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# Technical Report for

## Anderson, Mulholland & Associates

BMSMC, Building 5 Area, Humacao, PR

SM04.00.06

SGS Accutest Job Number: FA33878

Sampling Dates: 05/10/16 - 05/11/16

Report to:

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ATTN: Terry Taylor

Total number of pages in report: 425

Norm Farmer
Technical Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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# Sample Summary

Anderson, Mulholland & Associates

**Job No:** FA33878

BMSMC, Building 5 Area, Humacao, PR
Project No: SM04.00.06

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| FA33878-1 | 05/10/16 | 16:10 | TRL | 05/12/16 | AQ | Ground Water | RA19-GWS |
| FA33878-2 | 05/10/16 | 17:00 | TRL | 05/12/16 | AQ | Equipment Blank | BPEB-17 |
| FA33878-3 | 05/11/16 | 09:50 | TRL | 05/12/16 | SO | Soil | RA-19 (5-6) |
| FA33878-4 | 05/11/16 | 10:15 | TRL | 05/12/16 | SO | Soil | RA-19 (6.2-7.2) |
| FA33878-5 | 05/11/16 | 13:25 | TRL | 05/12/16 | AQ | Ground Water | S-39S |
| FA33878-6 | 05/11/16 | 15:00 | TRL | 05/12/16 | AQ | Ground Water | RA19-GWD |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

# SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Anderson, Mulholland & Associates **Job No:** FA33878

**Site:** BMSMC, Building 5 Area, Humacao, PR **Report Date:** 5/23/2016 10:32:50 AM

6 Sample(s) were collected on/ between 05/10/2016 and 05/11/2016 and were received at SGS Accutest Southeast (SASE) on 05/12/2016 properly preserved, at 3.8 Deg. C and intact. These Samples received an SASE job number of FA33878. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

## Volatiles by GCMS By Method SW846 8260C

**Matrix:** AQ **Batch ID:** VJ5295

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA33878-1MS, FA33878-1MSD were used as the QC samples indicated.

Matrix Spike/Matrix Spike Duplicate Recovery(s) for Ethylbenzene, Tert-Butyl Alcohol are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD. For method performance in a clean matrix, refer to Blank Spike.

**Matrix:** AQ **Batch ID:** VJ5296

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA33919-5MS, FA33919-5MSD were used as the QC samples indicated.

Matrix Spike/Matrix Spike Duplicate Recovery(s) for Tert-Butyl Alcohol are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD. For method performance in a clean matrix, refer to Blank Spike.

**Matrix:** SO **Batch ID:** VC4595

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA33788-8MS, FA33788-8MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,1-Dichloroethylene, Acetone, Carbon Disulfide, Chloroethane, Freon 113, Methyl Bromide,

Tert-Amyl Alcohol, Tert-Butyl Alcohol, Trichlorofluoromethane are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 1,1-Dichloroethylene, Acetone, Carbon Disulfide, Chloroethane, Methyl Bromide, Methylene Chloride, Tert-Butyl Alcohol, Trichlorofluoromethane are outside control limits. Probable cause is due to matrix

interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Tert-Amyl Alcohol are outside control limits for sample FA33788-8MSD. Probable cause is due to sample non-homogeneity.

## Wet Chemistry By Method SM19 2540G

**Matrix:** SO **Batch ID:** GN70973

Sample(s) FA33834-3DUP were used as the QC samples for Solids, Percent.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: May 23, 2016

Kim Benham, Client Services (signature on file)

# Manual Integration Summary

| Lab Sample ID | Analysis Type | File ID | Manual |
|---|---|---|---|
| FA33788-8MS | MSVOA | C0115594.D | Ethyl Alcohol |
| FA33788-8MSD | MSVOA | C0115595.D | Ethyl Alcohol |
| FA33878-1MS | MSVOA | J0976463.D | Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane |
| FA33878-1MSD | MSVOA | J0976464.D | Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane |
| FA33919-5MS | MSVOA | J0976488.D | Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane |
| FA33919-5MSD | MSVOA | J0976489.D | Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane |
| VC4595-IC4595 | MSVOA | C0115579.D | Ethyl Alcohol |
| VC4595-IC4595 | MSVOA | C0115580.D | Ethyl Alcohol |
| VC4595-IC4595 | MSVOA | C0115581.D | Ethyl Alcohol, Methyl Acetate |
| VC4595-IC4595 | MSVOA | C0115583.D | Ethyl Alcohol, Methyl Acetate |
| VC4595-IC4595 | MSVOA | C0115584.D | Ethyl Alcohol, Methyl Acetate |
| VC4595-IC4595 | MSVOA | C0115585.D | 1,4-Dioxane, Ethyl Alcohol, Methyl Acetate |
| VC4595-ICC4595 | MSVOA | C0115582.D | Ethyl Alcohol, Methyl Acetate |
| VC4595-ICV4595 | MSVOA | C0115587.D | Ethyl Alcohol |
| VJ5295-BS | MSVOA | J0976456.D | Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane |
| VJ5295-IC5295 | MSVOA | J0976447.D | Acrylonitrile, Trichlorofluoromethane |
| VJ5295-IC5295 | MSVOA | J0976448.D | Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane |
| VJ5295-IC5295 | MSVOA | J0976449.D | Carbon Tetrachloride, Trichlorofluoromethane |
| VJ5295-IC5295 | MSVOA | J0976450.D | Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane |
| VJ5295-IC5295 | MSVOA | J0976452.D | Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane |
| VJ5295-IC5295 | MSVOA | J0976453.D | Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane |
| VJ5295-ICC5295 | MSVOA | J0976451.D | Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane |
| VJ5295-ICV5295 | MSVOA | J0976455.D | Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane |
| VJ5296-BS | MSVOA | J0976469.D | Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane |
| VJ5296-CC5295 | MSVOA | J0976468.D | Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane |

**25 Manual Integrations were found for FA33878**

# Summary of Hits



**Job Number:** FA33878
**Account:** Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR
**Collected:** 05/10/16 thru 05/11/16

3

| Lab Sample ID<br>Analyte | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **FA33878-1** | **RA19-GWS** | | | | | |
| Ethylbenzene | | 44.7 | 1.0 | 0.25 | ug/l | SW846 8260C |
| Isopropylbenzene | | 23.0 | 1.0 | 0.33 | ug/l | SW846 8260C |
| 4-Methyl-2-pentanone (MIBK) | | 1.7 J | 5.0 | 1.4 | ug/l | SW846 8260C |
| m,p-Xylene | | 38.9 | 2.0 | 0.30 | ug/l | SW846 8260C |
| **FA33878-2** | **BPEB-17** | | | | | |
| No hits reported in this sample. | | | | | | |
| **FA33878-3** | **RA-19 (5-6)** | | | | | |
| Ethylbenzene | | 3990 | 360 | 78 | ug/kg | SW846 8260C |
| m,p-Xylene | | 6820 | 720 | 130 | ug/kg | SW846 8260C |
| **FA33878-4** | **RA-19 (6.2-7.2)** | | | | | |
| Ethylbenzene | | 4220 | 380 | 82 | ug/kg | SW846 8260C |
| m,p-Xylene | | 7410 | 750 | 130 | ug/kg | SW846 8260C |
| **FA33878-5** | **S-39S** | | | | | |
| Benzene | | 0.30 J | 1.0 | 0.20 | ug/l | SW846 8260C |
| Ethylbenzene | | 1670 | 100 | 25 | ug/l | SW846 8260C |
| Isopropylbenzene | | 21.5 | 1.0 | 0.33 | ug/l | SW846 8260C |
| Methyl Tert Butyl Ether | | 0.25 J | 1.0 | 0.20 | ug/l | SW846 8260C |
| Toluene | | 4.8 | 1.0 | 0.20 | ug/l | SW846 8260C |
| m,p-Xylene | | 5440 | 200 | 30 | ug/l | SW846 8260C |
| o-Xylene | | 395 | 100 | 26 | ug/l | SW846 8260C |
| **FA33878-6** | **RA19-GWD** | | | | | |
| Chlorobenzene | | 0.55 J | 1.0 | 0.20 | ug/l | SW846 8260C |
| Ethylbenzene | | 0.64 J | 1.0 | 0.25 | ug/l | SW846 8260C |
| Isopropylbenzene | | 2.4 | 1.0 | 0.33 | ug/l | SW846 8260C |
| Methyl Tert Butyl Ether | | 2.4 | 1.0 | 0.20 | ug/l | SW846 8260C |
| m,p-Xylene | | 0.87 J | 2.0 | 0.30 | ug/l | SW846 8260C |

## Sample Results

Report of Analysis

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# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | RA19-GWS | | |
| **Lab Sample ID:** | FA33878-1 | **Date Sampled:** | 05/10/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/12/16 |
| **Method:** | SW846 8260C | **Percent Solids:** | n/a |
| **Project:** | BMSMC, Building 5 Area, Humacao, PR | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | J0976458.D | 1 | 05/12/16 | DP | n/a | n/a | VJ5295 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (SOM02.0)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 25 | 10 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.20 | ug/l | |
| 100-44-7 | Benzyl Chloride | ND | 2.0 | 0.44 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.42 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.24 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.46 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 5.0 | 2.6 | ug/l | |
| 75-15-0 | Carbon Disulfide | ND | 2.0 | 0.23 | ug/l | |
| 56-23-5 | Carbon Tetrachloride | ND | 1.0 | 0.30 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.20 | ug/l | |
| 75-00-3 | Chloroethane | ND | 2.0 | 0.63 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.30 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 1.0 | 0.26 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.26 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | 0.81 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.33 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.50 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.27 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.24 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.39 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.26 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.28 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 1.0 | 0.22 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 1.0 | 0.31 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 1.0 | 0.33 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.34 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.26 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.25 | ug/l | |
| 100-41-4 | Ethylbenzene | 44.7 | 1.0 | 0.25 | ug/l | |
| 76-13-1 | Freon 113 | ND | 1.0 | 0.32 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 10 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | 23.0 | 1.0 | 0.33 | ug/l | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | RA19-GWS | | |
| **Lab Sample ID:** | FA33878-1 | **Date Sampled:** | 05/10/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/12/16 |
| **Method:** | SW846 8260C | **Percent Solids:** | n/a |
| **Project:** | BMSMC, Building 5 Area, Humacao, PR | | |

**VOA TCL List (SOM02.0)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 99-87-6 | p-Isopropyltoluene | ND | 1.0 | 0.28 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 20 | 5.0 | ug/l | |
| 74-83-9 | Methyl Bromide | ND | 2.0 | 0.50 | ug/l | |
| 74-87-3 | Methyl Chloride | ND | 2.0 | 0.50 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 1.0 | 0.23 | ug/l | |
| 75-09-2 | Methylene Chloride | ND | 5.0 | 2.0 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 1.7 | 5.0 | 1.4 | ug/l | J |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.20 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.24 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | ND | 20 | 6.0 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 20 | 9.1 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.33 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 1.0 | 0.30 | ug/l | |
| 109-99-9 | Tetrahydrofuran | ND | 5.0 | 1.4 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.20 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.0 | 0.51 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.20 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.37 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 1.0 | 0.27 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.50 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 1.0 | 0.20 | ug/l | |
| 75-01-4 | Vinyl Chloride | ND | 1.0 | 0.31 | ug/l | |
| | m,p-Xylene | 38.9 | 2.0 | 0.30 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.26 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 104% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 106% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 99% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 106% | | 83-118% |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | BPEB-17 | | |
| **Lab Sample ID:** | FA33878-2 | **Date Sampled:** | 05/10/16 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 05/12/16 |
| **Method:** | SW846 8260C | **Percent Solids:** | n/a |
| **Project:** | BMSMC, Building 5 Area, Humacao, PR | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | J0976459.D | 1 | 05/12/16 | DP | n/a | n/a | VJ5295 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (SOM02.0)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 25 | 10 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.20 | ug/l | |
| 100-44-7 | Benzyl Chloride | ND | 2.0 | 0.44 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.42 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.24 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.46 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 5.0 | 2.6 | ug/l | |
| 75-15-0 | Carbon Disulfide | ND | 2.0 | 0.23 | ug/l | |
| 56-23-5 | Carbon Tetrachloride | ND | 1.0 | 0.30 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.20 | ug/l | |
| 75-00-3 | Chloroethane | ND | 2.0 | 0.63 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.30 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 1.0 | 0.26 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.26 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | 0.81 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.33 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.50 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.27 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.24 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.39 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.26 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.28 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 1.0 | 0.22 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 1.0 | 0.31 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 1.0 | 0.33 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.34 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.26 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.25 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.25 | ug/l | |
| 76-13-1 | Freon 113 | ND | 1.0 | 0.32 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 10 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.33 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | BPEB-17 | | |
| **Lab Sample ID:** | FA33878-2 | **Date Sampled:** | 05/10/16 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 05/12/16 |
| **Method:** | SW846 8260C | **Percent Solids:** | n/a |
| **Project:** | BMSMC, Building 5 Area, Humacao, PR | | |

**VOA TCL List (SOM02.0)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 99-87-6 | p-Isopropyltoluene | ND | 1.0 | 0.28 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 20 | 5.0 | ug/l | |
| 74-83-9 | Methyl Bromide | ND | 2.0 | 0.50 | ug/l | |
| 74-87-3 | Methyl Chloride | ND | 2.0 | 0.50 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 1.0 | 0.23 | ug/l | |
| 75-09-2 | Methylene Chloride | ND | 5.0 | 2.0 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | 1.4 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.20 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.24 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | ND | 20 | 6.0 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 20 | 9.1 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.33 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 1.0 | 0.30 | ug/l | |
| 109-99-9 | Tetrahydrofuran | ND | 5.0 | 1.4 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.20 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.0 | 0.51 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.20 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.37 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 1.0 | 0.27 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.50 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 1.0 | 0.20 | ug/l | |
| 75-01-4 | Vinyl Chloride | ND | 1.0 | 0.31 | ug/l | |
| | m,p-Xylene | ND | 2.0 | 0.30 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.26 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 101% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 105% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 104% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 106% | | 83-118% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | RA-19 (5-6) | | |
| **Lab Sample ID:** | FA33878-3 | **Date Sampled:** | 05/11/16 |
| **Matrix:** | SO - Soil | **Date Received:** | 05/12/16 |
| **Method:** | SW846 8260C SW846 5035 | **Percent Solids:** | 78.5 |
| **Project:** | BMSMC, Building 5 Area, Humacao, PR | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | C0115596.D | 1 | 05/12/16 | EP | 05/12/16 11:51 | n/a | VC4595 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.49 g | 5.0 ml | 100 ul |
| Run #2 | | | |

**VOA TCL List (SOM02.0)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 3600 | 730 | ug/kg | |
| 71-43-2 | Benzene | ND | 360 | 90 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 360 | 100 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 360 | 80 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 360 | 72 | ug/kg | |
| 75-25-2 | Bromoform | ND | 360 | 72 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 1800 | 650 | ug/kg | |
| 75-15-0 | Carbon Disulfide | ND | 360 | 72 | ug/kg | |
| 56-23-5 | Carbon Tetrachloride | ND | 360 | 130 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 360 | 72 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 360 | 140 | ug/kg | |
| 67-66-3 | Chloroform | ND | 360 | 87 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 360 | 87 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 360 | 72 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 360 | 160 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 360 | 72 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 360 | 180 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 360 | 72 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 360 | 72 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 360 | 73 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 360 | 120 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 360 | 72 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 360 | 72 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 360 | 86 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 360 | 110 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 360 | 110 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 360 | 140 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 360 | 72 | ug/kg | |
| 100-41-4 | Ethylbenzene | 3990 | 360 | 78 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 360 | 84 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 1800 | 630 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 360 | 100 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | RA-19 (5-6) | | |
| **Lab Sample ID:** | FA33878-3 | **Date Sampled:** | 05/11/16 |
| **Matrix:** | SO - Soil | **Date Received:** | 05/12/16 |
| **Method:** | SW846 8260C SW846 5035 | **Percent Solids:** | 78.5 |
| **Project:** | BMSMC, Building 5 Area, Humacao, PR | | |

**VOA TCL List (SOM02.0)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 99-87-6 | p-Isopropyltoluene | ND | 360 | 72 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 1800 | 620 | ug/kg | |
| 74-83-9 | Methyl Bromide | ND | 360 | 180 | ug/kg | |
| 74-87-3 | Methyl Chloride | ND | 360 | 170 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 360 | 72 | ug/kg | |
| 75-09-2 | Methylene Chloride | ND | 720 | 290 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | ND | 1800 | 770 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 360 | 80 | ug/kg | |
| 100-42-5 | Styrene | ND | 360 | 72 | ug/kg | |
| 75-85-4 | Tert-Amyl Alcohol | ND | 3600 | 970 | ug/kg | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 3600 | 980 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 360 | 160 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 360 | 94 | ug/kg | |
| 109-99-9 | Tetrahydrofuran | ND | 720 | 260 | ug/kg | |
| 108-88-3 | Toluene | ND | 360 | 81 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 360 | 140 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 360 | 110 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 360 | 72 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 360 | 130 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 360 | 84 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 360 | 130 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 360 | 72 | ug/kg | |
| 75-01-4 | Vinyl Chloride | ND | 360 | 120 | ug/kg | |
| | m,p-Xylene | 6820 | 720 | 130 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 360 | 79 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 106% | | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% | | 72-135% |
| 2037-26-5 | Toluene-D8 | 97% | | 75-126% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 71-133% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | RA-19 (6.2-7.2) | | |
| **Lab Sample ID:** | FA33878-4 | **Date Sampled:** | 05/11/16 |
| **Matrix:** | SO - Soil | **Date Received:** | 05/12/16 |
| **Method:** | SW846 8260C SW846 5035 | **Percent Solids:** | 76.1 |
| **Project:** | BMSMC, Building 5 Area, Humacao, PR | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | C0115598.D | 1 | 05/12/16 | EP | 05/12/16 11:57 | n/a | VC4595 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.53 g | 5.0 ml | 100 ul |
| Run #2 | | | |

**VOA TCL List (SOM02.0)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 3800 | 770 | ug/kg | |
| 71-43-2 | Benzene | ND | 380 | 95 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 380 | 100 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 380 | 83 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 380 | 75 | ug/kg | |
| 75-25-2 | Bromoform | ND | 380 | 75 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 1900 | 680 | ug/kg | |
| 75-15-0 | Carbon Disulfide | ND | 380 | 75 | ug/kg | |
| 56-23-5 | Carbon Tetrachloride | ND | 380 | 130 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 380 | 75 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 380 | 150 | ug/kg | |
| 67-66-3 | Chloroform | ND | 380 | 92 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 380 | 92 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 380 | 75 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 380 | 170 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 380 | 75 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 380 | 190 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 380 | 75 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 380 | 75 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 380 | 77 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 380 | 130 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 380 | 75 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 380 | 75 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 380 | 90 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 380 | 110 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 380 | 120 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 380 | 140 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 380 | 75 | ug/kg | |
| 100-41-4 | Ethylbenzene | 4220 | 380 | 82 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 380 | 88 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 1900 | 660 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 380 | 110 | ug/kg | |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | RA-19 (6.2-7.2) | | |
| **Lab Sample ID:** | FA33878-4 | **Date Sampled:** | 05/11/16 |
| **Matrix:** | SO - Soil | **Date Received:** | 05/12/16 |
| **Method:** | SW846 8260C SW846 5035 | **Percent Solids:** | 76.1 |
| **Project:** | BMSMC, Building 5 Area, Humacao, PR | | |

**VOA TCL List (SOM02.0)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 99-87-6 | p-Isopropyltoluene | ND | 380 | 75 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 1900 | 640 | ug/kg | |
| 74-83-9 | Methyl Bromide | ND | 380 | 190 | ug/kg | |
| 74-87-3 | Methyl Chloride | ND | 380 | 180 | ug/kg | |
| 108-87-2 | Methylcyclohexane | ND | 380 | 75 | ug/kg | |
| 75-09-2 | Methylene Chloride | ND | 750 | 300 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | ND | 1900 | 800 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 380 | 83 | ug/kg | |
| 100-42-5 | Styrene | ND | 380 | 75 | ug/kg | |
| 75-85-4 | Tert-Amyl Alcohol | ND | 3800 | 1000 | ug/kg | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 3800 | 1000 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 380 | 170 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 380 | 98 | ug/kg | |
| 109-99-9 | Tetrahydrofuran | ND | 750 | 270 | ug/kg | |
| 108-88-3 | Toluene | ND | 380 | 85 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 380 | 150 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 380 | 110 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 380 | 75 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 380 | 140 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 380 | 88 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 380 | 140 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 380 | 75 | ug/kg | |
| 75-01-4 | Vinyl Chloride | ND | 380 | 130 | ug/kg | |
| | m,p-Xylene | 7410 | 750 | 130 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 380 | 83 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | | 72-135% |
| 2037-26-5 | Toluene-D8 | 96% | | 75-126% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 71-133% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | S-39S | | |
| **Lab Sample ID:** | FA33878-5 | **Date Sampled:** | 05/11/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/12/16 |
| **Method:** | SW846 8260C | **Percent Solids:** | n/a |
| **Project:** | BMSMC, Building 5 Area, Humacao, PR | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | J0976460.D | 1 | 05/12/16 | DP | n/a | n/a | VJ5295 |
| Run #2 | J0976474.D | 100 | 05/13/16 | DP | n/a | n/a | VJ5296 |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | 5.0 ml |

**VOA TCL List (SOM02.0)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 25 | 10 | ug/l | |
| 71-43-2 | Benzene | 0.30 | 1.0 | 0.20 | ug/l | J |
| 100-44-7 | Benzyl Chloride | ND | 2.0 | 0.44 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.42 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.24 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.46 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 5.0 | 2.6 | ug/l | |
| 75-15-0 | Carbon Disulfide | ND | 2.0 | 0.23 | ug/l | |
| 56-23-5 | Carbon Tetrachloride | ND | 1.0 | 0.30 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.20 | ug/l | |
| 75-00-3 | Chloroethane | ND | 2.0 | 0.63 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.30 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 1.0 | 0.26 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.26 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | 0.81 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.33 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.50 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.27 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.24 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.39 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.26 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.28 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 1.0 | 0.22 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 1.0 | 0.31 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 1.0 | 0.33 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.34 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.26 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.25 | ug/l | |
| 100-41-4 | Ethylbenzene | 1670 [a] | 100 | 25 | ug/l | |
| 76-13-1 | Freon 113 | ND | 1.0 | 0.32 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 10 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | 21.5 | 1.0 | 0.33 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | S-39S | | |
| **Lab Sample ID:** | FA33878-5 | **Date Sampled:** | 05/11/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/12/16 |
| **Method:** | SW846 8260C | **Percent Solids:** | n/a |
| **Project:** | BMSMC, Building 5 Area, Humacao, PR | | |

**VOA TCL List (SOM02.0)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 99-87-6 | p-Isopropyltoluene | ND | 1.0 | 0.28 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 20 | 5.0 | ug/l | |
| 74-83-9 | Methyl Bromide | ND | 2.0 | 0.50 | ug/l | |
| 74-87-3 | Methyl Chloride | ND | 2.0 | 0.50 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 1.0 | 0.23 | ug/l | |
| 75-09-2 | Methylene Chloride | ND | 5.0 | 2.0 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | 1.4 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 0.25 | 1.0 | 0.20 | ug/l | J |
| 100-42-5 | Styrene | ND | 1.0 | 0.24 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | ND | 20 | 6.0 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 20 | 9.1 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.33 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 1.0 | 0.30 | ug/l | |
| 109-99-9 | Tetrahydrofuran | ND | 5.0 | 1.4 | ug/l | |
| 108-88-3 | Toluene | 4.8 | 1.0 | 0.20 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.0 | 0.51 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.20 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.37 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 1.0 | 0.27 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.50 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 1.0 | 0.20 | ug/l | |
| 75-01-4 | Vinyl Chloride | ND | 1.0 | 0.31 | ug/l | |
| | m,p-Xylene | 5440 [a] | 200 | 30 | ug/l | |
| 95-47-6 | o-Xylene | 395 [a] | 100 | 26 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 104% | 102% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 105% | 79-125% |
| 2037-26-5 | Toluene-D8 | 97% | 101% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 109% | 103% | 83-118% |

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | RA19-GWD | | |
| **Lab Sample ID:** | FA33878-6 | **Date Sampled:** | 05/11/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/12/16 |
| **Method:** | SW846 8260C | **Percent Solids:** | n/a |
| **Project:** | BMSMC, Building 5 Area, Humacao, PR | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | J0976471.D | 1 | 05/13/16 | DP | n/a | n/a | VJ5296 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA TCL List (SOM02.0)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 25 | 10 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.20 | ug/l | |
| 100-44-7 | Benzyl Chloride | ND | 2.0 | 0.44 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.42 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.24 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.46 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 5.0 | 2.6 | ug/l | |
| 75-15-0 | Carbon Disulfide | ND | 2.0 | 0.23 | ug/l | |
| 56-23-5 | Carbon Tetrachloride | ND | 1.0 | 0.30 | ug/l | |
| 108-90-7 | Chlorobenzene | 0.55 | 1.0 | 0.20 | ug/l | J |
| 75-00-3 | Chloroethane | ND | 2.0 | 0.63 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.30 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 1.0 | 0.26 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.26 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | 0.81 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.33 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.50 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.27 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.24 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.39 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.26 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.28 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 1.0 | 0.22 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 1.0 | 0.31 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 1.0 | 0.33 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.34 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.26 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.25 | ug/l | |
| 100-41-4 | Ethylbenzene | 0.64 | 1.0 | 0.25 | ug/l | J |
| 76-13-1 | Freon 113 | ND | 1.0 | 0.32 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 10 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | 2.4 | 1.0 | 0.33 | ug/l | |

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | RA19-GWD | | |
| **Lab Sample ID:** | FA33878-6 | **Date Sampled:** | 05/11/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 05/12/16 |
| **Method:** | SW846 8260C | **Percent Solids:** | n/a |
| **Project:** | BMSMC, Building 5 Area, Humacao, PR | | |

**VOA TCL List (SOM02.0)**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 99-87-6 | p-Isopropyltoluene | ND | 1.0 | 0.28 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 20 | 5.0 | ug/l | |
| 74-83-9 | Methyl Bromide | ND | 2.0 | 0.50 | ug/l | |
| 74-87-3 | Methyl Chloride | ND | 2.0 | 0.50 | ug/l | |
| 108-87-2 | Methylcyclohexane | ND | 1.0 | 0.23 | ug/l | |
| 75-09-2 | Methylene Chloride | ND | 5.0 | 2.0 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | 1.4 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | 2.4 | 1.0 | 0.20 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.24 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | ND | 20 | 6.0 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 20 | 9.1 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.33 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 1.0 | 0.30 | ug/l | |
| 109-99-9 | Tetrahydrofuran | ND | 5.0 | 1.4 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.20 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.0 | 0.51 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.20 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.37 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 1.0 | 0.27 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.50 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 1.0 | 0.20 | ug/l | |
| 75-01-4 | Vinyl Chloride | ND | 1.0 | 0.31 | ug/l | |
| | m,p-Xylene | 0.87 | 2.0 | 0.30 | ug/l | J |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.26 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 103% | | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | | 79-125% |
| 2037-26-5 | Toluene-D8 | 102% | | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 106% | | 83-118% |

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS ACCUTEST - FL

# CHAIN OF CUSTODY

FA33878

PAGE 1 OF 1

SGS Accutest ~~Dayton~~ Florida
~~2235 Route 130, Dayton, NJ 08810~~ 4405 Vineland Orlando FL
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

SGS Accutest Quote # 809960569680

Bottle Order Control #

SGS Accutest Job# Get from NJ

**Client / Reporting Information**

Company Name: Anderson Mulholland Assoc. Inc.
Street Address: 2700 Westchester
City State Zip: Purchase, NY
Project Contact: Terry Taylor
E-mail:
Phone #: 914-251-0400
Fax #:
Sampler(s) Name(s): N. Rivera, T. Taylor, D. Lindstrand
Phone #:

**Project Information**

Project Name: BMS Release Assessment
Street:
City State:
Project #:
Client Purchase Order #:
Project Manager:

**Billing Information (if different from Report to)**

Company Name:
Street Address:
City State Zip:
Attention:

**Requested Analysis (see TEST CODE sheet)**

VOC - Method 8260C

**Matrix Codes**

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

| SGS Accutest Sample # | Field ID / Point of Collection | MEOH/DI Vial # | Collection Date | Collection Time | Sampled by | Matrix | # of bottles | HCl | NaOH | HNO3 | H2SO4 | NONE | DI Water | MEOH | ENCORE | VOC - Method 8260C | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | RA19-GWS | | 05/10/16 | 1610 | TT | GW | 3 | 3 | | | | | | | | X | |
| 2 | BPEB-17 | | 05/10/16 | 1700 | TT | EB | 3 | 3 | | | | | | | | X | |
| 3 | RA-19 (5-6) | | 05/11/16 | 0950 | TT | SO | 4 | | | | | 1 | | | 3 | X | |
| 4 | RA-19 (6.2-7.2) | | 05/11/16 | 1015 | TT | SO | 4 | | | | | 1 | | | 3 | X | |
| 5 | S-39S | | 05/11/16 | 1325 | NR | GW | 3 | 3 | | | | | | | | X | |
| 6 | RA19-GWD | | 05/11/16 | 1500 | TT | GW | 3 | 3 | | | | | | | | X | |

**Turnaround Time (Business days)**

Approved By (SGS Accutest PM): / Date:

- [X] Std. 10 Business Days For soil samples
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [X] 1 Day RUSH For aqueous samples
- [ ] other

Emergency & Rush T/A data available VIA Lablink

**Data Deliverable Information**

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

**Comments / Special Instructions**

Add to Report: Tetrahydrofuran, p-Isopropyl toluene, 1-2-4 Trimethyl benzene, Benzylchloride, Tetra amyl chloride

Sample inventory is verified upon receipt in the Laboratory

**Sample Custody must be documented below each time samples change possession, including courier delivery.**

| Relinquished by Sampler: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
|---|---|---|---|---|---|
| 1 [signature] | 05/11/16 1500 | 1 FedEx | 2 Fx | | 2 [signature] 5/12/16 915 |
| Relinquished by Sampler: 3 | Date Time: | Received By: 3 | Relinquished By: 4 | Date Time: | Received By: 4 |
| Relinquished by: 5 | Date Time: | Received By: 5 | Custody Seal # 372 [ ] Intact [ ] Not intact | Preserved where applicable [ ] | On Ice [ ] (1) Cooler Temp. 3.8 |

5.1 5

FA33878: Chain of Custody
Page 1 of 3

# ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA33878 CLIENT: Anderson Mulholland PROJECT: BMS Release

DATE/TIME RECEIVED: 5/12/16 915 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8099 6056 9680

## COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

## TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.0
- [ ] OBSERVED TEMPS: 3.8
- [ ] CORRECTED TEMPS: 3.8 (USED FOR LIMS)

## TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [x] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

## SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

## MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM 6

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ?

TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify)

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 5/12/16 REVIEWER SIGNATURE/DATE 5/12/16

NF 11/15 RECEIPTLOG040416.xls

5.1 5

**FA33878: Chain of Custody**
**Page 2 of 3**

FedEx Express International Air Waybill

Origin Copy

1 From
Date 05 11 16. Sender's FedEx Account Number
Sender's Name David Lindstrand Phone 787-487-4290
Company Anderson Mulholland Assoc. Inc.
Address BMS in care of
Address Rd #3, KM 77.5
City Humacao State Province PR
Country USA ZIP Postal Code 00791

2 To
Recipient's Name Sample Receiving Phone 407425-6700
Company SGS Accutest Florida
Address 4405 Vineland Rd.
Address Dept./Floor
City Orlando State Province FL
Country USA ZIP Postal Code 32811
Recipient's Tax ID Number for Customs Purposes e.g. GST/NRC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information
Total Packages 1 Total Weight 13.0 lbs kg
For EU Only: Tick here if goods are not in free circulation and provide C.I.
DIM 15, 11, 11 in cm

| Commodity Description | Harmonized Code | Country of Manufacture | Value for Customs |
|---|---|---|---|
| Groundwater samples | | USA | 0 |
| soil samples | | USA | 0 |

Has EEI been filed in AES? For U.S. Export Only: Check One
No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
No EEI required, enter exemption number:
Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:
Total Declared Value for Carriage NCV
Total Value for Customs (Specify Currency) 30

4 Express Package Service
1 [X] FedEx Intl. Priority
6 [ ] FedEx Intl. First Available to select locations.
3 [ ] FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.
Packages up to 150 lbs./68 kg For packages over 150 lbs./68 kg, use the FedEx Expanded Service Intl. Air Waybill.
Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

5 Packaging
6 [ ] FedEx Envelope 2 [ ] FedEx Pak 3 [ ] FedEx Box 4 [ ] FedEx Tube
[X] Other
*These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.
PW [ ] FedEx 10kg Box* PX [ ] FedEx 25kg Box*

6 Special Handling
1 [ ] HOLD at FedEx Location 3 [ ] SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

7 Payment
Bill transportation charges to: Complete payment options for both transportation charges and duties and taxes.
Enter FedEx Acct. No. or Credit Card No. below.
1 [ ] Sender Acct. No. in Section 1 will be billed. 2 [ ] Recipient 3 [X] Third Party 4 [ ] Credit Card 5 [ ] Cash Check/Cheque
FedEx Acct. No. 1147-5950-3 [redacted]
Credit Card Exp. Date Total Transportation
Bill duties and taxes to: ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance. Specify Currency
Enter FedEx Acct. No. below.
1 [ ] Sender Acct. No. in Section 1 will be billed. 2 [ ] Recipient 3 [ ] Third Party 5 [ ] Cash Check/Cheque
FedEx Acct. No.

8 Your Internal Billing Reference
BMS Release Assess
First 24 characters will appear on invoice.

9 Required Signature
Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. WARNING: These commodities, technology or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.
Sender's Signature:
This is not authorization to deliver this shipment without a recipient signature.
Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.
Recipient's Signature:

FedEx Tracking Number 8099 6056 9680 0402

568
PART 156610 Rev. Date 11/08 ©1994–2008 FedEx PRINTED IN U.S.A. RRDA
Form ID No.
RRDA

| Origin Station ID | Country Code/Destination Station ID | URSA Routing | Handling Units |
|---|---|---|---|
| NYDC | FHTXH | 7XXT | Total Volume (cm) |

Received At: 1 [ ] Reg. Stop 2 [ ] On-Call Stop 3 [ ] Drop Box 4 [X] Other 5 [ ]
Base Charges Declared



FA33878: Chain of Custody
Page 3 of 3

# GC/MS Volatiles

## QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

# Method Blank Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VJ5295-MB | J0976457.D | 1 | 05/12/16 | DP | n/a | n/a | VJ5295 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-1, FA33878-2, FA33878-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 25 | 10 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.20 | ug/l | |
| 100-44-7 | Benzyl Chloride | ND | 2.0 | 0.44 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.42 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.24 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.46 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 5.0 | 2.6 | ug/l | |
| 75-15-0 | Carbon Disulfide | ND | 2.0 | 0.23 | ug/l | |
| 56-23-5 | Carbon Tetrachloride | ND | 1.0 | 0.30 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.20 | ug/l | |
| 75-00-3 | Chloroethane | ND | 2.0 | 0.63 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.30 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 1.0 | 0.26 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.26 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | 0.81 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.33 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.50 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.27 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.24 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.39 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.26 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.28 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 1.0 | 0.22 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 1.0 | 0.31 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 1.0 | 0.33 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.34 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.26 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.25 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.25 | ug/l | |
| 76-13-1 | Freon 113 | ND | 1.0 | 0.32 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 10 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.33 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 1.0 | 0.28 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 20 | 5.0 | ug/l | |
| 74-83-9 | Methyl Bromide | ND | 2.0 | 0.50 | ug/l | |
| 74-87-3 | Methyl Chloride | ND | 2.0 | 0.50 | ug/l | |

# Method Blank Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VJ5295-MB | J0976457.D | 1 | 05/12/16 | DP | n/a | n/a | VJ5295 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-1, FA33878-2, FA33878-5

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-87-2 | Methylcyclohexane | ND | 1.0 | 0.23 | ug/l | |
| 75-09-2 | Methylene Chloride | ND | 5.0 | 2.0 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | 1.4 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.20 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.24 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | ND | 20 | 6.0 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 20 | 9.1 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.33 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 1.0 | 0.30 | ug/l | |
| 109-99-9 | Tetrahydrofuran | ND | 5.0 | 1.4 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.20 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.68 | 2.0 | 0.51 | ug/l | J |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.20 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.37 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 1.0 | 0.27 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.50 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 1.0 | 0.20 | ug/l | |
| 75-01-4 | Vinyl Chloride | ND | 1.0 | 0.31 | ug/l | |
| | m,p-Xylene | ND | 2.0 | 0.30 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.26 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 102% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 103% | 79-125% |
| 2037-26-5 | Toluene-D8 | 103% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 104% | 83-118% |

# Method Blank Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VC4595-MB | C0115589.D | 1 | 05/12/16 | EP | n/a | n/a | VC4595 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-3, FA33878-4

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 50 | 10 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.0 | 1.3 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 5.0 | 1.4 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 1.1 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 1.0 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.0 | 1.0 | ug/kg | |
| 78-93-3 | 2-Butanone (MEK) | ND | 25 | 9.1 | ug/kg | |
| 75-15-0 | Carbon Disulfide | ND | 5.0 | 1.0 | ug/kg | |
| 56-23-5 | Carbon Tetrachloride | ND | 5.0 | 1.8 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 1.0 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.0 | 2.0 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.0 | 1.2 | ug/kg | |
| 110-82-7 | Cyclohexane | ND | 5.0 | 1.2 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 1.0 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | 2.2 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | 1.0 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 2.5 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 5.0 | 1.0 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 5.0 | 1.0 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 5.0 | 1.0 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 1.7 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 1.0 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.0 | 1.0 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.0 | 1.2 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.0 | 1.5 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 1.6 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 1.9 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 1.0 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 1.1 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.0 | 1.2 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 25 | 8.7 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | 1.4 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 1.0 | ug/kg | |
| 79-20-9 | Methyl Acetate | ND | 25 | 8.6 | ug/kg | |
| 74-83-9 | Methyl Bromide | ND | 5.0 | 2.6 | ug/kg | |
| 74-87-3 | Methyl Chloride | ND | 5.0 | 2.4 | ug/kg | |

# Method Blank Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VC4595-MB | C0115589.D | 1 | 05/12/16 | EP | n/a | n/a | VC4595 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-3, FA33878-4

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-87-2 | Methylcyclohexane | ND | 5.0 | 1.0 | ug/kg | |
| 75-09-2 | Methylene Chloride | ND | 10 | 4.0 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | ND | 25 | 11 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.0 | 1.1 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.0 | 1.0 | ug/kg | |
| 75-85-4 | Tert-Amyl Alcohol | ND | 50 | 14 | ug/kg | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 50 | 14 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | 2.2 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 1.3 | ug/kg | |
| 109-99-9 | Tetrahydrofuran | ND | 10 | 3.6 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.0 | 1.1 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 2.0 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 1.5 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 1.0 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 1.8 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 1.2 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 1.9 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.0 | 1.0 | ug/kg | |
| 75-01-4 | Vinyl Chloride | ND | 5.0 | 1.7 | ug/kg | |
| | m,p-Xylene | ND | 10 | 1.8 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.0 | 1.1 | ug/kg | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 113% | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 109% | 72-135% |
| 2037-26-5 | Toluene-D8 | 94% | 75-126% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 71-133% |

# Method Blank Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VJ5296-MB | J0976470.D | 1 | 05/13/16 | DP | n/a | n/a | VJ5296 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-5, FA33878-6

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 25 | 10 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.20 | ug/l | |
| 100-44-7 | Benzyl Chloride | ND | 2.0 | 0.44 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.42 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.24 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.46 | ug/l | |
| 78-93-3 | 2-Butanone (MEK) | ND | 5.0 | 2.6 | ug/l | |
| 75-15-0 | Carbon Disulfide | ND | 2.0 | 0.23 | ug/l | |
| 56-23-5 | Carbon Tetrachloride | ND | 1.0 | 0.30 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.20 | ug/l | |
| 75-00-3 | Chloroethane | ND | 2.0 | 0.63 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.30 | ug/l | |
| 110-82-7 | Cyclohexane | ND | 1.0 | 0.26 | ug/l | |
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.26 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | 0.81 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 2.0 | 0.33 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 2.0 | 0.50 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 1.0 | 0.27 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 1.0 | 0.24 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 1.0 | 0.39 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.26 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.28 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 1.0 | 0.22 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 1.0 | 0.31 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 1.0 | 0.33 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.34 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.26 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.25 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.25 | ug/l | |
| 76-13-1 | Freon 113 | ND | 1.0 | 0.32 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 10 | 2.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.33 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 1.0 | 0.28 | ug/l | |
| 79-20-9 | Methyl Acetate | ND | 20 | 5.0 | ug/l | |
| 74-83-9 | Methyl Bromide | ND | 2.0 | 0.50 | ug/l | |
| 74-87-3 | Methyl Chloride | ND | 2.0 | 0.50 | ug/l | |

# Method Blank Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VJ5296-MB | J0976470.D | 1 | 05/13/16 | DP | n/a | n/a | VJ5296 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-5, FA33878-6

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-87-2 | Methylcyclohexane | ND | 1.0 | 0.23 | ug/l | |
| 75-09-2 | Methylene Chloride | ND | 5.0 | 2.0 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | ND | 5.0 | 1.4 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.20 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.24 | ug/l | |
| 75-85-4 | Tert-Amyl Alcohol | ND | 20 | 6.0 | ug/l | |
| 75-65-0 | Tert-Butyl Alcohol | ND | 20 | 9.1 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.33 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 1.0 | 0.30 | ug/l | |
| 109-99-9 | Tetrahydrofuran | ND | 5.0 | 1.4 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.20 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 2.0 | 0.51 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 2.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.20 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.37 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 1.0 | 0.27 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.50 | ug/l | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 1.0 | 0.20 | ug/l | |
| 75-01-4 | Vinyl Chloride | ND | 1.0 | 0.31 | ug/l | |
| | m,p-Xylene | ND | 2.0 | 0.30 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.26 | ug/l | |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 102% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102% | 79-125% |
| 2037-26-5 | Toluene-D8 | 104% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 104% | 83-118% |

# Blank Spike Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VJ5295-BS | J0976456.D | 1 | 05/12/16 | DP | n/a | n/a | VJ5295 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-1, FA33878-2, FA33878-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 125 | 113 | 90 | 50-147 |
| 71-43-2 | Benzene | 25 | 24.5 | 98 | 81-122 |
| 100-44-7 | Benzyl Chloride | 25 | 21.4 | 86 | 54-122 |
| 74-97-5 | Bromochloromethane | 25 | 22.2 | 89 | 76-123 |
| 75-27-4 | Bromodichloromethane | 25 | 23.6 | 94 | 79-123 |
| 75-25-2 | Bromoform | 25 | 21.9 | 88 | 66-123 |
| 78-93-3 | 2-Butanone (MEK) | 125 | 107 | 86 | 56-143 |
| 75-15-0 | Carbon Disulfide | 25 | 25.8 | 103 | 66-148 |
| 56-23-5 | Carbon Tetrachloride | 25 | 24.8 | 99 | 76-136 |
| 108-90-7 | Chlorobenzene | 25 | 24.7 | 99 | 82-124 |
| 75-00-3 | Chloroethane | 25 | 32.6 | 130 | 62-144 |
| 67-66-3 | Chloroform | 25 | 24.4 | 98 | 80-124 |
| 110-82-7 | Cyclohexane | 25 | 26.0 | 104 | 73-138 |
| 124-48-1 | Dibromochloromethane | 25 | 22.5 | 90 | 78-122 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 25 | 21.6 | 86 | 64-123 |
| 106-93-4 | 1,2-Dibromoethane | 25 | 22.6 | 90 | 75-120 |
| 75-71-8 | Dichlorodifluoromethane | 25 | 34.5 | 138 | 42-167 |
| 95-50-1 | 1,2-Dichlorobenzene | 25 | 23.3 | 93 | 82-124 |
| 541-73-1 | 1,3-Dichlorobenzene | 25 | 24.3 | 97 | 84-125 |
| 106-46-7 | 1,4-Dichlorobenzene | 25 | 23.6 | 94 | 78-120 |
| 75-34-3 | 1,1-Dichloroethane | 25 | 26.0 | 104 | 81-122 |
| 107-06-2 | 1,2-Dichloroethane | 25 | 23.3 | 93 | 75-125 |
| 75-35-4 | 1,1-Dichloroethylene | 25 | 28.1 | 112 | 78-137 |
| 156-59-2 | cis-1,2-Dichloroethylene | 25 | 23.7 | 95 | 78-120 |
| 156-60-5 | trans-1,2-Dichloroethylene | 25 | 29.1 | 116 | 76-127 |
| 78-87-5 | 1,2-Dichloropropane | 25 | 23.0 | 92 | 76-124 |
| 10061-01-5 | cis-1,3-Dichloropropene | 25 | 24.0 | 96 | 75-118 |
| 10061-02-6 | trans-1,3-Dichloropropene | 25 | 25.5 | 102 | 80-120 |
| 100-41-4 | Ethylbenzene | 25 | 25.0 | 100 | 81-121 |
| 76-13-1 | Freon 113 | 25 | 25.9 | 104 | 72-134 |
| 591-78-6 | 2-Hexanone | 125 | 108 | 86 | 61-129 |
| 98-82-8 | Isopropylbenzene | 25 | 25.9 | 104 | 83-132 |
| 99-87-6 | p-Isopropyltoluene | 25 | 25.4 | 102 | 79-130 |
| 79-20-9 | Methyl Acetate | 125 | 108 | 86 | 65-126 |
| 74-83-9 | Methyl Bromide | 25 | 31.2 | 125 | 59-143 |
| 74-87-3 | Methyl Chloride | 25 | 31.6 | 126 | 50-159 |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VJ5295-BS | J0976456.D | 1 | 05/12/16 | DP | n/a | n/a | VJ5295 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-1, FA33878-2, FA33878-5

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 108-87-2 | Methylcyclohexane | 25 | 27.2 | 109 | 76-129 |
| 75-09-2 | Methylene Chloride | 25 | 23.2 | 93 | 69-135 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 125 | 103 | 82 | 66-122 |
| 1634-04-4 | Methyl Tert Butyl Ether | 25 | 21.1 | 84 | 72-117 |
| 100-42-5 | Styrene | 25 | 24.9 | 100 | 78-119 |
| 75-85-4 | Tert-Amyl Alcohol | 250 | 214 | 86 | 65-124 |
| 75-65-0 | Tert-Butyl Alcohol | 250 | 236 | 94 | 63-129 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 25 | 21.7 | 87 | 72-120 |
| 127-18-4 | Tetrachloroethylene | 25 | 26.8 | 107 | 76-135 |
| 109-99-9 | Tetrahydrofuran | 25 | 22.6 | 90 | 56-122 |
| 108-88-3 | Toluene | 25 | 24.9 | 100 | 80-120 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 25 | 23.8 | 95 | 68-131 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 25 | 23.4 | 94 | 73-129 |
| 71-55-6 | 1,1,1-Trichloroethane | 25 | 23.9 | 96 | 75-130 |
| 79-00-5 | 1,1,2-Trichloroethane | 25 | 23.0 | 92 | 76-119 |
| 79-01-6 | Trichloroethylene | 25 | 25.5 | 102 | 81-126 |
| 75-69-4 | Trichlorofluoromethane | 25 | 33.2 | 133 | 71-156 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 25 | 24.2 | 97 | 79-120 |
| 75-01-4 | Vinyl Chloride | 25 | 31.9 | 128 | 69-159 |
| | m,p-Xylene | 50 | 50.4 | 101 | 79-126 |
| 95-47-6 | o-Xylene | 25 | 25.2 | 101 | 80-127 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | 79-125% |
| 2037-26-5 | Toluene-D8 | 100% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 83-118% |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VC4595-BS | C0115588.D | 1 | 05/12/16 | EP | n/a | n/a | VC4595 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-3, FA33878-4

| CAS No. | Compound | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 250 | 215 | 86 | 61-152 |
| 71-43-2 | Benzene | 50 | 50.3 | 101 | 76-126 |
| 100-44-7 | Benzyl Chloride | 50 | 51.3 | 103 | 65-126 |
| 74-97-5 | Bromochloromethane | 50 | 46.7 | 93 | 77-120 |
| 75-27-4 | Bromodichloromethane | 50 | 50.8 | 102 | 74-130 |
| 75-25-2 | Bromoform | 50 | 53.5 | 107 | 76-127 |
| 78-93-3 | 2-Butanone (MEK) | 250 | 216 | 86 | 75-137 |
| 75-15-0 | Carbon Disulfide | 50 | 51.1 | 102 | 72-122 |
| 56-23-5 | Carbon Tetrachloride | 50 | 50.8 | 102 | 78-133 |
| 108-90-7 | Chlorobenzene | 50 | 52.2 | 104 | 81-129 |
| 75-00-3 | Chloroethane | 50 | 46.6 | 93 | 68-133 |
| 67-66-3 | Chloroform | 50 | 52.0 | 104 | 72-123 |
| 110-82-7 | Cyclohexane | 50 | 48.0 | 96 | 73-126 |
| 124-48-1 | Dibromochloromethane | 50 | 54.7 | 109 | 76-127 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 50 | 47.3 | 95 | 70-137 |
| 106-93-4 | 1,2-Dibromoethane | 50 | 52.6 | 105 | 77-126 |
| 75-71-8 | Dichlorodifluoromethane | 50 | 52.3 | 105 | 68-168 |
| 95-50-1 | 1,2-Dichlorobenzene | 50 | 53.3 | 107 | 80-129 |
| 541-73-1 | 1,3-Dichlorobenzene | 50 | 52.8 | 106 | 81-129 |
| 106-46-7 | 1,4-Dichlorobenzene | 50 | 52.2 | 104 | 76-130 |
| 75-34-3 | 1,1-Dichloroethane | 50 | 53.6 | 107 | 73-125 |
| 107-06-2 | 1,2-Dichloroethane | 50 | 49.1 | 98 | 74-128 |
| 75-35-4 | 1,1-Dichloroethylene | 50 | 52.2 | 104 | 81-136 |
| 156-59-2 | cis-1,2-Dichloroethylene | 50 | 48.8 | 98 | 74-126 |
| 156-60-5 | trans-1,2-Dichloroethylene | 50 | 57.7 | 115 | 70-127 |
| 78-87-5 | 1,2-Dichloropropane | 50 | 47.7 | 95 | 74-125 |
| 10061-01-5 | cis-1,3-Dichloropropene | 50 | 56.8 | 114 | 80-123 |
| 10061-02-6 | trans-1,3-Dichloropropene | 50 | 56.8 | 114 | 75-131 |
| 100-41-4 | Ethylbenzene | 50 | 53.3 | 107 | 77-123 |
| 76-13-1 | Freon 113 | 50 | 50.5 | 101 | 71-129 |
| 591-78-6 | 2-Hexanone | 250 | 223 | 89 | 72-133 |
| 98-82-8 | Isopropylbenzene | 50 | 54.6 | 109 | 80-136 |
| 99-87-6 | p-Isopropyltoluene | 50 | 47.5 | 95 | 77-131 |
| 79-20-9 | Methyl Acetate | 250 | 250 | 100 | 67-137 |
| 74-83-9 | Methyl Bromide | 50 | 51.4 | 103 | 65-139 |
| 74-87-3 | Methyl Chloride | 50 | 55.5 | 111 | 71-144 |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VC4595-BS | C0115588.D | 1 | 05/12/16 | EP | n/a | n/a | VC4595 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-3, FA33878-4

| CAS No. | Compound | Spike ug/kg | BSP ug/kg | BSP % | Limits |
|---|---|---|---|---|---|
| 108-87-2 | Methylcyclohexane | 50 | 50.2 | 100 | 75-128 |
| 75-09-2 | Methylene Chloride | 50 | 54.0 | 108 | 74-137 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 250 | 244 | 98 | 76-132 |
| 1634-04-4 | Methyl Tert Butyl Ether | 50 | 49.0 | 98 | 77-120 |
| 100-42-5 | Styrene | 50 | 53.7 | 107 | 78-125 |
| 75-85-4 | Tert-Amyl Alcohol | 500 | 561 | 112 | 69-130 |
| 75-65-0 | Tert-Butyl Alcohol | 500 | 561 | 112 | 58-136 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 50 | 46.3 | 93 | 71-126 |
| 127-18-4 | Tetrachloroethylene | 50 | 49.8 | 100 | 79-130 |
| 109-99-9 | Tetrahydrofuran | 50 | 55.0 | 110 | 70-133 |
| 108-88-3 | Toluene | 50 | 51.8 | 104 | 76-124 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 50 | 51.3 | 103 | 77-128 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50 | 53.6 | 107 | 78-130 |
| 71-55-6 | 1,1,1-Trichloroethane | 50 | 49.2 | 98 | 70-129 |
| 79-00-5 | 1,1,2-Trichloroethane | 50 | 50.2 | 100 | 74-124 |
| 79-01-6 | Trichloroethylene | 50 | 50.6 | 101 | 75-128 |
| 75-69-4 | Trichlorofluoromethane | 50 | 49.4 | 99 | 73-145 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 50 | 46.6 | 93 | 74-123 |
| 75-01-4 | Vinyl Chloride | 50 | 54.3 | 109 | 76-141 |
| | m,p-Xylene | 100 | 112 | 112 | 80-128 |
| 95-47-6 | o-Xylene | 50 | 53.2 | 106 | 80-132 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | 72-135% |
| 2037-26-5 | Toluene-D8 | 100% | 75-126% |
| 460-00-4 | 4-Bromofluorobenzene | 103% | 71-133% |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VJ5296-BS | J0976469.D | 1 | 05/13/16 | DP | n/a | n/a | VJ5296 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-5, FA33878-6

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 67-64-1 | Acetone | 125 | 119 | 95 | 50-147 |
| 71-43-2 | Benzene | 25 | 24.1 | 96 | 81-122 |
| 100-44-7 | Benzyl Chloride | 25 | 22.0 | 88 | 54-122 |
| 74-97-5 | Bromochloromethane | 25 | 21.8 | 87 | 76-123 |
| 75-27-4 | Bromodichloromethane | 25 | 22.9 | 92 | 79-123 |
| 75-25-2 | Bromoform | 25 | 23.3 | 93 | 66-123 |
| 78-93-3 | 2-Butanone (MEK) | 125 | 117 | 94 | 56-143 |
| 75-15-0 | Carbon Disulfide | 25 | 25.6 | 102 | 66-148 |
| 56-23-5 | Carbon Tetrachloride | 25 | 25.7 | 103 | 76-136 |
| 108-90-7 | Chlorobenzene | 25 | 24.3 | 97 | 82-124 |
| 75-00-3 | Chloroethane | 25 | 27.9 | 112 | 62-144 |
| 67-66-3 | Chloroform | 25 | 24.0 | 96 | 80-124 |
| 110-82-7 | Cyclohexane | 25 | 26.6 | 106 | 73-138 |
| 124-48-1 | Dibromochloromethane | 25 | 23.4 | 94 | 78-122 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 25 | 22.6 | 90 | 64-123 |
| 106-93-4 | 1,2-Dibromoethane | 25 | 22.6 | 90 | 75-120 |
| 75-71-8 | Dichlorodifluoromethane | 25 | 31.8 | 127 | 42-167 |
| 95-50-1 | 1,2-Dichlorobenzene | 25 | 23.0 | 92 | 82-124 |
| 541-73-1 | 1,3-Dichlorobenzene | 25 | 23.8 | 95 | 84-125 |
| 106-46-7 | 1,4-Dichlorobenzene | 25 | 23.0 | 92 | 78-120 |
| 75-34-3 | 1,1-Dichloroethane | 25 | 26.1 | 104 | 81-122 |
| 107-06-2 | 1,2-Dichloroethane | 25 | 23.0 | 92 | 75-125 |
| 75-35-4 | 1,1-Dichloroethylene | 25 | 28.0 | 112 | 78-137 |
| 156-59-2 | cis-1,2-Dichloroethylene | 25 | 24.3 | 97 | 78-120 |
| 156-60-5 | trans-1,2-Dichloroethylene | 25 | 28.2 | 113 | 76-127 |
| 78-87-5 | 1,2-Dichloropropane | 25 | 22.7 | 91 | 76-124 |
| 10061-01-5 | cis-1,3-Dichloropropene | 25 | 23.3 | 93 | 75-118 |
| 10061-02-6 | trans-1,3-Dichloropropene | 25 | 25.9 | 104 | 80-120 |
| 100-41-4 | Ethylbenzene | 25 | 24.6 | 98 | 81-121 |
| 76-13-1 | Freon 113 | 25 | 25.0 | 100 | 72-134 |
| 591-78-6 | 2-Hexanone | 125 | 112 | 90 | 61-129 |
| 98-82-8 | Isopropylbenzene | 25 | 25.6 | 102 | 83-132 |
| 99-87-6 | p-Isopropyltoluene | 25 | 26.6 | 106 | 79-130 |
| 79-20-9 | Methyl Acetate | 125 | 117 | 94 | 65-126 |
| 74-83-9 | Methyl Bromide | 25 | 26.7 | 107 | 59-143 |
| 74-87-3 | Methyl Chloride | 25 | 29.1 | 116 | 50-159 |

* = Outside of Control Limits.

# Blank Spike Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| VJ5296-BS | J0976469.D | 1 | 05/13/16 | DP | n/a | n/a | VJ5296 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-5, FA33878-6

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | Limits |
|---|---|---|---|---|---|
| 108-87-2 | Methylcyclohexane | 25 | 26.9 | 108 | 76-129 |
| 75-09-2 | Methylene Chloride | 25 | 25.7 | 103 | 69-135 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 125 | 108 | 86 | 66-122 |
| 1634-04-4 | Methyl Tert Butyl Ether | 25 | 21.8 | 87 | 72-117 |
| 100-42-5 | Styrene | 25 | 24.9 | 100 | 78-119 |
| 75-85-4 | Tert-Amyl Alcohol | 250 | 206 | 82 | 65-124 |
| 75-65-0 | Tert-Butyl Alcohol | 250 | 240 | 96 | 63-129 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 25 | 22.5 | 90 | 72-120 |
| 127-18-4 | Tetrachloroethylene | 25 | 26.9 | 108 | 76-135 |
| 109-99-9 | Tetrahydrofuran | 25 | 24.3 | 97 | 56-122 |
| 108-88-3 | Toluene | 25 | 24.8 | 99 | 80-120 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 25 | 23.4 | 94 | 68-131 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 25 | 22.9 | 92 | 73-129 |
| 71-55-6 | 1,1,1-Trichloroethane | 25 | 23.9 | 96 | 75-130 |
| 79-00-5 | 1,1,2-Trichloroethane | 25 | 23.4 | 94 | 76-119 |
| 79-01-6 | Trichloroethylene | 25 | 25.3 | 101 | 81-126 |
| 75-69-4 | Trichlorofluoromethane | 25 | 30.9 | 124 | 71-156 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 25 | 23.8 | 95 | 79-120 |
| 75-01-4 | Vinyl Chloride | 25 | 29.2 | 117 | 69-159 |
| | m,p-Xylene | 50 | 50.0 | 100 | 79-126 |
| 95-47-6 | o-Xylene | 25 | 25.2 | 101 | 80-127 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | 79-125% |
| 2037-26-5 | Toluene-D8 | 100% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 83-118% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| FA33878-1MS | J0976463.D | 1 | 05/12/16 | DP | n/a | n/a | VJ5295 |
| FA33878-1MSD | J0976464.D | 1 | 05/12/16 | DP | n/a | n/a | VJ5295 |
| FA33878-1 | J0976458.D | 1 | 05/12/16 | DP | n/a | n/a | VJ5295 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-1, FA33878-2, FA33878-5

| CAS No. | Compound | FA33878-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 125 | 109 | 87 | 125 | 114 | 91 | 4 | 50-147/21 |
| 71-43-2 | Benzene | ND | | 25 | 26.0 | 104 | 25 | 25.2 | 101 | 3 | 81-122/14 |
| 100-44-7 | Benzyl Chloride | ND | | 25 | 21.4 | 86 | 25 | 21.0 | 84 | 2 | 54-122/18 |
| 74-97-5 | Bromochloromethane | ND | | 25 | 22.3 | 89 | 25 | 21.8 | 87 | 2 | 76-123/14 |
| 75-27-4 | Bromodichloromethane | ND | | 25 | 23.0 | 92 | 25 | 21.5 | 86 | 7 | 79-123/19 |
| 75-25-2 | Bromoform | ND | | 25 | 18.4 | 74 | 25 | 18.6 | 74 | 1 | 66-123/21 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 125 | 112 | 90 | 125 | 116 | 93 | 4 | 56-143/18 |
| 75-15-0 | Carbon Disulfide | ND | | 25 | 23.5 | 94 | 25 | 22.3 | 89 | 5 | 66-148/23 |
| 56-23-5 | Carbon Tetrachloride | ND | | 25 | 25.7 | 103 | 25 | 23.6 | 94 | 9 | 76-136/23 |
| 108-90-7 | Chlorobenzene | ND | | 25 | 26.3 | 105 | 25 | 26.1 | 104 | 1 | 82-124/14 |
| 75-00-3 | Chloroethane | ND | | 25 | 31.2 | 125 | 25 | 28.2 | 113 | 10 | 62-144/20 |
| 67-66-3 | Chloroform | ND | | 25 | 24.8 | 99 | 25 | 24.2 | 97 | 2 | 80-124/15 |
| 110-82-7 | Cyclohexane | ND | | 25 | 26.4 | 106 | 25 | 26.2 | 105 | 1 | 73-138/18 |
| 124-48-1 | Dibromochloromethane | ND | | 25 | 19.7 | 79 | 25 | 19.7 | 79 | 0 | 78-122/19 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 25 | 21.2 | 85 | 25 | 22.4 | 90 | 6 | 64-123/18 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 25 | 23.6 | 94 | 25 | 23.8 | 95 | 1 | 75-120/13 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 25 | 30.8 | 123 | 25 | 29.3 | 117 | 5 | 42-167/19 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 25 | 23.6 | 94 | 25 | 23.6 | 94 | 0 | 82-124/14 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 25 | 24.2 | 97 | 25 | 24.3 | 97 | 0 | 84-125/14 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 25 | 23.7 | 95 | 25 | 23.7 | 95 | 0 | 78-120/15 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 25 | 27.4 | 110 | 25 | 26.6 | 106 | 3 | 81-122/15 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 25 | 25.6 | 102 | 25 | 24.2 | 97 | 6 | 75-125/14 |
| 75-35-4 | 1,1-Dichloroethylene | ND | | 25 | 28.8 | 115 | 25 | 28.6 | 114 | 1 | 78-137/18 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | | 25 | 24.4 | 98 | 25 | 24.2 | 97 | 1 | 78-120/15 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | | 25 | 29.3 | 117 | 25 | 28.2 | 113 | 4 | 76-127/17 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 25 | 24.2 | 97 | 25 | 23.1 | 92 | 5 | 76-124/14 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 25 | 22.9 | 92 | 25 | 21.5 | 86 | 6 | 75-118/23 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 25 | 24.4 | 98 | 25 | 23.6 | 94 | 3 | 80-120/22 |
| 100-41-4 | Ethylbenzene | 44.7 | | 25 | 78.1 | 134* | 25 | 75.9 | 125* | 3 | 81-121/14 |
| 76-13-1 | Freon 113 | ND | | 25 | 26.5 | 106 | 25 | 24.5 | 98 | 8 | 72-134/20 |
| 591-78-6 | 2-Hexanone | ND | | 125 | 108 | 86 | 125 | 116 | 93 | 7 | 61-129/18 |
| 98-82-8 | Isopropylbenzene | 23.0 | | 25 | 53.3 | 121 | 25 | 52.0 | 116 | 2 | 83-132/15 |
| 99-87-6 | p-Isopropyltoluene | ND | | 25 | 25.2 | 101 | 25 | 24.5 | 98 | 3 | 79-130/16 |
| 79-20-9 | Methyl Acetate | ND | | 125 | 109 | 87 | 125 | 115 | 92 | 5 | 65-126/18 |
| 74-83-9 | Methyl Bromide | ND | | 25 | 28.0 | 112 | 25 | 26.5 | 106 | 6 | 59-143/19 |
| 74-87-3 | Methyl Chloride | ND | | 25 | 29.6 | 118 | 25 | 28.3 | 113 | 4 | 50-159/19 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| FA33878-1MS | J0976463.D | 1 | 05/12/16 | DP | n/a | n/a | VJ5295 |
| FA33878-1MSD | J0976464.D | 1 | 05/12/16 | DP | n/a | n/a | VJ5295 |
| FA33878-1 | J0976458.D | 1 | 05/12/16 | DP | n/a | n/a | VJ5295 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-1, FA33878-2, FA33878-5

| CAS No. | Compound | FA33878-1 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 108-87-2 | Methylcyclohexane | ND | | 25 | 27.5 | 110 | 25 | 26.4 | 106 | 4 | 76-129/17 |
| 75-09-2 | Methylene Chloride | ND | | 25 | 24.5 | 98 | 25 | 23.8 | 95 | 3 | 69-135/16 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 1.7 | J | 125 | 108 | 85 | 125 | 115 | 91 | 6 | 66-122/16 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 25 | 22.5 | 90 | 25 | 22.5 | 90 | 0 | 72-117/14 |
| 100-42-5 | Styrene | ND | | 25 | 22.4 | 90 | 25 | 21.1 | 84 | 6 | 78-119/23 |
| 75-85-4 | Tert-Amyl Alcohol | ND | | 250 | 199 | 80 | 250 | 213 | 85 | 7 | 65-124/23 |
| 75-65-0 | Tert-Butyl Alcohol | ND | | 250 | 343 | 137* | 250 | 365 | 146* | 6 | 63-129/27 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 25 | 23.9 | 96 | 25 | 24.7 | 99 | 3 | 72-120/14 |
| 127-18-4 | Tetrachloroethylene | ND | | 25 | 24.7 | 99 | 25 | 24.7 | 99 | 0 | 76-135/16 |
| 109-99-9 | Tetrahydrofuran | ND | | 25 | 23.5 | 94 | 25 | 24.2 | 97 | 3 | 56-122/21 |
| 108-88-3 | Toluene | ND | | 25 | 24.8 | 99 | 25 | 24.9 | 100 | 0 | 80-120/14 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 25 | 21.9 | 88 | 25 | 23.7 | 95 | 8 | 68-131/25 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 25 | 22.3 | 89 | 25 | 22.8 | 91 | 2 | 73-129/20 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 25 | 24.8 | 99 | 25 | 23.9 | 96 | 4 | 75-130/16 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 25 | 24.3 | 97 | 25 | 24.9 | 100 | 2 | 76-119/14 |
| 79-01-6 | Trichloroethylene | ND | | 25 | 26.0 | 104 | 25 | 26.1 | 104 | 0 | 81-126/15 |
| 75-69-4 | Trichlorofluoromethane | ND | | 25 | 31.6 | 126 | 25 | 28.6 | 114 | 10 | 71-156/21 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 25 | 23.3 | 93 | 25 | 22.4 | 90 | 4 | 79-120/18 |
| 75-01-4 | Vinyl Chloride | ND | | 25 | 29.8 | 119 | 25 | 27.0 | 108 | 10 | 69-159/18 |
| | m,p-Xylene | 38.9 | | 50 | 99.8 | 122 | 50 | 96.6 | 115 | 3 | 79-126/15 |
| 95-47-6 | o-Xylene | ND | | 25 | 25.8 | 103 | 25 | 25.8 | 103 | 0 | 80-127/14 |

| CAS No. | Surrogate Recoveries | MS | MSD | FA33878-1 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | 97% | 104% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102% | 101% | 106% | 79-125% |
| 2037-26-5 | Toluene-D8 | 95% | 97% | 99% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 101% | 106% | 83-118% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| FA33788-8MS | C0115594.D | 1 | 05/12/16 | EP | n/a | n/a | VC4595 |
| FA33788-8MSD | C0115595.D | 1 | 05/12/16 | EP | n/a | n/a | VC4595 |
| FA33788-8 | C0115592.D | 1 | 05/12/16 | EP | n/a | n/a | VC4595 |
| FA33788-8 | C0115593.D | 1 | 05/12/16 | EP | n/a | n/a | VC4595 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-3, FA33878-4

| CAS No. | Compound | FA33788-8 ug/kg | Q | Spike ug/kg | MS ug/kg | MS % | Spike ug/kg | MSD ug/kg | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | 34.7 | J | 18100 | 10300 | 57* | 18100 | 10700 | 59* | 4 | 61-152/27 |
| 71-43-2 | Benzene | ND | | 3620 | 3410 | 94 | 3620 | 3480 | 96 | 2 | 76-126/26 |
| 100-44-7 | Benzyl Chloride | ND | | 3620 | 3220 | 89 | 3620 | 3200 | 88 | 1 | 65-126/31 |
| 74-97-5 | Bromochloromethane | ND | | 3620 | 3230 | 89 | 3620 | 3490 | 96 | 8 | 77-120/24 |
| 75-27-4 | Bromodichloromethane | ND | | 3620 | 3260 | 90 | 3620 | 3350 | 92 | 3 | 74-130/25 |
| 75-25-2 | Bromoform | ND | | 3620 | 3670 | 101 | 3620 | 3670 | 101 | 0 | 76-127/26 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 18100 | 14000 | 77 | 18100 | 14200 | 78 | 1 | 75-137/25 |
| 75-15-0 | Carbon Disulfide | ND | | 3620 | 2380 | 66* | 3620 | 2450 | 68* | 3 | 72-122/29 |
| 56-23-5 | Carbon Tetrachloride | ND | | 3620 | 2900 | 80 | 3620 | 3010 | 83 | 4 | 78-133/29 |
| 108-90-7 | Chlorobenzene | ND | | 3620 | 3700 | 102 | 3620 | 3610 | 100 | 2 | 81-129/29 |
| 75-00-3 | Chloroethane | ND | | 3620 | 1270 | 35* | 3620 | 1280 | 35* | 1 | 68-133/29 |
| 67-66-3 | Chloroform | ND | | 3620 | 3180 | 88 | 3620 | 3330 | 92 | 5 | 72-123/26 |
| 110-82-7 | Cyclohexane | ND | | 3620 | 3050 | 84 | 3620 | 3230 | 89 | 6 | 73-126/32 |
| 124-48-1 | Dibromochloromethane | ND | | 3620 | 3660 | 101 | 3620 | 3680 | 102 | 1 | 76-127/27 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 3620 | 2610 | 72 | 3620 | 2710 | 75 | 4 | 70-137/29 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 3620 | 3820 | 105 | 3620 | 3620 | 100 | 5 | 77-126/26 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 3620 | 2920 | 81 | 3620 | 3000 | 83 | 3 | 68-168/29 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 3620 | 3720 | 103 | 3620 | 3800 | 105 | 2 | 80-129/32 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 3620 | 3830 | 106 | 3620 | 3740 | 103 | 2 | 81-129/33 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 3620 | 3710 | 102 | 3620 | 3740 | 103 | 1 | 76-130/32 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 3620 | 3270 | 90 | 3620 | 3410 | 94 | 4 | 73-125/27 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 3620 | 3080 | 85 | 3620 | 3090 | 85 | 0 | 74-128/23 |
| 75-35-4 | 1,1-Dichloroethylene | ND | | 3620 | 2550 | 70* | 3620 | 2590 | 71* | 2 | 81-136/28 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | | 3620 | 3300 | 91 | 3620 | 3470 | 96 | 5 | 74-126/26 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | | 3620 | 2990 | 83 | 3620 | 3010 | 83 | 1 | 70-127/27 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 3620 | 3380 | 93 | 3620 | 3330 | 92 | 1 | 74-125/25 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 3620 | 4220 | 116 | 3620 | 3980 | 110 | 6 | 80-123/26 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 3620 | 4040 | 111 | 3620 | 3790 | 105 | 6 | 75-131/28 |
| 100-41-4 | Ethylbenzene | ND | | 3620 | 3370 | 93 | 3620 | 3500 | 97 | 4 | 77-123/31 |
| 76-13-1 | Freon 113 | ND | | 3620 | 2530 | 70* | 3620 | 2590 | 71 | 2 | 71-129/30 |
| 591-78-6 | 2-Hexanone | ND | | 18100 | 13500 | 74 | 18100 | 13700 | 76 | 1 | 72-133/26 |
| 98-82-8 | Isopropylbenzene | 101 | | 3620 | 3440 | 92 | 3620 | 3560 | 95 | 3 | 80-136/32 |
| 99-87-6 | p-Isopropyltoluene | ND | | 3620 | 3140 | 87 | 3620 | 3230 | 89 | 3 | 77-131/34 |
| 79-20-9 | Methyl Acetate | ND | | 18100 | 18000 | 99 | 18100 | 18500 | 102 | 3 | 67-137/30 |
| 74-83-9 | Methyl Bromide | ND | | 3620 | 2190 | 60* | 3620 | 2230 | 62* | 2 | 65-139/31 |
| 74-87-3 | Methyl Chloride | ND | | 3620 | 3490 | 96 | 3620 | 3590 | 99 | 3 | 71-144/27 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| FA33788-8MS | C0115594.D | 1 | 05/12/16 | EP | n/a | n/a | VC4595 |
| FA33788-8MSD | C0115595.D | 1 | 05/12/16 | EP | n/a | n/a | VC4595 |
| FA33788-8 | C0115592.D | 1 | 05/12/16 | EP | n/a | n/a | VC4595 |
| FA33788-8 | C0115593.D | 1 | 05/12/16 | EP | n/a | n/a | VC4595 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-3, FA33878-4

| CAS No. | Compound | FA33788-8 ug/kg | Q | Spike ug/kg | MS ug/kg | MS % | Spike ug/kg | MSD ug/kg | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 108-87-2 | Methylcyclohexane | 6.3 | | 3620 | 3230 | 89 | 3620 | 3320 | 91 | 3 | 75-128/31 |
| 75-09-2 | Methylene Chloride | 5.2 | J | 3620 | 2720 | 75 | 3620 | 2630 | 72* | 3 | 74-137/28 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 93.8 | | 18100 | 13800 | 76 | 18100 | 15300 | 84 | 10 | 76-132/26 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 3620 | 2850 | 79 | 3620 | 2940 | 81 | 3 | 77-120/24 |
| 100-42-5 | Styrene | ND | | 3620 | 3780 | 104 | 3620 | 3730 | 103 | 1 | 78-125/30 |
| 75-85-4 | Tert-Amyl Alcohol | ND | | 36200 | 77200 | 213* | 36200 | 34700 | 96 | 76* | 69-130/32 |
| 75-65-0 | Tert-Butyl Alcohol | ND | | 36200 | 66000 | 182* | 36200 | 48200 | 133* | 31 | 74-126/32 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 3620 | 3090 | 85 | 3620 | 3230 | 89 | 4 | 71-126/30 |
| 127-18-4 | Tetrachloroethylene | ND | | 3620 | 3670 | 101 | 3620 | 3970 | 110 | 8 | 79-130/31 |
| 109-99-9 | Tetrahydrofuran | ND | | 3620 | 3450 | 95 | 3620 | 3570 | 99 | 3 | 70-133/26 |
| 108-88-3 | Toluene | ND | | 3620 | 3450 | 95 | 3620 | 3540 | 98 | 3 | 76-124/30 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 3620 | 3540 | 98 | 3620 | 3790 | 105 | 7 | 77-128/35 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 3620 | 3700 | 102 | 3620 | 3900 | 108 | 5 | 78-130/34 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 3620 | 2740 | 76 | 3620 | 2850 | 79 | 4 | 70-129/27 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 3620 | 3480 | 96 | 3620 | 3520 | 97 | 1 | 74-124/28 |
| 79-01-6 | Trichloroethylene | ND | | 3620 | 3370 | 93 | 3620 | 3410 | 94 | 1 | 75-128/27 |
| 75-69-4 | Trichlorofluoromethane | ND | | 3620 | 903 | 25* | 3620 | 1080 | 30* | 18 | 73-145/31 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 3620 | 3050 | 84 | 3620 | 3160 | 87 | 4 | 74-123/34 |
| 75-01-4 | Vinyl Chloride | ND | | 3620 | 3490 | 96 | 3620 | 3590 | 99 | 3 | 76-141/27 |
| | m,p-Xylene | ND | | 7250 | 6950 | 96 | 7250 | 7130 | 98 | 3 | 80-128/30 |
| 95-47-6 | o-Xylene | ND | | 3620 | 3310 | 91 | 3620 | 3460 | 95 | 4 | 80-132/30 |

| CAS No. | Surrogate Recoveries | MS | MSD | FA33788-8 | FA33788-8 | Limits |
|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 91% | 93% | 113% | 105% | 75-124% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 80% | 82% | 111% | 96% | 72-135% |
| 2037-26-5 | Toluene-D8 | 93% | 97% | 106% | 90% | 75-126% |
| 460-00-4 | 4-Bromofluorobenzene | 109% | 109% | 92% | 98% | 71-133% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| FA33919-5MS | J0976488.D | 1 | 05/13/16 | DP | n/a | n/a | VJ5296 |
| FA33919-5MSD | J0976489.D | 1 | 05/13/16 | DP | n/a | n/a | VJ5296 |
| FA33919-5 | J0976483.D | 1 | 05/13/16 | DP | n/a | n/a | VJ5296 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-5, FA33878-6

| CAS No. | Compound | FA33919-5 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | | 125 | 103 | 82 | 125 | 108 | 86 | 5 | 50-147/21 |
| 71-43-2 | Benzene | ND | | 25 | 24.0 | 96 | 25 | 23.5 | 94 | 2 | 81-122/14 |
| 100-44-7 | Benzyl Chloride | ND | | 25 | 18.2 | 73 | 25 | 18.1 | 72 | 1 | 54-122/18 |
| 74-97-5 | Bromochloromethane | ND | | 25 | 20.9 | 84 | 25 | 22.0 | 88 | 5 | 76-123/14 |
| 75-27-4 | Bromodichloromethane | ND | | 25 | 22.5 | 90 | 25 | 21.0 | 84 | 7 | 79-123/19 |
| 75-25-2 | Bromoform | ND | | 25 | 17.4 | 70 | 25 | 18.6 | 74 | 7 | 66-123/21 |
| 78-93-3 | 2-Butanone (MEK) | ND | | 125 | 111 | 89 | 125 | 118 | 94 | 6 | 56-143/18 |
| 75-15-0 | Carbon Disulfide | ND | | 25 | 22.2 | 89 | 25 | 21.3 | 85 | 4 | 66-148/23 |
| 56-23-5 | Carbon Tetrachloride | ND | | 25 | 24.3 | 97 | 25 | 22.2 | 89 | 9 | 76-136/23 |
| 108-90-7 | Chlorobenzene | ND | | 25 | 23.9 | 96 | 25 | 23.9 | 96 | 0 | 82-124/14 |
| 75-00-3 | Chloroethane | ND | | 25 | 31.0 | 124 | 25 | 27.8 | 111 | 11 | 62-144/20 |
| 67-66-3 | Chloroform | ND | | 25 | 23.9 | 96 | 25 | 23.7 | 95 | 1 | 80-124/15 |
| 110-82-7 | Cyclohexane | ND | | 25 | 24.8 | 99 | 25 | 24.5 | 98 | 1 | 73-138/18 |
| 124-48-1 | Dibromochloromethane | ND | | 25 | 20.2 | 81 | 25 | 20.3 | 81 | 0 | 78-122/19 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 25 | 21.0 | 84 | 25 | 21.8 | 87 | 4 | 64-123/18 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 25 | 22.0 | 88 | 25 | 22.2 | 89 | 1 | 75-120/13 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 25 | 28.4 | 114 | 25 | 26.5 | 106 | 7 | 42-167/19 |
| 95-50-1 | 1,2-Dichlorobenzene | ND | | 25 | 22.6 | 90 | 25 | 22.2 | 89 | 2 | 82-124/14 |
| 541-73-1 | 1,3-Dichlorobenzene | ND | | 25 | 23.1 | 92 | 25 | 23.3 | 93 | 1 | 84-125/14 |
| 106-46-7 | 1,4-Dichlorobenzene | ND | | 25 | 22.2 | 89 | 25 | 22.8 | 91 | 3 | 78-120/15 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 25 | 25.6 | 102 | 25 | 25.4 | 102 | 1 | 81-122/15 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 25 | 23.4 | 94 | 25 | 22.6 | 90 | 3 | 75-125/14 |
| 75-35-4 | 1,1-Dichloroethylene | ND | | 25 | 26.9 | 108 | 25 | 26.5 | 106 | 1 | 78-137/18 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | | 25 | 22.5 | 90 | 25 | 23.0 | 92 | 2 | 78-120/15 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | | 25 | 27.4 | 110 | 25 | 27.0 | 108 | 1 | 76-127/17 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 25 | 22.4 | 90 | 25 | 23.0 | 92 | 3 | 76-124/14 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 25 | 20.7 | 83 | 25 | 20.1 | 80 | 3 | 75-118/23 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 25 | 22.9 | 92 | 25 | 22.5 | 90 | 2 | 80-120/22 |
| 100-41-4 | Ethylbenzene | 5.6 | | 25 | 30.4 | 99 | 25 | 30.0 | 98 | 1 | 81-121/14 |
| 76-13-1 | Freon 113 | ND | | 25 | 23.8 | 95 | 25 | 22.2 | 89 | 7 | 72-134/20 |
| 591-78-6 | 2-Hexanone | ND | | 125 | 109 | 87 | 125 | 116 | 93 | 6 | 61-129/18 |
| 98-82-8 | Isopropylbenzene | 0.47 | J | 25 | 25.2 | 99 | 25 | 25.0 | 98 | 1 | 83-132/15 |
| 99-87-6 | p-Isopropyltoluene | ND | | 25 | 25.7 | 103 | 25 | 25.4 | 102 | 1 | 79-130/16 |
| 79-20-9 | Methyl Acetate | ND | | 125 | 104 | 83 | 125 | 109 | 87 | 5 | 65-126/18 |
| 74-83-9 | Methyl Bromide | ND | | 25 | 26.8 | 107 | 25 | 26.1 | 104 | 3 | 59-143/19 |
| 74-87-3 | Methyl Chloride | ND | | 25 | 27.9 | 112 | 25 | 26.8 | 107 | 4 | 50-159/19 |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| FA33919-5MS | J0976488.D | 1 | 05/13/16 | DP | n/a | n/a | VJ5296 |
| FA33919-5MSD | J0976489.D | 1 | 05/13/16 | DP | n/a | n/a | VJ5296 |
| FA33919-5 | J0976483.D | 1 | 05/13/16 | DP | n/a | n/a | VJ5296 |

**The QC reported here applies to the following samples:** **Method:** SW846 8260C

FA33878-5, FA33878-6

| CAS No. | Compound | FA33919-5 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 108-87-2 | Methylcyclohexane | ND | | 25 | 25.9 | 104 | 25 | 25.2 | 101 | 3 | 76-129/17 |
| 75-09-2 | Methylene Chloride | ND | | 25 | 22.8 | 91 | 25 | 23.8 | 95 | 4 | 69-135/16 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | ND | | 125 | 107 | 86 | 125 | 114 | 91 | 6 | 66-122/16 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | | 25 | 20.4 | 82 | 25 | 21.1 | 84 | 3 | 72-117/14 |
| 100-42-5 | Styrene | ND | | 25 | 23.0 | 92 | 25 | 23.1 | 92 | 0 | 78-119/23 |
| 75-85-4 | Tert-Amyl Alcohol | ND | | 250 | 208 | 83 | 250 | 207 | 83 | 0 | 65-124/23 |
| 75-65-0 | Tert-Butyl Alcohol | ND | | 250 | 352 | 141* | 250 | 350 | 140* | 1 | 63-129/27 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | | 25 | 22.2 | 89 | 25 | 23.4 | 94 | 5 | 72-120/14 |
| 127-18-4 | Tetrachloroethylene | ND | | 25 | 24.1 | 96 | 25 | 24.1 | 96 | 0 | 76-135/16 |
| 109-99-9 | Tetrahydrofuran | ND | | 25 | 22.4 | 90 | 25 | 24.0 | 96 | 7 | 56-122/21 |
| 108-88-3 | Toluene | ND | | 25 | 23.6 | 94 | 25 | 24.1 | 96 | 2 | 80-120/14 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | | 25 | 20.6 | 82 | 25 | 22.6 | 90 | 9 | 68-131/25 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | | 25 | 20.6 | 82 | 25 | 21.4 | 86 | 4 | 73-129/20 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | | 25 | 23.2 | 93 | 25 | 22.5 | 90 | 3 | 75-130/16 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | | 25 | 22.3 | 89 | 25 | 23.4 | 94 | 5 | 76-119/14 |
| 79-01-6 | Trichloroethylene | ND | | 25 | 24.7 | 99 | 25 | 25.0 | 100 | 1 | 81-126/15 |
| 75-69-4 | Trichlorofluoromethane | ND | | 25 | 30.2 | 121 | 25 | 28.0 | 112 | 8 | 71-156/21 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | | 25 | 23.1 | 92 | 25 | 23.1 | 92 | 0 | 79-120/18 |
| 75-01-4 | Vinyl Chloride | ND | | 25 | 28.1 | 112 | 25 | 26.5 | 106 | 6 | 69-159/18 |
| | m,p-Xylene | 13.3 | | 50 | 64.5 | 102 | 50 | 63.4 | 100 | 2 | 79-126/15 |
| 95-47-6 | o-Xylene | 0.85 | J | 25 | 25.0 | 97 | 25 | 25.4 | 98 | 2 | 80-127/14 |

| CAS No. | Surrogate Recoveries | MS | MSD | FA33919-5 | Limits |
|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | 99% | 102% | 83-118% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | 102% | 105% | 79-125% |
| 2037-26-5 | Toluene-D8 | 97% | 99% | 105% | 85-112% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 100% | 104% | 83-118% |

* = Outside of Control Limits.

# Instrument Performance Check (BFB)



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

**Sample:** VC4595-BFB
**Lab File ID:** C0115578.D
**Instrument ID:** GCMSC
**Injection Date:** 05/12/16
**Injection Time:** 11:34

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 40501 | 18.6 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 111235 | 51.1 | | Pass |
| 95 | Base peak, 100% relative abundance | 217536 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 15132 | 6.96 | | Pass |
| 173 | Less than 2.0% of mass 174 | 778 | 0.36 | (0.58) [a] | Pass |
| 174 | 50.0 - 100.0% of mass 95 | 133296 | 61.3 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 9706 | 4.46 | (7.28) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 127989 | 58.8 | (96.0) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 8524 | 3.92 | (6.66) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VC4595-IC4595 | C0115579.D | 05/12/16 | 11:59 | 00:25 | Initial cal 1 |
| VC4595-IC4595 | C0115580.D | 05/12/16 | 12:25 | 00:51 | Initial cal 2 |
| VC4595-IC4595 | C0115581.D | 05/12/16 | 12:51 | 01:17 | Initial cal 3 |
| VC4595-ICC4595 | C0115582.D | 05/12/16 | 13:16 | 01:42 | Initial cal 4 |
| VC4595-IC4595 | C0115583.D | 05/12/16 | 13:42 | 02:08 | Initial cal 5 |
| VC4595-IC4595 | C0115584.D | 05/12/16 | 14:07 | 02:33 | Initial cal 6 |
| VC4595-IC4595 | C0115585.D | 05/12/16 | 14:33 | 02:59 | Initial cal 7 |
| VC4595-ICV4595 | C0115587.D | 05/12/16 | 15:25 | 03:51 | Initial cal verification 4 |
| VC4595-BS | C0115588.D | 05/12/16 | 15:50 | 04:16 | Blank Spike |
| VC4595-MB | C0115589.D | 05/12/16 | 16:16 | 04:42 | Method Blank |
| ZZZZZZ | C0115590.D | 05/12/16 | 16:42 | 05:08 | (unrelated sample) |
| ZZZZZZ | C0115591.D | 05/12/16 | 17:07 | 05:33 | (unrelated sample) |
| FA33788-8 | C0115592.D | 05/12/16 | 17:33 | 05:59 | (used for QC only; not part of job FA33878) |
| FA33788-8 | C0115593.D | 05/12/16 | 17:58 | 06:24 | (used for QC only; not part of job FA33878) |
| FA33788-8MS | C0115594.D | 05/12/16 | 18:24 | 06:50 | Matrix Spike |
| FA33788-8MSD | C0115595.D | 05/12/16 | 18:50 | 07:16 | Matrix Spike Duplicate |
| FA33878-3 | C0115596.D | 05/12/16 | 19:15 | 07:41 | RA-19 (5-6) |
| FA33878-4 | C0115598.D | 05/12/16 | 20:07 | 08:33 | RA-19 (6.2-7.2) |
| VC4595-ECC4595 | C0115600.D | 05/12/16 | 20:58 | 09:24 | Ending cal 4 |

# Instrument Performance Check (BFB)



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

**Sample:** VJ5295-BFB
**Lab File ID:** J0976446.D
**Instrument ID:** GCMSJ
**Injection Date:** 05/12/16
**Injection Time:** 09:48

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 49040 | 17.7 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 142333 | 51.3 | | Pass |
| 95 | Base peak, 100% relative abundance | 277525 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 19428 | 7.00 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 100.0% of mass 95 | 224981 | 81.1 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 16995 | 6.12 | (7.55) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 214451 | 77.3 | (95.3) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 14970 | 5.39 | (6.98) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VJ5295-IC5295 | J0976447.D | 05/12/16 | 10:20 | 00:32 | Initial cal 1 |
| VJ5295-IC5295 | J0976448.D | 05/12/16 | 10:43 | 00:55 | Initial cal 2 |
| VJ5295-IC5295 | J0976449.D | 05/12/16 | 11:06 | 01:18 | Initial cal 3 |
| VJ5295-IC5295 | J0976450.D | 05/12/16 | 11:29 | 01:41 | Initial cal 4 |
| VJ5295-ICC5295 | J0976451.D | 05/12/16 | 11:51 | 02:03 | Initial cal 5 |
| VJ5295-IC5295 | J0976452.D | 05/12/16 | 12:14 | 02:26 | Initial cal 6 |
| VJ5295-IC5295 | J0976453.D | 05/12/16 | 12:37 | 02:49 | Initial cal 7 |
| VJ5295-ICV5295 | J0976455.D | 05/12/16 | 13:22 | 03:34 | Initial cal verification 5 |
| VJ5295-BS | J0976456.D | 05/12/16 | 13:45 | 03:57 | Blank Spike |
| VJ5295-MB | J0976457.D | 05/12/16 | 14:08 | 04:20 | Method Blank |
| FA33878-1 | J0976458.D | 05/12/16 | 14:55 | 05:07 | RA19-GWS |
| FA33878-2 | J0976459.D | 05/12/16 | 15:18 | 05:30 | BPEB-17 |
| FA33878-5 | J0976460.D | 05/12/16 | 15:41 | 05:53 | S-39S |
| FA33878-1MS | J0976463.D | 05/12/16 | 16:49 | 07:01 | Matrix Spike |
| FA33878-1MSD | J0976464.D | 05/12/16 | 17:12 | 07:24 | Matrix Spike Duplicate |
| VJ5295-ECC5295 | J0976465.D | 05/12/16 | 17:35 | 07:47 | Ending cal 5 |

# Instrument Performance Check (BFB)



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

**Sample:** VJ5296-BFB
**Lab File ID:** J0976467.D
**Instrument ID:** GCMSJ
**Injection Date:** 05/13/16
**Injection Time:** 08:07

| m/e | Ion Abundance Criteria | Raw Abundance | % Relative Abundance | | Pass/Fail |
|---|---|---|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 49349 | 16.9 | | Pass |
| 75 | 30.0 - 60.0% of mass 95 | 144635 | 49.6 | | Pass |
| 95 | Base peak, 100% relative abundance | 291584 | 100.0 | | Pass |
| 96 | 5.0 - 9.0% of mass 95 | 19948 | 6.84 | | Pass |
| 173 | Less than 2.0% of mass 174 | 0 | 0.00 | (0.00) [a] | Pass |
| 174 | 50.0 - 100.0% of mass 95 | 259819 | 89.1 | | Pass |
| 175 | 5.0 - 9.0% of mass 174 | 18605 | 6.38 | (7.16) [a] | Pass |
| 176 | 95.0 - 101.0% of mass 174 | 252565 | 86.6 | (97.2) [a] | Pass |
| 177 | 5.0 - 9.0% of mass 176 | 17084 | 5.86 | (6.76) [b] | Pass |

(a) Value is % of mass 174
(b) Value is % of mass 176

**This check applies to the following Samples, MS, MSD, Blanks, and Standards:**

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| VJ5296-CC5295 | J0976468.D | 05/13/16 | 08:58 | 00:51 | Continuing cal 5 |
| VJ5296-BS | J0976469.D | 05/13/16 | 09:50 | 01:43 | Blank Spike |
| VJ5297-BS | J0976469.D | 05/13/16 | 09:50 | 01:43 | Blank Spike |
| VJ5296-MB | J0976470.D | 05/13/16 | 10:13 | 02:06 | Method Blank |
| VJ5297-MB | J0976470.D | 05/13/16 | 10:13 | 02:06 | Method Blank |
| FA33878-6 | J0976471.D | 05/13/16 | 10:39 | 02:32 | RA19-GWD |
| ZZZZZZ | J0976473.D | 05/13/16 | 11:25 | 03:18 | (unrelated sample) |
| FA33878-5 | J0976474.D | 05/13/16 | 11:48 | 03:41 | S-39S |
| FA33745-28 | J0976475.D | 05/13/16 | 12:11 | 04:04 | (used for QC only; not part of job FA33878) |
| ZZZZZZ | J0976476.D | 05/13/16 | 12:34 | 04:27 | (unrelated sample) |
| ZZZZZZ | J0976477.D | 05/13/16 | 12:57 | 04:50 | (unrelated sample) |
| ZZZZZZ | J0976478.D | 05/13/16 | 13:20 | 05:13 | (unrelated sample) |
| ZZZZZZ | J0976479.D | 05/13/16 | 13:43 | 05:36 | (unrelated sample) |
| ZZZZZZ | J0976480.D | 05/13/16 | 14:06 | 05:59 | (unrelated sample) |
| ZZZZZZ | J0976481.D | 05/13/16 | 14:29 | 06:22 | (unrelated sample) |
| ZZZZZZ | J0976482.D | 05/13/16 | 14:52 | 06:45 | (unrelated sample) |
| FA33919-5 | J0976483.D | 05/13/16 | 15:15 | 07:08 | (used for QC only; not part of job FA33878) |
| ZZZZZZ | J0976484.D | 05/13/16 | 15:38 | 07:31 | (unrelated sample) |
| ZZZZZZ | J0976485.D | 05/13/16 | 16:01 | 07:54 | (unrelated sample) |
| ZZZZZZ | J0976486.D | 05/13/16 | 16:24 | 08:17 | (unrelated sample) |
| ZZZZZZ | J0976487.D | 05/13/16 | 16:46 | 08:39 | (unrelated sample) |
| FA33919-5MS | J0976488.D | 05/13/16 | 17:09 | 09:02 | Matrix Spike |
| FA33919-5MSD | J0976489.D | 05/13/16 | 17:32 | 09:25 | Matrix Spike Duplicate |
| FA33745-28MS | J0976490.D | 05/13/16 | 17:55 | 09:48 | Matrix Spike |

# Instrument Performance Check (BFB)



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

**Sample:** VJ5296-BFB
**Lab File ID:** J0976467.D
**Instrument ID:** GCMSJ
**Injection Date:** 05/13/16
**Injection Time:** 08:07

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | Hours Lapsed | Client Sample ID |
|---|---|---|---|---|---|
| FA33745-28MSD | J0976491.D | 05/13/16 | 18:18 | 10:11 | Matrix Spike Duplicate |
| VJ5296-ECC5295 | J0976492.D | 05/13/16 | 18:41 | 10:34 | Ending cal 5 |

# Volatile Internal Standard Area Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | | |
|---|---|---|---|
| **Check Std:** | VC4595-ICC4595 | **Injection Date:** | 05/12/16 |
| **Lab File ID:** | C0115582.D | **Injection Time:** | 13:16 |
| **Instrument ID:** | GCMSC | **Method:** | SW846 8260C |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT |
|---|---|---|---|---|---|---|---|---|
| Initial Cal [a] | 956915 | 6.88 | 606301 | 10.00 | 290940 | 12.37 | 96168 | 4.52 |
| Check Std [b] | 956915 | 6.88 | 606301 | 10.00 | 290940 | 12.37 | 96168 | 4.52 |
| Upper Limit [c] | 1913830 | 7.38 | 1212602 | 10.50 | 581880 | 12.87 | 192336 | 5.02 |
| Lower Limit [d] | 478458 | 6.38 | 303151 | 9.50 | 145470 | 11.87 | 48084 | 4.02 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT |
|---|---|---|---|---|---|---|---|---|
| VC4595-BS | 974696 | 6.88 | 668688 | 10.00 | 351771 | 12.37 | 87288 | 4.52 |
| VC4595-MB | 1014545 | 6.88 | 690448 | 10.00 | 355851 | 12.37 | 83457 | 4.56 |
| ZZZZZZ | 966869 | 6.89 | 611787 | 10.00 | 319571 | 12.37 | 126007 | 4.52 |
| ZZZZZZ | 939699 | 6.89 | 614364 | 10.00 | 321701 | 12.37 | 85564 | 4.52 |
| FA33788-8 | 908608 | 6.89 | 599097 | 10.01 | 357538 | 12.38 | 122047 | 4.52 |
| FA33788-8 | 1392271 | 6.88 | 990547 | 10.00 | 563487 | 12.37 | 122025 | 4.56 |
| FA33788-8MS | 1495826 | 6.88 | 1120057 | 10.00 | 571898 | 12.37 | 62785 | 4.57 |
| FA33788-8MSD | 1457986 | 6.88 | 1026947 | 10.00 | 518562 | 12.37 | 73669 | 4.55 |
| FA33878-3 | 1454671 | 6.88 | 975370 | 10.00 | 518530 | 12.37 | 137423 | 4.57 |
| FA33878-4 | 1369765 | 6.88 | 926191 | 10.00 | 472703 | 12.38 | 119435 | 4.56 |
| VC4595-ECC4595 | 990087 | 6.89 | 687002 | 10.00 | 336645 | 12.37 | 98434 | 4.52 |

**IS 1** = Fluorobenzene
**IS 2** = Chlorobenzene-D5
**IS 3** = 1,4-Dichlorobenzene-d4
**IS 4** = Tert Butyl Alcohol-D10

(a) Initial Cal is: VC4595-ICC4595 C0115582.D 05/12/16 13:16
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

# Volatile Internal Standard Area Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | | |
|---|---|---|---|
| **Check Std:** | VJ5295-ICC5295 | **Injection Date:** | 05/12/16 |
| **Lab File ID:** | J0976451.D | **Injection Time:** | 11:51 |
| **Instrument ID:** | GCMSJ | **Method:** | SW846 8260C |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT |
|---|---|---|---|---|---|---|---|---|
| Initial Cal [a] | 1404396 | 7.76 | 1101438 | 10.85 | 623205 | 13.21 | 87230 | 5.30 |
| Check Std [b] | 1404396 | 7.76 | 1101438 | 10.85 | 623205 | 13.21 | 87230 | 5.30 |
| Upper Limit [c] | 2808792 | 8.26 | 2202876 | 11.35 | 1246410 | 13.71 | 174460 | 5.80 |
| Lower Limit [d] | 702198 | 7.26 | 550719 | 10.35 | 311603 | 12.71 | 43615 | 4.80 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT |
|---|---|---|---|---|---|---|---|---|
| VJ5295-BS | 1418135 | 7.76 | 1104667 | 10.85 | 616596 | 13.20 | 88547 | 5.30 |
| VJ5295-MB | 1269918 | 7.76 | 952803 | 10.85 | 523232 | 13.21 | 81314 | 5.29 |
| FA33878-1 | 1245487 | 7.76 | 976323 | 10.85 | 509551 | 13.21 | 82944 | 5.29 |
| FA33878-2 | 1238512 | 7.76 | 929443 | 10.85 | 489636 | 13.21 | 75884 | 5.30 |
| FA33878-5 | 1245801 | 7.76 | 1019203 | 10.85 | 591579 | 13.20 | 73891 | 5.29 |
| FA33878-1MS | 1289451 | 7.76 | 1067048 | 10.85 | 595031 | 13.20 | 86085 | 5.30 |
| FA33878-1MSD | 1404262 | 7.76 | 1112976 | 10.85 | 616139 | 13.20 | 94704 | 5.29 |
| VJ5295-ECC5295 | 1457501 | 7.76 | 1152431 | 10.85 | 648321 | 13.21 | 93828 | 5.30 |

**IS 1** = Fluorobenzene
**IS 2** = Chlorobenzene-D5
**IS 3** = 1,4-Dichlorobenzene-d4
**IS 4** = Tert Butyl Alcohol-D10

(a) Initial Cal is: VJ5295-ICC5295 J0976451.D 05/12/16 11:51
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

# Volatile Internal Standard Area Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | | |
|---|---|---|---|
| **Check Std:** | VJ5296-CC5295 | **Injection Date:** | 05/13/16 |
| **Lab File ID:** | J0976468.D | **Injection Time:** | 08:58 |
| **Instrument ID:** | GCMSJ | **Method:** | SW846 8260C |

| | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT |
|---|---|---|---|---|---|---|---|---|
| Initial Cal [a] | 1404396 | 7.76 | 1101438 | 10.85 | 623205 | 13.21 | 87230 | 5.30 |
| Check Std [b] | 1454548 | 7.76 | 1131211 | 10.85 | 643746 | 13.21 | 98546 | 5.30 |
| Upper Limit [c] | 2909096 | 8.26 | 2262422 | 11.35 | 1287492 | 13.71 | 197092 | 5.80 |
| Lower Limit [d] | 727274 | 7.26 | 565606 | 10.35 | 321873 | 12.71 | 49273 | 4.80 |

| Lab Sample ID | IS 1 AREA | RT | IS 2 AREA | RT | IS 3 AREA | RT | IS 4 AREA | RT |
|---|---|---|---|---|---|---|---|---|
| VJ5296-BS | 1436742 | 7.76 | 1102663 | 10.85 | 633752 | 13.20 | 97393 | 5.30 |
| VJ5297-BS | 1436742 | 7.76 | 1102663 | 10.85 | 633752 | 13.20 | 97393 | 5.30 |
| VJ5296-MB | 1294398 | 7.76 | 965080 | 10.85 | 522102 | 13.21 | 81117 | 5.30 |
| VJ5297-MB | 1294398 | 7.76 | 965080 | 10.85 | 522102 | 13.21 | 81117 | 5.30 |
| FA33878-6 | 1270416 | 7.76 | 960967 | 10.85 | 505691 | 13.21 | 69043 | 5.29 |
| ZZZZZZ | 1176583 | 7.76 | 905910 | 10.85 | 476161 | 13.21 | 71842 | 5.30 |
| FA33878-5 | 1152398 | 7.76 | 887408 | 10.85 | 479629 | 13.21 | 70146 | 5.30 |
| FA33745-28 | 1177398 | 7.76 | 887008 | 10.85 | 480836 | 13.21 | 71170 | 5.29 |
| ZZZZZZ | 1153897 | 7.76 | 867224 | 10.85 | 456787 | 13.21 | 64221 | 5.29 |
| ZZZZZZ | 1135979 | 7.76 | 868481 | 10.85 | 458498 | 13.21 | 65586 | 5.29 |
| ZZZZZZ | 1105399 | 7.76 | 832852 | 10.85 | 448895 | 13.21 | 68165 | 5.29 |
| ZZZZZZ | 1088961 | 7.76 | 850872 | 10.85 | 451697 | 13.21 | 65569 | 5.30 |
| ZZZZZZ | 1102058 | 7.76 | 845533 | 10.85 | 448006 | 13.21 | 67039 | 5.30 |
| ZZZZZZ | 1100415 | 7.76 | 826217 | 10.85 | 446886 | 13.21 | 66683 | 5.29 |
| ZZZZZZ | 1115075 | 7.76 | 832098 | 10.85 | 435613 | 13.21 | 66524 | 5.30 |
| FA33919-5 | 1096294 | 7.76 | 837577 | 10.85 | 443344 | 13.21 | 66041 | 5.29 |
| ZZZZZZ | 1086383 | 7.76 | 822842 | 10.85 | 434268 | 13.21 | 65628 | 5.29 |
| ZZZZZZ | 1084710 | 7.76 | 821116 | 10.85 | 431223 | 13.21 | 69439 | 5.30 |
| ZZZZZZ | 1087707 | 7.76 | 825226 | 10.85 | 425227 | 13.21 | 68239 | 5.29 |
| ZZZZZZ | 1071916 | 7.76 | 812434 | 10.85 | 430653 | 13.21 | 65689 | 5.29 |
| FA33919-5MS | 1245046 | 7.76 | 996773 | 10.85 | 562154 | 13.21 | 78527 | 5.30 |
| FA33919-5MSD | 1319911 | 7.76 | 1044269 | 10.85 | 577529 | 13.21 | 88678 | 5.29 |
| FA33745-28MS | 1342399 | 7.76 | 1066625 | 10.85 | 590274 | 13.21 | 86668 | 5.30 |
| FA33745-28MSD | 1383536 | 7.76 | 1081838 | 10.85 | 593173 | 13.21 | 94201 | 5.30 |
| VJ5296-ECC5295 | 1405463 | 7.76 | 1100363 | 10.85 | 632068 | 13.21 | 95461 | 5.30 |

**IS 1** = Fluorobenzene
**IS 2** = Chlorobenzene-D5
**IS 3** = 1,4-Dichlorobenzene-d4
**IS 4** = Tert Butyl Alcohol-D10

(a) Initial Cal is: VJ5295-ICC5295 J0976451.D 05/12/16 11:51
(b) Check Std Limit = -50 to +100% of initial cal area.

# Volatile Internal Standard Area Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | | |
|---|---|---|---|
| **Check Std:** | VJ5296-CC5295 | **Injection Date:** | 05/13/16 |
| **Lab File ID:** | J0976468.D | **Injection Time:** | 08:58 |
| **Instrument ID:** | GCMSJ | **Method:** | SW846 8260C |

| **Lab** | **IS 1** | | **IS 2** | | **IS 3** | | **IS 4** | |
|---|---|---|---|---|---|---|---|---|
| **Sample ID** | **AREA** | **RT** | **AREA** | **RT** | **AREA** | **RT** | **AREA** | **RT** |

(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

# Volatile Surrogate Recovery Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

**Method:** SW846 8260C **Matrix:** AQ

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| FA33878-1 | J0976458.D | 104 | 106 | 99 | 106 |
| FA33878-2 | J0976459.D | 101 | 105 | 104 | 106 |
| FA33878-5 | J0976474.D | 102 | 105 | 101 | 103 |
| FA33878-5 | J0976460.D | 104 | 103 | 97 | 109 |
| FA33878-6 | J0976471.D | 103 | 100 | 102 | 106 |
| FA33878-1MS | J0976463.D | 100 | 102 | 95 | 100 |
| FA33878-1MSD | J0976464.D | 97 | 101 | 97 | 101 |
| FA33919-5MS | J0976488.D | 99 | 101 | 97 | 99 |
| FA33919-5MSD | J0976489.D | 99 | 102 | 99 | 100 |
| VJ5295-BS | J0976456.D | 99 | 99 | 100 | 100 |
| VJ5295-MB | J0976457.D | 102 | 103 | 103 | 104 |
| VJ5296-BS | J0976469.D | 100 | 99 | 100 | 99 |
| VJ5296-MB | J0976470.D | 102 | 102 | 104 | 104 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 83-118% |
| **S2** = 1,2-Dichloroethane-D4 | 79-125% |
| **S3** = Toluene-D8 | 85-112% |
| **S4** = 4-Bromofluorobenzene | 83-118% |

# Volatile Surrogate Recovery Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

**Method:** SW846 8260C **Matrix:** SO

**Samples and QC shown here apply to the above method**

| Lab Sample ID | Lab File ID | S1 | S2 | S3 | S4 |
|---|---|---|---|---|---|
| FA33878-3 | C0115596.D | 106 | 90 | 97 | 100 |
| FA33878-4 | C0115598.D | 108 | 94 | 96 | 101 |
| FA33788-8MS | C0115594.D | 91 | 80 | 93 | 109 |
| FA33788-8MSD | C0115595.D | 93 | 82 | 97 | 109 |
| VC4595-BS | C0115588.D | 98 | 93 | 100 | 103 |
| VC4595-MB | C0115589.D | 113 | 109 | 94 | 98 |

| Surrogate Compounds | Recovery Limits |
|---|---|
| **S1** = Dibromofluoromethane | 75-124% |
| **S2** = 1,2-Dichloroethane-D4 | 72-135% |
| **S3** = Toluene-D8 | 75-126% |
| **S4** = 4-Bromofluorobenzene | 71-133% |

# Initial Calibration Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR
**Sample:** VC4595-ICC4595
**Lab FileID:** C0115582.D

Response Factor Report MSVOA5

Method : C:\msdchem\2\MET...216APP9-C-Soil.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri May 13 07:24:44 2016
Response via : Initial Calibration

Calibration Files
1 =C0115579.D 2 =C0115580.D 3 =C0115581.D 4 =C0115582.D
5 =C0115583.D 6 =C0115584.D 7 =C0115585.D

| Compound | 1 | 2 | 3 | 4 | 5 | 6 | 7 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|
| 1) I Fluorobenzene | ----------ISTD---------- | | | | | | | | |
| 2) Dichlorodifluorom | 0.639 | 0.617 | 0.608 | 0.544 | 0.514 | 0.494 | 0.535 | 0.564 | 9.97 |
| 3)P Chloromethane | 0.608 | 0.616 | 0.609 | 0.526 | 0.452 | 0.446 | 0.465 | 0.532 | 14.77 |
| 4)C Vinyl Chloride | 0.482 | 0.499 | 0.503 | 0.430 | 0.392 | 0.387 | 0.424 | 0.445 | 11.03 |
| 5) Bromomethane | 0.271 | 0.280 | 0.261 | 0.193 | 0.173 | 0.172 | 0.167 | 0.217 | 23.69 |
| ---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9979 | | | | | | | | | |
| Response Ratio = 0.00000 + 0.19534 *A + -0.00740 *A^2 | | | | | | | | | |
| 6) Chloroethane | 0.239 | 0.245 | 0.225 | 0.166 | 0.132 | 0.129 | 0.113 | 0.178 | 31.85 |
| ---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9951 | | | | | | | | | |
| Response Ratio = 0.00000 + 0.17253 *A + -0.01509 *A^2 | | | | | | | | | |
| 7) Trichlorofluorome | 0.610 | 0.649 | 0.660 | 0.576 | 0.515 | 0.499 | 0.484 | 0.571 | 12.71 |
| 8) Ethyl Ether | 0.247 | 0.264 | 0.254 | 0.227 | 0.203 | 0.198 | 0.181 | 0.225 | 14.07 |
| 9) 1,2-Dichlorotrifl | 0.485 | 0.473 | 0.457 | 0.371 | 0.318 | 0.297 | 0.286 | 0.384 | 22.66 |
| ---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9981 | | | | | | | | | |
| Response Ratio = 0.00000 + 0.37176 *A + -0.02253 *A^2 | | | | | | | | | |
| 10)C 1,1-Dichloroethen | 0.646 | 0.660 | 0.626 | 0.535 | 0.472 | 0.438 | 0.428 | 0.544 | 18.45 |
| ---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9986 | | | | | | | | | |
| Response Ratio = 0.00000 + 0.53513 *A + -0.02812 *A^2 | | | | | | | | | |
| 11) Freon 113 | 0.456 | 0.455 | 0.391 | 0.344 | 0.303 | 0.285 | 0.293 | 0.361 | 20.47 |
| ---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9975 | | | | | | | | | |
| Response Ratio = 0.00000 + 0.32605 *A + -0.00952 *A^2 | | | | | | | | | |
| 12) Carbon Disulfide | 1.353 | 1.319 | 1.255 | 1.046 | 0.887 | 0.832 | 0.797 | 1.070 | 22.31 |
| ---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9982 | | | | | | | | | |
| Response Ratio = 0.00000 + 1.04344 *A + -0.06417 *A^2 | | | | | | | | | |
| 13) Iodomethane | 0.645 | 0.647 | 0.633 | 0.552 | 0.497 | 0.511 | 0.515 | 0.571 | 11.88 |
| 14) Allyl chloride | 0.547 | 0.518 | 0.547 | 0.473 | 0.409 | 0.392 | 0.379 | 0.466 | 15.75 |
| ---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9987 | | | | | | | | | |
| Response Ratio = 0.00000 + 0.46648 *A + -0.02288 *A^2 | | | | | | | | | |
| 15) Methylene Chlorid | 0.655 | 0.554 | 0.508 | 0.404 | 0.340 | 0.323 | 0.307 | 0.442 | 30.20 |
| ---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9979 | | | | | | | | | |
| Response Ratio = 0.00000 + 0.40615 *A + -0.02579 *A^2 | | | | | | | | | |
| 16) Acetone | 0.101 | 0.083 | 0.084 | 0.068 | 0.062 | 0.060 | 0.058 | 0.074 | 21.85 |
| ---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9991 | | | | | | | | | |
| Response Ratio = 0.00000 + 0.06879 *A + -0.00055 *A^2 | | | | | | | | | |
| 17) Methyl acetate | 0.179 | 0.168 | 0.154 | 0.128 | 0.111 | 0.105 | 0.098 | 0.135 | 23.83 |
| ---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989 | | | | | | | | | |
| Response Ratio = 0.00000 + 0.13193 *A + -0.00171 *A^2 | | | | | | | | | |

# Initial Calibration Summary

**Job Number:** FA33878 **Sample:** VC4595-ICC4595
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115582.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

```
18)  trans-1,2-Dichlor 0.540 0.566 0.520 0.449 0.389 0.373 0.365 0.458  18.46
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9986
              Response Ratio = 0.00000 + 0.44063 *A + -0.01994 *A^2

19)  Hexane            0.315 0.303 0.273 0.245 0.219 0.199 0.205 0.251  18.70
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9972
              Response Ratio = 0.00000 + 0.23583 *A + -0.00880 *A^2

20)  Methyl Tert Butyl 0.917 0.916 0.886 0.818 0.745 0.751 0.736 0.824   9.95
21)  Acetonitrile      0.032 0.023 0.024 0.019 0.017 0.017 0.016 0.021  27.65
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.01953 *A + -0.00010 *A^2

22)  Di-isopropyl ethe 0.903 0.953 0.922 0.851 0.764 0.729 0.689 0.830  12.45
23)  Chloroprene       0.651 0.661 0.662 0.621 0.549 0.522 0.509 0.596  11.35
24)P 1,1-Dichloroethan 0.694 0.707 0.676 0.588 0.505 0.483 0.462 0.588  17.97
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
              Response Ratio = 0.00000 + 0.58510 *A + -0.03187 *A^2

25)  Acrylonitrile     0.075 0.065 0.066 0.057 0.054 0.051 0.052 0.060  14.73
26)  ETBE              0.928 0.973 0.954 0.888 0.803 0.783 0.745 0.868  10.43
27)  Vinyl acetate     0.459 0.403 0.463 0.391 0.352 0.322 0.303 0.385  16.27
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.40797 *A + -0.00535 *A^2

28)  cis-1,2-Dichloroe 0.431 0.449 0.424 0.394 0.352 0.336 0.333 0.388  12.36
29)  2,2-Dichloropropa 0.564 0.528 0.510 0.430 0.343 0.323 0.308 0.429  24.78
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9968
              Response Ratio = 0.00000 + 0.41662 *A + -0.02839 *A^2

30)  Bromochloromethan 0.202 0.202 0.186 0.169 0.152 0.150 0.148 0.173  13.85
31)  Cyclohexane       0.608 0.591 0.579 0.521 0.474 0.438 0.439 0.522  13.93
32)C Chloroform        0.778 0.775 0.756 0.636 0.575 0.566 0.547 0.662  15.79
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.64000 *A + -0.02383 *A^2

33)  Ethyl acetate     0.168 0.153 0.169 0.153 0.151 0.140 0.140 0.153   7.61
34)  Tetrahydrofuran   0.075 0.048 0.052 0.043 0.043 0.041 0.041 0.049  24.91
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.04509 *A + -0.00107 *A^2

35)S Dibromofluorometh 0.318 0.318 0.295 0.290 0.276 0.276 0.273 0.292   6.53
36)  Carbon Tetrachlor 0.636 0.640 0.705 0.628 0.571 0.543 0.541 0.609   9.90
37)  1,1,1-Trichloroet 0.690 0.675 0.686 0.597 0.529 0.504 0.484 0.595  15.15
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.60152 *A + -0.03037 *A^2

38)  2-Butanone        0.102 0.089 0.098 0.089 0.087 0.080 0.077 0.089   9.96
39)  1,1-Dichloroprope 0.492 0.495 0.495 0.467 0.428 0.397 0.394 0.453  10.10
40)  Propionitrile     0.035 0.032 0.032 0.027 0.025 0.023 0.022 0.028  18.46
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.02797 *A + -0.00016 *A^2

41)  Methacrylonitrile 0.127 0.118 0.125 0.112 0.103 0.093 0.088 0.109  14.01
42)  Benzene           1.363 1.401 1.392 1.255 1.124 1.030 0.973 1.220  14.59
43)  TAME              0.825 0.843 0.802 0.788 0.731 0.725 0.698 0.773   7.14
44)S 1,2-Dichloroethan 0.357 0.351 0.335 0.323 0.325 0.320 0.312 0.332   5.00
45)  1,2-Dichloroethan 0.476 0.464 0.470 0.432 0.399 0.385 0.373 0.428  10.06
46)  Trichloroethene   0.366 0.368 0.363 0.347 0.311 0.294 0.288 0.334  10.56
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47)  Methylcyclohexane 0.590 0.631 0.606 0.570 0.523 0.472 0.469 0.552  11.71
48)  Dibromomethane    0.203 0.197 0.199 0.204 0.182 0.174 0.180 0.191   6.42
49)C 1,2-Dichloropropa 0.294 0.305 0.305 0.314 0.258 0.241 0.255 0.282  10.42
50)  Bromodichlorometh 0.441 0.443 0.445 0.442 0.392 0.382 0.389 0.419   7.07
51)  Methyl methacryla 0.089 0.124 0.138 0.135 0.154 0.143 0.156 0.134  16.84
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9974
              Response Ratio = 0.00000 + 0.13533 *A + 0.00463 *A^2

52)  2-Chloroethyl vin 0.053 0.071 0.104 0.104 0.111 0.105 0.102 0.093  23.44
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.11314 *A + -0.00054 *A^2

53)  cis-1,3-Dichlorop 0.312 0.349 0.416 0.413 0.429 0.416 0.407 0.392  11.14

54) I   Chlorobenzene-d5      ----------------ISTD---------------------
55)S Toluene-d8        1.423 1.378 1.410 1.478 1.487 1.490 1.495 1.452   3.24
56)C Toluene           1.746 1.795 1.843 1.822 1.678 1.527 1.429 1.691   9.33
57)  2-Nitropropane    0.083 0.074 0.088 0.090 0.091 0.088 0.088 0.086   6.60
58)  4-Methyl-2-pentan 0.294 0.303 0.342 0.325 0.282 0.253 0.230 0.290  13.45
59)  trans-1,3-Dichlor 0.357 0.373 0.425 0.425 0.462 0.444 0.431 0.417   9.09
60)  Tetrachloroethene 0.438 0.462 0.429 0.427 0.409 0.398 0.416 0.426   4.89
61)  Ethyl methacrylat 0.216 0.223 0.285 0.346 0.368 0.362 0.367 0.310  21.95
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.34730 *A + 0.00519 *A^2

62)  1,1,2-Trichloroet 0.288 0.276 0.289 0.277 0.262 0.246 0.241 0.268   7.19
63)  Dibromochlorometh 0.321 0.353 0.362 0.387 0.392 0.394 0.390 0.371   7.41
64)  1,3-Dichloropropa 0.448 0.453 0.492 0.510 0.520 0.499 0.485 0.487   5.61
65)  1,2-Dibromoethane 0.253 0.260 0.293 0.288 0.303 0.301 0.295 0.285   6.97
66)  2-hexanone        0.117 0.124 0.164 0.171 0.166 0.152 0.146 0.149  14.16
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.17876 *A + -0.00167 *A^2

67)  1-Chlorohexane    0.340 0.425 0.504 0.567 0.539 0.507 0.521 0.486  16.04
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 0.54103 *A + -0.00625 *A^2

68)C Ethylbenzene      1.857 1.976 1.983 1.925 1.681 1.539 1.453 1.773  12.20
69)P Chlorobenzene     1.046 1.070 1.085 1.047 0.964 0.905 0.875 0.999   8.42
70)  1,1,1,2-Tetrachlo 0.488 0.472 0.465 0.489 0.440 0.440 0.430 0.461   5.22
71)  m,p-Xylene        1.264 1.421 1.502 1.473 1.263 1.111 1.018 1.293  14.21
72)  o-Xylene          1.119 1.371 1.623 1.772 1.591 1.469 1.401 1.478  14.26
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 1.77376 *A + -0.09481 *A^2

73)  Styrene           0.690 0.880 0.986 1.036 0.985 0.944 0.923 0.920  12.31
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 1.00218 *A + -0.01842 *A^2

74)P Bromoform         0.155 0.170 0.183 0.178 0.190 0.189 0.201 0.181   8.37
75)  Isopropylbenzene  1.375 1.692 1.915 2.093 1.861 1.724 1.659 1.760  12.92
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 2.06819 *A + -0.10476 *A^2


76) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
77)S 4-Bromofluorobenz 0.593 0.581 0.636 0.655 0.682 0.713 0.695 0.651   7.73
78)  cis-1,4-Dichloro- 0.105 0.106 0.148 0.146 0.168 0.163 0.155 0.142  18.13
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
              Response Ratio = 0.00000 + 0.16677 *A + -0.00239 *A^2
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 79)  n-Propylbenzene   3.765 4.336 4.685 4.620 3.859 3.540 3.024 3.976  15.24
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
               Response Ratio = 0.00000 + 4.89327 *A + -0.46533 *A^2

 80)  Bromobenzene      0.784 0.834 0.861 0.822 0.772 0.782 0.705 0.794   6.38
 81)P 1,1,2,2-Tetrachlo 0.966 0.957 1.029 0.916 0.832 0.827 0.753 0.897  10.78
 82)  1,3,5-Trimethylbe 2.592 3.274 3.582 3.661 3.152 2.998 2.658 3.131  13.28
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
               Response Ratio = 0.00000 + 3.80172 *A + -0.28324 *A^2

 83)  2-Chlorotoluene   2.791 3.215 3.412 3.422 2.965 2.789 2.455 3.007  11.99
 84)  trans-1,4-Dichlor 0.113 0.130 0.150 0.148 0.164 0.157 0.145 0.144  11.86
 85)  1,2,3-Trichloropr 0.261 0.244 0.256 0.233 0.224 0.222 0.211 0.236   7.88
 86)  Cyclohexanone     0.022 0.020 0.026 0.027 0.028 0.026 0.025 0.025  11.96
 87)  4-Chlorotoluene   2.174 2.524 2.742 2.855 2.497 2.381 2.104 2.468  11.16
 88)  tert-Butylbenzene 1.234 1.723 2.182 2.488 2.232 2.186 1.965 2.001  20.65
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
               Response Ratio = 0.00000 + 2.56606 *A + -0.14541 *A^2

 89)  1,2,4-Trimethylbe 2.481 3.159 3.440 3.535 3.102 2.973 2.578 3.038  13.12
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
               Response Ratio = 0.00000 + 3.76547 *A + -0.29088 *A^2

 90)  Pentachloroethane 0.491 0.521 0.582 0.592 0.530 0.549 0.501 0.538   7.17
 91)  sec-Butylbenzene  3.127 3.847 4.323 4.590 4.105 3.842 3.328 3.880  13.41
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
               Response Ratio = 0.00000 + 4.63832 *A + -0.30384 *A^2

 92)  4-Isopropyltoluen 2.189 2.994 3.465 3.779 3.421 3.221 2.877 3.135  16.44
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
               Response Ratio = 0.00000 + 3.99168 *A + -0.27386 *A^2

 93)  1,3-Dichlorobenze 1.603 1.720 1.656 1.681 1.508 1.456 1.370 1.571   8.22
 94)  1,4-Dichlorobenze 1.684 1.621 1.579 1.570 1.431 1.391 1.322 1.514   8.80
 95)  n-Butylbenzene    1.427 1.791 1.941 2.114 1.880 1.764 1.648 1.795  12.21
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
               Response Ratio = 0.00000 + 2.13758 *A + -0.12291 *A^2

 96)  Benzyl Chloride   0.262 0.310 0.336 0.322 0.307 0.309 0.292 0.305   7.64
 97)  1,2-Dichlorobenze 1.617 1.647 1.717 1.717 1.535 1.515 1.469 1.602   6.16
 98)  1,2-Dibromo-3-Chl 0.217 0.184 0.206 0.207 0.217 0.212 0.220 0.209   5.81
 99)  Hexachlorobutadie 0.720 0.681 0.651 0.732 0.683 0.701 0.783 0.707   6.04
100)  1,2,4-Trichlorobe 1.096 1.165 1.078 1.269 1.095 1.153 1.175 1.147   5.77
101)  Naphthalene       2.556 2.714 3.010 3.192 2.794 2.824 2.701 2.827   7.50
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
               Response Ratio = 0.00000 + 3.07904 *A + -0.09398 *A^2

102)  1,2,3-Trichlorobe 1.185 1.266 1.127 1.259 1.077 1.143 1.181 1.177   5.83

103) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
104)  Ethanol           0.072 0.072 0.090 0.073 0.080 0.067 0.069 0.075  10.46
105)  Acrolein          1.313 1.419 1.734 1.635 1.583 1.538 1.753 1.568  10.24
106)  Tert butyl alcoho 1.275 1.246 1.307 1.250 1.225 1.187 1.410 1.272   5.63
107)  Isobutyl alcohol  0.288 0.218 0.262 0.245 0.241 0.210 0.242 0.244  10.71
108)  Tert Amyl Alcohol 0.824 0.850 1.005 0.984 0.987 0.933 1.092 0.954   9.77
109)  1,4-Dioxane       0.063 0.083 0.106 0.093 0.114 0.098 0.101 0.094  17.59
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9952
               Response Ratio = 0.00000 + 0.10712 *A + -0.00043 *A^2
```

# Initial Calibration Summary

**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

**Sample:** VC4595-ICC4595
**Lab FileID:** C0115582.D

---

(#) = Out of Range

051216APP9-C-Soil.m Fri May 13 07:42:29 2016

# Initial Calibration Verification



**Job Number:** FA33878 **Sample:** VC4595-ICV4595
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115587.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\051216\C0115587.D          Vial: 14
Acq On    : 12 May 2016   3:25 pm                     Operator: ericp
Sample    : ICV4595-4                                 Inst    : MSVOA5
Misc      : ms33242,vc4595,5.00,,,5,,                 Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\2\MET...216APP9-C-Soil.m (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Fri May 13 07:24:44 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | Fluorobenzene | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 6.89 |
| 2 | Dichlorodifluoromethane | 0.564 | 0.609 | -8.0 | 113 | 0.00 | 2.23 |
| 3 P | Chloromethane | 0.532 | 0.620 | -16.5 | 118 | 0.00 | 2.42 |
| 4 C | Vinyl Chloride | 0.445 | 0.492 | -10.6 | 115 | 0.01 | 2.53 |
| | | Amount | Calc. | %Drift | | | |
| 5 | Bromomethane | 50.000 | 54.175 | -8.3 | 106 | 0.00 | 2.88 |
| 6 | Chloroethane | 50.000 | 52.233 | -4.5 | 99 | 0.00 | 3.02 |
| | | AvgRF | CCRF | %Dev | | | |
| 7 | Trichlorofluoromethane | 0.571 | 0.596 | -4.4 | 104 | 0.00 | 3.17 |
| 8 | Ethyl Ether | 0.225 | 0.222 | 1.3 | 98 | 0.00 | 3.44 |
| | | Amount | Calc. | %Drift | | | |
| 9 | 1,2-Dichlorotrifluoroetha | 50.000 | 58.832 | -17.7 | 110 | 0.00 | 3.67 |
| 10 C | 1,1-Dichloroethene | 50.000 | 53.256 | -6.5 | 101 | 0.00 | 3.67 |
| 11 | Freon 113 | 50.000 | 52.907 | -5.8 | 98 | 0.00 | 3.73 |
| 12 | Carbon Disulfide | 50.000 | 52.555 | -5.1 | 99 | 0.00 | 3.71 |
| | | AvgRF | CCRF | %Dev | | | |
| 13 | Iodomethane | 0.571 | 0.573 | -0.4 | 104 | 0.00 | 3.83 |
| | | Amount | Calc. | %Drift | | | |
| 14 | Allyl chloride | 50.000 | 45.214 | 9.6 | 86 | 0.00 | 4.15 |
| 15 | Methylene Chloride | 50.000 | 54.565 | -9.1 | 103 | 0.00 | 4.26 |
| 16 | Acetone | 250.000 | 213.774 | 14.5 | 84 | 0.00 | 4.31 |
| 17 | Methyl acetate | 250.000 | 249.932 | 0.0 | 97 | 0.00 | 4.42 |
| 18 | trans-1,2-Dichloroethene | 50.000 | 58.123 | -16.2 | 109 | 0.00 | 4.43 |
| 19 | Hexane | 50.000 | 51.828 | -3.7 | 97 | 0.00 | 4.48 |
| | | AvgRF | CCRF | %Dev | | | |
| 20 | Methyl Tert Butyl Ether | 0.824 | 0.817 | 0.8 | 101 | 0.00 | 4.52 |
| | | Amount | Calc. | %Drift | | | |
| 21 | Acetonitrile | 500.000 | 454.254 | 9.1 | 90 | 0.00 | 4.80 |
| | | AvgRF | CCRF | %Dev | | | |
| 22 | Di-isopropyl ether | 0.830 | 0.831 | -0.1 | 98 | 0.00 | 4.88 |
| 23 | Chloroprene | 0.596 | 0.548 | 8.1 | 89 | 0.00 | 5.02 |
| | | Amount | Calc. | %Drift | | | |
| 24 P | 1,1-Dichloroethane | 50.000 | 54.010 | -8.0 | 102 | 0.00 | 5.05 |

# Initial Calibration Verification

**Job Number:** FA33878 **Sample:** VC4595-ICV4595
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115587.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 25 | | Acrylonitrile | 0.060 | 0.058 | 3.3 | 101 | 0.00 | 5.11 |
| 26 | | ETBE | 0.868 | 0.858 | 1.2 | 97 | 0.00 | 5.25 |
| | | | Amount | Calc. | %Drift | | | |
| 27 | | Vinyl acetate | 250.000 | 256.964 | -2.8 | 101 | 0.00 | 5.28 |
| | | | AvgRF | CCRF | %Dev | | | |
| 28 | | cis-1,2-Dichloroethene | 0.388 | 0.386 | 0.5 | 99 | 0.00 | 5.60 |
| | | | Amount | Calc. | %Drift | | | |
| 29 | | 2,2-Dichloropropane | 50.000 | 56.199 | -12.4 | 101 | 0.00 | 5.71 |
| | | | AvgRF | CCRF | %Dev | | | |
| 30 | | Bromochloromethane | 0.173 | 0.163 | 5.8 | 97 | 0.00 | 5.81 |
| 31 | | Cyclohexane | 0.522 | 0.506 | 3.1 | 98 | 0.00 | 5.81 |
| | | | Amount | Calc. | %Drift | | | |
| 32 | C | Chloroform | 50.000 | 52.188 | -4.4 | 102 | 0.00 | 5.87 |
| | | | AvgRF | CCRF | %Dev | | | |
| 33 | | Ethyl acetate | 0.153 | 0.157 | -2.6 | 103 | 0.00 | 5.96 |
| | | | Amount | Calc. | %Drift | | | |
| 34 | | Tetrahydrofuran | 50.000 | 53.203 | -6.4 | 108 | 0.00 | 6.04 |
| | | | AvgRF | CCRF | %Dev | | | |
| 35 | S | Dibromofluoromethane | 0.292 | 0.286 | 2.1 | 99 | 0.00 | 6.06 |
| 36 | | Carbon Tetrachloride | 0.609 | 0.633 | -3.9 | 101 | 0.00 | 6.02 |
| | | | Amount | Calc. | %Drift | | | |
| 37 | | 1,1,1-Trichloroethane | 50.000 | 51.303 | -2.6 | 99 | 0.00 | 6.09 |
| | | | AvgRF | CCRF | %Dev | | | |
| 38 | | 2-Butanone | 0.089 | 0.077 | 13.5 | 87 | 0.00 | 6.18 |
| 39 | | 1,1-Dichloropropene | 0.453 | 0.479 | -5.7 | 103 | 0.00 | 6.21 |
| | | | Amount | Calc. | %Drift | | | |
| 40 | | Propionitrile | 500.000 | 480.120 | 4.0 | 95 | 0.00 | 6.51 |
| | | | AvgRF | CCRF | %Dev | | | |
| 41 | | Methacrylonitrile | 0.109 | 0.105 | 3.7 | 94 | 0.00 | 6.52 |
| 42 | | Benzene | 1.220 | 1.232 | -1.0 | 99 | 0.00 | 6.48 |
| 43 | | TAME | 0.773 | 0.729 | 5.7 | 93 | 0.00 | 6.56 |
| 44 | S | 1,2-Dichloroethane-d4 | 0.332 | 0.306 | 7.8 | 95 | 0.00 | 6.62 |
| 45 | | 1,2-Dichloroethane | 0.428 | 0.427 | 0.2 | 99 | 0.00 | 6.68 |
| 46 | | Trichloroethene | 0.334 | 0.341 | -2.1 | 99 | 0.00 | 7.06 |
| 47 | | Methylcyclohexane | 0.552 | 0.580 | -5.1 | 103 | 0.00 | 7.05 |
| 48 | | Dibromomethane | 0.191 | 0.196 | -2.6 | 97 | 0.00 | 7.50 |
| 49 | C | 1,2-Dichloropropane | 0.282 | 0.273 | 3.2 | 87 | 0.00 | 7.59 |
| 50 | | Bromodichloromethane | 0.419 | 0.425 | -1.4 | 97 | 0.00 | 7.64 |
| | | | Amount | Calc. | %Drift | | | |
| 51 | | Methyl methacrylate | 50.000 | 49.443 | 1.1 | 103 | 0.00 | 7.77 |
| 52 | | 2-Chloroethyl vinyl ether | 250.000 | 249.642 | 0.1 | 107 | 0.00 | 8.19 |
| | | | AvgRF | CCRF | %Dev | | | |
| 53 | | cis-1,3-Dichloropropene | 0.392 | 0.447 | -14.0 | 109 | 0.00 | 8.27 |

# Initial Calibration Verification

**Job Number:** FA33878 **Sample:** VC4595-ICV4595
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115587.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 54 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 107 | 0.00 | 10.00 |
| 55 | S | Toluene-d8 | 1.452 | 1.402 | 3.4 | 102 | 0.00 | 8.45 |
| 56 | C | Toluene | 1.691 | 1.781 | -5.3 | 105 | 0.00 | 8.51 |
| 57 | | 2-Nitropropane | 0.086 | 0.084 | 2.3 | 100 | 0.00 | 8.75 |
| 58 | | 4-Methyl-2-pentanone | 0.290 | 0.284 | 2.1 | 94 | 0.00 | 8.87 |
| 59 | | trans-1,3-Dichloropropene | 0.417 | 0.493 | -18.2 | 125 | 0.00 | 8.92 |
| 60 | | Tetrachloroethene | 0.426 | 0.426 | 0.0 | 107 | 0.00 | 8.90 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 61 | | Ethyl methacrylate | 50.000 | 44.785 | 10.4 | 98 | 0.00 | 9.04 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 62 | | 1,1,2-Trichloroethane | 0.268 | 0.269 | -0.4 | 104 | 0.00 | 9.08 |
| 63 | | Dibromochloromethane | 0.371 | 0.403 | -8.6 | 112 | 0.00 | 9.26 |
| 64 | | 1,3-Dichloropropane | 0.487 | 0.510 | -4.7 | 107 | 0.00 | 9.36 |
| 65 | | 1,2-Dibromoethane | 0.285 | 0.307 | -7.7 | 115 | 0.00 | 9.51 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 66 | | 2-hexanone | 250.000 | 222.316 | 11.1 | 96 | 0.00 | 9.69 |
| 67 | | 1-Chlorohexane | 50.000 | 52.508 | -5.0 | 106 | 0.00 | 9.97 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 68 | C | Ethylbenzene | 1.773 | 1.904 | -7.4 | 106 | 0.00 | 10.03 |
| 69 | P | Chlorobenzene | 0.999 | 1.066 | -6.7 | 109 | 0.00 | 10.02 |
| 70 | | 1,1,1,2-Tetrachloroethane | 0.461 | 0.491 | -6.5 | 108 | 0.00 | 10.08 |
| 71 | | m,p-Xylene | 1.293 | 1.473 | -13.9 | 107 | 0.00 | 10.17 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 72 | | o-Xylene | 50.000 | 53.718 | -7.4 | 109 | 0.00 | 10.61 |
| 73 | | Styrene | 50.000 | 54.381 | -8.8 | 111 | 0.00 | 10.67 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 74 | P | Bromoform | 0.181 | 0.197 | -8.8 | 119 | 0.00 | 10.72 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 75 | | Isopropylbenzene | 50.000 | 55.362 | -10.7 | 111 | 0.00 | 10.92 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 76 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 115 | 0.00 | 12.37 |
| 77 | S | 4-Bromofluorobenzene | 0.651 | 0.663 | -1.8 | 116 | 0.00 | 11.23 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 78 | | cis-1,4-Dichloro-2-butene | 50.000 | 44.096 | 11.8 | 114 | 0.00 | 11.28 |
| 79 | | n-Propylbenzene | 50.000 | 51.302 | -2.6 | 113 | 0.00 | 11.34 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 80 | | Bromobenzene | 0.794 | 0.820 | -3.3 | 115 | 0.00 | 11.34 |
| 81 | P | 1,1,2,2-Tetrachloroethane | 0.897 | 0.851 | 5.1 | 107 | 0.00 | 11.42 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 82 | | 1,3,5-Trimethylbenzene | 50.000 | 49.057 | 1.9 | 109 | 0.00 | 11.54 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 83 | | 2-Chlorotoluene | 3.007 | 3.304 | -9.9 | 111 | 0.00 | 11.52 |
| 84 | | trans-1,4-Dichloro-2-Bute | 0.144 | 0.146 | -1.4 | 113 | 0.00 | 11.60 |
| 85 | | 1,2,3-Trichloropropane | 0.236 | 0.228 | 3.4 | 112 | 0.00 | 11.57 |
| 86 | | Cyclohexanone | 0.025 | 0.024 | 4.0 | 101 | 0.00 | 11.63 |
| 87 | | 4-Chlorotoluene | 2.468 | 2.789 | -13.0 | 112 | 0.00 | 11.69 |

# Initial Calibration Verification

**Job Number:** FA33878 **Sample:** VC4595-ICV4595
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115587.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 88 | tert-Butylbenzene | 50.000 | 47.653 | 4.7 | 107 | 0.00 | 11.87 |
| 89 | 1,2,4-Trimethylbenzene | 50.000 | 49.316 | 1.4 | 112 | 0.00 | 11.94 |
| | | AvgRF | CCRF | %Dev | | | |
| 90 | Pentachloroethane | 0.538 | 0.582 | -8.2 | 113 | 0.00 | 11.91 |
| | | Amount | Calc. | %Drift | | | |
| 91 | sec-Butylbenzene | 50.000 | 52.602 | -5.2 | 114 | 0.00 | 12.05 |
| 92 | 4-Isopropyltoluene | 50.000 | 49.725 | 0.5 | 112 | 0.00 | 12.19 |
| | | AvgRF | CCRF | %Dev | | | |
| 93 | 1,3-Dichlorobenzene | 1.571 | 1.721 | -9.5 | 118 | 0.00 | 12.30 |
| 94 | 1,4-Dichlorobenzene | 1.514 | 1.642 | -8.5 | 120 | 0.00 | 12.39 |
| | | Amount | Calc. | %Drift | | | |
| 95 | n-Butylbenzene | 50.000 | 51.854 | -3.7 | 113 | 0.00 | 12.63 |
| | | AvgRF | CCRF | %Dev | | | |
| 96 | Benzyl Chloride | 0.305 | 0.333 | -9.2 | 119 | 0.00 | 12.64 |
| 97 | 1,2-Dichlorobenzene | 1.602 | 1.774 | -10.7 | 119 | 0.00 | 12.83 |
| 98 | 1,2-Dibromo-3-Chloropropa | 0.209 | 0.208 | 0.5 | 116 | 0.00 | 13.64 |
| 99 | Hexachlorobutadiene | 0.707 | 0.733 | -3.7 | 115 | 0.00 | 14.22 |
| 100 | 1,2,4-Trichlorobenzene | 1.147 | 1.315 | -14.6 | 119 | 0.00 | 14.26 |
| | | Amount | Calc. | %Drift | | | |
| 101 | Naphthalene | 50.000 | 59.053 | -18.1 | 126 | 0.00 | 14.55 |
| | | AvgRF | CCRF | %Dev | | | |
| 102 | 1,2,3-Trichlorobenzene | 1.177 | 1.351 | -14.8 | 123 | 0.00 | 14.71 |
| 103 I | Tert Butyl Alcohol-d10 | 1.000 | 1.000 | 0.0 | 91 | 0.00 | 4.52 |
| 104 | Ethanol | 0.075 | 0.087 | -16.0 | 108 | 0.01 | 3.59 |
| 105 | Acrolein | 1.568 | 2.024 | -29.1# | 112 | 0.00 | 4.01 |
| 106 | Tert butyl alcohol | 1.272 | 1.401 | -10.1 | 101 | 0.00 | 4.60 |
| 107 | Isobutyl alcohol | 0.244 | 0.263 | -7.8 | 97 | 0.00 | 6.65 |
| 108 | Tert Amyl Alcohol | 0.954 | 1.070 | -12.2 | 98 | 0.00 | 6.76 |
| | | Amount | Calc. | %Drift | | | |
| 109 | 1,4-Dioxane | 1000.000 | 1183.220 | -18.3 | 121 | 0.00 | 7.84 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C0115582.D 051216APP9-C-Soil.m Fri May 13 07:41:56 2016

6.7.2

6

# Continuing Calibration Summary



**Job Number:** FA33878 **Sample:** VC4595-ECC4595
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115600.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\051216\C0115600.D          Vial: 27
Acq On    : 12 May 2016   8:58 pm                    Operator: ericp
Sample    : ECC4595-4                                Inst    : MSVOA5
Misc      : ms33860,vc4595,5.00,,,5,,                Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\2\MET...216APP9-C-Soil.m (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Fri May 13 07:24:44 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | Fluorobenzene | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 6.89 |
| 2 | Dichlorodifluoromethane | 0.564 | 0.658 | -16.7 | 125 | 0.00 | 2.23 |
| 3 P | Chloromethane | 0.532 | 0.650 | -22.2 | 128 | 0.00 | 2.42 |
| 4 C | Vinyl Chloride | 0.445 | 0.508 | -14.2 | 122 | 0.00 | 2.53 |
| | | Amount | Calc. | %Drift | | | |
| 5 | Bromomethane | 50.000 | 45.488 | 9.0 | 92 | 0.00 | 2.87 |
| 6 | Chloroethane | 50.000 | 49.208 | 1.6 | 97 | 0.00 | 3.02 |
| | | AvgRF | CCRF | %Dev | | | |
| 7 | Trichlorofluoromethane | 0.571 | 0.547 | 4.2 | 98 | 0.00 | 3.17 |
| 8 | Ethyl Ether | 0.225 | 0.240 | -6.7 | 109 | 0.00 | 3.44 |
| | | Amount | Calc. | %Drift | | | |
| 9 | 1,2-Dichlorotrifluoroetha | 50.000 | 57.570 | -15.1 | 111 | 0.00 | 3.67 |
| 10 C | 1,1-Dichloroethene | 50.000 | 55.031 | -10.1 | 107 | 0.00 | 3.67 |
| 11 | Freon 113 | 50.000 | 59.969 | -19.9 | 114 | 0.00 | 3.73 |
| 12 | Carbon Disulfide | 50.000 | 55.395 | -10.8 | 107 | 0.00 | 3.71 |
| | | AvgRF | CCRF | %Dev | | | |
| 13 | Iodomethane | 0.571 | 0.602 | -5.4 | 113 | 0.00 | 3.83 |
| | | Amount | Calc. | %Drift | | | |
| 14 | Allyl chloride | 50.000 | 54.523 | -9.0 | 105 | 0.00 | 4.15 |
| 15 | Methylene Chloride | 50.000 | 54.845 | -9.7 | 106 | 0.00 | 4.26 |
| 16 | Acetone | 250.000 | 237.673 | 4.9 | 96 | 0.00 | 4.31 |
| 17 | Methyl acetate | 250.000 | 284.699 | -13.9 | 112 | 0.00 | 4.42 |
| 18 | trans-1,2-Dichloroethene | 50.000 | 54.055 | -8.1 | 104 | 0.00 | 4.42 |
| 19 | Hexane | 50.000 | 58.857 | -17.7 | 112 | 0.00 | 4.48 |
| | | AvgRF | CCRF | %Dev | | | |
| 20 | Methyl Tert Butyl Ether | 0.824 | 0.845 | -2.5 | 107 | 0.00 | 4.51 |
| | | Amount | Calc. | %Drift | | | |
| 21 | Acetonitrile | 500.000 | 509.066 | -1.8 | 103 | 0.00 | 4.79 |
| | | AvgRF | CCRF | %Dev | | | |
| 22 | Di-isopropyl ether | 0.830 | 0.873 | -5.2 | 106 | 0.00 | 4.88 |
| 23 | Chloroprene | 0.596 | 0.592 | 0.7 | 99 | 0.00 | 5.02 |
| | | Amount | Calc. | %Drift | | | |
| 24 P | 1,1-Dichloroethane | 50.000 | 53.690 | -7.4 | 104 | 0.00 | 5.05 |

# Continuing Calibration Summary

**Job Number:** FA33878 **Sample:** VC4595-ECC4595
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115600.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|---|
| 25 | | Acrylonitrile | 0.060 | 0.058 | 3.3 | 105 | 0.00 | 5.11 |
| 26 | | ETBE | 0.868 | 0.908 | -4.6 | 106 | 0.00 | 5.25 |
| | | | Amount | Calc. | %Drift | | | |
| 27 | | Vinyl acetate | 250.000 | 208.086 | 16.8 | 85 | 0.00 | 5.28 |
| | | | AvgRF | CCRF | %Dev | | | |
| 28 | | cis-1,2-Dichloroethene | 0.388 | 0.402 | -3.6 | 106 | 0.00 | 5.59 |
| | | | Amount | Calc. | %Drift | | | |
| 29 | | 2,2-Dichloropropane | 50.000 | 51.131 | -2.3 | 95 | 0.00 | 5.71 |
| | | | AvgRF | CCRF | %Dev | | | |
| 30 | | Bromochloromethane | 0.173 | 0.172 | 0.6 | 106 | 0.00 | 5.81 |
| 31 | | Cyclohexane | 0.522 | 0.547 | -4.8 | 109 | 0.00 | 5.81 |
| | | | Amount | Calc. | %Drift | | | |
| 32 | C | Chloroform | 50.000 | 53.430 | -6.9 | 107 | 0.00 | 5.87 |
| | | | AvgRF | CCRF | %Dev | | | |
| 33 | | Ethyl acetate | 0.153 | 0.151 | 1.3 | 102 | 0.00 | 5.96 |
| | | | Amount | Calc. | %Drift | | | |
| 34 | | Tetrahydrofuran | 50.000 | 50.695 | -1.4 | 106 | 0.00 | 6.04 |
| | | | AvgRF | CCRF | %Dev | | | |
| 35 | S | Dibromofluoromethane | 0.292 | 0.287 | 1.7 | 102 | 0.00 | 6.06 |
| 36 | | Carbon Tetrachloride | 0.609 | 0.601 | 1.3 | 99 | 0.00 | 6.02 |
| | | | Amount | Calc. | %Drift | | | |
| 37 | | 1,1,1-Trichloroethane | 50.000 | 49.501 | 1.0 | 98 | 0.00 | 6.09 |
| | | | AvgRF | CCRF | %Dev | | | |
| 38 | | 2-Butanone | 0.089 | 0.083 | 6.7 | 96 | 0.00 | 6.18 |
| 39 | | 1,1-Dichloropropene | 0.453 | 0.455 | -0.4 | 101 | 0.00 | 6.21 |
| | | | Amount | Calc. | %Drift | | | |
| 40 | | Propionitrile | 500.000 | 479.485 | 4.1 | 98 | 0.00 | 6.51 |
| | | | AvgRF | CCRF | %Dev | | | |
| 41 | | Methacrylonitrile | 0.109 | 0.104 | 4.6 | 96 | 0.00 | 6.52 |
| 42 | | Benzene | 1.220 | 1.253 | -2.7 | 103 | 0.00 | 6.48 |
| 43 | | TAME | 0.773 | 0.772 | 0.1 | 101 | 0.00 | 6.56 |
| 44 | S | 1,2-Dichloroethane-d4 | 0.332 | 0.296 | 10.8 | 95 | 0.00 | 6.62 |
| 45 | | 1,2-Dichloroethane | 0.428 | 0.413 | 3.5 | 99 | 0.00 | 6.68 |
| 46 | | Trichloroethene | 0.334 | 0.329 | 1.5 | 98 | 0.00 | 7.06 |
| 47 | | Methylcyclohexane | 0.552 | 0.589 | -6.7 | 107 | 0.00 | 7.05 |
| 48 | | Dibromomethane | 0.191 | 0.182 | 4.7 | 92 | 0.00 | 7.50 |
| 49 | C | 1,2-Dichloropropane | 0.282 | 0.279 | 1.1 | 92 | 0.00 | 7.59 |
| 50 | | Bromodichloromethane | 0.419 | 0.404 | 3.6 | 95 | 0.00 | 7.64 |
| | | | Amount | Calc. | %Drift | | | |
| 51 | | Methyl methacrylate | 50.000 | 51.821 | -3.6 | 111 | 0.00 | 7.77 |
| 52 | | 2-Chloroethyl vinyl ether | 250.000 | 263.421 | -5.4 | 116 | 0.00 | 8.19 |
| | | | AvgRF | CCRF | %Dev | | | |
| 53 | | cis-1,3-Dichloropropene | 0.392 | 0.442 | -12.8 | 111 | 0.00 | 8.27 |

# Continuing Calibration Summary

**Job Number:** FA33878 **Sample:** VC4595-ECC4595
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115600.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 54 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 113 | 0.00 | 10.00 |
| 55 | S | Toluene-d8 | 1.452 | 1.413 | 2.7 | 108 | 0.00 | 8.45 |
| 56 | C | Toluene | 1.691 | 1.742 | -3.0 | 108 | 0.00 | 8.51 |
| 57 | | 2-Nitropropane | 0.086 | 0.082 | 4.7 | 103 | 0.00 | 8.74 |
| 58 | | 4-Methyl-2-pentanone | 0.290 | 0.290 | 0.0 | 101 | 0.00 | 8.87 |
| 59 | | trans-1,3-Dichloropropene | 0.417 | 0.436 | -4.6 | 116 | 0.00 | 8.92 |
| 60 | | Tetrachloroethene | 0.426 | 0.423 | 0.7 | 112 | 0.00 | 8.89 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 61 | | Ethyl methacrylate | 50.000 | 45.707 | 8.6 | 106 | 0.00 | 9.04 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 62 | | 1,1,2-Trichloroethane | 0.268 | 0.269 | -0.4 | 110 | 0.00 | 9.08 |
| 63 | | Dibromochloromethane | 0.371 | 0.387 | -4.3 | 113 | 0.00 | 9.26 |
| 64 | | 1,3-Dichloropropane | 0.487 | 0.521 | -7.0 | 116 | 0.00 | 9.36 |
| 65 | | 1,2-Dibromoethane | 0.285 | 0.305 | -7.0 | 120 | 0.00 | 9.52 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 66 | | 2-hexanone | 250.000 | 235.339 | 5.9 | 107 | 0.00 | 9.69 |
| 67 | | 1-Chlorohexane | 50.000 | 50.270 | -0.5 | 107 | 0.00 | 9.97 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 68 | C | Ethylbenzene | 1.773 | 1.797 | -1.4 | 106 | 0.00 | 10.03 |
| 69 | P | Chlorobenzene | 0.999 | 1.002 | -0.3 | 109 | 0.00 | 10.02 |
| 70 | | 1,1,1,2-Tetrachloroethane | 0.461 | 0.467 | -1.3 | 108 | 0.00 | 10.08 |
| 71 | | m,p-Xylene | 1.293 | 1.343 | -3.9 | 103 | 0.00 | 10.17 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 72 | | o-Xylene | 50.000 | 49.446 | 1.1 | 106 | 0.00 | 10.61 |
| 73 | | Styrene | 50.000 | 49.939 | 0.1 | 107 | 0.00 | 10.67 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 74 | P | Bromoform | 0.181 | 0.180 | 0.6 | 115 | 0.00 | 10.72 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 75 | | Isopropylbenzene | 50.000 | 50.201 | -0.4 | 107 | 0.00 | 10.92 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 76 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 116 | 0.00 | 12.37 |
| 77 | S | 4-Bromofluorobenzene | 0.651 | 0.683 | -4.9 | 121 | 0.00 | 11.23 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 78 | | cis-1,4-Dichloro-2-butene | 50.000 | 44.959 | 10.1 | 117 | 0.00 | 11.28 |
| 79 | | n-Propylbenzene | 50.000 | 45.488 | 9.0 | 102 | 0.00 | 11.34 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 80 | | Bromobenzene | 0.794 | 0.809 | -1.9 | 114 | 0.00 | 11.34 |
| 81 | P | 1,1,2,2-Tetrachloroethane | 0.897 | 0.892 | 0.6 | 113 | 0.00 | 11.42 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 82 | | 1,3,5-Trimethylbenzene | 50.000 | 45.862 | 8.3 | 103 | 0.00 | 11.53 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 83 | | 2-Chlorotoluene | 3.007 | 3.012 | -0.2 | 102 | 0.00 | 11.52 |
| 84 | | trans-1,4-Dichloro-2-Bute | 0.144 | 0.153 | -6.3 | 120 | 0.00 | 11.60 |
| 85 | | 1,2,3-Trichloropropane | 0.236 | 0.227 | 3.8 | 113 | 0.00 | 11.57 |
| 86 | | Cyclohexanone | 0.025 | 0.027 | -8.0 | 117 | 0.00 | 11.63 |
| 87 | | 4-Chlorotoluene | 2.468 | 2.427 | 1.7 | 98 | 0.00 | 11.69 |

# Continuing Calibration Summary

**Job Number:** FA33878 **Sample:** VC4595-ECC4595
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115600.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 88 | tert-Butylbenzene | 50.000 | 46.851 | 6.3 | 106 | 0.00 | 11.87 |
| 89 | 1,2,4-Trimethylbenzene | 50.000 | 43.651 | 12.7 | 100 | 0.00 | 11.94 |
| | | AvgRF | CCRF | %Dev | | | |
| 90 | Pentachloroethane | 0.538 | 0.510 | 5.2 | 100 | 0.00 | 11.91 |
| | | Amount | Calc. | %Drift | | | |
| 91 | sec-Butylbenzene | 50.000 | 49.208 | 1.6 | 108 | 0.00 | 12.05 |
| 92 | 4-Isopropyltoluene | 50.000 | 43.388 | 13.2 | 100 | 0.00 | 12.19 |
| | | AvgRF | CCRF | %Dev | | | |
| 93 | 1,3-Dichlorobenzene | 1.571 | 1.453 | 7.5 | 100 | 0.00 | 12.30 |
| 94 | 1,4-Dichlorobenzene | 1.514 | 1.367 | 9.7 | 101 | 0.00 | 12.39 |
| | | Amount | Calc. | %Drift | | | |
| 95 | n-Butylbenzene | 50.000 | 40.517 | 19.0 | 90 | 0.00 | 12.63 |
| | | AvgRF | CCRF | %Dev | | | |
| 96 | Benzyl Chloride | 0.305 | 0.278 | 8.9 | 100 | 0.00 | 12.64 |
| 97 | 1,2-Dichlorobenzene | 1.602 | 1.592 | 0.6 | 107 | 0.00 | 12.83 |
| 98 | 1,2-Dibromo-3-Chloropropa | 0.209 | 0.191 | 8.6 | 107 | 0.00 | 13.64 |
| 99 | Hexachlorobutadiene | 0.707 | 0.575 | 18.7 | 91 | 0.00 | 14.22 |
| 100 | 1,2,4-Trichlorobenzene | 1.147 | 0.928 | 19.1 | 85 | 0.00 | 14.26 |
| | | Amount | Calc. | %Drift | | | |
| 101 | Naphthalene | 50.000 | 49.283 | 1.4 | 107 | 0.00 | 14.55 |
| | | AvgRF | CCRF | %Dev | | | |
| 102 | 1,2,3-Trichlorobenzene | 1.177 | 1.069 | 9.2 | 98 | 0.00 | 14.71 |
| 103 I | Tert Butyl Alcohol-d10 | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 4.52 |
| 104 | Ethanol | 0.075 | 0.078 | -4.0 | 109 | 0.02 | 3.60 |
| 105 | Acrolein | 1.568 | 1.717 | -9.5 | 107 | 0.00 | 4.01 |
| 106 | Tert butyl alcohol | 1.272 | 1.308 | -2.8 | 107 | 0.00 | 4.59 |
| 107 | Isobutyl alcohol | 0.244 | 0.236 | 3.3 | 99 | 0.00 | 6.65 |
| 108 | Tert Amyl Alcohol | 0.954 | 1.006 | -5.5 | 105 | 0.00 | 6.75 |
| | | Amount | Calc. | %Drift | | | |
| 109 | 1,4-Dioxane | 1000.000 | 1147.054 | -14.7 | 133 | 0.00 | 7.84 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C0115582.D 051216APP9-C-Soil.m Fri May 13 07:40:54 2016

6.7.3 6

# Initial Calibration Summary



**Job Number:** FA33878 **Sample:** VJ5295-ICC5295
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976451.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

```
                    Response Factor Report  MSVOA6

Method        : C:\msdchem\2\methods\MSJ051216a.M (RTE Integrator)
Title         : SW-846 Method 5030B/8260B & EPA 624
Last Update   : Fri May 13 08:29:47 2016
Response via  : Initial Calibration

Calibration Files
1   =J0976447.D  2   =J0976448.D  3   =J0976449.D  4   =J0976450.D
5   =J0976451.D  6   =J0976452.D  7   =J0976453.D

   Compound             1     2     3     4     5     6     7     Avg   %RSD
-------------------------------------------------------------------------------

1) I   Fluorobenzene         ----------------ISTD---------------------
2)  Dichlorodifluorom 0.144 0.164 0.224 0.182 0.192 0.215 0.214 0.191  15.41
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
             Response Ratio = 0.00000 + 0.18777 *A + 0.01425 *A^2

3)P Chloromethane     0.345 0.237 0.294 0.249 0.261 0.270 0.283 0.277  12.96
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
             Response Ratio = 0.00000 + 0.24537 *A + 0.01857 *A^2

4)C Vinyl Chloride    0.325 0.244 0.322 0.255 0.272 0.293 0.277 0.284  10.95
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9976
             Response Ratio = 0.00000 + 0.28143 *A + -0.00063 *A^2

5)  1,3-Butadiene           0.009 0.005 0.008 0.006 0.005 0.003 0.006  33.33
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9782
             Response Ratio = 0.00000 + 0.00779 *A + -0.00221 *A^2

6)  Bromomethane      0.385 0.229 0.244 0.180 0.168 0.148 0.136 0.213  40.29
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9979
             Response Ratio = 0.00000 + 0.19161 *A + -0.02838 *A^2

7)  Chloroethane      0.195 0.140 0.175 0.127 0.118 0.090       0.141  27.30
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9968
             Response Ratio = 0.00000 + 0.15566 *A + -0.04713 *A^2

8)  Trichlorofluorome 0.343 0.304 0.407 0.338 0.351 0.387 0.375 0.358   9.60
9)  Ethyl Ether       0.255 0.240 0.188 0.193 0.205 0.195 0.196 0.210  12.47
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
             Response Ratio = 0.00000 + 0.20025 *A + -0.00240 *A^2

10)  1,2-Dichlorotrifl 0.359 0.336 0.299 0.274 0.294 0.284 0.290 0.305   9.99
11)C 1,1-Dichloroethen 0.481 0.450 0.380 0.357 0.376 0.376 0.384 0.401  11.50
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
             Response Ratio = 0.00000 + 0.36317 *A + 0.01021 *A^2

12)  Freon 113        0.256 0.314 0.282 0.241 0.258 0.260 0.262 0.268   8.92
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
             Response Ratio = 0.00000 + 0.25253 *A + 0.00498 *A^2

13)  Carbon Disulfide  1.143 0.963 0.855 0.805 0.856 0.849 0.883 0.908  12.60
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
             Response Ratio = 0.00000 + 0.80901 *A + 0.03593 *A^2

14)  Iodomethane      0.601 0.505 0.411 0.406 0.425 0.418 0.438 0.458  15.59
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
             Response Ratio = 0.00000 + 0.40111 *A + 0.01764 *A^2
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15)  Allyl chloride    0.428 0.254 0.328 0.320 0.313 0.340 0.349 0.333  15.61
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.30381 *A + 0.02289 *A^2

16)  Methylene Chlorid 1.148 0.548 0.337 0.331 0.337 0.323 0.321 0.478  64.15
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 0.34330 *A + -0.01175 *A^2

17)  Acetone           0.017 0.017 0.014 0.014 0.015 0.015 0.015 0.015   8.30
18)  Methyl acetate    0.028 0.033 0.026 0.028 0.029 0.029 0.029 0.029   7.36
19)  trans-1,2-Dichlor 0.473 0.398 0.334 0.326 0.341 0.347 0.345 0.366  14.36
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.33830 *A + 0.00375 *A^2

20)  Hexane            0.256 0.266 0.234 0.214 0.230 0.232 0.228 0.237   7.52
21)  Methyl Tert Butyl 0.840 0.839 0.652 0.677 0.718 0.697 0.707 0.733  10.35
22)  Acetonitrile      0.011 0.007 0.011 0.010 0.009 0.010 0.010 0.010  12.78
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
              Response Ratio = 0.00000 + 0.00926 *A + 0.00003 *A^2

23)  Di-isopropyl ethe 0.966 0.889 0.709 0.752 0.804 0.786 0.780 0.812  10.73
24)  Chloroprene       0.426 0.241 0.351 0.327 0.335 0.364 0.384 0.347  16.53
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.30920 *A + 0.03759 *A^2

25)P 1,1-Dichloroethan 0.618 0.533 0.431 0.434 0.467 0.456 0.446 0.484  14.13
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.46518 *A + -0.00884 *A^2

26)  Acrylonitrile     0.052 0.062 0.062 0.062 0.064 0.064 0.060 0.061   6.87
27)  ETBE              0.892 0.935 0.729 0.801 0.861 0.815 0.788 0.832   8.35
28)  Vinyl acetate     0.339 0.394 0.384 0.403 0.396 0.369 0.332 0.374   7.59
29)  cis-1,2-Dichloroe 0.386 0.339 0.268 0.270 0.299 0.303 0.299 0.309  13.37
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.29087 *A + 0.00489 *A^2

30)  2,2-Dichloropropa 0.431 0.417 0.363 0.343 0.374 0.379 0.380 0.384   7.91
31)  Bromochloromethan 0.179 0.165 0.131 0.130 0.139 0.139 0.137 0.146  12.95
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.13819 *A + -0.00049 *A^2

32)  Cyclohexane       0.380 0.435 0.416 0.400 0.452 0.467 0.463 0.430   7.69
33)C Chloroform        0.701 0.626 0.478 0.476 0.512 0.493 0.483 0.538  16.54
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.51118 *A + -0.01365 *A^2

34)  Ethyl acetate     0.142 0.141 0.140 0.139 0.139 0.138 0.132 0.139   2.18
35)  Tetrahydrofuran   0.057 0.057 0.045 0.040 0.043 0.043 0.043 0.047  15.22
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.04189 *A + 0.00055 *A^2

36)S Dibromofluorometh 0.261 0.260 0.254 0.244 0.244 0.246 0.246 0.251   2.92
37)  Carbon Tetrachlor 0.444 0.426 0.367 0.353 0.380 0.385 0.376 0.390   8.39
38)  1,1,1-Trichloroet 0.505 0.491 0.425 0.410 0.437 0.442 0.440 0.450   7.72
39)  2-Butanone        0.082 0.070 0.064 0.063 0.067 0.064 0.062 0.067  10.32
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.06695 *A + -0.00049 *A^2

40)  1,1-Dichloroprope 0.388 0.369 0.322 0.316 0.350 0.359 0.348 0.350   7.26
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41)  tert-Butyl Format 0.164 0.174 0.155 0.169 0.168 0.169 0.164 0.166   3.58
42)  Propionitrile     0.024 0.020 0.023 0.023 0.022 0.023 0.022 0.022   5.98
43)  Methacrylonitrile 0.108 0.085 0.096 0.099 0.091 0.088 0.081 0.093   9.85
44)  Benzene           1.408 1.226 0.983 1.055 1.129 1.071 1.015 1.127  13.06
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 1.15490 *A + -0.06755 *A^2

45)  TAME              0.881 0.828 0.641 0.741 0.792 0.755 0.740 0.768   9.92
46)S 1,2-Dichloroethan 0.309 0.306 0.305 0.294 0.285 0.281 0.271 0.293   5.00
47)  1,2-Dichloroethan 0.512 0.448 0.333 0.347 0.359 0.334 0.316 0.379  19.28
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.37510 *A + -0.02928 *A^2

48)  Trichloroethene   0.375 0.311 0.260 0.262 0.283 0.280 0.270 0.292  13.87
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.28471 *A + -0.00671 *A^2

49)  Methylcyclohexane 0.446 0.502 0.444 0.456 0.506 0.518 0.514 0.484   6.89
50)  Dibromomethane    0.185 0.178 0.133 0.150 0.157 0.151 0.145 0.157  11.59
51)C 1,2-Dichloropropa 0.346 0.295 0.232 0.255 0.277 0.270 0.259 0.276  13.15
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.27783 *A + -0.00871 *A^2

52)  Bromodichlorometh 0.476 0.407 0.310 0.339 0.365 0.357 0.342 0.371  14.79
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.36831 *A + -0.01205 *A^2

53)  Methyl methacryla 0.080 0.102 0.124 0.136 0.132 0.142 0.137 0.122  18.78
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.13536 *A + 0.00166 *A^2

54)  2-Chloroethyl vin 0.099 0.102 0.123 0.135 0.130 0.135 0.128 0.122  12.50
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.13698 *A + -0.00081 *A^2

55)  cis-1,3-Dichlorop 0.456 0.448 0.359 0.395 0.440 0.425 0.407 0.419   8.18

56) I   Chlorobenzene-d5      ----------------ISTD---------------------
57)S Toluene-d8        1.316 1.326 1.301 1.272 1.267 1.259 1.274 1.288   2.04
58)C Toluene           2.105 1.730 1.372 1.391 1.512 1.433 1.348 1.556  17.65
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 1.55430 *A + -0.09968 *A^2

59)  2-Nitropropane    0.064 0.063 0.045 0.052 0.057 0.052 0.051 0.055  12.53
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 0.05617 *A + -0.00049 *A^2

60)  4-Methyl-2-pentan 0.273 0.230 0.211 0.212 0.224 0.200 0.190 0.220  12.23
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.23208 *A + -0.00424 *A^2

61)  trans-1,3-Dichlor 0.478 0.500 0.389 0.441 0.486 0.462 0.445 0.457   8.04
62)  Tetrachloroethene 0.436 0.394 0.337 0.330 0.375 0.376 0.371 0.374   9.49
63)  Ethyl methacrylat 0.230 0.228 0.291 0.332 0.333 0.361 0.355 0.304  18.47
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.33056 *A + 0.01364 *A^2

64)  1,1,2-Trichloroet 0.322 0.286 0.209 0.233 0.251 0.239 0.232 0.253  15.13
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.25028 *A + -0.00886 *A^2
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65)  Dibromochlorometh 0.394 0.361 0.273 0.306 0.336 0.332 0.325 0.332  11.55
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.32884 *A + -0.00125 *A^2

66)  1,3-Dichloropropa 0.651 0.586 0.433 0.467 0.504 0.482 0.460 0.512  15.27
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.51131 *A + -0.02459 *A^2

67)  1,2-Dibromoethane 0.322 0.315 0.241 0.261 0.286 0.277 0.268 0.282  10.33
68)  2-hexanone        0.163 0.157 0.146 0.148 0.156 0.141 0.135 0.149   6.58
69)  1-Chlorohexane    0.392 0.441 0.413 0.418 0.480 0.489 0.479 0.445   8.68
70)C Ethylbenzene      2.367 2.036 1.654 1.670 1.764 1.626 1.486 1.800  16.75
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 1.87803 *A + -0.19256 *A^2

71)P Chlorobenzene     1.424 1.162 0.924 0.968 1.041 0.972 0.927 1.060  17.03
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 1.06091 *A + -0.06602 *A^2

72)  1,1,1,2-Tetrachlo 0.441 0.376 0.295 0.323 0.353 0.338 0.340 0.352  13.17
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.33914 *A + 0.00048 *A^2

73)  m,p-Xylene        1.653 1.473 1.229 1.276 1.330 1.165 1.019 1.306  15.86
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 1.46518 *A + -0.11046 *A^2

74)  o-Xylene          1.506 1.414 1.174 1.286 1.421 1.328 1.265 1.342   8.38
75)  Styrene           1.028 1.056 0.889 1.036 1.134 1.080 1.026 1.035   7.25
76)P Bromoform         0.244 0.229 0.163 0.194 0.221 0.217 0.215 0.212  12.43
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9986
              Response Ratio = 0.00000 + 0.21010 *A + 0.00298 *A^2

77)  Isopropylbenzene  1.739 1.654 1.400 1.520 1.677 1.583 1.480 1.579   7.59
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 1.71145 *A + -0.11087 *A^2


78) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
79)S 4-Bromofluorobenz 0.925 0.919 0.901 0.921 0.916 0.908 0.893 0.912   1.29
80)  cis-1,4-Dichloro- 0.155 0.129 0.141 0.163 0.156 0.161 0.158 0.152   8.06
81)  n-Propylbenzene   4.606 3.862 3.168 3.348 3.602 3.260 2.888 3.534  16.02
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
              Response Ratio = 0.00000 + 3.88231 *A + -0.48609 *A^2

82)  Bromobenzene      1.131 0.960 0.704 0.771 0.829 0.792 0.761 0.850  17.35
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.83711 *A + -0.03685 *A^2

83)P 1,1,2,2-Tetrachlo 0.855 0.733 0.553 0.622 0.663 0.614 0.584 0.661  15.68
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.67616 *A + -0.04541 *A^2

84)  1,3,5-Trimethylbe 3.139 2.763 2.325 2.525 2.755 2.537 2.347 2.627  10.83
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 2.85092 *A + -0.24552 *A^2

85)  2-Chlorotoluene   3.404 2.852 2.271 2.434 2.574 2.330 2.143 2.573  16.81
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
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                Response Ratio = 0.00000 + 2.71617 *A + -0.28314 *A^2

 86)  trans-1,4-Dichlor 0.129 0.156 0.122 0.145 0.160 0.151 0.149 0.145   9.72
 87)  1,2,3-Trichloropr 0.219 0.194 0.147 0.169 0.172 0.163 0.156 0.174  14.15
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
                Response Ratio = 0.00000 + 0.17809 *A + -0.01099 *A^2

 88)  Cyclohexanone     0.008 0.014 0.011 0.014 0.015 0.016 0.015 0.013  21.85
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
                Response Ratio = 0.00000 + 0.01518 *A + 0.00002 *A^2

 89)  4-Chlorotoluene   2.976 2.552 1.985 2.236 2.393 2.204 2.056 2.343  14.46
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
                Response Ratio = 0.00000 + 2.47620 *A + -0.20594 *A^2

 90)  a-Methyl Styrene  1.203 0.898 1.212 1.360 1.357 1.449 1.409 1.270  14.83
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
                Response Ratio = 0.00000 + 1.36611 *A + 0.02779 *A^2

 91)  tert-Butylbenzene 1.865 1.576 1.336 1.400 1.521 1.452 1.384 1.505  11.89
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
                Response Ratio = 0.00000 + 1.54006 *A + -0.07473 *A^2

 92)  1,2,4-Trimethylbe 3.154 2.878 2.310 2.572 2.739 2.509 2.329 2.642  11.55
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
                Response Ratio = 0.00000 + 2.85211 *A + -0.25717 *A^2

 93)  Pentachloroethane 0.611 0.402 0.476 0.507 0.489 0.514 0.514 0.502  12.32
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
                Response Ratio = 0.00000 + 0.49010 *A + 0.01275 *A^2

 94)  sec-Butylbenzene  3.777 3.321 2.836 3.004 3.273 3.037 2.757 3.143  11.06
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
                Response Ratio = 0.00000 + 3.44296 *A + -0.33234 *A^2

 95)  4-Isopropyltoluen 2.852 2.721 2.329 2.576 2.816 2.611 2.405 2.616   7.57
 96)  1,3-Dichlorobenze 2.026 1.640 1.223 1.340 1.470 1.398 1.339 1.491  18.06
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
                Response Ratio = 0.00000 + 1.47585 *A + -0.06552 *A^2

 97)  1,4-Dichlorobenze 2.336 1.749 1.303 1.433 1.503 1.416 1.350 1.584  22.82
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
                Response Ratio = 0.00000 + 1.54355 *A + -0.09527 *A^2

 98)  n-Butylbenzene    1.658 1.506 1.285 1.448 1.598 1.541 1.465 1.500   7.99
 99)  Benzyl Chloride   0.204 0.219 0.159 0.217 0.253 0.236 0.237 0.218  14.01
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9977
                Response Ratio = 0.00000 + 0.23445 *A + 0.00143 *A^2

100)  1,2-Dichlorobenze 1.926 1.539 1.142 1.270 1.368 1.286 1.238 1.396  18.95
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
                Response Ratio = 0.00000 + 1.37774 *A + -0.06842 *A^2

101)  1,2-Dibromo-3-Chl 0.092 0.098 0.065 0.078 0.090 0.089 0.088 0.086  12.47
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
                Response Ratio = 0.00000 + 0.08580 *A + 0.00120 *A^2

102)  Hexachlorobutadie 0.973 0.664 0.567 0.519 0.595 0.600 0.604 0.646  23.31
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
                Response Ratio = 0.00000 + 0.56415 *A + 0.02096 *A^2
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103)  1,2,4-Trichlorobe 1.291 0.980 0.770 0.819 0.945 0.924 0.893 0.946  17.82
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
               Response Ratio = 0.00000 + 0.92213 *A + -0.01139 *A^2

104)  Naphthalene       1.336 1.262 1.023 1.200 1.391 1.365 1.324 1.272   9.97
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9982
               Response Ratio = 0.00000 + 1.33753 *A + -0.00119 *A^2

105)  1,2,3-Trichlorobe 1.140 0.863 0.657 0.695 0.795 0.770 0.763 0.812  19.62
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
               Response Ratio = 0.00000 + 0.76095 *A + 0.00262 *A^2


106) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
107)  Ethanol                 0.115 0.138 0.125 0.128 0.119 0.117 0.124   6.99
108)  acrolein          2.966 2.220 2.287 2.351 2.299 2.202 2.357  11.69
109)  Tert Butyl Alcoho 1.725 1.532 1.099 1.177 1.285 1.184 1.133 1.305  18.00
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
               Response Ratio = 0.00000 + 1.30058 *A + -0.04146 *A^2

110)  tert Amyl alcohol 0.863 0.963 0.733 0.907 1.042 0.963 0.901 0.910  10.67
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9975
               Response Ratio = 0.00000 + 1.04032 *A + -0.03305 *A^2

111)  Isobutyl alcohol  0.338 0.437 0.407 0.429 0.436 0.398 0.359 0.401   9.72
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
               Response Ratio = 0.00000 + 0.47352 *A + -0.01420 *A^2

112)  1,4-Dioxane       0.117 0.151 0.106 0.126 0.143 0.141 0.129 0.131  11.99
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9971
               Response Ratio = 0.00000 + 0.14623 *A + -0.00190 *A^2

113)  3,3-Dimethyl-1-bu 0.817 0.907 0.839 1.023 1.115 1.069 0.994 0.966  11.84
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
               Response Ratio = 0.00000 + 1.13654 *A + -0.00667 *A^2

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 (#) = Out of Range

          MSJ051216a.M        Fri May 13 08:32:02 2016
```

# Initial Calibration Verification



**Job Number:** FA33878 **Sample:** VJ5295-ICV5295
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976455.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\051216\J0976455.D          Vial: 9
Acq On    : 12 May 2016   1:22 pm                    Operator: darshnap
Sample    : icv5295-5                                Inst    : MSVOA6
Misc      : MS33839,VJ5295,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\2\methods\MSJ051216a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Fri May 13 08:29:47 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | Fluorobenzene | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 7.76 |
| | | Amount | Calc. | %Drift | | | |
| 2 | Dichlorodifluoromethane | 40.000 | 43.267 | -8.2 | 115 | 0.00 | 2.69 |
| 3 P | Chloromethane | 40.000 | 40.982 | -2.5 | 104 | 0.00 | 2.90 |
| 4 C | Vinyl Chloride | 40.000 | 42.135 | -5.3 | 111 | 0.00 | 3.05 |
| 5 | 1,3-Butadiene | 40.000 | 29.686 | 25.8# | 86 | 0.00 | 3.02 |
| 6 | Bromomethane | 40.000 | 40.502 | -1.3 | 103 | 0.00 | 3.47 |
| 7 | Chloroethane | 40.000 | 40.281 | -0.7 | 103 | 0.00 | 3.62 |
| | | AvgRF | CCRF | %Dev | | | |
| 8 | Trichlorofluoromethane | 0.358 | 0.390 | -8.9 | 113 | 0.00 | 3.84 |
| | | Amount | Calc. | %Drift | | | |
| 9 | Ethyl Ether | 40.000 | 37.393 | 6.5 | 92 | 0.00 | 4.12 |
| | | AvgRF | CCRF | %Dev | | | |
| 10 | 1,2-Dichlorotrifluoroetha | 0.305 | 0.269 | 11.8 | 93 | 0.00 | 4.36 |
| | | Amount | Calc. | %Drift | | | |
| 11 C | 1,1-Dichloroethene | 40.000 | 37.460 | 6.3 | 94 | 0.00 | 4.40 |
| 12 | Freon 113 | 40.000 | 32.632 | 18.4 | 82 | 0.01 | 4.48 |
| 13 | Carbon Disulfide | 40.000 | 34.544 | 13.6 | 85 | 0.00 | 4.48 |
| 14 | Iodomethane | 40.000 | 36.390 | 9.0 | 90 | 0.00 | 4.59 |
| 15 | Allyl chloride | 40.000 | 34.797 | 13.0 | 90 | 0.00 | 4.93 |
| 16 | Methylene Chloride | 40.000 | 37.351 | 6.6 | 94 | 0.00 | 5.05 |
| | | AvgRF | CCRF | %Dev | | | |
| 17 | Acetone | 0.015 | 0.013 | 13.3 | 88 | 0.00 | 5.07 |
| 18 | Methyl acetate | 0.029 | 0.027 | 6.9 | 96 | 0.00 | 5.19 |
| | | Amount | Calc. | %Drift | | | |
| 19 | trans-1,2-Dichloroethene | 40.000 | 40.387 | -1.0 | 103 | 0.00 | 5.23 |
| | | AvgRF | CCRF | %Dev | | | |
| 20 | Hexane | 0.237 | 0.199 | 16.0 | 88 | 0.00 | 5.30 |
| 21 | Methyl Tert Butyl Ether | 0.733 | 0.641 | 12.6 | 91 | 0.00 | 5.34 |
| | | Amount | Calc. | %Drift | | | |
| 22 | Acetonitrile | 400.000 | 363.431 | 9.1 | 98 | 0.00 | 5.59 |
| | | AvgRF | CCRF | %Dev | | | |

# Initial Calibration Verification

**Job Number:** FA33878 **Sample:** VJ5295-ICV5295
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976455.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 23 | | Di-isopropyl ether | 0.812 | 0.717 | 11.7 | 91 | 0.00 | 5.72 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 24 | | Chloroprene | 40.000 | 35.924 | 10.2 | 92 | 0.00 | 5.88 |
| 25 | P | 1,1-Dichloroethane | 40.000 | 38.521 | 3.7 | 96 | 0.00 | 5.90 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 26 | | Acrylonitrile | 0.061 | 0.062 | -1.6 | 99 | 0.00 | 5.92 |
| 27 | | ETBE | 0.832 | 0.763 | 8.3 | 90 | 0.00 | 6.12 |
| 28 | | Vinyl acetate | 0.374 | 0.362 | 3.2 | 93 | 0.00 | 6.11 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 29 | | cis-1,2-Dichloroethene | 40.000 | 36.294 | 9.3 | 91 | 0.00 | 6.48 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 30 | | 2,2-Dichloropropane | 0.384 | 0.356 | 7.3 | 97 | 0.00 | 6.61 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 31 | | Bromochloromethane | 40.000 | 35.981 | 10.0 | 91 | 0.00 | 6.69 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 32 | | Cyclohexane | 0.430 | 0.376 | 12.6 | 85 | 0.00 | 6.74 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 33 | C | Chloroform | 40.000 | 37.100 | 7.2 | 92 | 0.00 | 6.74 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 34 | | Ethyl acetate | 0.139 | 0.137 | 1.4 | 101 | 0.00 | 6.81 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 35 | | Tetrahydrofuran | 40.000 | 37.816 | 5.5 | 95 | 0.00 | 6.92 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 36 | S | Dibromofluoromethane | 0.251 | 0.245 | 2.4 | 102 | 0.00 | 6.93 |
| 37 | | Carbon Tetrachloride | 0.390 | 0.329 | 15.6 | 88 | 0.00 | 6.93 |
| 38 | | 1,1,1-Trichloroethane | 0.450 | 0.373 | 17.1 | 87 | 0.00 | 6.99 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 39 | | 2-Butanone | 200.000 | 189.032 | 5.5 | 94 | 0.00 | 7.03 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 40 | | 1,1-Dichloropropene | 0.350 | 0.304 | 13.1 | 88 | 0.00 | 7.10 |
| 41 | | tert-Butyl Formate | 0.166 | 0.151 | 9.0 | 91 | 0.00 | 7.19 |
| 42 | | Propionitrile | 0.022 | 0.023 | -4.5 | 107 | 0.00 | 7.33 |
| 43 | | Methacrylonitrile | 0.093 | 0.094 | -1.1 | 105 | 0.00 | 7.36 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 44 | | Benzene | 40.000 | 37.618 | 6.0 | 94 | 0.00 | 7.36 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 45 | | TAME | 0.768 | 0.694 | 9.6 | 89 | 0.00 | 7.43 |
| 46 | S | 1,2-Dichloroethane-d4 | 0.293 | 0.290 | 1.0 | 103 | 0.00 | 7.48 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 47 | | 1,2-Dichloroethane | 40.000 | 39.106 | 2.2 | 97 | 0.00 | 7.55 |
| 48 | | Trichloroethene | 40.000 | 37.599 | 6.0 | 94 | 0.00 | 7.94 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 49 | | Methylcyclohexane | 0.484 | 0.441 | 8.9 | 89 | 0.00 | 7.96 |
| 50 | | Dibromomethane | 0.157 | 0.147 | 6.4 | 95 | 0.00 | 8.36 |

# Initial Calibration Verification

**Job Number:** FA33878 **Sample:** VJ5295-ICV5295
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976455.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|---|
| 51 | C | 1,2-Dichloropropane | 40.000 | 37.423 | 6.4 | 93 | 0.00 | 8.45 |
| 52 | | Bromodichloromethane | 40.000 | 38.335 | 4.2 | 96 | 0.00 | 8.50 |
| 53 | | Methyl methacrylate | 40.000 | 42.878 | -7.2 | 113 | 0.00 | 8.59 |
| 54 | | 2-Chloroethyl vinyl ether | 200.000 | 212.369 | -6.2 | 111 | 0.00 | 9.01 |
| | | | AvgRF | CCRF | %Dev | | | |
| 55 | | cis-1,3-Dichloropropene | 0.419 | 0.419 | 0.0 | 97 | 0.00 | 9.11 |
| 56 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 102 | 0.00 | 10.85 |
| 57 | S | Toluene-d8 | 1.288 | 1.276 | 0.9 | 103 | 0.00 | 9.30 |
| | | | Amount | Calc. | %Drift | | | |
| 58 | C | Toluene | 40.000 | 37.635 | 5.9 | 94 | 0.00 | 9.36 |
| 59 | | 2-Nitropropane | 200.000 | 189.130 | 5.4 | 92 | 0.00 | 9.56 |
| 60 | | 4-Methyl-2-pentanone | 200.000 | 180.684 | 9.7 | 89 | 0.00 | 9.67 |
| | | | AvgRF | CCRF | %Dev | | | |
| 61 | | trans-1,3-Dichloropropene | 0.457 | 0.494 | -8.1 | 104 | 0.00 | 9.73 |
| 62 | | Tetrachloroethene | 0.374 | 0.337 | 9.9 | 91 | 0.00 | 9.76 |
| | | | Amount | Calc. | %Drift | | | |
| 63 | | Ethyl methacrylate | 40.000 | 34.998 | 12.5 | 91 | 0.00 | 9.84 |
| 64 | | 1,1,2-Trichloroethane | 40.000 | 39.309 | 1.7 | 97 | 0.00 | 9.90 |
| 65 | | Dibromochloromethane | 40.000 | 39.103 | 2.2 | 97 | 0.00 | 10.10 |
| 66 | | 1,3-Dichloropropane | 40.000 | 36.729 | 8.2 | 91 | 0.00 | 10.18 |
| | | | AvgRF | CCRF | %Dev | | | |
| 67 | | 1,2-Dibromoethane | 0.282 | 0.266 | 5.7 | 95 | 0.00 | 10.36 |
| 68 | | 2-hexanone | 0.149 | 0.136 | 8.7 | 89 | 0.00 | 10.49 |
| 69 | | 1-Chlorohexane | 0.445 | 0.428 | 3.8 | 91 | 0.00 | 10.80 |
| | | | Amount | Calc. | %Drift | | | |
| 70 | C | Ethylbenzene | 40.000 | 37.746 | 5.6 | 94 | 0.00 | 10.86 |
| 71 | P | Chlorobenzene | 40.000 | 38.983 | 2.5 | 96 | 0.00 | 10.86 |
| 72 | | 1,1,1,2-Tetrachloroethane | 40.000 | 40.088 | -0.2 | 98 | 0.00 | 10.91 |
| 73 | | m,p-Xylene | 80.000 | 77.438 | 3.2 | 96 | 0.00 | 11.00 |
| | | | AvgRF | CCRF | %Dev | | | |
| 74 | | o-Xylene | 1.342 | 1.323 | 1.4 | 95 | 0.00 | 11.44 |
| 75 | | Styrene | 1.035 | 1.061 | -2.5 | 95 | 0.00 | 11.49 |
| | | | Amount | Calc. | %Drift | | | |
| 76 | P | Bromoform | 40.000 | 39.386 | 1.5 | 96 | 0.00 | 11.55 |
| 77 | | Isopropylbenzene | 40.000 | 38.403 | 4.0 | 95 | 0.00 | 11.74 |
| | | | AvgRF | CCRF | %Dev | | | |
| 78 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 13.21 |
| 79 | S | 4-Bromofluorobenzene | 0.912 | 0.918 | -0.7 | 102 | 0.00 | 12.05 |
| 80 | | cis-1,4-Dichloro-2-butene | 0.152 | 0.147 | 3.3 | 95 | 0.00 | 12.09 |
| | | | Amount | Calc. | %Drift | | | |
| 81 | | n-Propylbenzene | 40.000 | 38.366 | 4.1 | 95 | 0.00 | 12.16 |
| 82 | | Bromobenzene | 40.000 | 39.455 | 1.4 | 98 | 0.00 | 12.18 |
| 83 | P | 1,1,2,2-Tetrachloroethane | 40.000 | 38.283 | 4.3 | 94 | 0.00 | 12.22 |
| 84 | | 1,3,5-Trimethylbenzene | 40.000 | 37.435 | 6.4 | 92 | 0.00 | 12.34 |
| 85 | | 2-Chlorotoluene | 40.000 | 39.217 | 2.0 | 96 | 0.00 | 12.35 |

# Initial Calibration Verification

**Job Number:** FA33878 **Sample:** VJ5295-ICV5295
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976455.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|
| 86 | trans-1,4-Dichloro-2-Bute | 0.145 | 0.141 | 2.8 | 89 | 0.00 | 12.40 |

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 87 | 1,2,3-Trichloropropane | 40.000 | 37.130 | 7.2 | 93 | 0.00 | 12.39 |
| 88 | Cyclohexanone | 200.000 | 170.196 | 14.9 | 86 | 0.00 | 12.45 |
| 89 | 4-Chlorotoluene | 40.000 | 38.690 | 3.3 | 95 | 0.00 | 12.52 |
| 90 | a-Methyl Styrene | 40.000 | 0.771 | 98.1# | 2 | 0.15 | 12.75 |
| 91 | tert-Butylbenzene | 40.000 | 36.610 | 8.5 | 91 | 0.00 | 12.68 |
| 92 | 1,2,4-Trimethylbenzene | 40.000 | 38.178 | 4.6 | 94 | 0.00 | 12.75 |
| 93 | Pentachloroethane | 40.000 | 39.604 | 1.0 | 103 | 0.00 | 12.74 |
| 94 | sec-Butylbenzene | 40.000 | 37.805 | 5.5 | 94 | 0.00 | 12.87 |

| | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|
| 95 | 4-Isopropyltoluene | 2.616 | 2.558 | 2.2 | 92 | 0.00 | 13.00 |

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 96 | 1,3-Dichlorobenzene | 40.000 | 38.882 | 2.8 | 96 | 0.00 | 13.13 |
| 97 | 1,4-Dichlorobenzene | 40.000 | 38.035 | 4.9 | 94 | 0.00 | 13.22 |

| | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|
| 98 | n-Butylbenzene | 1.500 | 1.443 | 3.8 | 92 | 0.00 | 13.43 |

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 99 | Benzyl Chloride | 40.000 | 40.705 | -1.8 | 96 | 0.00 | 13.44 |
| 100 | 1,2-Dichlorobenzene | 40.000 | 38.666 | 3.3 | 95 | 0.00 | 13.64 |
| 101 | 1,2-Dibromo-3-Chloropropa | 40.000 | 37.924 | 5.2 | 93 | 0.00 | 14.38 |
| 102 | Hexachlorobutadiene | 40.000 | 36.351 | 9.1 | 90 | 0.00 | 14.93 |
| 103 | 1,2,4-Trichlorobenzene | 40.000 | 37.241 | 6.9 | 91 | 0.00 | 14.97 |
| 104 | Naphthalene | 40.000 | 41.039 | -2.6 | 100 | 0.00 | 15.26 |
| 105 | 1,2,3-Trichlorobenzene | 40.000 | 37.242 | 6.9 | 91 | 0.00 | 15.43 |

| | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|
| 106 I | Tert Butyl Alcohol-d10 | 1.000 | 1.000 | 0.0 | 107 | 0.00 | 5.30 |
| 107 | Ethanol | 0.124 | 0.124 | 0.0 | 103 | 0.01 | 4.29 |
| 108 | acrolein | 2.357 | 2.220 | 5.8 | 101 | 0.00 | 4.76 |

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 109 | Tert Butyl Alcohol | 400.000 | 406.297 | -1.6 | 104 | 0.00 | 5.38 |
| 110 | tert Amyl alcohol | 400.000 | 377.534 | 5.6 | 96 | 0.00 | 7.57 |
| 111 | Isobutyl alcohol | 800.000 | 719.333 | 10.1 | 95 | 0.00 | 7.45 |
| 112 | 1,4-Dioxane | 800.000 | 747.105 | 6.6 | 98 | 0.00 | 8.67 |
| 113 | 3,3-Dimethyl-1-butanol | 2000.000 | 1961.921 | 1.9 | 102 | 0.00 | 10.43 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0976451.D MSJ051216a.M Fri May 13 08:31:49 2016

6.7.5

6

# Continuing Calibration Summary



**Job Number:** FA33878 **Sample:** VJ5295-ECC5295
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976465.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\051216\J0976465.D          Vial: 7
Acq On    : 12 May 2016   5:35 pm                    Operator: darshnap
Sample    : ecc5295-5                                Inst    : MSVOA6
Misc      : MS33859,VJ5295,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\2\methods\MSJ051216a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Fri May 13 08:29:47 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | Fluorobenzene | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 7.76 |
| | | Amount | Calc. | %Drift | | | |
| 2 | Dichlorodifluoromethane | 40.000 | 48.852 | -22.1 | 133 | 0.00 | 2.69 |
| 3 P | Chloromethane | 40.000 | 45.421 | -13.6 | 119 | 0.00 | 2.90 |
| 4 C | Vinyl Chloride | 40.000 | 47.252 | -18.1 | 127 | 0.00 | 3.05 |
| 5 | 1,3-Butadiene | 40.000 | -50.000 | 225.0# | 189 | 0.00 | 3.03 |
| 6 | Bromomethane | 40.000 | 44.673 | -11.7 | 115 | 0.00 | 3.46 |
| 7 | Chloroethane | 40.000 | 50.639 | -26.6 | 121 | 0.00 | 3.61 |
| | | AvgRF | CCRF | %Dev | | | |
| 8 | Trichlorofluoromethane | 0.358 | 0.441 | -23.2 | 130 | 0.00 | 3.84 |
| | | Amount | Calc. | %Drift | | | |
| 9 | Ethyl Ether | 40.000 | 38.770 | 3.1 | 97 | 0.00 | 4.12 |
| | | AvgRF | CCRF | %Dev | | | |
| 10 | 1,2-Dichlorotrifluoroetha | 0.305 | 0.314 | -3.0 | 111 | 0.00 | 4.35 |
| | | Amount | Calc. | %Drift | | | |
| 11 C | 1,1-Dichloroethene | 40.000 | 43.776 | -9.4 | 112 | 0.00 | 4.40 |
| 12 | Freon 113 | 40.000 | 43.915 | -9.8 | 113 | 0.00 | 4.47 |
| 13 | Carbon Disulfide | 40.000 | 43.834 | -9.6 | 112 | 0.00 | 4.48 |
| 14 | Iodomethane | 40.000 | 42.386 | -6.0 | 108 | 0.00 | 4.59 |
| 15 | Allyl chloride | 40.000 | 42.147 | -5.4 | 113 | 0.00 | 4.93 |
| 16 | Methylene Chloride | 40.000 | 38.488 | 3.8 | 99 | 0.00 | 5.05 |
| | | AvgRF | CCRF | %Dev | | | |
| 17 | Acetone | 0.015 | 0.014 | 6.7 | 91 | 0.00 | 5.07 |
| 18 | Methyl acetate | 0.029 | 0.028 | 3.4 | 99 | 0.00 | 5.19 |
| | | Amount | Calc. | %Drift | | | |
| 19 | trans-1,2-Dichloroethene | 40.000 | 41.746 | -4.4 | 108 | 0.00 | 5.23 |
| | | AvgRF | CCRF | %Dev | | | |
| 20 | Hexane | 0.237 | 0.244 | -3.0 | 110 | 0.00 | 5.30 |
| 21 | Methyl Tert Butyl Ether | 0.733 | 0.693 | 5.5 | 100 | 0.00 | 5.34 |
| | | Amount | Calc. | %Drift | | | |
| 22 | Acetonitrile | 400.000 | 400.787 | -0.2 | 111 | 0.00 | 5.60 |
| | | AvgRF | CCRF | %Dev | | | |

# Continuing Calibration Summary

**Job Number:** FA33878 **Sample:** VJ5295-ECC5295
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976465.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 23 | Di-isopropyl ether | 0.812 | 0.774 | 4.7 | 100 | 0.00 | 5.72 |
| | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 24 | Chloroprene | 40.000 | 45.993 | -15.0 | 123 | 0.00 | 5.88 |
| 25 P | 1,1-Dichloroethane | 40.000 | 41.071 | -2.7 | 104 | 0.00 | 5.90 |
| | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 26 | Acrylonitrile | 0.061 | 0.058 | 4.9 | 94 | 0.00 | 5.92 |
| 27 | ETBE | 0.832 | 0.821 | 1.3 | 99 | 0.00 | 6.12 |
| 28 | Vinyl acetate | 0.374 | 0.381 | -1.9 | 100 | 0.00 | 6.11 |
| | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 29 | cis-1,2-Dichloroethene | 40.000 | 40.973 | -2.4 | 105 | 0.00 | 6.47 |
| | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 30 | 2,2-Dichloropropane | 0.384 | 0.412 | -7.3 | 114 | 0.00 | 6.61 |
| | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 31 | Bromochloromethane | 40.000 | 40.357 | -0.9 | 104 | 0.00 | 6.69 |
| | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 32 | Cyclohexane | 0.430 | 0.498 | -15.8 | 114 | 0.00 | 6.73 |
| | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 33 C | Chloroform | 40.000 | 40.433 | -1.1 | 102 | 0.00 | 6.74 |
| | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 34 | Ethyl acetate | 0.139 | 0.133 | 4.3 | 100 | 0.00 | 6.81 |
| | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 35 | Tetrahydrofuran | 40.000 | 37.532 | 6.2 | 96 | 0.00 | 6.92 |
| | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 36 S | Dibromofluoromethane | 0.251 | 0.244 | 2.8 | 104 | 0.00 | 6.93 |
| 37 | Carbon Tetrachloride | 0.390 | 0.397 | -1.8 | 109 | 0.00 | 6.93 |
| 38 | 1,1,1-Trichloroethane | 0.450 | 0.468 | -4.0 | 111 | 0.00 | 7.00 |
| | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 39 | 2-Butanone | 200.000 | 189.452 | 5.3 | 96 | 0.00 | 7.03 |
| | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 40 | 1,1-Dichloropropene | 0.350 | 0.375 | -7.1 | 111 | 0.00 | 7.10 |
| 41 | tert-Butyl Formate | 0.166 | 0.169 | -1.8 | 104 | 0.00 | 7.19 |
| 42 | Propionitrile | 0.022 | 0.022 | 0.0 | 106 | 0.00 | 7.33 |
| 43 | Methacrylonitrile | 0.093 | 0.091 | 2.2 | 103 | 0.00 | 7.36 |
| | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 44 | Benzene | 40.000 | 40.668 | -1.7 | 103 | 0.00 | 7.36 |
| | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 45 | TAME | 0.768 | 0.748 | 2.6 | 98 | 0.00 | 7.43 |
| 46 S | 1,2-Dichloroethane-d4 | 0.293 | 0.286 | 2.4 | 104 | 0.00 | 7.48 |
| | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 47 | 1,2-Dichloroethane | 40.000 | 38.401 | 4.0 | 98 | 0.00 | 7.55 |
| 48 | Trichloroethene | 40.000 | 42.013 | -5.0 | 107 | 0.00 | 7.94 |
| | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 49 | Methylcyclohexane | 0.484 | 0.552 | -14.0 | 113 | 0.00 | 7.96 |
| 50 | Dibromomethane | 0.157 | 0.147 | 6.4 | 97 | 0.00 | 8.36 |

# Continuing Calibration Summary

**Job Number:** FA33878 **Sample:** VJ5295-ECC5295
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976465.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|---|
| 51 | C | 1,2-Dichloropropane | 40.000 | 38.848 | 2.9 | 99 | 0.00 | 8.45 |
| 52 | | Bromodichloromethane | 40.000 | 39.378 | 1.6 | 100 | 0.00 | 8.50 |
| 53 | | Methyl methacrylate | 40.000 | 39.878 | 0.3 | 107 | 0.00 | 8.59 |
| 54 | | 2-Chloroethyl vinyl ether | 200.000 | 199.915 | 0.0 | 107 | 0.00 | 9.01 |
| | | | AvgRF | CCRF | %Dev | | | |
| 55 | | cis-1,3-Dichloropropene | 0.419 | 0.422 | -0.7 | 99 | 0.00 | 9.11 |
| 56 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 105 | 0.00 | 10.85 |
| 57 | S | Toluene-d8 | 1.288 | 1.256 | 2.5 | 104 | 0.00 | 9.30 |
| | | | Amount | Calc. | %Drift | | | |
| 58 | C | Toluene | 40.000 | 40.979 | -2.4 | 104 | 0.00 | 9.36 |
| 59 | | 2-Nitropropane | 200.000 | 188.762 | 5.6 | 94 | 0.00 | 9.56 |
| 60 | | 4-Methyl-2-pentanone | 200.000 | 189.072 | 5.5 | 95 | 0.00 | 9.67 |
| | | | AvgRF | CCRF | %Dev | | | |
| 61 | | trans-1,3-Dichloropropene | 0.457 | 0.456 | 0.2 | 98 | 0.00 | 9.74 |
| 62 | | Tetrachloroethene | 0.374 | 0.387 | -3.5 | 108 | 0.00 | 9.76 |
| | | | Amount | Calc. | %Drift | | | |
| 63 | | Ethyl methacrylate | 40.000 | 40.456 | -1.1 | 108 | 0.00 | 9.84 |
| 64 | | 1,1,2-Trichloroethane | 40.000 | 39.417 | 1.5 | 100 | 0.00 | 9.90 |
| 65 | | Dibromochloromethane | 40.000 | 38.691 | 3.3 | 99 | 0.00 | 10.10 |
| 66 | | 1,3-Dichloropropane | 40.000 | 38.423 | 3.9 | 98 | 0.00 | 10.18 |
| | | | AvgRF | CCRF | %Dev | | | |
| 67 | | 1,2-Dibromoethane | 0.282 | 0.265 | 6.0 | 97 | 0.00 | 10.36 |
| 68 | | 2-hexanone | 0.149 | 0.142 | 4.7 | 95 | 0.00 | 10.49 |
| 69 | | 1-Chlorohexane | 0.445 | 0.509 | -14.4 | 111 | 0.00 | 10.80 |
| | | | Amount | Calc. | %Drift | | | |
| 70 | C | Ethylbenzene | 40.000 | 40.881 | -2.2 | 104 | 0.00 | 10.86 |
| 71 | P | Chlorobenzene | 40.000 | 40.167 | -0.4 | 102 | 0.00 | 10.86 |
| 72 | | 1,1,1,2-Tetrachloroethane | 40.000 | 40.047 | -0.1 | 101 | 0.00 | 10.91 |
| 73 | | m,p-Xylene | 80.000 | 83.170 | -4.0 | 105 | 0.00 | 11.00 |
| | | | AvgRF | CCRF | %Dev | | | |
| 74 | | o-Xylene | 1.342 | 1.385 | -3.2 | 102 | 0.00 | 11.44 |
| 75 | | Styrene | 1.035 | 1.097 | -6.0 | 101 | 0.00 | 11.48 |
| | | | Amount | Calc. | %Drift | | | |
| 76 | P | Bromoform | 40.000 | 38.660 | 3.4 | 97 | 0.00 | 11.55 |
| 77 | | Isopropylbenzene | 40.000 | 42.432 | -6.1 | 107 | 0.00 | 11.74 |
| | | | AvgRF | CCRF | %Dev | | | |
| 78 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 13.21 |
| 79 | S | 4-Bromofluorobenzene | 0.912 | 0.908 | 0.4 | 103 | 0.00 | 12.05 |
| 80 | | cis-1,4-Dichloro-2-butene | 0.152 | 0.151 | 0.7 | 101 | 0.00 | 12.09 |
| | | | Amount | Calc. | %Drift | | | |
| 81 | | n-Propylbenzene | 40.000 | 42.041 | -5.1 | 105 | 0.00 | 12.16 |
| 82 | | Bromobenzene | 40.000 | 39.669 | 0.8 | 101 | 0.00 | 12.18 |
| 83 | P | 1,1,2,2-Tetrachloroethane | 40.000 | 38.460 | 3.8 | 97 | 0.00 | 12.22 |
| 84 | | 1,3,5-Trimethylbenzene | 40.000 | 41.602 | -4.0 | 104 | 0.00 | 12.34 |
| 85 | | 2-Chlorotoluene | 40.000 | 40.316 | -0.8 | 101 | 0.00 | 12.35 |

# Continuing Calibration Summary

**Job Number:** FA33878 **Sample:** VJ5295-ECC5295
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976465.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|
| 86 | trans-1,4-Dichloro-2-Bute | 0.145 | 0.145 | 0.0 | 94 | 0.00 | 12.40 |

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 87 | 1,2,3-Trichloropropane | 40.000 | 38.411 | 4.0 | 98 | 0.00 | 12.39 |
| 88 | Cyclohexanone | 200.000 | 152.549 | 23.7 | 79 | 0.00 | 12.45 |
| 89 | 4-Chlorotoluene | 40.000 | 40.647 | -1.6 | 102 | 0.00 | 12.52 |
| 90 | a-Methyl Styrene | 40.000 | 42.836 | -7.1 | 114 | 0.00 | 12.60 |
| 91 | tert-Butylbenzene | 40.000 | 42.017 | -5.0 | 106 | 0.00 | 12.68 |
| 92 | 1,2,4-Trimethylbenzene | 40.000 | 41.128 | -2.8 | 103 | 0.00 | 12.75 |
| 93 | Pentachloroethane | 40.000 | 41.456 | -3.6 | 110 | 0.00 | 12.74 |
| 94 | sec-Butylbenzene | 40.000 | 42.708 | -6.8 | 107 | 0.00 | 12.87 |

| | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|
| 95 | 4-Isopropyltoluene | 2.616 | 2.879 | -10.1 | 106 | 0.00 | 13.00 |

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 96 | 1,3-Dichlorobenzene | 40.000 | 40.555 | -1.4 | 102 | 0.00 | 13.13 |
| 97 | 1,4-Dichlorobenzene | 40.000 | 39.917 | 0.2 | 101 | 0.00 | 13.22 |

| | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|
| 98 | n-Butylbenzene | 1.500 | 1.641 | -9.4 | 107 | 0.00 | 13.43 |

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 99 | Benzyl Chloride | 40.000 | 40.277 | -0.7 | 98 | 0.00 | 13.44 |
| 100 | 1,2-Dichlorobenzene | 40.000 | 39.631 | 0.9 | 100 | 0.00 | 13.64 |
| 101 | 1,2-Dibromo-3-Chloropropa | 40.000 | 36.679 | 8.3 | 92 | 0.00 | 14.38 |
| 102 | Hexachlorobutadiene | 40.000 | 41.327 | -3.3 | 105 | 0.00 | 14.93 |
| 103 | 1,2,4-Trichlorobenzene | 40.000 | 38.658 | 3.4 | 97 | 0.00 | 14.97 |
| 104 | Naphthalene | 40.000 | 38.423 | 3.9 | 96 | 0.00 | 15.26 |
| 105 | 1,2,3-Trichlorobenzene | 40.000 | 39.006 | 2.5 | 97 | 0.00 | 15.43 |

| | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|
| 106 I | Tert Butyl Alcohol-d10 | 1.000 | 1.000 | 0.0 | 108 | 0.00 | 5.30 |
| 107 | Ethanol | 0.124 | 0.124 | 0.0 | 104 | 0.01 | 4.29 |
| 108 | acrolein | 2.357 | 2.229 | 5.4 | 102 | 0.00 | 4.76 |

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 109 | Tert Butyl Alcohol | 400.000 | 385.809 | 3.5 | 100 | 0.00 | 5.38 |
| 110 | tert Amyl alcohol | 400.000 | 375.433 | 6.1 | 96 | 0.00 | 7.57 |
| 111 | Isobutyl alcohol | 800.000 | 767.969 | 4.0 | 102 | 0.00 | 7.46 |
| 112 | 1,4-Dioxane | 800.000 | 833.581 | -4.2 | 109 | 0.00 | 8.67 |
| 113 | 3,3-Dimethyl-1-butanol | 2000.000 | 1928.332 | 3.6 | 101 | 0.00 | 10.43 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0976451.D MSJ051216a.M Fri May 13 09:50:42 2016

# Continuing Calibration Summary



**Job Number:** FA33878 **Sample:** VJ5296-CC5295
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976468.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\051316\J0976468.D          Vial: 1
Acq On    : 13 May 2016   8:58 am                    Operator: darshnap
Sample    : cc5295-5                                 Inst    : MSVOA6
Misc      : MS33839,VJ5296,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\2\methods\MSJ051216a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Fri May 13 08:29:47 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | Fluorobenzene | 1.000 | 1.000 | 0.0 | 104 | 0.00 | 7.76 |
| | | Amount | Calc. | %Drift | | | |
| 2 | Dichlorodifluoromethane | 40.000 | 38.542 | 3.6 | 103 | 0.00 | 2.69 |
| 3 P | Chloromethane | 40.000 | 39.044 | 2.4 | 101 | 0.00 | 2.90 |
| 4 C | Vinyl Chloride | 40.000 | 37.904 | 5.2 | 101 | 0.00 | 3.04 |
| 5 | 1,3-Butadiene | 40.000 | 29.108 | 27.2# | 86 | 0.01 | 3.03 |
| 6 | Bromomethane | 40.000 | 37.749 | 5.6 | 99 | 0.00 | 3.45 |
| 7 | Chloroethane | 40.000 | 39.545 | 1.1 | 103 | 0.00 | 3.62 |
| | | AvgRF | CCRF | %Dev | | | |
| 8 | Trichlorofluoromethane | 0.358 | 0.352 | 1.7 | 104 | 0.00 | 3.84 |
| | | Amount | Calc. | %Drift | | | |
| 9 | Ethyl Ether | 40.000 | 37.947 | 5.1 | 95 | 0.00 | 4.12 |
| | | AvgRF | CCRF | %Dev | | | |
| 10 | 1,2-Dichlorotrifluoroetha | 0.305 | 0.265 | 13.1 | 93 | 0.00 | 4.36 |
| | | Amount | Calc. | %Drift | | | |
| 11 C | 1,1-Dichloroethene | 40.000 | 37.350 | 6.6 | 95 | 0.00 | 4.40 |
| 12 | Freon 113 | 40.000 | 37.066 | 7.3 | 95 | 0.00 | 4.46 |
| 13 | Carbon Disulfide | 40.000 | 36.410 | 9.0 | 92 | 0.00 | 4.47 |
| 14 | Iodomethane | 40.000 | 37.628 | 5.9 | 95 | 0.00 | 4.59 |
| 15 | Allyl chloride | 40.000 | 40.446 | -1.1 | 108 | 0.00 | 4.92 |
| 16 | Methylene Chloride | 40.000 | 37.301 | 6.7 | 96 | 0.00 | 5.04 |
| | | AvgRF | CCRF | %Dev | | | |
| 17 | Acetone | 0.015 | 0.014 | 6.7 | 95 | 0.00 | 5.07 |
| 18 | Methyl acetate | 0.029 | 0.026 | 10.3 | 94 | 0.00 | 5.19 |
| | | Amount | Calc. | %Drift | | | |
| 19 | trans-1,2-Dichloroethene | 40.000 | 36.010 | 10.0 | 93 | 0.00 | 5.22 |
| | | AvgRF | CCRF | %Dev | | | |
| 20 | Hexane | 0.237 | 0.205 | 13.5 | 92 | 0.00 | 5.29 |
| 21 | Methyl Tert Butyl Ether | 0.733 | 0.640 | 12.7 | 92 | 0.00 | 5.33 |
| | | Amount | Calc. | %Drift | | | |
| 22 | Acetonitrile | 400.000 | 425.141 | -6.3 | 118 | 0.00 | 5.59 |
| | | AvgRF | CCRF | %Dev | | | |

# Continuing Calibration Summary

**Job Number:** FA33878 **Sample:** VJ5296-CC5295
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976468.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 23 | | Di-isopropyl ether | 0.812 | 0.708 | 12.8 | 91 | 0.00 | 5.71 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 24 | | Chloroprene | 40.000 | 42.329 | -5.8 | 112 | 0.00 | 5.87 |
| 25 | P | 1,1-Dichloroethane | 40.000 | 36.015 | 10.0 | 92 | 0.00 | 5.89 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 26 | | Acrylonitrile | 0.061 | 0.060 | 1.6 | 98 | 0.00 | 5.92 |
| 27 | | ETBE | 0.832 | 0.765 | 8.1 | 92 | 0.00 | 6.11 |
| 28 | | Vinyl acetate | 0.374 | 0.384 | -2.7 | 100 | 0.00 | 6.10 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 29 | | cis-1,2-Dichloroethene | 40.000 | 36.042 | 9.9 | 92 | 0.00 | 6.47 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 30 | | 2,2-Dichloropropane | 0.384 | 0.343 | 10.7 | 95 | 0.00 | 6.60 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 31 | | Bromochloromethane | 40.000 | 36.544 | 8.6 | 94 | 0.00 | 6.68 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 32 | | Cyclohexane | 0.430 | 0.397 | 7.7 | 91 | 0.00 | 6.73 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 33 | C | Chloroform | 40.000 | 36.312 | 9.2 | 92 | 0.00 | 6.73 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 34 | | Ethyl acetate | 0.139 | 0.136 | 2.2 | 101 | 0.00 | 6.80 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 35 | | Tetrahydrofuran | 40.000 | 35.357 | 11.6 | 90 | -0.01 | 6.91 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 36 | S | Dibromofluoromethane | 0.251 | 0.248 | 1.2 | 105 | 0.00 | 6.92 |
| 37 | | Carbon Tetrachloride | 0.390 | 0.339 | 13.1 | 93 | 0.00 | 6.93 |
| 38 | | 1,1,1-Trichloroethane | 0.450 | 0.392 | 12.9 | 93 | 0.00 | 6.99 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 39 | | 2-Butanone | 200.000 | 188.825 | 5.6 | 95 | 0.00 | 7.02 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 40 | | 1,1-Dichloropropene | 0.350 | 0.317 | 9.4 | 94 | 0.00 | 7.10 |
| 41 | | tert-Butyl Formate | 0.166 | 0.172 | -3.6 | 106 | 0.00 | 7.18 |
| 42 | | Propionitrile | 0.022 | 0.024 | -9.1 | 114 | 0.00 | 7.33 |
| 43 | | Methacrylonitrile | 0.093 | 0.099 | -6.5 | 113 | 0.00 | 7.35 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 44 | | Benzene | 40.000 | 36.174 | 9.6 | 92 | 0.00 | 7.35 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 45 | | TAME | 0.768 | 0.714 | 7.0 | 93 | 0.00 | 7.43 |
| 46 | S | 1,2-Dichloroethane-d4 | 0.293 | 0.284 | 3.1 | 103 | 0.00 | 7.48 |
| | | ---------- | Amount | Calc. | %Drift | ---------- | | |
| 47 | | 1,2-Dichloroethane | 40.000 | 36.884 | 7.8 | 94 | 0.00 | 7.54 |
| 48 | | Trichloroethene | 40.000 | 35.623 | 10.9 | 91 | 0.00 | 7.93 |
| | | ---------- | AvgRF | CCRF | %Dev | ---------- | | |
| 49 | | Methylcyclohexane | 0.484 | 0.449 | 7.2 | 92 | 0.00 | 7.96 |
| 50 | | Dibromomethane | 0.157 | 0.141 | 10.2 | 93 | 0.00 | 8.36 |

# Continuing Calibration Summary

**Job Number:** FA33878 **Sample:** VJ5296-CC5295
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976468.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|---|
| 51 | C | 1,2-Dichloropropane | 40.000 | 36.047 | 9.9 | 91 | 0.00 | 8.44 |
| 52 | | Bromodichloromethane | 40.000 | 36.017 | 10.0 | 92 | 0.00 | 8.49 |
| 53 | | Methyl methacrylate | 40.000 | 42.219 | -5.5 | 113 | 0.00 | 8.59 |
| 54 | | 2-Chloroethyl vinyl ether | 200.000 | 201.310 | -0.7 | 107 | 0.00 | 9.00 |
| | | | AvgRF | CCRF | %Dev | | | |
| 55 | | cis-1,3-Dichloropropene | 0.419 | 0.391 | 6.7 | 92 | 0.00 | 9.11 |
| 56 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 10.85 |
| 57 | S | Toluene-d8 | 1.288 | 1.283 | 0.4 | 104 | 0.00 | 9.30 |
| | | | Amount | Calc. | %Drift | | | |
| 58 | C | Toluene | 40.000 | 36.259 | 9.4 | 91 | 0.00 | 9.35 |
| 59 | | 2-Nitropropane | 200.000 | 190.882 | 4.6 | 94 | 0.00 | 9.56 |
| 60 | | 4-Methyl-2-pentanone | 200.000 | 192.868 | 3.6 | 95 | 0.00 | 9.67 |
| | | | AvgRF | CCRF | %Dev | | | |
| 61 | | trans-1,3-Dichloropropene | 0.457 | 0.438 | 4.2 | 93 | 0.00 | 9.73 |
| 62 | | Tetrachloroethene | 0.374 | 0.336 | 10.2 | 92 | 0.00 | 9.76 |
| | | | Amount | Calc. | %Drift | | | |
| 63 | | Ethyl methacrylate | 40.000 | 43.528 | -8.8 | 115 | 0.00 | 9.84 |
| 64 | | 1,1,2-Trichloroethane | 40.000 | 37.511 | 6.2 | 94 | 0.00 | 9.90 |
| 65 | | Dibromochloromethane | 40.000 | 37.012 | 7.5 | 93 | 0.00 | 10.10 |
| 66 | | 1,3-Dichloropropane | 40.000 | 36.806 | 8.0 | 92 | 0.00 | 10.18 |
| | | | AvgRF | CCRF | %Dev | | | |
| 67 | | 1,2-Dibromoethane | 0.282 | 0.256 | 9.2 | 92 | 0.00 | 10.36 |
| 68 | | 2-hexanone | 0.149 | 0.147 | 1.3 | 97 | 0.00 | 10.49 |
| 69 | | 1-Chlorohexane | 0.445 | 0.434 | 2.5 | 93 | 0.00 | 10.79 |
| | | | Amount | Calc. | %Drift | | | |
| 70 | C | Ethylbenzene | 40.000 | 36.376 | 9.1 | 92 | 0.00 | 10.86 |
| 71 | P | Chlorobenzene | 40.000 | 36.428 | 8.9 | 91 | 0.00 | 10.86 |
| 72 | | 1,1,1,2-Tetrachloroethane | 40.000 | 37.844 | 5.4 | 93 | 0.00 | 10.91 |
| 73 | | m,p-Xylene | 80.000 | 73.215 | 8.5 | 92 | 0.00 | 11.00 |
| | | | AvgRF | CCRF | %Dev | | | |
| 74 | | o-Xylene | 1.342 | 1.268 | 5.5 | 92 | 0.00 | 11.44 |
| 75 | | Styrene | 1.035 | 1.007 | 2.7 | 91 | 0.00 | 11.48 |
| | | | Amount | Calc. | %Drift | | | |
| 76 | P | Bromoform | 40.000 | 36.825 | 7.9 | 91 | 0.00 | 11.55 |
| 77 | | Isopropylbenzene | 40.000 | 36.407 | 9.0 | 91 | 0.00 | 11.74 |
| | | | AvgRF | CCRF | %Dev | | | |
| 78 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 103 | 0.00 | 13.21 |
| 79 | S | 4-Bromofluorobenzene | 0.912 | 0.910 | 0.2 | 103 | 0.00 | 12.06 |
| 80 | | cis-1,4-Dichloro-2-butene | 0.152 | 0.170 | -11.8 | 112 | 0.00 | 12.09 |
| | | | Amount | Calc. | %Drift | | | |
| 81 | | n-Propylbenzene | 40.000 | 35.692 | 10.8 | 90 | 0.00 | 12.16 |
| 82 | | Bromobenzene | 40.000 | 36.493 | 8.8 | 92 | 0.00 | 12.18 |
| 83 | P | 1,1,2,2-Tetrachloroethane | 40.000 | 36.988 | 7.5 | 93 | 0.00 | 12.22 |
| 84 | | 1,3,5-Trimethylbenzene | 40.000 | 36.005 | 10.0 | 90 | 0.00 | 12.34 |
| 85 | | 2-Chlorotoluene | 40.000 | 35.637 | 10.9 | 90 | 0.00 | 12.35 |

# Continuing Calibration Summary

**Job Number:** FA33878 **Sample:** VJ5296-CC5295
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976468.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|
| 86 | trans-1,4-Dichloro-2-Bute | 0.145 | 0.143 | 1.4 | 93 | 0.00 | 12.40 |

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 87 | 1,2,3-Trichloropropane | 40.000 | 36.430 | 8.9 | 93 | 0.00 | 12.38 |
| 88 | Cyclohexanone | 200.000 | 206.357 | -3.2 | 106 | 0.00 | 12.45 |
| 89 | 4-Chlorotoluene | 40.000 | 35.797 | 10.5 | 90 | 0.00 | 12.52 |
| 90 | a-Methyl Styrene | 40.000 | 42.409 | -6.0 | 112 | 0.00 | 12.60 |
| 91 | tert-Butylbenzene | 40.000 | 36.106 | 9.7 | 91 | 0.00 | 12.68 |
| 92 | 1,2,4-Trimethylbenzene | 40.000 | 36.062 | 9.8 | 91 | 0.00 | 12.75 |
| 93 | Pentachloroethane | 40.000 | 43.073 | -7.7 | 114 | 0.00 | 12.74 |
| 94 | sec-Butylbenzene | 40.000 | 35.959 | 10.1 | 91 | 0.00 | 12.87 |

| | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|
| 95 | 4-Isopropyltoluene | 2.616 | 2.485 | 5.0 | 91 | 0.00 | 13.00 |

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 96 | 1,3-Dichlorobenzene | 40.000 | 35.839 | 10.4 | 90 | 0.00 | 13.13 |
| 97 | 1,4-Dichlorobenzene | 40.000 | 35.757 | 10.6 | 91 | 0.00 | 13.22 |

| | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|
| 98 | n-Butylbenzene | 1.500 | 1.397 | 6.9 | 90 | 0.00 | 13.43 |

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 99 | Benzyl Chloride | 40.000 | 39.827 | 0.4 | 96 | 0.00 | 13.45 |
| 100 | 1,2-Dichlorobenzene | 40.000 | 36.295 | 9.3 | 91 | 0.00 | 13.64 |
| 101 | 1,2-Dibromo-3-Chloropropa | 40.000 | 37.517 | 6.2 | 93 | 0.00 | 14.38 |
| 102 | Hexachlorobutadiene | 40.000 | 36.275 | 9.3 | 91 | 0.00 | 14.93 |
| 103 | 1,2,4-Trichlorobenzene | 40.000 | 35.615 | 11.0 | 89 | 0.00 | 14.97 |
| 104 | Naphthalene | 40.000 | 36.043 | 9.9 | 89 | 0.00 | 15.26 |
| 105 | 1,2,3-Trichlorobenzene | 40.000 | 35.826 | 10.4 | 89 | 0.00 | 15.43 |

| | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|
| 106 I | Tert Butyl Alcohol-d10 | 1.000 | 1.000 | 0.0 | 113 | 0.00 | 5.30 |
| 107 | Ethanol | 0.124 | 0.132 | -6.5 | 116 | 0.00 | 4.28 |
| 108 | acrolein | 2.357 | 2.212 | 6.2 | 106 | 0.00 | 4.75 |

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 109 | Tert Butyl Alcohol | 400.000 | 355.141 | 11.2 | 97 | 0.00 | 5.38 |
| 110 | tert Amyl alcohol | 400.000 | 359.914 | 10.0 | 97 | 0.00 | 7.57 |
| 111 | Isobutyl alcohol | 800.000 | 759.012 | 5.1 | 106 | 0.00 | 7.45 |
| 112 | 1,4-Dioxane | 800.000 | 724.165 | 9.5 | 100 | 0.00 | 8.67 |
| 113 | 3,3-Dimethyl-1-butanol | 2000.000 | 1909.927 | 4.5 | 105 | 0.00 | 10.43 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0976451.D MSJ051216a.M Mon May 16 09:09:23 2016

# Continuing Calibration Summary



**Job Number:** FA33878 **Sample:** VJ5296-ECC5295
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976492.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\051316\J0976492.D          Vial: 20
Acq On    : 13 May 2016   6:41 pm                    Operator: darshnap
Sample    : ecc5295-5                                Inst    : MSVOA6
Misc      : MS33871,VJ5296,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\2\methods\MSJ051216a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Fri May 13 08:29:47 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) | R.T. |
|---|---|---|---|---|---|---|---|
| 1 I | Fluorobenzene | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 7.76 |
| | | Amount | Calc. | %Drift | | | |
| 2 | Dichlorodifluoromethane | 40.000 | 48.230 | -20.6 | 127 | 0.00 | 2.69 |
| 3 P | Chloromethane | 40.000 | 45.340 | -13.4 | 114 | 0.00 | 2.90 |
| 4 C | Vinyl Chloride | 40.000 | 46.876 | -17.2 | 121 | 0.00 | 3.05 |
| 5 | 1,3-Butadiene | 40.000 | -50.000 | 225.0# | 290 | 0.00 | 3.03 |
| 6 | Bromomethane | 40.000 | 44.195 | -10.5 | 110 | 0.00 | 3.47 |
| 7 | Chloroethane | 40.000 | 47.767 | -19.4 | 113 | 0.00 | 3.62 |
| | | AvgRF | CCRF | %Dev | | | |
| 8 | Trichlorofluoromethane | 0.358 | 0.448 | -25.1 | 128 | 0.00 | 3.84 |
| | | Amount | Calc. | %Drift | | | |
| 9 | Ethyl Ether | 40.000 | 39.736 | 0.7 | 96 | 0.00 | 4.12 |
| | | AvgRF | CCRF | %Dev | | | |
| 10 | 1,2-Dichlorotrifluoroetha | 0.305 | 0.311 | -2.0 | 106 | 0.00 | 4.36 |
| | | Amount | Calc. | %Drift | | | |
| 11 C | 1,1-Dichloroethene | 40.000 | 43.738 | -9.3 | 108 | 0.00 | 4.40 |
| 12 | Freon 113 | 40.000 | 43.411 | -8.5 | 108 | 0.00 | 4.47 |
| 13 | Carbon Disulfide | 40.000 | 43.526 | -8.8 | 107 | 0.00 | 4.48 |
| 14 | Iodomethane | 40.000 | 42.478 | -6.2 | 104 | 0.00 | 4.59 |
| 15 | Allyl chloride | 40.000 | 43.907 | -9.8 | 114 | 0.00 | 4.92 |
| 16 | Methylene Chloride | 40.000 | 40.781 | -2.0 | 101 | 0.00 | 5.05 |
| | | AvgRF | CCRF | %Dev | | | |
| 17 | Acetone | 0.015 | 0.015 | 0.0 | 99 | 0.00 | 5.07 |
| 18 | Methyl acetate | 0.029 | 0.029 | 0.0 | 102 | 0.00 | 5.19 |
| | | Amount | Calc. | %Drift | | | |
| 19 | trans-1,2-Dichloroethene | 40.000 | 42.989 | -7.5 | 108 | 0.00 | 5.23 |
| | | AvgRF | CCRF | %Dev | | | |
| 20 | Hexane | 0.237 | 0.250 | -5.5 | 109 | 0.00 | 5.30 |
| 21 | Methyl Tert Butyl Ether | 0.733 | 0.712 | 2.9 | 99 | 0.00 | 5.34 |
| | | Amount | Calc. | %Drift | | | |
| 22 | Acetonitrile | 400.000 | 434.295 | -8.6 | 116 | 0.00 | 5.59 |
| | | AvgRF | CCRF | %Dev | | | |

# Continuing Calibration Summary

**Job Number:** FA33878 **Sample:** VJ5296-ECC5295
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976492.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 23 | | Di-isopropyl ether | 0.812 | 0.796 | 2.0 | 99 | 0.00 | 5.72 |
| | | ---------- | Amount | Calc. | %Drift | | ---------- | |
| 24 | | Chloroprene | 40.000 | 44.315 | -10.8 | 113 | 0.00 | 5.88 |
| 25 | P | 1,1-Dichloroethane | 40.000 | 41.839 | -4.6 | 103 | 0.00 | 5.89 |
| | | ---------- | AvgRF | CCRF | %Dev | | ---------- | |
| 26 | | Acrylonitrile | 0.061 | 0.065 | -6.6 | 102 | 0.00 | 5.92 |
| 27 | | ETBE | 0.832 | 0.835 | -0.4 | 97 | 0.00 | 6.12 |
| 28 | | Vinyl acetate | 0.374 | 0.363 | 2.9 | 92 | 0.00 | 6.11 |
| | | ---------- | Amount | Calc. | %Drift | | ---------- | |
| 29 | | cis-1,2-Dichloroethene | 40.000 | 41.679 | -4.2 | 103 | 0.00 | 6.47 |
| | | ---------- | AvgRF | CCRF | %Dev | | ---------- | |
| 30 | | 2,2-Dichloropropane | 0.384 | 0.390 | -1.6 | 104 | 0.00 | 6.61 |
| | | ---------- | Amount | Calc. | %Drift | | ---------- | |
| 31 | | Bromochloromethane | 40.000 | 40.088 | -0.2 | 99 | 0.00 | 6.69 |
| | | ---------- | AvgRF | CCRF | %Dev | | ---------- | |
| 32 | | Cyclohexane | 0.430 | 0.512 | -19.1 | 113 | 0.00 | 6.73 |
| | | ---------- | Amount | Calc. | %Drift | | ---------- | |
| 33 | C | Chloroform | 40.000 | 40.799 | -2.0 | 100 | 0.00 | 6.74 |
| | | ---------- | AvgRF | CCRF | %Dev | | ---------- | |
| 34 | | Ethyl acetate | 0.139 | 0.136 | 2.2 | 98 | 0.00 | 6.81 |
| | | ---------- | Amount | Calc. | %Drift | | ---------- | |
| 35 | | Tetrahydrofuran | 40.000 | 41.435 | -3.6 | 102 | 0.00 | 6.92 |
| | | ---------- | AvgRF | CCRF | %Dev | | ---------- | |
| 36 | S | Dibromofluoromethane | 0.251 | 0.246 | 2.0 | 101 | 0.00 | 6.93 |
| 37 | | Carbon Tetrachloride | 0.390 | 0.412 | -5.6 | 108 | 0.00 | 6.93 |
| 38 | | 1,1,1-Trichloroethane | 0.450 | 0.467 | -3.8 | 107 | 0.00 | 7.00 |
| | | ---------- | Amount | Calc. | %Drift | | ---------- | |
| 39 | | 2-Butanone | 200.000 | 194.029 | 3.0 | 95 | 0.00 | 7.03 |
| | | ---------- | AvgRF | CCRF | %Dev | | ---------- | |
| 40 | | 1,1-Dichloropropene | 0.350 | 0.377 | -7.7 | 108 | 0.00 | 7.10 |
| 41 | | tert-Butyl Formate | 0.166 | 0.159 | 4.2 | 95 | 0.00 | 7.19 |
| 42 | | Propionitrile | 0.022 | 0.023 | -4.5 | 105 | 0.00 | 7.34 |
| 43 | | Methacrylonitrile | 0.093 | 0.093 | 0.0 | 102 | 0.00 | 7.36 |
| | | ---------- | Amount | Calc. | %Drift | | ---------- | |
| 44 | | Benzene | 40.000 | 41.082 | -2.7 | 100 | 0.00 | 7.36 |
| | | ---------- | AvgRF | CCRF | %Dev | | ---------- | |
| 45 | | TAME | 0.768 | 0.755 | 1.7 | 95 | 0.00 | 7.43 |
| 46 | S | 1,2-Dichloroethane-d4 | 0.293 | 0.284 | 3.1 | 100 | 0.00 | 7.48 |
| | | ---------- | Amount | Calc. | %Drift | | ---------- | |
| 47 | | 1,2-Dichloroethane | 40.000 | 38.342 | 4.1 | 94 | 0.00 | 7.55 |
| 48 | | Trichloroethene | 40.000 | 42.018 | -5.0 | 104 | 0.00 | 7.93 |
| | | ---------- | AvgRF | CCRF | %Dev | | ---------- | |
| 49 | | Methylcyclohexane | 0.484 | 0.554 | -14.5 | 109 | 0.00 | 7.96 |
| 50 | | Dibromomethane | 0.157 | 0.150 | 4.5 | 96 | 0.00 | 8.36 |

# Continuing Calibration Summary

**Job Number:** FA33878 **Sample:** VJ5296-ECC5295
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976492.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|---|
| 51 | C | 1,2-Dichloropropane | 40.000 | 39.852 | 0.4 | 97 | 0.00 | 8.45 |
| 52 | | Bromodichloromethane | 40.000 | 39.043 | 2.4 | 96 | 0.00 | 8.49 |
| 53 | | Methyl methacrylate | 40.000 | 41.327 | -3.3 | 107 | 0.00 | 8.59 |
| 54 | | 2-Chloroethyl vinyl ether | 200.000 | 225.427 | -12.7 | 116 | 0.00 | 9.01 |
| | | | AvgRF | CCRF | %Dev | | | |
| 55 | | cis-1,3-Dichloropropene | 0.419 | 0.421 | -0.5 | 96 | 0.00 | 9.11 |
| 56 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 100 | 0.00 | 10.85 |
| 57 | S | Toluene-d8 | 1.288 | 1.274 | 1.1 | 100 | 0.00 | 9.30 |
| | | | Amount | Calc. | %Drift | | | |
| 58 | C | Toluene | 40.000 | 41.250 | -3.1 | 100 | 0.00 | 9.35 |
| 59 | | 2-Nitropropane | 200.000 | 192.138 | 3.9 | 92 | 0.00 | 9.56 |
| 60 | | 4-Methyl-2-pentanone | 200.000 | 186.850 | 6.6 | 90 | 0.00 | 9.67 |
| | | | AvgRF | CCRF | %Dev | | | |
| 61 | | trans-1,3-Dichloropropene | 0.457 | 0.457 | 0.0 | 94 | 0.00 | 9.73 |
| 62 | | Tetrachloroethene | 0.374 | 0.455 | -21.7 | 121 | 0.00 | 9.76 |
| | | | Amount | Calc. | %Drift | | | |
| 63 | | Ethyl methacrylate | 40.000 | 41.821 | -4.6 | 107 | 0.00 | 9.84 |
| 64 | | 1,1,2-Trichloroethane | 40.000 | 39.167 | 2.1 | 95 | 0.00 | 9.90 |
| 65 | | Dibromochloromethane | 40.000 | 39.448 | 1.4 | 96 | 0.00 | 10.10 |
| 66 | | 1,3-Dichloropropane | 40.000 | 39.490 | 1.3 | 96 | 0.00 | 10.18 |
| | | | AvgRF | CCRF | %Dev | | | |
| 67 | | 1,2-Dibromoethane | 0.282 | 0.271 | 3.9 | 95 | 0.00 | 10.36 |
| 68 | | 2-hexanone | 0.149 | 0.140 | 6.0 | 90 | 0.00 | 10.49 |
| 69 | | 1-Chlorohexane | 0.445 | 0.512 | -15.1 | 107 | 0.00 | 10.80 |
| | | | Amount | Calc. | %Drift | | | |
| 70 | C | Ethylbenzene | 40.000 | 41.342 | -3.4 | 101 | 0.00 | 10.86 |
| 71 | P | Chlorobenzene | 40.000 | 40.337 | -0.8 | 98 | 0.00 | 10.86 |
| 72 | | 1,1,1,2-Tetrachloroethane | 40.000 | 40.294 | -0.7 | 97 | 0.00 | 10.91 |
| 73 | | m,p-Xylene | 80.000 | 83.698 | -4.6 | 101 | 0.00 | 11.00 |
| | | | AvgRF | CCRF | %Dev | | | |
| 74 | | o-Xylene | 1.342 | 1.411 | -5.1 | 99 | 0.00 | 11.44 |
| 75 | | Styrene | 1.035 | 1.087 | -5.0 | 96 | 0.00 | 11.49 |
| | | | Amount | Calc. | %Drift | | | |
| 76 | P | Bromoform | 40.000 | 39.107 | 2.2 | 94 | 0.00 | 11.55 |
| 77 | | Isopropylbenzene | 40.000 | 42.498 | -6.2 | 102 | 0.00 | 11.74 |
| | | | AvgRF | CCRF | %Dev | | | |
| 78 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 101 | 0.00 | 13.21 |
| 79 | S | 4-Bromofluorobenzene | 0.912 | 0.903 | 1.0 | 100 | 0.00 | 12.05 |
| 80 | | cis-1,4-Dichloro-2-butene | 0.152 | 0.146 | 3.9 | 95 | 0.00 | 12.09 |
| | | | Amount | Calc. | %Drift | | | |
| 81 | | n-Propylbenzene | 40.000 | 41.134 | -2.8 | 101 | 0.00 | 12.16 |
| 82 | | Bromobenzene | 40.000 | 39.428 | 1.4 | 97 | 0.00 | 12.18 |
| 83 | P | 1,1,2,2-Tetrachloroethane | 40.000 | 38.432 | 3.9 | 94 | 0.00 | 12.22 |
| 84 | | 1,3,5-Trimethylbenzene | 40.000 | 40.640 | -1.6 | 99 | 0.00 | 12.34 |
| 85 | | 2-Chlorotoluene | 40.000 | 40.114 | -0.3 | 98 | 0.00 | 12.35 |

# Continuing Calibration Summary

**Job Number:** FA33878 **Sample:** VJ5296-ECC5295
**Account:** AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976492.D
**Project:** BMSMC, Building 5 Area, Humacao, PR

| | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|
| 86 | trans-1,4-Dichloro-2-Bute | 0.145 | 0.126 | 13.1 | 80 | 0.00 | 12.40 |

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 87 | 1,2,3-Trichloropropane | 40.000 | 38.406 | 4.0 | 96 | 0.00 | 12.39 |
| 88 | Cyclohexanone | 200.000 | 209.679 | -4.8 | 105 | 0.00 | 12.45 |
| 89 | 4-Chlorotoluene | 40.000 | 40.201 | -0.5 | 98 | 0.00 | 12.52 |
| 90 | a-Methyl Styrene | 40.000 | 42.608 | -6.5 | 111 | 0.00 | 12.60 |
| 91 | tert-Butylbenzene | 40.000 | 40.868 | -2.2 | 101 | 0.00 | 12.68 |
| 92 | 1,2,4-Trimethylbenzene | 40.000 | 40.858 | -2.1 | 100 | 0.00 | 12.75 |
| 93 | Pentachloroethane | 40.000 | 33.598 | 16.0 | 87 | 0.00 | 12.74 |
| 94 | sec-Butylbenzene | 40.000 | 42.124 | -5.3 | 103 | 0.00 | 12.87 |

| | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|
| 95 | 4-Isopropyltoluene | 2.616 | 2.814 | -7.6 | 101 | 0.00 | 13.00 |

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 96 | 1,3-Dichlorobenzene | 40.000 | 39.993 | 0.0 | 98 | 0.00 | 13.13 |
| 97 | 1,4-Dichlorobenzene | 40.000 | 39.179 | 2.1 | 97 | 0.00 | 13.22 |

| | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|
| 98 | n-Butylbenzene | 1.500 | 1.609 | -7.3 | 102 | 0.00 | 13.43 |

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 99 | Benzyl Chloride | 40.000 | 38.179 | 4.6 | 90 | 0.00 | 13.45 |
| 100 | 1,2-Dichlorobenzene | 40.000 | 39.353 | 1.6 | 97 | 0.00 | 13.64 |
| 101 | 1,2-Dibromo-3-Chloropropa | 40.000 | 39.239 | 1.9 | 96 | 0.00 | 14.38 |
| 102 | Hexachlorobutadiene | 40.000 | 42.245 | -5.6 | 105 | 0.00 | 14.93 |
| 103 | 1,2,4-Trichlorobenzene | 40.000 | 39.178 | 2.1 | 96 | 0.00 | 14.97 |
| 104 | Naphthalene | 40.000 | 39.863 | 0.3 | 97 | 0.00 | 15.26 |
| 105 | 1,2,3-Trichlorobenzene | 40.000 | 39.925 | 0.2 | 97 | 0.00 | 15.43 |

| | | AvgRF | CCRF | %Dev | | | |
|---|---|---|---|---|---|---|---|
| 106 I | Tert Butyl Alcohol-d10 | 1.000 | 1.000 | 0.0 | 109 | 0.00 | 5.30 |
| 107 | Ethanol | 0.124 | 0.122 | 1.6 | 104 | 0.00 | 4.28 |
| 108 | acrolein | 2.357 | 4.369 | -85.4# | 203# | 0.00 | 4.76 |

| | | Amount | Calc. | %Drift | | | |
|---|---|---|---|---|---|---|---|
| 109 | Tert Butyl Alcohol | 400.000 | 390.924 | 2.3 | 103 | 0.00 | 5.38 |
| 110 | tert Amyl alcohol | 400.000 | 380.790 | 4.8 | 99 | 0.00 | 7.57 |
| 111 | Isobutyl alcohol | 800.000 | 781.347 | 2.3 | 105 | 0.00 | 7.45 |
| 112 | 1,4-Dioxane | 800.000 | 800.664 | -0.1 | 107 | 0.00 | 8.67 |
| 113 | 3,3-Dimethyl-1-butanol | 2000.000 | 1873.704 | 6.3 | 100 | 0.00 | 10.43 |

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0976451.D MSJ051216a.M Mon May 16 09:11:13 2016

# GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976458.D
Acq On : 12 May 2016 2:55 pm
Operator : darshnap
Sample : fa33878-1 ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 08:06:46 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1245487 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 976323 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.207 | 152 | 509551 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.292 | 65 | 82944 | 250.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 36) Dibromofluoromethane | 6.922 | 113 | 323276 | 51.80 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 103.60% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 385197 | 52.80 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 105.60% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1244101 | 49.48 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 98.96% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 491889 | 52.94 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 105.88% | | | |
| Target Compounds | | | | | | Qvalue |
| 60) 4-Methyl-2-pentanone | 9.684 | 43 | 7845 | 1.73 | ug/L | 83 |
| 70) Ethylbenzene | 10.858 | 91 | 1487835 | 44.66 | ug/L | 98 |
| 73) m,p-Xylene | 10.998 | 91 | 1046680 | 38.86 | ug/L | 94 |
| 77) Isopropylbenzene | 11.740 | 105 | 744706 | 22.97 | ug/L | 97 |
| 81) n-Propylbenzene | 12.160 | 91 | 203965 | 5.22 | ug/L | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

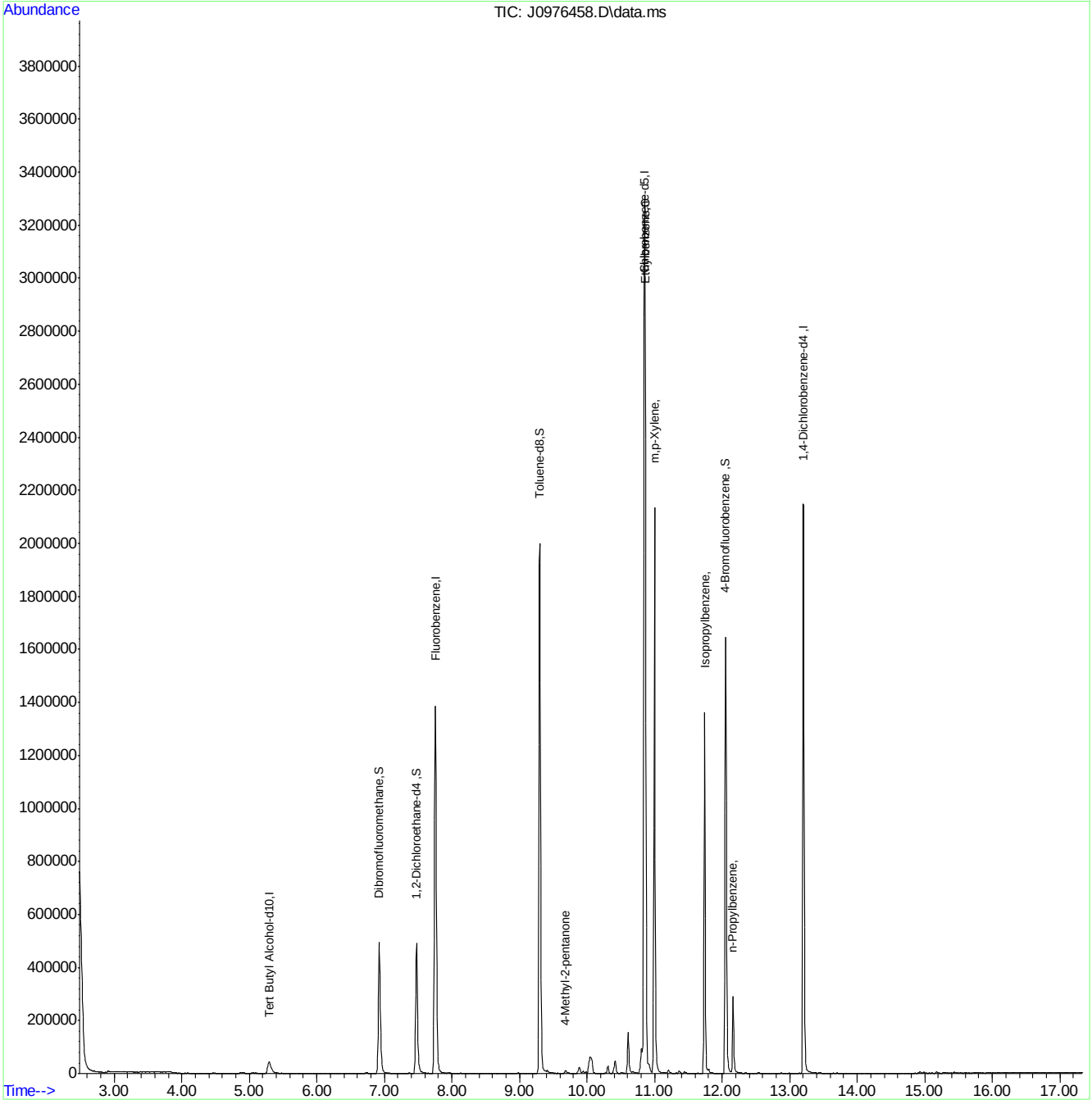


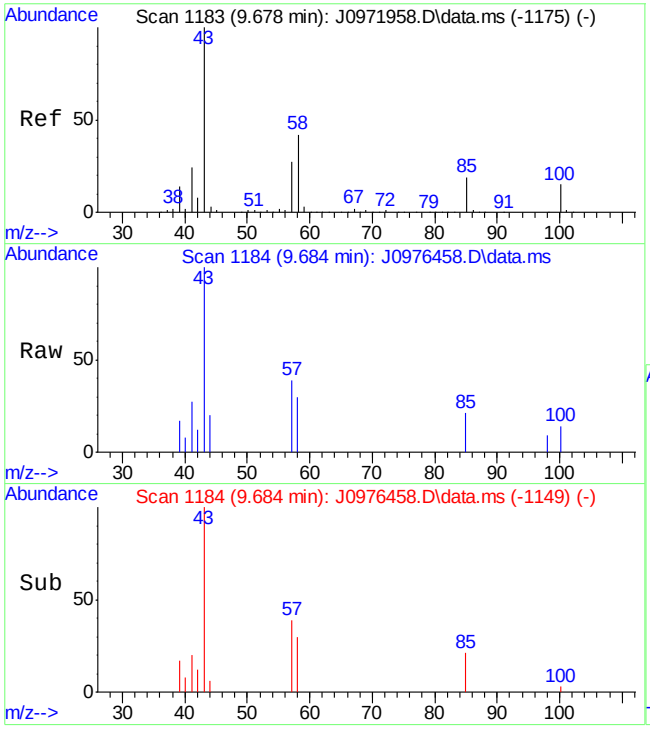
SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976458.D
Acq On : 12 May 2016 2:55 pm
Operator : darshnap
Sample : fa33878-1 ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 08:06:46 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration

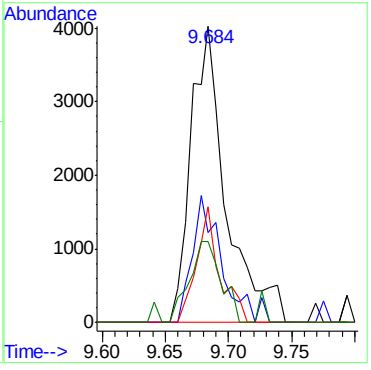


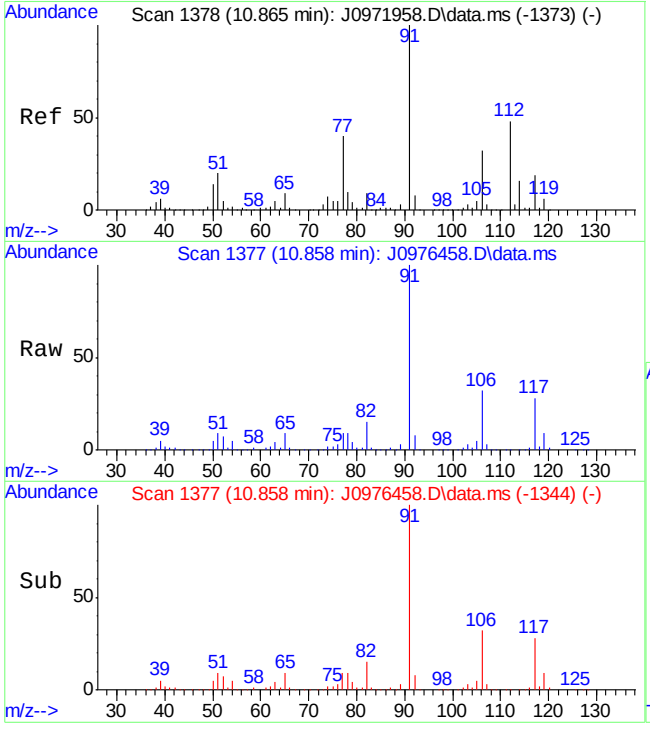



#60
4-Methyl-2-pentanone
Concen: 1.73 ug/L
RT: 9.684 min Scan# 1184
Delta R.T. 0.012 min
Lab File: J0976458.D
Acq: 12 May 2016 2:55 pm

Tgt Ion: 43 Resp: 7845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.2 | 13.2 | 73.2 |
| 57 | 39.1 | 0.0 | 58.5 |
| 41 | 27.4 | 0.0 | 53.5 |

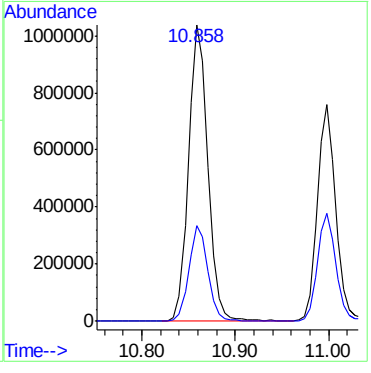


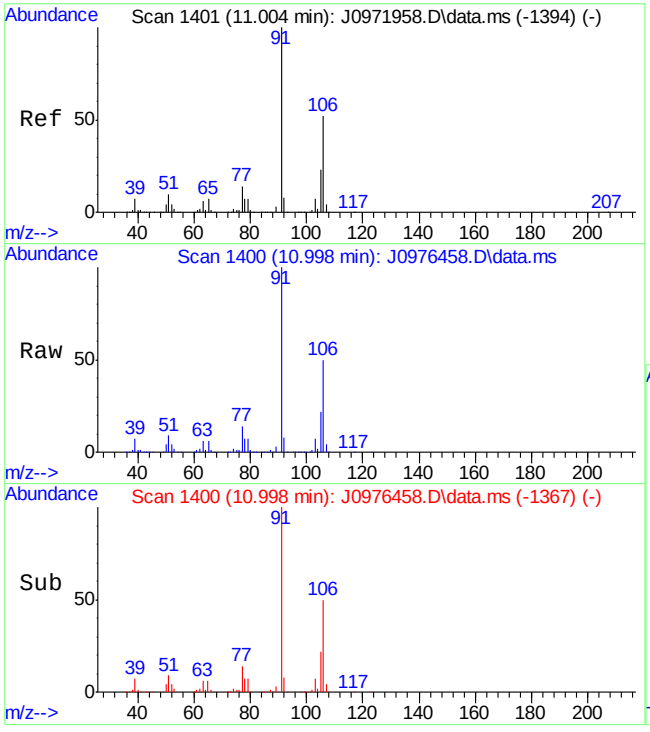




#70
Ethylbenzene
Concen: 44.66 ug/L
RT: 10.858 min Scan# 1377
Delta R.T. 0.000 min
Lab File: J0976458.D
Acq: 12 May 2016 2:55 pm

Tgt Ion: 91 Resp: 1487835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.3 | 3.4 | 63.4 |

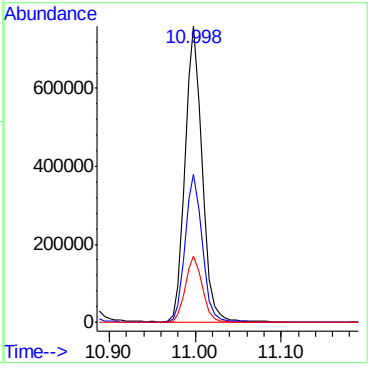


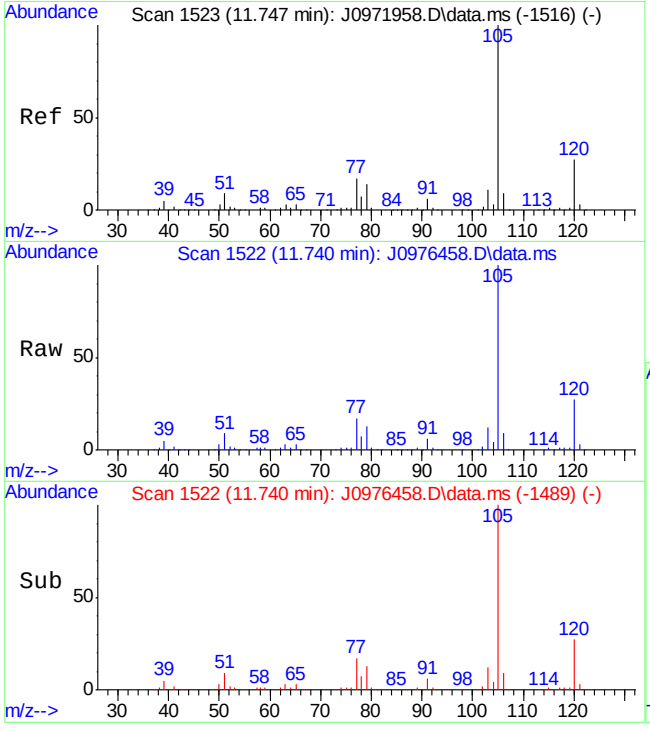



#73
m,p-Xylene
Concen: 38.86 ug/L
RT: 10.998 min Scan# 1400
Delta R.T. 0.000 min
Lab File: J0976458.D
Acq: 12 May 2016 2:55 pm

Tgt Ion: 91 Resp: 1046680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 49.9 | 24.4 | 84.4 |
| 105 | 22.4 | 0.0 | 55.0 |

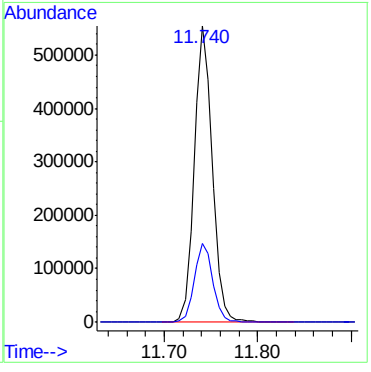


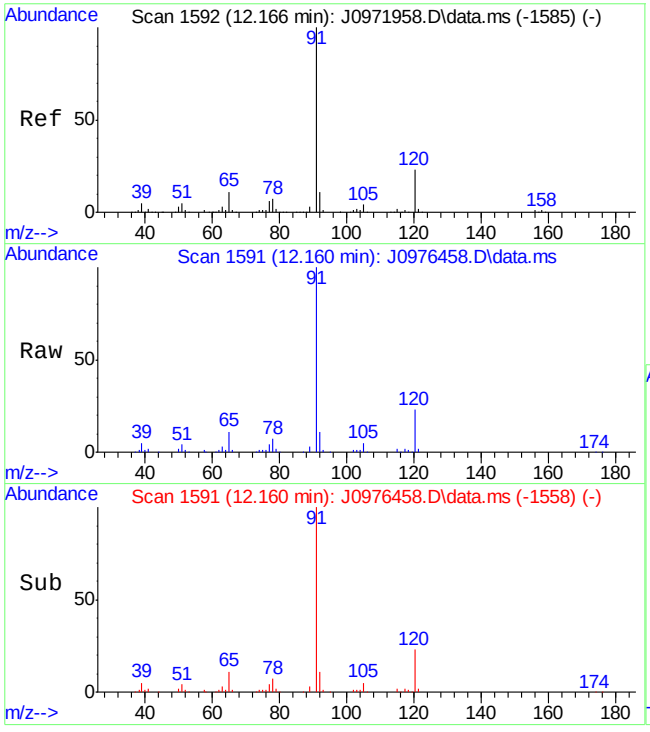




#77
Isopropylbenzene
Concen: 22.97 ug/L
RT: 11.740 min Scan# 1522
Delta R.T. 0.000 min
Lab File: J0976458.D
Acq: 12 May 2016 2:55 pm

Tgt Ion:105 Resp: 744706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.6 | 0.0 | 58.1 |

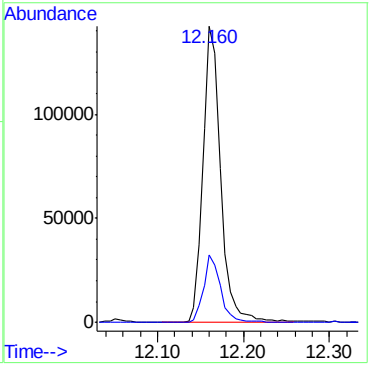





#81
n-Propylbenzene
Concen: 5.22 ug/L
RT: 12.160 min Scan# 1591
Delta R.T. 0.000 min
Lab File: J0976458.D
Acq: 12 May 2016 2:55 pm

Tgt Ion: 91 Resp: 203965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.7 | 0.0 | 54.6 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976459.D
Acq On : 12 May 2016 3:18 pm
Operator : darshnap
Sample : fa33878-2 ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 08:07:28 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration

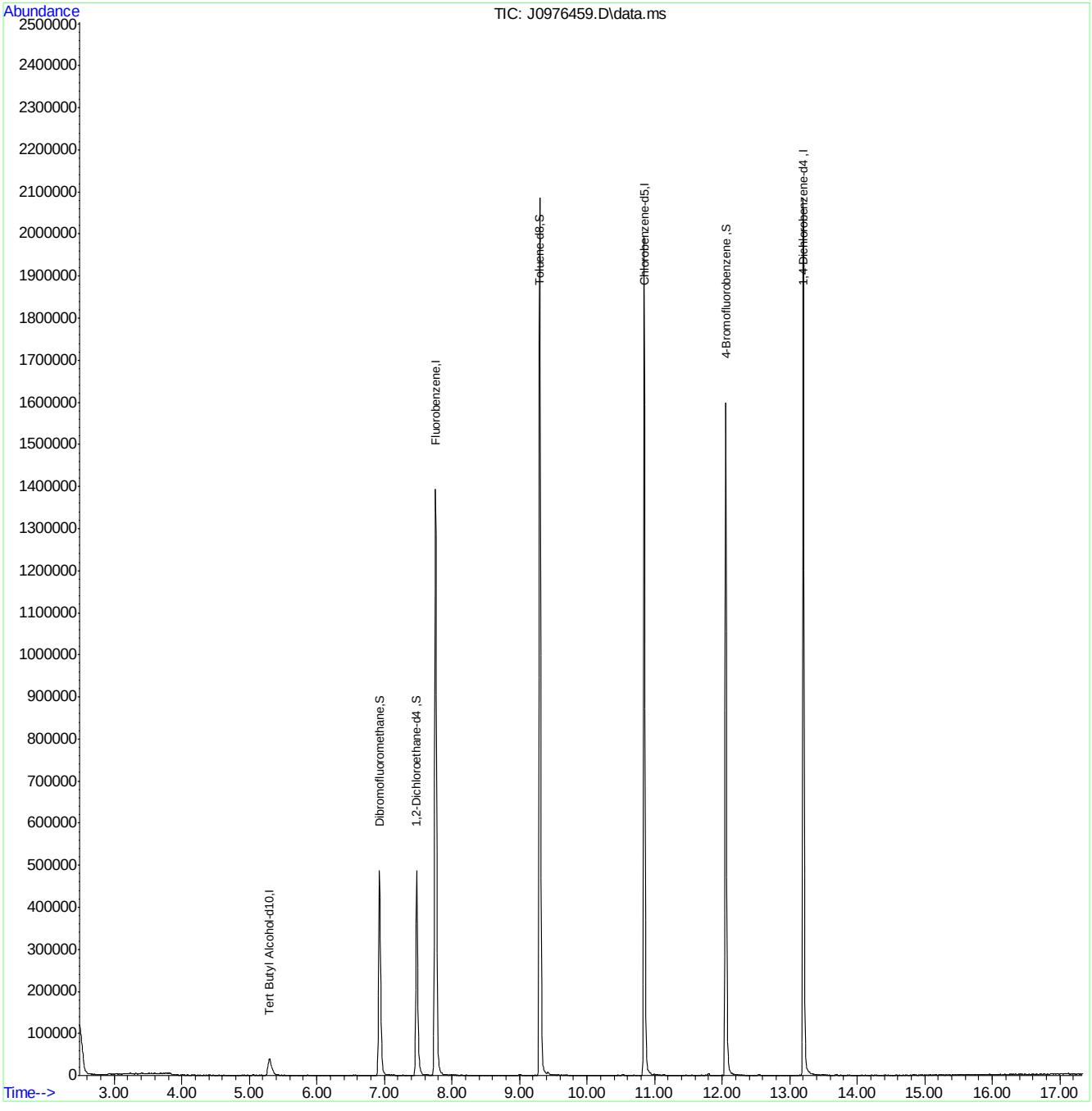
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1238512 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 929443 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.207 | 152 | 489636 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.298 | 65 | 75884 | 250.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 36) Dibromofluoromethane | 6.928 | 113 | 313905 | 50.58 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 101.16% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 380566 | 52.45 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 104.90% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1249350 | 52.19 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 104.38% | | | |
| 79) 4-Bromofluorobenzene | 12.057 | 95 | 473356 | 53.02 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 106.04% | | | |
| Target Compounds | | | | | | Qvalue |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976459.D
Acq On : 12 May 2016 3:18 pm
Operator : darshnap
Sample : fa33878-2 ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 08:07:28 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115596.D
Acq On : 12 May 2016 7:15 pm
Operator : ericp
Sample : FA33878-3 MA,50x Inst : MSVOA5
Misc : ms33860,vc4595,5.49,,100,5,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 13 07:38:07 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

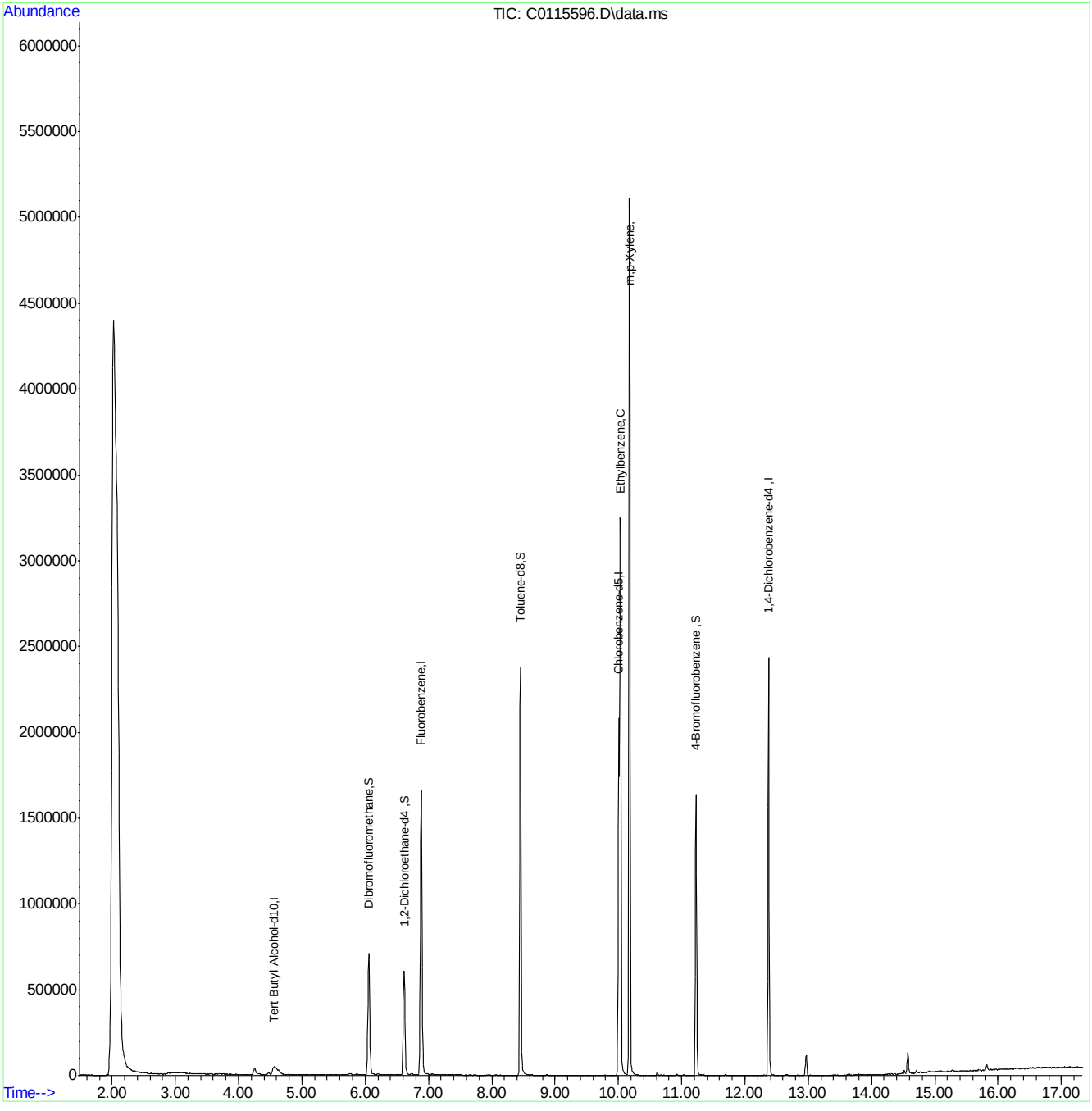
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 6.884 | 96 | 1454671 | 50.00 | ug/Kg | 0.00 |
| 54) Chlorobenzene-d5 | 10.004 | 117 | 975370 | 50.00 | ug/Kg | 0.00 |
| 76) 1,4-Dichlorobenzene-d4 | 12.371 | 152 | 518530 | 50.00 | ug/Kg | 0.00 |
| 103) Tert Butyl Alcohol-d10 | 4.566 | 65 | 137423 | 250.00 | ug/Kg | 0.04 |
| System Monitoring Compounds | | | | | | |
| 35) Dibromofluoromethane | 6.056 | 113 | 452404 | 53.17 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 106.34% | | | |
| 44) 1,2-Dichloroethane-d4 | 6.616 | 65 | 435526 | 45.11 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 72 - 135 | | Recovery = 90.22% | | | |
| 55) Toluene-d8 | 8.453 | 98 | 1376255 | 48.60 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 126 | | Recovery = 97.20% | | | |
| 77) 4-Bromofluorobenzene | 11.227 | 174 | 336421 | 49.87 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 71 - 133 | | Recovery = 99.74% | | | |
| Target Compounds | | | | | | Qvalue |
| 68) Ethylbenzene | 10.035 | 91 | 1925448 | 55.66 | ug/Kg | 93 |
| 71) m,p-Xylene | 10.175 | 91 | 2399951 | 95.13 | ug/Kg | 92 |

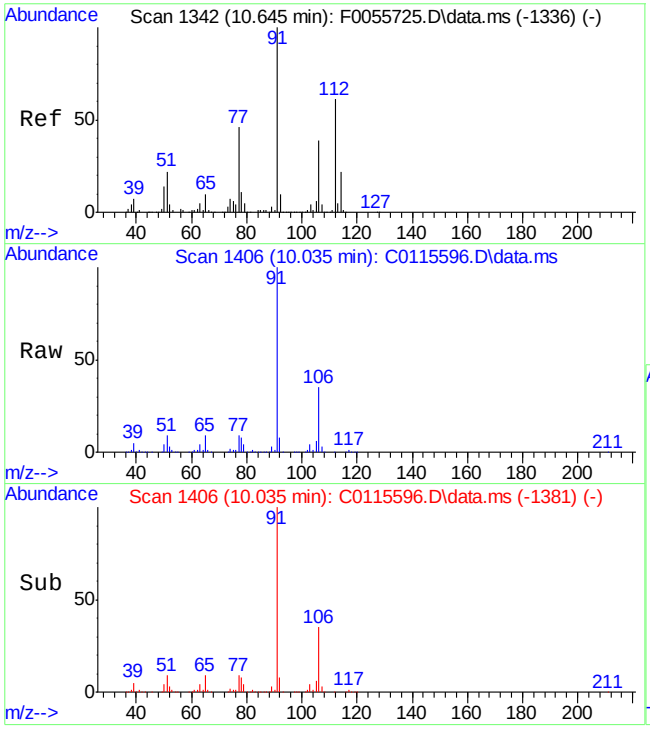
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115596.D
Acq On : 12 May 2016 7:15 pm
Operator : ericp
Sample : FA33878-3 MA,50x Inst : MSVOA5
Misc : ms33860,vc4595,5.49,,100,5,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: May 13 07:38:07 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

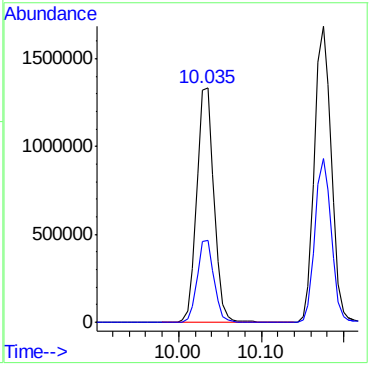


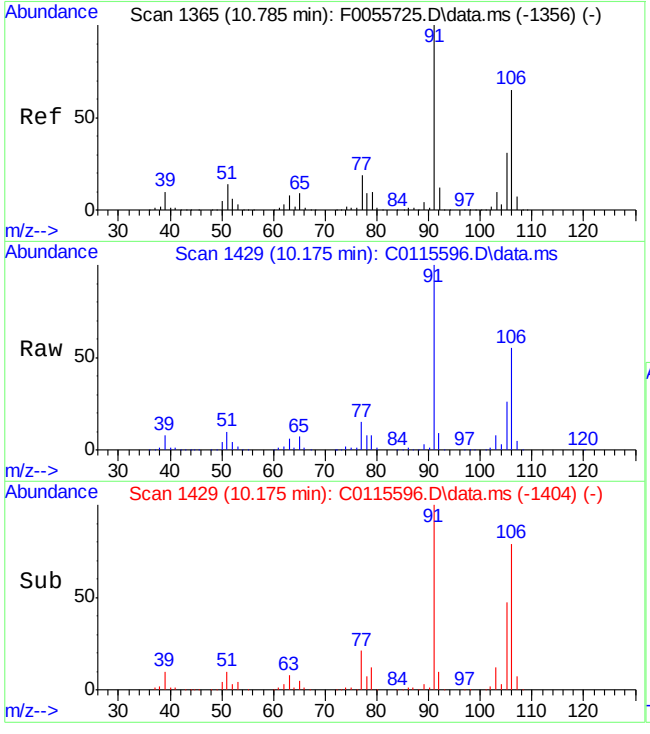



#68
Ethylbenzene
Concen: 55.66 ug/Kg
RT: 10.035 min Scan# 1406
Delta R.T. 0.000 min
Lab File: C0115596.D
Acq: 12 May 2016 7:15 pm

Tgt Ion: 91 Resp: 1925448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 35.1 | 1.3 | 61.3 |

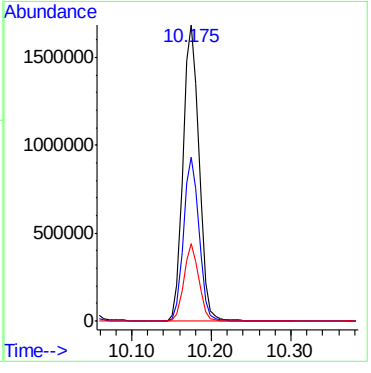



#71
m,p-Xylene
Concen: 95.13 ug/Kg
RT: 10.175 min Scan# 1429
Delta R.T. 0.000 min
Lab File: C0115596.D
Acq: 12 May 2016 7:15 pm

Tgt Ion: 91 Resp: 2399951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 55.3 | 19.3 | 79.3 |
| 105 | 26.0 | 0.0 | 52.4 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115598.D
Acq On : 12 May 2016 8:07 pm
Operator : ericp
Sample : FA33878-4 MA,50x Inst : MSVOA5
Misc : ms33860,vc4595,5.53,,100,5,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: May 13 07:39:24 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

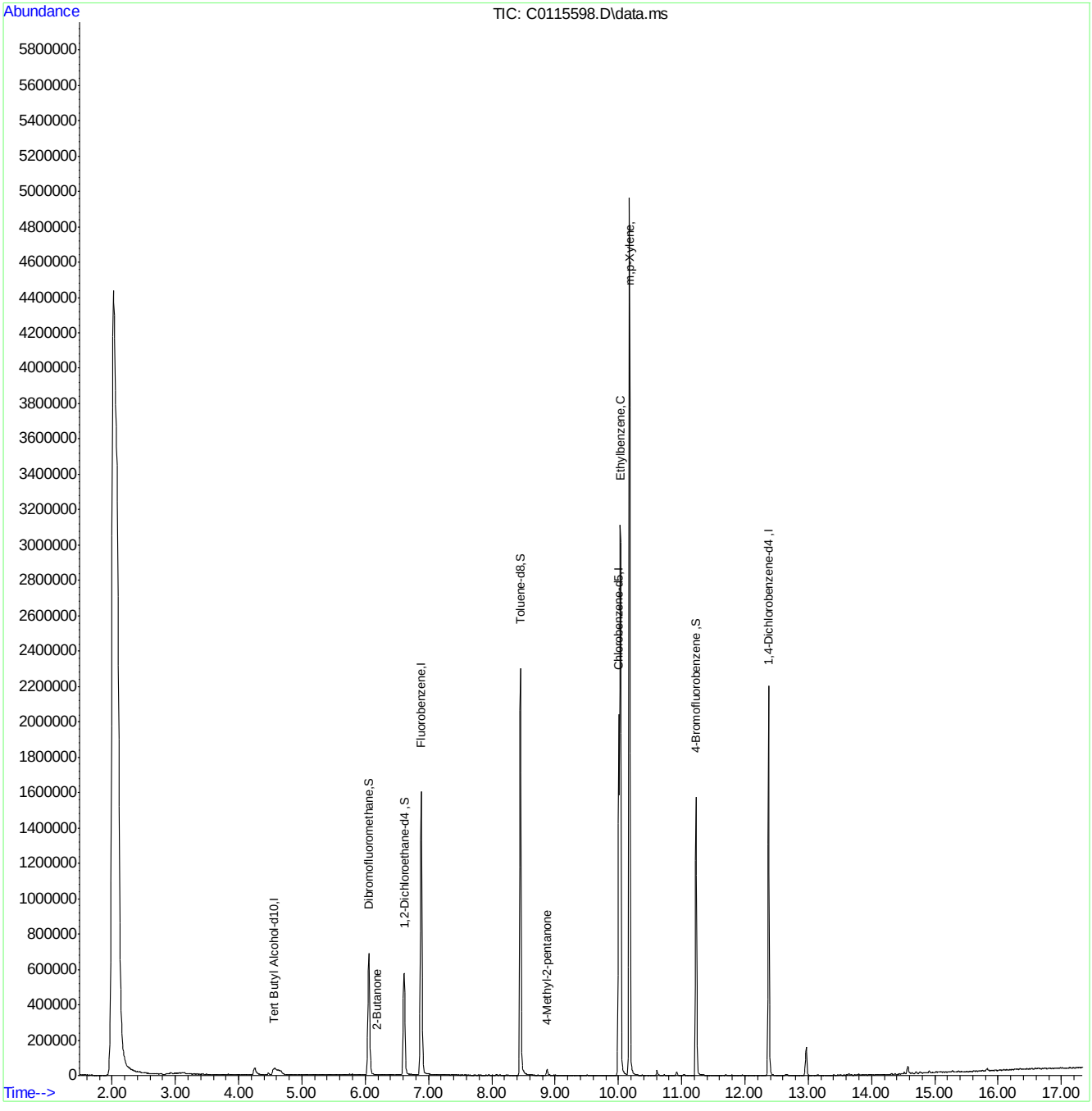
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 6.883 | 96 | 1369765 | 50.00 | ug/Kg | 0.00 |
| 54) Chlorobenzene-d5 | 10.004 | 117 | 926191 | 50.00 | ug/Kg | 0.00 |
| 76) 1,4-Dichlorobenzene-d4 | 12.377 | 152 | 472703 | 50.00 | ug/Kg | 0.00 |
| 103) Tert Butyl Alcohol-d10 | 4.559 | 65 | 119435 | 250.00 | ug/Kg | 0.04 |
| System Monitoring Compounds | | | | | | |
| 35) Dibromofluoromethane | 6.056 | 113 | 432819 | 54.03 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 108.06% | | | |
| 44) 1,2-Dichloroethane-d4 | 6.616 | 65 | 428887 | 47.18 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 72 - 135 | | Recovery = 94.36% | | | |
| 55) Toluene-d8 | 8.453 | 98 | 1286105 | 47.83 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 126 | | Recovery = 95.66% | | | |
| 77) 4-Bromofluorobenzene | 11.227 | 174 | 310767 | 50.53 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 71 - 133 | | Recovery = 101.06% | | | |
| Target Compounds | | | | | | Qvalue |
| 38) 2-Butanone | 6.190 | 43 | 4055 | 1.67 | ug/Kg | 61 |
| 58) 4-Methyl-2-pentanone | 8.873 | 43 | 19784 | 3.69 | ug/Kg | 84 |
| 68) Ethylbenzene | 10.029 | 91 | 1843878 | 56.13 | ug/Kg | 95 |
| 71) m,p-Xylene | 10.175 | 91 | 2363734 | 98.67 | ug/Kg | 93 |

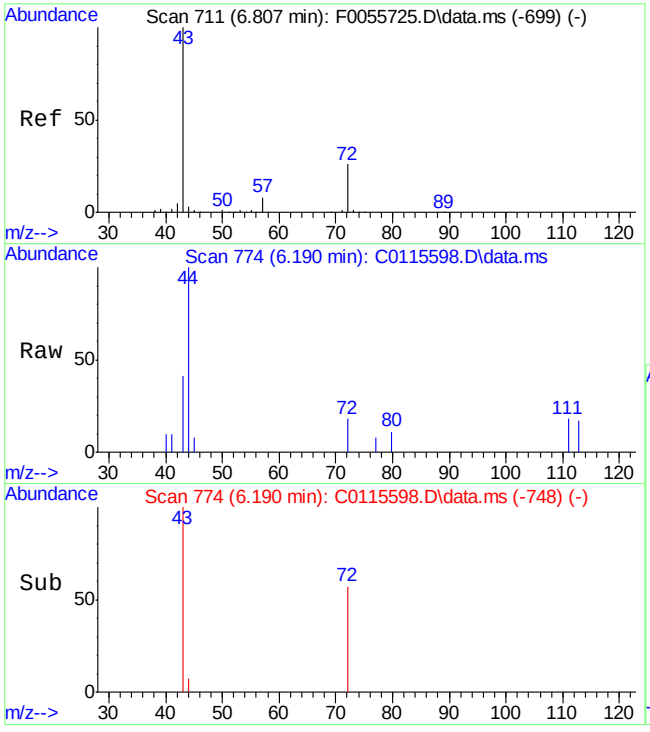
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115598.D
Acq On : 12 May 2016 8:07 pm
Operator : ericp
Sample : FA33878-4 MA,50x Inst : MSVOA5
Misc : ms33860,vc4595,5.53,,100,5,,
ALS Vial : 25 Sample Multiplier: 1

Quant Time: May 13 07:39:24 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

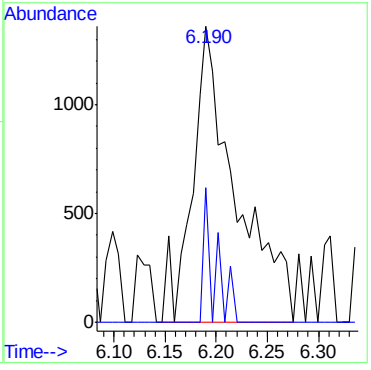


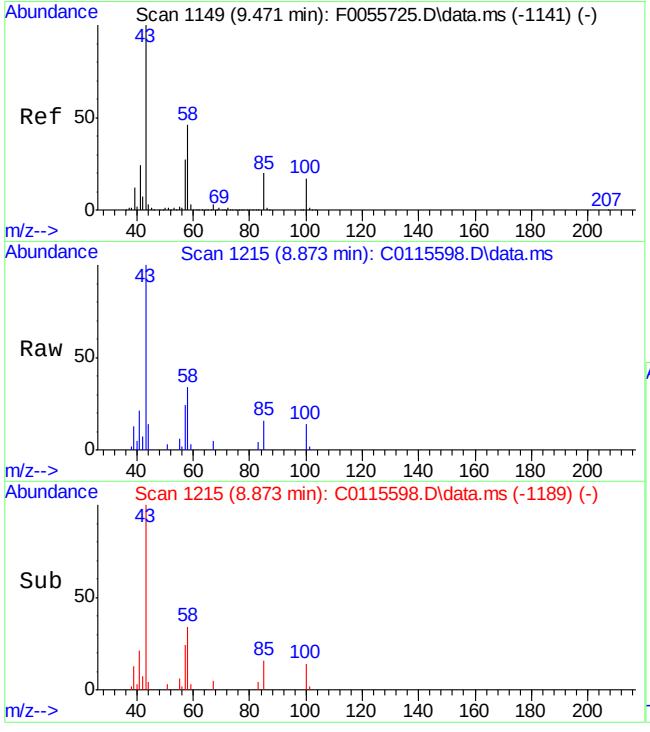



#38
2-Butanone
Concen: 1.67 ug/Kg
RT: 6.190 min Scan# 774
Delta R.T. 0.006 min
Lab File: C0115598.D
Acq: 12 May 2016 8:07 pm

Tgt Ion: 43 Resp: 4055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 45.5 | 0.0 | 55.9 |

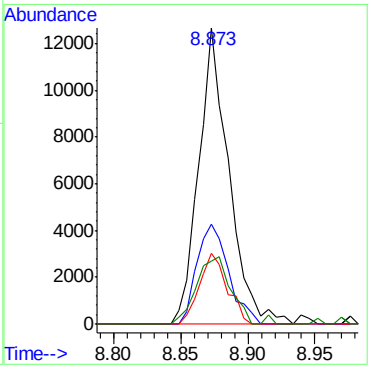


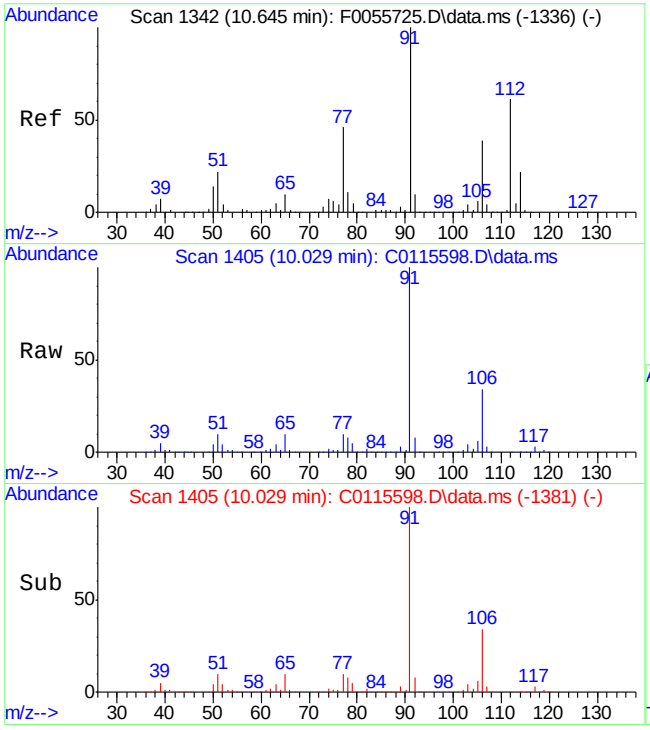




#58
4-Methyl-2-pentanone
Concen: 3.69 ug/Kg
RT: 8.873 min Scan# 1215
Delta R.T. 0.006 min
Lab File: C0115598.D
Acq: 12 May 2016 8:07 pm

Tgt Ion: 43 Resp: 19784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.7 | 13.7 | 73.7 |
| 57 | 24.0 | 2.9 | 62.9 |
| 41 | 21.2 | 1.4 | 61.4 |

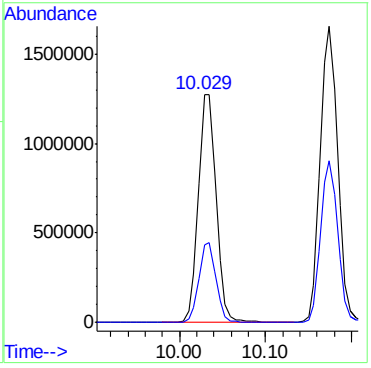


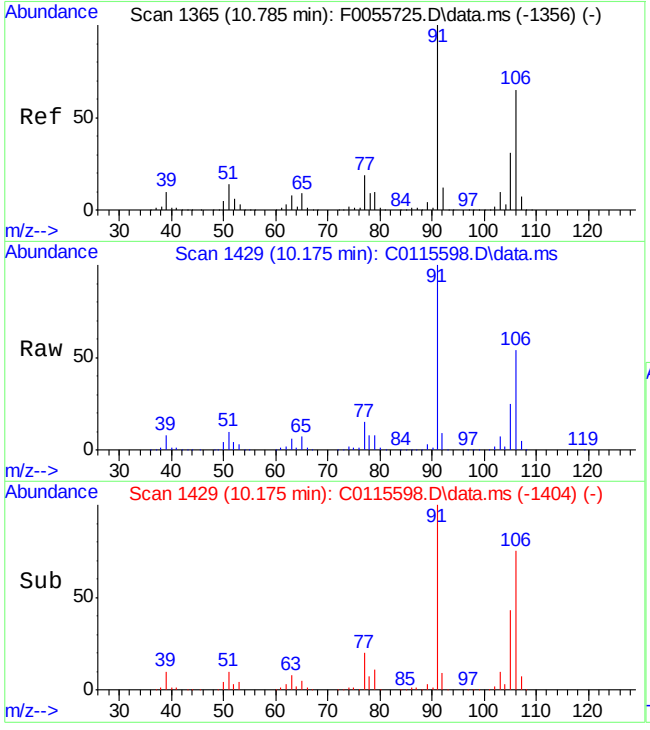



#68
Ethylbenzene
Concen: 56.13 ug/Kg
RT: 10.029 min Scan# 1405
Delta R.T. -0.006 min
Lab File: C0115598.D
Acq: 12 May 2016 8:07 pm

Tgt Ion: 91 Resp: 1843878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 34.2 | 1.3 | 61.3 |

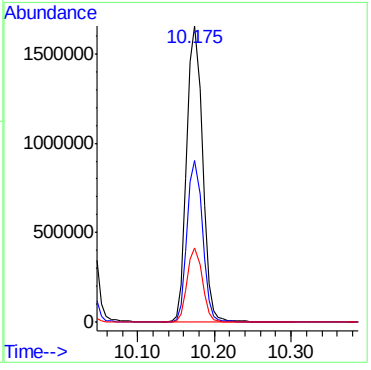



#71
m,p-Xylene
Concen: 98.67 ug/Kg
RT: 10.175 min Scan# 1429
Delta R.T. -0.000 min
Lab File: C0115598.D
Acq: 12 May 2016 8:07 pm

Tgt Ion: 91 Resp: 2363734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 54.5 | 19.3 | 79.3 |
| 105 | 25.0 | 0.0 | 52.4 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976460.D
Acq On : 12 May 2016 3:41 pm
Operator : darshnap
Sample : fa33878-5 ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 08:08:45 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 7.762 | 96 | 1245801 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.852 | 117 | 1019203 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.201 | 152 | 591579 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.292 | 65 | 73891 | 250.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 36) Dibromofluoromethane | 6.928 | 113 | 325374 | 52.13 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 104.26% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.482 | 65 | 375248 | 51.42 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 102.84% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1275266 | 48.58 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 97.16% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 587131 | 54.43 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 108.86% | | | |
| Target Compounds | | | | | | Qvalue |
| 21) Methyl Tert Butyl Ether | 5.347 | 73 | 4535 | 0.25 | ug/L | 67 |
| 23) Di-isopropyl ether | 5.718 | 45 | 32762 | 1.62 | ug/L | 89 |
| 44) Benzene | 7.366 | 78 | 8517 | 0.30 | ug/L | 73 |
| 58) Toluene | 9.356 | 91 | 150251 | 4.77 | ug/L | 100 |
| 70) Ethylbenzene | 10.877 | 91 | 12946750 | Below Cal | # | 13 |
| 73) m,p-Xylene | 11.035 | 91 | 17219208m | Below Cal | | |
| 74) o-Xylene | 11.442 | 91 | 7211644 | 263.61 | ug/L # | 45 |
| 77) Isopropylbenzene | 11.741 | 105 | 729083 | 21.50 | ug/L | 97 |
| 81) n-Propylbenzene | 12.166 | 91 | 127025 | 2.78 | ug/L | 92 |
| 109) Tert Butyl Alcohol | 5.371 | 59 | 3208 | 8.35 | ug/L # | 57 |
| 110) tert Amyl alcohol | 7.573 | 59 | 1614 | 5.25 | ug/L # | 47 |
| 112) 1,4-Dioxane | 8.681 | 88 | 2741 | 63.63 | ug/L | 71 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

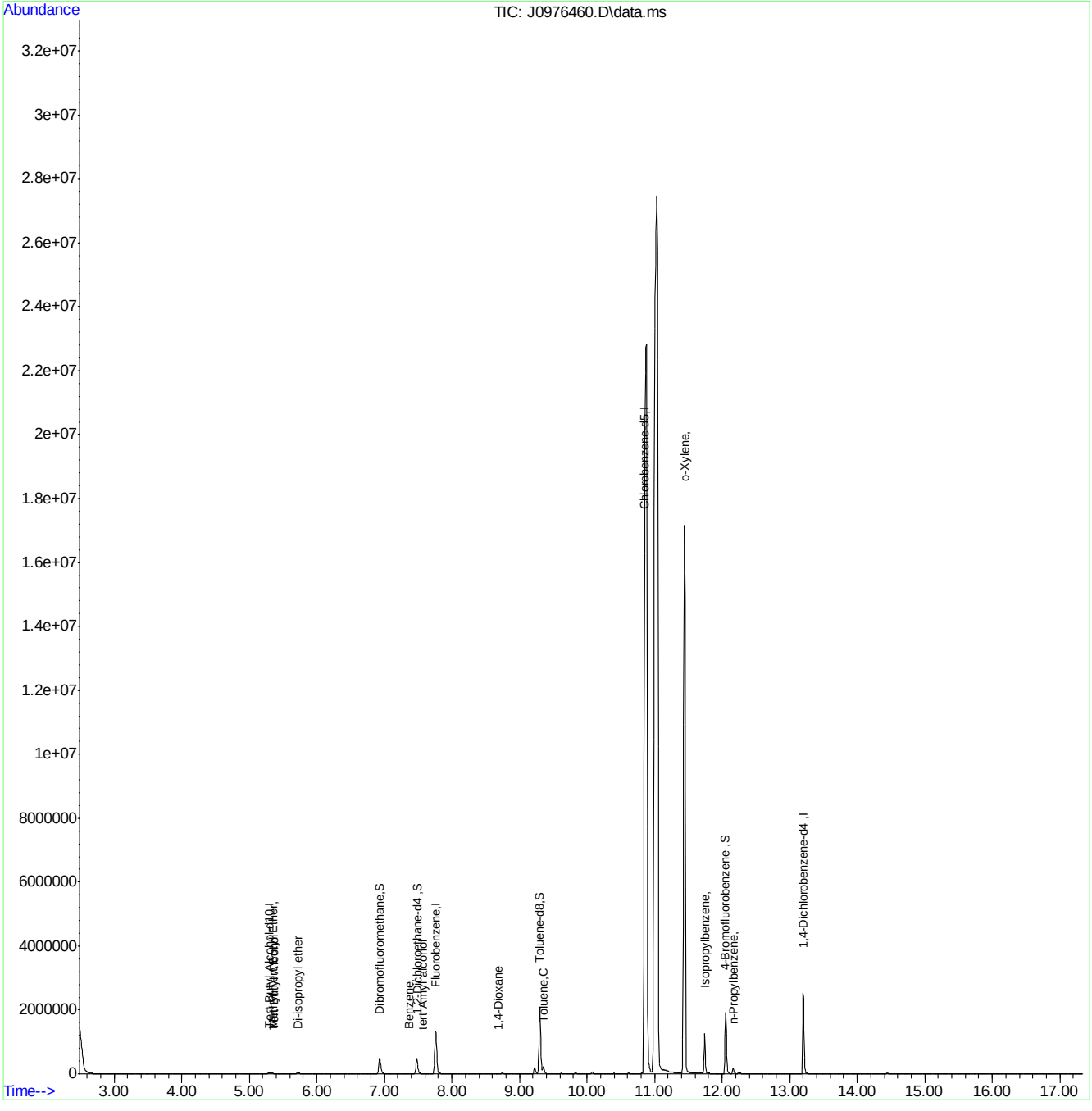


SGS ACCUTEST FA33878

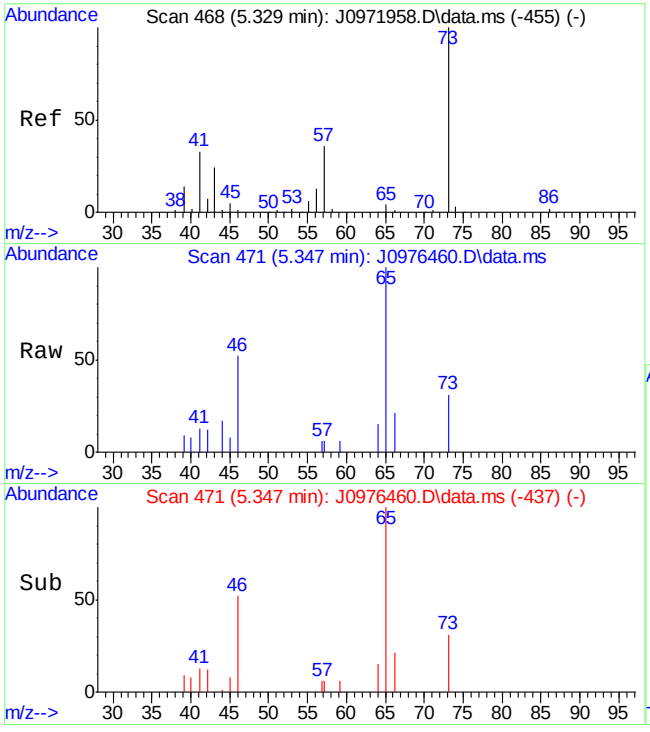
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976460.D
Acq On : 12 May 2016 3:41 pm
Operator : darshnap
Sample : fa33878-5 ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 08:08:45 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration



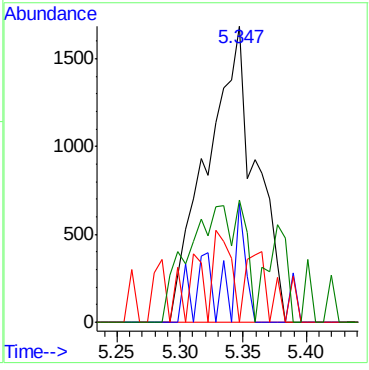

MSJ051216a.M Fri May 13 09:30:31 2016 Page: 2

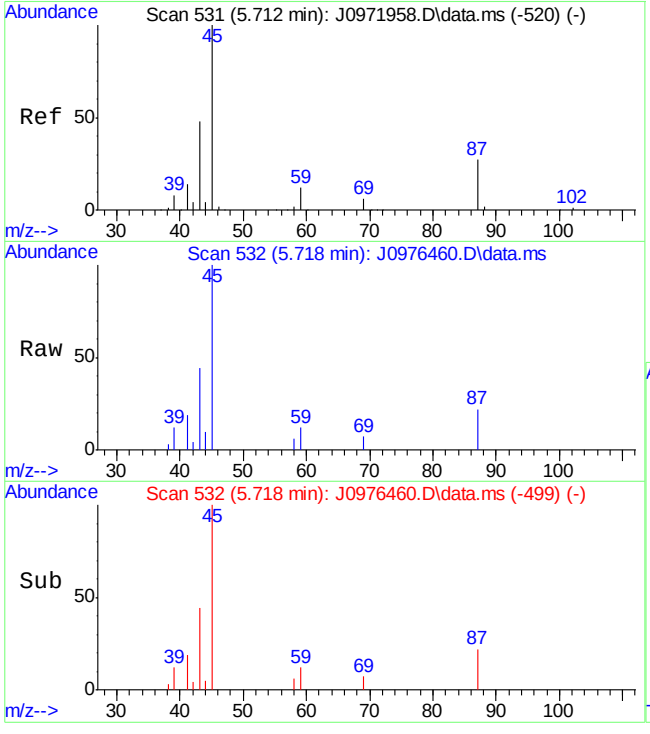



#21
Methyl Tert Butyl Ether
Concen: 0.25 ug/L
RT: 5.347 min Scan# 471
Delta R.T. 0.007 min
Lab File: J0976460.D
Acq: 12 May 2016 3:41 pm

Tgt Ion: 73 Resp: 4535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 40.1 | 0.0 | 58.6 |
| 43 | 0.0 | 0.0 | 53.2 |
| 41 | 41.3 | 0.0 | 55.5 |

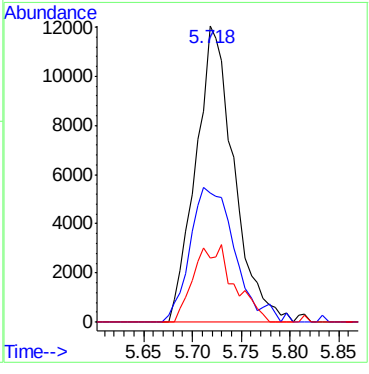



#23
Di-isopropyl ether
Concen: 1.62 ug/L
RT: 5.718 min Scan# 532
Delta R.T. -0.000 min
Lab File: J0976460.D
Acq: 12 May 2016 3:41 pm

Tgt Ion: 45 Resp: 32762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 43.7 | 19.7 | 79.7 |
| 87 | 21.6 | 0.0 | 59.7 |

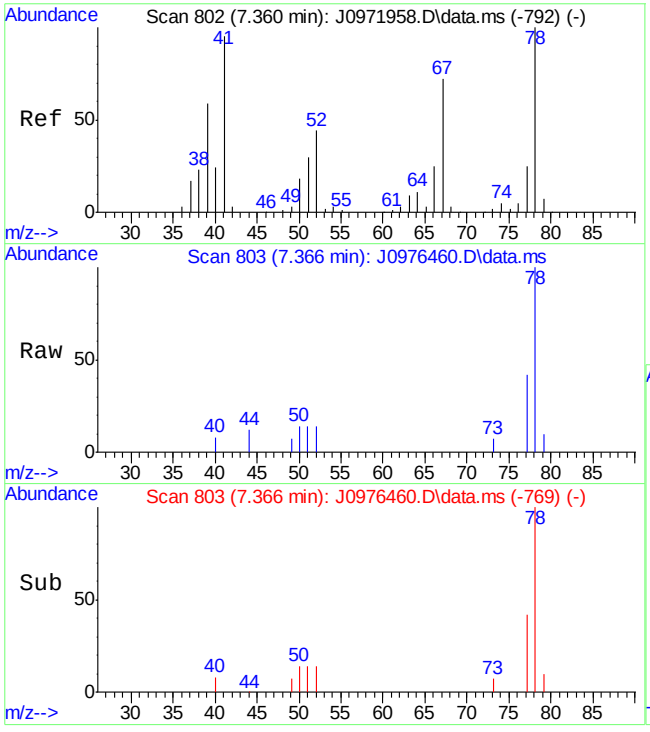








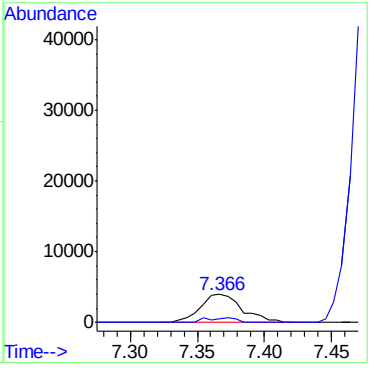

SGS ACCUTEST FA33878

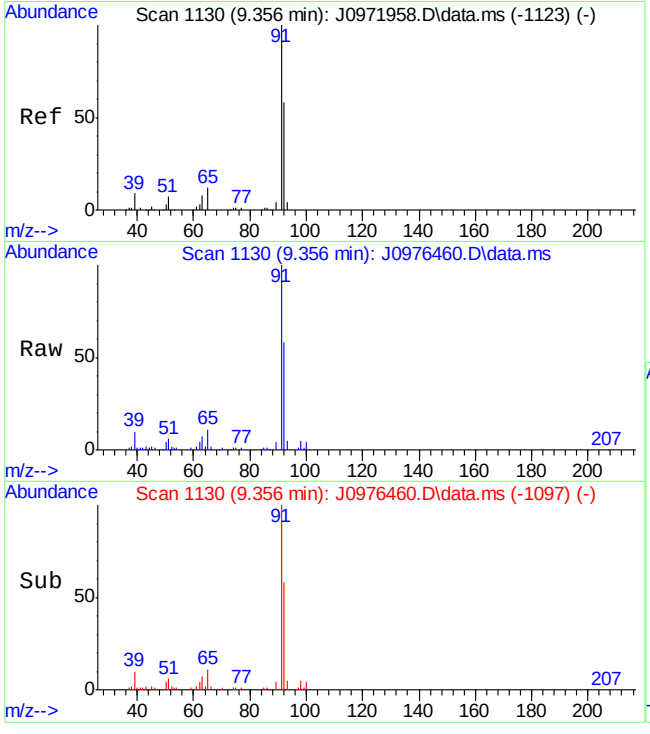



#44
Benzene
Concen: 0.30 ug/L
RT: 7.366 min Scan# 803
Delta R.T. 0.006 min
Lab File: J0976460.D
Acq: 12 May 2016 3:41 pm

Tgt Ion: 78 Resp: 8517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 51 | 13.7 | 0.0 | 57.5 |

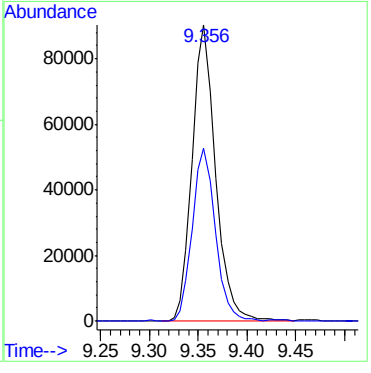


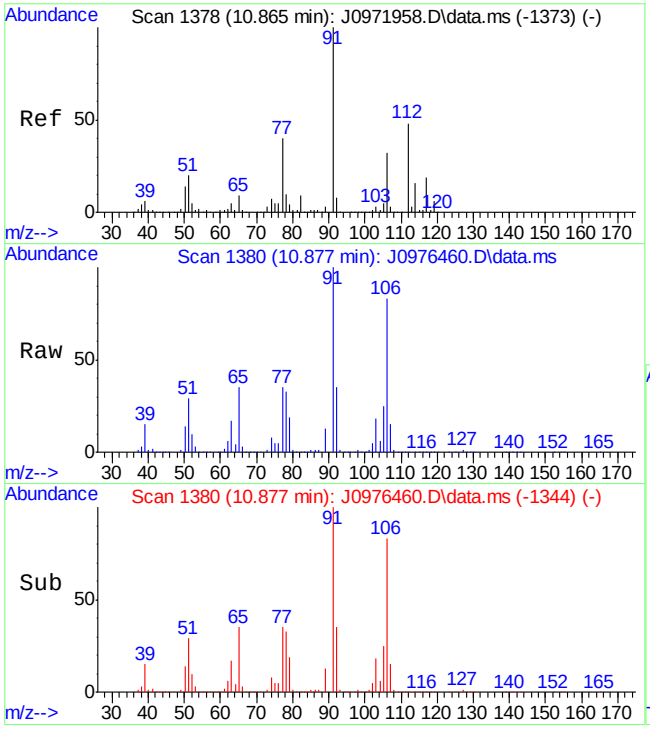




#58
Toluene
Concen: 4.77 ug/L
RT: 9.356 min Scan# 1130
Delta R.T. -0.000 min
Lab File: J0976460.D
Acq: 12 May 2016 3:41 pm

Tgt Ion: 91 Resp: 150251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 58.5 | 28.5 | 88.5 |

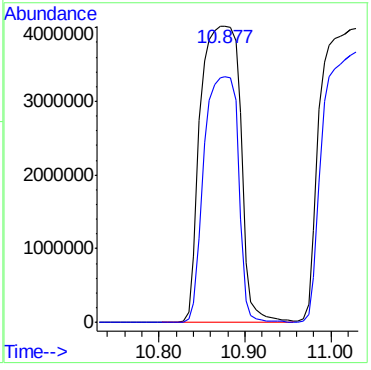


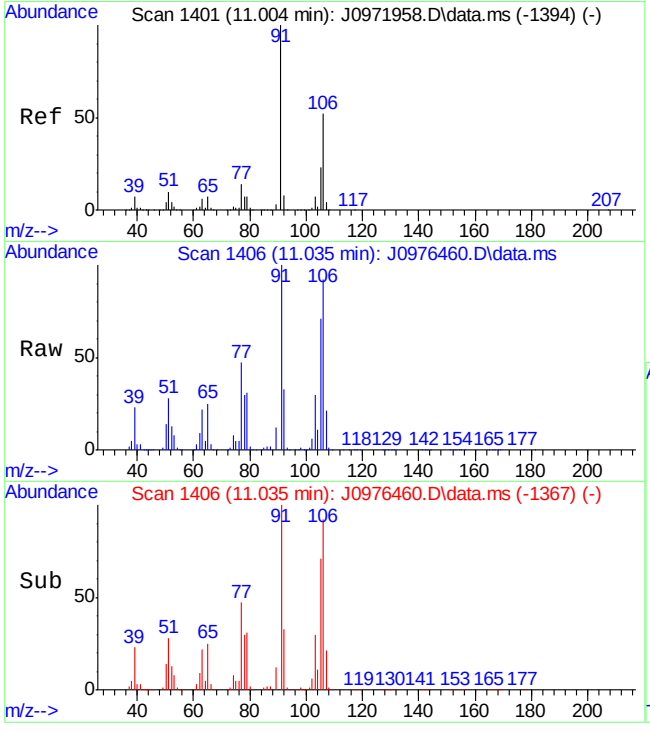



#70
Ethylbenzene
Concen: Below Cal
RT: 10.877 min Scan# 1380
Delta R.T. 0.019 min
Lab File: J0976460.D
Acq: 12 May 2016 3:41 pm

Tgt Ion: 91 Resp:12946750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 83.1 | 3.4 | 63.4# |

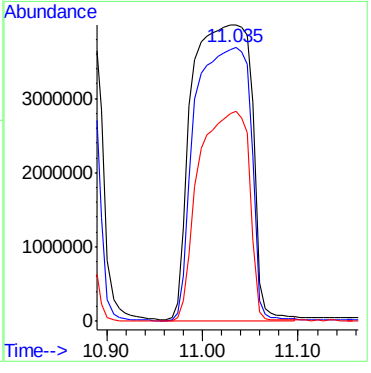


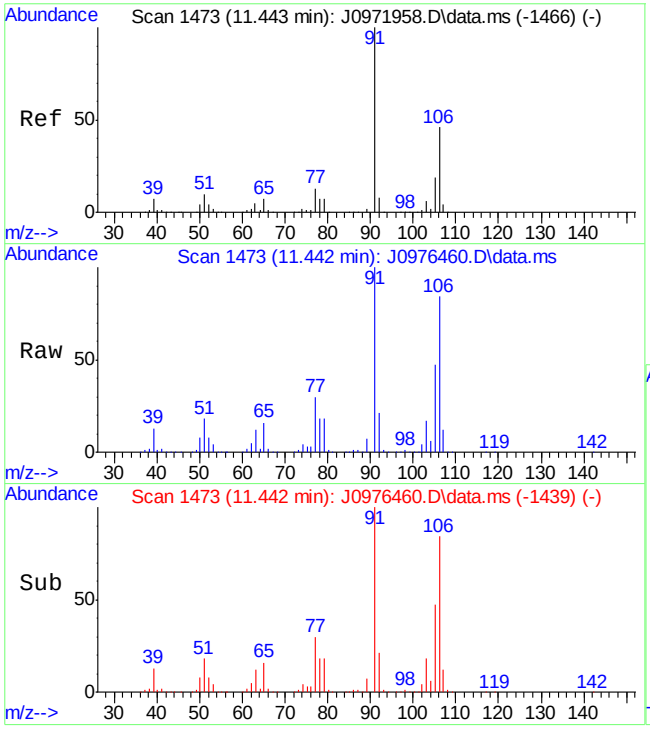




#73
m,p-Xylene
Concen: Below Cal m
RT: 11.035 min Scan# 1406
Delta R.T. 0.037 min
Lab File: J0976460.D
Acq: 12 May 2016 3:41 pm

Tgt Ion: 91 Resp:17219208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 92.3 | 24.4 | 84.4# |
| 105 | 70.9 | 0.0 | 55.0# |

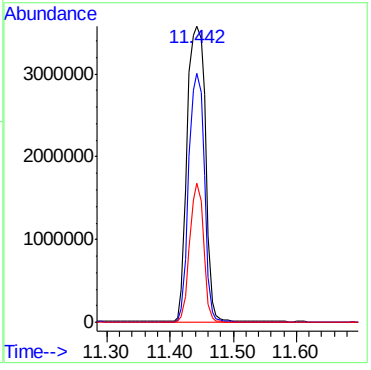


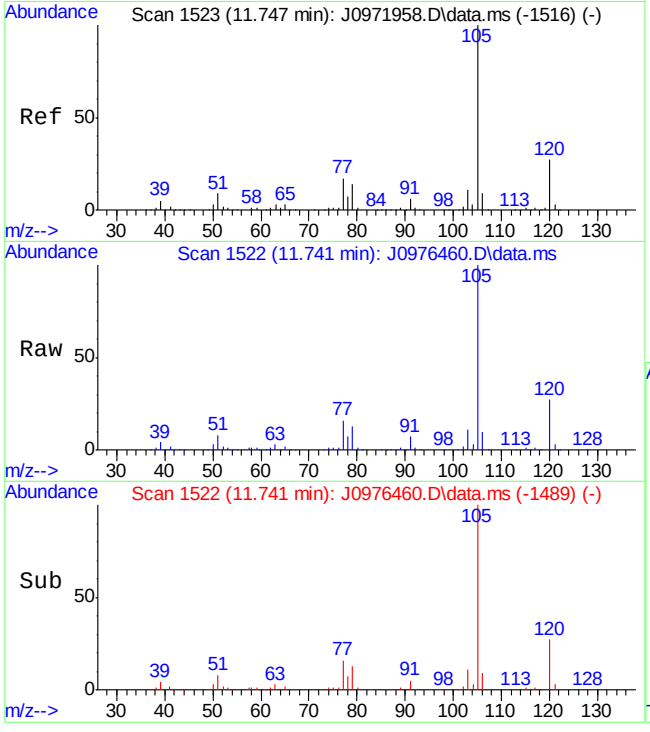



#74
o-Xylene
Concen: 263.61 ug/L
RT: 11.442 min Scan# 1473
Delta R.T. 0.006 min
Lab File: J0976460.D
Acq: 12 May 2016 3:41 pm

Tgt Ion: 91 Resp: 7211644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 84.2 | 18.0 | 78.0# |
| 105 | 47.1 | 0.0 | 49.8 |

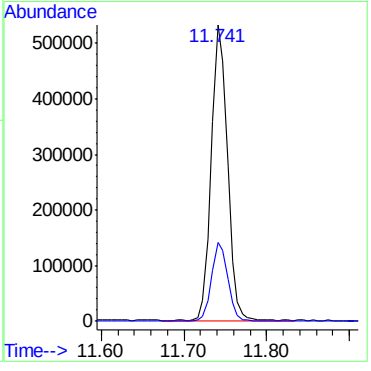


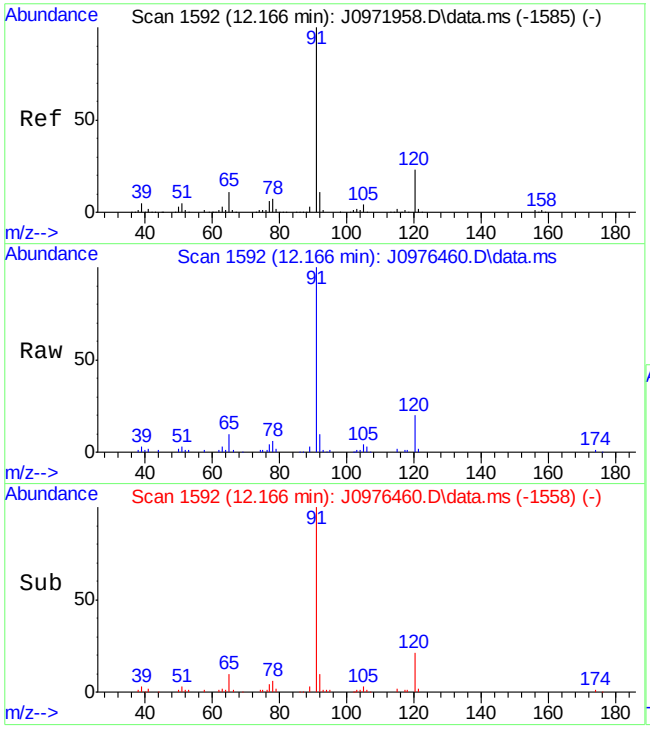




#77
Isopropylbenzene
Concen: 21.50 ug/L
RT: 11.741 min Scan# 1522
Delta R.T. 0.001 min
Lab File: J0976460.D
Acq: 12 May 2016 3:41 pm

Tgt Ion:105 Resp: 729083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.7 | 0.0 | 58.1 |

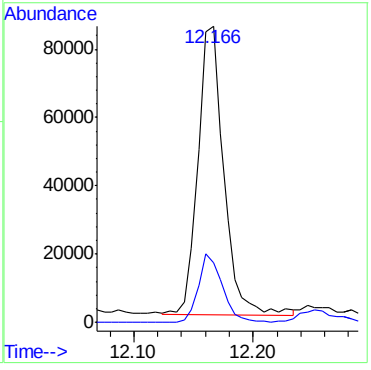


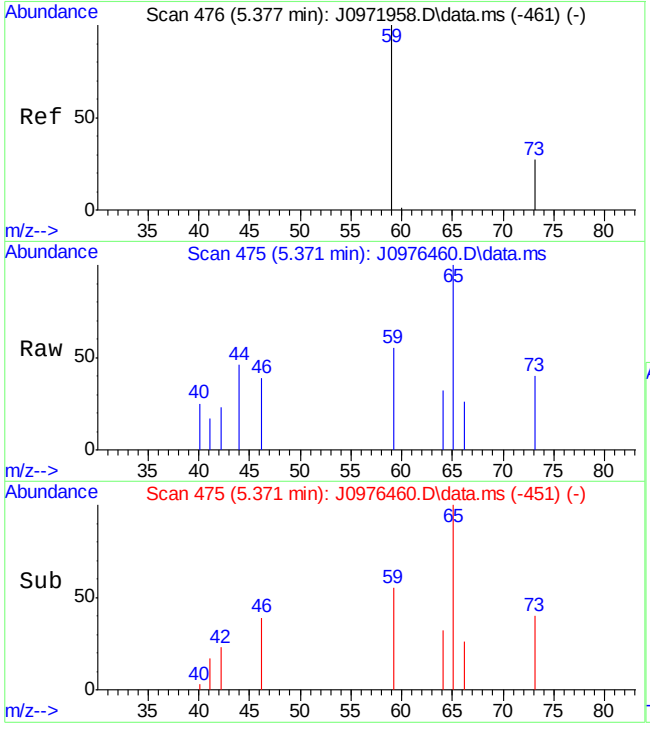



#81
n-Propylbenzene
Concen: 2.78 ug/L
RT: 12.166 min Scan# 1592
Delta R.T. 0.006 min
Lab File: J0976460.D
Acq: 12 May 2016 3:41 pm

Tgt Ion: 91 Resp: 127025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 20.8 | 0.0 | 54.6 |

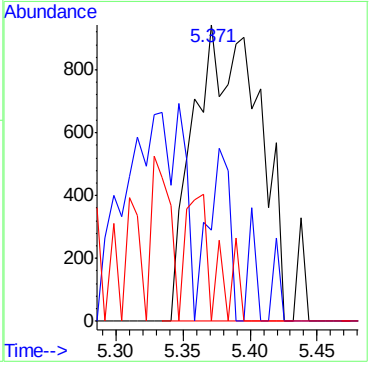


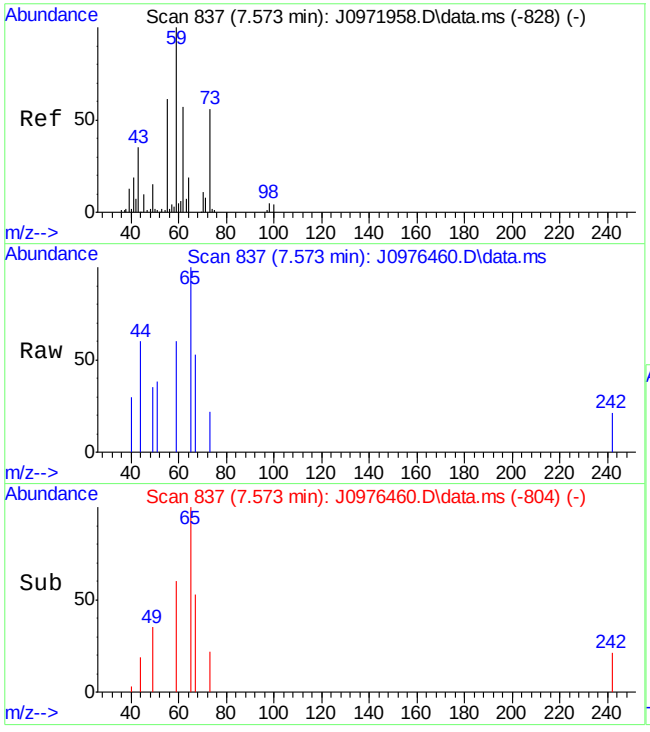




#109
Tert Butyl Alcohol
Concen: 8.35 ug/L
RT: 5.371 min Scan# 475
Delta R.T. -0.006 min
Lab File: J0976460.D
Acq: 12 May 2016 3:41 pm

Tgt Ion: 59 Resp: 3208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 41 | 30.8 | 28.8 | 68.8 |
| 43 | 0.0 | 19.1 | 59.1# |

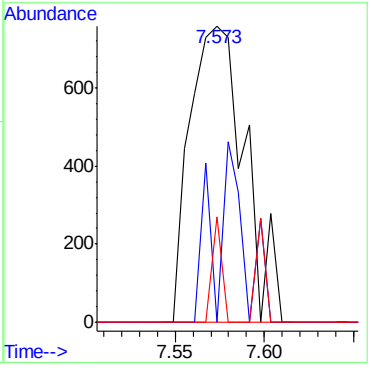


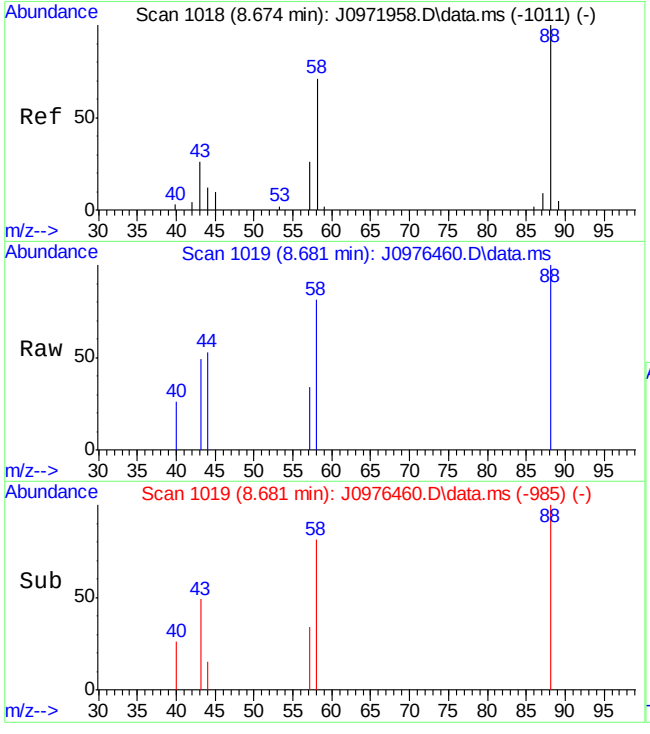



#110
tert Amyl alcohol
Concen: 5.25 ug/L
RT: 7.573 min Scan# 837
Delta R.T. 0.000 min
Lab File: J0976460.D
Acq: 12 May 2016 3:41 pm

Tgt Ion: 59 Resp: 1614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 55 | 0.0 | 33.2 | 73.2# |
| 73 | 35.6 | 43.0 | 83.0# |

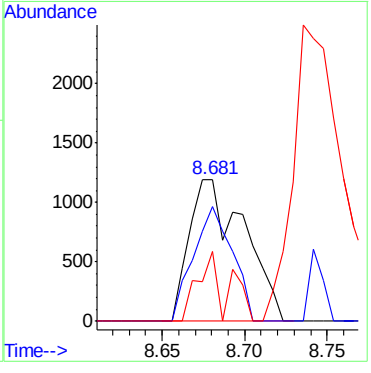



#112
1,4-Dioxane
Concen: 63.63 ug/L
RT: 8.681 min Scan# 1019
Delta R.T. 0.007 min
Lab File: J0976460.D
Acq: 12 May 2016 3:41 pm

Tgt Ion: 88 Resp: 2741

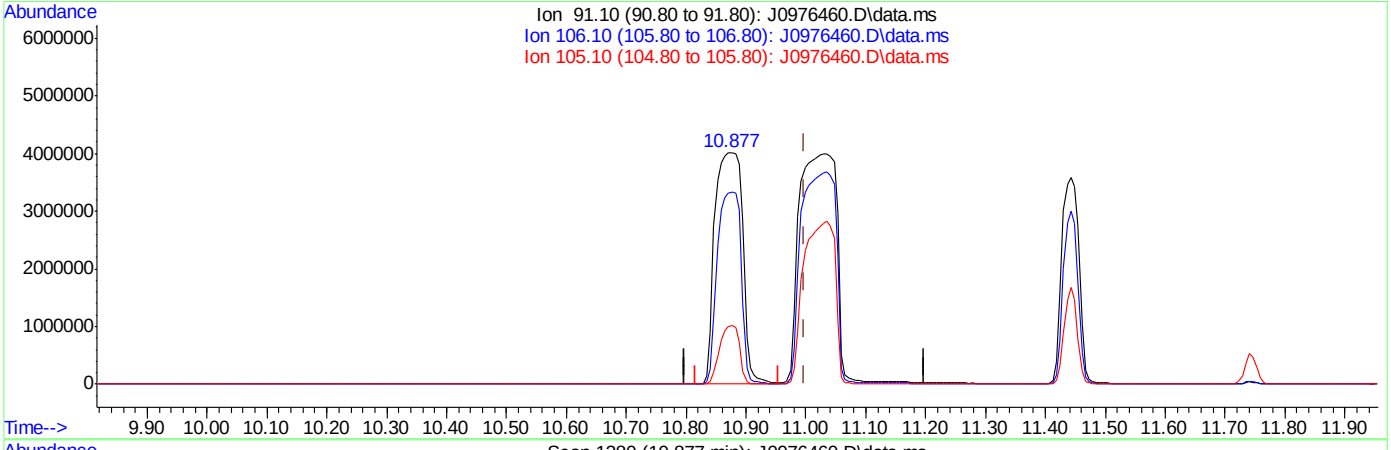
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 80.6 | 34.8 | 94.8 |
| 43 | 48.7 | 0.0 | 53.3 |

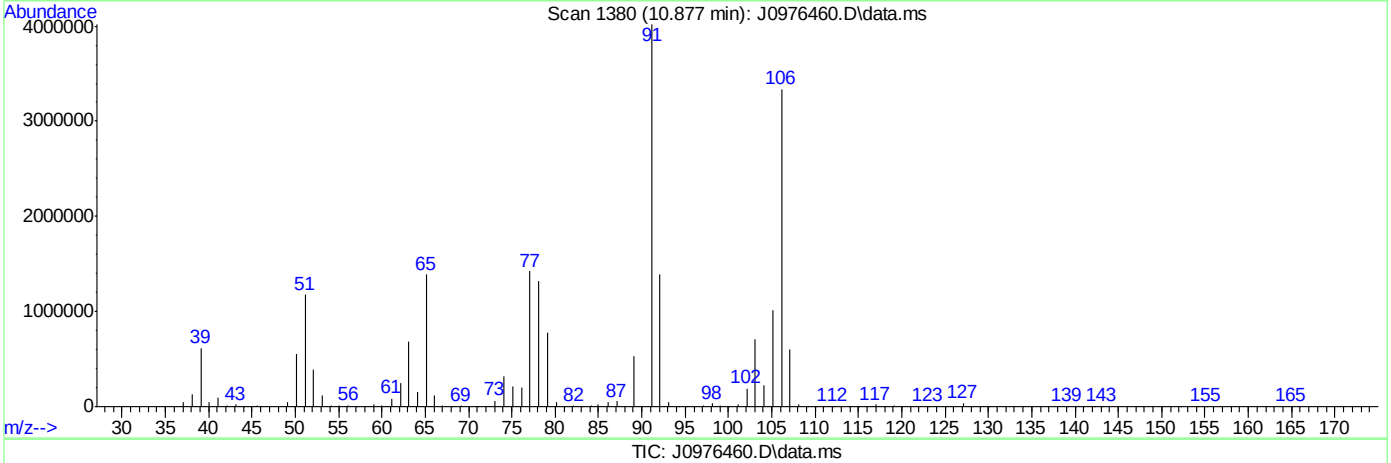


Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976460.D
Acq On : 12 May 2016 3:41 pm
Operator : darshnap
Sample : fa33878-5 ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 08:01:33 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976460.D\data.ms

(73) m,p-Xylene ( )

10.877min (-0.121) -50.00ug/L

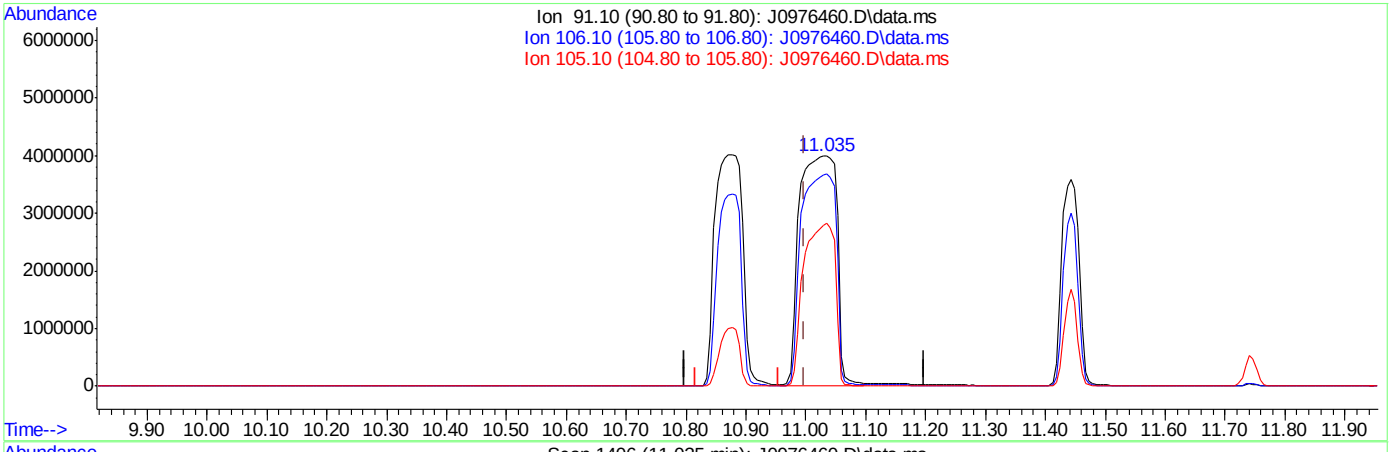
response 12944332

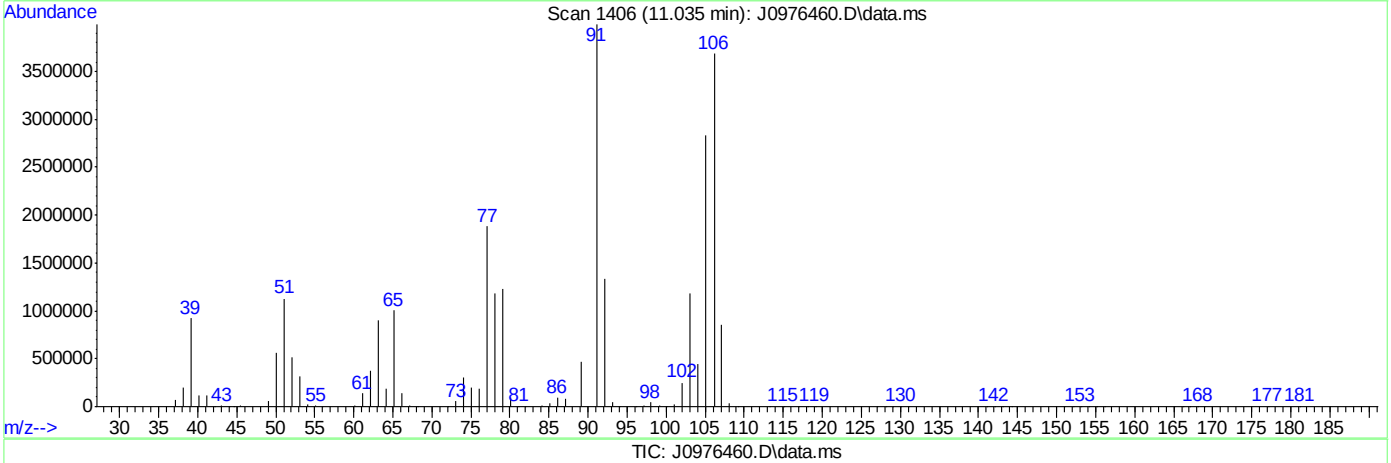
| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 54.40 | 83.11 |
| 105.10 | 25.00 | 25.33 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976460.D
Acq On : 12 May 2016 3:41 pm
Operator : darshnap
Sample : fa33878-5 ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 08:01:33 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976460.D\data.ms

(73) m,p-Xylene ( )

11.035min (+0.037) -50.00ug/L m

response 17219208

| Ion | Exp% | Act% |
|---|---|---|
| 91.10 | 100 | 100 |
| 106.10 | 54.40 | 92.34# |
| 105.10 | 25.00 | 70.94# |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976474.D
Acq On : 13 May 2016 11:48 am
Operator : darshnap
Sample : fa33878-5,100x ma Inst : MSVOA6
Misc : MS33859,VJ5296,,,,,100
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 16 13:29:42 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1152398 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 887408 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.207 | 152 | 479629 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.298 | 65 | 70146 | 250.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 36) Dibromofluoromethane | 6.922 | 113 | 293055 | 50.75 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 101.50% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 352825 | 52.26 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 104.52% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1154788 | 50.53 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 101.06% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 452020 | 51.69 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 103.38% | | | |
| Target Compounds | | | | | | Qvalue |
| 3) Chloromethane | 2.858 | 50 | 2187 | 0.39 | ug/L | 94 |
| 13) Carbon Disulfide | 4.465 | 76 | 6074 | 0.33 | ug/L | 74 |
| 14) Iodomethane | 4.580 | 142 | 2608 | 0.28 | ug/L | 88 |
| 19) trans-1,2-Dichloroethene | 5.243 | 61 | 2125 | 0.27 | ug/L # | 64 |
| 29) cis-1,2-Dichloroethene | 6.472 | 96 | 1554 | 0.23 | ug/L # | 66 |
| 33) Chloroform | 6.734 | 83 | 2769 | 0.24 | ug/L | 64 |
| 44) Benzene | 7.360 | 78 | 6755 | 0.25 | ug/L | 71 |
| 48) Trichloroethene | 7.944 | 95 | 1880 | 0.29 | ug/L | 89 |
| 58) Toluene | 9.356 | 91 | 10426 | 0.38 | ug/L | 80 |
| 70) Ethylbenzene | 10.858 | 91 | 537279 | 16.69 | ug/L | 96 |
| 73) m,p-Xylene | 10.998 | 91 | 1297697 | 54.36 | ug/L | 95 |
| 74) o-Xylene | 11.442 | 91 | 93990 | 3.95 | ug/L | 99 |
| 77) Isopropylbenzene | 11.747 | 105 | 9050 | 0.30 | ug/L | 95 |
| 81) n-Propylbenzene | 12.166 | 91 | 9119 | 0.25 | ug/L | 84 |
| 85) 2-Chlorotoluene | 12.355 | 91 | 5719 | 0.22 | ug/L | 86 |
| 102) Hexachlorobutadiene | 14.928 | 225 | 1532 | 0.28 | ug/L | 94 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

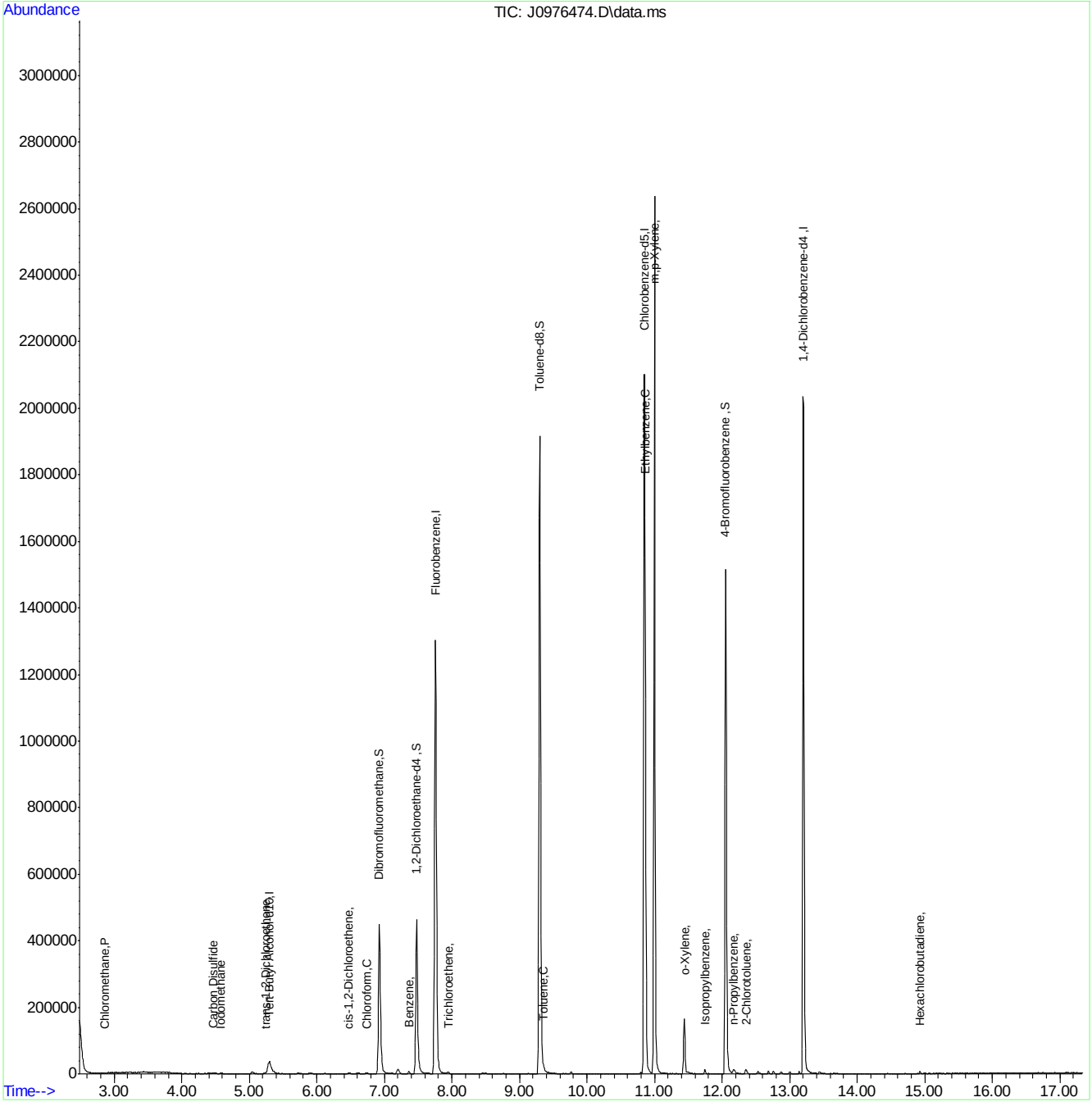


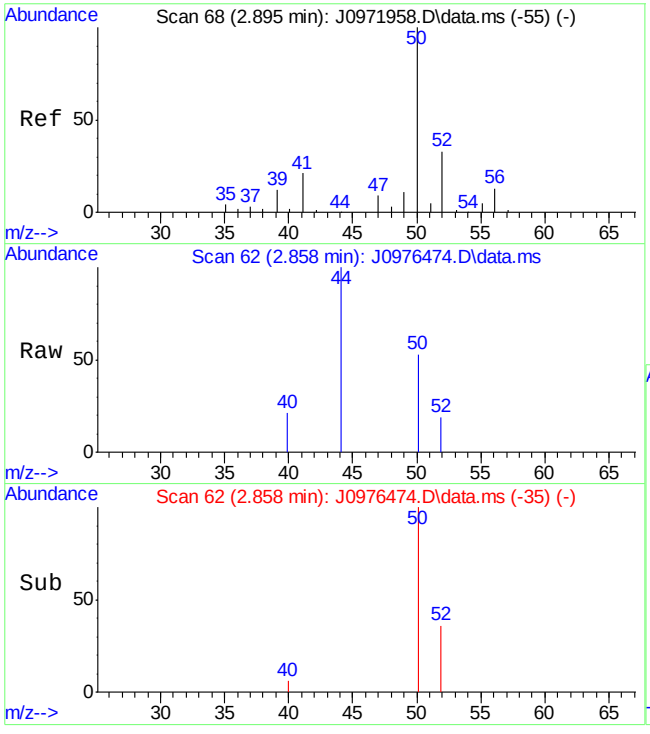
SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976474.D
Acq On : 13 May 2016 11:48 am
Operator : darshnap
Sample : fa33878-5,100x ma Inst : MSVOA6
Misc : MS33859,VJ5296,,,,,100
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 16 13:29:42 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

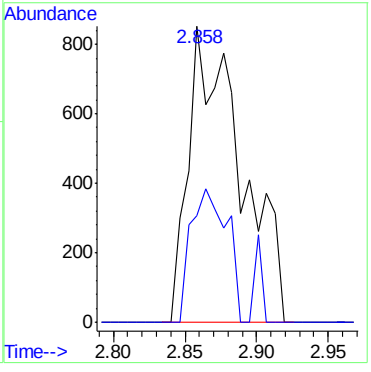


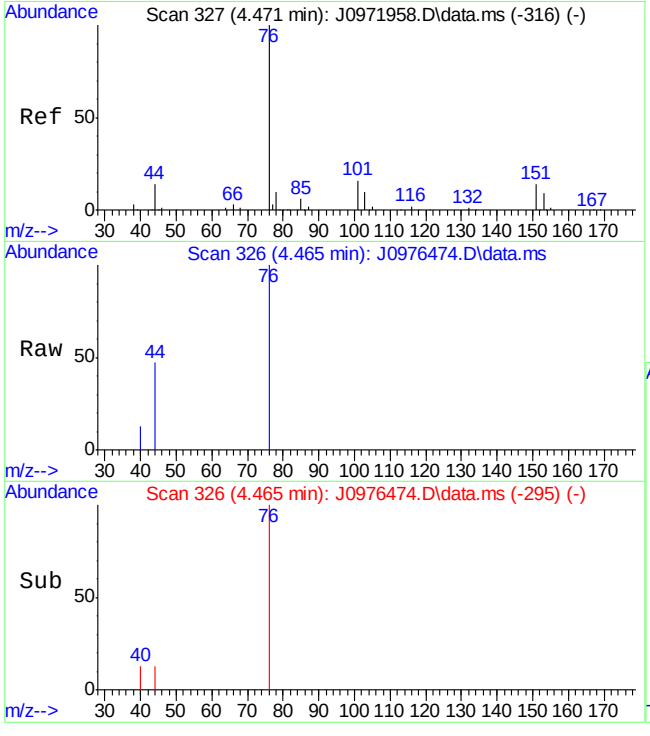



#3
Chloromethane
Concen: 0.39 ug/L
RT: 2.858 min Scan# 62
Delta R.T. -0.037 min
Lab File: J0976474.D
Acq: 13 May 2016 11:48 am

Tgt Ion: 50 Resp: 2187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 36.2 | 2.8 | 62.8 |

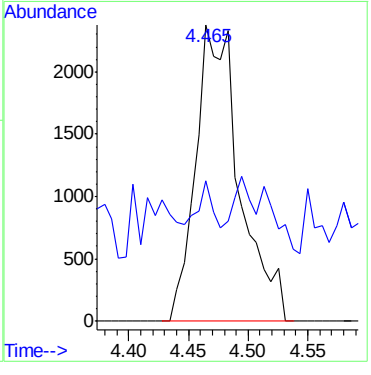



#13
Carbon Disulfide
Concen: 0.33 ug/L
RT: 4.465 min Scan# 326
Delta R.T. -0.012 min
Lab File: J0976474.D
Acq: 13 May 2016 11:48 am

Tgt Ion: 76 Resp: 6074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 44 | 23.1 | 0.0 | 42.8 |

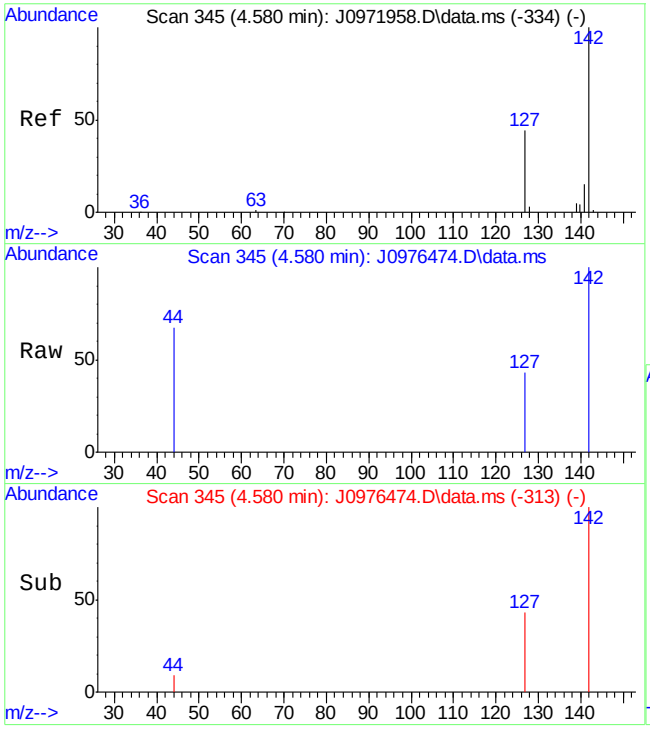








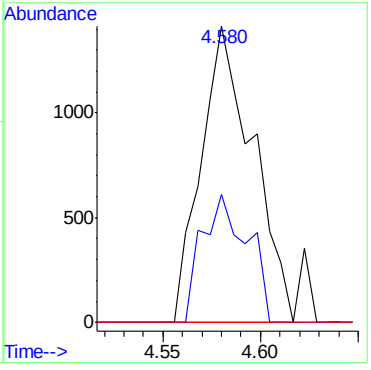

SGS ACCUTEST FA33878

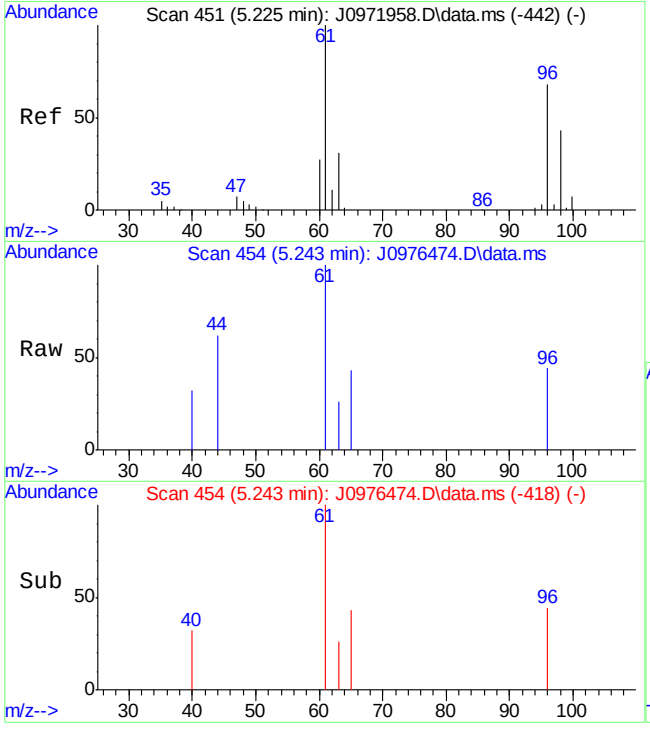



#14
Iodomethane
Concen: 0.28 ug/L
RT: 4.580 min Scan# 345
Delta R.T. -0.006 min
Lab File: J0976474.D
Acq: 13 May 2016 11:48 am

Tgt Ion:142 Resp: 2608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.4 | 25.9 | 65.9 |
| 141 | 0.0 | 0.0 | 34.8 |

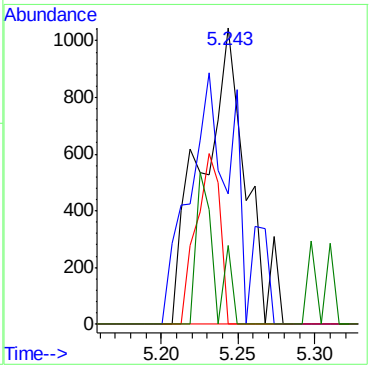


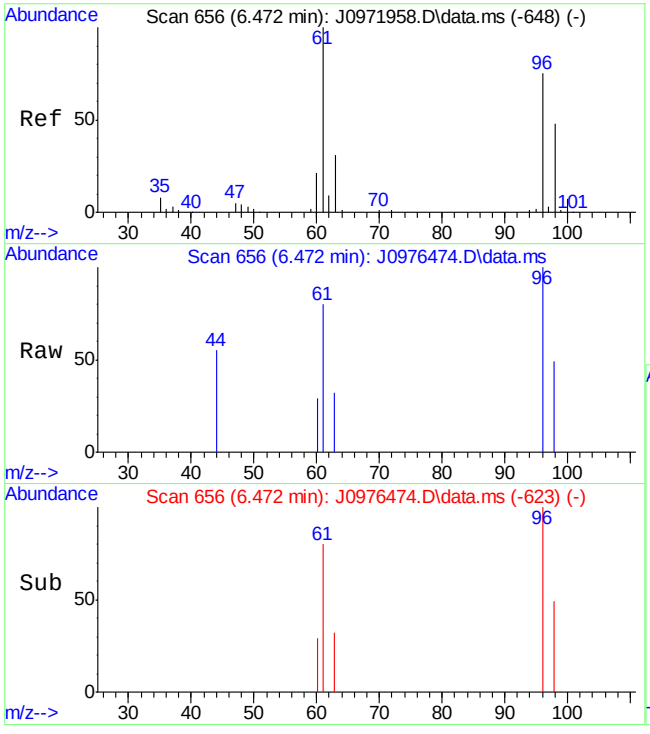




#19
trans-1,2-Dichloroethene
Concen: 0.27 ug/L
RT: 5.243 min Scan# 454
Delta R.T. 0.018 min
Lab File: J0976474.D
Acq: 13 May 2016 11:48 am

Tgt Ion: 61 Resp: 2125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 61 | 100 | | |
| 96 | 43.8 | 37.1 | 97.1 |
| 98 | 0.0 | 11.5 | 71.5# |
| 63 | 26.4 | 2.8 | 62.8 |

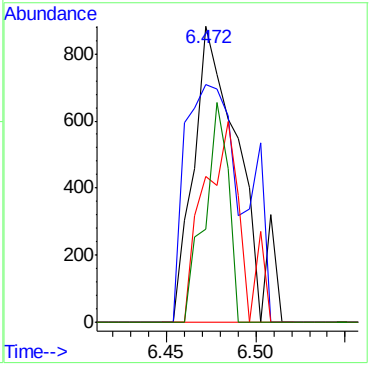


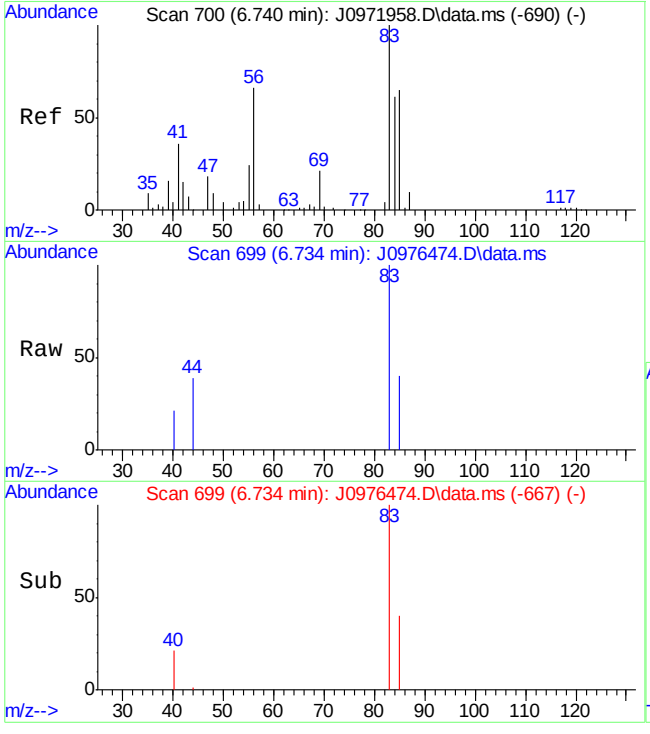



#29
cis-1,2-Dichloroethene
Concen: 0.23 ug/L
RT: 6.472 min Scan# 656
Delta R.T. 0.000 min
Lab File: J0976474.D
Acq: 13 May 2016 11:48 am

Tgt Ion: 96 Resp: 1554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 80.5 | 103.9 | 163.9# |
| 98 | 49.4 | 36.1 | 96.1 |
| 63 | 31.6 | 13.6 | 73.6 |

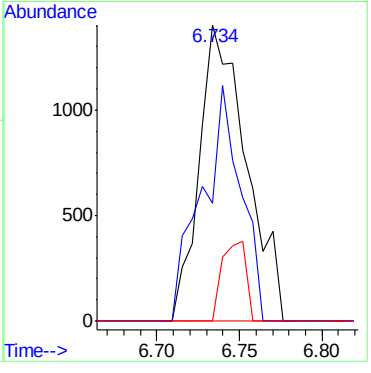


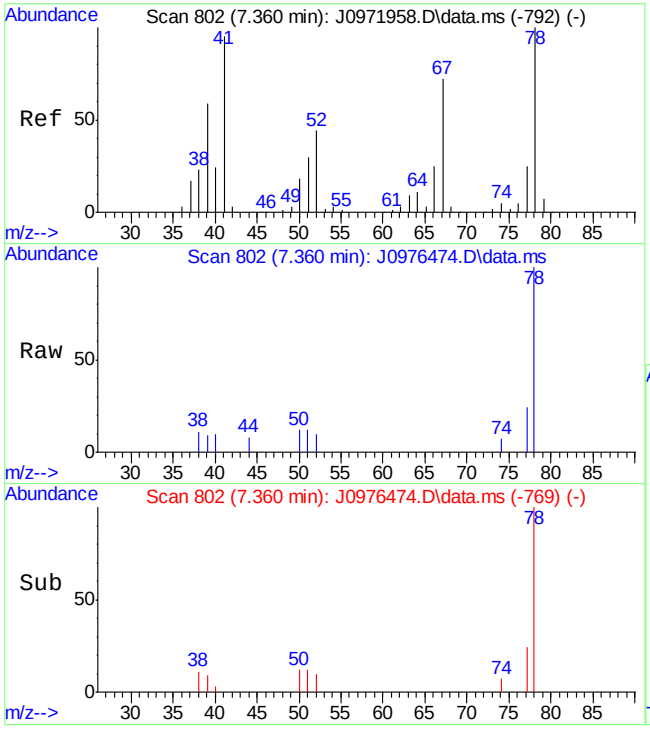




#33
Chloroform
Concen: 0.24 ug/L
RT: 6.734 min Scan# 699
Delta R.T. -0.006 min
Lab File: J0976474.D
Acq: 13 May 2016 11:48 am

Tgt Ion: 83 Resp: 2769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 40.0 | 37.2 | 97.2 |
| 47 | 0.0 | 0.0 | 50.8 |

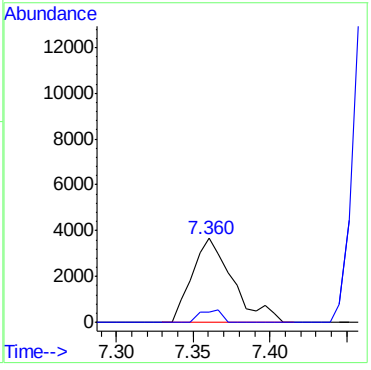


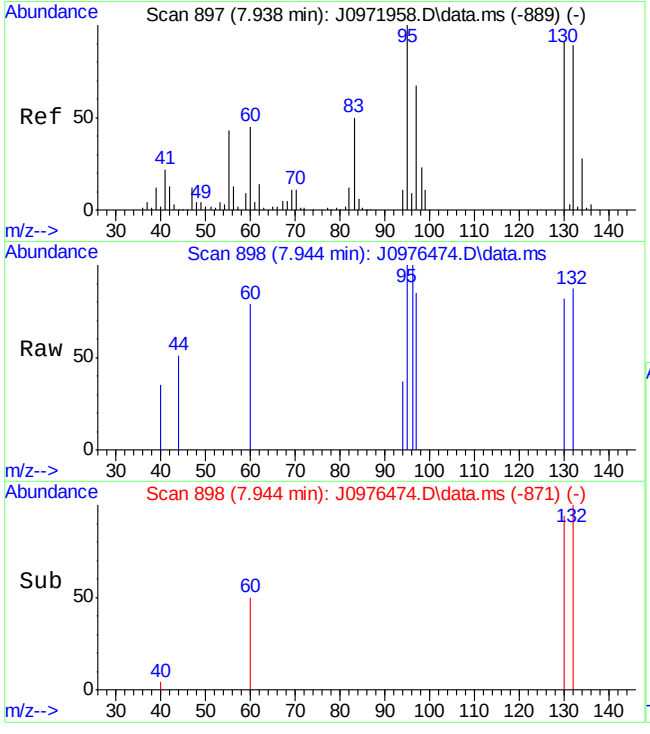



#44
Benzene
Concen: 0.25 ug/L
RT: 7.360 min Scan# 802
Delta R.T. 0.000 min
Lab File: J0976474.D
Acq: 13 May 2016 11:48 am

Tgt Ion: 78 Resp: 6755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 51 | 12.2 | 0.0 | 57.5 |

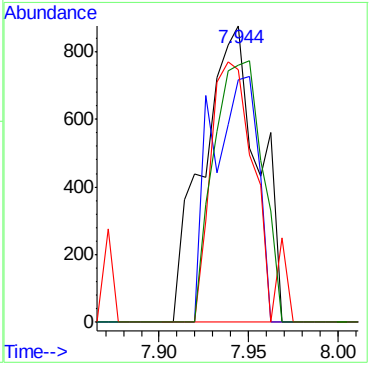


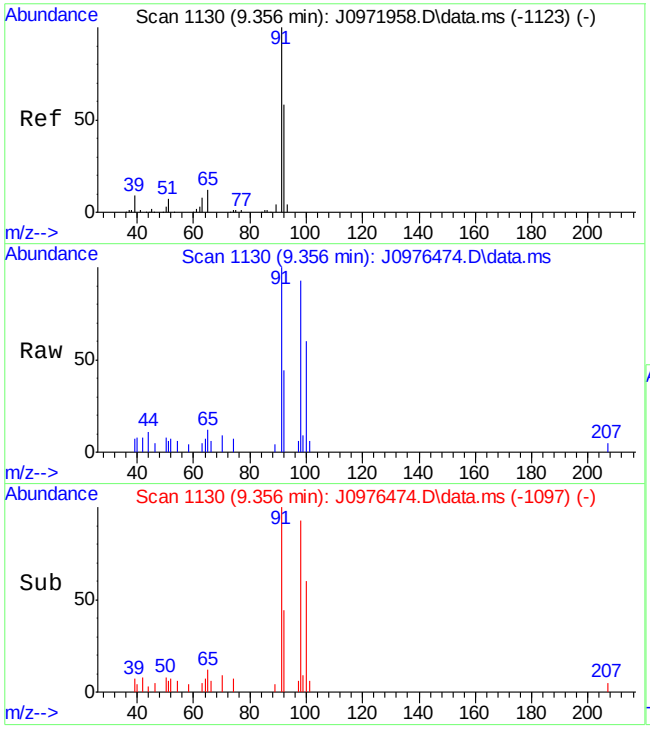




#48
Trichloroethene
Concen: 0.29 ug/L
RT: 7.944 min Scan# 898
Delta R.T. 0.012 min
Lab File: J0976474.D
Acq: 13 May 2016 11:48 am

Tgt Ion: 95 Resp: 1880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 130 | 81.8 | 62.2 | 122.2 |
| 97 | 85.2 | 33.7 | 93.7 |
| 132 | 86.8 | 56.9 | 116.9 |

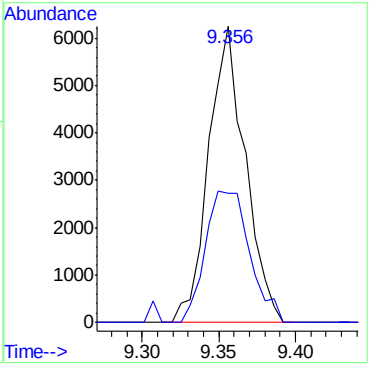


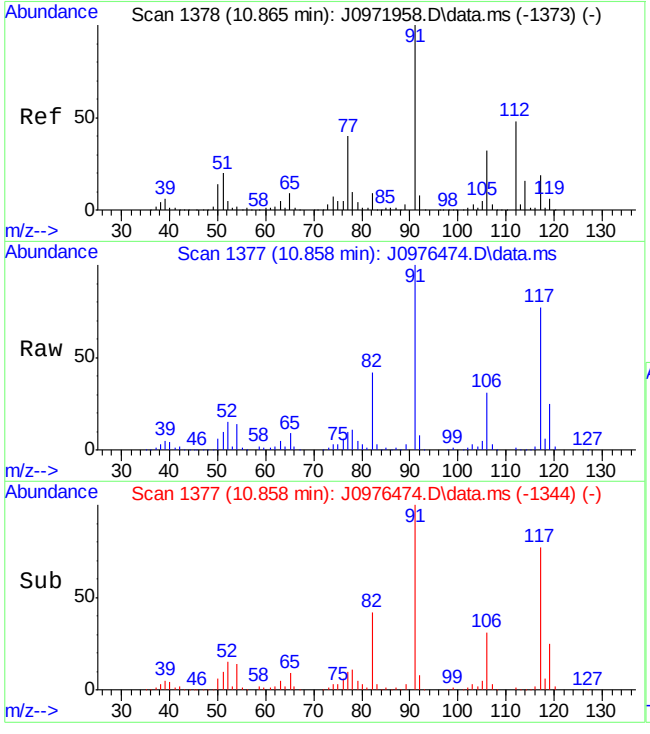



#58
Toluene
Concen: 0.38 ug/L
RT: 9.356 min Scan# 1130
Delta R.T. -0.000 min
Lab File: J0976474.D
Acq: 13 May 2016 11:48 am

Tgt Ion: 91 Resp: 10426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 43.5 | 28.5 | 88.5 |

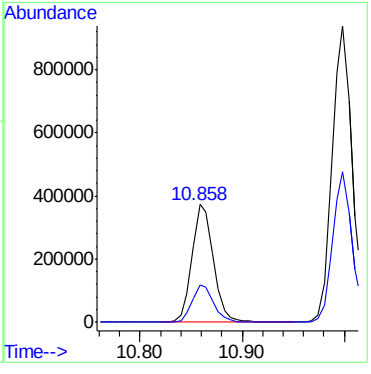


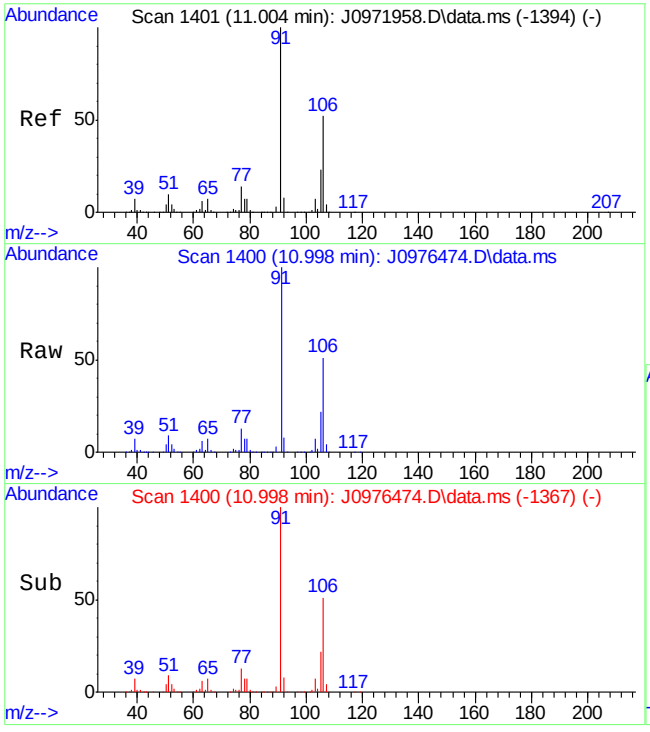




#70
Ethylbenzene
Concen: 16.69 ug/L
RT: 10.858 min Scan# 1377
Delta R.T. 0.000 min
Lab File: J0976474.D
Acq: 13 May 2016 11:48 am

Tgt Ion: 91 Resp: 537279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 3.4 | 63.4 |

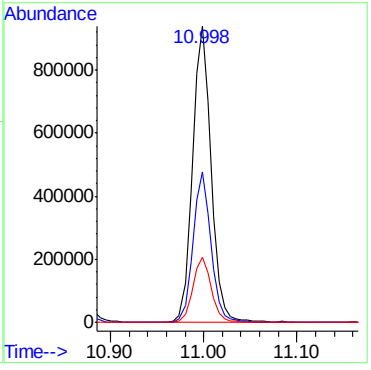


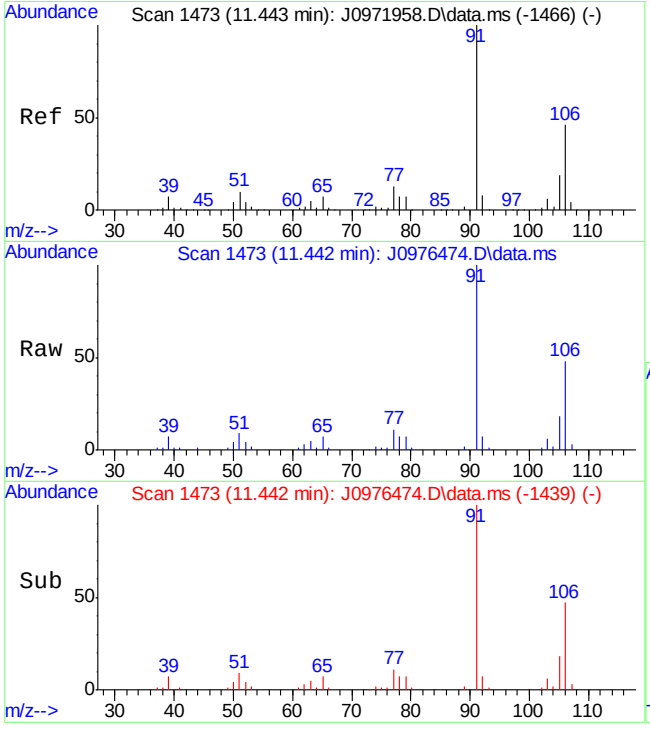



#73
m,p-Xylene
Concen: 54.36 ug/L
RT: 10.998 min Scan# 1400
Delta R.T. 0.000 min
Lab File: J0976474.D
Acq: 13 May 2016 11:48 am

Tgt Ion: 91 Resp: 1297697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 50.6 | 24.4 | 84.4 |
| 105 | 22.1 | 0.0 | 55.0 |

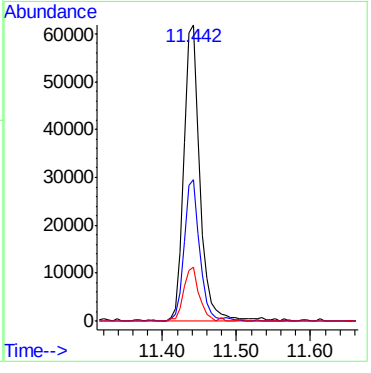


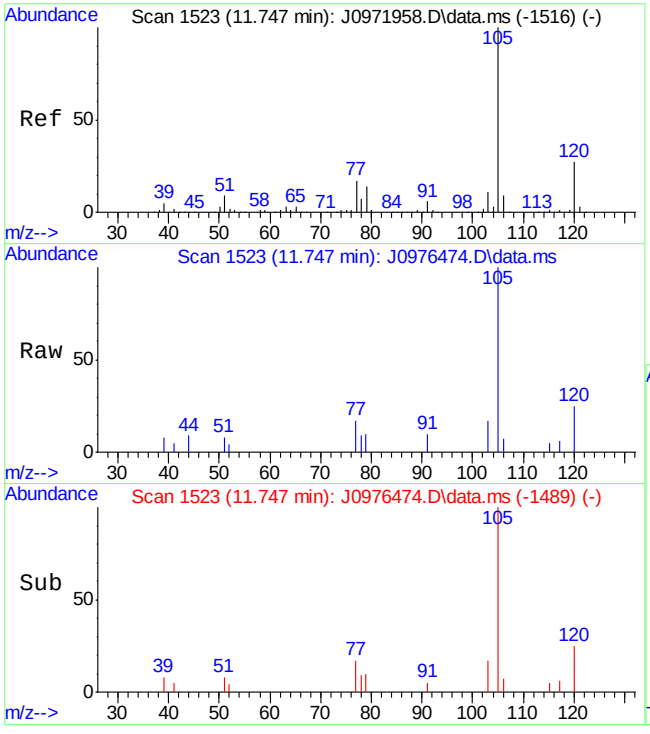




#74
o-Xylene
Concen: 3.95 ug/L
RT: 11.442 min Scan# 1473
Delta R.T. 0.006 min
Lab File: J0976474.D
Acq: 13 May 2016 11:48 am

Tgt Ion: 91 Resp: 93990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 47.9 | 18.0 | 78.0 |
| 105 | 18.2 | 0.0 | 49.8 |

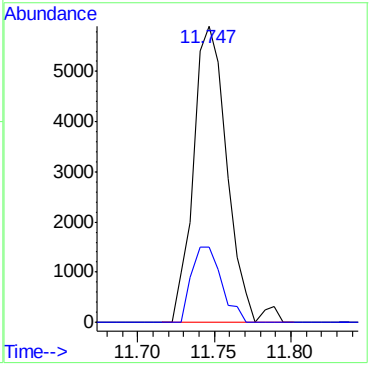


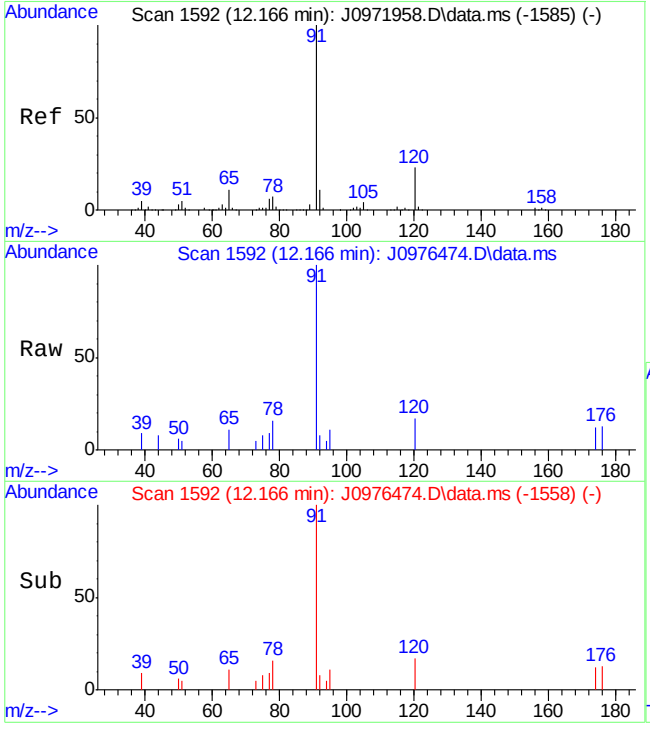



#77
Isopropylbenzene
Concen: 0.30 ug/L
RT: 11.747 min Scan# 1523
Delta R.T. 0.007 min
Lab File: J0976474.D
Acq: 13 May 2016 11:48 am

Tgt Ion:105 Resp: 9050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.2 | 0.0 | 58.1 |

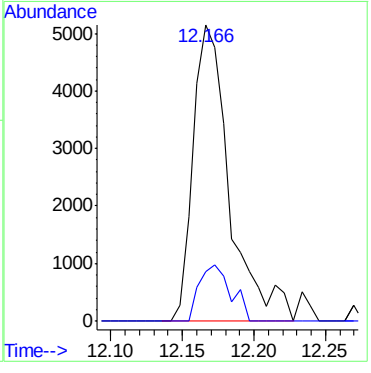


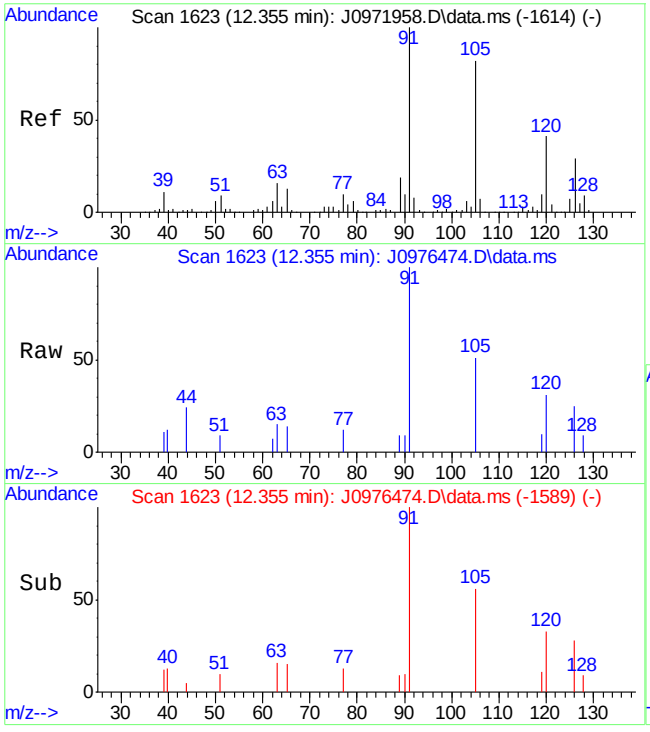




#81
n-Propylbenzene
Concen: 0.25 ug/L
RT: 12.166 min Scan# 1592
Delta R.T. 0.006 min
Lab File: J0976474.D
Acq: 13 May 2016 11:48 am

Tgt Ion: 91 Resp: 9119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 16.8 | 0.0 | 54.6 |

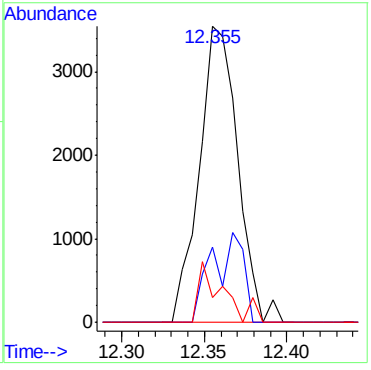


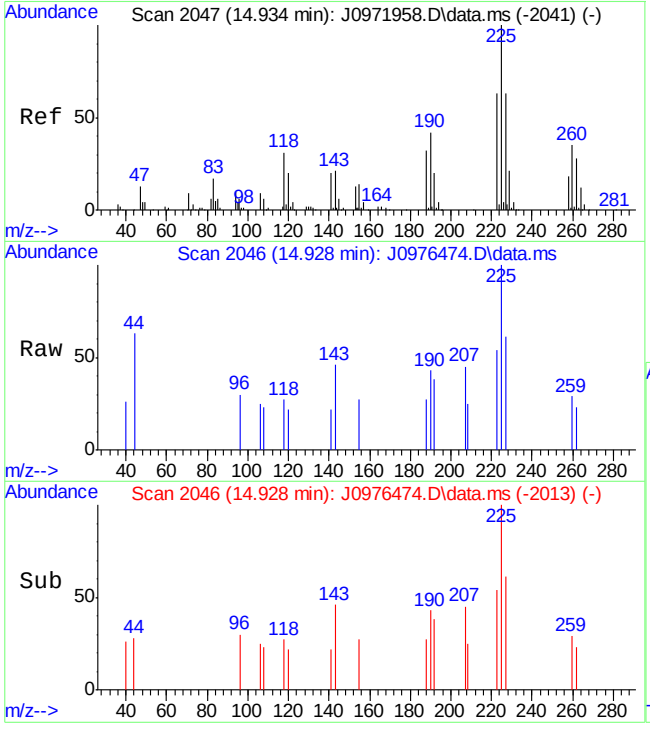



#85
2-Chlorotoluene
Concen: 0.22 ug/L
RT: 12.355 min Scan# 1623
Delta R.T. 0.006 min
Lab File: J0976474.D
Acq: 13 May 2016 11:48 am

Tgt Ion: 91 Resp: 5719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 25.5 | 0.0 | 60.0 |
| 89 | 8.5 | 0.0 | 48.5 |

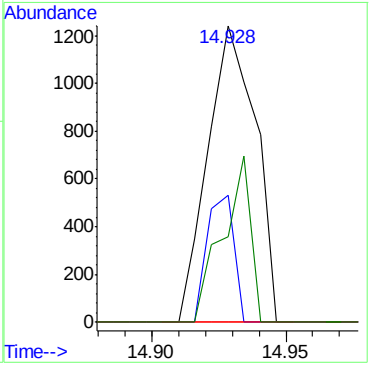



#102
Hexachlorobutadiene
Concen: 0.28 ug/L
RT: 14.928 min Scan# 2046
Delta R.T. 0.000 min
Lab File: J0976474.D
Acq: 13 May 2016 11:48 am

Tgt Ion:225 Resp: 1532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 190 | 42.9 | 13.7 | 73.7 |
| 119 | 0.0 | 0.0 | 33.2 |
| 260 | 28.8 | 5.5 | 65.5 |



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976471.D
Acq On : 13 May 2016 10:39 am
Operator : darshnap
Sample : fa33878-6 ma Inst : MSVOA6
Misc : MS33859,VJ5296,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 11:26:14 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

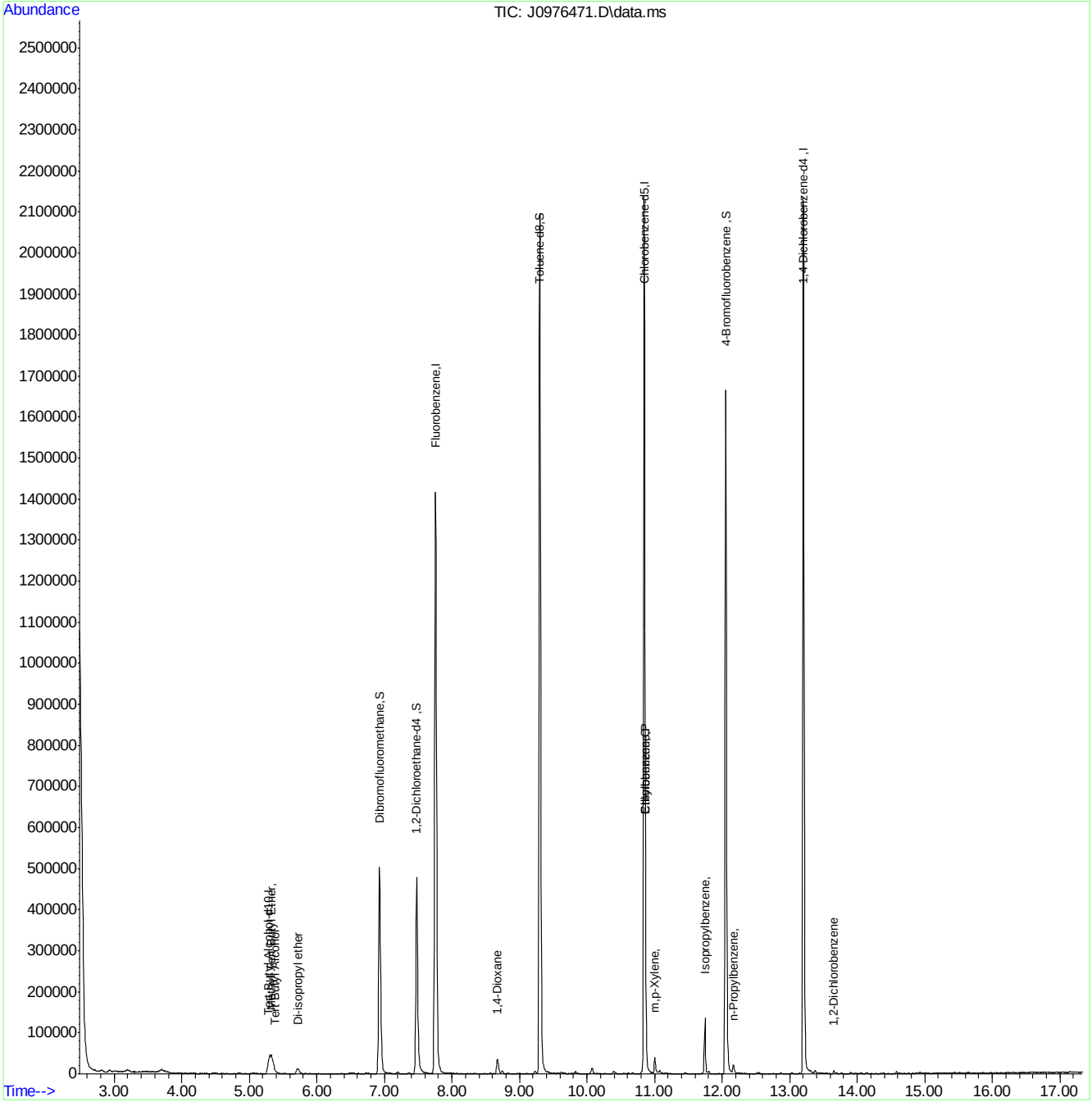
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1270416 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 960967 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.207 | 152 | 505691 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.286 | 65 | 69043 | 250.00 | ug/L | -0.01 |
| System Monitoring Compounds | | | | | | |
| 36) Dibromofluoromethane | 6.928 | 113 | 326515 | 51.30 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 102.60% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 370759 | 49.82 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 99.64% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1257681 | 50.82 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 101.64% | | | |
| 79) 4-Bromofluorobenzene | 12.057 | 95 | 488345 | 52.96 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 105.92% | | | |
| Target Compounds | | | | | | Qvalue |
| 21) Methyl Tert Butyl Ether | 5.328 | 73 | 45256 | 2.43 | ug/L | 94 |
| 23) Di-isopropyl ether | 5.724 | 45 | 14171 | 0.69 | ug/L | 93 |
| 70) Ethylbenzene | 10.864 | 91 | 23215 | 0.64 | ug/L | 87 |
| 71) Chlorobenzene | 10.864 | 112 | 11263 | 0.55 | ug/L | 71 |
| 73) m,p-Xylene | 11.004 | 91 | 24595 | 0.87 | ug/L | 92 |
| 77) Isopropylbenzene | 11.747 | 105 | 80021 | 2.44 | ug/L | 98 |
| 81) n-Propylbenzene | 12.166 | 91 | 15500 | 0.40 | ug/L | 88 |
| 100) 1,2-Dichlorobenzene | 13.651 | 146 | 2863 | 0.21 | ug/L | 81 |
| 109) Tert Butyl Alcohol | 5.377 | 59 | 3155 | 8.79 | ug/L # | 66 |
| 112) 1,4-Dioxane | 8.674 | 88 | 27508 | 707.19 | ug/L | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

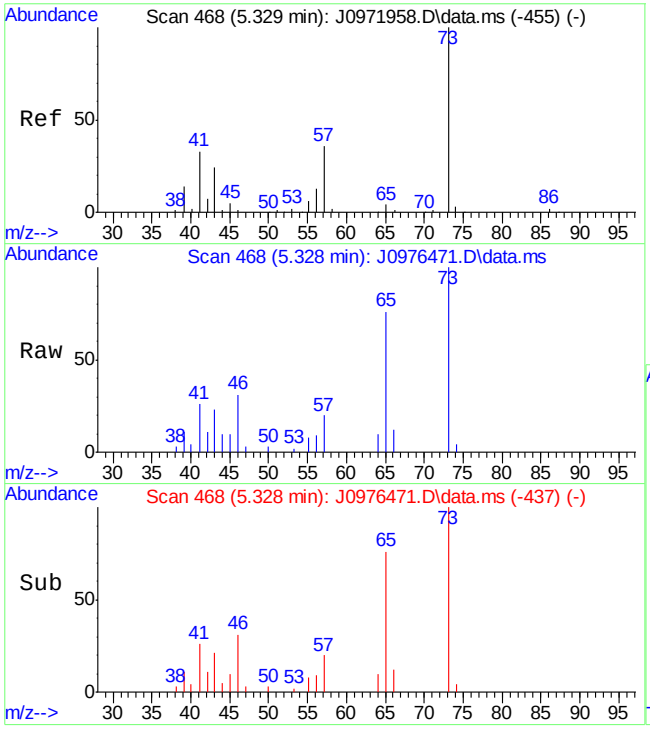
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976471.D
Acq On : 13 May 2016 10:39 am
Operator : darshnap
Sample : fa33878-6 ma Inst : MSVOA6
Misc : MS33859,VJ5296,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 11:26:14 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



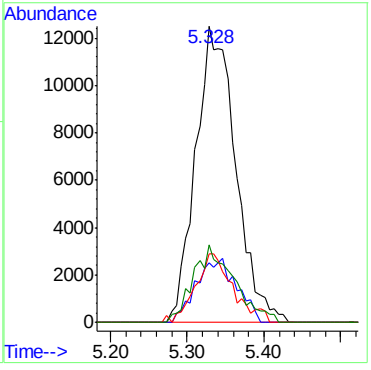

MSJ051216a.M Mon May 16 09:06:37 2016 Page: 2

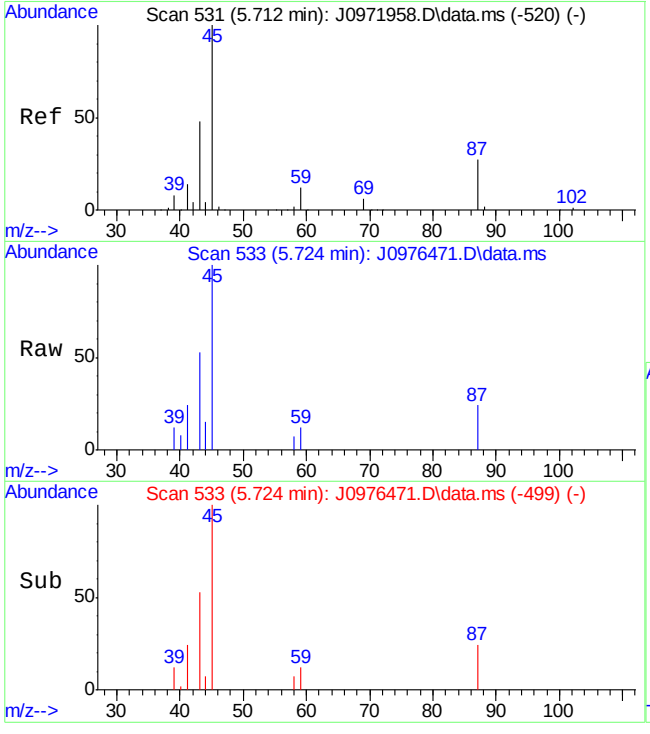



#21
Methyl Tert Butyl Ether
Concen: 2.43 ug/L
RT: 5.328 min Scan# 468
Delta R.T. -0.012 min
Lab File: J0976471.D
Acq: 13 May 2016 10:39 am

Tgt Ion: 73 Resp: 45256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.2 | 0.0 | 58.6 |
| 43 | 23.2 | 0.0 | 53.2 |
| 41 | 26.1 | 0.0 | 55.5 |

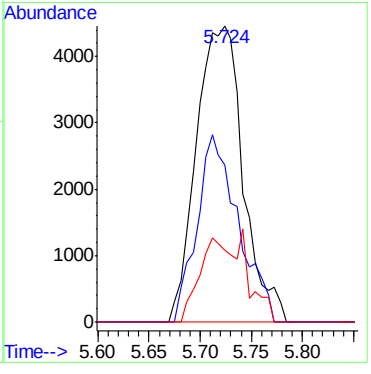



#23
Di-isopropyl ether
Concen: 0.69 ug/L
RT: 5.724 min Scan# 533
Delta R.T. 0.006 min
Lab File: J0976471.D
Acq: 13 May 2016 10:39 am

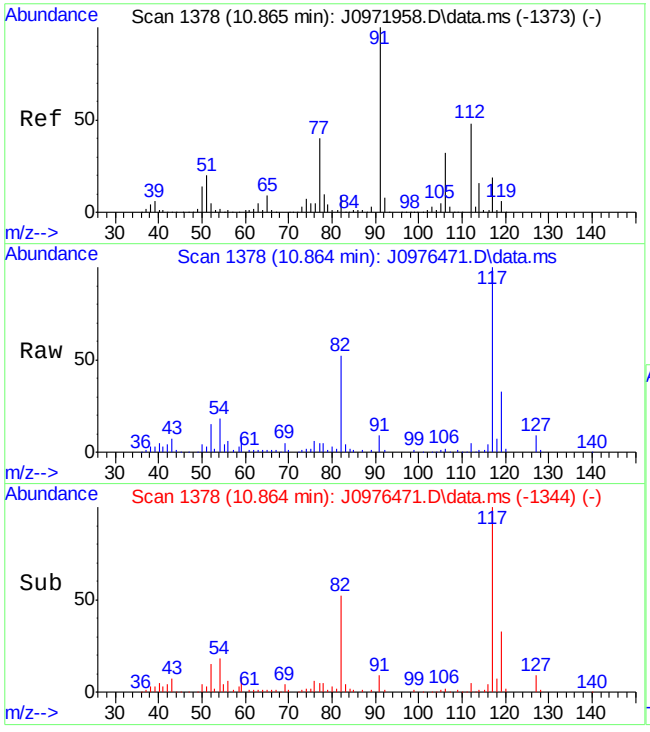
Tgt Ion: 45 Resp: 14171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 52.9 | 19.7 | 79.7 |
| 87 | 24.4 | 0.0 | 59.7 |




7.1.7

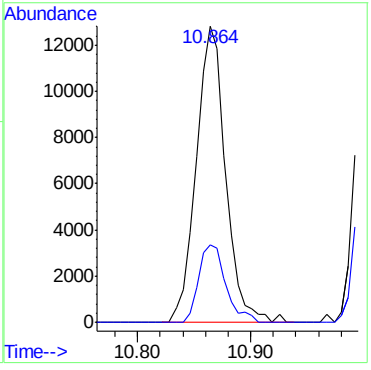
7

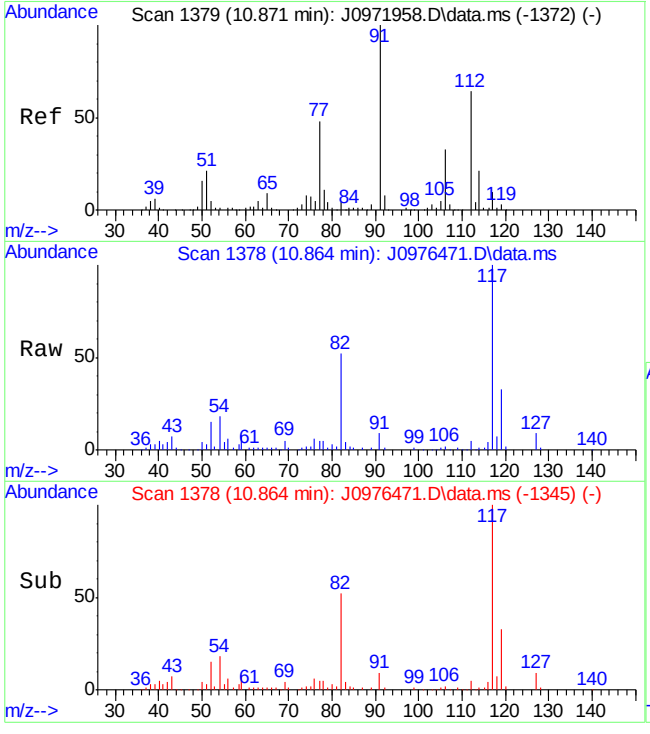



#70
Ethylbenzene
Concen: 0.64 ug/L
RT: 10.864 min Scan# 1378
Delta R.T. 0.006 min
Lab File: J0976471.D
Acq: 13 May 2016 10:39 am

Tgt Ion: 91 Resp: 23215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 26.2 | 3.4 | 63.4 |

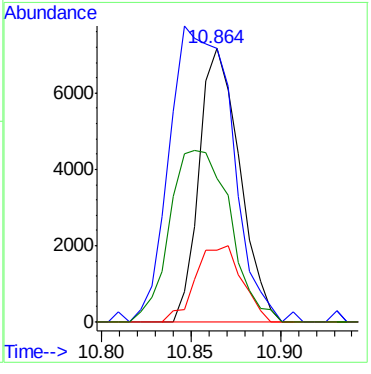


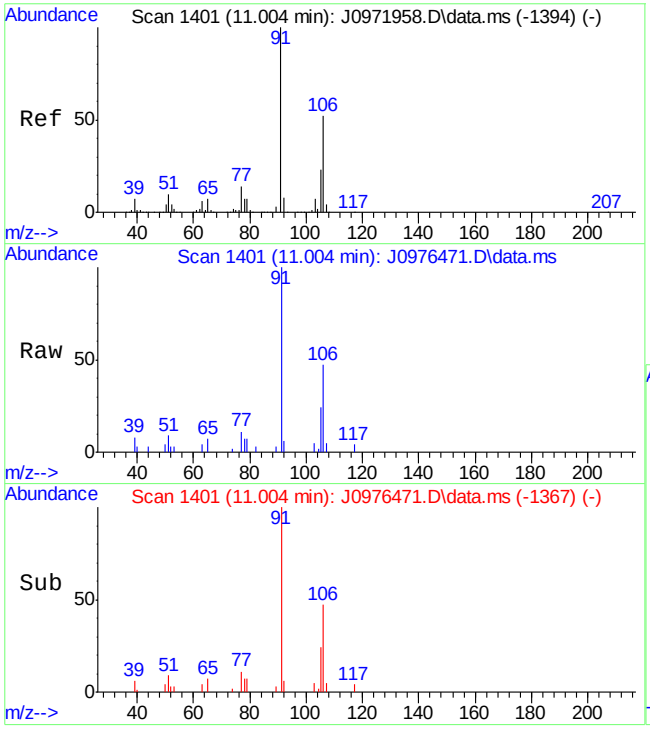




#71
Chlorobenzene
Concen: 0.55 ug/L
RT: 10.864 min Scan# 1378
Delta R.T. 0.000 min
Lab File: J0976471.D
Acq: 13 May 2016 10:39 am

Tgt Ion:112 Resp: 11263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 77 | 96.2 | 39.9 | 99.9 |
| 114 | 26.1 | 2.6 | 62.6 |
| 51 | 52.4 | 0.2 | 60.2 |

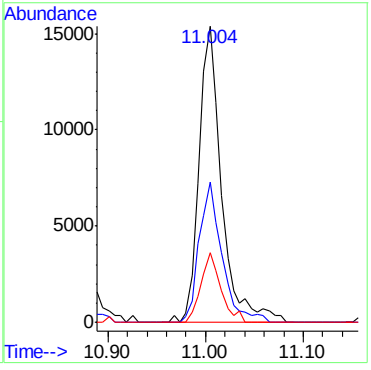


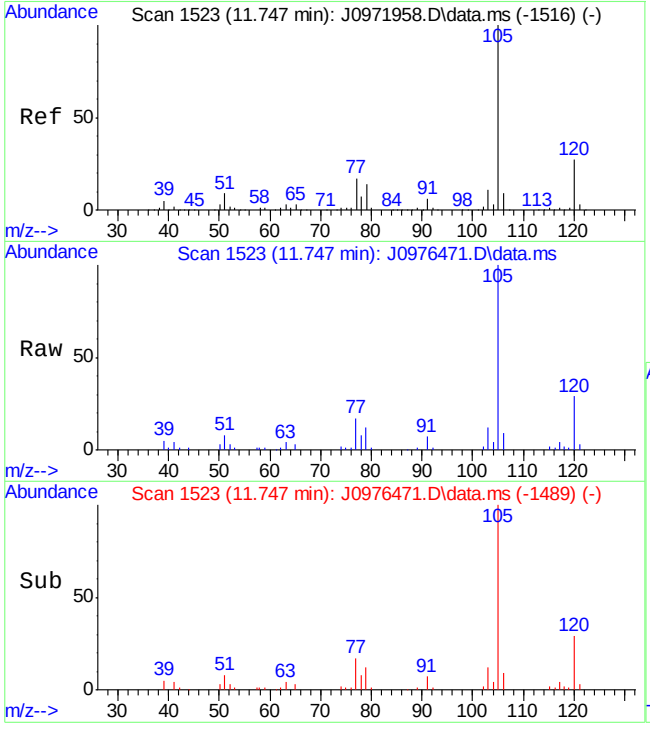



#73
m,p-Xylene
Concen: 0.87 ug/L
RT: 11.004 min Scan# 1401
Delta R.T. 0.006 min
Lab File: J0976471.D
Acq: 13 May 2016 10:39 am

Tgt Ion: 91 Resp: 24595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 47.2 | 24.4 | 84.4 |
| 105 | 23.5 | 0.0 | 55.0 |

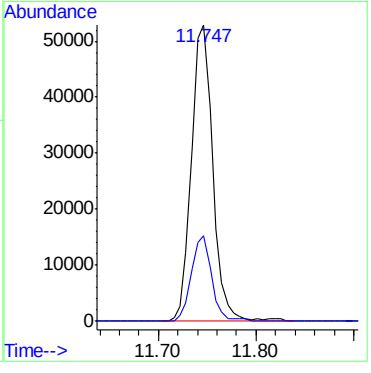



#77
Isopropylbenzene
Concen: 2.44 ug/L
RT: 11.747 min Scan# 1523
Delta R.T. 0.007 min
Lab File: J0976471.D
Acq: 13 May 2016 10:39 am

Tgt Ion:105 Resp: 80021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 29.0 | 0.0 | 58.1 |

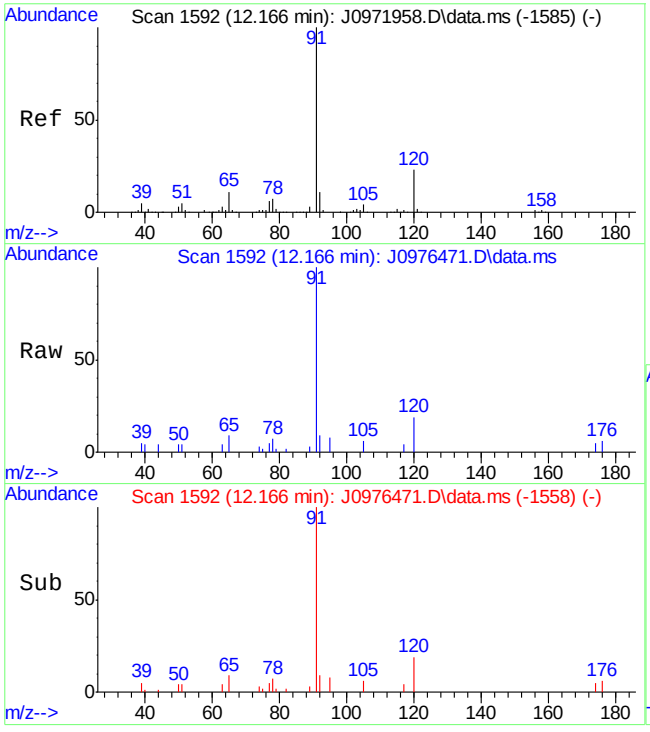








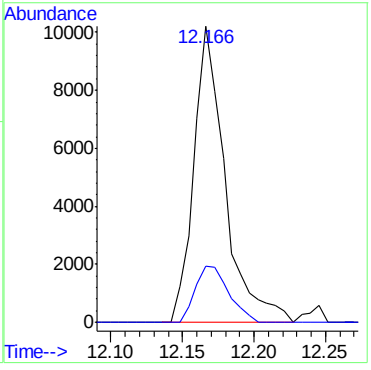

SGS ACCUTEST FA33878

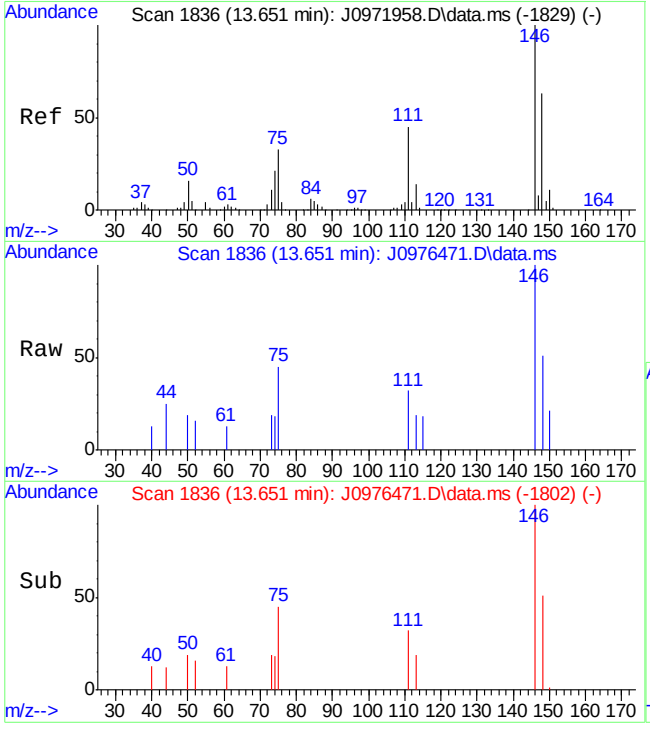



#81
n-Propylbenzene
Concen: 0.40 ug/L
RT: 12.166 min Scan# 1592
Delta R.T. 0.006 min
Lab File: J0976471.D
Acq: 13 May 2016 10:39 am

Tgt Ion: 91 Resp: 15500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 18.9 | 0.0 | 54.6 |

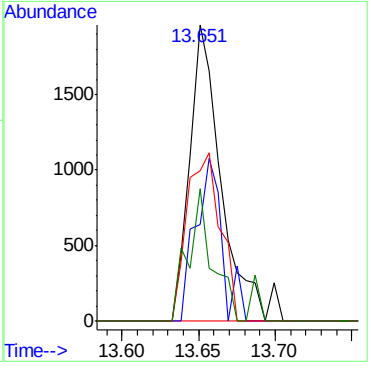


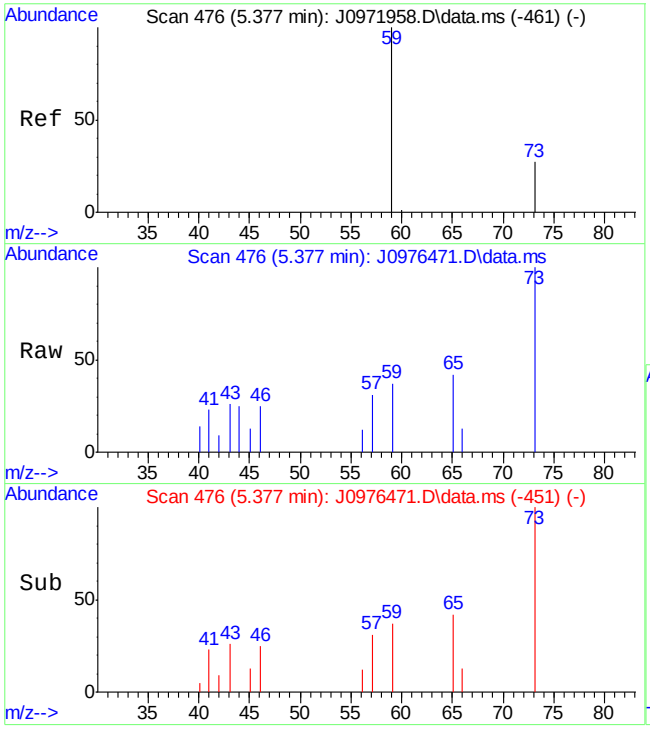




#100
1,2-Dichlorobenzene
Concen: 0.21 ug/L
RT: 13.651 min Scan# 1836
Delta R.T. 0.006 min
Lab File: J0976471.D
Acq: 13 May 2016 10:39 am

Tgt Ion:146 Resp: 2863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 32.4 | 14.4 | 74.4 |
| 148 | 50.7 | 33.2 | 93.2 |
| 75 | 44.8 | 1.0 | 61.0 |

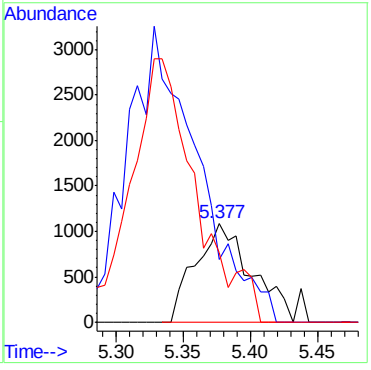


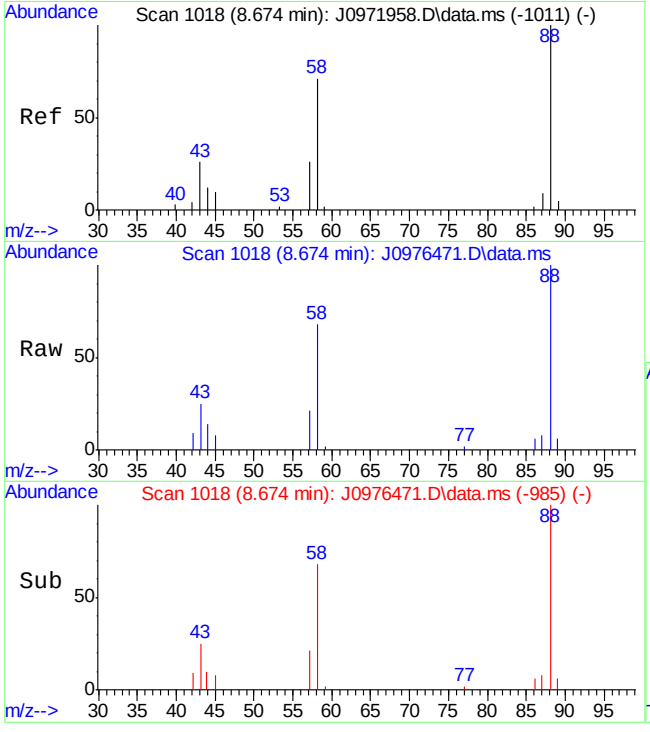



#109
Tert Butyl Alcohol
Concen: 8.79 ug/L
RT: 5.377 min Scan# 476
Delta R.T. 0.000 min
Lab File: J0976471.D
Acq: 13 May 2016 10:39 am

Tgt Ion: 59 Resp: 3155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 41 | 63.5 | 28.8 | 68.8 |
| 43 | 70.0 | 19.1 | 59.1# |

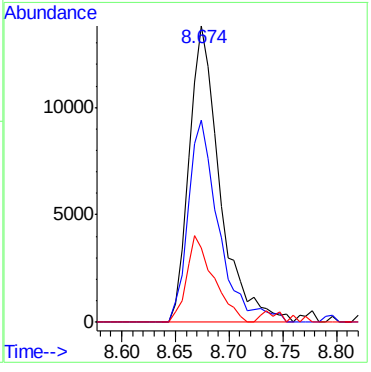



#112
1,4-Dioxane
Concen: 707.19 ug/L
RT: 8.674 min Scan# 1018
Delta R.T. 0.000 min
Lab File: J0976471.D
Acq: 13 May 2016 10:39 am

Tgt Ion: 88 Resp: 27508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 58 | 68.0 | 34.8 | 94.8 |
| 43 | 24.9 | 0.0 | 53.3 |




7.1.7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976457.D
Acq On : 12 May 2016 2:08 pm
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 08:05:50 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1269918 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 952803 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.207 | 152 | 523232 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.292 | 65 | 81314 | 250.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 36) Dibromofluoromethane | 6.928 | 113 | 325029 | 51.08 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 102.16% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 381557 | 51.29 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 102.58% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1264885 | 51.55 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 103.10% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 494307 | 51.81 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 103.62% | | | |
| Target Compounds | | | | | | Qvalue |
| 105) 1,2,3-Trichlorobenzene | 15.433 | 180 | 5415 | 0.68 | ug/L # | 70 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.2.1

7

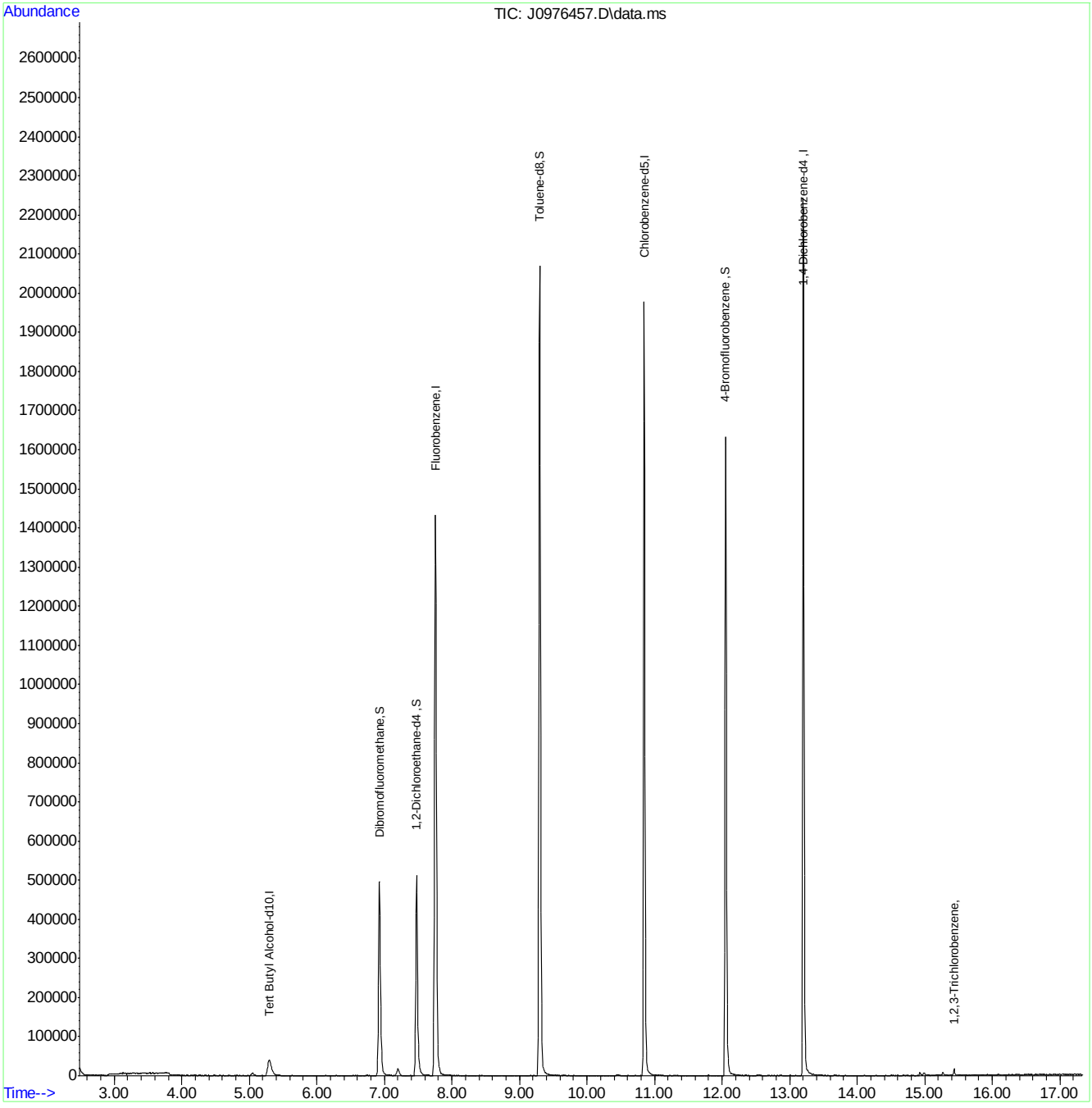


SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

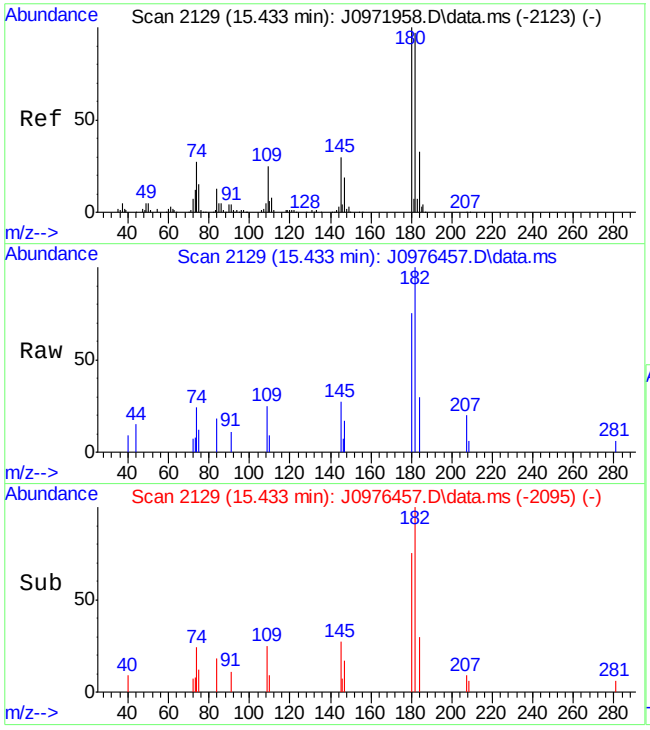
Data Path : C:\msdchem\2\data\051216\
Data File : J0976457.D
Acq On : 12 May 2016 2:08 pm
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 08:05:50 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration





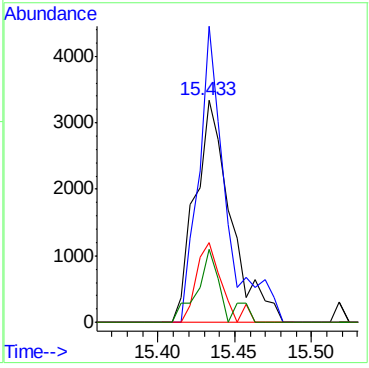

SGS ACCUTEST FA33878




#105
1,2,3-Trichlorobenzene
Concen: 0.68 ug/L
RT: 15.433 min Scan# 2129
Delta R.T. 0.006 min
Lab File: J0976457.D
Acq: 12 May 2016 2:08 pm

Tgt Ion:180 Resp: 5415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 133.3 | 64.6 | 124.6# |
| 145 | 35.9 | 0.1 | 60.1 |
| 109 | 32.7 | 0.0 | 54.0 |




7.2.1

7



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115589.D
Acq On : 12 May 2016 4:16 pm
Operator : ericp
Sample : MB MA Inst : MSVOA5
Misc : ms33850,vc4595,5.00,,,5,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 13 07:29:47 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

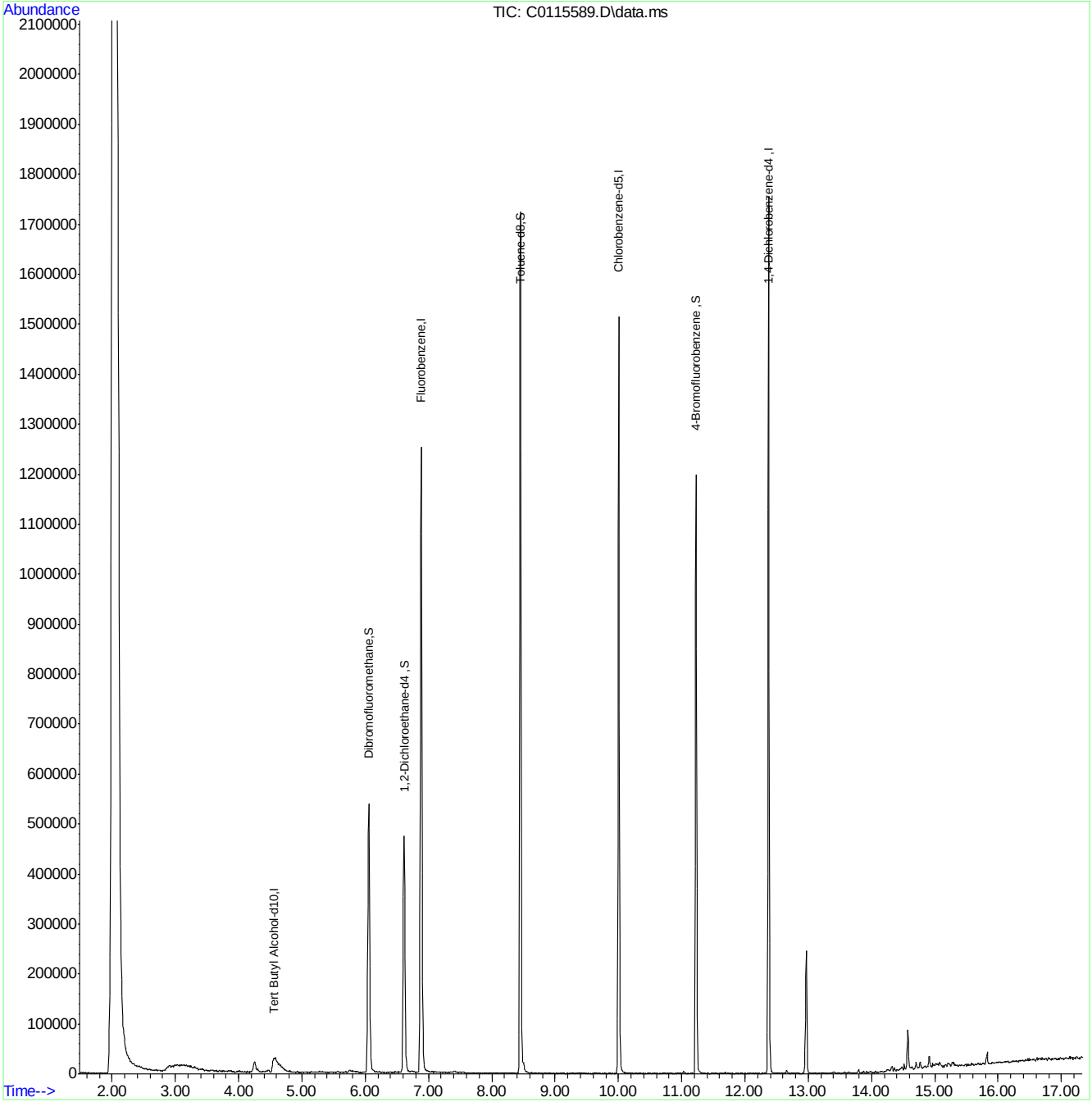
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 6.883 | 96 | 1014545 | 50.00 | ug/Kg | 0.00 |
| 54) Chlorobenzene-d5 | 10.004 | 117 | 690448 | 50.00 | ug/Kg | 0.00 |
| 76) 1,4-Dichlorobenzene-d4 | 12.371 | 152 | 355851 | 50.00 | ug/Kg | 0.00 |
| 103) Tert Butyl Alcohol-d10 | 4.560 | 65 | 83457 | 250.00 | ug/Kg | 0.04 |
| System Monitoring Compounds | | | | | | |
| 35) Dibromofluoromethane | 6.056 | 113 | 336163 | 56.65 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 113.30% | | | |
| 44) 1,2-Dichloroethane-d4 | 6.616 | 65 | 367840 | 54.63 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 72 - 135 | | Recovery = 109.26% | | | |
| 55) Toluene-d8 | 8.453 | 98 | 947012 | 47.24 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 126 | | Recovery = 94.48% | | | |
| 77) 4-Bromofluorobenzene | 11.227 | 174 | 226382 | 48.90 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 71 - 133 | | Recovery = 97.80% | | | |
| Target Compounds | | | | | | Qvalue |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115589.D
Acq On : 12 May 2016 4:16 pm
Operator : ericp
Sample : MB MA Inst : MSVOA5
Misc : ms33850,vc4595,5.00,,,5,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 13 07:29:47 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration










SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976470.D
Acq On : 13 May 2016 10:13 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS33859,VJ5296,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 11:25:20 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1294398 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 965080 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.207 | 152 | 522102 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.304 | 65 | 81117 | 250.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 36) Dibromofluoromethane | 6.928 | 113 | 330766 | 51.00 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 102.00% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 387475 | 51.10 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 102.20% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1294741 | 52.09 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 104.18% | | | |
| 79) 4-Bromofluorobenzene | 12.057 | 95 | 493147 | 51.80 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 103.60% | | | |

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.2.3

7

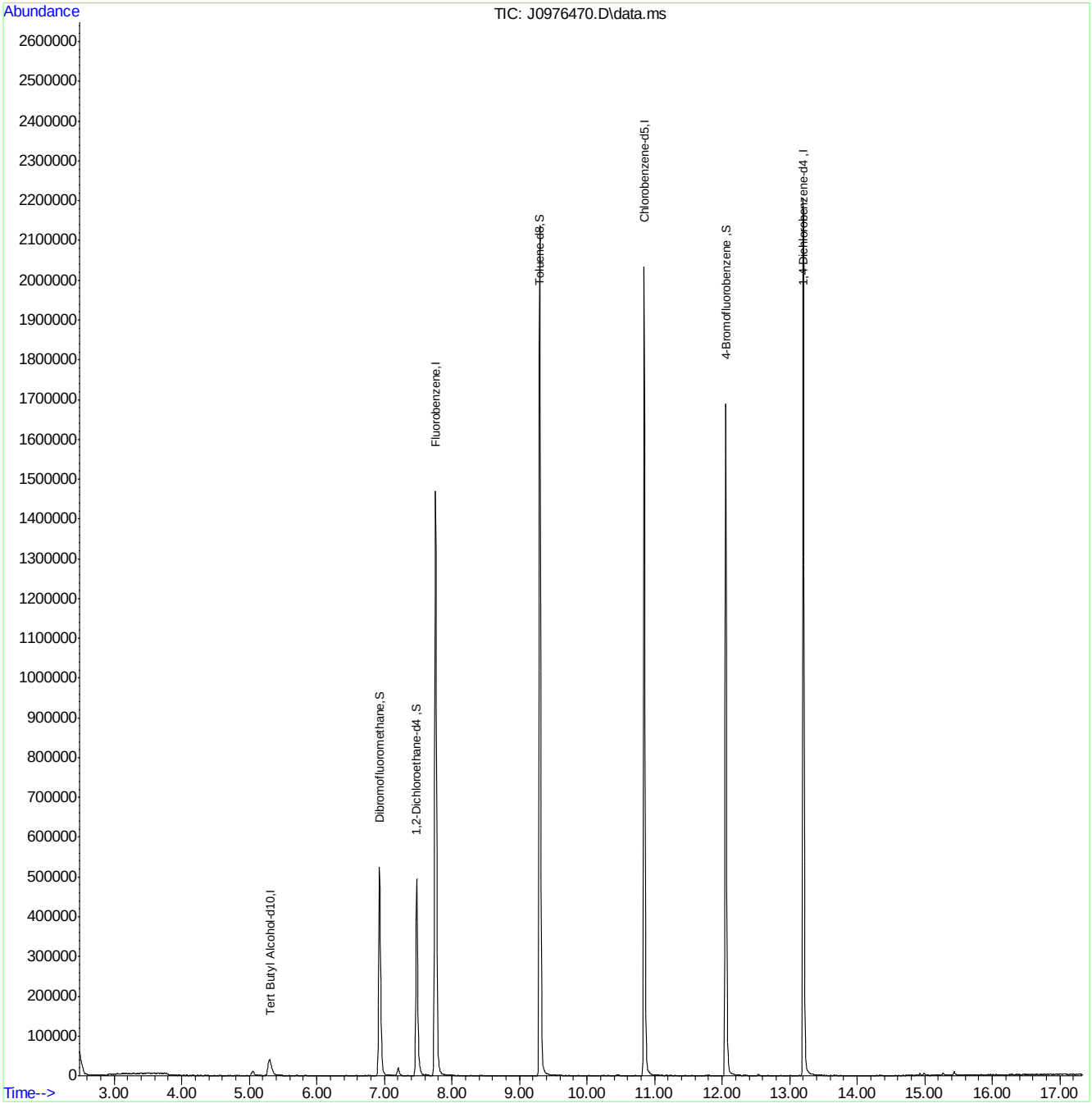


SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976470.D
Acq On : 13 May 2016 10:13 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS33859,VJ5296,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 13 11:25:20 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration










SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976456.D
Acq On : 12 May 2016 1:45 pm
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 08:02:41 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1418135 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 1104667 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.201 | 152 | 616596 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.304 | 65 | 88547 | 250.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 36) Dibromofluoromethane | 6.928 | 113 | 350727 | 49.36 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 98.72% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.482 | 65 | 411199 | 49.50 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 99.00% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1419510 | 49.89 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 99.78% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 564021 | 50.17 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 100.34% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.700 | 85 | 193230 | 34.48 | ug/L | 95 |
| 3) Chloromethane | 2.895 | 50 | 230784 | 31.65 | ug/L | 95 |
| 4) Vinyl Chloride | 3.047 | 62 | 254659 | 31.95 | ug/L | 99 |
| 5) 1,3-Butadiene | 3.047 | 54 | 4212 | 21.73 | ug/L # | 62 |
| 6) Bromomethane | 3.461 | 94 | 153964 | 31.22 | ug/L | 100 |
| 7) Chloroethane | 3.625 | 64 | 115636 | 32.64 | ug/L | 96 |
| 8) Trichlorofluoromethane | 3.850 | 101 | 336680m | 33.17 | ug/L | |
| 9) Ethyl Ether | 4.124 | 59 | 127598 | 22.59 | ug/L | 96 |
| 10) 1,2-Dichlorotrifluoroe... | 4.367 | 67 | 226470 | 26.16 | ug/L | 98 |
| 11) 1,1-Dichloroethene | 4.404 | 61 | 293922 | 28.09 | ug/L | 100 |
| 12) Freon 113 | 4.471 | 101 | 187408 | 25.90 | ug/L | 97 |
| 13) Carbon Disulfide | 4.477 | 76 | 604486 | 25.76 | ug/L | 99 |
| 14) Iodomethane | 4.592 | 142 | 288757 | 24.84 | ug/L | 97 |
| 15) Allyl chloride | 4.927 | 41 | 217192 | 24.31 | ug/L | 93 |
| 16) Methylene Chloride | 5.055 | 49 | 222663 | 23.24 | ug/L | 99 |
| 17) Acetone | 5.073 | 58 | 49193 | 112.91 | ug/L # | 83 |
| 18) Methyl acetate | 5.195 | 74 | 88367 | 107.81 | ug/L # | 92 |
| 19) trans-1,2-Dichloroethene | 5.231 | 61 | 280906 | 29.09 | ug/L | 98 |
| 20) Hexane | 5.304 | 56 | 163835 | 25.20 | ug/L | 98 |
| 21) Methyl Tert Butyl Ether | 5.341 | 73 | 438473 | 21.09 | ug/L | 95 |
| 22) Acetonitrile | 5.602 | 40 | 59144 | 222.42 | ug/L | 89 |
| 23) Di-isopropyl ether | 5.718 | 45 | 509837 | 22.13 | ug/L | 100 |
| 24) Chloroprene | 5.876 | 53 | 251928 | 26.96 | ug/L | 98 |
| 25) 1,1-Dichloroethane | 5.900 | 63 | 339944 | 26.02 | ug/L | 97 |
| 26) Acrylonitrile | 5.925 | 53 | 195088 | 113.01 | ug/L | 95 |
| 27) ETBE | 6.119 | 59 | 521763 | 22.12 | ug/L | 99 |
| 28) Vinyl acetate | 6.107 | 43 | 1237384 | 116.70 | ug/L | 100 |
| 29) cis-1,2-Dichloroethene | 6.478 | 96 | 197281 | 23.72 | ug/L | 97 |
| 30) 2,2-Dichloropropane | 6.606 | 77 | 282752 | 25.98 | ug/L | 99 |
| 31) Bromochloromethane | 6.691 | 128 | 86692 | 22.15 | ug/L | 97 |
| 32) Cyclohexane | 6.734 | 56 | 317968 | 26.05 | ug/L | 98 |
| 33) Chloroform | 6.740 | 83 | 349673 | 24.44 | ug/L | 99 |
| 34) Ethyl acetate | 6.807 | 43 | 470055 | 119.46 | ug/L | 97 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976456.D
Acq On : 12 May 2016 1:45 pm
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 08:02:41 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) Tetrahydrofuran | 6.916 | 42 | 27025 | 22.61 ug/L | 89 |
| 37) Carbon Tetrachloride | 6.934 | 117 | 274487m | 24.79 ug/L | |
| 38) 1,1,1-Trichloroethane | 6.995 | 97 | 305264 | 23.92 ug/L | 97 |
| 39) 2-Butanone | 7.026 | 43 | 200897 | 107.47 ug/L | 95 |
| 40) 1,1-Dichloropropene | 7.105 | 75 | 251215 | 25.28 ug/L | 99 |
| 41) tert-Butyl Formate | 7.190 | 59 | 1032705 | 213.50 ug/L | 97 |
| 42) Propionitrile | 7.336 | 54 | 146568 | 232.05 ug/L | 93 |
| 43) Methacrylonitrile | 7.360 | 41 | 644054 | 235.19 ug/L | 97 |
| 44) Benzene | 7.360 | 78 | 780152 | 24.52 ug/L | 99 |
| 45) TAME | 7.433 | 73 | 464448 | 21.32 ug/L | 96 |
| 47) 1,2-Dichloroethane | 7.549 | 62 | 239344 | 23.35 ug/L | 98 |
| 48) Trichloroethene | 7.938 | 95 | 203160 | 25.46 ug/L | 95 |
| 49) Methylcyclohexane | 7.957 | 83 | 373161 | 27.20 ug/L | 97 |
| 50) Dibromomethane | 8.364 | 93 | 100308 | 22.54 ug/L | 94 |
| 51) 1,2-Dichloropropane | 8.449 | 63 | 178465 | 22.98 ug/L | 96 |
| 52) Bromodichloromethane | 8.498 | 83 | 242488 | 23.58 ug/L | 99 |
| 53) Methyl methacrylate | 8.595 | 41 | 93086 | 24.10 ug/L | 99 |
| 54) 2-Chloroethyl vinyl ether | 9.009 | 63 | 463459 | 121.01 ug/L | 97 |
| 55) cis-1,3-Dichloropropene | 9.112 | 75 | 284555 | 23.96 ug/L | 99 |
| 58) Toluene | 9.356 | 91 | 828860 | 24.93 ug/L | 99 |
| 59) 2-Nitropropane | 9.556 | 41 | 132259 | 108.64 ug/L | 97 |
| 60) 4-Methyl-2-pentanone | 9.672 | 43 | 509664 | 103.30 ug/L | 99 |
| 61) trans-1,3-Dichloropropene | 9.739 | 75 | 258147 | 25.55 ug/L | 97 |
| 62) Tetrachloroethene | 9.757 | 166 | 221770 | 26.82 ug/L | 95 |
| 63) Ethyl methacrylate | 9.842 | 69 | 146373 | 19.72 ug/L | 98 |
| 64) 1,1,2-Trichloroethane | 9.903 | 83 | 125125 | 23.00 ug/L | 97 |
| 65) Dibromochloromethane | 10.104 | 129 | 163447 | 22.54 ug/L | 99 |
| 66) 1,3-Dichloropropane | 10.183 | 76 | 241045 | 21.79 ug/L | 97 |
| 67) 1,2-Dibromoethane | 10.360 | 107 | 140722 | 22.63 ug/L | 97 |
| 68) 2-hexanone | 10.487 | 43 | 356772 | 108.12 ug/L | 99 |
| 69) 1-Chlorohexane | 10.798 | 91 | 267439 | 27.23 ug/L | 98 |
| 70) Ethylbenzene | 10.858 | 91 | 985425 | 25.03 ug/L | 98 |
| 71) Chlorobenzene | 10.864 | 112 | 561255 | 24.70 ug/L | 97 |
| 72) 1,1,1,2-Tetrachloroethane | 10.913 | 131 | 186506 | 24.87 ug/L | 97 |
| 73) m,p-Xylene | 10.998 | 91 | 1506158 | 50.35 ug/L | 96 |
| 74) o-Xylene | 11.436 | 91 | 747194 | 25.20 ug/L | 99 |
| 75) Styrene | 11.485 | 104 | 570557 | 24.94 ug/L | 99 |
| 76) Bromoform | 11.546 | 173 | 102519 | 21.95 ug/L | 99 |
| 77) Isopropylbenzene | 11.740 | 105 | 945209 | 25.86 ug/L | 99 |
| 80) cis-1,4-Dichloro-2-butene | 12.087 | 53 | 40463 | 21.60 ug/L | 94 |
| 81) n-Propylbenzene | 12.160 | 91 | 1143832 | 25.52 ug/L | 98 |
| 82) Bromobenzene | 12.185 | 156 | 238379 | 23.58 ug/L | 97 |
| 83) 1,1,2,2-Tetrachloroethane | 12.221 | 83 | 175904 | 21.73 ug/L | 96 |
| 84) 1,3,5-Trimethylbenzene | 12.343 | 105 | 827547 | 24.58 ug/L | 99 |
| 85) 2-Chlorotoluene | 12.349 | 91 | 794616 | 25.03 ug/L | 99 |
| 86) trans-1,4-Dichloro-2-B... | 12.398 | 53 | 40269 | 21.23 ug/L | 93 |
| 87) 1,2,3-Trichloropropane | 12.379 | 110 | 48322 | 22.64 ug/L | 99 |
| 88) Cyclohexanone | 12.452 | 55 | 18525 | 98.69 ug/L | 91 |
| 89) 4-Chlorotoluene | 12.519 | 91 | 712229 | 24.31 ug/L | 100 |
| 90) a-Methyl Styrene | 12.750 | 118 | 6982 | 0.41 ug/L # | 1 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976456.D
Acq On : 12 May 2016 1:45 pm
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 08:02:41 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 91) | tert-Butylbenzene | 12.683 | 91 | 469366 | 25.34 | ug/L | 96 |
| 92) | 1,2,4-Trimethylbenzene | 12.750 | 105 | 814219 | 24.21 | ug/L | 99 |
| 93) | Pentachloroethane | 12.738 | 167 | 135541 | 22.17 | ug/L | 98 |
| 94) | sec-Butylbenzene | 12.866 | 105 | 1047204 | 25.97 | ug/L | 99 |
| 95) | 4-Isopropyltoluene | 13.000 | 119 | 875661 | 25.45 | ug/L | 99 |
| 96) | 1,3-Dichlorobenzene | 13.134 | 146 | 432663 | 24.30 | ug/L | 99 |
| 97) | 1,4-Dichlorobenzene | 13.219 | 146 | 436877 | 23.64 | ug/L | 98 |
| 98) | n-Butylbenzene | 13.432 | 92 | 485468 | 26.24 | ug/L | 98 |
| 99) | Benzyl Chloride | 13.450 | 126 | 62041 | 21.40 | ug/L # | 72 |
| 100) | 1,2-Dichlorobenzene | 13.645 | 146 | 385970 | 23.25 | ug/L | 97 |
| 101) | 1,2-Dibromo-3-Chloropr... | 14.381 | 75 | 22938 | 21.55 | ug/L | 93 |
| 102) | Hexachlorobutadiene | 14.928 | 225 | 183506 | 25.88 | ug/L | 97 |
| 103) | 1,2,4-Trichlorobenzene | 14.971 | 180 | 264320 | 23.38 | ug/L | 98 |
| 104) | Naphthalene | 15.257 | 128 | 396624 | 24.06 | ug/L | 99 |
| 105) | 1,2,3-Trichlorobenzene | 15.427 | 180 | 223534 | 23.78 | ug/L | 97 |
| 107) | Ethanol | 4.282 | 45 | 22394m | 511.45 | ug/L | |
| 108) | acrolein | 4.763 | 56 | 96762 | 115.90 | ug/L | 91 |
| 109) | Tert Butyl Alcohol | 5.377 | 59 | 105647 | 236.47 | ug/L | 92 |
| 110) | tert Amyl alcohol | 7.573 | 59 | 76717 | 214.03 | ug/L | 95 |
| 111) | Isobutyl alcohol | 7.452 | 42 | 66420 | 416.87 | ug/L | 96 |
| 112) | 1,4-Dioxane | 8.674 | 88 | 22129 | 437.22 | ug/L | 87 |
| 113) | 3,3-Dimethyl-1-butanol | 10.433 | 57 | 424405 | 1081.78 | ug/L | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.3.1

7

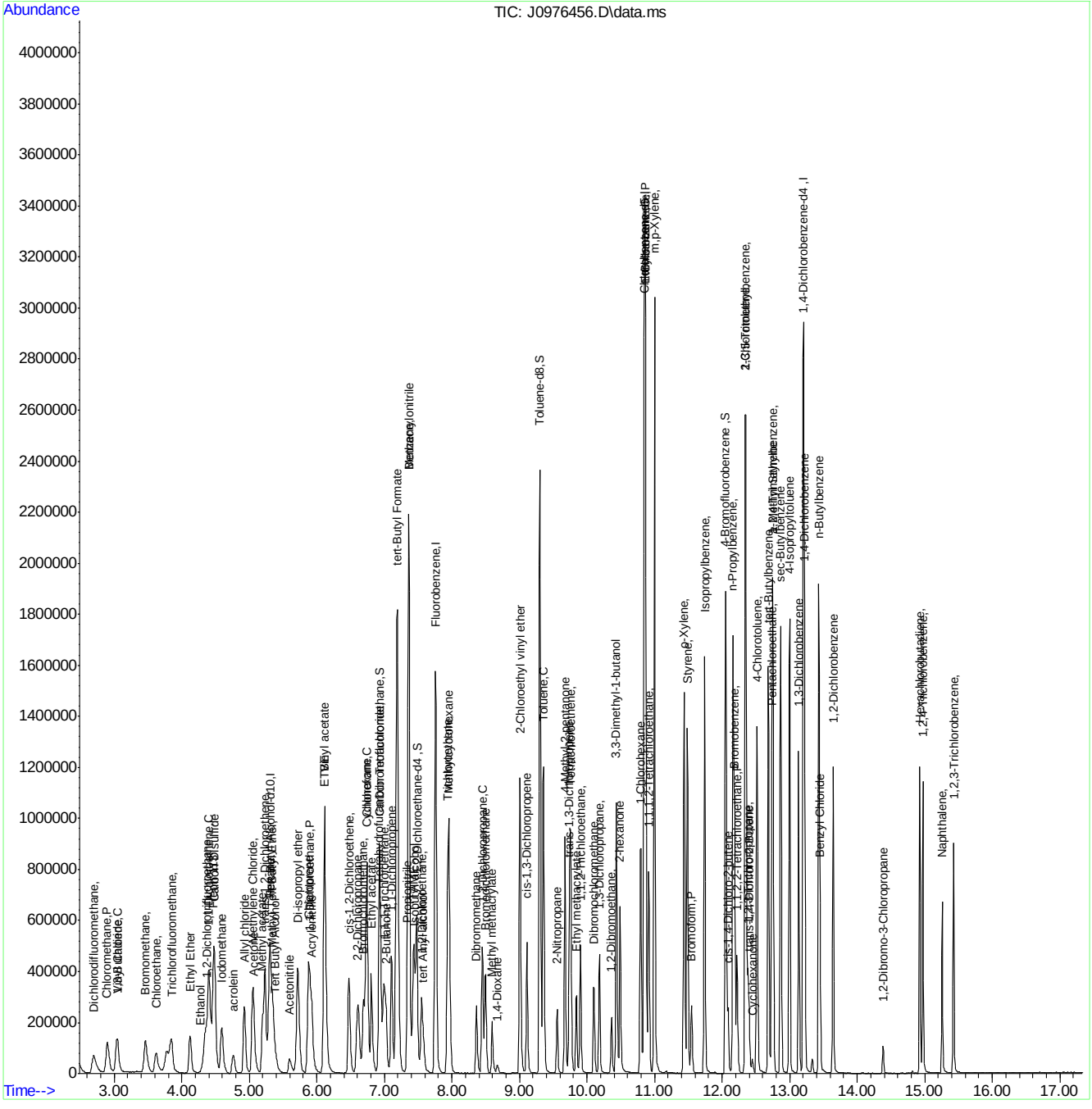


SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976456.D
Acq On : 12 May 2016 1:45 pm
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 08:02:41 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration










SGS ACCUTEST FA33878

# Manual Integration Approval Summary



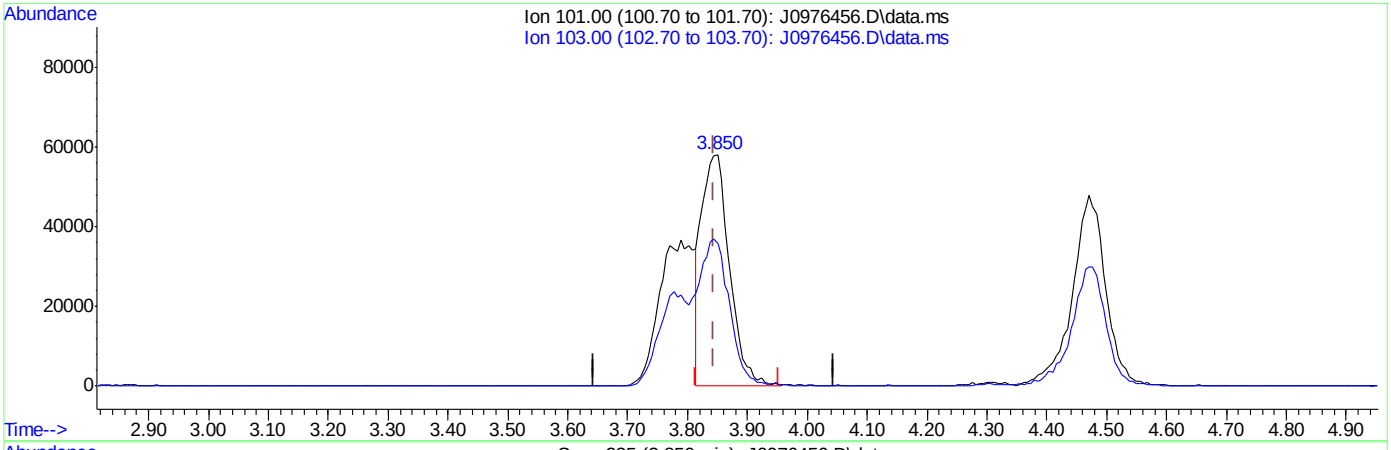
| | | | |
|---|---|---|---|
| **Sample Number:** | VJ5295-BS | **Method:** | SW846 8260C |
| **Lab FileID:** | J0976456.D | **Analyst approved:** | 05/13/16 09:57 Darshna Patel |
| **Injection Time:** | 05/12/16 13:45 | **Supervisor approved:** | 05/13/16 11:32 Melissa Mangual |

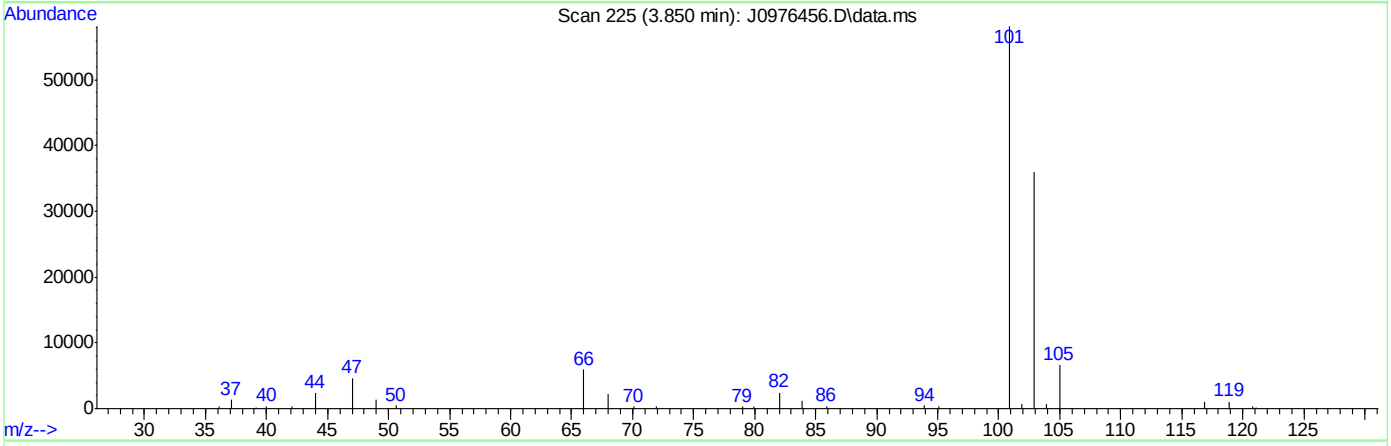
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichlorofluoromethane | 75-69-4 | | 3.85 | Split peak |
| Ethyl Alcohol | 64-17-5 | | 4.28 | Poor instrument integration |
| Carbon Tetrachloride | 56-23-5 | | 6.93 | Overlapping peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976456.D
Acq On : 12 May 2016 1:45 pm
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 08:01:21 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976456.D\data.ms

(8) Trichlorofluoromethane ( )

3.850min (+0.006) 18.48ug/L

response 187536

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 61.03 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

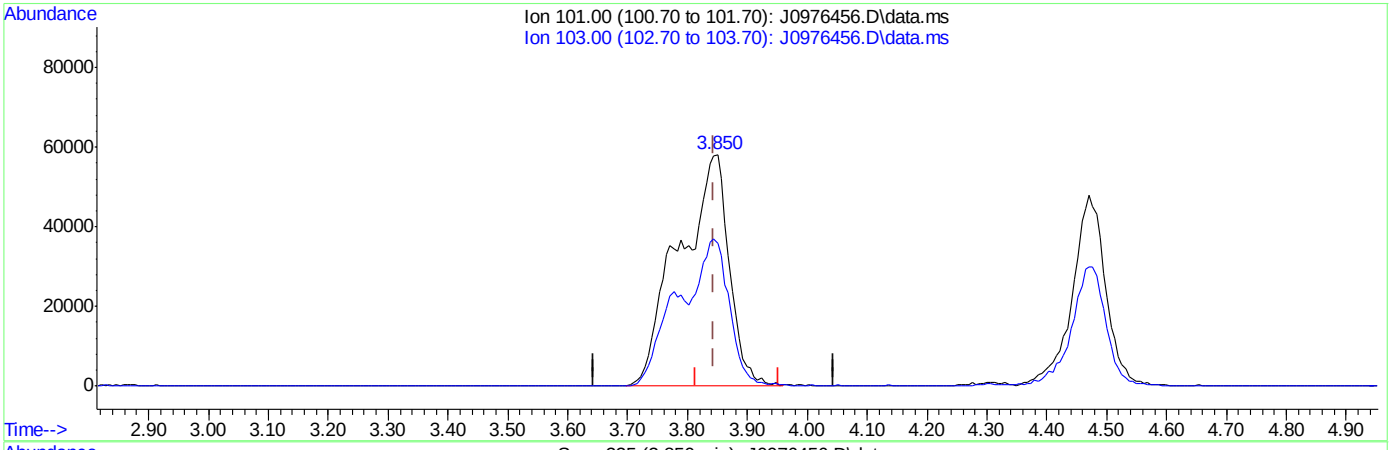


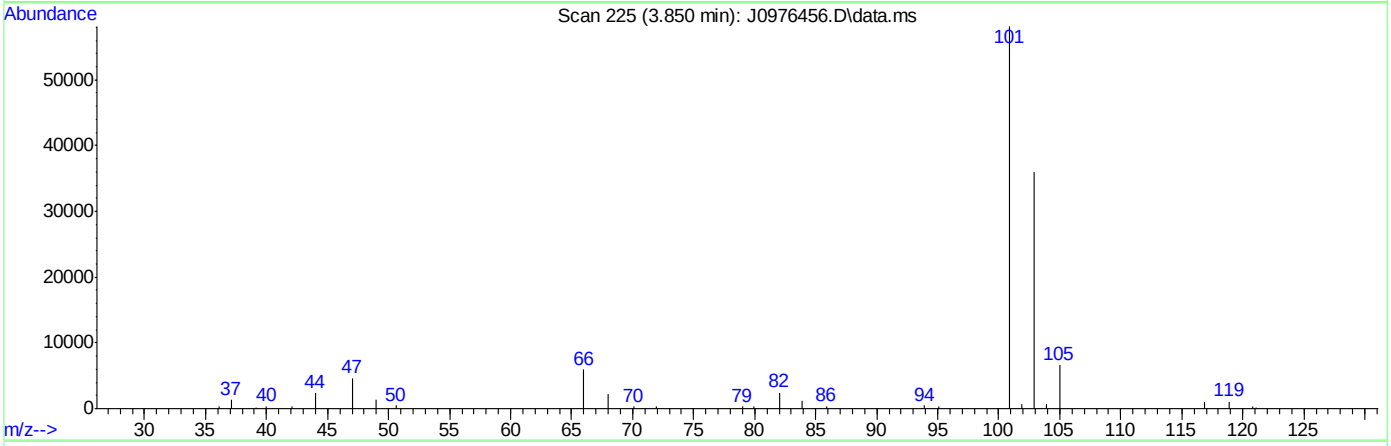
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976456.D
Acq On : 12 May 2016 1:45 pm
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 08:01:21 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976456.D\data.ms

(8) Trichlorofluoromethane ( )

3.850min (+0.006) 33.17ug/L m

response 336680

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 61.77 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

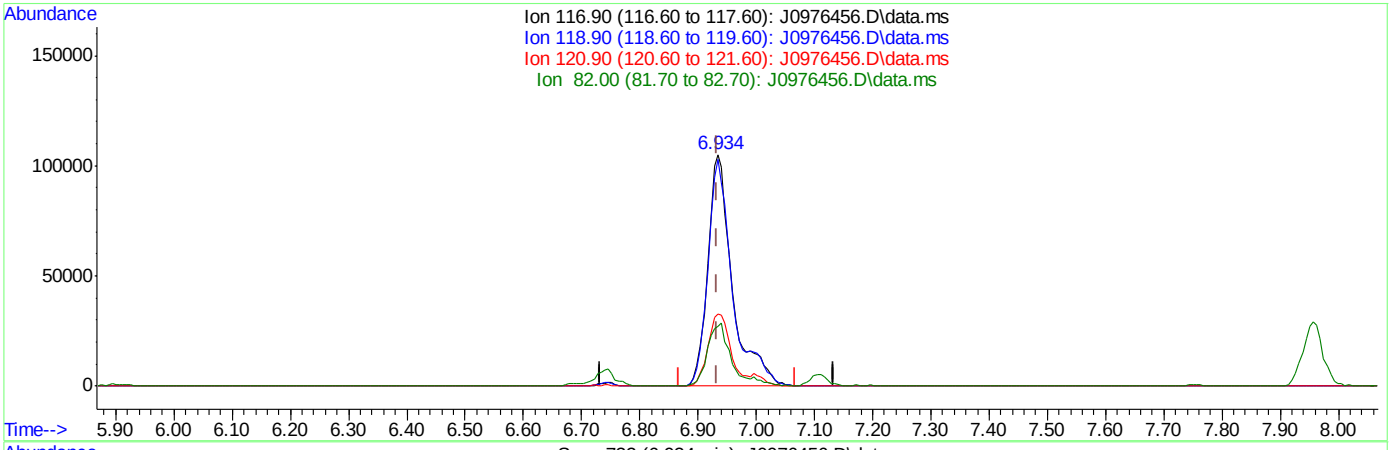


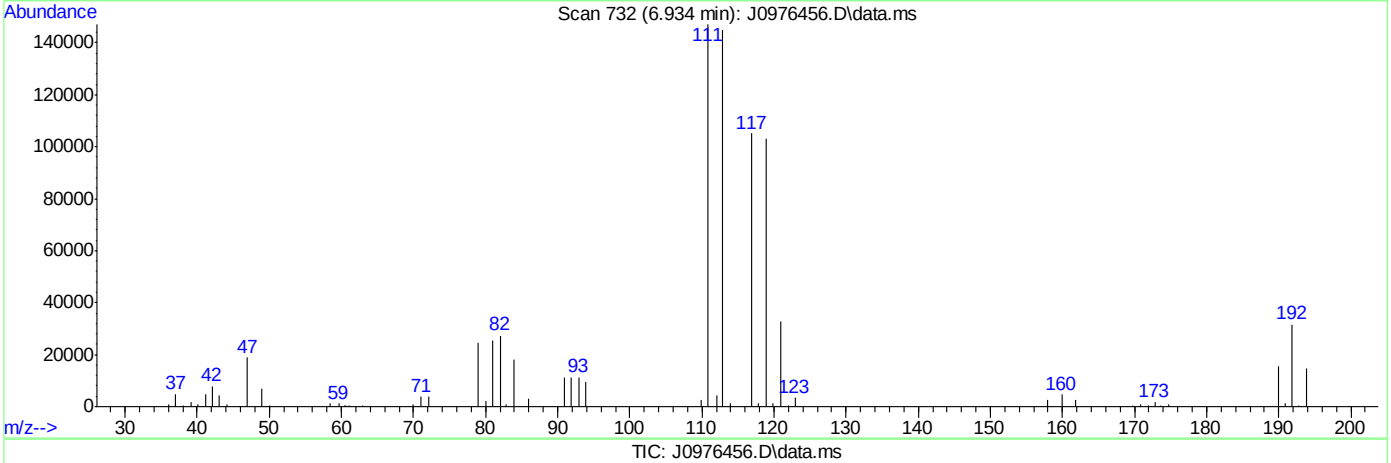
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976456.D
Acq On : 12 May 2016 1:45 pm
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 08:01:21 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976456.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 28.23ug/L

response 312541

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 97.91 |
| 120.90 | 31.20 | 30.99 |
| 82.00 | 25.70 | 25.85 |

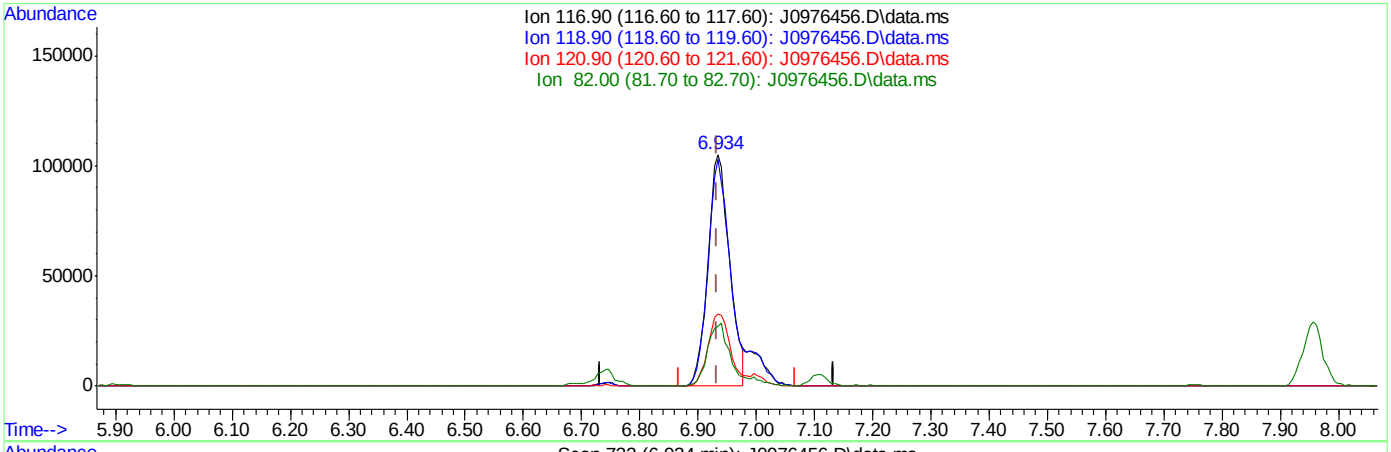


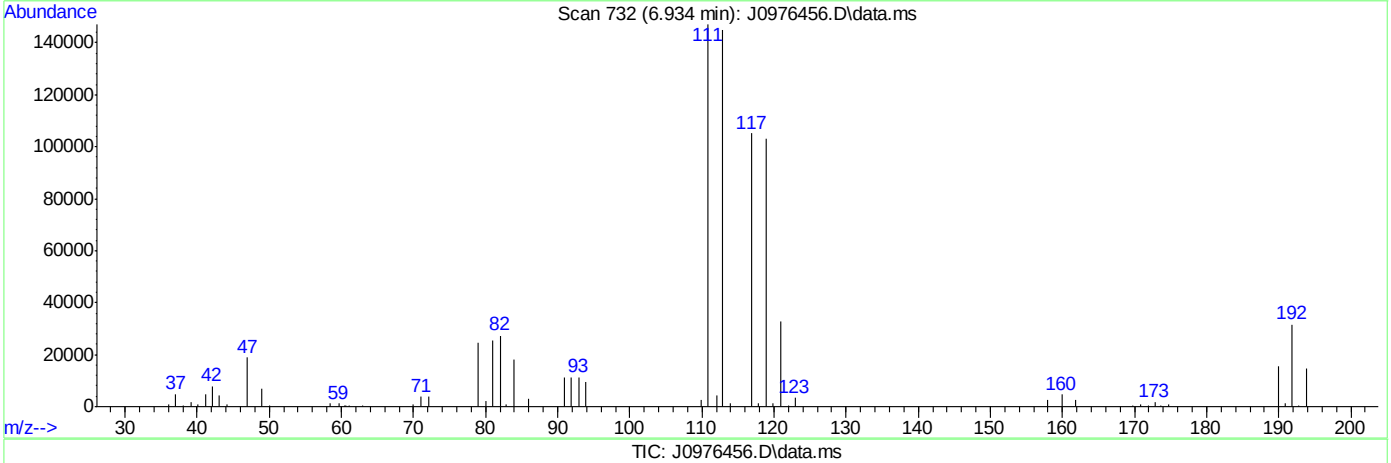
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976456.D
Acq On : 12 May 2016 1:45 pm
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 08:01:21 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976456.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 24.79ug/L m

response 274487

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 97.91 |
| 120.90 | 31.20 | 30.99 |
| 82.00 | 25.70 | 25.85 |

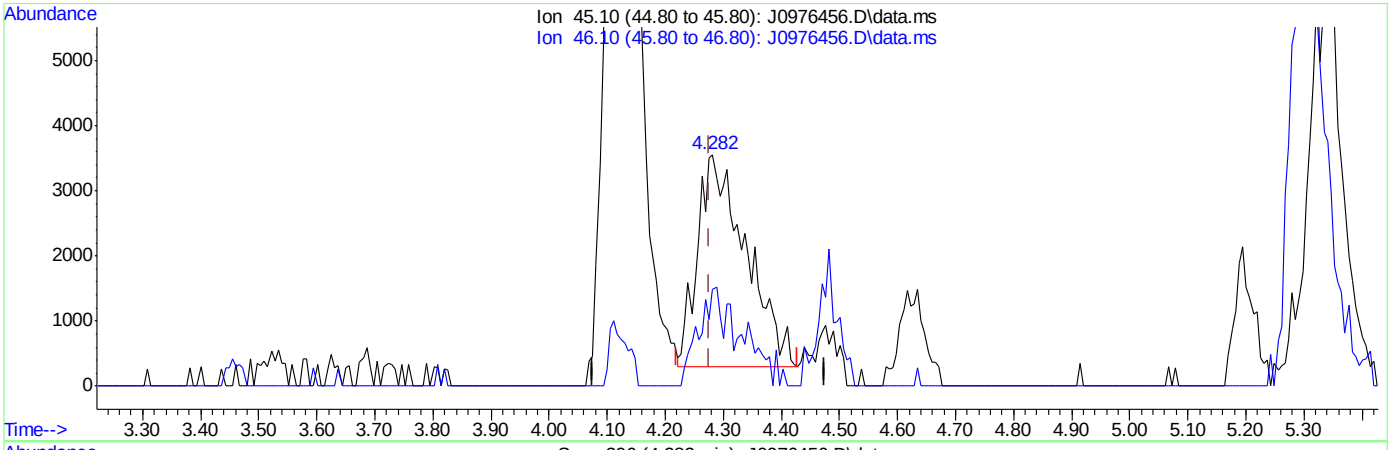


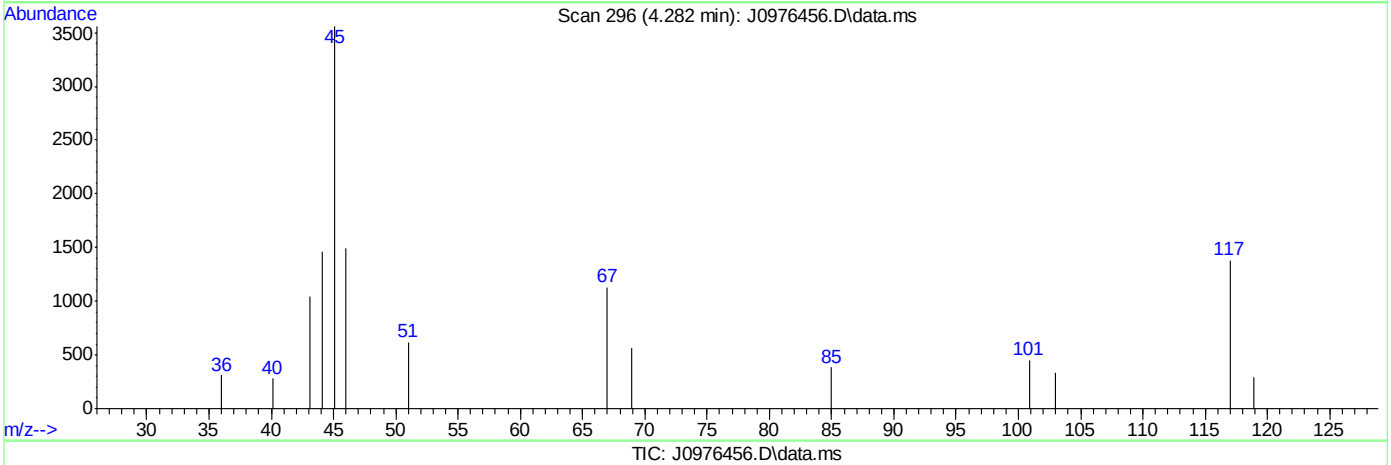
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976456.D
Acq On : 12 May 2016 1:45 pm
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 08:01:21 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976456.D\data.ms

(107) Ethanol

4.282min (+0.006) 428.93ug/L

response 18781

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 45.83 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

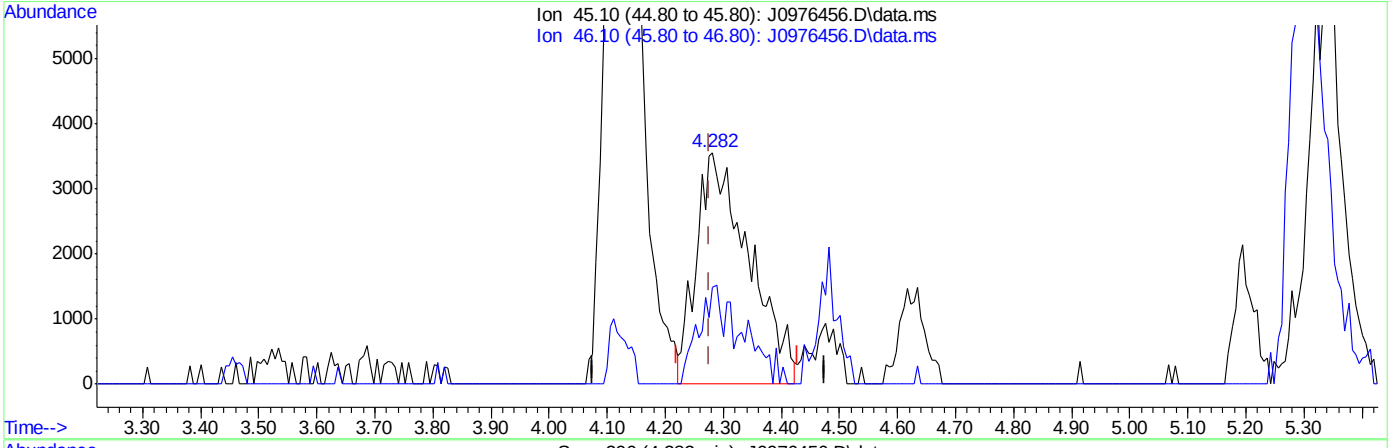


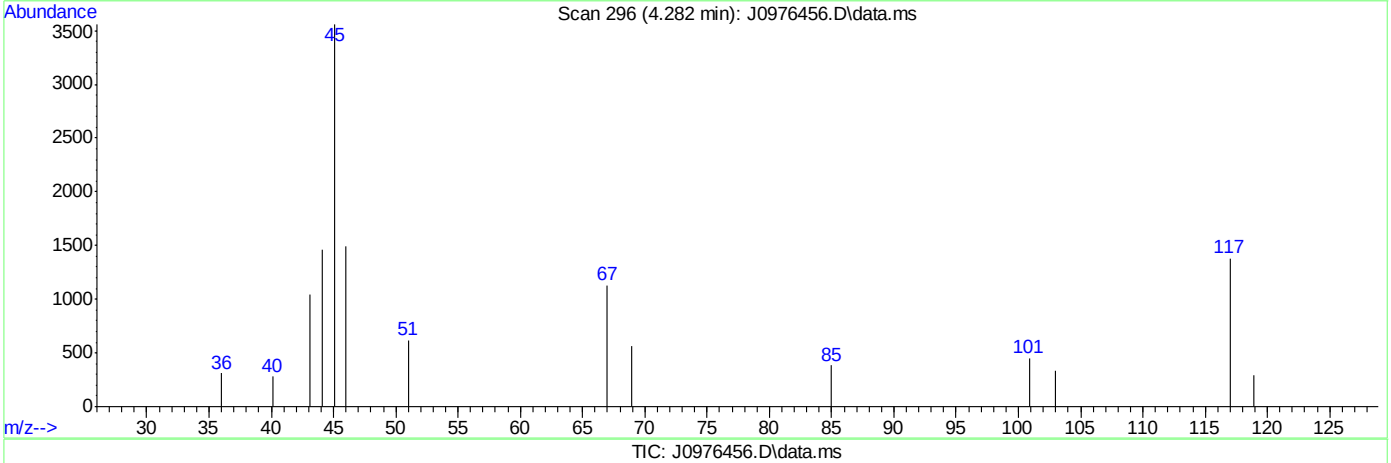
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976456.D
Acq On : 12 May 2016 1:45 pm
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 08:01:21 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976456.D\data.ms

(107) Ethanol

4.282min (+0.006) 511.45ug/L m

response 22394

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 41.96 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115588.D
Acq On : 12 May 2016 3:50 pm
Operator : ericp
Sample : BS MA Inst : MSVOA5
Misc : ms33850,vc4595,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 13 07:25:54 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 6.884 | 96 | 974696 | 50.00 | ug/Kg | 0.00 |
| 54) Chlorobenzene-d5 | 10.004 | 117 | 668688 | 50.00 | ug/Kg | 0.00 |
| 76) 1,4-Dichlorobenzene-d4 | 12.371 | 152 | 351771 | 50.00 | ug/Kg | 0.00 |
| 103) Tert Butyl Alcohol-d10 | 4.523 | 65 | 87288 | 250.00 | ug/Kg | 0.00 |
| System Monitoring Compounds | | | | | | |
| 35) Dibromofluoromethane | 6.056 | 113 | 280163 | 49.15 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 98.30% | | | |
| 44) 1,2-Dichloroethane-d4 | 6.616 | 65 | 302408 | 46.75 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 72 - 135 | | Recovery = 93.50% | | | |
| 55) Toluene-d8 | 8.453 | 98 | 966199 | 49.77 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 126 | | Recovery = 99.54% | | | |
| 77) 4-Bromofluorobenzene | 11.227 | 174 | 235462 | 51.45 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 71 - 133 | | Recovery = 102.90% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.224 | 85 | 575492 | 52.32 | ug/Kg | 95 |
| 3) Chloromethane | 2.412 | 50 | 574918 | 55.47 | ug/Kg | 99 |
| 4) Vinyl Chloride | 2.528 | 62 | 470997 | 54.28 | ug/Kg | 97 |
| 5) Bromomethane | 2.874 | 94 | 188256 | 51.44 | ug/Kg | 92 |
| 6) Chloroethane | 3.014 | 64 | 144013 | 46.62 | ug/Kg | 90 |
| 7) Trichlorofluoromethane | 3.167 | 101 | 549473 | 49.40 | ug/Kg | 98 |
| 8) Ethyl Ether | 3.440 | 59 | 210560 | 48.04 | ug/Kg | 94 |
| 9) 1,2-Dichlorotrifluoroe... | 3.665 | 67 | 372700 | 55.11 | ug/Kg | 89 |
| 10) 1,1-Dichloroethene | 3.665 | 61 | 514934 | 52.23 | ug/Kg | 95 |
| 11) Freon 113 | 3.720 | 101 | 311543 | 50.51 | ug/Kg | 95 |
| 12) Carbon Disulfide | 3.708 | 76 | 974105 | 51.10 | ug/Kg | 93 |
| 13) Iodomethane | 3.824 | 142 | 552627 | 49.61 | ug/Kg | 89 |
| 14) Allyl chloride | 4.146 | 41 | 394090 | 45.36 | ug/Kg | 83 |
| 15) Methylene Chloride | 4.255 | 49 | 397963 | 53.96 | ug/Kg | 98 |
| 16) Acetone | 4.310 | 43 | 277959 | 214.62 | ug/Kg | 91 |
| 17) Methyl acetate | 4.414 | 43 | 601118 | 249.97 | ug/Kg | 96 |
| 18) trans-1,2-Dichloroethene | 4.420 | 61 | 469405 | 57.66 | ug/Kg | 98 |
| 19) Hexane | 4.474 | 56 | 223791 | 50.59 | ug/Kg | 87 |
| 20) Methyl Tert Butyl Ether | 4.511 | 73 | 787304 | 49.02 | ug/Kg | 94 |
| 21) Acetonitrile | 4.791 | 41 | 164658 | 452.52 | ug/Kg | 92 |
| 22) Di-isopropyl ether | 4.882 | 45 | 807281 | 49.88 | ug/Kg | 95 |
| 23) Chloroprene | 5.016 | 53 | 527996 | 45.44 | ug/Kg | 91 |
| 24) 1,1-Dichloroethane | 5.046 | 63 | 575674 | 53.60 | ug/Kg | 99 |
| 25) Acrylonitrile | 5.101 | 52 | 283758 | 242.00 | ug/Kg | 91 |
| 26) ETBE | 5.253 | 59 | 830516 | 49.10 | ug/Kg | 96 |
| 27) Vinyl acetate | 5.271 | 43 | 1911037 | 257.72 | ug/Kg | 96 |
| 28) cis-1,2-Dichloroethene | 5.594 | 96 | 369593 | 48.81 | ug/Kg | 97 |
| 29) 2,2-Dichloropropane | 5.703 | 77 | 407576 | 54.19 | ug/Kg | 96 |
| 30) Bromochloromethane | 5.807 | 128 | 157127 | 46.68 | ug/Kg | 90 |
| 31) Cyclohexane | 5.807 | 84 | 488562 | 48.03 | ug/Kg | 96 |
| 32) Chloroform | 5.868 | 83 | 623344 | 51.97 | ug/Kg | 96 |
| 33) Ethyl acetate | 5.965 | 43 | 757835 | 253.36 | ug/Kg | 99 |
| 34) Tetrahydrofuran | 6.044 | 42 | 47050 | 54.96 | ug/Kg | 94 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115588.D
Acq On : 12 May 2016 3:50 pm
Operator : ericp
Sample : BS MA Inst : MSVOA5
Misc : ms33850,vc4595,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 13 07:25:54 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 36) Carbon Tetrachloride | 6.020 | 117 | 603348 | 50.81 | ug/Kg | 98 |
| 37) 1,1,1-Trichloroethane | 6.093 | 97 | 547740 | 49.15 | ug/Kg | 94 |
| 38) 2-Butanone | 6.184 | 43 | 372994 | 215.68 | ug/Kg | 94 |
| 39) 1,1-Dichloropropene | 6.214 | 75 | 455617 | 51.63 | ug/Kg | 91 |
| 40) Propionitrile | 6.500 | 54 | 249371 | 484.86 | ug/Kg | 90 |
| 41) Methacrylonitrile | 6.519 | 41 | 1023569 | 480.49 | ug/Kg | 95 |
| 42) Benzene | 6.470 | 78 | 1195353 | 50.27 | ug/Kg | 96 |
| 43) TAME | 6.561 | 73 | 703741 | 46.69 | ug/Kg | 94 |
| 45) 1,2-Dichloroethane | 6.683 | 62 | 410391 | 49.14 | ug/Kg | 95 |
| 46) Trichloroethene | 7.054 | 95 | 329459 | 50.61 | ug/Kg | 95 |
| 47) Methylcyclohexane | 7.048 | 83 | 539460 | 50.17 | ug/Kg | 98 |
| 48) Dibromomethane | 7.492 | 93 | 183325 | 49.14 | ug/Kg | 84 |
| 49) 1,2-Dichloropropane | 7.589 | 63 | 261755 | 47.66 | ug/Kg | 83 |
| 50) Bromodichloromethane | 7.644 | 83 | 415352 | 50.83 | ug/Kg | 96 |
| 51) Methyl methacrylate | 7.772 | 41 | 149206 | 54.53 | ug/Kg | 90 |
| 52) 2-Chloroethyl vinyl ether | 8.192 | 63 | 525028 | 243.74 | ug/Kg | 96 |
| 53) cis-1,3-Dichloropropene | 8.271 | 75 | 434146 | 56.84 | ug/Kg | 92 |
| 56) Toluene | 8.508 | 91 | 1172405 | 51.83 | ug/Kg | 96 |
| 57) 2-Nitropropane | 8.745 | 41 | 274761 | 238.73 | ug/Kg | 96 |
| 58) 4-Methyl-2-pentanone | 8.867 | 43 | 947342 | 244.44 | ug/Kg | 94 |
| 59) trans-1,3-Dichloropropene | 8.915 | 75 | 316373 | 56.76 | ug/Kg | 93 |
| 60) Tetrachloroethene | 8.891 | 166 | 283310 | 49.76 | ug/Kg | 87 |
| 61) Ethyl methacrylate | 9.043 | 69 | 208223 | 44.25 | ug/Kg | 92 |
| 62) 1,1,2-Trichloroethane | 9.080 | 83 | 180032 | 50.16 | ug/Kg | 94 |
| 63) Dibromochloromethane | 9.262 | 129 | 271715 | 54.69 | ug/Kg | 98 |
| 64) 1,3-Dichloropropane | 9.360 | 76 | 331106 | 50.88 | ug/Kg | 94 |
| 65) 1,2-Dibromoethane | 9.512 | 107 | 200165 | 52.58 | ug/Kg | 97 |
| 66) 2-hexanone | 9.694 | 43 | 511840 | 223.40 | ug/Kg | 94 |
| 67) 1-Chlorohexane | 9.974 | 91 | 363335 | 50.81 | ug/Kg | 95 |
| 68) Ethylbenzene | 10.035 | 91 | 1263535 | 53.28 | ug/Kg | 96 |
| 69) Chlorobenzene | 10.023 | 112 | 697012 | 52.18 | ug/Kg | 96 |
| 70) 1,1,1,2-Tetrachloroethane | 10.084 | 131 | 324796 | 52.74 | ug/Kg | 88 |
| 71) m,p-Xylene | 10.175 | 91 | 1944736 | 112.44 | ug/Kg | 96 |
| 72) o-Xylene | 10.613 | 91 | 1189486 | 53.16 | ug/Kg | 96 |
| 73) Styrene | 10.668 | 104 | 705200 | 53.67 | ug/Kg | 95 |
| 74) Bromoform | 10.716 | 173 | 129511 | 53.52 | ug/Kg | 94 |
| 75) Isopropylbenzene | 10.923 | 105 | 1426437 | 54.59 | ug/Kg | 98 |
| 78) cis-1,4-Dichloro-2-butene | 11.282 | 53 | 50350 | 43.46 | ug/Kg | 76 |
| 79) n-Propylbenzene | 11.343 | 91 | 1519552 | 48.64 | ug/Kg | 99 |
| 80) Bromobenzene | 11.343 | 156 | 279644 | 50.05 | ug/Kg | 100 |
| 81) 1,1,2,2-Tetrachloroethane | 11.422 | 83 | 292284 | 46.30 | ug/Kg | 99 |
| 82) 1,3,5-Trimethylbenzene | 11.531 | 105 | 1166764 | 46.90 | ug/Kg | 96 |
| 83) 2-Chlorotoluene | 11.519 | 91 | 1109142 | 52.43 | ug/Kg | 98 |
| 84) trans-1,4-Dichloro-2-B... | 11.604 | 53 | 50708 | 50.05 | ug/Kg# | 77 |
| 85) 1,2,3-Trichloropropane | 11.574 | 110 | 78985 | 47.61 | ug/Kg | 95 |
| 86) Cyclohexanone | 11.629 | 55 | 39205 | 225.46 | ug/Kg | 95 |
| 87) 4-Chlorotoluene | 11.690 | 91 | 928987 | 53.50 | ug/Kg | 100 |
| 88) tert-Butylbenzene | 11.866 | 91 | 784648 | 45.84 | ug/Kg | 92 |
| 89) 1,2,4-Trimethylbenzene | 11.939 | 105 | 1144624 | 46.56 | ug/Kg | 96 |
| 90) Pentachloroethane | 11.909 | 167 | 194125 | 51.28 | ug/Kg | 91 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115588.D
Acq On : 12 May 2016 3:50 pm
Operator : ericp
Sample : BS MA Inst : MSVOA5
Misc : ms33850,vc4595,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 13 07:25:54 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

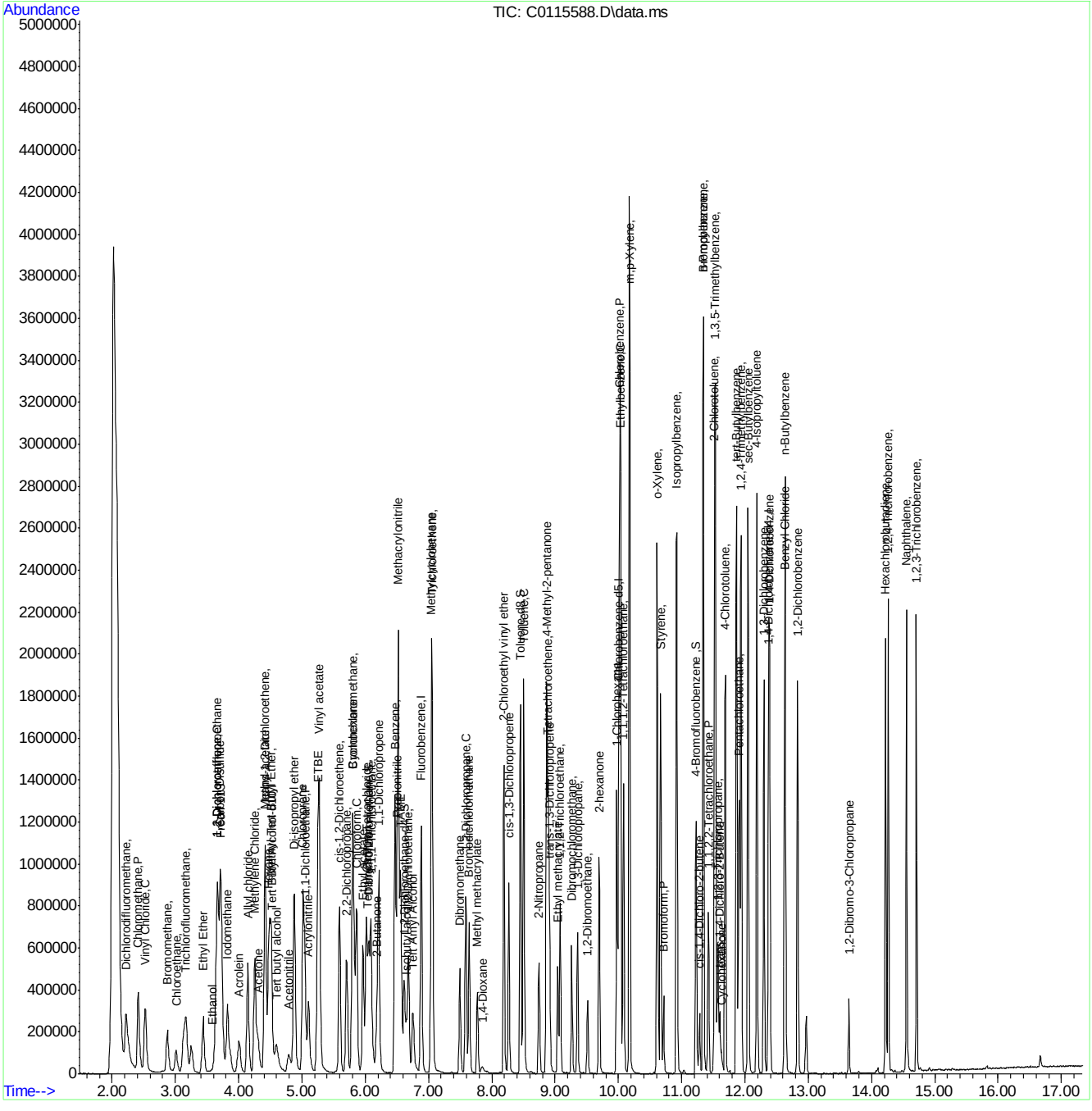
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) sec-Butylbenzene | 12.049 | 105 | 1517651 | 49.75 | ug/Kg | 100 |
| 92) 4-Isopropyltoluene | 12.188 | 119 | 1247468 | 47.52 | ug/Kg | 99 |
| 93) 1,3-Dichlorobenzene | 12.298 | 146 | 582941 | 52.76 | ug/Kg | 99 |
| 94) 1,4-Dichlorobenzene | 12.389 | 146 | 555593 | 52.16 | ug/Kg | 98 |
| 95) n-Butylbenzene | 12.626 | 92 | 691833 | 48.73 | ug/Kg | 98 |
| 96) Benzyl Chloride | 12.639 | 126 | 110193 | 51.27 | ug/Kg# | 64 |
| 97) 1,2-Dichlorobenzene | 12.833 | 146 | 600788 | 53.30 | ug/Kg | 98 |
| 98) 1,2-Dibromo-3-Chloropr... | 13.642 | 75 | 69607 | 47.31 | ug/Kg | 92 |
| 99) Hexachlorobutadiene | 14.220 | 225 | 243446 | 48.94 | ug/Kg | 87 |
| 100) 1,2,4-Trichlorobenzene | 14.263 | 180 | 432388 | 53.57 | ug/Kg | 96 |
| 101) Naphthalene | 14.555 | 128 | 1182194 | 56.52 | ug/Kg | 98 |
| 102) 1,2,3-Trichlorobenzene | 14.713 | 180 | 424624 | 51.28 | ug/Kg | 96 |
| 104) Ethanol | 3.580 | 45 | 27884 | 1069.41 | ug/Kg | 91 |
| 105) Acrolein | 4.012 | 56 | 175835 | 321.21 | ug/Kg | 95 |
| 106) Tert butyl alcohol | 4.596 | 59 | 249102 | 561.09 | ug/Kg | 96 |
| 107) Isobutyl alcohol | 6.652 | 42 | 89568 | 1052.56 | ug/Kg | 89 |
| 108) Tert Amyl Alcohol | 6.756 | 59 | 186712 | 560.79 | ug/Kg | 98 |
| 109) 1,4-Dioxane | 7.851 | 88 | 40063 | 1090.09 | ug/Kg | 93 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115588.D
Acq On : 12 May 2016 3:50 pm
Operator : ericp
Sample : BS MA Inst : MSVOA5
Misc : ms33850,vc4595,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 13 07:25:54 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration










SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/16/16 11:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976469.D
Acq On : 13 May 2016 9:50 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33859,VJ5296,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 10:18:30 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1436742 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 1102663 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.201 | 152 | 633752 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.298 | 65 | 97393 | 250.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 36) Dibromofluoromethane | 6.922 | 113 | 358657 | 49.82 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 99.64% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 414691 | 49.27 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 98.54% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1419675 | 49.99 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 99.98% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 574438 | 49.71 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 99.42% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.688 | 85 | 180129 | 31.85 | ug/L | 95 |
| 3) Chloromethane | 2.889 | 50 | 214458 | 29.13 | ug/L | 98 |
| 4) Vinyl Chloride | 3.035 | 62 | 236081 | 29.23 | ug/L | 95 |
| 5) 1,3-Butadiene | 3.023 | 54 | 3981 | 20.06 | ug/L # | 63 |
| 6) Bromomethane | 3.461 | 94 | 135531 | 26.73 | ug/L | 94 |
| 7) Chloroethane | 3.613 | 64 | 103765 | 27.92 | ug/L | 90 |
| 8) Trichlorofluoromethane | 3.832 | 101 | 318245m | 30.95 | ug/L | |
| 9) Ethyl Ether | 4.124 | 59 | 127691 | 22.31 | ug/L | 96 |
| 10) 1,2-Dichlorotrifluoroe... | 4.355 | 67 | 230318 | 26.26 | ug/L | 96 |
| 11) 1,1-Dichloroethene | 4.392 | 61 | 296845 | 28.00 | ug/L | 98 |
| 12) Freon 113 | 4.465 | 101 | 183133 | 24.99 | ug/L | 98 |
| 13) Carbon Disulfide | 4.471 | 76 | 609846 | 25.65 | ug/L | 100 |
| 14) Iodomethane | 4.586 | 142 | 293119 | 24.89 | ug/L | 99 |
| 15) Allyl chloride | 4.921 | 41 | 219689 | 24.28 | ug/L | 97 |
| 16) Methylene Chloride | 5.043 | 49 | 248597 | 25.65 | ug/L | 100 |
| 17) Acetone | 5.067 | 58 | 52712 | 119.42 | ug/L # | 77 |
| 18) Methyl acetate | 5.189 | 74 | 97471 | 117.38 | ug/L | 95 |
| 19) trans-1,2-Dichloroethene | 5.225 | 61 | 276244 | 28.24 | ug/L | 98 |
| 20) Hexane | 5.298 | 56 | 161389 | 23.68 | ug/L | 93 |
| 21) Methyl Tert Butyl Ether | 5.329 | 73 | 459228 | 21.80 | ug/L | 88 |
| 22) Acetonitrile | 5.590 | 40 | 61067 | 226.63 | ug/L | 97 |
| 23) Di-isopropyl ether | 5.712 | 45 | 512575 | 21.96 | ug/L | 98 |
| 24) Chloroprene | 5.870 | 53 | 244835 | 25.92 | ug/L | 95 |
| 25) 1,1-Dichloroethane | 5.894 | 63 | 345616 | 26.12 | ug/L | 96 |
| 26) Acrylonitrile | 5.919 | 53 | 416323 | 238.04 | ug/L | 97 |
| 27) ETBE | 6.113 | 59 | 545829 | 22.84 | ug/L | 97 |
| 28) Vinyl acetate | 6.101 | 43 | 2406538 | 224.03 | ug/L | 100 |
| 29) cis-1,2-Dichloroethene | 6.472 | 96 | 204675 | 24.29 | ug/L | 97 |
| 30) 2,2-Dichloropropane | 6.606 | 77 | 293239 | 26.59 | ug/L | 99 |
| 31) Bromochloromethane | 6.685 | 128 | 86357 | 21.78 | ug/L | 97 |
| 32) Cyclohexane | 6.734 | 56 | 328928 | 26.60 | ug/L | 99 |
| 33) Chloroform | 6.734 | 83 | 347956 | 24.00 | ug/L | 98 |
| 34) Ethyl acetate | 6.801 | 43 | 945944 | 237.29 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976469.D
Acq On : 13 May 2016 9:50 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33859,VJ5296,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 10:18:30 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 35) Tetrahydrofuran | 6.916 | 42 | 29404 | 24.27 | ug/L | 99 |
| 37) Carbon Tetrachloride | 6.935 | 117 | 288608m | 25.73 | ug/L | |
| 38) 1,1,1-Trichloroethane | 6.989 | 97 | 308674 | 23.88 | ug/L | 100 |
| 39) 2-Butanone | 7.020 | 43 | 221229 | 116.98 | ug/L | 98 |
| 40) 1,1-Dichloropropene | 7.105 | 75 | 255908 | 25.42 | ug/L | 98 |
| 41) tert-Butyl Formate | 7.184 | 59 | 1086055 | 227.62 | ug/L | 99 |
| 42) Propionitrile | 7.330 | 54 | 152007 | 237.55 | ug/L | 83 |
| 43) Methacrylonitrile | 7.354 | 41 | 653572 | 245.13 | ug/L | 98 |
| 44) Benzene | 7.354 | 78 | 776635 | 24.08 | ug/L | 99 |
| 45) TAME | 7.427 | 73 | 480053 | 21.75 | ug/L | 97 |
| 47) 1,2-Dichloroethane | 7.543 | 62 | 238712 | 22.97 | ug/L | 96 |
| 48) Trichloroethene | 7.932 | 95 | 204775 | 25.33 | ug/L | 99 |
| 49) Methylcyclohexane | 7.951 | 83 | 374317 | 26.93 | ug/L | 99 |
| 50) Dibromomethane | 8.358 | 93 | 102919 | 22.82 | ug/L | 96 |
| 51) 1,2-Dichloropropane | 8.443 | 63 | 178810 | 22.72 | ug/L | 97 |
| 52) Bromodichloromethane | 8.492 | 83 | 238854 | 22.91 | ug/L | 100 |
| 53) Methyl methacrylate | 8.589 | 41 | 96230 | 24.59 | ug/L | 96 |
| 55) cis-1,3-Dichloropropene | 9.106 | 75 | 280810 | 23.33 | ug/L | 98 |
| 58) Toluene | 9.350 | 91 | 822269 | 24.78 | ug/L | 100 |
| 59) 2-Nitropropane | 9.557 | 41 | 136971 | 112.80 | ug/L | 98 |
| 60) 4-Methyl-2-pentanone | 9.672 | 43 | 533128 | 108.46 | ug/L | 99 |
| 61) trans-1,3-Dichloropropene | 9.733 | 75 | 261066 | 25.88 | ug/L | 98 |
| 62) Tetrachloroethene | 9.751 | 166 | 222063 | 26.90 | ug/L | 96 |
| 63) Ethyl methacrylate | 9.836 | 69 | 151259 | 20.41 | ug/L | 96 |
| 64) 1,1,2-Trichloroethane | 9.903 | 83 | 126928 | 23.38 | ug/L | 98 |
| 65) Dibromochloromethane | 10.098 | 129 | 169646 | 23.43 | ug/L | 98 |
| 66) 1,3-Dichloropropane | 10.183 | 76 | 245785 | 22.27 | ug/L | 98 |
| 67) 1,2-Dibromoethane | 10.360 | 107 | 140180 | 22.58 | ug/L | 94 |
| 68) 2-hexanone | 10.487 | 43 | 370252 | 112.41 | ug/L | 99 |
| 69) 1-Chlorohexane | 10.792 | 91 | 267559 | 27.29 | ug/L | 97 |
| 70) Ethylbenzene | 10.859 | 91 | 968335 | 24.62 | ug/L | 96 |
| 71) Chlorobenzene | 10.865 | 112 | 551783 | 24.32 | ug/L | 99 |
| 72) 1,1,1,2-Tetrachloroethane | 10.913 | 131 | 186965 | 24.98 | ug/L | 93 |
| 73) m,p-Xylene | 10.998 | 91 | 1492722 | 49.96 | ug/L | 96 |
| 74) o-Xylene | 11.436 | 91 | 745982 | 25.20 | ug/L | 100 |
| 75) Styrene | 11.485 | 104 | 567494 | 24.85 | ug/L | 99 |
| 76) Bromoform | 11.546 | 173 | 108890 | 23.35 | ug/L | 98 |
| 77) Isopropylbenzene | 11.741 | 105 | 935478 | 25.64 | ug/L | 96 |
| 80) cis-1,4-Dichloro-2-butene | 12.087 | 53 | 42397 | 22.02 | ug/L | 92 |
| 81) n-Propylbenzene | 12.160 | 91 | 1153269 | 25.00 | ug/L | 97 |
| 82) Bromobenzene | 12.185 | 156 | 240906 | 23.18 | ug/L | 100 |
| 83) 1,1,2,2-Tetrachloroethane | 12.221 | 83 | 186665 | 22.46 | ug/L | 97 |
| 84) 1,3,5-Trimethylbenzene | 12.343 | 105 | 818245 | 23.60 | ug/L | 98 |
| 85) 2-Chlorotoluene | 12.349 | 91 | 782855 | 23.93 | ug/L | 100 |
| 86) trans-1,4-Dichloro-2-B... | 12.398 | 53 | 41580 | 22.69 | ug/L | 99 |
| 87) 1,2,3-Trichloropropane | 12.379 | 110 | 49387 | 22.50 | ug/L | 93 |
| 88) Cyclohexanone | 12.446 | 55 | 137067 | 698.60 | ug/L | 96 |
| 89) 4-Chlorotoluene | 12.519 | 91 | 721518 | 23.94 | ug/L | 99 |
| 90) a-Methyl Styrene | 12.751 | 118 | 8024 | 0.46 | ug/L # | 1 |
| 91) tert-Butylbenzene | 12.684 | 91 | 470928 | 24.72 | ug/L | 97 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976469.D
Acq On : 13 May 2016 9:50 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33859,VJ5296,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 10:18:30 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 92) 1,2,4-Trimethylbenzene | 12.751 | 105 | 823824 | 23.81 | ug/L | 99 |
| 93) Pentachloroethane | 12.738 | 167 | 139806 | 22.25 | ug/L | 94 |
| 94) sec-Butylbenzene | 12.866 | 105 | 1055849 | 25.44 | ug/L | 99 |
| 95) 4-Isopropyltoluene | 13.000 | 119 | 882025 | 26.61 | ug/L | 99 |
| 96) 1,3-Dichlorobenzene | 13.134 | 146 | 435471 | 23.78 | ug/L | 100 |
| 97) 1,4-Dichlorobenzene | 13.219 | 146 | 437003 | 22.99 | ug/L | 97 |
| 98) n-Butylbenzene | 13.432 | 92 | 485484 | 25.53 | ug/L | 96 |
| 99) Benzyl Chloride | 13.450 | 126 | 65602 | 22.02 | ug/L | 94 |
| 100) 1,2-Dichlorobenzene | 13.645 | 146 | 392198 | 22.98 | ug/L | 97 |
| 101) 1,2-Dibromo-3-Chloropr... | 14.381 | 75 | 24727 | 22.60 | ug/L | 96 |
| 102) Hexachlorobutadiene | 14.928 | 225 | 185959 | 25.52 | ug/L | 97 |
| 103) 1,2,4-Trichlorobenzene | 14.971 | 180 | 265733 | 22.86 | ug/L | 98 |
| 104) Naphthalene | 15.257 | 128 | 411490 | 24.28 | ug/L | 99 |
| 105) 1,2,3-Trichlorobenzene | 15.427 | 180 | 226411 | 23.44 | ug/L | 99 |
| 107) Ethanol | 4.264 | 45 | 24075m | 499.90 | ug/L | |
| 108) acrolein | 4.763 | 56 | 102288 | 111.39 | ug/L | 93 |
| 109) Tert Butyl Alcohol | 5.371 | 59 | 117964 | 240.18 | ug/L | 95 |
| 110) tert Amyl alcohol | 7.573 | 59 | 81273 | 205.92 | ug/L | 97 |
| 111) Isobutyl alcohol | 7.452 | 42 | 72036 | 410.74 | ug/L # | 86 |
| 112) 1,4-Dioxane | 8.668 | 88 | 24427 | 438.82 | ug/L | 93 |
| 113) 3,3-Dimethyl-1-butanol | 10.433 | 57 | 482148 | 1118.32 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.3.3

7

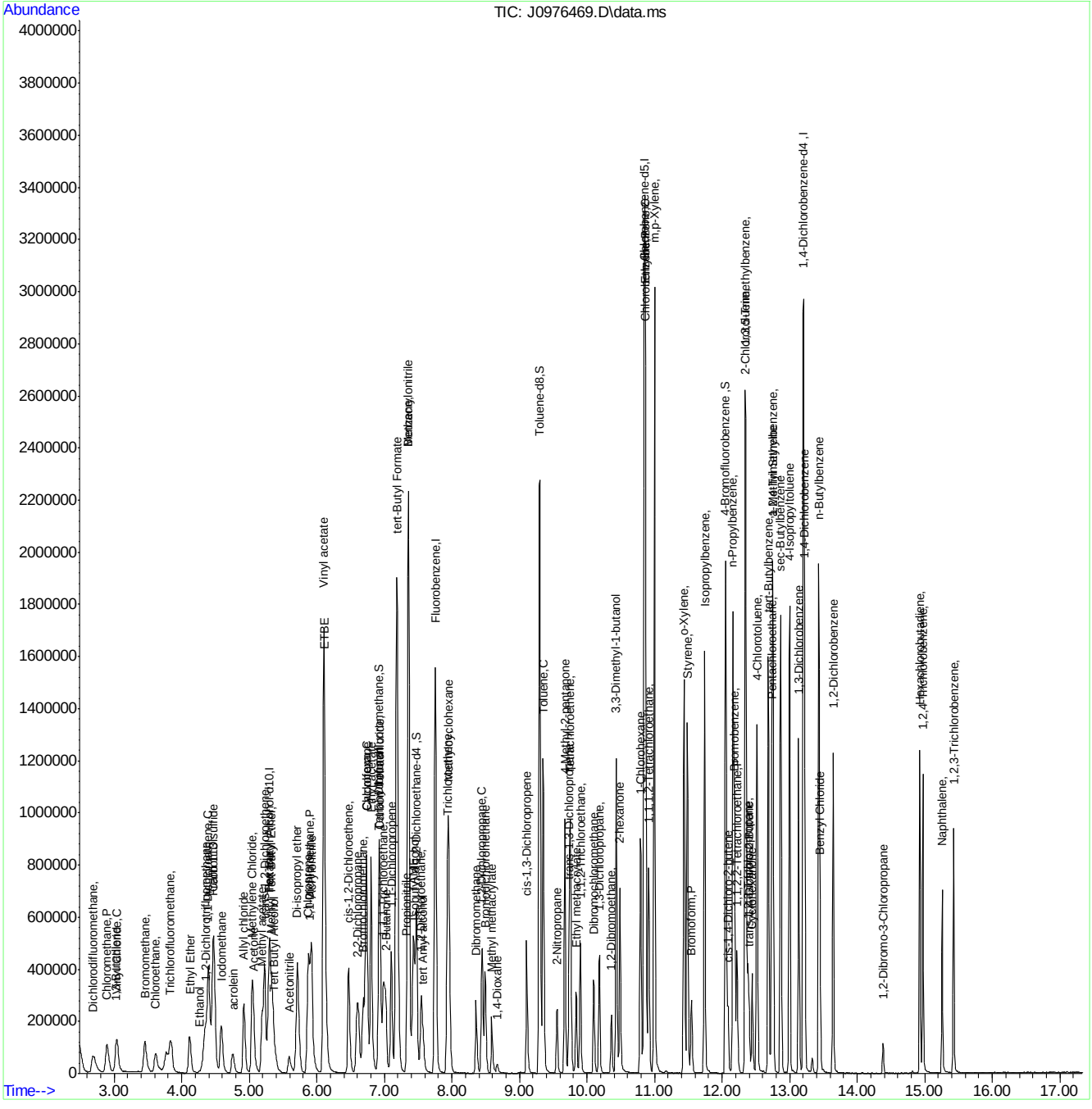


SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976469.D
Acq On : 13 May 2016 9:50 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33859,VJ5296,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 10:18:30 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




MSJ051216a.M Mon May 16 10:01:42 2016 Page: 4





SGS ACCUTEST FA33878

# Manual Integration Approval Summary



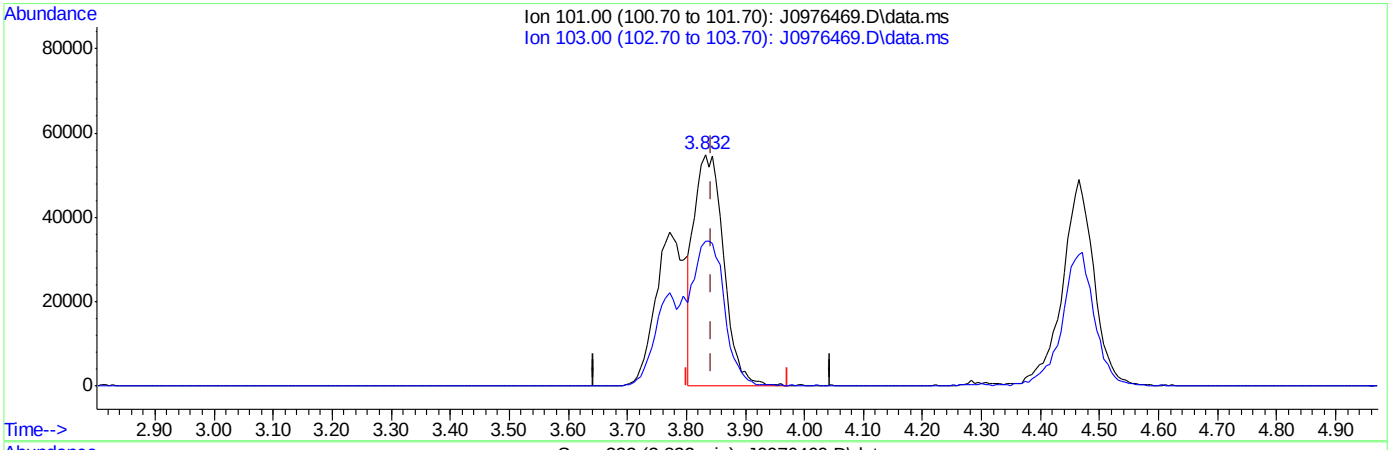
| | | | |
|---|---|---|---|
| **Sample Number:** | VJ5296-BS | **Method:** | SW846 8260C |
| **Lab FileID:** | J0976469.D | **Analyst approved:** | 05/16/16 10:08 Darshna Patel |
| **Injection Time:** | 05/13/16 09:50 | **Supervisor approved:** | 05/16/16 11:04 Juan Garcia |

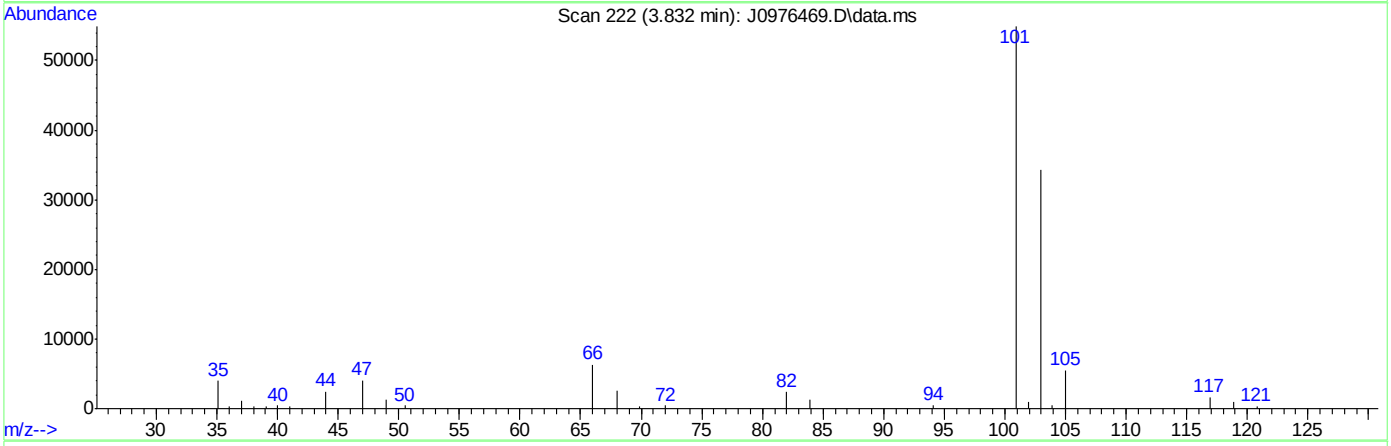
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichlorofluoromethane | 75-69-4 | | 3.83 | Split peak |
| Ethyl Alcohol | 64-17-5 | | 4.26 | Poor instrument integration |
| Carbon Tetrachloride | 56-23-5 | | 6.93 | Overlapping peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976469.D
Acq On : 13 May 2016 9:50 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33839,VJ5296,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 10:16:29 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




TIC: J0976469.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.012) 18.64ug/L

response 191694

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 62.48 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



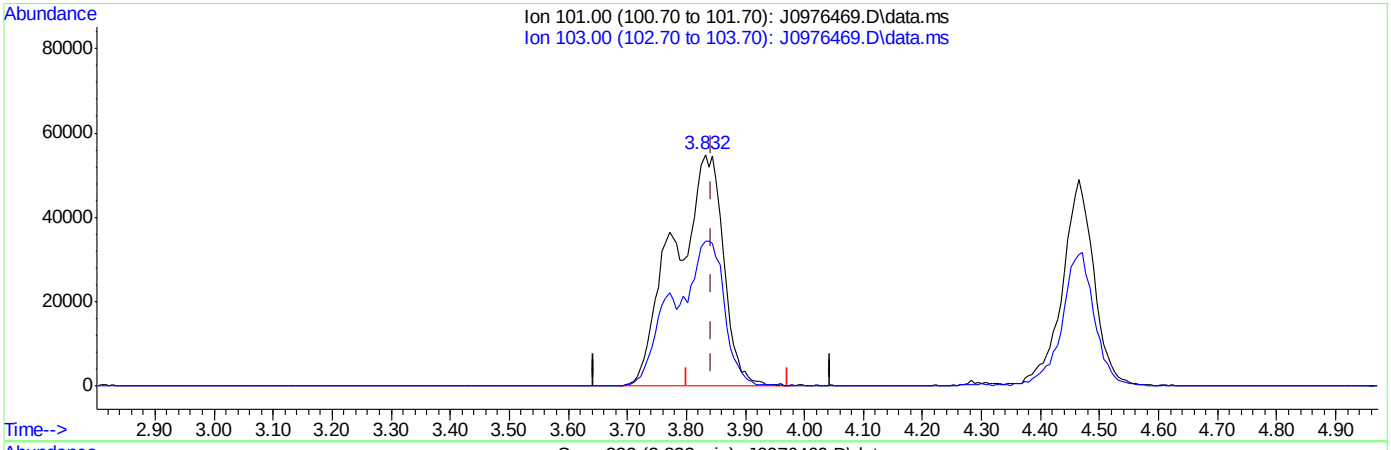
SGS ACCUTEST FA33878

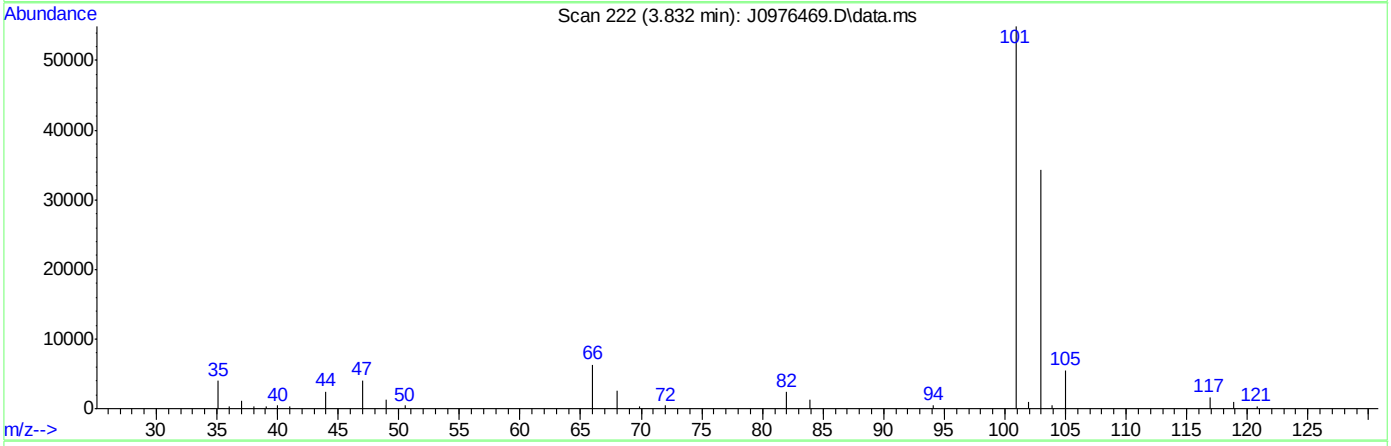
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976469.D
Acq On : 13 May 2016 9:50 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33839,VJ5296,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 10:16:29 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration






TIC: J0976469.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.012) 30.95ug/L m

response 318245

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 62.48 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976469.D
Acq On : 13 May 2016 9:50 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33839,VJ5296,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 10:16:29 2016
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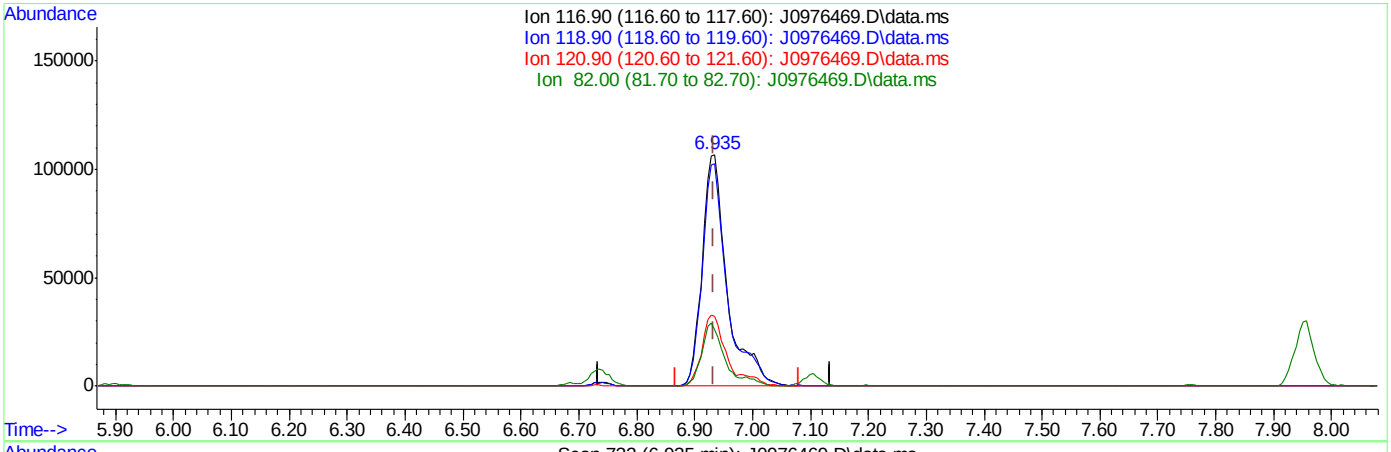
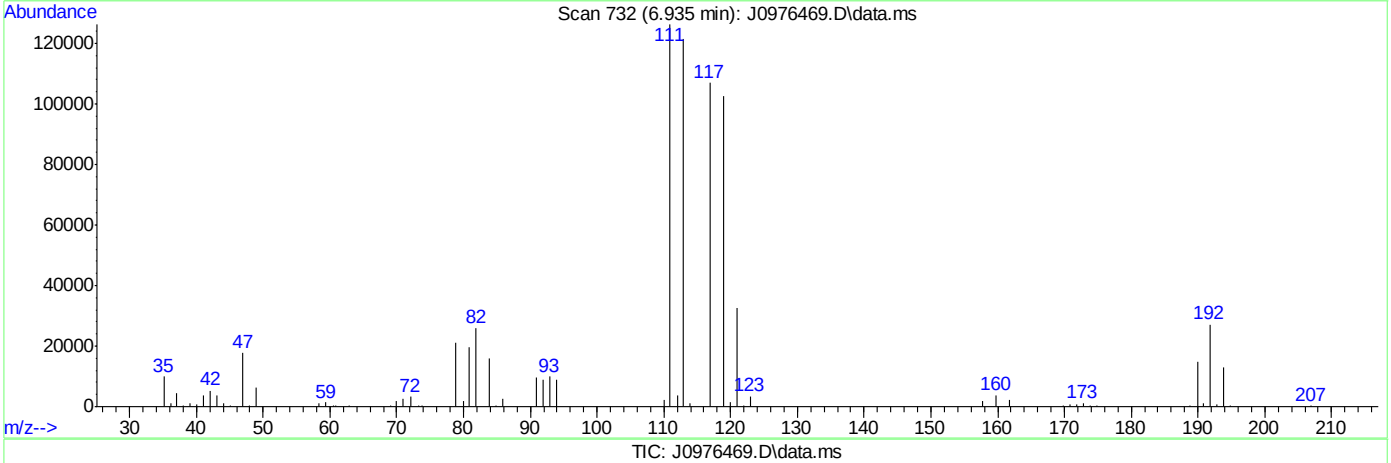
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




TIC: J0976469.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 28.95ug/L

response 324699

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 96.00 |
| 120.90 | 31.20 | 30.35 |
| 82.00 | 25.70 | 24.28 |

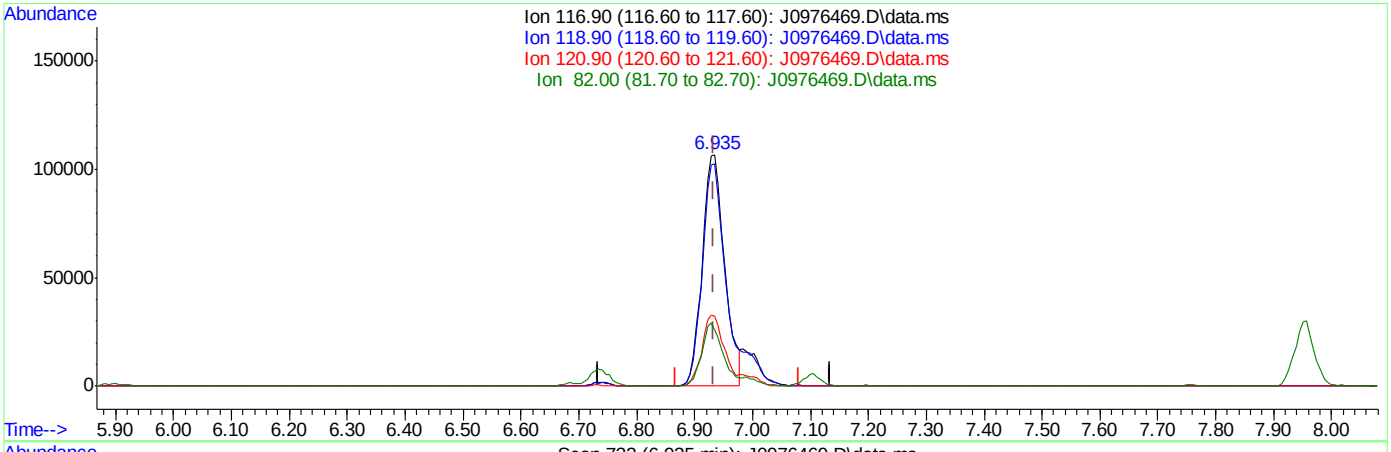


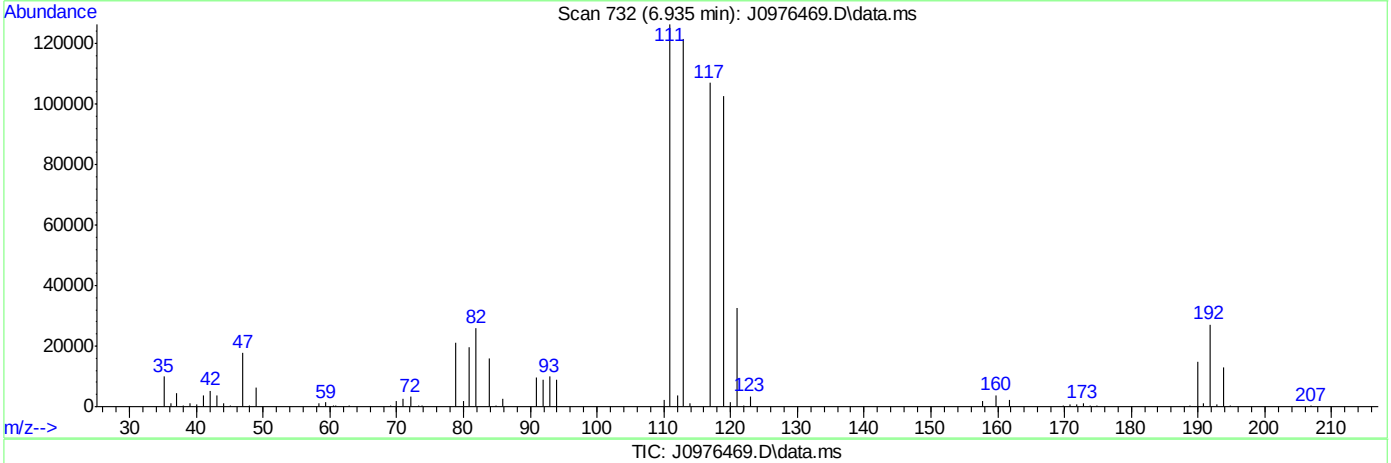
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976469.D
Acq On : 13 May 2016 9:50 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33839,VJ5296,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 10:16:29 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




TIC: J0976469.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 25.73ug/L m

response 288608

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 96.00 |
| 120.90 | 31.20 | 30.35 |
| 82.00 | 25.70 | 24.28 |



SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976469.D
Acq On : 13 May 2016 9:50 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33839,VJ5296,,,,,
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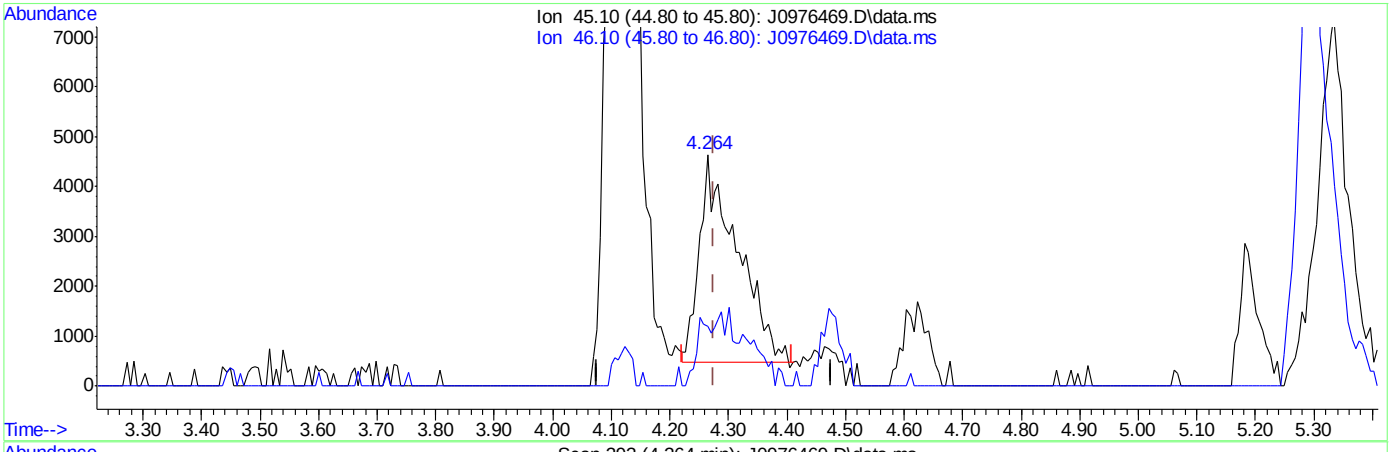
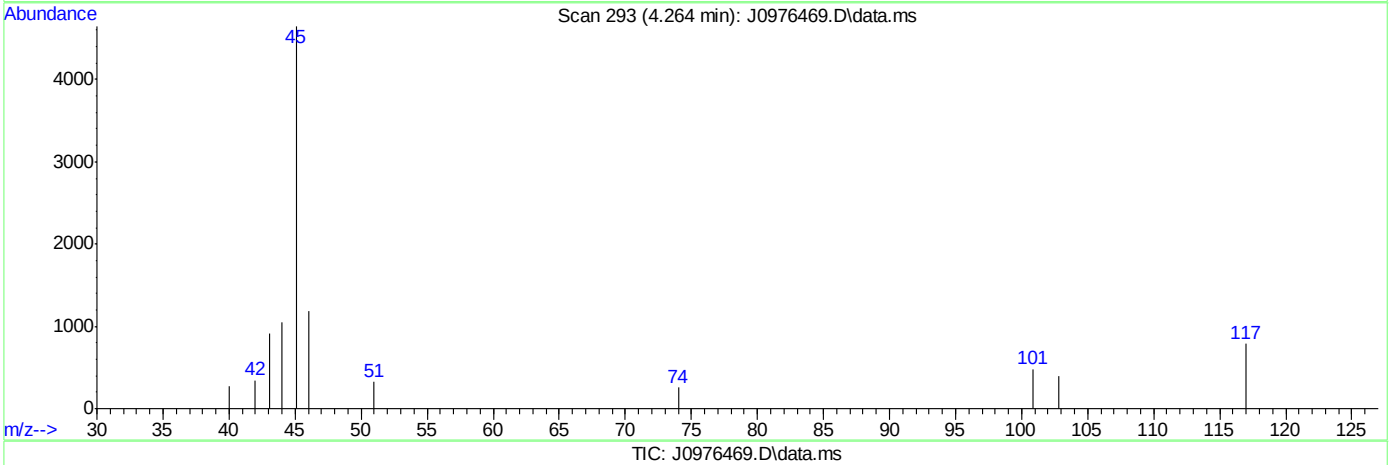
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




TIC: J0976469.D\data.ms

(107) Ethanol

4.264min (-0.012) 389.70ug/L

response 18768

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 28.47 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

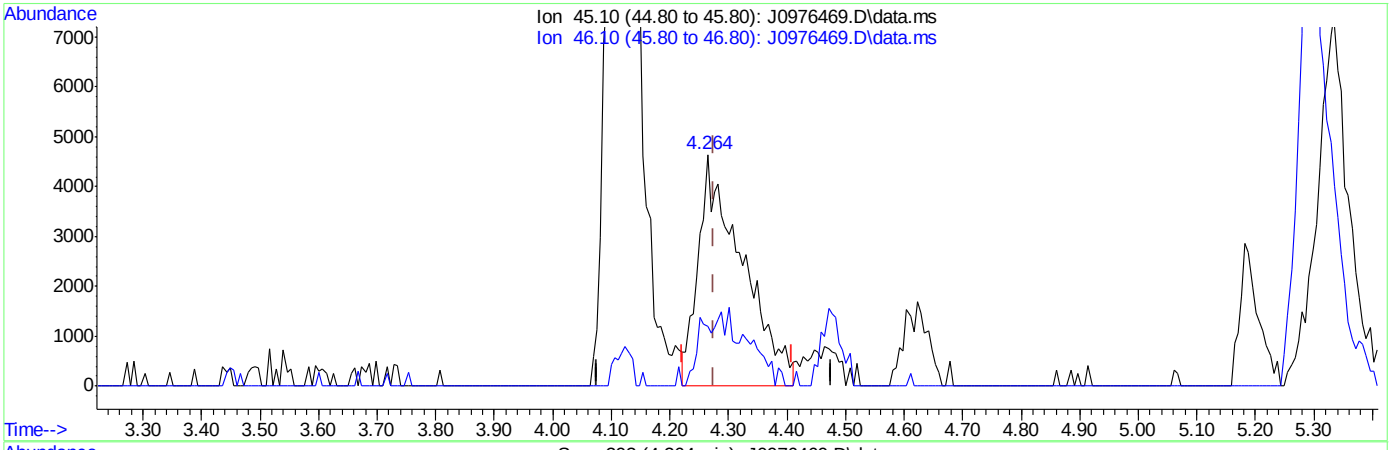


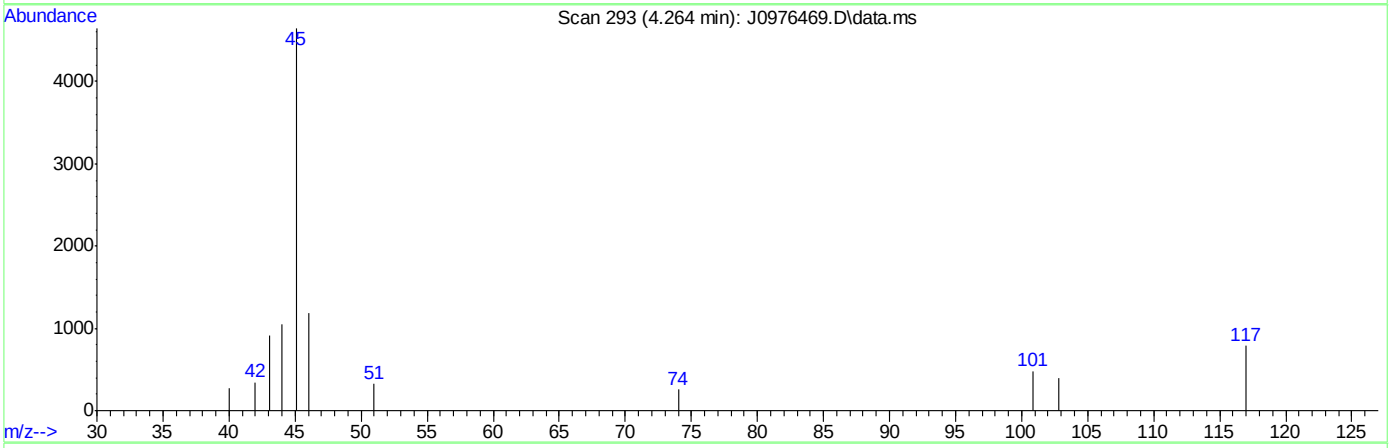
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976469.D
Acq On : 13 May 2016 9:50 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33839,VJ5296,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 13 10:16:29 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




TIC: J0976469.D\data.ms

(107) Ethanol

4.264min (-0.012) 499.90ug/L m

response 24075

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 25.59 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976463.D
Acq On : 12 May 2016 4:49 pm
Operator : darshnap
Sample : fa33878-1ms ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:10:59 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1289451 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 1067048 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.201 | 152 | 595031 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.298 | 65 | 86085 | 250.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 36) Dibromofluoromethane | 6.928 | 113 | 323569 | 50.08 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 100.16% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 383723 | 50.80 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 101.60% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1304780 | 47.48 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 94.96% | | | |
| 79) 4-Bromofluorobenzene | 12.057 | 95 | 542790 | 50.03 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 100.06% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.688 | 85 | 156206 | 30.82 | ug/L | 99 |
| 3) Chloromethane | 2.901 | 50 | 195591 | 29.58 | ug/L | 98 |
| 4) Vinyl Chloride | 3.041 | 62 | 216014 | 29.80 | ug/L | 95 |
| 5) 1,3-Butadiene | 3.035 | 54 | 31852 | Below Cal | # | 84 |
| 6) Bromomethane | 3.455 | 94 | 126941 | 28.01 | ug/L | 98 |
| 7) Chloroethane | 3.613 | 64 | 101551 | 31.19 | ug/L | 97 |
| 8) Trichlorofluoromethane | 3.844 | 101 | 291246m | 31.56 | ug/L | |
| 9) Ethyl Ether | 4.124 | 59 | 121489 | 23.66 | ug/L | 99 |
| 10) 1,2-Dichlorotrifluoroe... | 4.349 | 67 | 216442 | 27.50 | ug/L | 94 |
| 11) 1,1-Dichloroethene | 4.398 | 61 | 274511 | 28.84 | ug/L | 98 |
| 12) Freon 113 | 4.465 | 101 | 174100 | 26.46 | ug/L | 93 |
| 13) Carbon Disulfide | 4.477 | 76 | 500934 | 23.52 | ug/L | 99 |
| 14) Iodomethane | 4.586 | 142 | 268024 | 25.35 | ug/L | 99 |
| 15) Allyl chloride | 4.921 | 41 | 211600 | 25.99 | ug/L | 97 |
| 16) Methylene Chloride | 5.043 | 49 | 213395 | 24.52 | ug/L | 98 |
| 17) Acetone | 5.067 | 58 | 43199 | 109.05 | ug/L # | 83 |
| 18) Methyl acetate | 5.195 | 74 | 81411 | 109.24 | ug/L | 95 |
| 19) trans-1,2-Dichloroethene | 5.231 | 61 | 257622 | 29.34 | ug/L | 96 |
| 20) Hexane | 5.298 | 56 | 158025 | 26.74 | ug/L | 95 |
| 21) Methyl Tert Butyl Ether | 5.335 | 73 | 425148 | 22.49 | ug/L | 87 |
| 22) Acetonitrile | 5.596 | 40 | 58511 | 241.74 | ug/L # | 87 |
| 23) Di-isopropyl ether | 5.718 | 45 | 483749 | 23.09 | ug/L | 98 |
| 24) Chloroprene | 5.870 | 53 | 234373 | 27.55 | ug/L | 99 |
| 25) 1,1-Dichloroethane | 5.900 | 63 | 325755 | 27.44 | ug/L | 95 |
| 26) Acrylonitrile | 5.925 | 53 | 175335 | 111.70 | ug/L | 99 |
| 27) ETBE | 6.113 | 59 | 487374 | 22.73 | ug/L | 99 |
| 28) Vinyl acetate | 6.107 | 43 | 1143908 | 118.65 | ug/L | 98 |
| 29) cis-1,2-Dichloroethene | 6.472 | 96 | 184712 | 24.42 | ug/L | 92 |
| 30) 2,2-Dichloropropane | 6.606 | 77 | 254994 | 25.76 | ug/L | 96 |
| 31) Bromochloromethane | 6.685 | 128 | 79186 | 22.25 | ug/L | 96 |
| 32) Cyclohexane | 6.734 | 56 | 292839 | 26.38 | ug/L | 97 |
| 33) Chloroform | 6.740 | 83 | 322070 | 24.76 | ug/L | 98 |
| 34) Ethyl acetate | 6.807 | 43 | 433371 | 121.13 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976463.D
Acq On : 12 May 2016 4:49 pm
Operator : darshnap
Sample : fa33878-1ms ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:10:59 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) Tetrahydrofuran | 6.916 | 42 | 25560 | 23.51 ug/L | 97 |
| 37) Carbon Tetrachloride | 6.935 | 117 | 258323m | 25.66 ug/L | |
| 38) 1,1,1-Trichloroethane | 6.995 | 97 | 287860 | 24.81 ug/L | 98 |
| 39) 2-Butanone | 7.026 | 43 | 191010 | 112.46 ug/L | 98 |
| 40) 1,1-Dichloropropene | 7.105 | 75 | 231425 | 25.62 ug/L | 96 |
| 41) tert-Butyl Formate | 7.184 | 59 | 170848 | 38.52 ug/L # | 87 |
| 42) Propionitrile | 7.330 | 54 | 146253 | 254.66 ug/L # | 75 |
| 43) Methacrylonitrile | 7.360 | 41 | 619480 | 249.52 ug/L | 99 |
| 44) Benzene | 7.354 | 78 | 751370 | 26.02 ug/L | 99 |
| 45) TAME | 7.433 | 73 | 426690 | 21.54 ug/L | 95 |
| 47) 1,2-Dichloroethane | 7.549 | 62 | 237708 | 25.60 ug/L | 98 |
| 48) Trichloroethene | 7.932 | 95 | 188701 | 26.02 ug/L | 98 |
| 49) Methylcyclohexane | 7.957 | 83 | 342662 | 27.47 ug/L | 95 |
| 50) Dibromomethane | 8.358 | 93 | 94742 | 23.41 ug/L | 96 |
| 51) 1,2-Dichloropropane | 8.449 | 63 | 170527 | 24.17 ug/L | 97 |
| 52) Bromodichloromethane | 8.492 | 83 | 214989 | 22.98 ug/L | 99 |
| 53) Methyl methacrylate | 8.595 | 41 | 87734 | 24.98 ug/L | 98 |
| 55) cis-1,3-Dichloropropene | 9.112 | 75 | 247753 | 22.94 ug/L | 96 |
| 58) Toluene | 9.356 | 91 | 797579 | 24.84 ug/L | 99 |
| 59) 2-Nitropropane | 9.557 | 41 | 128536 | 109.32 ug/L | 96 |
| 60) 4-Methyl-2-pentanone | 9.672 | 43 | 515640 | 108.40 ug/L | 100 |
| 61) trans-1,3-Dichloropropene | 9.739 | 75 | 238177 | 24.40 ug/L | 98 |
| 62) Tetrachloroethene | 9.757 | 166 | 197368 | 24.71 ug/L | 97 |
| 63) Ethyl methacrylate | 9.842 | 69 | 147260 | 20.53 ug/L | 97 |
| 64) 1,1,2-Trichloroethane | 9.903 | 83 | 127793 | 24.35 ug/L | 96 |
| 65) Dibromochloromethane | 10.104 | 129 | 137872 | 19.68 ug/L | 99 |
| 66) 1,3-Dichloropropane | 10.183 | 76 | 233478 | 21.86 ug/L | 97 |
| 67) 1,2-Dibromoethane | 10.360 | 107 | 141505 | 23.55 ug/L | 99 |
| 68) 2-hexanone | 10.487 | 43 | 344261 | 108.01 ug/L | 99 |
| 69) 1-Chlorohexane | 10.798 | 91 | 254776 | 26.85 ug/L | 95 |
| 70) Ethylbenzene | 10.858 | 91 | 2627669 | 78.06 ug/L | 98 |
| 71) Chlorobenzene | 10.865 | 112 | 575407 | 26.27 ug/L | 73 |
| 72) 1,1,1,2-Tetrachloroethane | 10.913 | 131 | 180272 | 24.89 ug/L | 99 |
| 73) m,p-Xylene | 10.998 | 91 | 2651411 | 99.82 ug/L | 99 |
| 74) o-Xylene | 11.436 | 91 | 739835 | 25.83 ug/L | 100 |
| 75) Styrene | 11.485 | 104 | 494170 | 22.36 ug/L | 98 |
| 76) Bromoform | 11.546 | 173 | 83089 | 18.43 ug/L | 98 |
| 77) Isopropylbenzene | 11.741 | 105 | 1811951 | 53.29 ug/L | 99 |
| 80) cis-1,4-Dichloro-2-butene | 12.087 | 53 | 32558 | 18.01 ug/L | 96 |
| 81) n-Propylbenzene | 12.160 | 91 | 1372733 | 32.33 ug/L | 98 |
| 82) Bromobenzene | 12.185 | 156 | 233204 | 23.91 ug/L | 96 |
| 83) 1,1,2,2-Tetrachloroethane | 12.221 | 83 | 186006 | 23.88 ug/L | 97 |
| 84) 1,3,5-Trimethylbenzene | 12.343 | 105 | 770809 | 23.69 ug/L | 98 |
| 85) 2-Chlorotoluene | 12.349 | 91 | 772591 | 25.23 ug/L | 99 |
| 86) trans-1,4-Dichloro-2-B... | 12.398 | 53 | 34753 | 18.97 ug/L # | 87 |
| 87) 1,2,3-Trichloropropane | 12.385 | 110 | 47493 | 23.07 ug/L | 93 |
| 88) Cyclohexanone | 12.446 | 55 | 16610 | 91.71 ug/L | 90 |
| 89) 4-Chlorotoluene | 12.519 | 91 | 698684 | 24.73 ug/L | 100 |
| 90) a-Methyl Styrene | 12.750 | 118 | 6900 | 0.42 ug/L # | 1 |
| 91) tert-Butylbenzene | 12.684 | 91 | 450986 | 25.22 ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976463.D
Acq On : 12 May 2016 4:49 pm
Operator : darshnap
Sample : fa33878-1ms ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:10:59 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 92) | 1,2,4-Trimethylbenzene | 12.750 | 105 | 756669 | 23.27 | ug/L | | 100 |
| 93) | Pentachloroethane | 12.738 | 167 | 147351 | 24.94 | ug/L | | 95 |
| 94) | sec-Butylbenzene | 12.866 | 105 | 1024693 | 26.35 | ug/L | | 99 |
| 95) | 4-Isopropyltoluene | 13.000 | 119 | 836144 | 25.17 | ug/L | | 99 |
| 96) | 1,3-Dichlorobenzene | 13.134 | 146 | 415136 | 24.15 | ug/L | | 98 |
| 97) | 1,4-Dichlorobenzene | 13.219 | 146 | 422021 | 23.67 | ug/L | | 99 |
| 98) | n-Butylbenzene | 13.432 | 92 | 462904 | 25.93 | ug/L | | 100 |
| 99) | Benzyl Chloride | 13.450 | 126 | 59972 | 21.44 | ug/L | # | 92 |
| 100) | 1,2-Dichlorobenzene | 13.645 | 146 | 378029 | 23.61 | ug/L | | 98 |
| 101) | 1,2-Dibromo-3-Chloropr... | 14.381 | 75 | 21736 | 21.16 | ug/L | | 95 |
| 102) | Hexachlorobutadiene | 14.928 | 225 | 167464 | 24.50 | ug/L | | 97 |
| 103) | 1,2,4-Trichlorobenzene | 14.971 | 180 | 243028 | 22.27 | ug/L | | 98 |
| 104) | Naphthalene | 15.257 | 128 | 382813 | 24.06 | ug/L | | 99 |
| 105) | 1,2,3-Trichlorobenzene | 15.427 | 180 | 198647 | 21.90 | ug/L | | 97 |
| 107) | Ethanol | 4.282 | 45 | 26925m | 632.51 | ug/L | | |
| 108) | acrolein | 4.763 | 56 | 78738 | 97.01 | ug/L | | 96 |
| 109) | Tert Butyl Alcohol | 5.371 | 59 | 146863 | 342.93 | ug/L | | 98 |
| 110) | tert Amyl alcohol | 7.573 | 59 | 69596 | 199.33 | ug/L | | 91 |
| 111) | Isobutyl alcohol | 7.452 | 42 | 67582 | 437.43 | ug/L | | 91 |
| 112) | 1,4-Dioxane | 8.674 | 88 | 21348 | 433.77 | ug/L | | 94 |
| 113) | 3,3-Dimethyl-1-butanol | 10.433 | 57 | 408993 | 1072.06 | ug/L | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

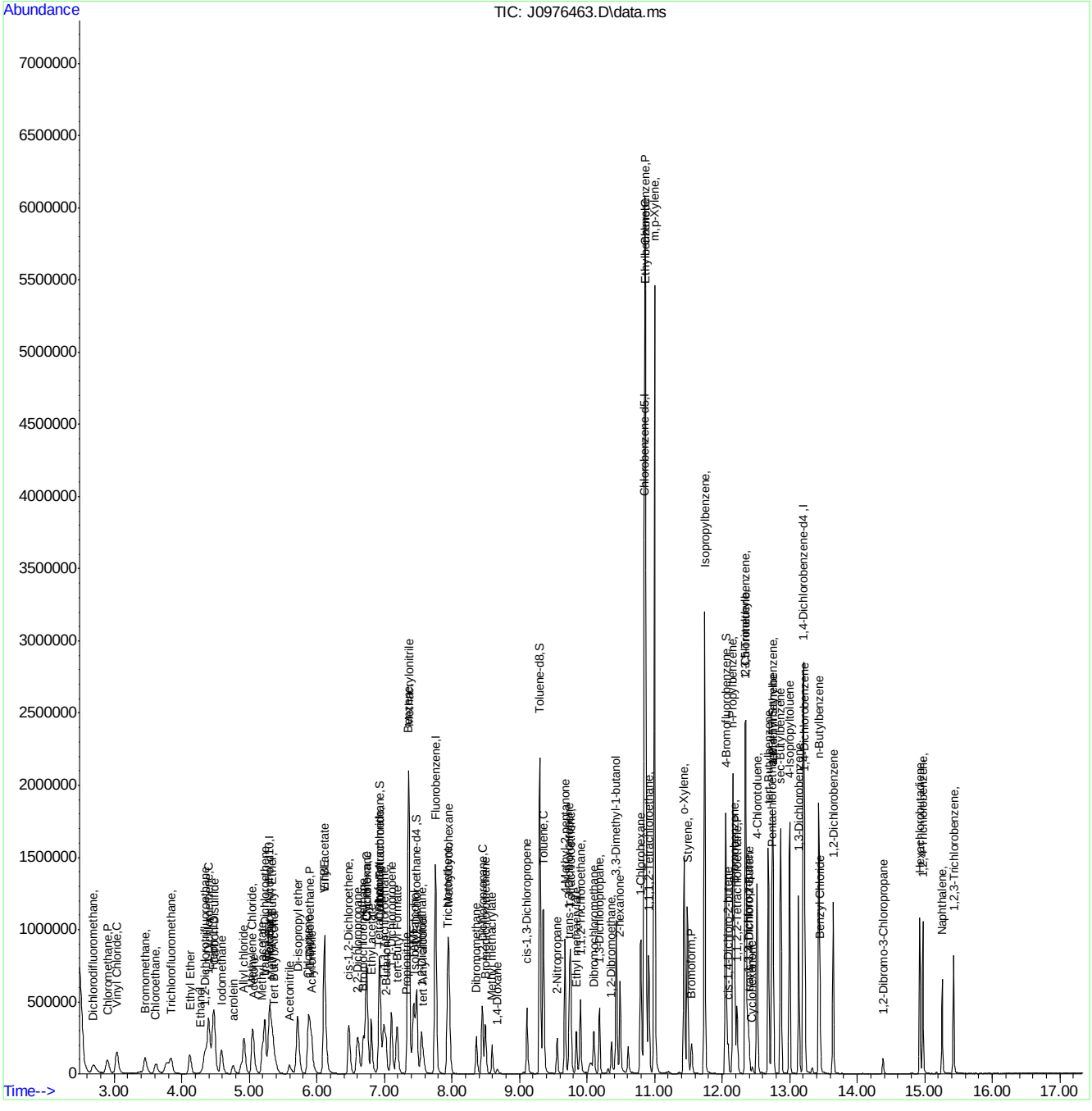
7.4.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976463.D
Acq On : 12 May 2016 4:49 pm
Operator : darshnap
Sample : fa33878-1ms ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:10:59 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration










SGS ACCUTEST FA33878

# Manual Integration Approval Summary



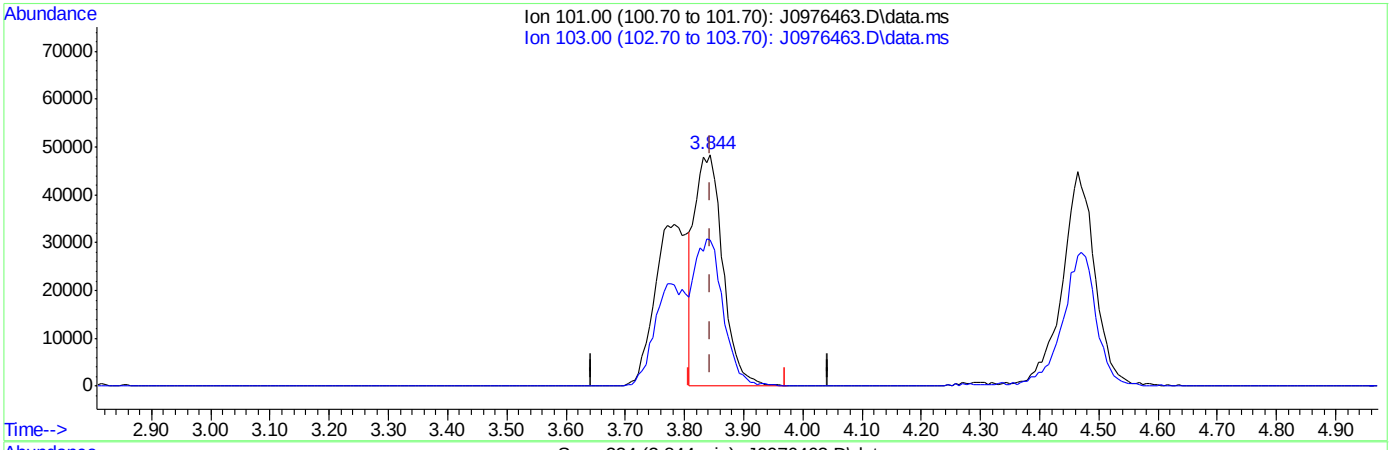
| | | | |
|---|---|---|---|
| **Sample Number:** | FA33878-1MS | **Method:** | SW846 8260C |
| **Lab FileID:** | J0976463.D | **Analyst approved:** | 05/13/16 09:57 Darshna Patel |
| **Injection Time:** | 05/12/16 16:49 | **Supervisor approved:** | 05/13/16 11:32 Melissa Mangual |

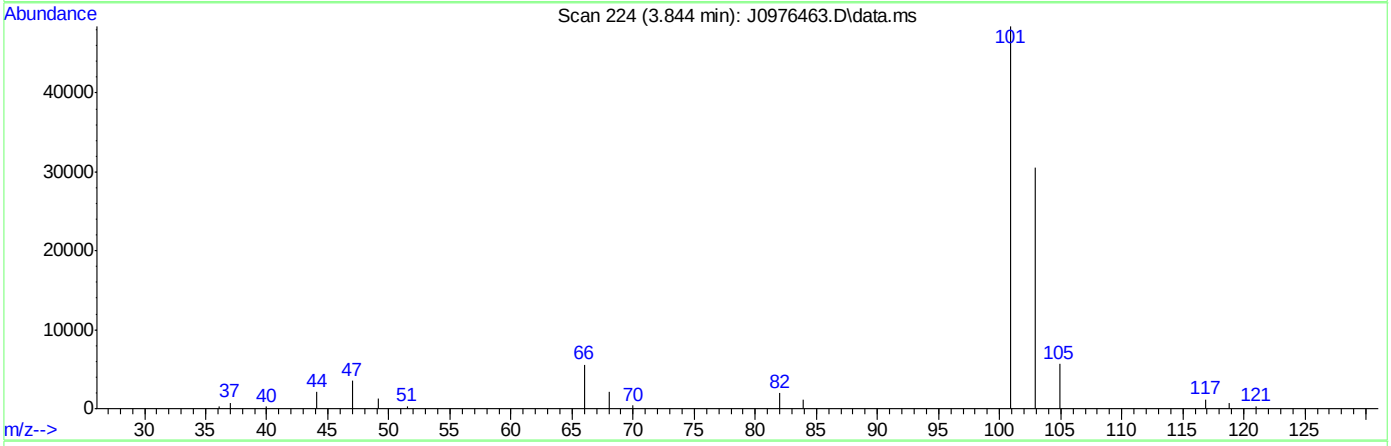
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichlorofluoromethane | 75-69-4 | | 3.84 | Split peak |
| Ethyl Alcohol | 64-17-5 | | 4.28 | Poor instrument integration |
| Carbon Tetrachloride | 56-23-5 | | 6.93 | Overlapping peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976463.D
Acq On : 12 May 2016 4:49 pm
Operator : darshnap
Sample : fa33878-1ms ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:01:41 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976463.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.000) 17.34ug/L

response 160011

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 63.08 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

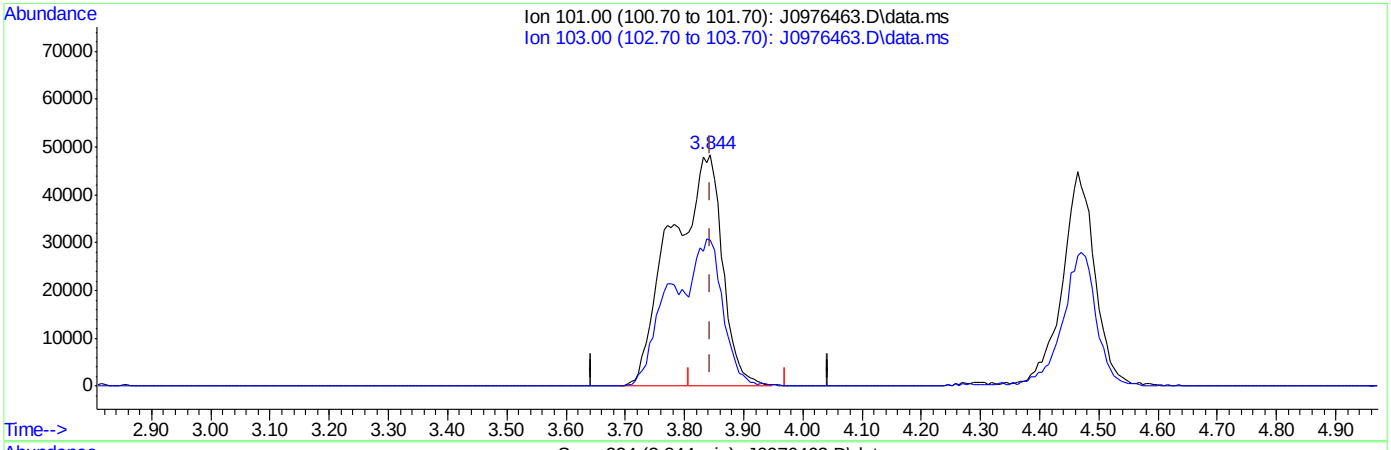


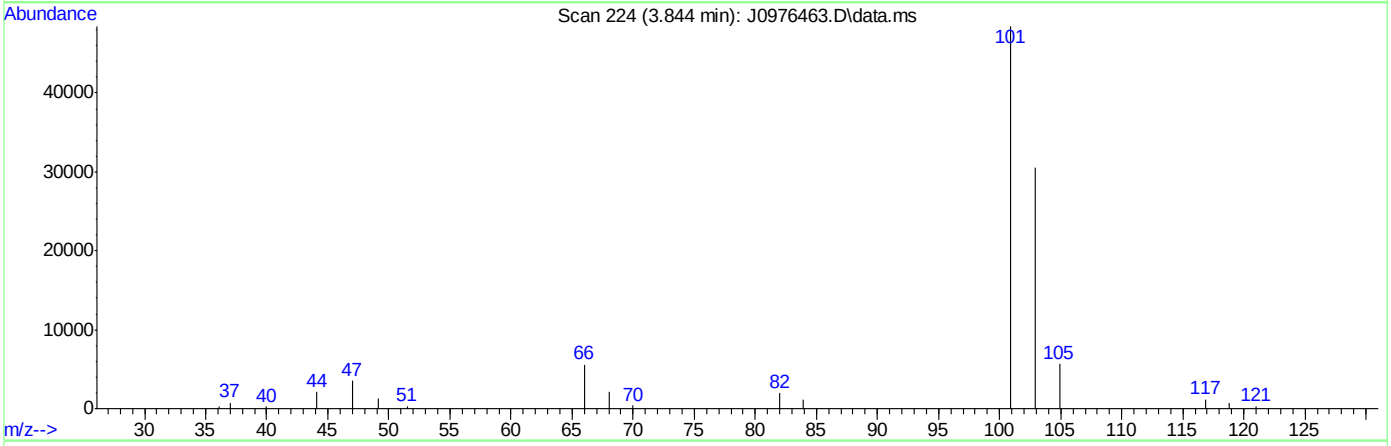
SGS ACCUTEST FA33878

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976463.D
Acq On : 12 May 2016 4:49 pm
Operator : darshnap
Sample : fa33878-1ms ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:01:41 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976463.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.000) 31.56ug/L m

response 291246

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 63.08 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

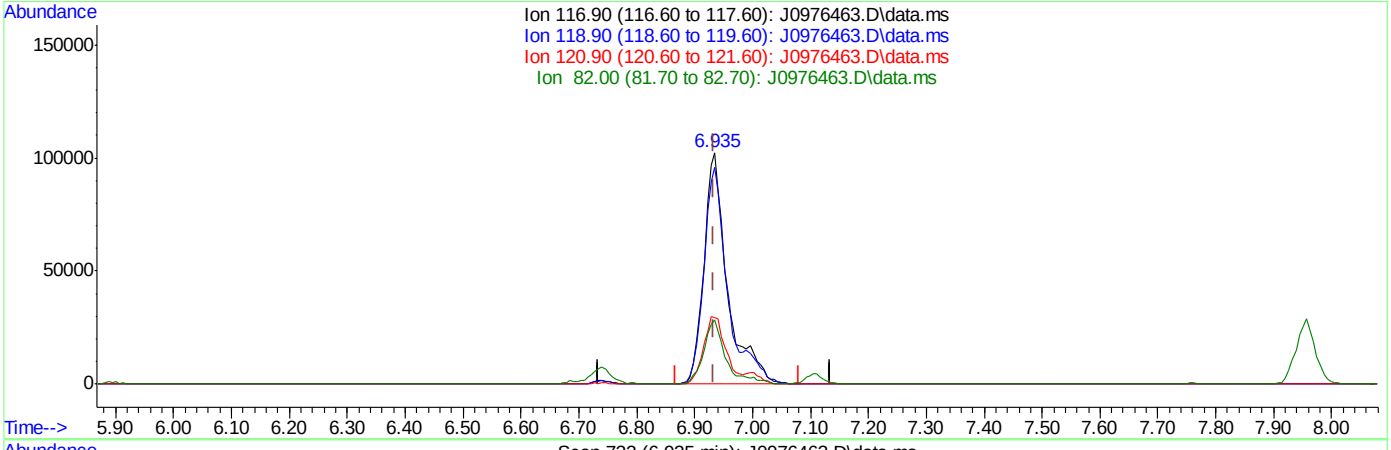


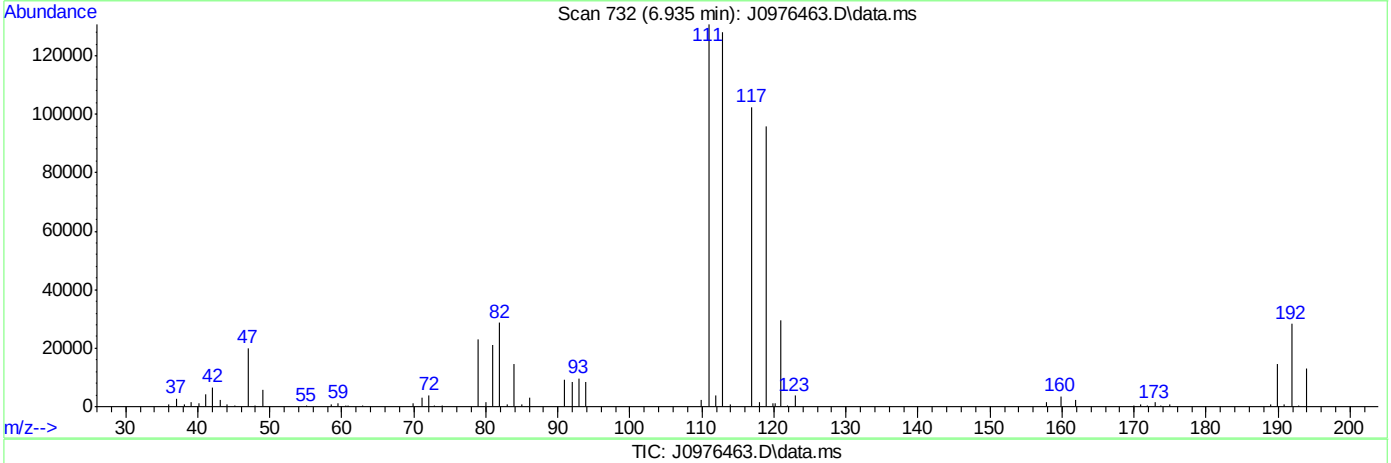
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976463.D
Acq On : 12 May 2016 4:49 pm
Operator : darshnap
Sample : fa33878-1ms ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:01:41 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976463.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 29.23ug/L

response 294208

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 93.74 |
| 120.90 | 31.20 | 28.76 |
| 82.00 | 25.70 | 27.93 |

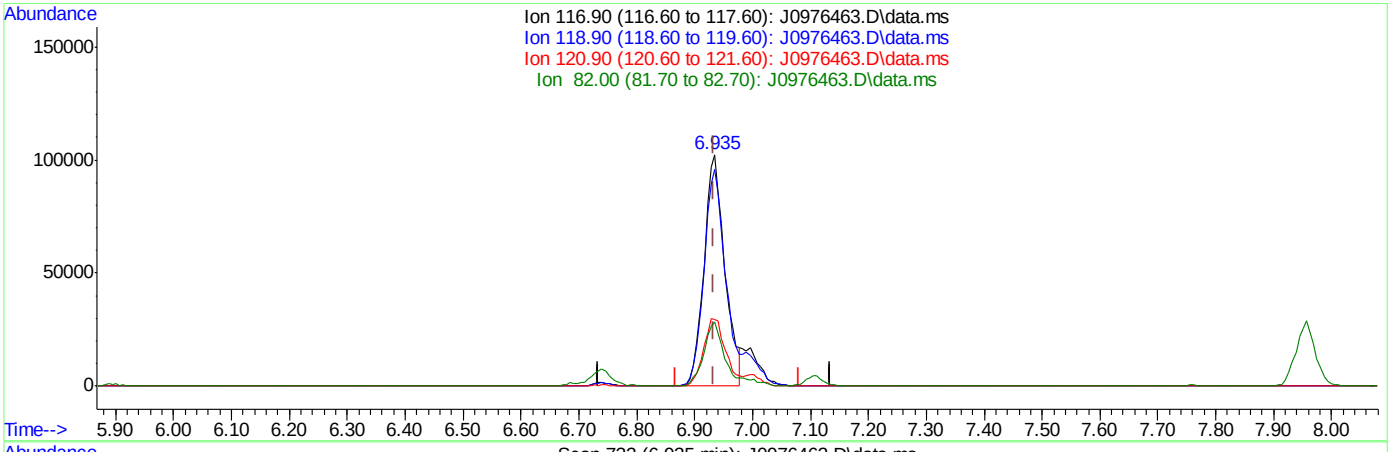


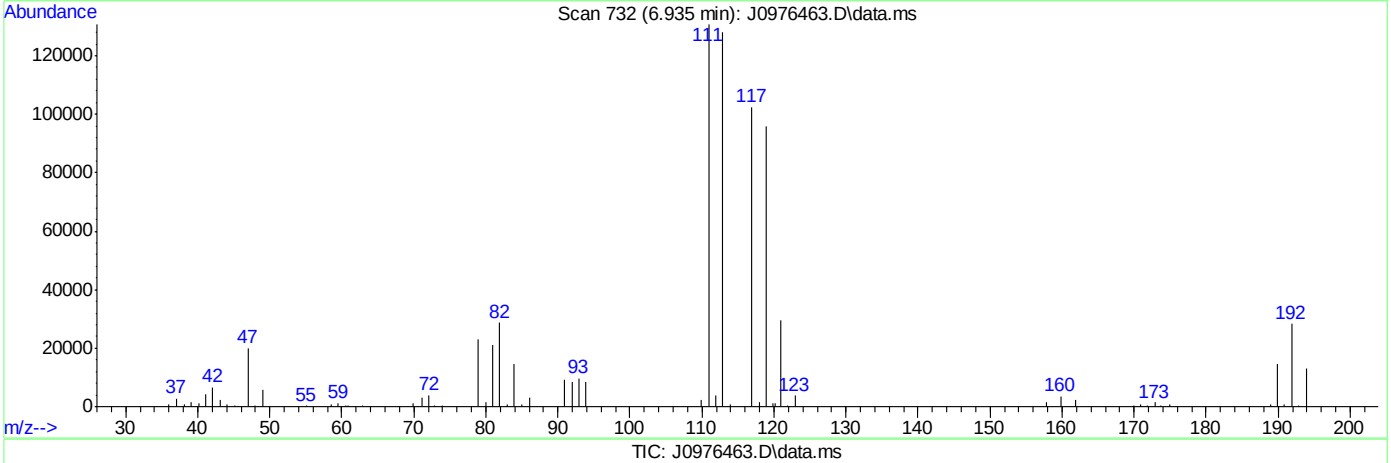
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976463.D
Acq On : 12 May 2016 4:49 pm
Operator : darshnap
Sample : fa33878-1ms ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:01:41 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976463.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 25.66ug/L m

response 258323

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 93.74 |
| 120.90 | 31.20 | 28.76 |
| 82.00 | 25.70 | 27.93 |

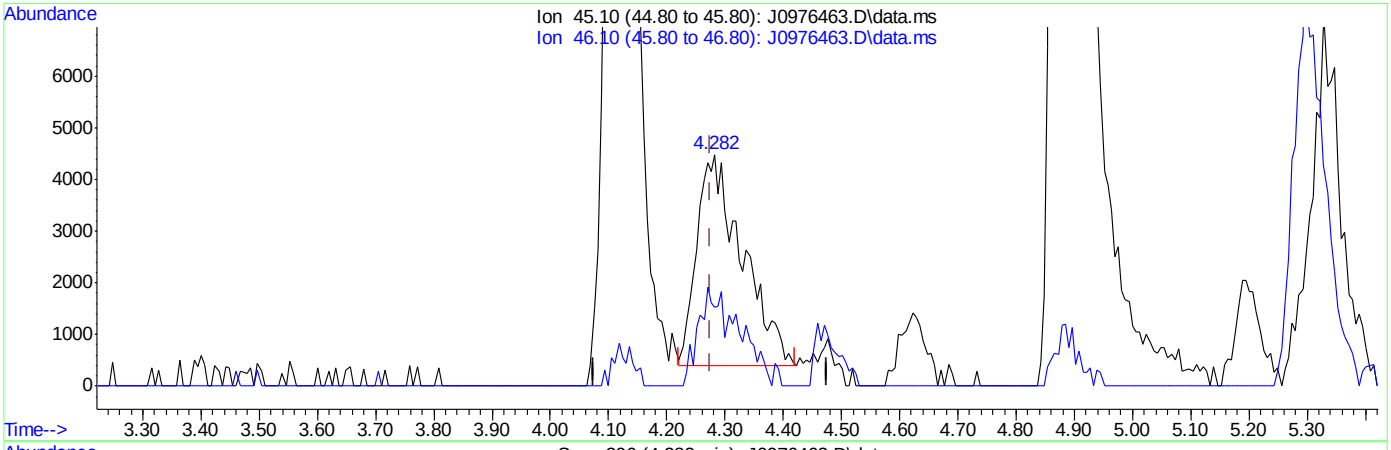


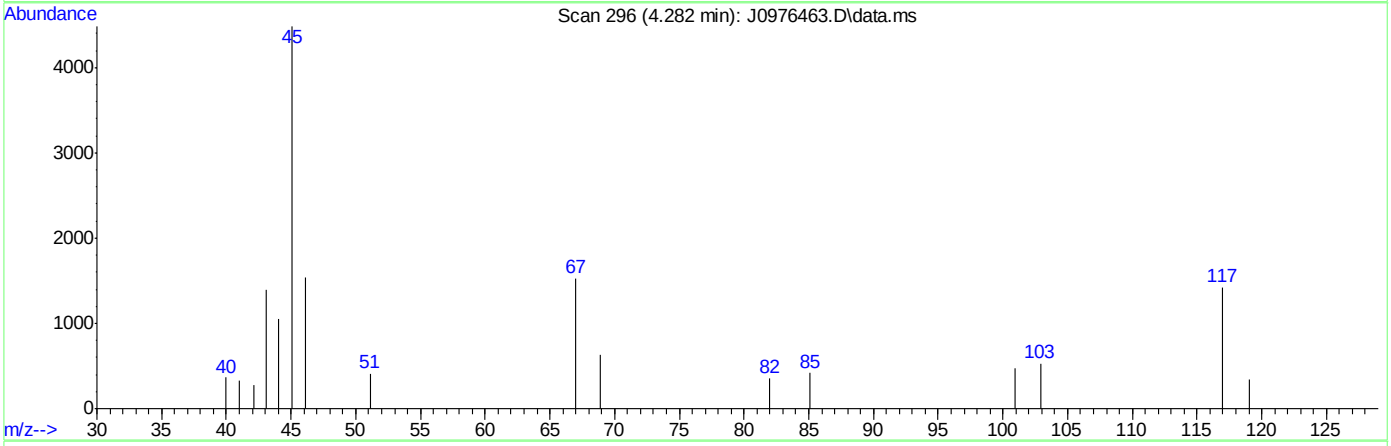
SGS ACCUTEST FA33878

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976463.D
Acq On : 12 May 2016 4:49 pm
Operator : darshnap
Sample : fa33878-1ms ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:01:41 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976463.D\data.ms

(107) Ethanol

4.282min (+0.006) 521.89ug/L

response 22216

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 37.44 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

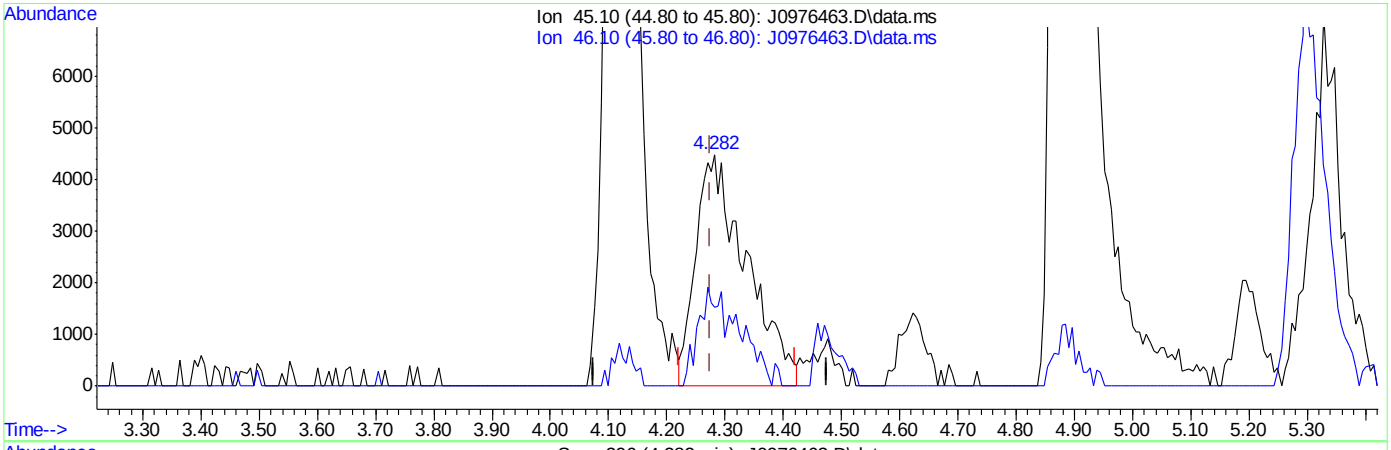


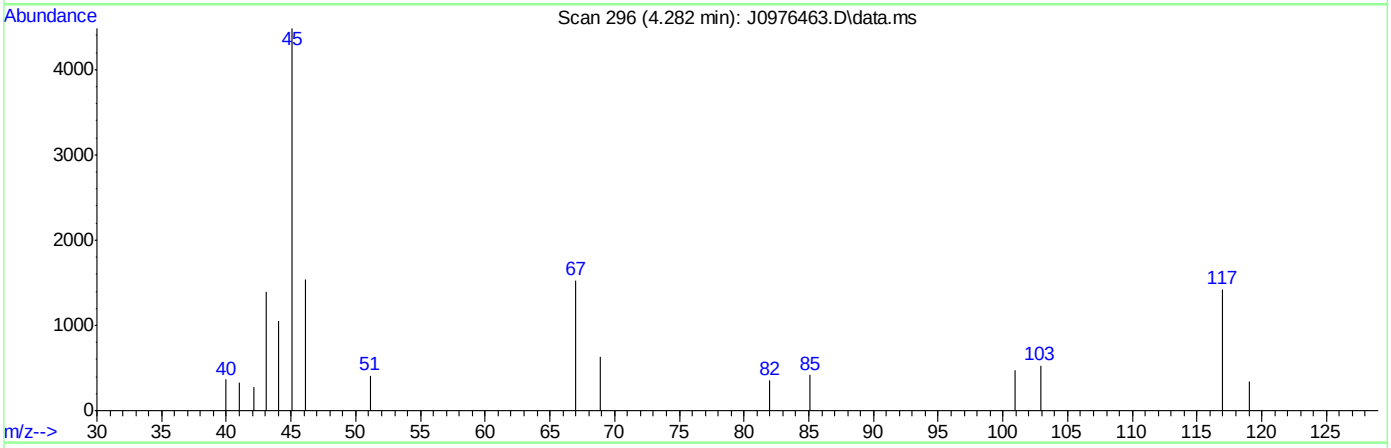
SGS ACCUTEST FA33878

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976463.D
Acq On : 12 May 2016 4:49 pm
Operator : darshnap
Sample : fa33878-1ms ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:01:41 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976463.D\data.ms

(107) Ethanol

4.282min (+0.006) 632.51ug/L m

response 26925

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 34.17 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:32

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976464.D
Acq On : 12 May 2016 5:12 pm
Operator : darshnap
Sample : fa33878-1msd ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:11:29 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1404262 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 1112976 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.201 | 152 | 616139 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.292 | 65 | 94704 | 250.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 36) Dibromofluoromethane | 6.922 | 113 | 342476 | 48.67 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 97.34% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 416576 | 50.64 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 101.28% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1392168 | 48.57 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 97.14% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 564923 | 50.29 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 100.58% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.694 | 85 | 161559 | 29.33 | ug/L | 95 |
| 3) Chloromethane | 2.895 | 50 | 203621 | 28.33 | ug/L | 98 |
| 4) Vinyl Chloride | 3.041 | 62 | 213515 | 27.05 | ug/L | 95 |
| 5) 1,3-Butadiene | 3.029 | 54 | 31331 | Below Cal | | 88 |
| 6) Bromomethane | 3.455 | 94 | 131541 | 26.53 | ug/L | 98 |
| 7) Chloroethane | 3.613 | 64 | 102118 | 28.16 | ug/L | 93 |
| 8) Trichlorofluoromethane | 3.832 | 101 | 287785m | 28.63 | ug/L | |
| 9) Ethyl Ether | 4.118 | 59 | 129301 | 23.12 | ug/L | 98 |
| 10) 1,2-Dichlorotrifluoroe... | 4.361 | 67 | 220947 | 25.77 | ug/L | 95 |
| 11) 1,1-Dichloroethene | 4.398 | 61 | 296804 | 28.64 | ug/L | 95 |
| 12) Freon 113 | 4.465 | 101 | 175562 | 24.52 | ug/L | 95 |
| 13) Carbon Disulfide | 4.477 | 76 | 516396 | 22.29 | ug/L | 99 |
| 14) Iodomethane | 4.586 | 142 | 285544 | 24.81 | ug/L | 98 |
| 15) Allyl chloride | 4.921 | 41 | 209563 | 23.71 | ug/L | 99 |
| 16) Methylene Chloride | 5.043 | 49 | 225323 | 23.76 | ug/L | 98 |
| 17) Acetone | 5.073 | 58 | 49363 | 114.42 | ug/L | 97 |
| 18) Methyl acetate | 5.189 | 74 | 93318 | 114.98 | ug/L # | 92 |
| 19) trans-1,2-Dichloroethene | 5.225 | 61 | 269452 | 28.18 | ug/L | 97 |
| 20) Hexane | 5.298 | 56 | 160070 | 24.87 | ug/L | 99 |
| 21) Methyl Tert Butyl Ether | 5.335 | 73 | 463964 | 22.54 | ug/L | 95 |
| 22) Acetonitrile | 5.596 | 40 | 65107 | 246.93 | ug/L # | 86 |
| 23) Di-isopropyl ether | 5.712 | 45 | 524377 | 22.98 | ug/L | 100 |
| 24) Chloroprene | 5.870 | 53 | 222804 | 24.23 | ug/L | 97 |
| 25) 1,1-Dichloroethane | 5.894 | 63 | 344103 | 26.61 | ug/L | 94 |
| 26) Acrylonitrile | 5.925 | 53 | 204947 | 119.89 | ug/L | 94 |
| 27) ETBE | 6.119 | 59 | 529824 | 22.69 | ug/L | 97 |
| 28) Vinyl acetate | 6.107 | 43 | 1238630 | 117.97 | ug/L | 100 |
| 29) cis-1,2-Dichloroethene | 6.472 | 96 | 199415 | 24.21 | ug/L | 98 |
| 30) 2,2-Dichloropropane | 6.600 | 77 | 264124 | 24.51 | ug/L | 100 |
| 31) Bromochloromethane | 6.685 | 128 | 84394 | 21.78 | ug/L | 92 |
| 32) Cyclohexane | 6.734 | 56 | 316485 | 26.18 | ug/L | 98 |
| 33) Chloroform | 6.734 | 83 | 343587 | 24.25 | ug/L | 98 |
| 34) Ethyl acetate | 6.801 | 43 | 470928 | 120.87 | ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976464.D
Acq On : 12 May 2016 5:12 pm
Operator : darshnap
Sample : fa33878-1msd ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:11:29 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) Tetrahydrofuran | 6.922 | 42 | 28612 | 24.17 ug/L | 89 |
| 37) Carbon Tetrachloride | 6.929 | 117 | 258428m | 23.57 ug/L | |
| 38) 1,1,1-Trichloroethane | 6.989 | 97 | 301840 | 23.89 ug/L | 97 |
| 39) 2-Butanone | 7.020 | 43 | 213633 | 115.55 ug/L | 99 |
| 40) 1,1-Dichloropropene | 7.105 | 75 | 243397 | 24.74 ug/L | 99 |
| 41) tert-Butyl Formate | 7.184 | 59 | 129631 | 26.82 ug/L | 92 |
| 42) Propionitrile | 7.330 | 54 | 165161 | 264.07 ug/L | 77 |
| 43) Methacrylonitrile | 7.360 | 41 | 677840 | 250.76 ug/L | 98 |
| 44) Benzene | 7.354 | 78 | 792790 | 25.18 ug/L | 100 |
| 45) TAME | 7.433 | 73 | 467069 | 21.65 ug/L | 95 |
| 47) 1,2-Dichloroethane | 7.543 | 62 | 245382 | 24.21 ug/L | 99 |
| 48) Trichloroethene | 7.932 | 95 | 206487 | 26.15 ug/L | 99 |
| 49) Methylcyclohexane | 7.951 | 83 | 358690 | 26.40 ug/L | 98 |
| 50) Dibromomethane | 8.358 | 93 | 102252 | 23.20 ug/L | 96 |
| 51) 1,2-Dichloropropane | 8.449 | 63 | 177655 | 23.10 ug/L | 96 |
| 52) Bromodichloromethane | 8.492 | 83 | 219450 | 21.52 ug/L | 96 |
| 53) Methyl methacrylate | 8.595 | 41 | 99498 | 26.01 ug/L | 98 |
| 55) cis-1,3-Dichloropropene | 9.113 | 75 | 253080 | 21.52 ug/L | 99 |
| 58) Toluene | 9.350 | 91 | 835252 | 24.94 ug/L | 100 |
| 59) 2-Nitropropane | 9.557 | 41 | 138582 | 113.07 ug/L | 96 |
| 60) 4-Methyl-2-pentanone | 9.672 | 43 | 567028 | 114.56 ug/L | 99 |
| 61) trans-1,3-Dichloropropene | 9.733 | 75 | 240256 | 23.60 ug/L | 97 |
| 62) Tetrachloroethene | 9.757 | 166 | 205627 | 24.68 ug/L | 98 |
| 63) Ethyl methacrylate | 9.836 | 69 | 160929 | 21.49 ug/L | 98 |
| 64) 1,1,2-Trichloroethane | 9.903 | 83 | 136222 | 24.89 ug/L | 96 |
| 65) Dibromochloromethane | 10.098 | 129 | 144107 | 19.72 ug/L | 99 |
| 66) 1,3-Dichloropropane | 10.183 | 76 | 246846 | 22.16 ug/L | 99 |
| 67) 1,2-Dibromoethane | 10.360 | 107 | 149356 | 23.83 ug/L | 95 |
| 68) 2-hexanone | 10.487 | 43 | 387009 | 116.41 ug/L | 99 |
| 69) 1-Chlorohexane | 10.798 | 91 | 262241 | 26.50 ug/L | 97 |
| 70) Ethylbenzene | 10.858 | 91 | 2679048 | 75.90 ug/L | 96 |
| 71) Chlorobenzene | 10.865 | 112 | 596922 | 26.13 ug/L | 77 |
| 72) 1,1,1,2-Tetrachloroethane | 10.913 | 131 | 183438 | 24.28 ug/L | 96 |
| 73) m,p-Xylene | 10.998 | 91 | 2692429 | 96.63 ug/L | 99 |
| 74) o-Xylene | 11.436 | 91 | 771845 | 25.84 ug/L | 98 |
| 75) Styrene | 11.485 | 104 | 485856 | 21.08 ug/L | 99 |
| 76) Bromoform | 11.546 | 173 | 87534 | 18.62 ug/L | 99 |
| 77) Isopropylbenzene | 11.741 | 105 | 1847152 | 51.99 ug/L | 98 |
| 80) cis-1,4-Dichloro-2-butene | 12.087 | 53 | 33236 | 17.75 ug/L | 96 |
| 81) n-Propylbenzene | 12.160 | 91 | 1391226 | 31.58 ug/L | 98 |
| 82) Bromobenzene | 12.185 | 156 | 242748 | 24.04 ug/L | 99 |
| 83) 1,1,2,2-Tetrachloroethane | 12.221 | 83 | 199257 | 24.74 ug/L | 96 |
| 84) 1,3,5-Trimethylbenzene | 12.343 | 105 | 755201 | 22.36 ug/L | 98 |
| 85) 2-Chlorotoluene | 12.349 | 91 | 780558 | 24.58 ug/L | 98 |
| 86) trans-1,4-Dichloro-2-B... | 12.398 | 53 | 34379 | 18.12 ug/L # | 84 |
| 87) 1,2,3-Trichloropropane | 12.379 | 110 | 50975 | 23.94 ug/L | 97 |
| 88) Cyclohexanone | 12.446 | 55 | 18931 | 100.92 ug/L | 94 |
| 89) 4-Chlorotoluene | 12.519 | 91 | 716906 | 24.49 ug/L | 100 |
| 90) a-Methyl Styrene | 12.751 | 118 | 7034 | 0.42 ug/L # | 1 |
| 91) tert-Butylbenzene | 12.684 | 91 | 469069 | 25.34 ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976464.D
Acq On : 12 May 2016 5:12 pm
Operator : darshnap
Sample : fa33878-1msd ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:11:29 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 92) | 1,2,4-Trimethylbenzene | 12.751 | 105 | 754104 | 22.36 | ug/L | | 99 |
| 93) | Pentachloroethane | 12.738 | 167 | 146907 | 24.02 | ug/L | | 99 |
| 94) | sec-Butylbenzene | 12.866 | 105 | 1038612 | 25.76 | ug/L | | 98 |
| 95) | 4-Isopropyltoluene | 13.000 | 119 | 845255 | 24.54 | ug/L | | 99 |
| 96) | 1,3-Dichlorobenzene | 13.134 | 146 | 432771 | 24.32 | ug/L | | 98 |
| 97) | 1,4-Dichlorobenzene | 13.219 | 146 | 437435 | 23.69 | ug/L | | 98 |
| 98) | n-Butylbenzene | 13.432 | 92 | 468490 | 25.34 | ug/L | | 99 |
| 99) | Benzyl Chloride | 13.450 | 126 | 60785 | 20.99 | ug/L | # | 82 |
| 100) | 1,2-Dichlorobenzene | 13.645 | 146 | 390695 | 23.56 | ug/L | | 98 |
| 101) | 1,2-Dibromo-3-Chloropr... | 14.381 | 75 | 23810 | 22.38 | ug/L | | 97 |
| 102) | Hexachlorobutadiene | 14.928 | 225 | 171548 | 24.24 | ug/L | | 97 |
| 103) | 1,2,4-Trichlorobenzene | 14.971 | 180 | 258118 | 22.84 | ug/L | | 97 |
| 104) | Naphthalene | 15.257 | 128 | 425663 | 25.84 | ug/L | | 100 |
| 105) | 1,2,3-Trichlorobenzene | 15.427 | 180 | 223041 | 23.75 | ug/L | | 99 |
| 107) | Ethanol | 4.282 | 45 | 31380m | 670.08 | ug/L | | |
| 108) | acrolein | 4.757 | 56 | 86463 | 96.83 | ug/L | | 94 |
| 109) | Tert Butyl Alcohol | 5.377 | 59 | 171320 | 364.69 | ug/L | | 78 |
| 110) | tert Amyl alcohol | 7.573 | 59 | 81711 | 213.11 | ug/L | | 98 |
| 111) | Isobutyl alcohol | 7.452 | 42 | 72886 | 428.33 | ug/L | | 91 |
| 112) | 1,4-Dioxane | 8.668 | 88 | 25684 | 475.43 | ug/L | | 95 |
| 113) | 3,3-Dimethyl-1-butanol | 10.433 | 57 | 467400 | 1114.80 | ug/L | | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.2

7

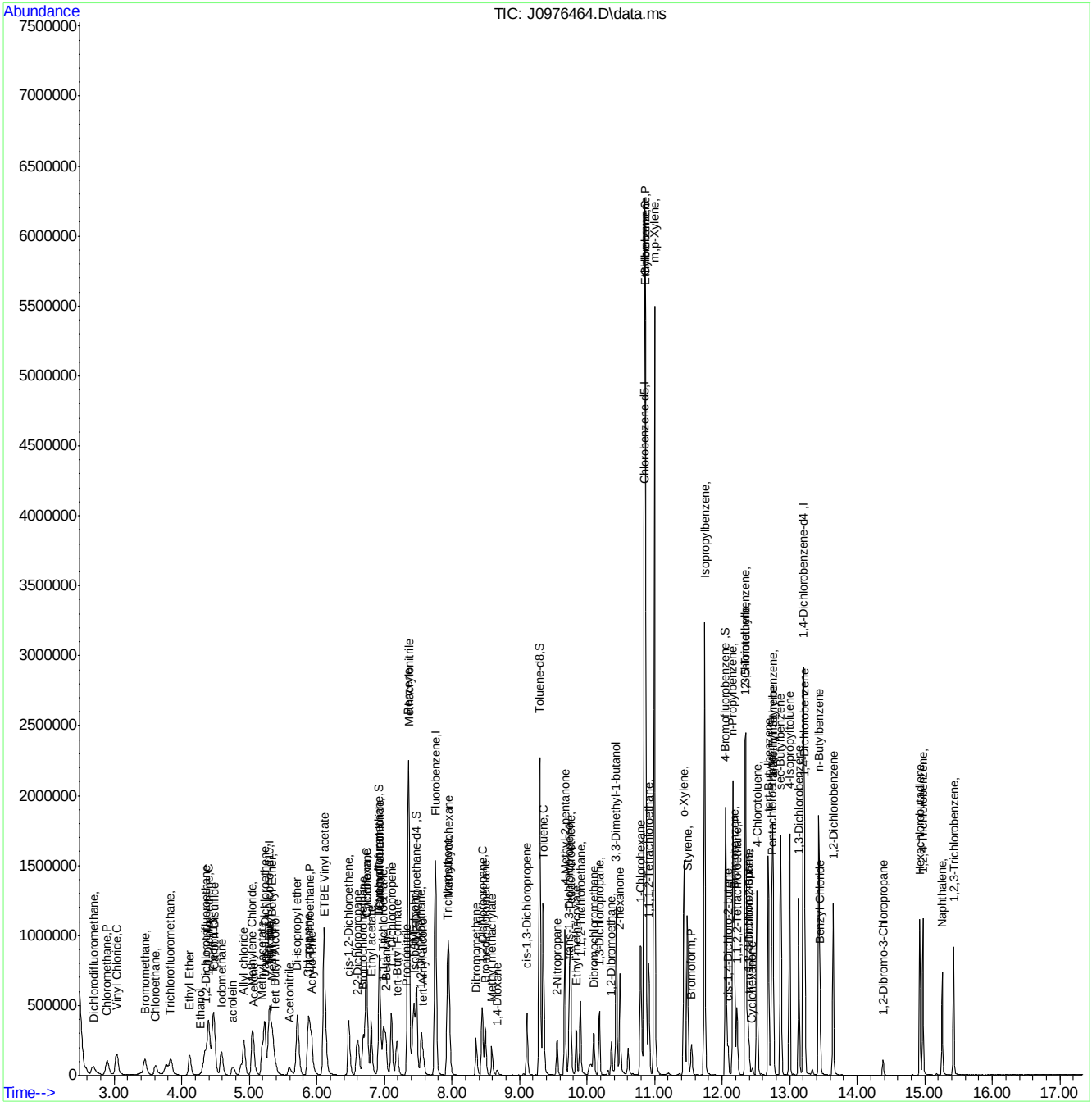


SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976464.D
Acq On : 12 May 2016 5:12 pm
Operator : darshnap
Sample : fa33878-1msd ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:11:29 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




MSJ051216a.M Fri May 13 09:48:44 2016 Page: 4

# Manual Integration Approval Summary



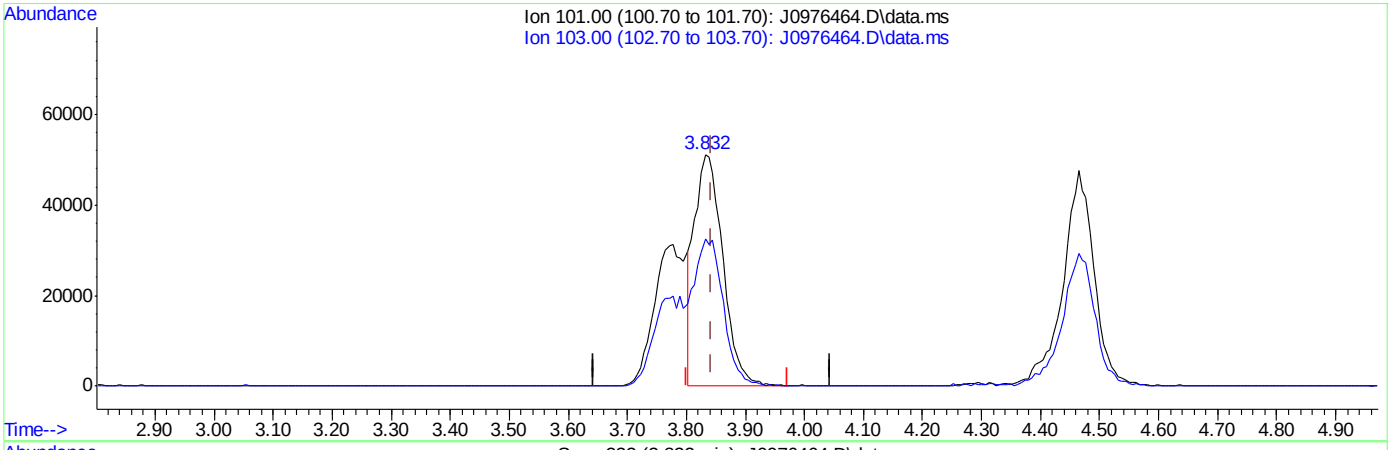
| | | | |
|---|---|---|---|
| **Sample Number:** | FA33878-1MSD | **Method:** | SW846 8260C |
| **Lab FileID:** | J0976464.D | **Analyst approved:** | 05/13/16 09:57 Darshna Patel |
| **Injection Time:** | 05/12/16 17:12 | **Supervisor approved:** | 05/13/16 11:32 Melissa Mangual |

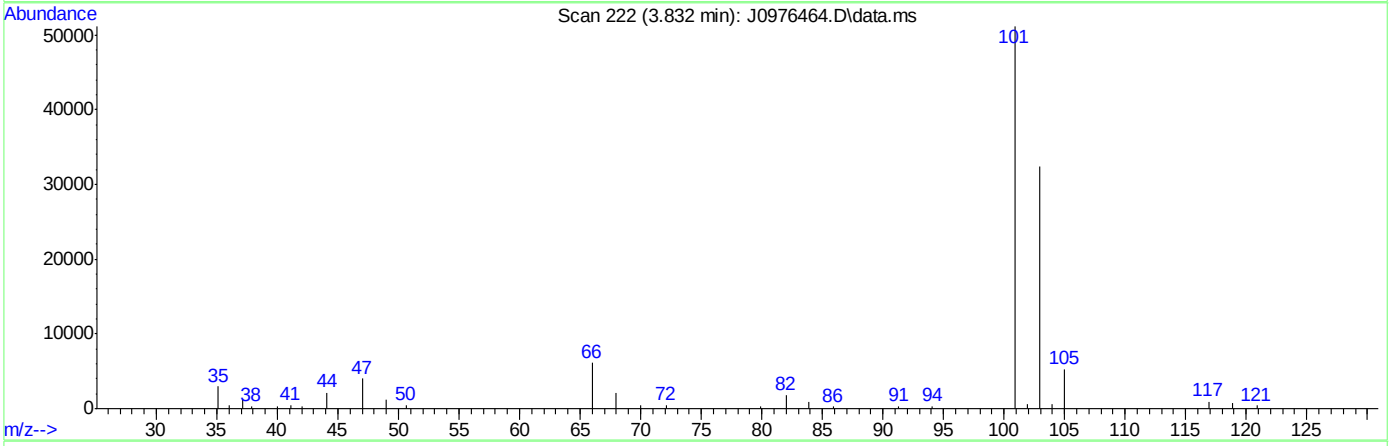
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichlorofluoromethane | 75-69-4 | | 3.83 | Split peak |
| Ethyl Alcohol | 64-17-5 | | 4.28 | Poor instrument integration |
| Carbon Tetrachloride | 56-23-5 | | 6.93 | Overlapping peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976464.D
Acq On : 12 May 2016 5:12 pm
Operator : darshnap
Sample : fa33878-1msd ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:01:44 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976464.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.012) 17.09ug/L

response 171720

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 63.37 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

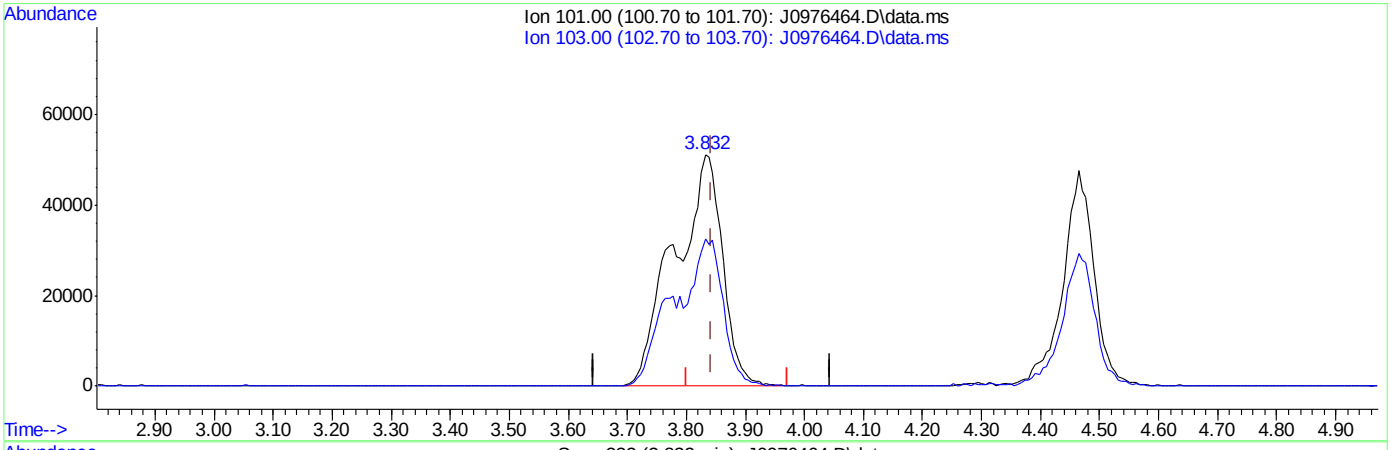


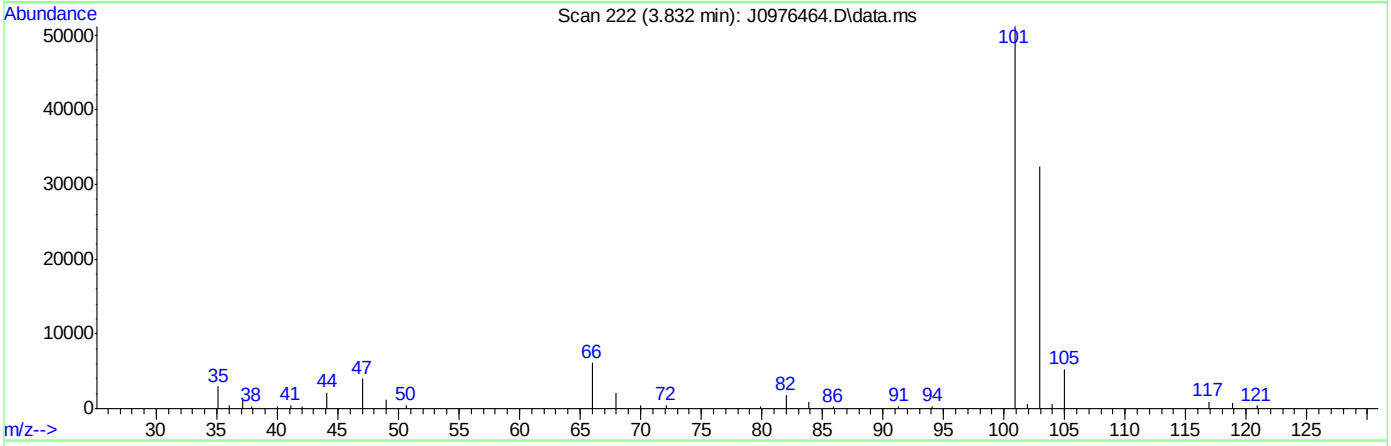
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976464.D
Acq On : 12 May 2016 5:12 pm
Operator : darshnap
Sample : fa33878-1msd ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:01:44 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976464.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.012) 28.63ug/L m

response 287785

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 63.37 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

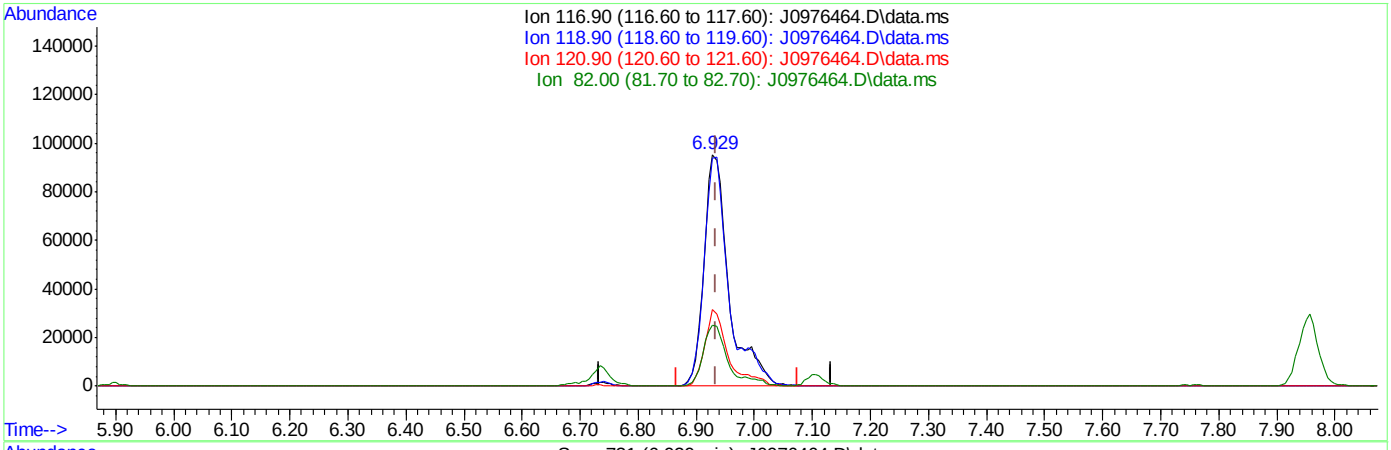


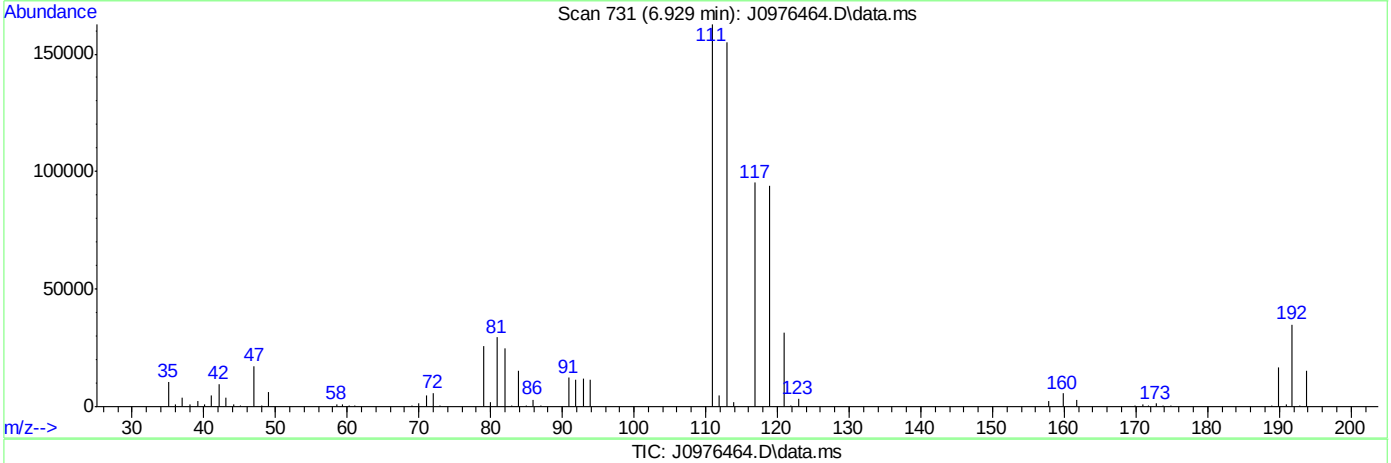
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976464.D
Acq On : 12 May 2016 5:12 pm
Operator : darshnap
Sample : fa33878-1msd ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:01:44 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976464.D\data.ms

(37) Carbon Tetrachloride ( )

6.929min (-0.005) 26.10ug/L

response 286155

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 98.50 |
| 120.90 | 31.20 | 33.16 |
| 82.00 | 25.70 | 26.21 |

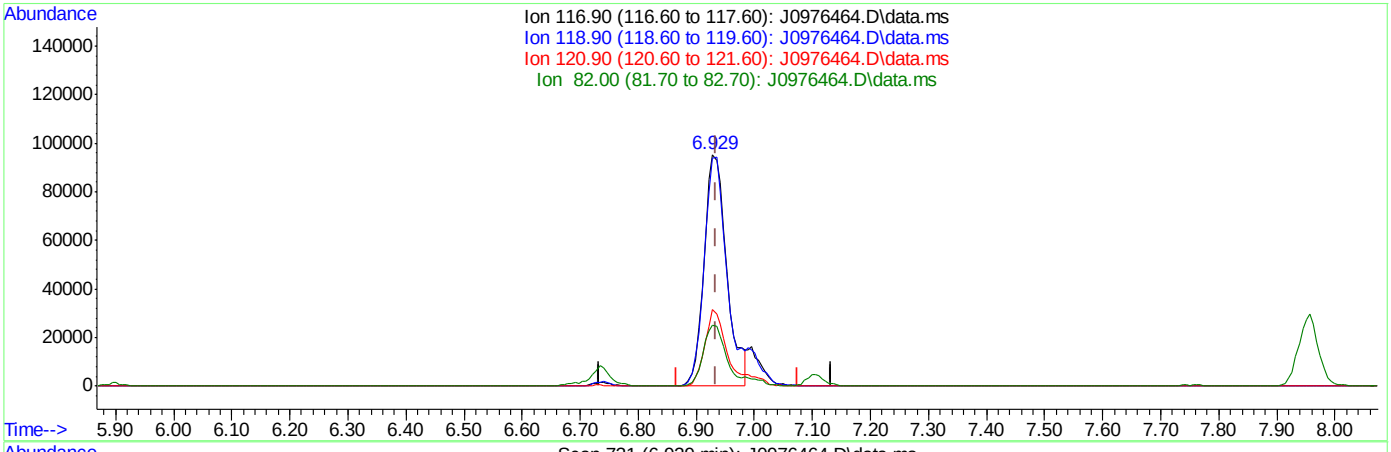


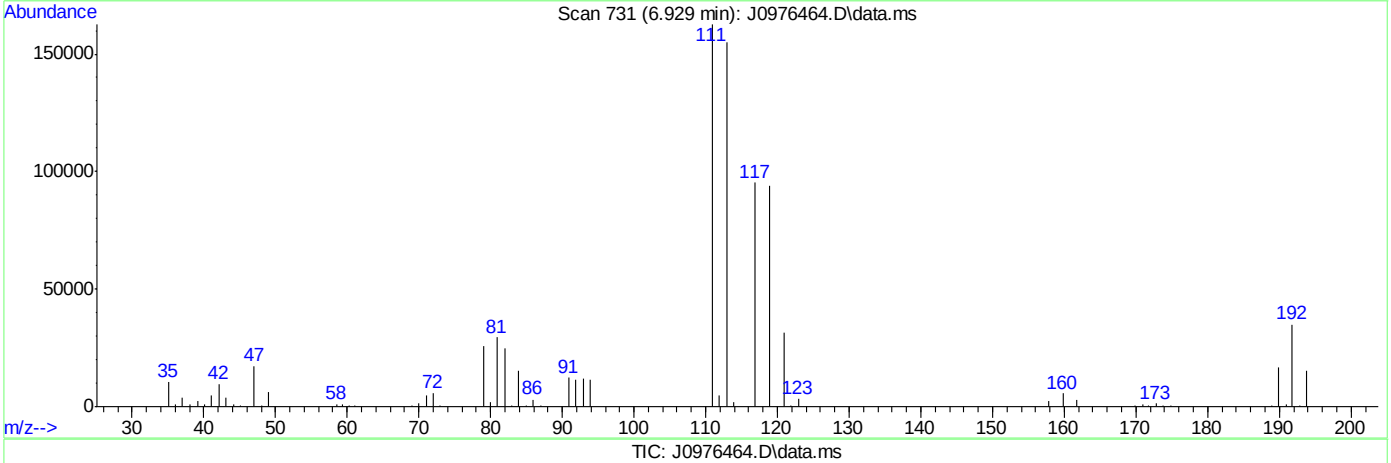
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976464.D
Acq On : 12 May 2016 5:12 pm
Operator : darshnap
Sample : fa33878-1msd ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:01:44 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976464.D\data.ms

(37) Carbon Tetrachloride ( )

6.929min (-0.005) 23.57ug/L m

response 258428

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 98.50 |
| 120.90 | 31.20 | 33.16 |
| 82.00 | 25.70 | 26.21 |

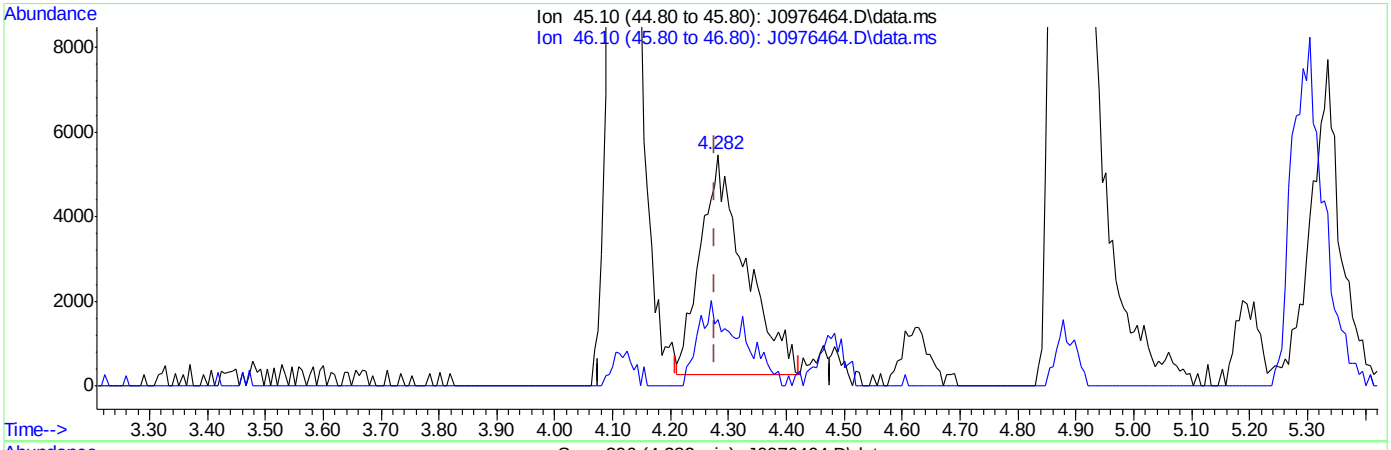


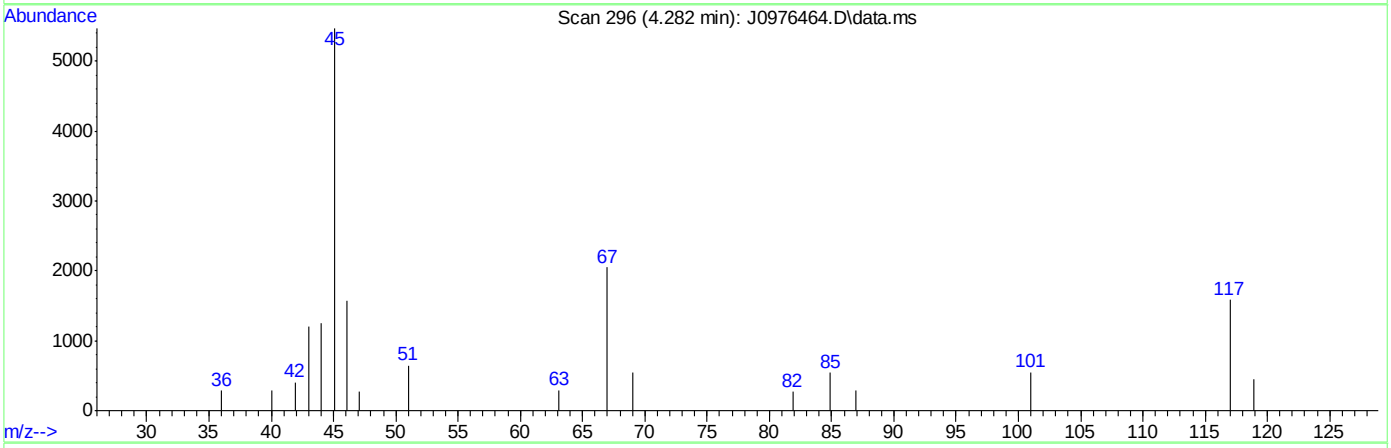
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976464.D
Acq On : 12 May 2016 5:12 pm
Operator : darshnap
Sample : fa33878-1msd ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:01:44 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




(107) Ethanol

4.282min (+0.006) 594.25ug/L

response 27829

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 30.21 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

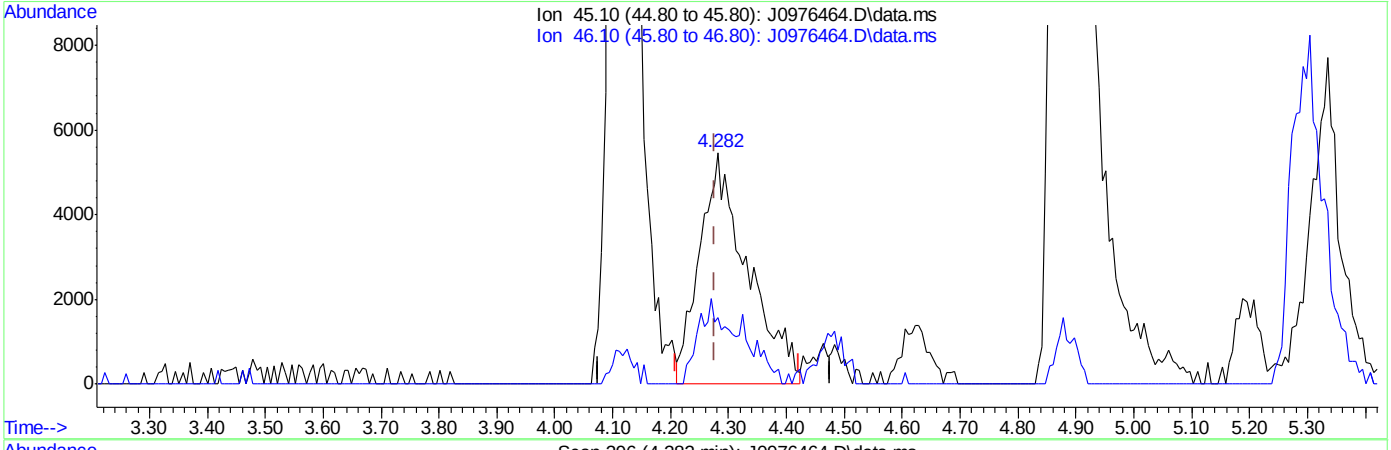


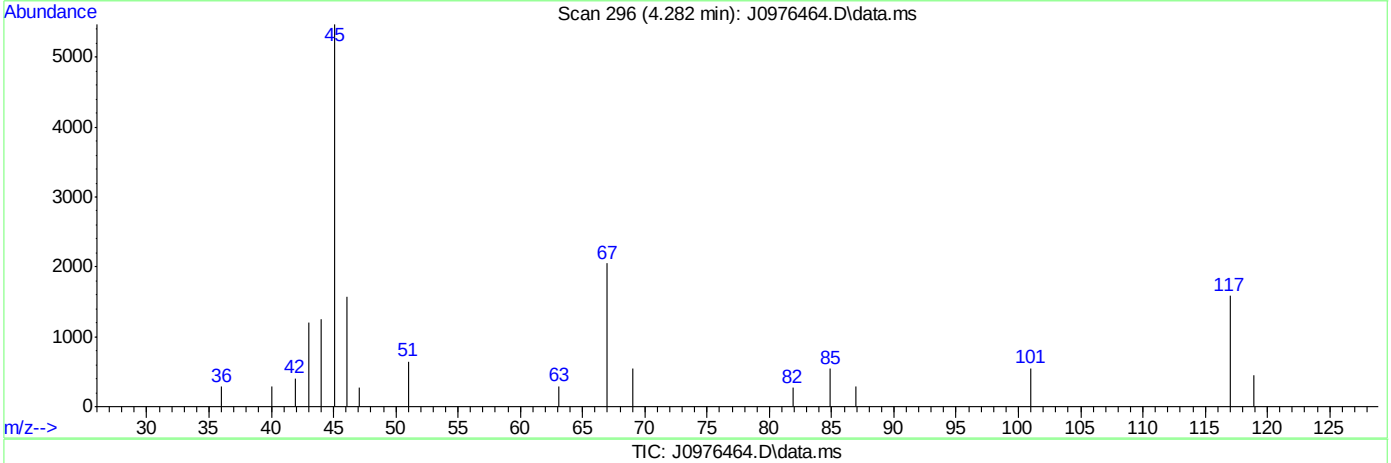
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976464.D
Acq On : 12 May 2016 5:12 pm
Operator : darshnap
Sample : fa33878-1msd ma Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 13 08:01:44 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976464.D\data.ms

(107) Ethanol

4.282min (+0.006) 670.08ug/L m

response 31380

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 28.67 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/16/16 11:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115594.D
Acq On : 12 May 2016 6:24 pm
Operator : ericp
Sample : FA33788-8MS MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 13 07:35:37 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 6.884 | 96 | 1495826 | 50.00 | ug/Kg | 0.00 |
| 54) Chlorobenzene-d5 | 10.004 | 117 | 1120057 | 50.00 | ug/Kg | 0.00 |
| 76) 1,4-Dichlorobenzene-d4 | 12.371 | 152 | 571898 | 50.00 | ug/Kg | 0.00 |
| 103) Tert Butyl Alcohol-d10 | 4.572 | 65 | 62785 | 250.00 | ug/Kg | 0.05 |
| System Monitoring Compounds | | | | | | |
| 35) Dibromofluoromethane | 6.056 | 113 | 396658 | 45.34 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 90.68% | | | |
| 44) 1,2-Dichloroethane-d4 | 6.616 | 65 | 399129 | 40.20 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 72 - 135 | | Recovery = 80.40% | | | |
| 55) Toluene-d8 | 8.453 | 98 | 1504948 | 46.28 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 126 | | Recovery = 92.56% | | | |
| 77) 4-Bromofluorobenzene | 11.227 | 174 | 404459 | 54.36 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 71 - 133 | | Recovery = 108.72% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.224 | 85 | 680158 | 40.29 | ug/Kg | 99 |
| 3) Chloromethane | 2.412 | 50 | 766960 | 48.21 | ug/Kg | 100 |
| 4) Vinyl Chloride | 2.528 | 62 | 640270 | 48.08 | ug/Kg | 99 |
| 5) Bromomethane | 2.868 | 94 | 172409 | 30.19 | ug/Kg | 92 |
| 6) Chloroethane | 3.002 | 64 | 87770 | 17.54 | ug/Kg | 93 |
| 7) Trichlorofluoromethane | 3.148 | 101 | 212686 | 12.46 | ug/Kg | 96 |
| 8) Ethyl Ether | 3.452 | 59 | 222957 | 33.15 | ug/Kg | 94 |
| 9) 1,2-Dichlorotrifluoroe... | 3.671 | 67 | 385677 | 36.27 | ug/Kg | 96 |
| 10) 1,1-Dichloroethene | 3.659 | 61 | 542701 | 35.20 | ug/Kg | 91 |
| 11) Freon 113 | 3.720 | 101 | 334082 | 34.96 | ug/Kg | 98 |
| 12) Carbon Disulfide | 3.702 | 76 | 983382 | 32.83 | ug/Kg | 91 |
| 13) Iodomethane | 3.817 | 142 | 679477 | 39.74 | ug/Kg | 84 |
| 14) Allyl chloride | 4.140 | 41 | 392670 | 28.96 | ug/Kg | 83 |
| 15) Methylene Chloride | 4.249 | 49 | 434867 | 37.58 | ug/Kg | 97 |
| 16) Acetone | 4.322 | 43 | 286224 | 142.31 | ug/Kg | 87 |
| 17) Methyl acetate | 4.426 | 43 | 917958 | 248.64 | ug/Kg | 96 |
| 18) trans-1,2-Dichloroethene | 4.414 | 61 | 523196 | 41.23 | ug/Kg | 96 |
| 19) Hexane | 4.474 | 56 | 235636 | 34.28 | ug/Kg# | 83 |
| 20) Methyl Tert Butyl Ether | 4.523 | 73 | 968573 | 39.29 | ug/Kg | 91 |
| 21) Acetonitrile | 4.803 | 41 | 179732 | 317.46 | ug/Kg | 89 |
| 22) Di-isopropyl ether | 4.888 | 45 | 1100829 | 44.32 | ug/Kg | 96 |
| 23) Chloroprene | 5.016 | 53 | 645321 | 36.19 | ug/Kg | 87 |
| 24) 1,1-Dichloroethane | 5.046 | 63 | 751217 | 45.14 | ug/Kg | 97 |
| 25) Acrylonitrile | 5.113 | 52 | 376161 | 209.04 | ug/Kg | 90 |
| 26) ETBE | 5.259 | 59 | 1125489 | 43.35 | ug/Kg | 93 |
| 27) Vinyl acetate | 5.277 | 43 | 2240215 | 193.36 | ug/Kg | 94 |
| 28) cis-1,2-Dichloroethene | 5.594 | 96 | 529043 | 45.53 | ug/Kg | 95 |
| 29) 2,2-Dichloropropane | 5.703 | 77 | 432304 | 36.50 | ug/Kg | 93 |
| 30) Bromochloromethane | 5.807 | 128 | 230305 | 44.59 | ug/Kg | 94 |
| 31) Cyclohexane | 5.807 | 84 | 656872 | 42.08 | ug/Kg | 93 |
| 32) Chloroform | 5.868 | 83 | 813413 | 43.92 | ug/Kg | 98 |
| 33) Ethyl acetate | 5.971 | 43 | 1019907 | 222.19 | ug/Kg | 100 |
| 34) Tetrahydrofuran | 6.050 | 42 | 62701 | 47.55 | ug/Kg | 91 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115594.D
Acq On : 12 May 2016 6:24 pm
Operator : ericp
Sample : FA33788-8MS MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 13 07:35:37 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) | Carbon Tetrachloride | 6.014 | 117 | 727852 | 39.94 | ug/Kg | 98 |
| 37) | 1,1,1-Trichloroethane | 6.093 | 97 | 654198 | 37.80 | ug/Kg | 94 |
| 38) | 2-Butanone | 6.190 | 43 | 512927 | 193.27 | ug/Kg | 89 |
| 39) | 1,1-Dichloropropene | 6.208 | 75 | 613737 | 45.32 | ug/Kg | 92 |
| 40) | Propionitrile | 6.512 | 54 | 343261 | 432.06 | ug/Kg# | 65 |
| 41) | Methacrylonitrile | 6.525 | 41 | 1357069 | 415.11 | ug/Kg | 94 |
| 42) | Benzene | 6.470 | 78 | 1716543 | 47.04 | ug/Kg | 93 |
| 43) | TAME | 6.567 | 73 | 1013914 | 43.83 | ug/Kg | 93 |
| 45) | 1,2-Dichloroethane | 6.683 | 62 | 545120 | 42.54 | ug/Kg | 93 |
| 46) | Trichloroethene | 7.054 | 95 | 464046 | 46.45 | ug/Kg | 96 |
| 47) | Methylcyclohexane | 7.048 | 83 | 736188 | 44.62 | ug/Kg | 97 |
| 48) | Dibromomethane | 7.492 | 93 | 269970 | 47.16 | ug/Kg | 92 |
| 49) | 1,2-Dichloropropane | 7.589 | 63 | 393064 | 46.63 | ug/Kg | 76 |
| 50) | Bromodichloromethane | 7.644 | 83 | 564715 | 45.03 | ug/Kg | 98 |
| 51) | Methyl methacrylate | 7.772 | 41 | 193783 | 46.39 | ug/Kg | 87 |
| 52) | 2-Chloroethyl vinyl ether | 8.192 | 63 | 884475 | 268.20 | ug/Kg | 94 |
| 53) | cis-1,3-Dichloropropene | 8.271 | 75 | 682410 | 58.22 | ug/Kg | 87 |
| 56) | Toluene | 8.502 | 91 | 1801971 | 47.56 | ug/Kg | 95 |
| 57) | 2-Nitropropane | 8.745 | 41 | 351864 | 182.52 | ug/Kg | 92 |
| 58) | 4-Methyl-2-pentanone | 8.873 | 43 | 1234174 | 190.12 | ug/Kg | 94 |
| 59) | trans-1,3-Dichloropropene | 8.915 | 75 | 520488 | 55.75 | ug/Kg | 91 |
| 60) | Tetrachloroethene | 8.891 | 166 | 482576 | 50.60 | ug/Kg | 94 |
| 61) | Ethyl methacrylate | 9.043 | 69 | 319422 | 40.57 | ug/Kg | 91 |
| 62) | 1,1,2-Trichloroethane | 9.080 | 83 | 288736 | 48.03 | ug/Kg | 92 |
| 63) | Dibromochloromethane | 9.262 | 129 | 420526 | 50.53 | ug/Kg | 93 |
| 64) | 1,3-Dichloropropane | 9.360 | 76 | 538220 | 49.38 | ug/Kg | 91 |
| 65) | 1,2-Dibromoethane | 9.512 | 107 | 336000 | 52.69 | ug/Kg | 95 |
| 66) | 2-hexanone | 9.700 | 43 | 718739 | 185.93 | ug/Kg | 92 |
| 67) | 1-Chlorohexane | 9.974 | 91 | 565214 | 47.15 | ug/Kg | 90 |
| 68) | Ethylbenzene | 10.035 | 91 | 1845754 | 46.46 | ug/Kg | 95 |
| 69) | Chlorobenzene | 10.023 | 112 | 1140644 | 50.98 | ug/Kg | 93 |
| 70) | 1,1,1,2-Tetrachloroethane | 10.084 | 131 | 493123 | 47.80 | ug/Kg | 92 |
| 71) | m,p-Xylene | 10.175 | 91 | 2776587 | 95.85 | ug/Kg | 89 |
| 72) | o-Xylene | 10.613 | 91 | 1724903 | 45.64 | ug/Kg | 92 |
| 73) | Styrene | 10.668 | 104 | 1148432 | 52.15 | ug/Kg | 94 |
| 74) | Bromoform | 10.716 | 173 | 205234 | 50.64 | ug/Kg | 94 |
| 75) | Isopropylbenzene | 10.923 | 105 | 2090932 | 47.41 | ug/Kg | 95 |
| 78) | cis-1,4-Dichloro-2-butene | 11.288 | 53 | 68347 | 36.21 | ug/Kg# | 76 |
| 79) | n-Propylbenzene | 11.343 | 91 | 2202712 | 42.85 | ug/Kg | 97 |
| 80) | Bromobenzene | 11.343 | 156 | 468506 | 51.57 | ug/Kg | 94 |
| 81) | 1,1,2,2-Tetrachloroethane | 11.422 | 83 | 438000 | 42.68 | ug/Kg | 99 |
| 82) | 1,3,5-Trimethylbenzene | 11.531 | 105 | 1675116 | 41.03 | ug/Kg | 92 |
| 83) | 2-Chlorotoluene | 11.519 | 91 | 1600293 | 46.53 | ug/Kg | 96 |
| 84) | trans-1,4-Dichloro-2-B... | 11.604 | 53 | 72969 | 44.30 | ug/Kg# | 69 |
| 85) | 1,2,3-Trichloropropane | 11.574 | 110 | 111660 | 41.40 | ug/Kg | 96 |
| 86) | Cyclohexanone | 11.635 | 55 | 56250 | 198.97 | ug/Kg | 97 |
| 87) | 4-Chlorotoluene | 11.690 | 91 | 1415065 | 50.13 | ug/Kg | 93 |
| 88) | tert-Butylbenzene | 11.866 | 91 | 1124420 | 40.14 | ug/Kg | 88 |
| 89) | 1,2,4-Trimethylbenzene | 11.939 | 105 | 1696790 | 42.14 | ug/Kg | 93 |
| 90) | Pentachloroethane | 11.909 | 167 | 283053 | 45.99 | ug/Kg | 94 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115594.D
Acq On : 12 May 2016 6:24 pm
Operator : ericp
Sample : FA33788-8MS MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 13 07:35:37 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

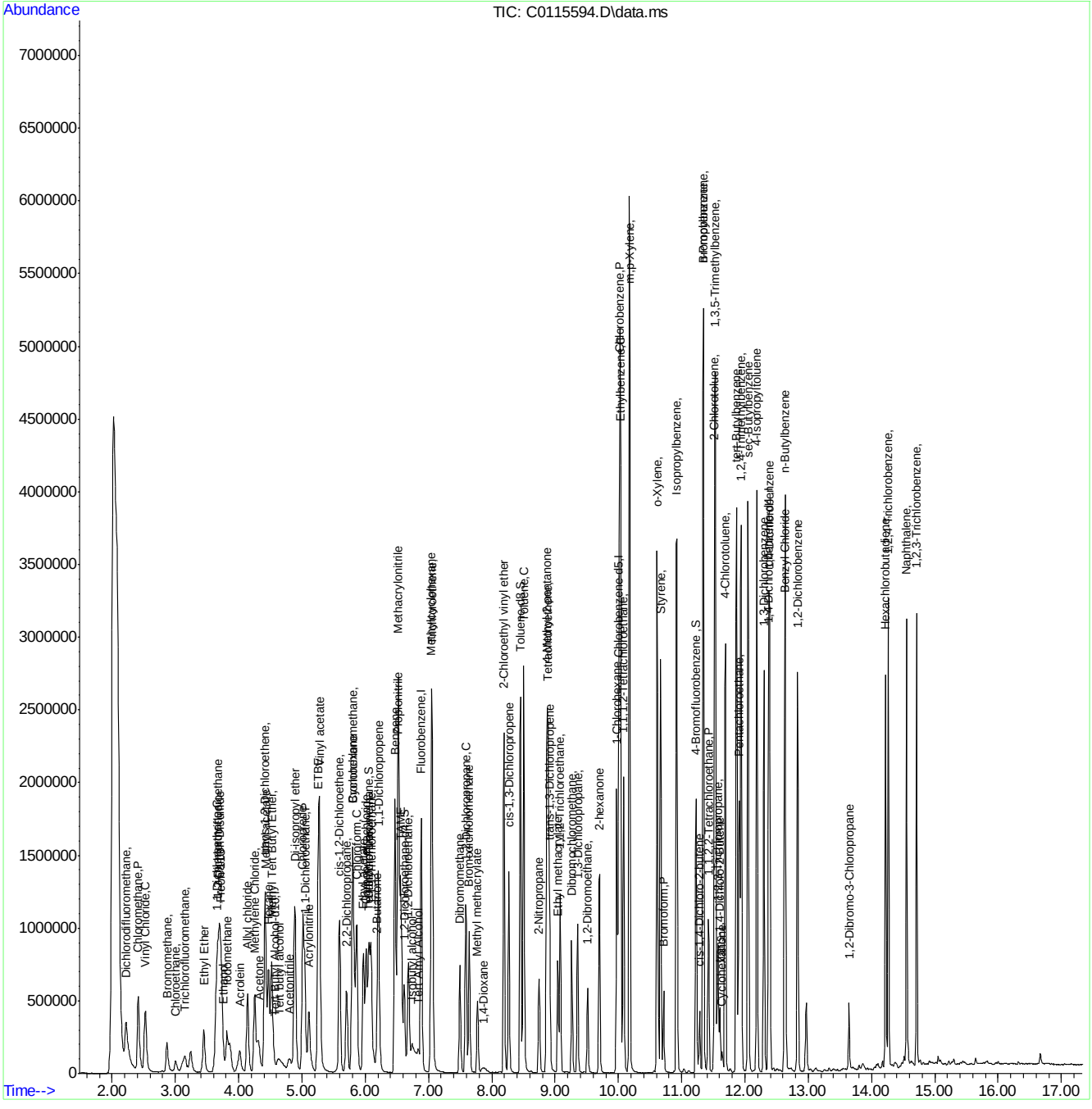
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 91) | sec-Butylbenzene | 12.049 | 105 | 2246162 | 44.99 | ug/Kg | 99 |
| 92) | 4-Isopropyltoluene | 12.188 | 119 | 1860846 | 43.33 | ug/Kg | 96 |
| 93) | 1,3-Dichlorobenzene | 12.298 | 146 | 948410 | 52.80 | ug/Kg | 96 |
| 94) | 1,4-Dichlorobenzene | 12.389 | 146 | 885598 | 51.14 | ug/Kg | 95 |
| 95) | n-Butylbenzene | 12.626 | 92 | 1014593 | 43.69 | ug/Kg | 96 |
| 96) | Benzyl Chloride | 12.639 | 126 | 155460 | 44.49 | ug/Kg# | 76 |
| 97) | 1,2-Dichlorobenzene | 12.833 | 146 | 941000 | 51.35 | ug/Kg | 95 |
| 98) | 1,2-Dibromo-3-Chloropr... | 13.642 | 75 | 86141 | 36.01 | ug/Kg | 95 |
| 99) | Hexachlorobutadiene | 14.220 | 225 | 351236 | 43.43 | ug/Kg | 94 |
| 100) | 1,2,4-Trichlorobenzene | 14.263 | 180 | 670280 | 51.08 | ug/Kg | 98 |
| 101) | Naphthalene | 14.555 | 128 | 1608178 | 47.01 | ug/Kg | 97 |
| 102) | 1,2,3-Trichlorobenzene | 14.713 | 180 | 657471 | 48.84 | ug/Kg | 94 |
| 104) | Ethanol | 3.763 | 45 | 37344m | 1991.17 | ug/Kg | |
| 105) | Acrolein | 4.018 | 56 | 182646 | 463.87 | ug/Kg | 97 |
| 106) | Tert butyl alcohol | 4.645 | 59 | 290585 | 909.97 | ug/Kg | 69 |
| 107) | Isobutyl alcohol | 6.738 | 42 | 57622 | 941.42 | ug/Kg# | 79 |
| 108) | Tert Amyl Alcohol | 6.835 | 59 | 255070 | 1065.09 | ug/Kg | 97 |
| 109) | 1,4-Dioxane | 7.875 | 88 | 62662 | 2422.62 | ug/Kg | 94 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115594.D
Acq On : 12 May 2016 6:24 pm
Operator : ericp
Sample : FA33788-8MS MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 13 07:35:37 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration



# Manual Integration Approval Summary



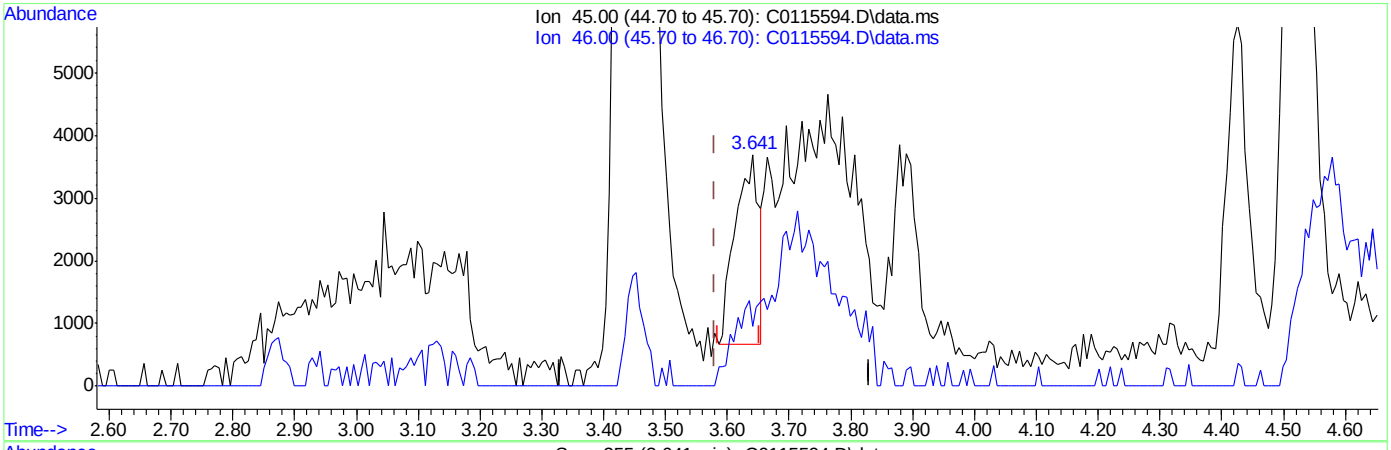
| | | | |
|---|---|---|---|
| **Sample Number:** | FA33788-8MS | **Method:** | SW846 8260C |
| **Lab FileID:** | C0115594.D | **Analyst approved:** | 05/16/16 10:08 Eric Parrish |
| **Injection Time:** | 05/12/16 18:24 | **Supervisor approved:** | 05/16/16 11:38 Juan Garcia |

| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Ethyl Alcohol | 64-17-5 | | 3.76 | Split peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115594.D
Acq On : 12 May 2016 6:24 pm
Operator : ericp
Sample : FA33788-8MS MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 13 07:35:12 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration




TIC: C0115594.D\data.ms

(104) Ethanol

3.641min (+0.061) 419.63ug/Kg

response 7870

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 21.58 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

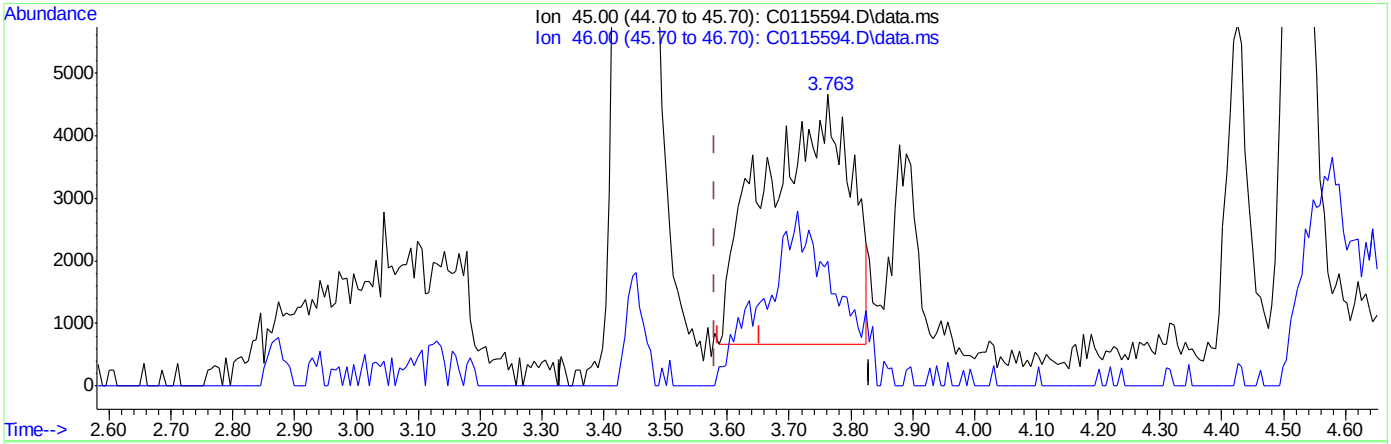


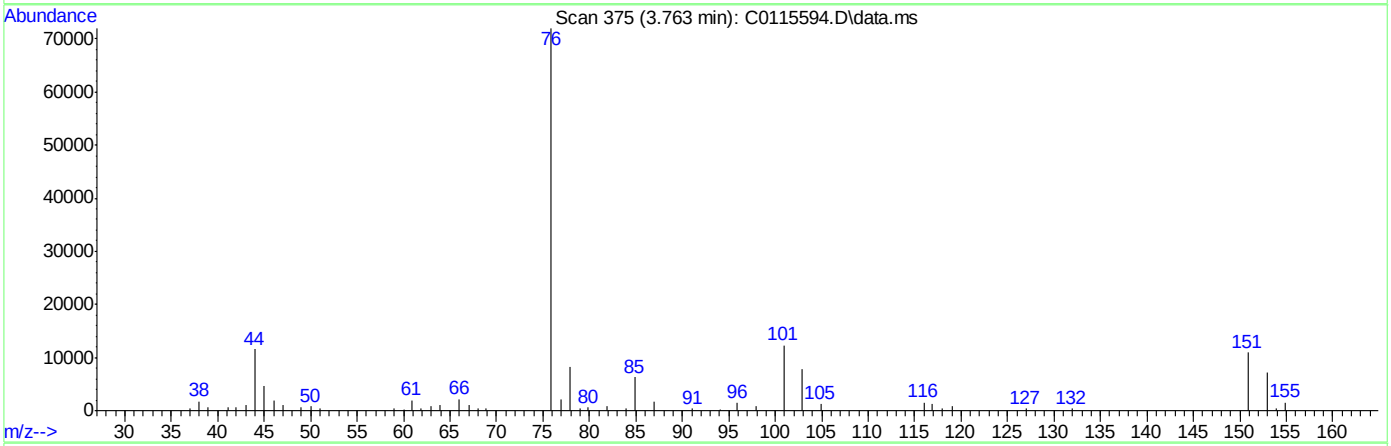
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115594.D
Acq On : 12 May 2016 6:24 pm
Operator : ericp
Sample : FA33788-8MS MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 13 07:35:12 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration




TIC: C0115594.D\data.ms

(104) Ethanol

3.763min (+0.182) 1991.17ug/Kg m

response 37344

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 42.98 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/16/16 11:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115595.D
Acq On : 12 May 2016 6:50 pm
Operator : ericp
Sample : FA33788-8MSD MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 13 07:36:20 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 6.884 | 96 | 1457986 | 50.00 | ug/Kg | 0.00 |
| 54) Chlorobenzene-d5 | 10.004 | 117 | 1026947 | 50.00 | ug/Kg | 0.00 |
| 76) 1,4-Dichlorobenzene-d4 | 12.371 | 152 | 518562 | 50.00 | ug/Kg | 0.00 |
| 103) Tert Butyl Alcohol-d10 | 4.547 | 65 | 73669 | 250.00 | ug/Kg | 0.02 |
| System Monitoring Compounds | | | | | | |
| 35) Dibromofluoromethane | 6.056 | 113 | 398072 | 46.68 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 93.36% | | | |
| 44) 1,2-Dichloroethane-d4 | 6.616 | 65 | 398857 | 41.22 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 72 - 135 | | Recovery = 82.44% | | | |
| 55) Toluene-d8 | 8.453 | 98 | 1452397 | 48.72 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 126 | | Recovery = 97.44% | | | |
| 77) 4-Bromofluorobenzene | 11.227 | 174 | 368576 | 54.63 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 71 - 133 | | Recovery = 109.26% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.224 | 85 | 681706 | 41.43 | ug/Kg | 97 |
| 3) Chloromethane | 2.412 | 50 | 767207 | 49.48 | ug/Kg | 99 |
| 4) Vinyl Chloride | 2.528 | 62 | 642682 | 49.51 | ug/Kg | 99 |
| 5) Bromomethane | 2.868 | 94 | 170962 | 30.73 | ug/Kg | 96 |
| 6) Chloroethane | 3.002 | 64 | 85855 | 17.61 | ug/Kg | 89 |
| 7) Trichlorofluoromethane | 3.173 | 101 | 247276 | 14.86 | ug/Kg | 99 |
| 8) Ethyl Ether | 3.446 | 59 | 221298 | 33.76 | ug/Kg | 92 |
| 9) 1,2-Dichlorotrifluoroe... | 3.665 | 67 | 377478 | 36.43 | ug/Kg | 95 |
| 10) 1,1-Dichloroethene | 3.653 | 61 | 536281 | 35.71 | ug/Kg | 92 |
| 11) Freon 113 | 3.714 | 101 | 333254 | 35.80 | ug/Kg | 94 |
| 12) Carbon Disulfide | 3.702 | 76 | 987246 | 33.86 | ug/Kg | 89 |
| 13) Iodomethane | 3.817 | 142 | 680296 | 40.82 | ug/Kg | 84 |
| 14) Allyl chloride | 4.140 | 41 | 392612 | 29.73 | ug/Kg | 82 |
| 15) Methylene Chloride | 4.255 | 49 | 410470 | 36.34 | ug/Kg | 91 |
| 16) Acetone | 4.316 | 43 | 289260 | 147.68 | ug/Kg | 87 |
| 17) Methyl acetate | 4.420 | 43 | 917365 | 255.41 | ug/Kg | 95 |
| 18) trans-1,2-Dichloroethene | 4.414 | 61 | 513763 | 41.55 | ug/Kg | 94 |
| 19) Hexane | 4.468 | 56 | 235213 | 35.12 | ug/Kg# | 82 |
| 20) Methyl Tert Butyl Ether | 4.517 | 73 | 973570 | 40.52 | ug/Kg | 92 |
| 21) Acetonitrile | 4.797 | 41 | 177312 | 321.45 | ug/Kg | 96 |
| 22) Di-isopropyl ether | 4.888 | 45 | 1113934 | 46.01 | ug/Kg | 95 |
| 23) Chloroprene | 5.010 | 53 | 665204 | 38.27 | ug/Kg | 85 |
| 24) 1,1-Dichloroethane | 5.046 | 63 | 761353 | 47.04 | ug/Kg | 96 |
| 25) Acrylonitrile | 5.107 | 52 | 399501 | 227.77 | ug/Kg | 93 |
| 26) ETBE | 5.253 | 59 | 1150902 | 45.48 | ug/Kg | 95 |
| 27) Vinyl acetate | 5.277 | 43 | 2219685 | 196.74 | ug/Kg | 94 |
| 28) cis-1,2-Dichloroethene | 5.594 | 96 | 542932 | 47.94 | ug/Kg | 93 |
| 29) 2,2-Dichloropropane | 5.703 | 77 | 456290 | 39.71 | ug/Kg | 94 |
| 30) Bromochloromethane | 5.801 | 128 | 242398 | 48.14 | ug/Kg | 92 |
| 31) Cyclohexane | 5.801 | 84 | 677007 | 44.50 | ug/Kg | 94 |
| 32) Chloroform | 5.868 | 83 | 828026 | 45.94 | ug/Kg | 97 |
| 33) Ethyl acetate | 5.971 | 43 | 980409 | 219.12 | ug/Kg | 98 |
| 34) Tetrahydrofuran | 6.050 | 42 | 63181 | 49.20 | ug/Kg | 88 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115595.D
Acq On : 12 May 2016 6:50 pm
Operator : ericp
Sample : FA33788-8MSD MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 13 07:36:20 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) | Carbon Tetrachloride | 6.014 | 117 | 738269 | 41.57 | ug/Kg | 99 |
| 37) | 1,1,1-Trichloroethane | 6.093 | 97 | 662023 | 39.30 | ug/Kg | 96 |
| 38) | 2-Butanone | 6.190 | 43 | 506398 | 195.76 | ug/Kg | 89 |
| 39) | 1,1-Dichloropropene | 6.208 | 75 | 627143 | 47.51 | ug/Kg | 89 |
| 40) | Propionitrile | 6.506 | 54 | 332287 | 428.94 | ug/Kg | 96 |
| 41) | Methacrylonitrile | 6.525 | 41 | 1333474 | 418.48 | ug/Kg | 93 |
| 42) | Benzene | 6.470 | 78 | 1705732 | 47.95 | ug/Kg | 92 |
| 43) | TAME | 6.561 | 73 | 1022924 | 45.37 | ug/Kg | 93 |
| 45) | 1,2-Dichloroethane | 6.683 | 62 | 531656 | 42.56 | ug/Kg | 94 |
| 46) | Trichloroethene | 7.054 | 95 | 458464 | 47.08 | ug/Kg | 97 |
| 47) | Methylcyclohexane | 7.048 | 83 | 737714 | 45.87 | ug/Kg | 98 |
| 48) | Dibromomethane | 7.492 | 93 | 259488 | 46.50 | ug/Kg | 93 |
| 49) | 1,2-Dichloropropane | 7.589 | 63 | 377236 | 45.92 | ug/Kg | 77 |
| 50) | Bromodichloromethane | 7.644 | 83 | 564309 | 46.17 | ug/Kg | 96 |
| 51) | Methyl methacrylate | 7.772 | 41 | 206509 | 50.58 | ug/Kg | 88 |
| 52) | 2-Chloroethyl vinyl ether | 8.192 | 63 | 781913 | 242.64 | ug/Kg | 93 |
| 53) | cis-1,3-Dichloropropene | 8.271 | 75 | 626674 | 54.85 | ug/Kg | 87 |
| 56) | Toluene | 8.502 | 91 | 1694554 | 48.78 | ug/Kg | 96 |
| 57) | 2-Nitropropane | 8.745 | 41 | 335664 | 189.90 | ug/Kg | 94 |
| 58) | 4-Methyl-2-pentanone | 8.873 | 43 | 1254263 | 210.73 | ug/Kg | 93 |
| 59) | trans-1,3-Dichloropropene | 8.915 | 75 | 448132 | 52.35 | ug/Kg | 85 |
| 60) | Tetrachloroethene | 8.891 | 166 | 478324 | 54.71 | ug/Kg | 98 |
| 61) | Ethyl methacrylate | 9.043 | 69 | 302826 | 41.93 | ug/Kg | 93 |
| 62) | 1,1,2-Trichloroethane | 9.080 | 83 | 267586 | 48.54 | ug/Kg | 92 |
| 63) | Dibromochloromethane | 9.262 | 129 | 387391 | 50.77 | ug/Kg | 93 |
| 64) | 1,3-Dichloropropane | 9.360 | 76 | 483787 | 48.41 | ug/Kg | 90 |
| 65) | 1,2-Dibromoethane | 9.512 | 107 | 291626 | 49.88 | ug/Kg | 97 |
| 66) | 2-hexanone | 9.700 | 43 | 667180 | 188.33 | ug/Kg | 94 |
| 67) | 1-Chlorohexane | 9.974 | 91 | 521997 | 47.50 | ug/Kg | 89 |
| 68) | Ethylbenzene | 10.035 | 91 | 1756621 | 48.23 | ug/Kg | 92 |
| 69) | Chlorobenzene | 10.023 | 112 | 1021190 | 49.78 | ug/Kg | 94 |
| 70) | 1,1,1,2-Tetrachloroethane | 10.084 | 131 | 471031 | 49.80 | ug/Kg | 89 |
| 71) | m,p-Xylene | 10.175 | 91 | 2614087 | 98.42 | ug/Kg | 90 |
| 72) | o-Xylene | 10.613 | 91 | 1649970 | 47.72 | ug/Kg | 92 |
| 73) | Styrene | 10.668 | 104 | 1038132 | 51.41 | ug/Kg | 94 |
| 74) | Bromoform | 10.716 | 173 | 188002 | 50.59 | ug/Kg | 96 |
| 75) | Isopropylbenzene | 10.923 | 105 | 1982139 | 49.10 | ug/Kg | 95 |
| 78) | cis-1,4-Dichloro-2-butene | 11.288 | 53 | 59442 | 34.71 | ug/Kg# | 78 |
| 79) | n-Propylbenzene | 11.343 | 91 | 2030484 | 43.63 | ug/Kg | 94 |
| 80) | Bromobenzene | 11.343 | 156 | 425559 | 51.66 | ug/Kg | 99 |
| 81) | 1,1,2,2-Tetrachloroethane | 11.422 | 83 | 414366 | 44.53 | ug/Kg | 98 |
| 82) | 1,3,5-Trimethylbenzene | 11.531 | 105 | 1614215 | 43.80 | ug/Kg | 93 |
| 83) | 2-Chlorotoluene | 11.519 | 91 | 1490366 | 47.79 | ug/Kg | 97 |
| 84) | trans-1,4-Dichloro-2-B... | 11.604 | 53 | 60770 | 40.69 | ug/Kg# | 73 |
| 85) | 1,2,3-Trichloropropane | 11.574 | 110 | 109190 | 44.65 | ug/Kg | 97 |
| 86) | Cyclohexanone | 11.635 | 55 | 52765 | 205.84 | ug/Kg | 96 |
| 87) | 4-Chlorotoluene | 11.690 | 91 | 1241656 | 48.51 | ug/Kg | 96 |
| 88) | tert-Butylbenzene | 11.866 | 91 | 1057637 | 41.71 | ug/Kg | 88 |
| 89) | 1,2,4-Trimethylbenzene | 11.939 | 105 | 1585695 | 43.53 | ug/Kg | 93 |
| 90) | Pentachloroethane | 11.909 | 167 | 266081 | 47.68 | ug/Kg | 91 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115595.D
Acq On : 12 May 2016 6:50 pm
Operator : ericp
Sample : FA33788-8MSD MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 13 07:36:20 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

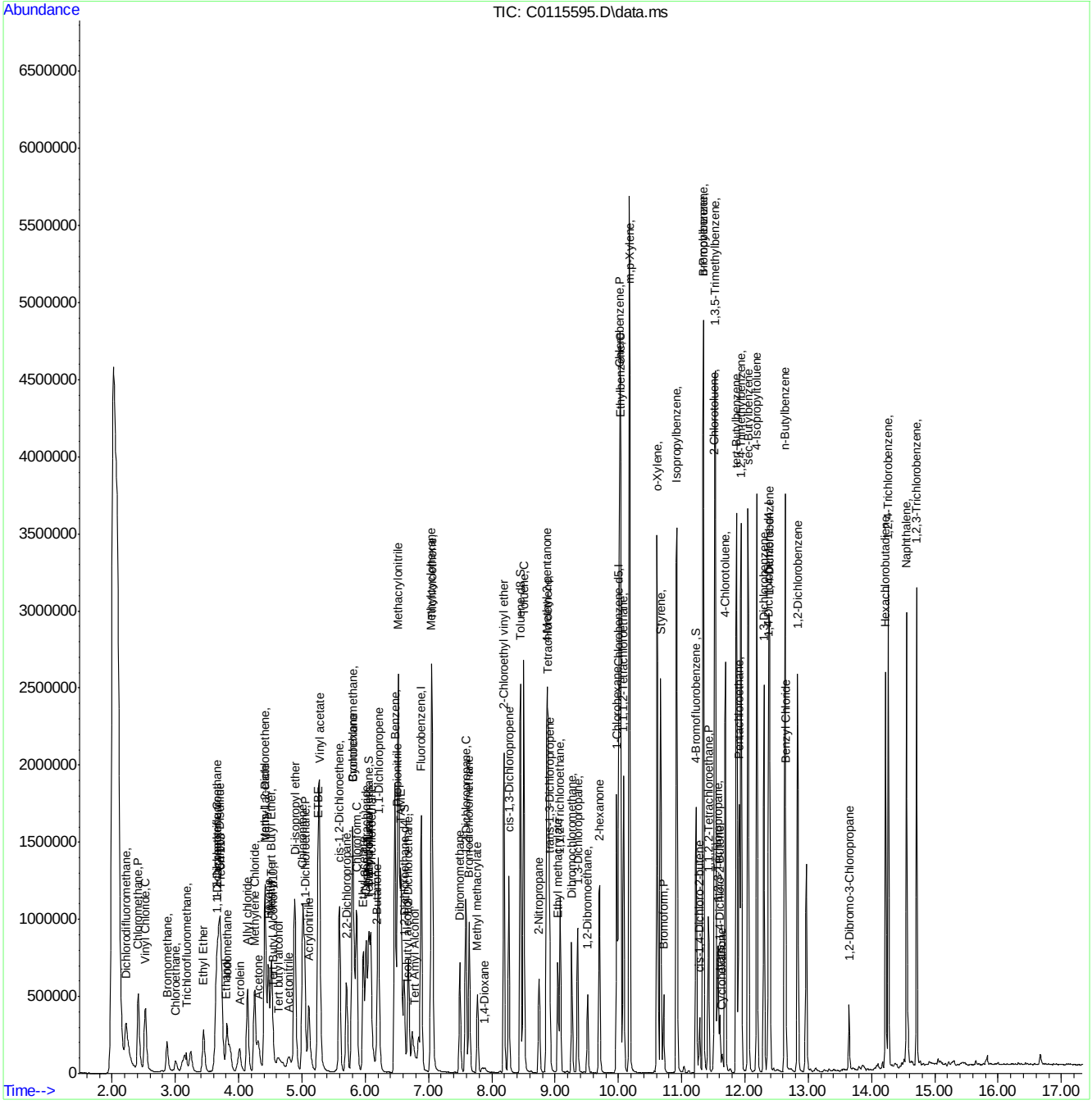
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 91) | sec-Butylbenzene | 12.049 | 105 | 2095297 | 46.37 | ug/Kg | 99 |
| 92) | 4-Isopropyltoluene | 12.188 | 119 | 1731491 | 44.55 | ug/Kg | 97 |
| 93) | 1,3-Dichlorobenzene | 12.298 | 146 | 840987 | 51.63 | ug/Kg | 97 |
| 94) | 1,4-Dichlorobenzene | 12.389 | 146 | 809878 | 51.58 | ug/Kg | 96 |
| 95) | n-Butylbenzene | 12.633 | 92 | 933607 | 44.38 | ug/Kg | 95 |
| 96) | Benzyl Chloride | 12.645 | 126 | 139961 | 44.18 | ug/Kg# | 51 |
| 97) | 1,2-Dichlorobenzene | 12.833 | 146 | 870677 | 52.39 | ug/Kg | 98 |
| 98) | 1,2-Dibromo-3-Chloropr... | 13.642 | 75 | 81104 | 37.39 | ug/Kg | 94 |
| 99) | Hexachlorobutadiene | 14.220 | 225 | 337895 | 46.08 | ug/Kg | 94 |
| 100) | 1,2,4-Trichlorobenzene | 14.263 | 180 | 640429 | 53.82 | ug/Kg | 98 |
| 101) | Naphthalene | 14.555 | 128 | 1584014 | 51.20 | ug/Kg | 97 |
| 102) | 1,2,3-Trichlorobenzene | 14.713 | 180 | 638767 | 52.33 | ug/Kg | 96 |
| 104) | Ethanol | 3.799 | 45 | 36716m | 1668.45 | ug/Kg | |
| 105) | Acrolein | 4.018 | 56 | 183464 | 397.10 | ug/Kg | 94 |
| 106) | Tert butyl alcohol | 4.633 | 59 | 248922 | 664.33 | ug/Kg | 78 |
| 107) | Isobutyl alcohol | 6.665 | 42 | 51139 | 712.06 | ug/Kg | 81 |
| 108) | Tert Amyl Alcohol | 6.774 | 59 | 134607 | 479.03 | ug/Kg | 95 |
| 109) | 1,4-Dioxane | 7.887 | 88 | 58488 | 1911.00 | ug/Kg | 89 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115595.D
Acq On : 12 May 2016 6:50 pm
Operator : ericp
Sample : FA33788-8MSD MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 13 07:36:20 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration










SGS ACCUTEST FA33878

# Manual Integration Approval Summary



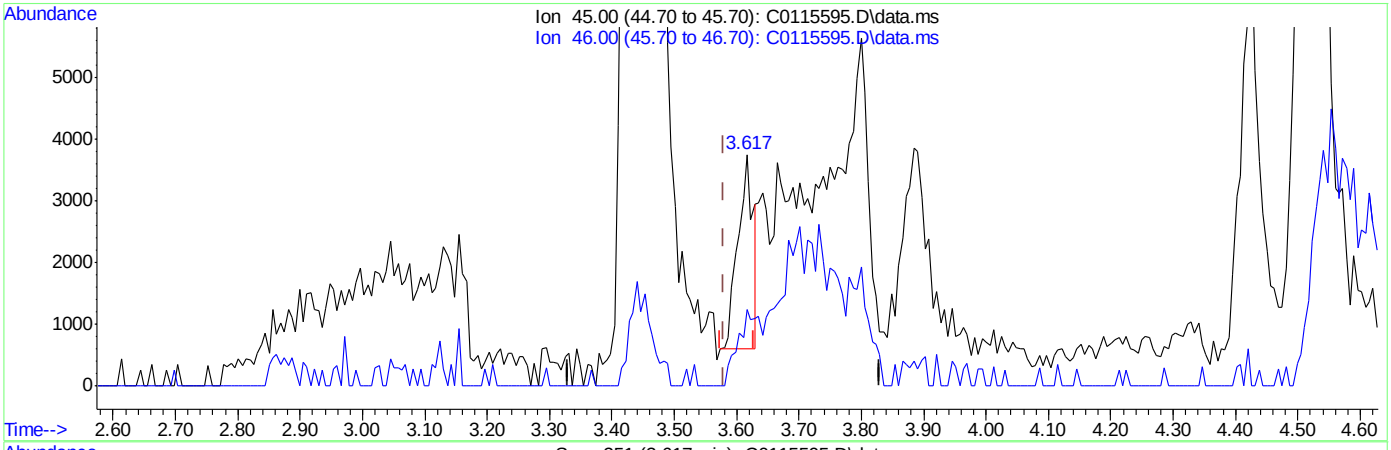
| | | | |
|---|---|---|---|
| **Sample Number:** | FA33788-8MSD | **Method:** | SW846 8260C |
| **Lab FileID:** | C0115595.D | **Analyst approved:** | 05/16/16 10:08 Eric Parrish |
| **Injection Time:** | 05/12/16 18:50 | **Supervisor approved:** | 05/16/16 11:38 Juan Garcia |

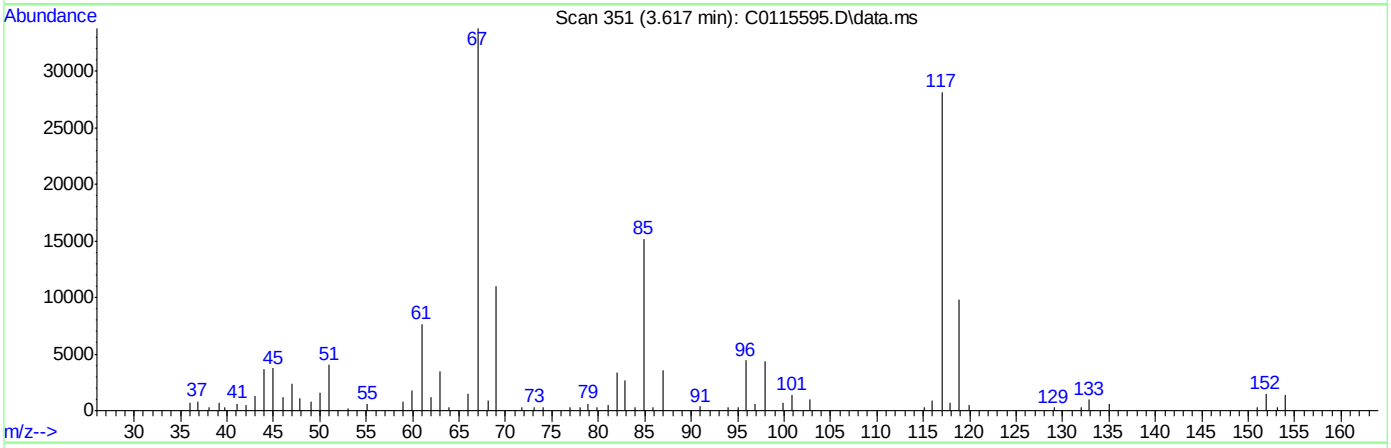
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Ethyl Alcohol | 64-17-5 | | 3.80 | Split peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115595.D
Acq On : 12 May 2016 6:50 pm
Operator : ericp
Sample : FA33788-8MSD MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 13 07:35:57 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration




TIC: C0115595.D\data.ms

(104) Ethanol

3.617min (+0.036) 243.43ug/Kg

response 5357

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 39.18 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

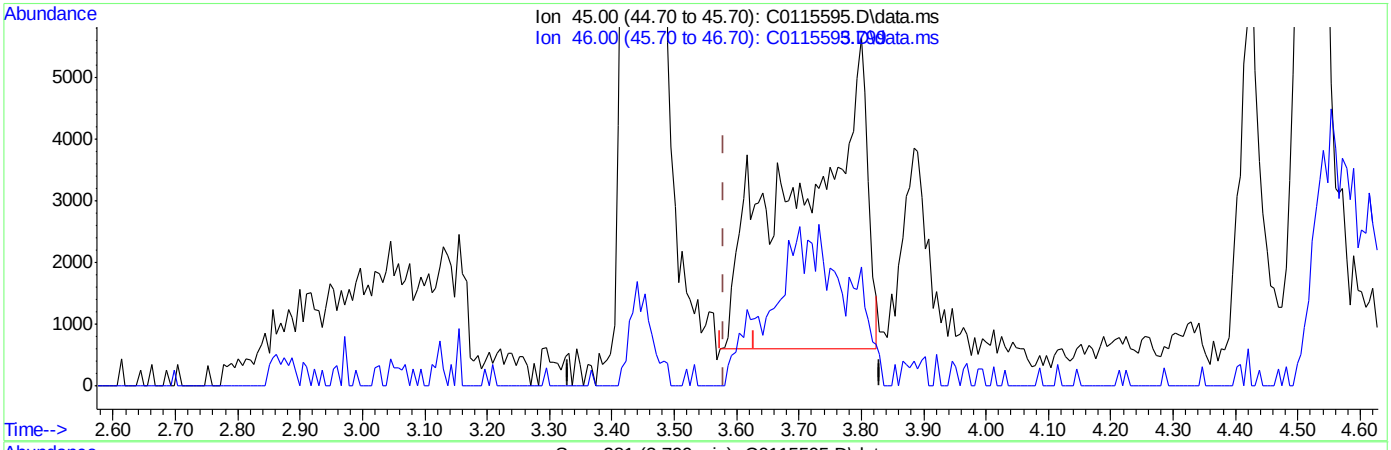


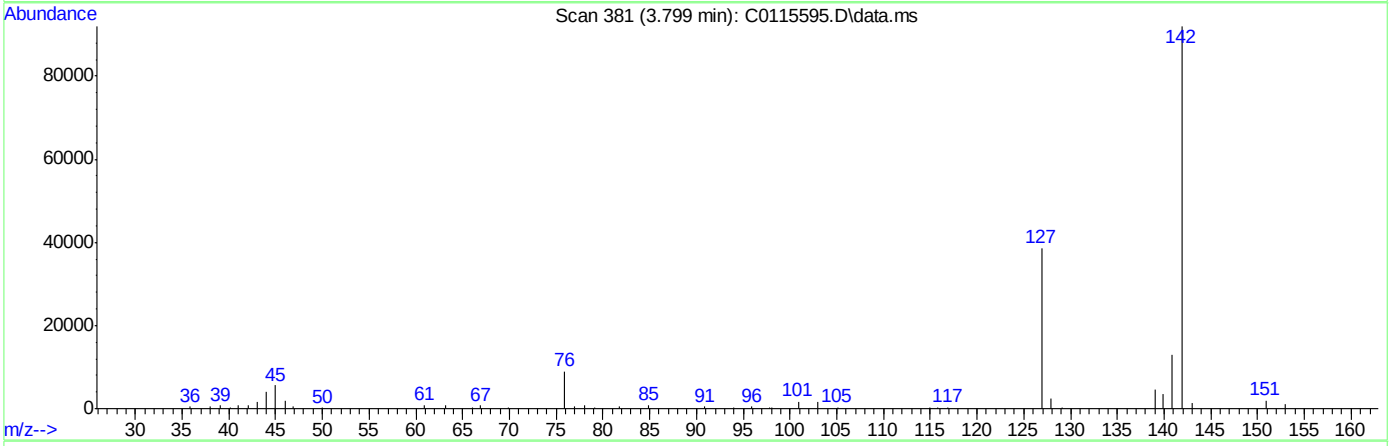
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115595.D
Acq On : 12 May 2016 6:50 pm
Operator : ericp
Sample : FA33788-8MSD MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 13 07:35:57 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration




(104) Ethanol

3.799min (+0.219) 1668.45ug/Kg m

response 36716

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 34.20 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/16/16 11:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976488.D
Acq On : 13 May 2016 5:09 pm
Operator : darshnap
Sample : fa33919-5ms ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 09:00:22 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1245046 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 996773 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.207 | 152 | 562154 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.304 | 65 | 78527 | 250.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 36) Dibromofluoromethane | 6.929 | 113 | 308398 | 49.44 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 98.88% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.482 | 65 | 367785 | 50.43 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 100.86% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1251402 | 48.75 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 97.50% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 507101 | 49.47 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 98.94% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.688 | 85 | 138673 | 28.43 | ug/L | 99 |
| 3) Chloromethane | 2.901 | 50 | 177574 | 27.89 | ug/L | 100 |
| 4) Vinyl Chloride | 3.047 | 62 | 196338 | 28.05 | ug/L | 95 |
| 5) 1,3-Butadiene | 3.041 | 54 | 50104 | Below Cal | # | 87 |
| 6) Bromomethane | 3.467 | 94 | 117547 | 26.76 | ug/L | 96 |
| 7) Chloroethane | 3.619 | 64 | 97724 | 31.05 | ug/L | 96 |
| 8) Trichlorofluoromethane | 3.844 | 101 | 268956m | 30.18 | ug/L | |
| 9) Ethyl Ether | 4.124 | 59 | 109019 | 21.98 | ug/L | 97 |
| 10) 1,2-Dichlorotrifluoroe... | 4.355 | 67 | 197407 | 25.97 | ug/L | 97 |
| 11) 1,1-Dichloroethene | 4.398 | 61 | 246596 | 26.86 | ug/L | 97 |
| 12) Freon 113 | 4.465 | 101 | 151212 | 23.82 | ug/L | 98 |
| 13) Carbon Disulfide | 4.477 | 76 | 455986 | 22.20 | ug/L | 99 |
| 14) Iodomethane | 4.592 | 142 | 237151 | 23.27 | ug/L | 98 |
| 15) Allyl chloride | 4.927 | 41 | 170099 | 21.77 | ug/L | 92 |
| 16) Methylene Chloride | 5.049 | 49 | 192221 | 22.84 | ug/L | 98 |
| 17) Acetone | 5.073 | 58 | 39226 | 102.55 | ug/L | 90 |
| 18) Methyl acetate | 5.195 | 74 | 74558 | 103.61 | ug/L # | 92 |
| 19) trans-1,2-Dichloroethene | 5.231 | 61 | 232396 | 27.42 | ug/L | 94 |
| 20) Hexane | 5.298 | 56 | 140282 | 23.76 | ug/L | 99 |
| 21) Methyl Tert Butyl Ether | 5.341 | 73 | 372806 | 20.43 | ug/L | 90 |
| 22) Acetonitrile | 5.590 | 40 | 57491 | 245.94 | ug/L # | 85 |
| 23) Di-isopropyl ether | 5.718 | 45 | 426784 | 21.10 | ug/L | 98 |
| 24) Chloroprene | 5.870 | 53 | 216199 | 26.39 | ug/L | 99 |
| 25) 1,1-Dichloroethane | 5.894 | 63 | 293408 | 25.58 | ug/L | 99 |
| 26) Acrylonitrile | 5.925 | 53 | 184316 | 121.61 | ug/L | 97 |
| 27) ETBE | 6.113 | 59 | 447394 | 21.61 | ug/L | 97 |
| 28) Vinyl acetate | 6.107 | 43 | 1065522 | 114.46 | ug/L | 99 |
| 29) cis-1,2-Dichloroethene | 6.478 | 96 | 164540 | 22.55 | ug/L | 93 |
| 30) 2,2-Dichloropropane | 6.606 | 77 | 213633 | 22.36 | ug/L | 98 |
| 31) Bromochloromethane | 6.685 | 128 | 71746 | 20.88 | ug/L | 94 |
| 32) Cyclohexane | 6.734 | 56 | 265624 | 24.79 | ug/L | 99 |
| 33) Chloroform | 6.740 | 83 | 300542 | 23.92 | ug/L | 99 |
| 34) Ethyl acetate | 6.807 | 43 | 409774 | 118.62 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976488.D
Acq On : 13 May 2016 5:09 pm
Operator : darshnap
Sample : fa33919-5ms ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 09:00:22 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) Tetrahydrofuran | 6.922 | 42 | 23468 | 22.37 ug/L | 99 |
| 37) Carbon Tetrachloride | 6.935 | 117 | 236015m | 24.28 ug/L | |
| 38) 1,1,1-Trichloroethane | 6.995 | 97 | 260398 | 23.24 ug/L | 98 |
| 39) 2-Butanone | 7.026 | 43 | 182212 | 111.08 ug/L | 96 |
| 40) 1,1-Dichloropropene | 7.105 | 75 | 210062 | 24.08 ug/L | 98 |
| 41) tert-Butyl Formate | 7.190 | 59 | 89026 | 21.53 ug/L # | 83 |
| 42) Propionitrile | 7.336 | 54 | 141739 | 255.60 ug/L | 96 |
| 43) Methacrylonitrile | 7.360 | 41 | 619628 | 268.18 ug/L | 98 |
| 44) Benzene | 7.360 | 78 | 671446 | 24.02 ug/L | 94 |
| 45) TAME | 7.433 | 73 | 383902 | 20.07 ug/L | 94 |
| 47) 1,2-Dichloroethane | 7.549 | 62 | 210517 | 23.39 ug/L | 98 |
| 48) Trichloroethene | 7.938 | 95 | 172826 | 24.66 ug/L | 94 |
| 49) Methylcyclohexane | 7.957 | 83 | 311914 | 25.89 ug/L | 97 |
| 50) Dibromomethane | 8.364 | 93 | 87311 | 22.34 ug/L | 98 |
| 51) 1,2-Dichloropropane | 8.449 | 63 | 152786 | 22.40 ug/L | 98 |
| 52) Bromodichloromethane | 8.498 | 83 | 203014 | 22.47 ug/L | 100 |
| 53) Methyl methacrylate | 8.595 | 41 | 86400 | 25.47 ug/L | 96 |
| 55) cis-1,3-Dichloropropene | 9.113 | 75 | 215942 | 20.71 ug/L | 99 |
| 58) Toluene | 9.356 | 91 | 708405 | 23.58 ug/L | 99 |
| 59) 2-Nitropropane | 9.557 | 41 | 115598 | 105.17 ug/L | 97 |
| 60) 4-Methyl-2-pentanone | 9.672 | 43 | 473676 | 106.53 ug/L | 99 |
| 61) trans-1,3-Dichloropropene | 9.739 | 75 | 208579 | 22.88 ug/L | 97 |
| 62) Tetrachloroethene | 9.757 | 166 | 180144 | 24.14 ug/L | 98 |
| 63) Ethyl methacrylate | 9.843 | 69 | 134657 | 20.10 ug/L | 98 |
| 64) 1,1,2-Trichloroethane | 9.903 | 83 | 109515 | 22.30 ug/L | 98 |
| 65) Dibromochloromethane | 10.104 | 129 | 131972 | 20.16 ug/L | 98 |
| 66) 1,3-Dichloropropane | 10.183 | 76 | 211758 | 21.21 ug/L | 96 |
| 67) 1,2-Dibromoethane | 10.366 | 107 | 123224 | 21.96 ug/L | 95 |
| 68) 2-hexanone | 10.487 | 43 | 325528 | 109.33 ug/L | 98 |
| 69) 1-Chlorohexane | 10.798 | 91 | 221688 | 25.01 ug/L | 98 |
| 70) Ethylbenzene | 10.859 | 91 | 1066271 | 30.37 ug/L | 97 |
| 71) Chlorobenzene | 10.865 | 112 | 489550 | 23.85 ug/L | 93 |
| 72) 1,1,1,2-Tetrachloroethane | 10.913 | 131 | 160161 | 23.67 ug/L | 96 |
| 73) m,p-Xylene | 10.998 | 91 | 1700470 | 64.49 ug/L | 97 |
| 74) o-Xylene | 11.436 | 91 | 668794 | 25.00 ug/L | 99 |
| 75) Styrene | 11.485 | 104 | 475791 | 23.05 ug/L | 99 |
| 76) Bromoform | 11.552 | 173 | 73413 | 17.44 ug/L | 97 |
| 77) Isopropylbenzene | 11.741 | 105 | 831019 | 25.18 ug/L | 98 |
| 80) cis-1,4-Dichloro-2-butene | 12.087 | 53 | 23195 | 13.58 ug/L | 92 |
| 81) n-Propylbenzene | 12.160 | 91 | 1014714 | 24.79 ug/L | 96 |
| 82) Bromobenzene | 12.185 | 156 | 208859 | 22.64 ug/L | 93 |
| 83) 1,1,2,2-Tetrachloroethane | 12.221 | 83 | 163931 | 22.23 ug/L | 99 |
| 84) 1,3,5-Trimethylbenzene | 12.343 | 105 | 717761 | 23.33 ug/L | 98 |
| 85) 2-Chlorotoluene | 12.349 | 91 | 693701 | 23.91 ug/L | 98 |
| 86) trans-1,4-Dichloro-2-B... | 12.404 | 53 | 22738 | 13.99 ug/L # | 78 |
| 87) 1,2,3-Trichloropropane | 12.386 | 110 | 43687 | 22.44 ug/L | 97 |
| 88) Cyclohexanone | 12.446 | 55 | 15760 | 92.10 ug/L | 91 |
| 89) 4-Chlorotoluene | 12.519 | 91 | 623094 | 23.28 ug/L | 99 |
| 90) a-Methyl Styrene | 12.751 | 118 | 7257 | 0.47 ug/L # | 1 |
| 91) tert-Butylbenzene | 12.684 | 91 | 401178 | 23.72 ug/L | 98 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976488.D
Acq On : 13 May 2016 5:09 pm
Operator : darshnap
Sample : fa33919-5ms ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 09:00:22 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 92) | 1,2,4-Trimethylbenzene | 12.751 | 105 | 710728 | 23.13 | ug/L | | 99 |
| 93) | Pentachloroethane | 12.738 | 167 | 135883 | 24.35 | ug/L | | 96 |
| 94) | sec-Butylbenzene | 12.866 | 105 | 912363 | 24.75 | ug/L | | 97 |
| 95) | 4-Isopropyltoluene | 13.000 | 119 | 756446 | 25.72 | ug/L | | 99 |
| 96) | 1,3-Dichlorobenzene | 13.134 | 146 | 374816 | 23.06 | ug/L | | 99 |
| 97) | 1,4-Dichlorobenzene | 13.219 | 146 | 374523 | 22.19 | ug/L | | 98 |
| 98) | n-Butylbenzene | 13.432 | 92 | 414117 | 24.55 | ug/L | | 100 |
| 99) | Benzyl Chloride | 13.450 | 126 | 48000 | 18.17 | ug/L | # | 81 |
| 100) | 1,2-Dichlorobenzene | 13.645 | 146 | 342133 | 22.59 | ug/L | | 99 |
| 101) | 1,2-Dibromo-3-Chloropr... | 14.381 | 75 | 20393 | 21.02 | ug/L | | 97 |
| 102) | Hexachlorobutadiene | 14.928 | 225 | 147610 | 22.88 | ug/L | | 97 |
| 103) | 1,2,4-Trichlorobenzene | 14.971 | 180 | 212565 | 20.61 | ug/L | | 95 |
| 104) | Naphthalene | 15.257 | 128 | 320541 | 21.32 | ug/L | | 98 |
| 105) | 1,2,3-Trichlorobenzene | 15.427 | 180 | 176509 | 20.60 | ug/L | | 97 |
| 107) | Ethanol | 4.264 | 45 | 21005m | 540.94 | ug/L | | |
| 108) | acrolein | 4.763 | 56 | 62628 | 84.58 | ug/L | | 99 |
| 109) | Tert Butyl Alcohol | 5.377 | 59 | 137366 | 352.05 | ug/L | | 89 |
| 110) | tert Amyl alcohol | 7.573 | 59 | 66263 | 208.29 | ug/L | | 93 |
| 111) | Isobutyl alcohol | 7.458 | 42 | 63787 | 453.53 | ug/L | # | 76 |
| 112) | 1,4-Dioxane | 8.675 | 88 | 21891 | 489.05 | ug/L | | 97 |
| 113) | 3,3-Dimethyl-1-butanol | 10.433 | 57 | 388233 | 1116.79 | ug/L | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed



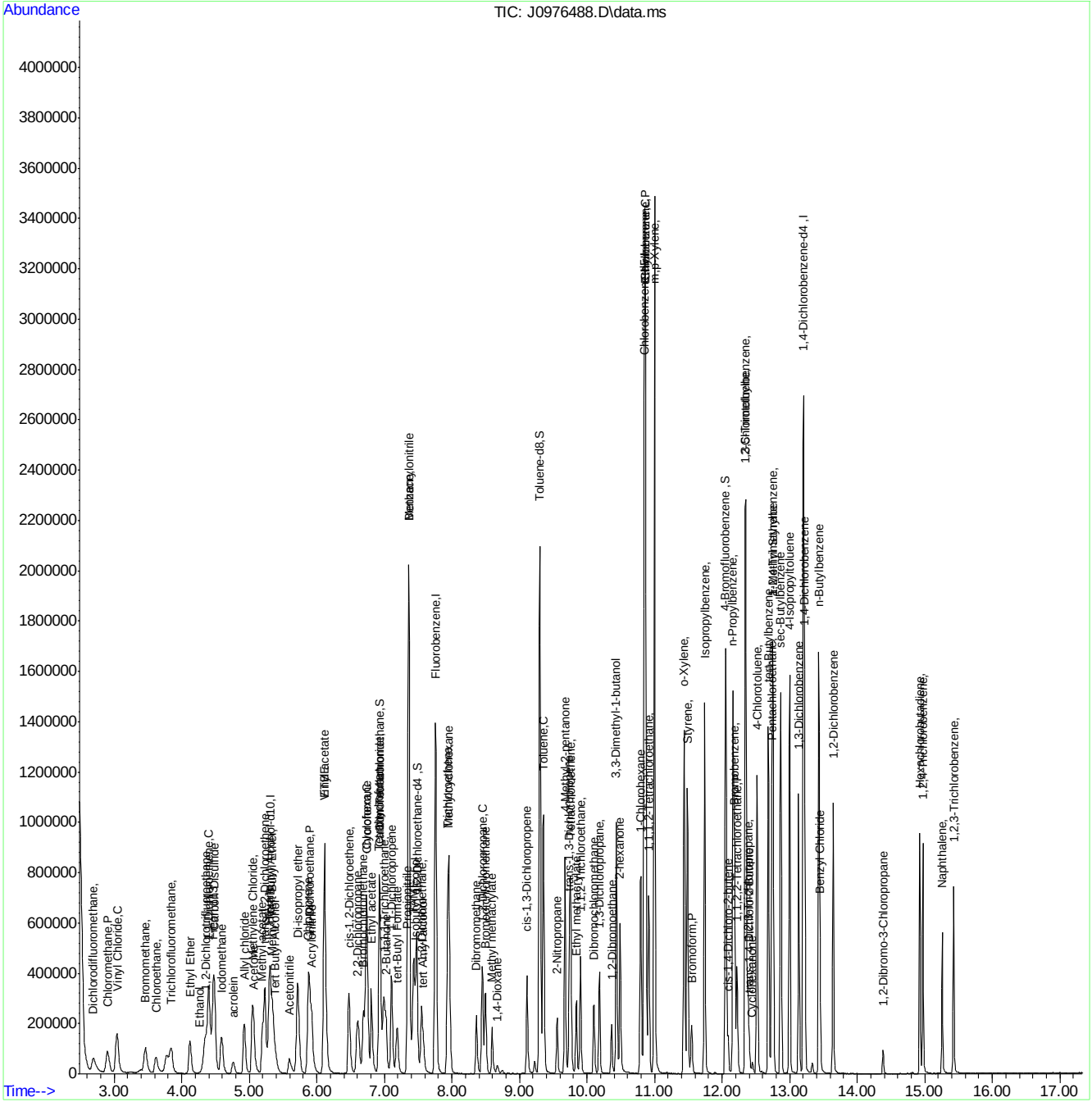


SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976488.D
Acq On : 13 May 2016 5:09 pm
Operator : darshnap
Sample : fa33919-5ms ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 09:00:22 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration










SGS ACCUTEST FA33878

# Manual Integration Approval Summary



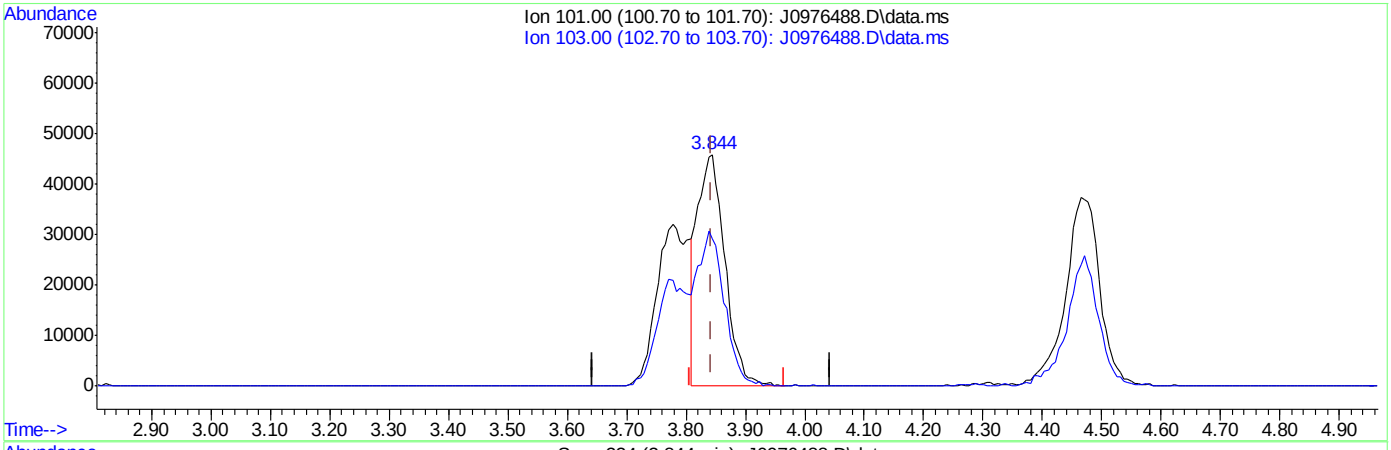
| | | | |
|---|---|---|---|
| **Sample Number:** | FA33919-5MS | **Method:** | SW846 8260C |
| **Lab FileID:** | J0976488.D | **Analyst approved:** | 05/16/16 10:08 Darshna Patel |
| **Injection Time:** | 05/13/16 17:09 | **Supervisor approved:** | 05/16/16 11:06 Juan Garcia |

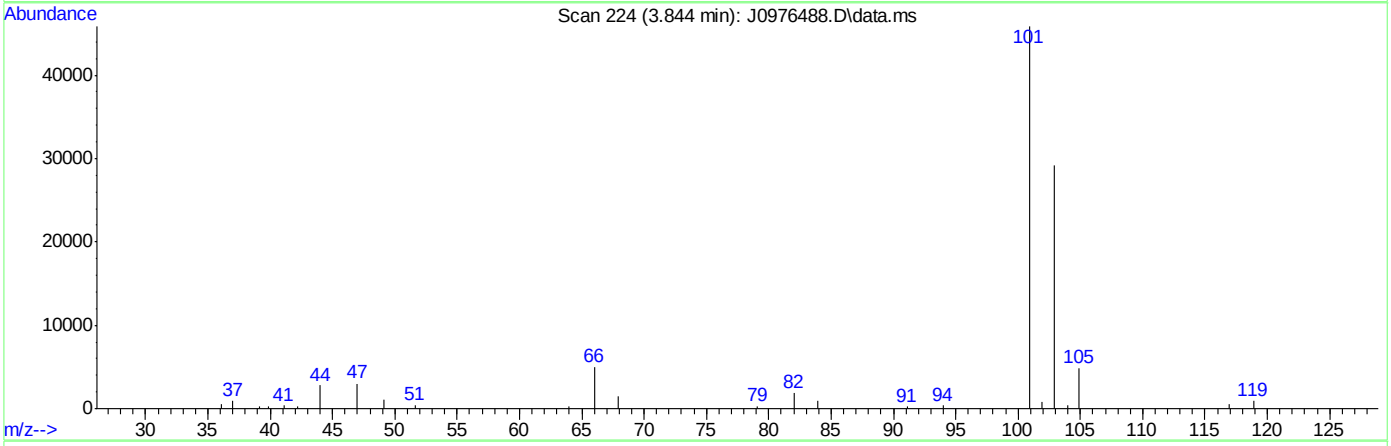
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichlorofluoromethane | 75-69-4 | | 3.84 | Split peak |
| Ethyl Alcohol | 64-17-5 | | 4.26 | Poor instrument integration |
| Carbon Tetrachloride | 56-23-5 | | 6.93 | Overlapping peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976488.D
Acq On : 13 May 2016 5:09 pm
Operator : darshnap
Sample : fa33919-5ms ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 08:47:01 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




TIC: J0976488.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.000) 16.78ug/L

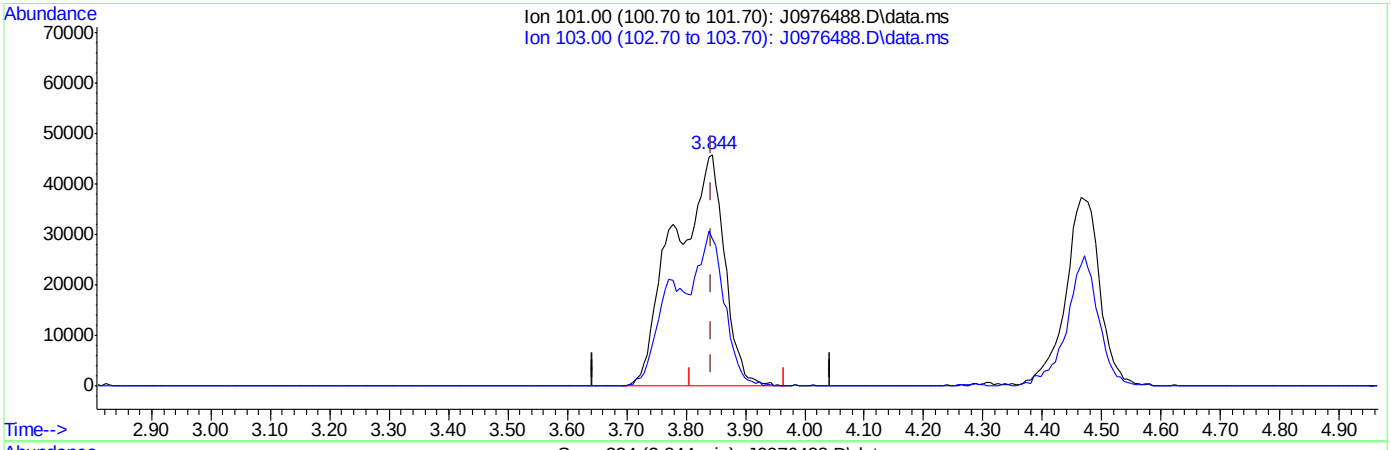
response 149539

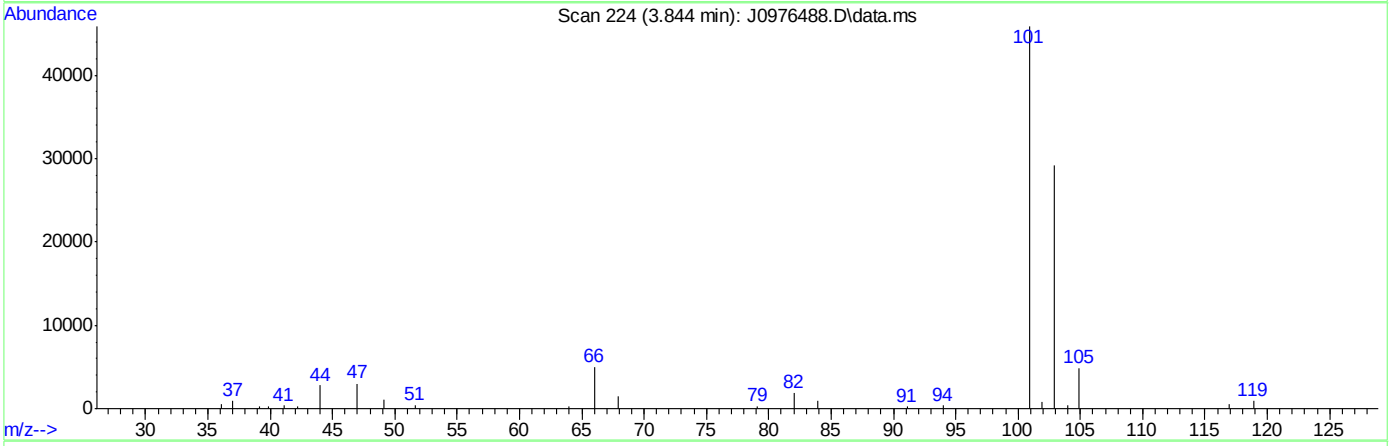
| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 63.56 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976488.D
Acq On : 13 May 2016 5:09 pm
Operator : darshnap
Sample : fa33919-5ms ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 08:47:01 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




TIC: J0976488.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.000) 30.18ug/L m

response 268956

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 63.56 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

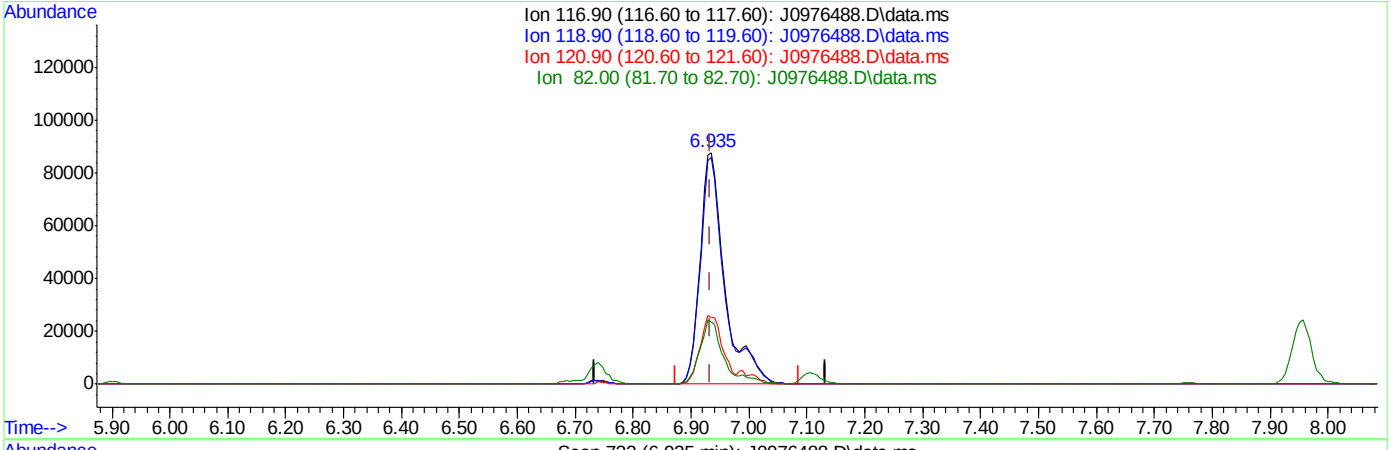


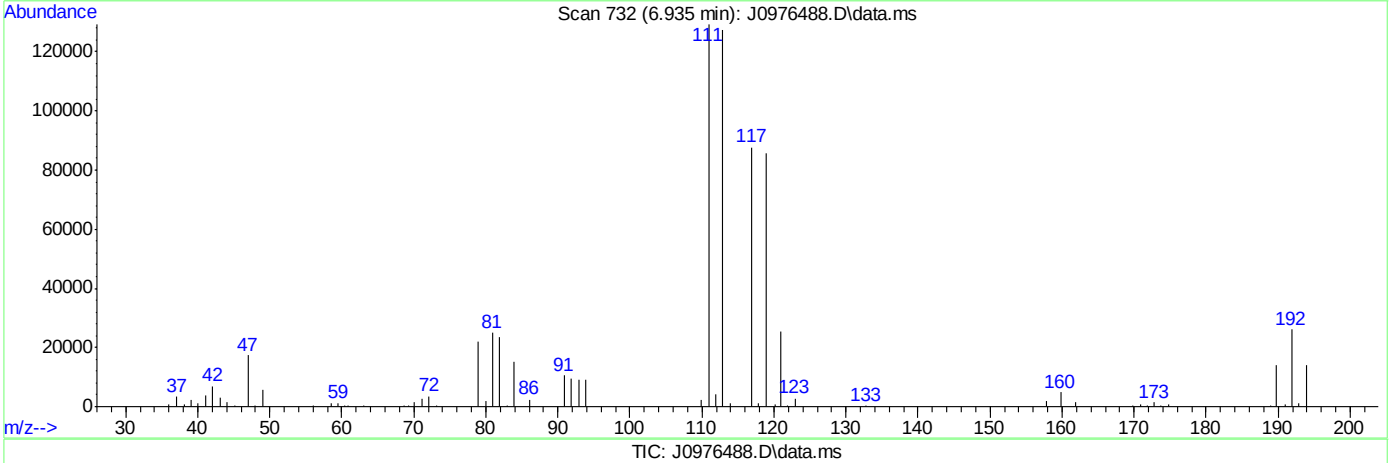
SGS ACCUTEST FA33878

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976488.D
Acq On : 13 May 2016 5:09 pm
Operator : darshnap
Sample : fa33919-5ms ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 08:47:01 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




TIC: J0976488.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 26.95ug/L

response 261927

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 97.68 |
| 120.90 | 31.20 | 28.84 |
| 82.00 | 25.70 | 26.79 |

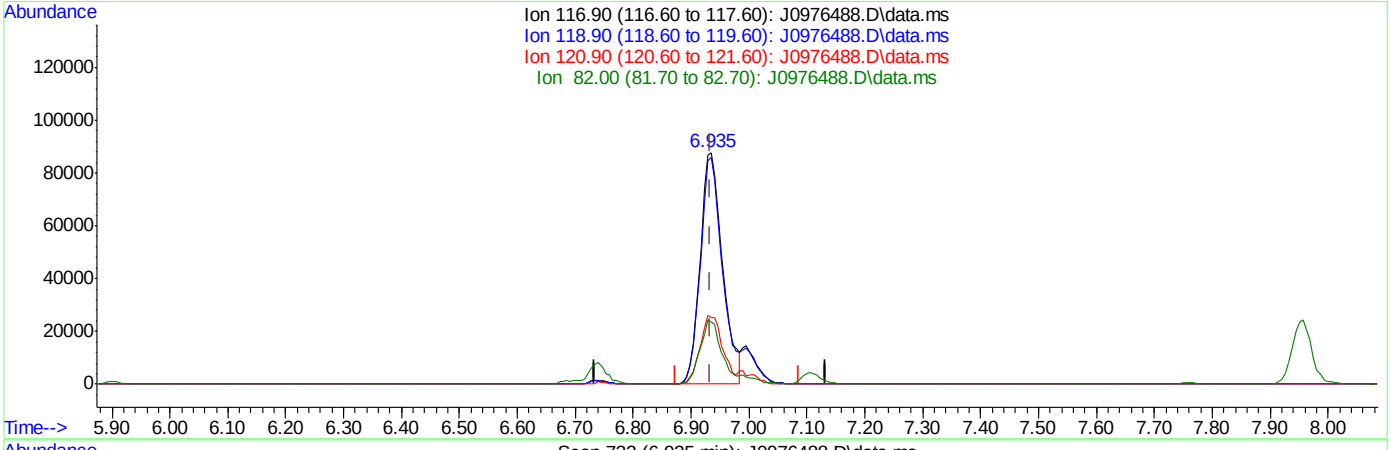


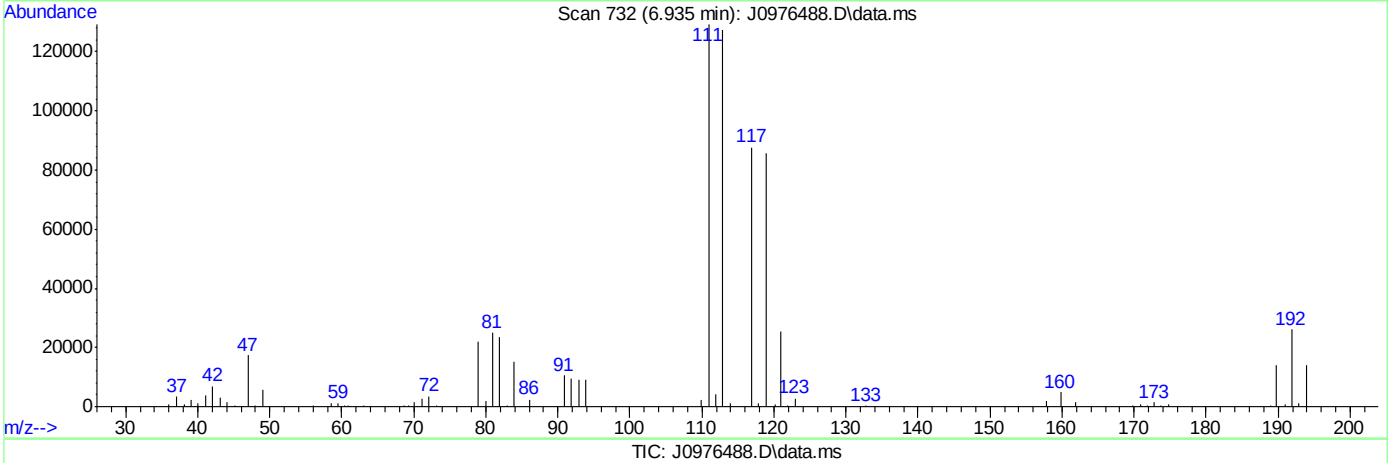
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976488.D
Acq On : 13 May 2016 5:09 pm
Operator : darshnap
Sample : fa33919-5ms ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 08:47:01 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




(37) Carbon Tetrachloride ( )

6.935min (+0.001) 24.28ug/L m

response 236015

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 97.68 |
| 120.90 | 31.20 | 28.84 |
| 82.00 | 25.70 | 26.79 |

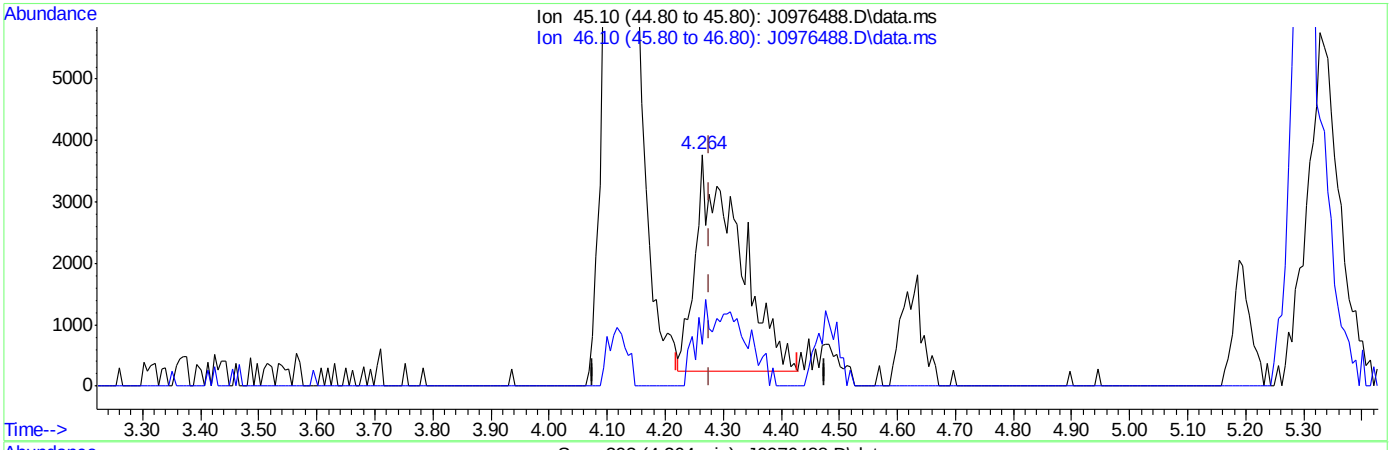


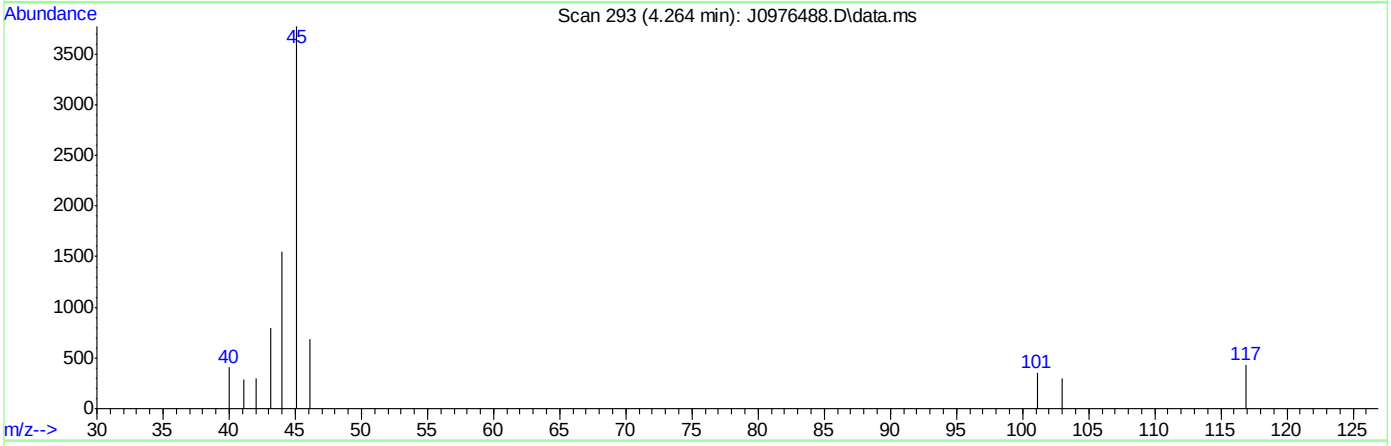
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976488.D
Acq On : 13 May 2016 5:09 pm
Operator : darshnap
Sample : fa33919-5ms ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 08:47:01 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




TIC: J0976488.D\data.ms

(107) Ethanol

4.264min (-0.012) 475.83ug/L

response 18477

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 19.63 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

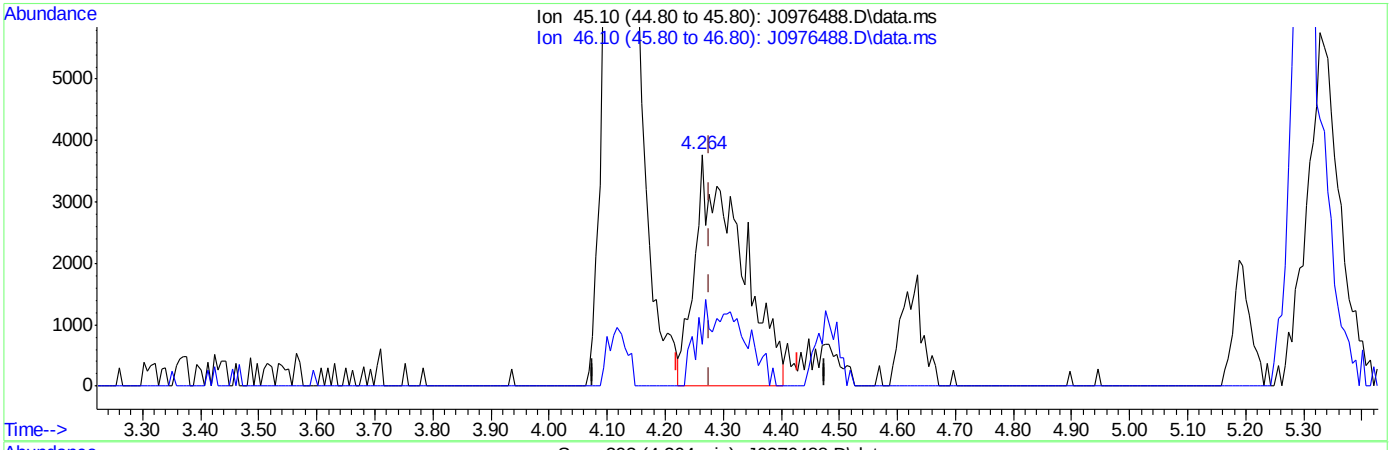


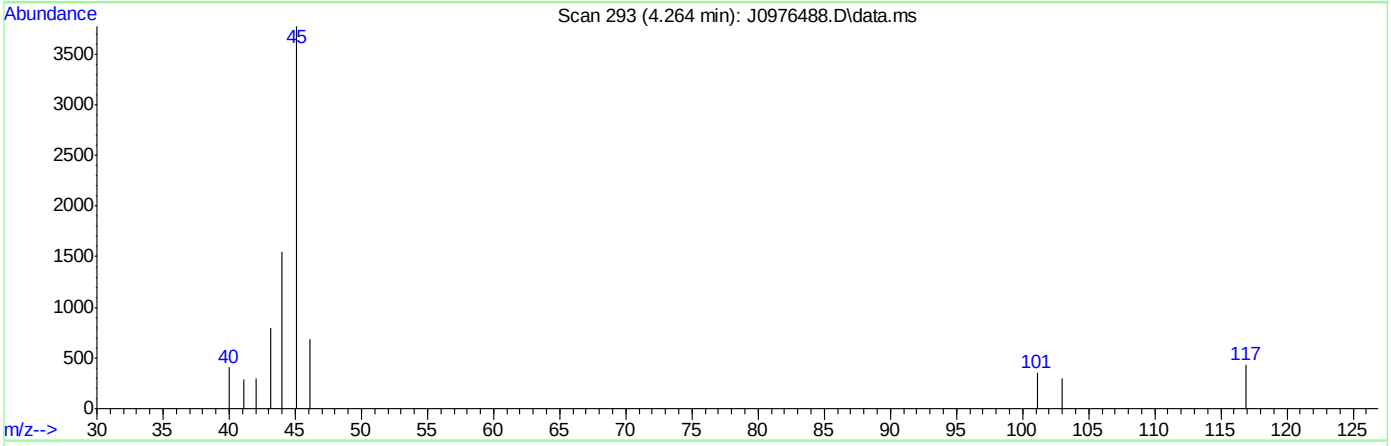
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976488.D
Acq On : 13 May 2016 5:09 pm
Operator : darshnap
Sample : fa33919-5ms ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 08:47:01 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




TIC: J0976488.D\data.ms

(107) Ethanol

4.264min (-0.012) 540.94ug/L m

response 21005

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 18.31 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/16/16 11:06

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976489.D
Acq On : 13 May 2016 5:32 pm
Operator : darshnap
Sample : fa33919-5msd ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 09:01:03 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1319911 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 1044269 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.207 | 152 | 577529 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.292 | 65 | 88678 | 250.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 36) Dibromofluoromethane | 6.922 | 113 | 326146 | 49.32 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 98.64% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 395420 | 51.14 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 102.28% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1337544 | 49.73 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 99.46% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 527880 | 50.13 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 100.26% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.688 | 85 | 136567 | 26.49 | ug/L | 99 |
| 3) Chloromethane | 2.889 | 50 | 180301 | 26.75 | ug/L | 97 |
| 4) Vinyl Chloride | 3.035 | 62 | 196830 | 26.53 | ug/L | 95 |
| 5) 1,3-Butadiene | 3.023 | 54 | 50389 | Below Cal | | 86 |
| 6) Bromomethane | 3.455 | 94 | 121766 | 26.09 | ug/L | 96 |
| 7) Chloroethane | 3.607 | 64 | 95010 | 27.80 | ug/L | 94 |
| 8) Trichlorofluoromethane | 3.838 | 101 | 264834m | 28.03 | ug/L | |
| 9) Ethyl Ether | 4.112 | 59 | 115757 | 22.01 | ug/L | 95 |
| 10) 1,2-Dichlorotrifluoroe... | 4.355 | 67 | 200530 | 24.89 | ug/L | 93 |
| 11) 1,1-Dichloroethene | 4.398 | 61 | 258069 | 26.52 | ug/L | 98 |
| 12) Freon 113 | 4.464 | 101 | 149093 | 22.17 | ug/L | 92 |
| 13) Carbon Disulfide | 4.471 | 76 | 463561 | 21.30 | ug/L | 99 |
| 14) Iodomethane | 4.586 | 142 | 246941 | 22.86 | ug/L | 98 |
| 15) Allyl chloride | 4.921 | 41 | 179153 | 21.63 | ug/L | 94 |
| 16) Methylene Chloride | 5.042 | 49 | 211750 | 23.75 | ug/L | 98 |
| 17) Acetone | 5.067 | 58 | 43821 | 108.07 | ug/L | 95 |
| 18) Methyl acetate | 5.188 | 74 | 83310 | 109.21 | ug/L | 93 |
| 19) trans-1,2-Dichloroethene | 5.225 | 61 | 242197 | 26.96 | ug/L | 95 |
| 20) Hexane | 5.292 | 56 | 145912 | 23.31 | ug/L | 95 |
| 21) Methyl Tert Butyl Ether | 5.328 | 73 | 407830 | 21.08 | ug/L | 86 |
| 22) Acetonitrile | 5.590 | 40 | 62033 | 250.26 | ug/L | 92 |
| 23) Di-isopropyl ether | 5.712 | 45 | 470124 | 21.92 | ug/L | 99 |
| 24) Chloroprene | 5.870 | 53 | 227679 | 26.22 | ug/L | 98 |
| 25) 1,1-Dichloroethane | 5.894 | 63 | 309334 | 25.44 | ug/L | 99 |
| 26) Acrylonitrile | 5.925 | 53 | 200682 | 124.90 | ug/L | 95 |
| 27) ETBE | 6.113 | 59 | 472878 | 21.54 | ug/L | 99 |
| 28) Vinyl acetate | 6.107 | 43 | 1133841 | 114.89 | ug/L | 100 |
| 29) cis-1,2-Dichloroethene | 6.472 | 96 | 177619 | 22.95 | ug/L | 99 |
| 30) 2,2-Dichloropropane | 6.600 | 77 | 216497 | 21.37 | ug/L | 98 |
| 31) Bromochloromethane | 6.685 | 128 | 80299 | 22.05 | ug/L | 91 |
| 32) Cyclohexane | 6.728 | 56 | 278735 | 24.53 | ug/L | 97 |
| 33) Chloroform | 6.734 | 83 | 316347 | 23.74 | ug/L | 97 |
| 34) Ethyl acetate | 6.807 | 43 | 455818 | 124.46 | ug/L | 98 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976489.D
Acq On : 13 May 2016 5:32 pm
Operator : darshnap
Sample : fa33919-5msd ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 09:01:03 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 35) | Tetrahydrofuran | 6.910 | 42 | 26754 | 24.04 | ug/L | | 94 |
| 37) | Carbon Tetrachloride | 6.934 | 117 | 228651m | 22.19 | ug/L | | |
| 38) | 1,1,1-Trichloroethane | 6.995 | 97 | 267760 | 22.55 | ug/L | | 95 |
| 39) | 2-Butanone | 7.020 | 43 | 205237 | 118.15 | ug/L | | 95 |
| 40) | 1,1-Dichloropropene | 7.099 | 75 | 218064 | 23.58 | ug/L | | 98 |
| 41) | tert-Butyl Formate | 7.190 | 59 | 74211 | 16.93 | ug/L | | 89 |
| 42) | Propionitrile | 7.330 | 54 | 164362 | 279.59 | ug/L | | 80 |
| 43) | Methacrylonitrile | 7.354 | 41 | 665099 | 271.54 | ug/L | | 99 |
| 44) | Benzene | 7.354 | 78 | 695510 | 23.46 | ug/L | | 94 |
| 45) | TAME | 7.433 | 73 | 417303 | 20.58 | ug/L | | 91 |
| 47) | 1,2-Dichloroethane | 7.543 | 62 | 216256 | 22.64 | ug/L | | 98 |
| 48) | Trichloroethene | 7.932 | 95 | 185456 | 24.97 | ug/L | | 98 |
| 49) | Methylcyclohexane | 7.956 | 83 | 321553 | 25.18 | ug/L | | 98 |
| 50) | Dibromomethane | 8.358 | 93 | 95359 | 23.02 | ug/L | | 99 |
| 51) | 1,2-Dichloropropane | 8.449 | 63 | 166249 | 23.00 | ug/L | | 98 |
| 52) | Bromodichloromethane | 8.492 | 83 | 201492 | 21.01 | ug/L | | 96 |
| 53) | Methyl methacrylate | 8.595 | 41 | 93136 | 25.90 | ug/L | | 98 |
| 55) | cis-1,3-Dichloropropene | 9.112 | 75 | 222240 | 20.10 | ug/L | | 96 |
| 58) | Toluene | 9.350 | 91 | 757597 | 24.08 | ug/L | | 98 |
| 59) | 2-Nitropropane | 9.556 | 41 | 125336 | 108.91 | ug/L | | 95 |
| 60) | 4-Methyl-2-pentanone | 9.672 | 43 | 529486 | 113.98 | ug/L | | 98 |
| 61) | trans-1,3-Dichloropropene | 9.739 | 75 | 214897 | 22.50 | ug/L | | 95 |
| 62) | Tetrachloroethene | 9.757 | 166 | 188044 | 24.05 | ug/L | | 99 |
| 63) | Ethyl methacrylate | 9.842 | 69 | 154623 | 22.00 | ug/L | | 94 |
| 64) | 1,1,2-Trichloroethane | 9.903 | 83 | 120458 | 23.43 | ug/L | | 97 |
| 65) | Dibromochloromethane | 10.098 | 129 | 138934 | 20.26 | ug/L | | 99 |
| 66) | 1,3-Dichloropropane | 10.183 | 76 | 230598 | 22.06 | ug/L | | 98 |
| 67) | 1,2-Dibromoethane | 10.359 | 107 | 130576 | 22.21 | ug/L | | 98 |
| 68) | 2-hexanone | 10.487 | 43 | 363219 | 116.45 | ug/L | | 99 |
| 69) | 1-Chlorohexane | 10.797 | 91 | 229768 | 24.74 | ug/L | | 95 |
| 70) | Ethylbenzene | 10.858 | 91 | 1103865 | 29.99 | ug/L | | 99 |
| 71) | Chlorobenzene | 10.864 | 112 | 514428 | 23.93 | ug/L | | 93 |
| 72) | 1,1,1,2-Tetrachloroethane | 10.913 | 131 | 165839 | 23.40 | ug/L | | 98 |
| 73) | m,p-Xylene | 10.998 | 91 | 1755407 | 63.43 | ug/L | | 96 |
| 74) | o-Xylene | 11.436 | 91 | 710867 | 25.36 | ug/L | | 97 |
| 75) | Styrene | 11.485 | 104 | 498537 | 23.05 | ug/L | | 99 |
| 76) | Bromoform | 11.546 | 173 | 81994 | 18.59 | ug/L | | 98 |
| 77) | Isopropylbenzene | 11.740 | 105 | 863229 | 24.96 | ug/L | | 97 |
| 80) | cis-1,4-Dichloro-2-butene | 12.087 | 53 | 24156 | 13.77 | ug/L | | 93 |
| 81) | n-Propylbenzene | 12.160 | 91 | 1038065 | 24.67 | ug/L | | 97 |
| 82) | Bromobenzene | 12.185 | 156 | 218459 | 23.06 | ug/L | | 96 |
| 83) | 1,1,2,2-Tetrachloroethane | 12.221 | 83 | 177326 | 23.44 | ug/L | | 98 |
| 84) | 1,3,5-Trimethylbenzene | 12.343 | 105 | 729259 | 23.06 | ug/L | | 98 |
| 85) | 2-Chlorotoluene | 12.349 | 91 | 708227 | 23.75 | ug/L | | 99 |
| 86) | trans-1,4-Dichloro-2-B... | 12.397 | 53 | 23564 | 14.11 | ug/L | # | 69 |
| 87) | 1,2,3-Trichloropropane | 12.385 | 110 | 48017 | 24.06 | ug/L | | 98 |
| 88) | Cyclohexanone | 12.446 | 55 | 16185 | 92.07 | ug/L | | 91 |
| 89) | 4-Chlorotoluene | 12.519 | 91 | 637469 | 23.18 | ug/L | | 99 |
| 90) | a-Methyl Styrene | 12.750 | 118 | 8059 | 0.51 | ug/L | # | 1 |
| 91) | tert-Butylbenzene | 12.683 | 91 | 415448 | 23.91 | ug/L | | 97 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976489.D
Acq On : 13 May 2016 5:32 pm
Operator : darshnap
Sample : fa33919-5msd ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 09:01:03 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 92) | 1,2,4-Trimethylbenzene | 12.750 | 105 | 728881 | 23.09 | ug/L | | 99 |
| 93) | Pentachloroethane | 12.738 | 167 | 137697 | 24.02 | ug/L | | 96 |
| 94) | sec-Butylbenzene | 12.866 | 105 | 934066 | 24.66 | ug/L | | 98 |
| 95) | 4-Isopropyltoluene | 13.000 | 119 | 767955 | 25.42 | ug/L | | 100 |
| 96) | 1,3-Dichlorobenzene | 13.134 | 146 | 389031 | 23.30 | ug/L | | 98 |
| 97) | 1,4-Dichlorobenzene | 13.219 | 146 | 395034 | 22.80 | ug/L | | 97 |
| 98) | n-Butylbenzene | 13.432 | 92 | 415839 | 24.00 | ug/L | | 99 |
| 99) | Benzyl Chloride | 13.450 | 126 | 49061 | 18.08 | ug/L | # | 76 |
| 100) | 1,2-Dichlorobenzene | 13.645 | 146 | 345185 | 22.18 | ug/L | | 99 |
| 101) | 1,2-Dibromo-3-Chloropr... | 14.381 | 75 | 21753 | 21.82 | ug/L | | 91 |
| 102) | Hexachlorobutadiene | 14.928 | 225 | 152000 | 22.94 | ug/L | | 97 |
| 103) | 1,2,4-Trichlorobenzene | 14.971 | 180 | 226622 | 21.39 | ug/L | | 99 |
| 104) | Naphthalene | 15.257 | 128 | 362330 | 23.46 | ug/L | | 98 |
| 105) | 1,2,3-Trichlorobenzene | 15.427 | 180 | 199170 | 22.62 | ug/L | | 98 |
| 107) | Ethanol | 4.282 | 45 | 22738m | 518.53 | ug/L | | |
| 108) | acrolein | 4.756 | 56 | 71639 | 85.68 | ug/L | | 90 |
| 109) | Tert Butyl Alcohol | 5.377 | 59 | 154080 | 349.57 | ug/L | | 83 |
| 110) | tert Amyl alcohol | 7.573 | 59 | 74513 | 207.39 | ug/L | | 94 |
| 111) | Isobutyl alcohol | 7.452 | 42 | 70473 | 443.13 | ug/L | # | 90 |
| 112) | 1,4-Dioxane | 8.668 | 88 | 26489 | 525.04 | ug/L | | 95 |
| 113) | 3,3-Dimethyl-1-butanol | 10.432 | 57 | 439278 | 1119.04 | ug/L | | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

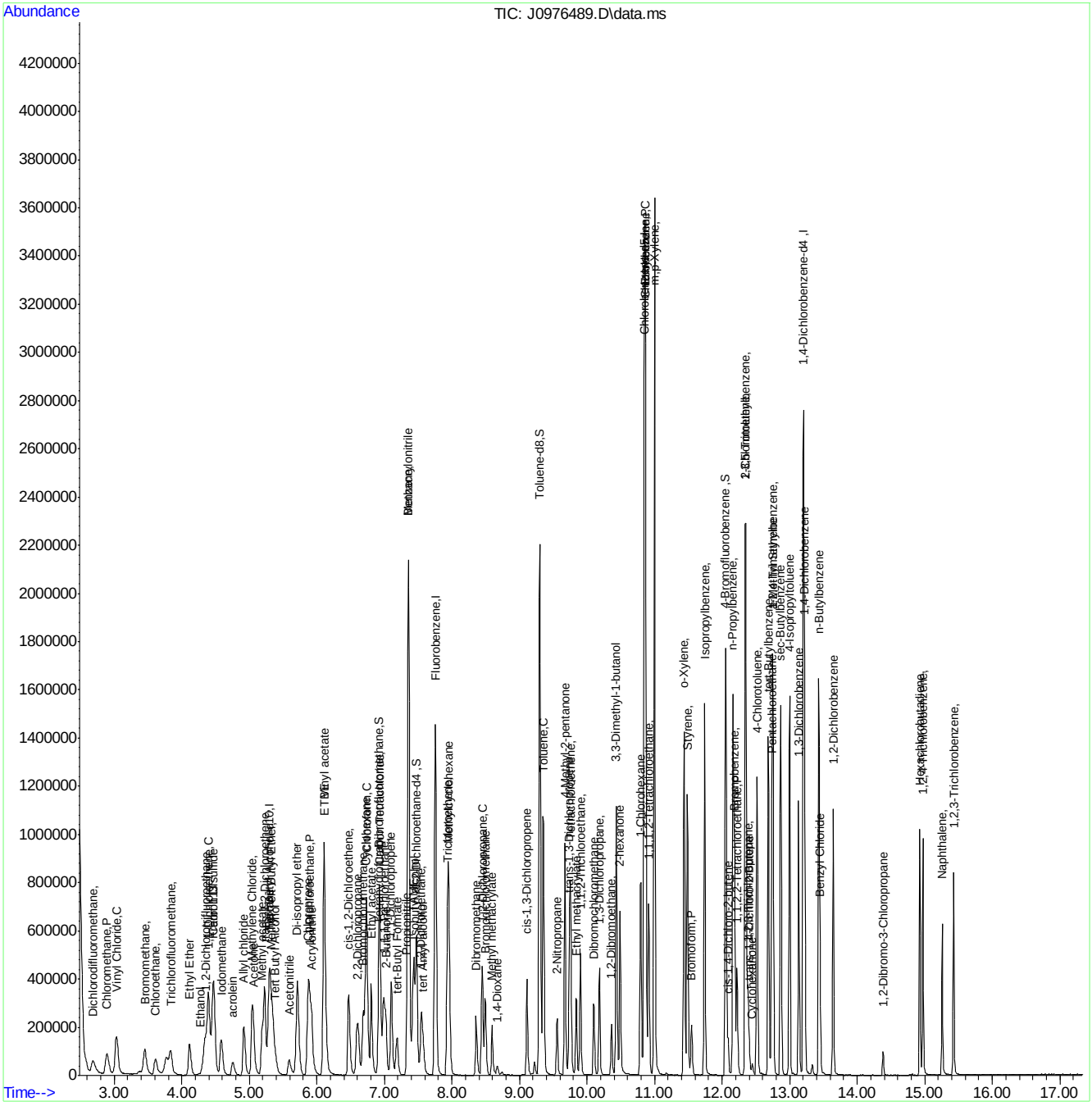



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976489.D
Acq On : 13 May 2016 5:32 pm
Operator : darshnap
Sample : fa33919-5msd ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 09:01:03 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration










SGS ACCUTEST FA33878

# Manual Integration Approval Summary



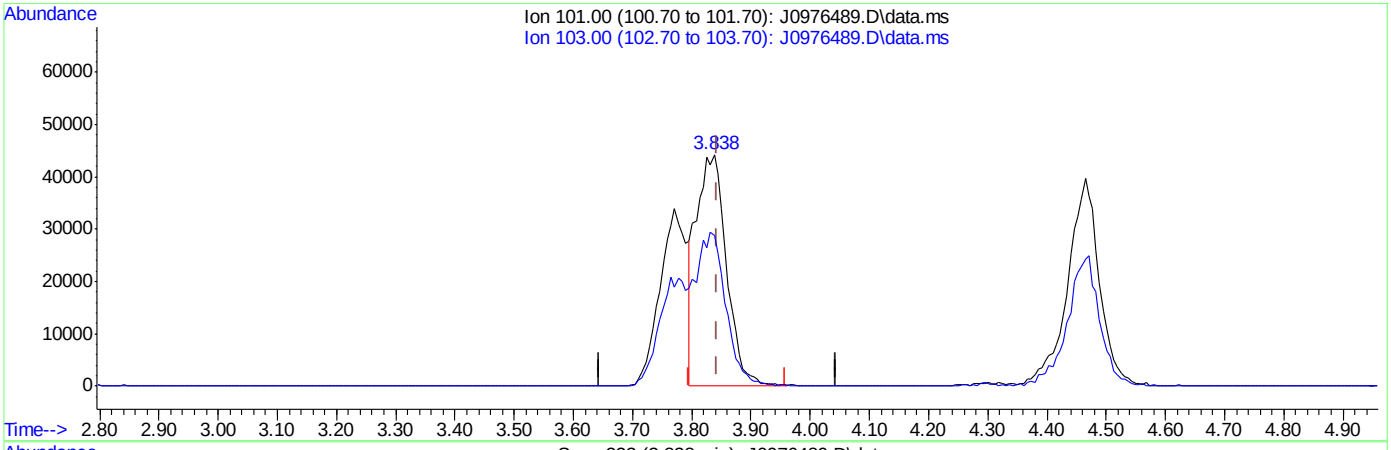
| | | | |
|---|---|---|---|
| **Sample Number:** | FA33919-5MSD | **Method:** | SW846 8260C |
| **Lab FileID:** | J0976489.D | **Analyst approved:** | 05/16/16 10:08 Darshna Patel |
| **Injection Time:** | 05/13/16 17:32 | **Supervisor approved:** | 05/16/16 11:06 Juan Garcia |

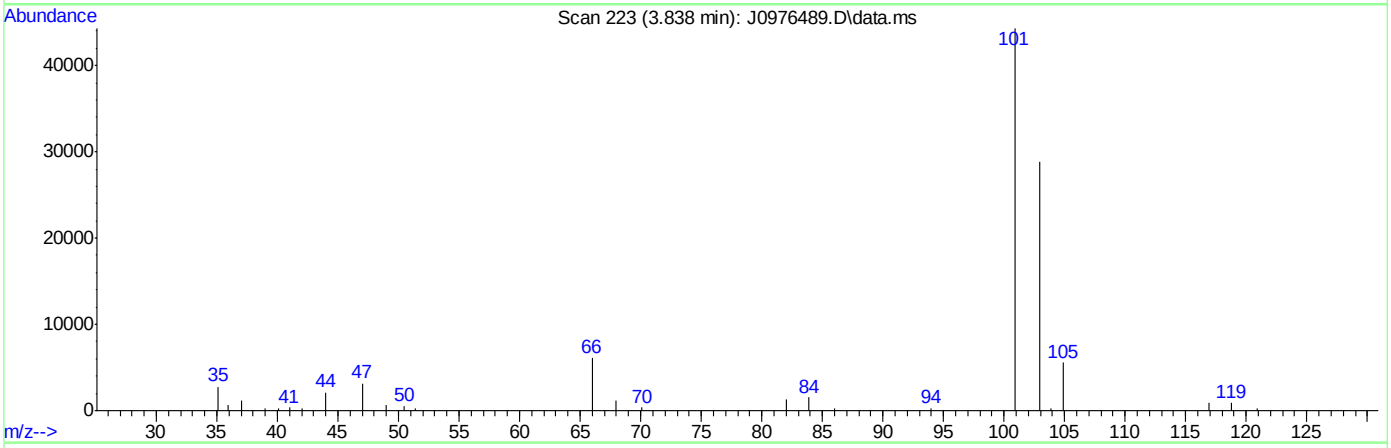
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichlorofluoromethane | 75-69-4 | | 3.84 | Split peak |
| Ethyl Alcohol | 64-17-5 | | 4.28 | Poor instrument integration |
| Carbon Tetrachloride | 56-23-5 | | 6.93 | Overlapping peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976489.D
Acq On : 13 May 2016 5:32 pm
Operator : darshnap
Sample : fa33919-5msd ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 08:47:04 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




(8) Trichlorofluoromethane ( )

3.838min (-0.006) 16.69ug/L

response 157654

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 64.67 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

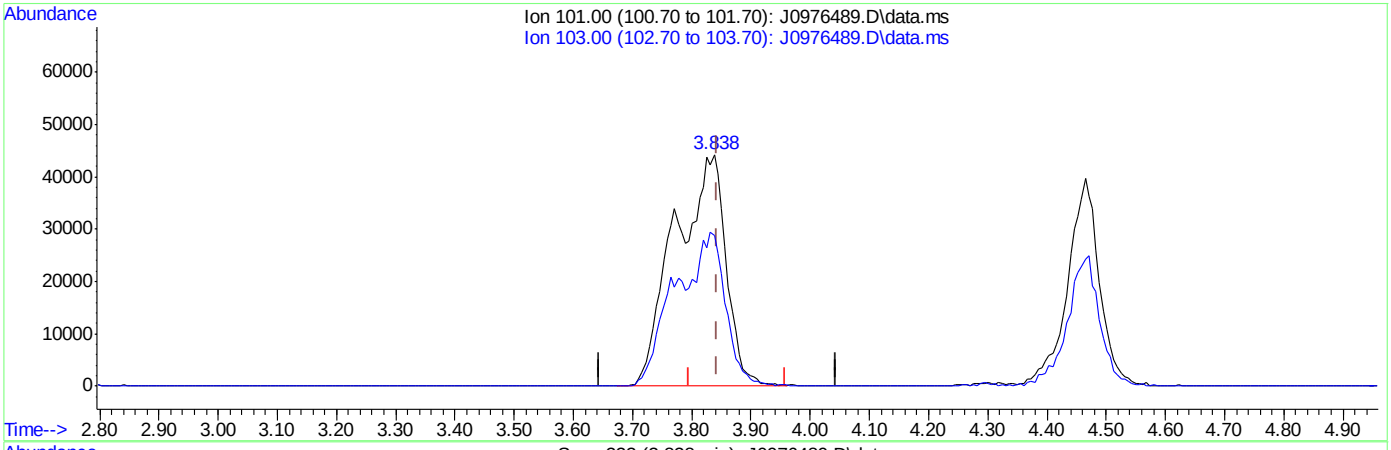


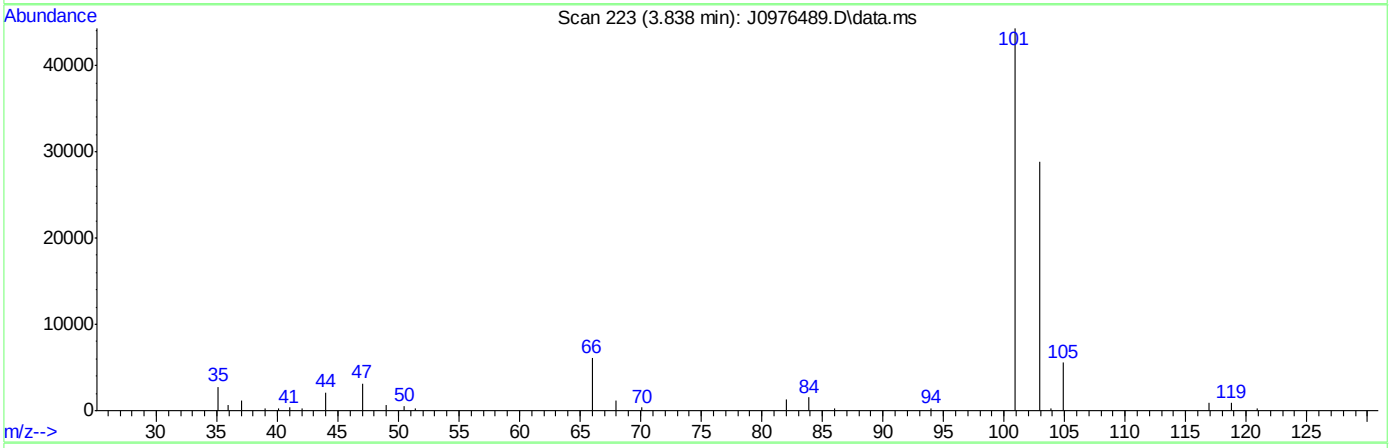
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976489.D
Acq On : 13 May 2016 5:32 pm
Operator : darshnap
Sample : fa33919-5msd ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 08:47:04 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




TIC: J0976489.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.006) 28.03ug/L m

response 264834

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 65.26 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

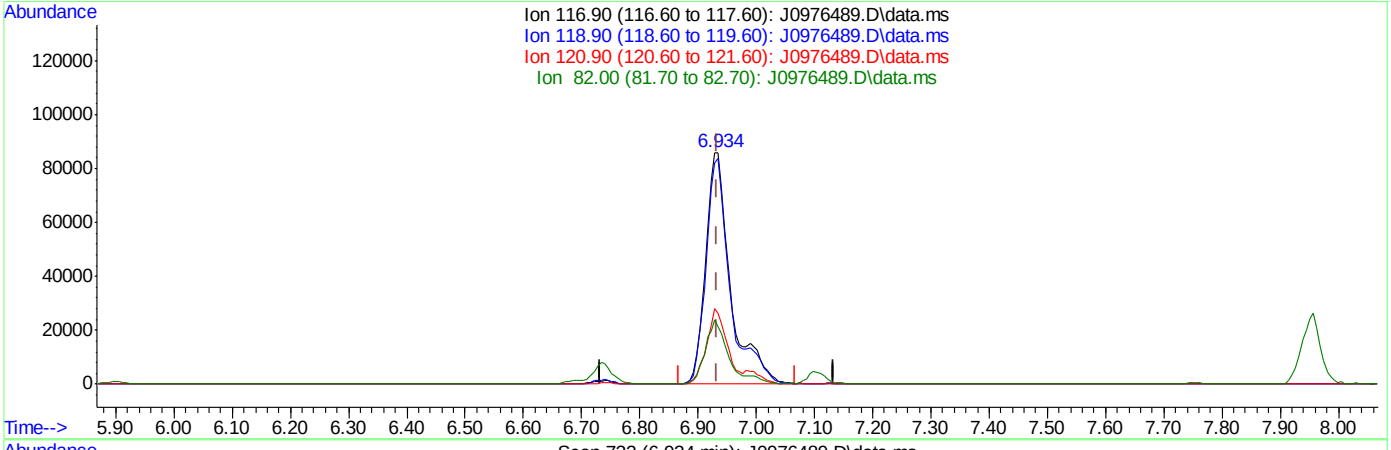


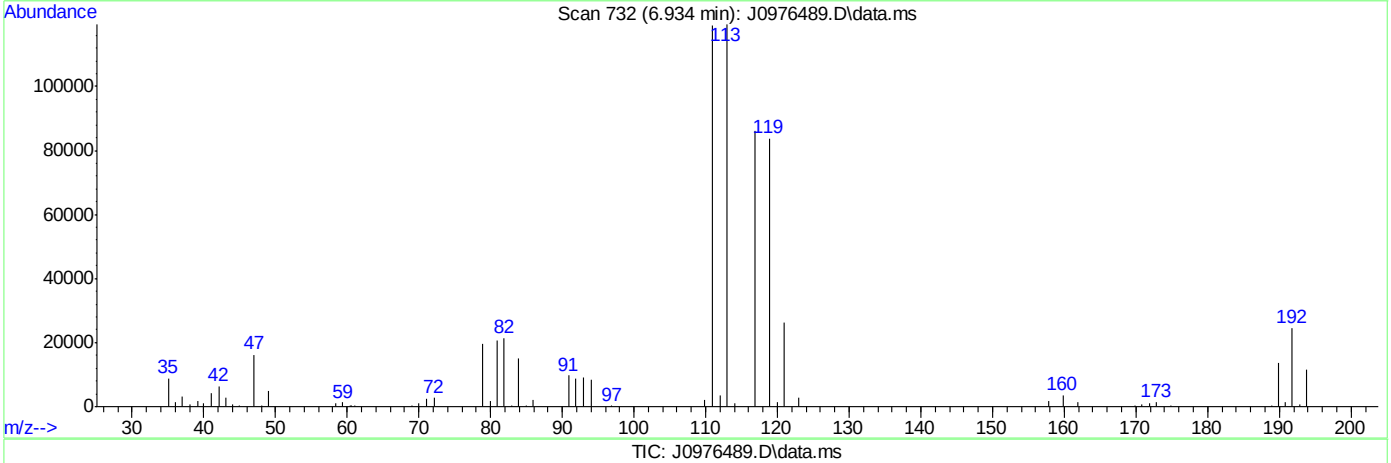
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976489.D
Acq On : 13 May 2016 5:32 pm
Operator : darshnap
Sample : fa33919-5msd ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 08:47:04 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




TIC: J0976489.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 25.17ug/L

response 259370

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 97.48 |
| 120.90 | 31.20 | 30.43 |
| 82.00 | 25.70 | 25.02 |

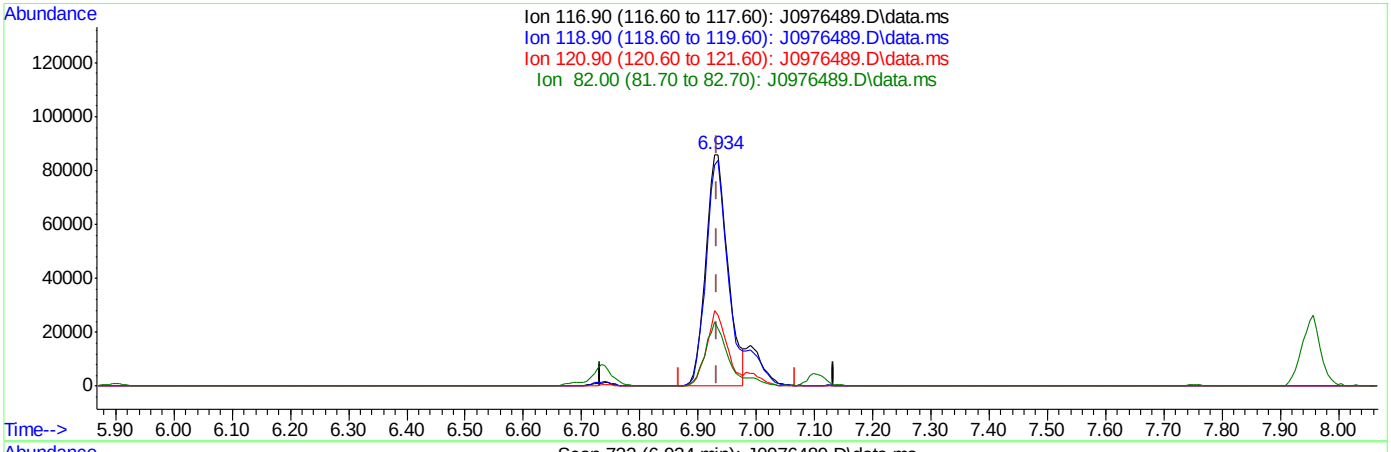


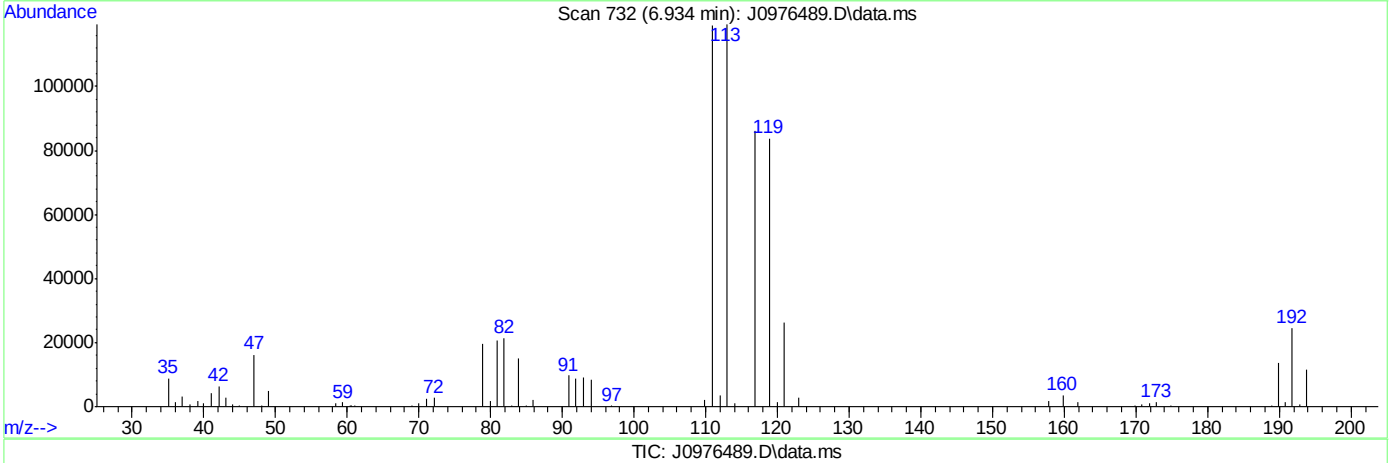
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976489.D
Acq On : 13 May 2016 5:32 pm
Operator : darshnap
Sample : fa33919-5msd ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 08:47:04 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




TIC: J0976489.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 22.19ug/L m

response 228651

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 97.48 |
| 120.90 | 31.20 | 30.43 |
| 82.00 | 25.70 | 25.02 |

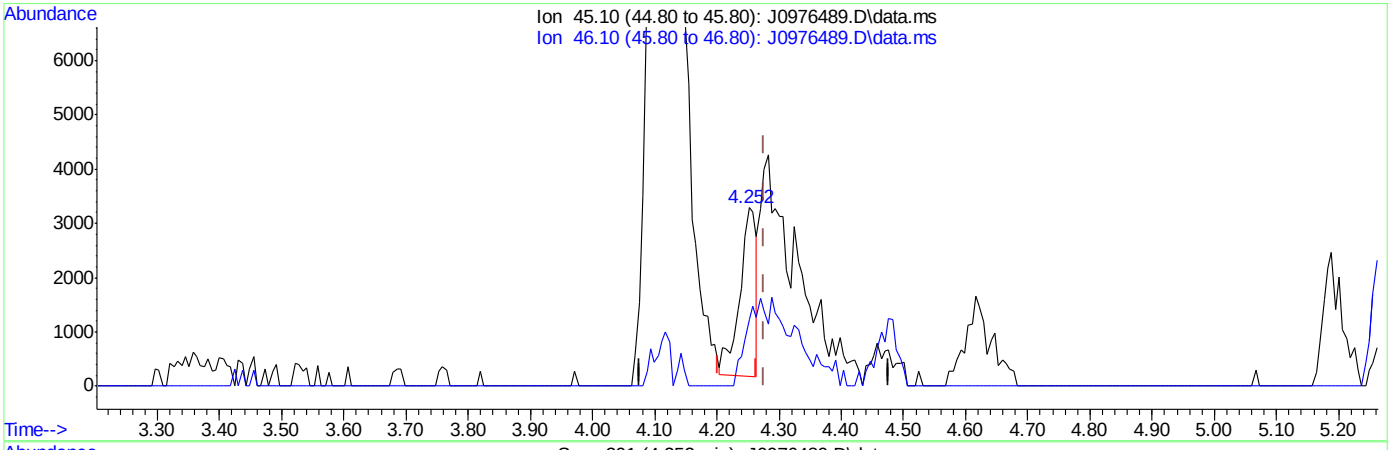


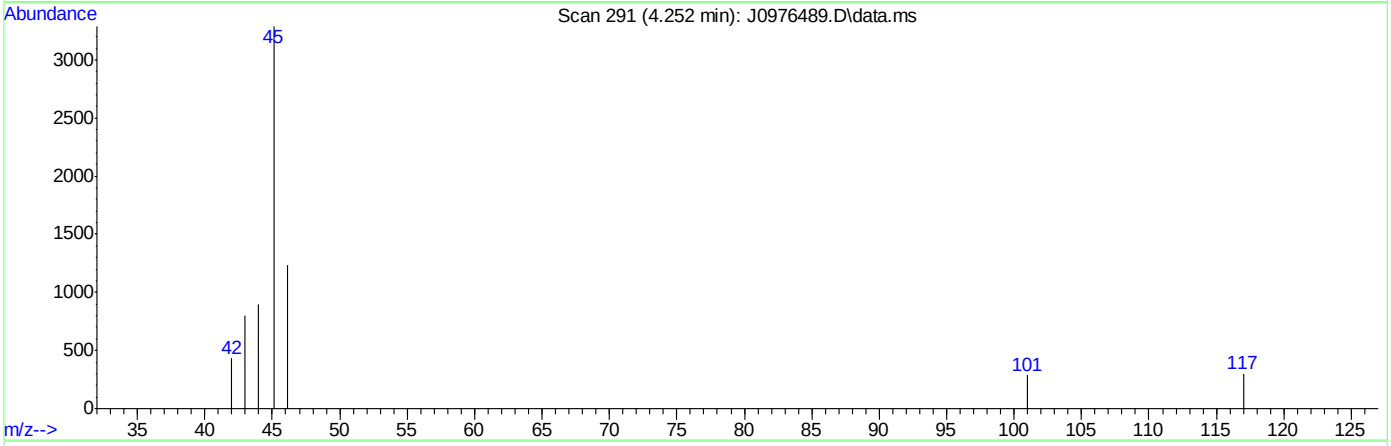
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976489.D
Acq On : 13 May 2016 5:32 pm
Operator : darshnap
Sample : fa33919-5msd ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 08:47:04 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




TIC: J0976489.D\data.ms

(107) Ethanol

4.252min (-0.024) 134.27ug/L

response 5888

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 41.82 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

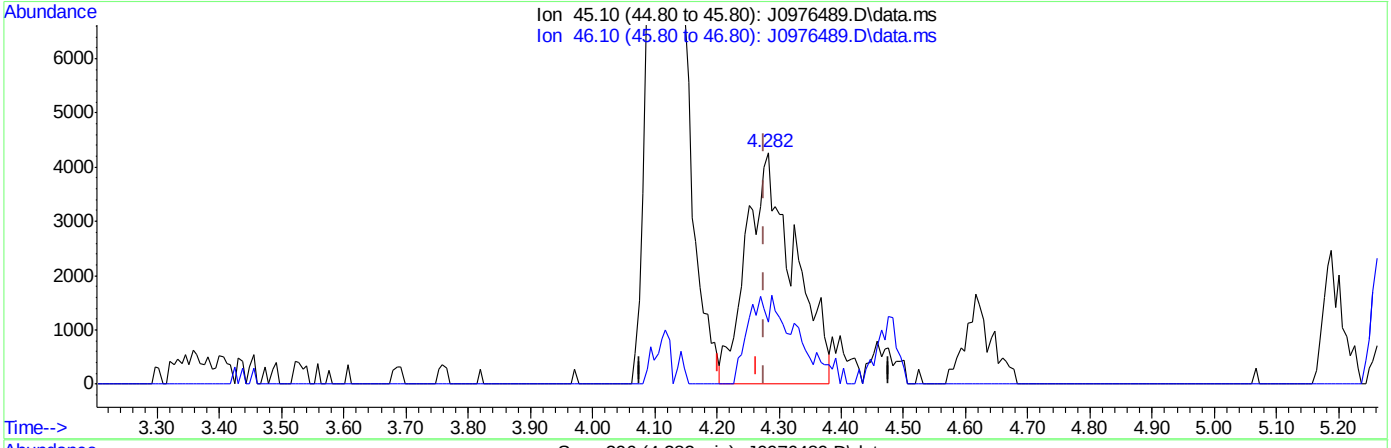


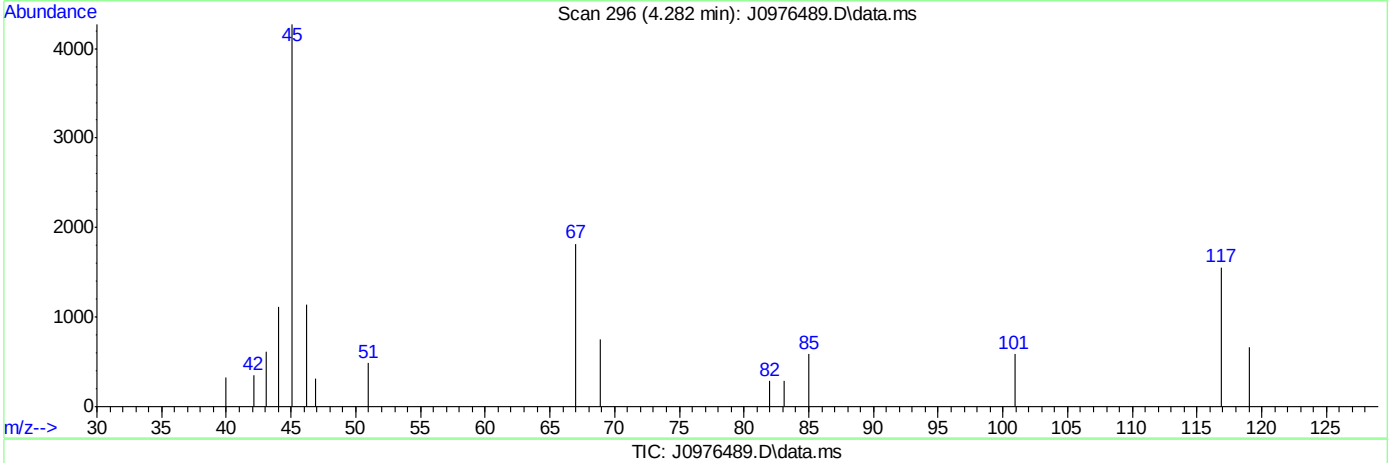
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976489.D
Acq On : 13 May 2016 5:32 pm
Operator : darshnap
Sample : fa33919-5msd ma Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 14 08:47:04 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




TIC: J0976489.D\data.ms

(107) Ethanol

4.282min (+0.006) 518.53ug/L m

response 22738

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 26.60 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

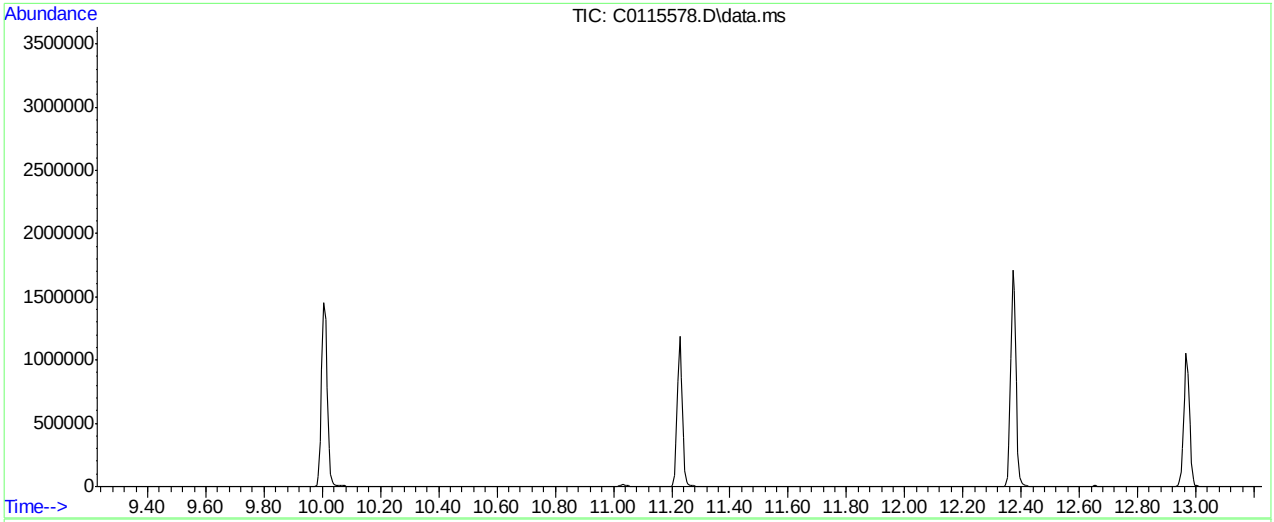


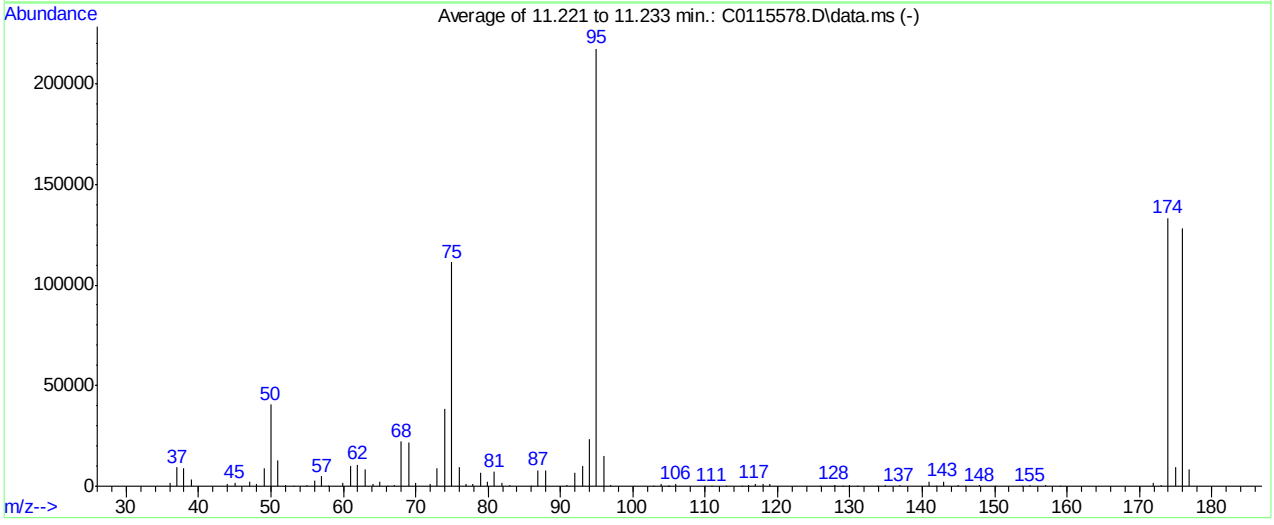
SGS ACCUTEST FA33878

Methods: SW-846 8260B

Data File : C:\msdchem\2\DATA\051216\C0115578.D  Vial: 5
Acq On : 12 May 2016 11:34 am  Operator: ericp
Sample : BFB  Inst : MSVOA5
Misc : ms33242,vc4595,,,,,  Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\2\MET...216APP9-C-Soil.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B




Spectrum Information: Average of 11.221 to 11.233 min.

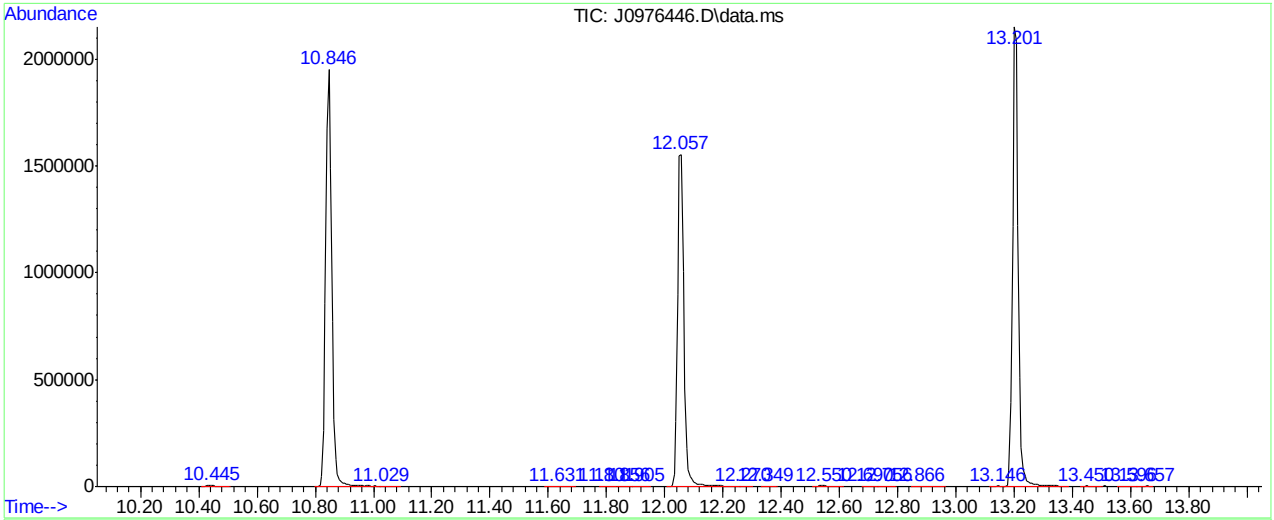
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 18.6 | 40501 | PASS |
| 75 | 95 | 30 | 60 | 51.1 | 111235 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 217536 | PASS |
| 96 | 95 | 5 | 9 | 7.0 | 15132 | PASS |
| 173 | 174 | 0.00 | 2 | 0.6 | 778 | PASS |
| 174 | 95 | 50 | 100 | 61.3 | 133296 | PASS |
| 175 | 174 | 5 | 9 | 7.3 | 9706 | PASS |
| 176 | 174 | 95 | 101 | 96.0 | 127989 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 8524 | PASS |

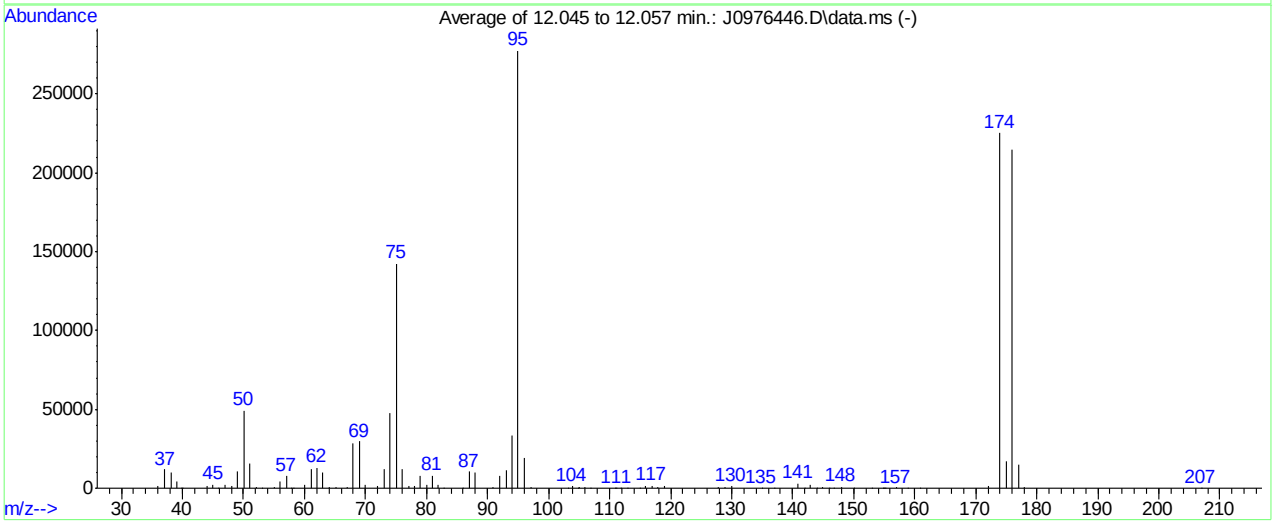
C0115578.D 051216APP9-C-Soil.m Fri May 13 07:44:21 2016

Methods: SW-846 8260B

Data File : C:\msdchem\2\data\051216\J0976446.D  Vial: 1
Acq On : 12 May 2016 9:48 am  Operator: darshnap
Sample : bfb  Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,  Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\methods\MSJ051216a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624




AutoFind: Scans 1572, 1573, 1574; Background Corrected with Scan 1566

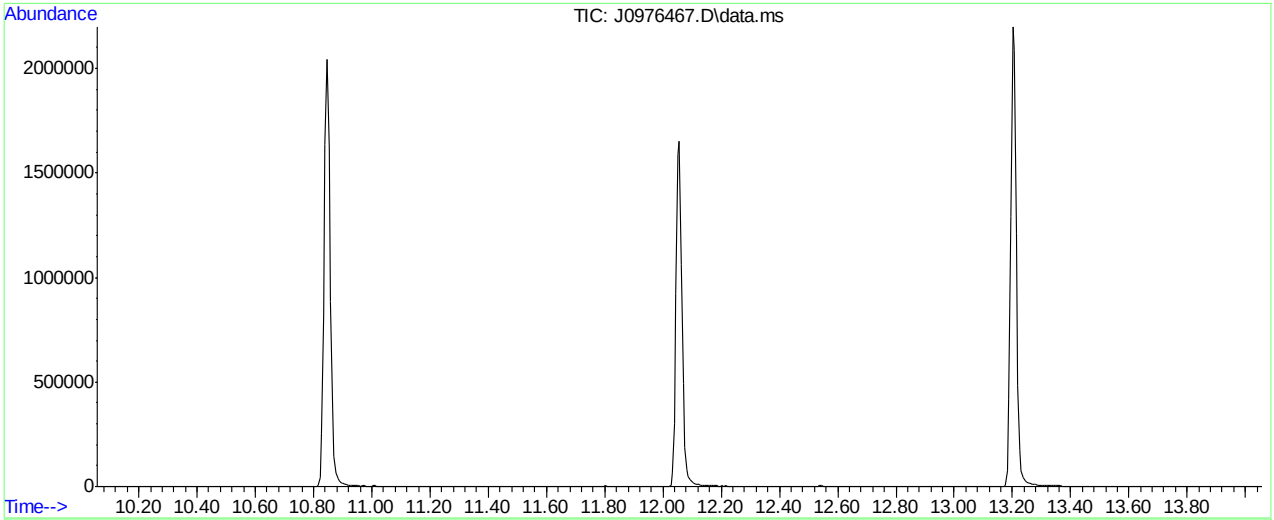
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 17.7 | 49040 | PASS |
| 75 | 95 | 30 | 60 | 51.3 | 142333 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 277525 | PASS |
| 96 | 95 | 5 | 9 | 7.0 | 19428 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 81.1 | 224981 | PASS |
| 175 | 174 | 5 | 9 | 7.6 | 16995 | PASS |
| 176 | 174 | 95 | 101 | 95.3 | 214451 | PASS |
| 177 | 176 | 5 | 9 | 7.0 | 14970 | PASS |

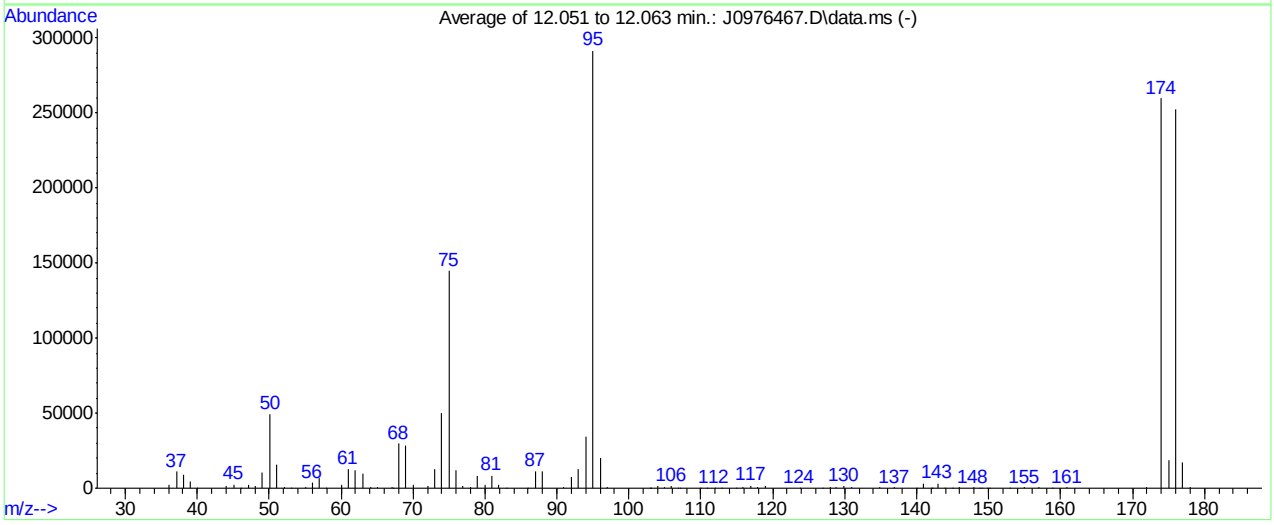
J0976446.D MSJ051216a.M Fri May 13 07:51:47 2016

Methods: SW-846 8260B

Data File : C:\msdchem\2\data\051316\J0976467.D  Vial: 1
Acq On : 13 May 2016 8:07 am  Operator: darshnap
Sample : bfb  Inst : MSVOA6
Misc : MS33839,VJ5296,,,,,  Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\methods\MSJ051216a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624




AutoFind: Scans 1573, 1574, 1575; Background Corrected with Scan 1566

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 16.9 | 49349 | PASS |
| 75 | 95 | 30 | 60 | 49.6 | 144635 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 291584 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 19948 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 89.1 | 259819 | PASS |
| 175 | 174 | 5 | 9 | 7.2 | 18605 | PASS |
| 176 | 174 | 95 | 101 | 97.2 | 252565 | PASS |
| 177 | 176 | 5 | 9 | 6.8 | 17084 | PASS |

J0976467.D MSJ051216a.M Mon May 16 09:09:37 2016

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
05/13/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115579.D
Acq On : 12 May 2016 11:59 am
Operator : ericp
Sample : IC4595-1 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 13:40:46 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Fluorobenzene | 6.883 | 96 | 884118 | 50.00 | ug/Kg | -0.01 |
| 54) Chlorobenzene-d5 | 10.004 | 117 | 554515 | 50.00 | ug/Kg | -0.01 |
| 76) 1,4-Dichlorobenzene-d4 | 12.371 | 152 | 282794 | 50.00 | ug/Kg | -0.02 |
| 103) Tert Butyl Alcohol-d10 | 4.523 | 65 | 121926 | 250.00 | ug/Kg | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 35) Dibromofluoromethane | 6.056 | 113 | 280974 | 50.00 | ug/Kg | -0.01 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 100.00% | | | |
| 44) 1,2-Dichloroethane-d4 | 6.616 | 65 | 315777 | 50.00 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 72 - 135 | | Recovery = 100.00% | | | |
| 55) Toluene-d8 | 8.453 | 98 | 789139 | 50.00 | ug/Kg | -0.01 |
| Spiked Amount 50.000 | Range 75 - 126 | | Recovery = 100.00% | | | |
| 77) 4-Bromofluorobenzene | 11.227 | 174 | 167612 | 50.00 | ug/Kg | -0.01 |
| Spiked Amount 50.000 | Range 71 - 133 | | Recovery = 100.00% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.223 | 85 | 56473 | 5.00 | ug/Kg | 91 |
| 3) Chloromethane | 2.412 | 50 | 53720 | 5.00 | ug/Kg | 98 |
| 4) Vinyl Chloride | 2.515 | 62 | 42575 | 5.00 | ug/Kg | 94 |
| 5) Bromomethane | 2.881 | 94 | 23925 | 5.00 | ug/Kg | 99 |
| 6) Chloroethane | 3.014 | 64 | 21088 | 5.00 | ug/Kg | 90 |
| 7) Trichlorofluoromethane | 3.166 | 101 | 53957 | 5.00 | ug/Kg | 96 |
| 8) Ethyl Ether | 3.440 | 59 | 21835 | 5.00 | ug/Kg | 81 |
| 9) 1,2-Dichlorotrifluoroe... | 3.659 | 67 | 42855 | 5.00 | ug/Kg | 83 |
| 10) 1,1-Dichloroethene | 3.665 | 61 | 57077 | 5.00 | ug/Kg | 97 |
| 11) Freon 113 | 3.726 | 101 | 40311 | 5.00 | ug/Kg | 93 |
| 12) Carbon Disulfide | 3.714 | 76 | 119632 | 5.00 | ug/Kg | 89 |
| 13) Iodomethane | 3.830 | 142 | 57005 | 5.00 | ug/Kg | 96 |
| 14) Allyl chloride | 4.152 | 41 | 48376 | 5.00 | ug/Kg# | 79 |
| 15) Methylene Chloride | 4.255 | 49 | 57952 | 5.00 | ug/Kg | 91 |
| 16) Acetone | 4.316 | 43 | 44783 | 25.00 | ug/Kg | 95 |
| 17) Methyl acetate | 4.420 | 43 | 79086 | 25.00 | ug/Kg | 95 |
| 18) trans-1,2-Dichloroethene | 4.420 | 61 | 47727 | 5.00 | ug/Kg | 93 |
| 19) Hexane | 4.487 | 56 | 27851 | 5.00 | ug/Kg | 93 |
| 20) Methyl Tert Butyl Ether | 4.511 | 73 | 81037 | 5.00 | ug/Kg | 93 |
| 21) Acetonitrile | 4.791 | 41 | 28512 | 50.00 | ug/Kg | 84 |
| 22) Di-isopropyl ether | 4.882 | 45 | 79859 | 5.00 | ug/Kg | 94 |
| 23) Chloroprene | 5.016 | 53 | 57539 | 5.00 | ug/Kg | 90 |
| 24) 1,1-Dichloroethane | 5.046 | 63 | 61379 | 5.00 | ug/Kg | 94 |
| 25) Acrylonitrile | 5.107 | 52 | 33047 | 25.00 | ug/Kg | 89 |
| 26) ETBE | 5.253 | 59 | 82077 | 5.00 | ug/Kg | 92 |
| 27) Vinyl acetate | 5.277 | 43 | 202726 | 25.00 | ug/Kg | 98 |
| 28) cis-1,2-Dichloroethene | 5.594 | 96 | 38080 | 5.00 | ug/Kg | 99 |
| 29) 2,2-Dichloropropane | 5.709 | 77 | 49883 | 5.00 | ug/Kg | 96 |
| 30) Bromochloromethane | 5.807 | 128 | 17816 | 5.00 | ug/Kg# | 83 |
| 31) Cyclohexane | 5.807 | 84 | 53781 | 5.00 | ug/Kg | 93 |
| 32) Chloroform | 5.868 | 83 | 68752 | 5.00 | ug/Kg | 96 |
| 33) Ethyl acetate | 5.965 | 43 | 74203 | 25.00 | ug/Kg | 95 |
| 34) Tetrahydrofuran | 6.044 | 42 | 6673 | 5.00 | ug/Kg | 86 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115579.D
Acq On : 12 May 2016 11:59 am
Operator : ericp
Sample : IC4595-1 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 13:40:46 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 36) Carbon Tetrachloride | 6.020 | 117 | 56190 | 5.00 | ug/Kg | 97 |
| 37) 1,1,1-Trichloroethane | 6.093 | 97 | 61032 | 5.00 | ug/Kg | 96 |
| 38) 2-Butanone | 6.190 | 43 | 44942 | 25.00 | ug/Kg | 93 |
| 39) 1,1-Dichloropropene | 6.214 | 75 | 43507 | 5.00 | ug/Kg | 92 |
| 40) Propionitrile | 6.506 | 54 | 30707 | 50.00 | ug/Kg | 94 |
| 41) Methacrylonitrile | 6.518 | 41 | 112022 | 50.00 | ug/Kg | 91 |
| 42) Benzene | 6.470 | 78 | 120468 | 5.00 | ug/Kg | 96 |
| 43) TAME | 6.561 | 73 | 72952 | 5.00 | ug/Kg | 90 |
| 45) 1,2-Dichloroethane | 6.683 | 62 | 42059 | 5.00 | ug/Kg | 92 |
| 46) Trichloroethene | 7.060 | 95 | 32342 | 5.00 | ug/Kg | 93 |
| 47) Methylcyclohexane | 7.048 | 83 | 52195 | 5.00 | ug/Kg | 89 |
| 48) Dibromomethane | 7.498 | 93 | 17976 | 5.00 | ug/Kg# | 74 |
| 49) 1,2-Dichloropropane | 7.589 | 63 | 26013 | 5.00 | ug/Kg | 82 |
| 50) Bromodichloromethane | 7.644 | 83 | 39015 | 5.00 | ug/Kg | 85 |
| 51) Methyl methacrylate | 7.772 | 41 | 7889 | 5.00 | ug/Kg | 89 |
| 52) 2-Chloroethyl vinyl ether | 8.191 | 63 | 23563 | 25.00 | ug/Kg | 94 |
| 53) cis-1,3-Dichloropropene | 8.271 | 75 | 27609 | 5.00 | ug/Kg | 88 |
| 56) Toluene | 8.508 | 91 | 96828 | 5.00 | ug/Kg | 90 |
| 57) 2-Nitropropane | 8.745 | 41 | 23033 | 25.00 | ug/Kg | 95 |
| 58) 4-Methyl-2-pentanone | 8.867 | 43 | 81592 | 25.00 | ug/Kg | 87 |
| 59) trans-1,3-Dichloropropene | 8.915 | 75 | 19778 | 5.00 | ug/Kg# | 80 |
| 60) Tetrachloroethene | 8.897 | 166 | 24282 | 5.00 | ug/Kg | 98 |
| 61) Ethyl methacrylate | 9.043 | 69 | 11993 | 5.00 | ug/Kg | 92 |
| 62) 1,1,2-Trichloroethane | 9.080 | 83 | 15959 | 5.00 | ug/Kg | 91 |
| 63) Dibromochloromethane | 9.262 | 129 | 17796 | 5.00 | ug/Kg | 89 |
| 64) 1,3-Dichloropropane | 9.360 | 76 | 24833 | 5.00 | ug/Kg | 95 |
| 65) 1,2-Dibromoethane | 9.518 | 107 | 14031 | 5.00 | ug/Kg | 85 |
| 66) 2-hexanone | 9.694 | 43 | 32416 | 25.00 | ug/Kg | 85 |
| 67) 1-Chlorohexane | 9.974 | 91 | 18843 | 5.00 | ug/Kg | 79 |
| 68) Ethylbenzene | 10.035 | 91 | 103001 | 5.00 | ug/Kg | 95 |
| 69) Chlorobenzene | 10.029 | 112 | 58024 | 5.00 | ug/Kg | 97 |
| 70) 1,1,1,2-Tetrachloroethane | 10.077 | 131 | 27066 | 5.00 | ug/Kg | 93 |
| 71) m,p-Xylene | 10.175 | 91 | 140211 | 10.00 | ug/Kg | 95 |
| 72) o-Xylene | 10.613 | 91 | 62041 | 5.00 | ug/Kg | 95 |
| 73) Styrene | 10.667 | 104 | 38267 | 5.00 | ug/Kg | 90 |
| 74) Bromoform | 10.716 | 173 | 8588 | 5.00 | ug/Kg | 94 |
| 75) Isopropylbenzene | 10.923 | 105 | 76219 | 5.00 | ug/Kg | 97 |
| 78) cis-1,4-Dichloro-2-butene | 11.276 | 53 | 2977 | 5.00 | ug/Kg# | 48 |
| 79) n-Propylbenzene | 11.343 | 91 | 106475 | 5.00 | ug/Kg | 98 |
| 80) Bromobenzene | 11.343 | 156 | 22169 | 5.00 | ug/Kg | 96 |
| 81) 1,1,2,2-Tetrachloroethane | 11.422 | 83 | 27329 | 5.00 | ug/Kg | 99 |
| 82) 1,3,5-Trimethylbenzene | 11.531 | 105 | 73312 | 5.00 | ug/Kg | 98 |
| 83) 2-Chlorotoluene | 11.519 | 91 | 78918 | 5.00 | ug/Kg | 94 |
| 84) trans-1,4-Dichloro-2-B... | 11.598 | 53 | 3205 | 5.00 | ug/Kg# | 69 |
| 85) 1,2,3-Trichloropropane | 11.574 | 110 | 7395 | 5.00 | ug/Kg | 93 |
| 86) Cyclohexanone | 11.629 | 55 | 3103 | 25.00 | ug/Kg | 73 |
| 87) 4-Chlorotoluene | 11.690 | 91 | 61466 | 5.00 | ug/Kg | 93 |
| 88) tert-Butylbenzene | 11.866 | 91 | 34895 | 5.00 | ug/Kg | 90 |
| 89) 1,2,4-Trimethylbenzene | 11.939 | 105 | 70175 | 5.00 | ug/Kg | 98 |
| 90) Pentachloroethane | 11.909 | 167 | 13875 | 5.00 | ug/Kg | 85 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115579.D
Acq On : 12 May 2016 11:59 am
Operator : ericp
Sample : IC4595-1 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 13:40:46 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 91) | sec-Butylbenzene | 12.048 | 105 | 88427 | 5.00 | ug/Kg | 88 |
| 92) | 4-Isopropyltoluene | 12.188 | 119 | 61899 | 5.00 | ug/Kg | 95 |
| 93) | 1,3-Dichlorobenzene | 12.298 | 146 | 45329 | 5.00 | ug/Kg | 94 |
| 94) | 1,4-Dichlorobenzene | 12.389 | 146 | 47610 | 5.00 | ug/Kg | 94 |
| 95) | n-Butylbenzene | 12.632 | 92 | 40351 | 5.00 | ug/Kg# | 55 |
| 96) | Benzyl Chloride | 12.645 | 126 | 7419 | 5.00 | ug/Kg# | 82 |
| 97) | 1,2-Dichlorobenzene | 12.833 | 146 | 45726 | 5.00 | ug/Kg | 90 |
| 98) | 1,2-Dibromo-3-Chloropr... | 13.642 | 75 | 6126 | 5.00 | ug/Kg# | 74 |
| 99) | Hexachlorobutadiene | 14.220 | 225 | 20348 | 5.00 | ug/Kg | 87 |
| 100) | 1,2,4-Trichlorobenzene | 14.263 | 180 | 30990 | 5.00 | ug/Kg | 93 |
| 101) | Naphthalene | 14.555 | 128 | 72271 | 5.00 | ug/Kg | 94 |
| 102) | 1,2,3-Trichlorobenzene | 14.713 | 180 | 33516 | 5.00 | ug/Kg | 97 |
| 104) | Ethanol | 3.604 | 45 | 3506m | 324.33 | ug/Kg | |
| 105) | Acrolein | 4.012 | 56 | 16012 | 25.00 | ug/Kg | 80 |
| 106) | Tert butyl alcohol | 4.602 | 59 | 31096 | 50.00 | ug/Kg | 92 |
| 107) | Isobutyl alcohol | 6.646 | 42 | 14067 | 100.00 | ug/Kg# | 64 |
| 108) | Tert Amyl Alcohol | 6.750 | 59 | 20082 | 50.00 | ug/Kg | 92 |
| 109) | 1,4-Dioxane | 7.851 | 88 | 3095 | 100.00 | ug/Kg | 93 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

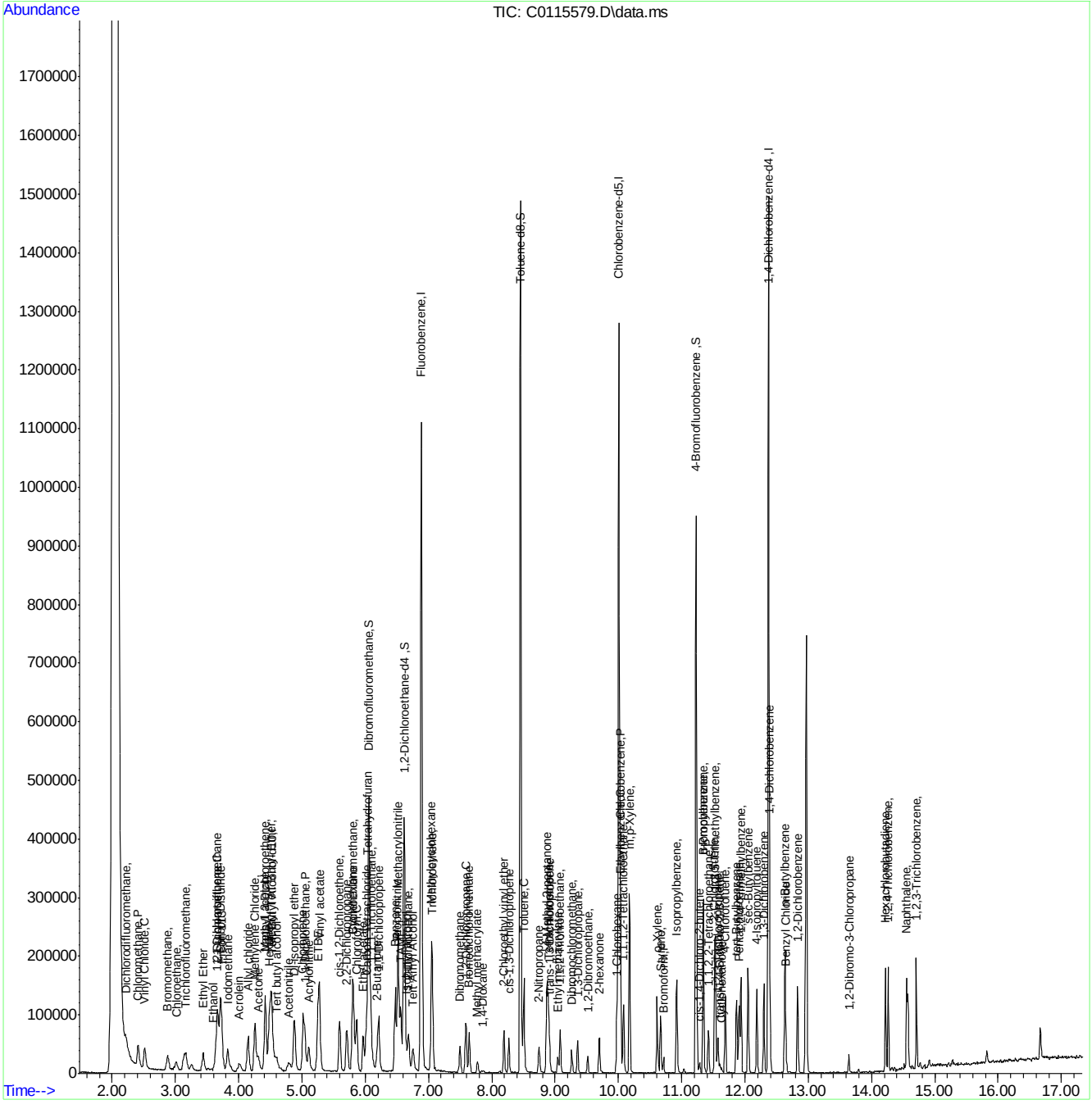



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115579.D
Acq On : 12 May 2016 11:59 am
Operator : ericp
Sample : IC4595-1 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 13:40:46 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration








SGS ACCUTEST FA33878

# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | VC4595-IC4595 | **Method:** | SW846 8260B |
| **Lab FileID:** | C0115579.D | **Analyst approved:** | 05/13/16 08:01 Eric Parrish |
| **Injection Time:** | 05/12/16 11:59 | **Supervisor approved:** | 05/13/16 11:58 Melissa Mangual |

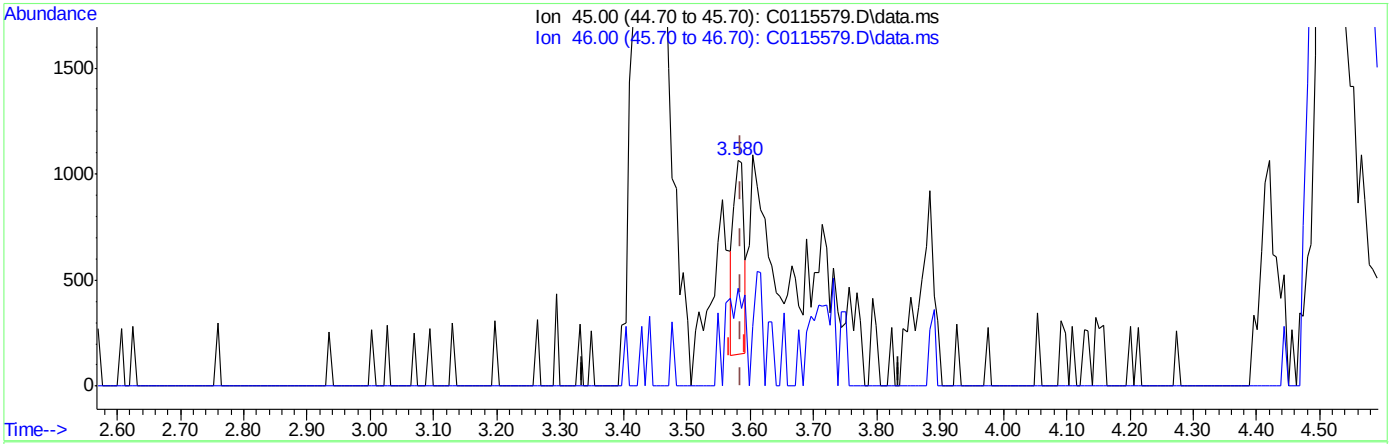
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Ethyl Alcohol | 64-17-5 | | 3.60 | Split peak |

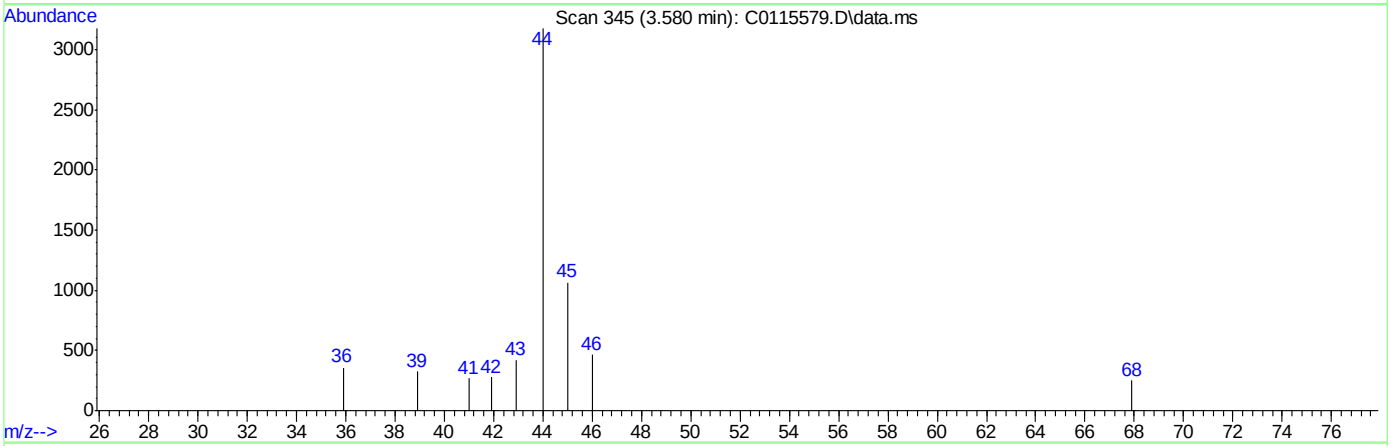
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115579.D
Acq On : 12 May 2016 11:59 am
Operator : ericp
Sample : IC4595-1 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 12:22:20 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration






TIC: C0115579.D\data.ms

(104) Ethanol

3.580min (-0.006) 100.00ug/Kg

response 1081

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 10.40 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

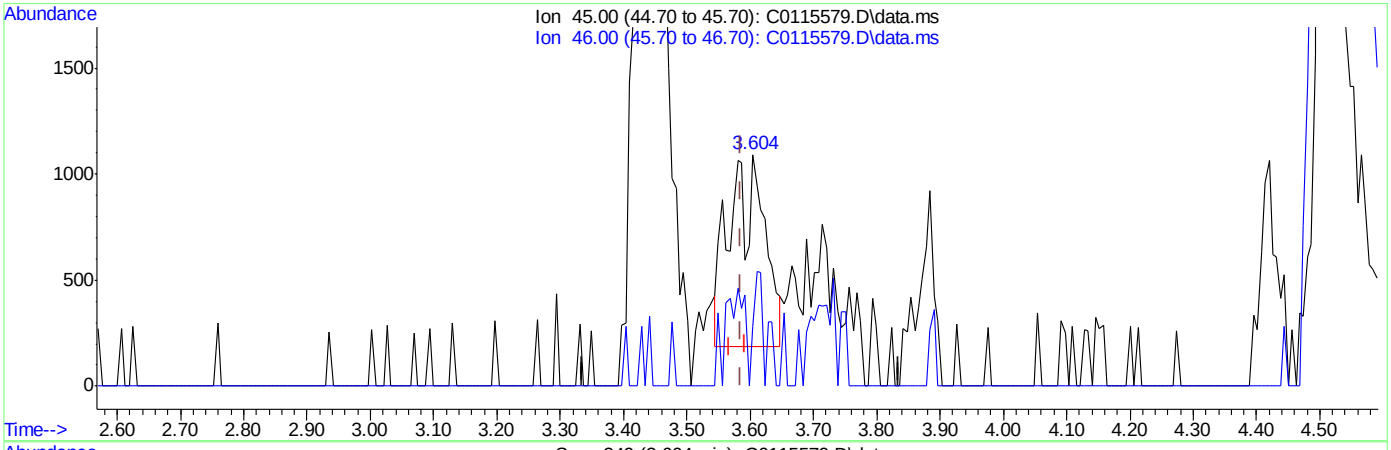


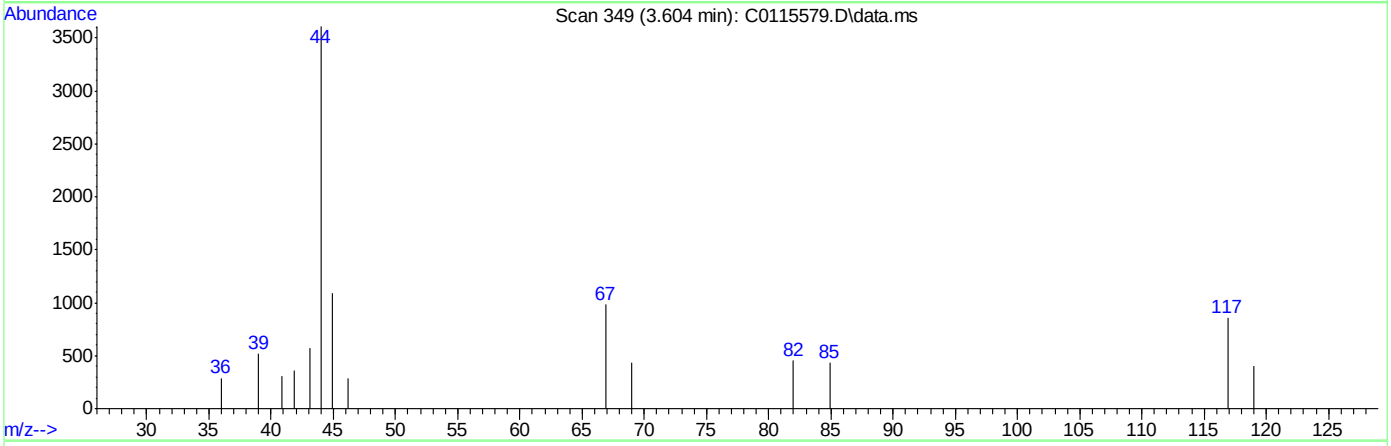
SGS ACCUTEST FA33878

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115579.D
Acq On : 12 May 2016 11:59 am
Operator : ericp
Sample : IC4595-1 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 12:22:20 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration




TIC: C0115579.D\data.ms

(104) Ethanol

3.604min (+0.018) 324.33ug/Kg m

response 3506

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 26.01 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
05/13/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115580.D
Acq On : 12 May 2016 12:25 pm
Operator : ericp
Sample : IC4595-2 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 13:39:59 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Fluorobenzene | 6.889 | 96 | 915264 | 50.00 | ug/Kg | 0.00 |
| 54) Chlorobenzene-d5 | 10.004 | 117 | 596167 | 50.00 | ug/Kg | -0.01 |
| 76) 1,4-Dichlorobenzene-d4 | 12.371 | 152 | 297752 | 50.00 | ug/Kg | -0.02 |
| 103) Tert Butyl Alcohol-d10 | 4.523 | 65 | 110761 | 250.00 | ug/Kg | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 35) Dibromofluoromethane | 6.056 | 113 | 290968 | 50.02 | ug/Kg | -0.01 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 100.04% | | | |
| 44) 1,2-Dichloroethane-d4 | 6.616 | 65 | 320873 | 49.08 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 72 - 135 | | Recovery = 98.16% | | | |
| 55) Toluene-d8 | 8.453 | 98 | 821580 | 48.42 | ug/Kg | -0.01 |
| Spiked Amount 50.000 | Range 75 - 126 | | Recovery = 96.84% | | | |
| 77) 4-Bromofluorobenzene | 11.227 | 174 | 173049 | 49.03 | ug/Kg | -0.01 |
| Spiked Amount 50.000 | Range 71 - 133 | | Recovery = 98.06% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.223 | 85 | 112943 | 9.66 | ug/Kg | 100 |
| 3) Chloromethane | 2.412 | 50 | 112801 | 10.14 | ug/Kg | 99 |
| 4) Vinyl Chloride | 2.521 | 62 | 91339 | 10.36 | ug/Kg | 99 |
| 5) Bromomethane | 2.874 | 94 | 51226 | 10.34 | ug/Kg | 96 |
| 6) Chloroethane | 3.020 | 64 | 44794 | 10.26 | ug/Kg | 89 |
| 7) Trichlorofluoromethane | 3.166 | 101 | 118851 | 10.64 | ug/Kg | 100 |
| 8) Ethyl Ether | 3.440 | 59 | 48354 | 10.70 | ug/Kg | 93 |
| 9) 1,2-Dichlorotrifluoroe... | 3.665 | 67 | 86670 | 9.77 | ug/Kg | 90 |
| 10) 1,1-Dichloroethene | 3.671 | 61 | 120755 | 10.22 | ug/Kg | 98 |
| 11) Freon 113 | 3.720 | 101 | 83206 | 9.97 | ug/Kg | 87 |
| 12) Carbon Disulfide | 3.720 | 76 | 241433 | 9.75 | ug/Kg | 88 |
| 13) Iodomethane | 3.829 | 142 | 118406 | 10.03 | ug/Kg | 96 |
| 14) Allyl chloride | 4.152 | 41 | 94744 | 9.46 | ug/Kg | 81 |
| 15) Methylene Chloride | 4.261 | 49 | 101363 | 8.45 | ug/Kg | 97 |
| 16) Acetone | 4.310 | 43 | 76245 | 41.12 | ug/Kg | 89 |
| 17) Methyl acetate | 4.420 | 43 | 153332 | 46.82 | ug/Kg | 93 |
| 18) trans-1,2-Dichloroethene | 4.420 | 61 | 103541 | 10.48 | ug/Kg | 93 |
| 19) Hexane | 4.480 | 56 | 55487 | 9.62 | ug/Kg | 87 |
| 20) Methyl Tert Butyl Ether | 4.511 | 73 | 167752 | 10.00 | ug/Kg | 90 |
| 21) Acetonitrile | 4.797 | 41 | 42655 | 72.26 | ug/Kg | 90 |
| 22) Di-isopropyl ether | 4.882 | 45 | 174525 | 10.56 | ug/Kg | 95 |
| 23) Chloroprene | 5.022 | 53 | 120908 | 10.15 | ug/Kg | 90 |
| 24) 1,1-Dichloroethane | 5.046 | 63 | 129342 | 10.18 | ug/Kg | 97 |
| 25) Acrylonitrile | 5.101 | 52 | 59827 | 43.72 | ug/Kg | 94 |
| 26) ETBE | 5.253 | 59 | 178088 | 10.48 | ug/Kg | 93 |
| 27) Vinyl acetate | 5.277 | 43 | 368401 | 43.88 | ug/Kg | 97 |
| 28) cis-1,2-Dichloroethene | 5.594 | 96 | 82150 | 10.42 | ug/Kg | 96 |
| 29) 2,2-Dichloropropane | 5.709 | 77 | 96631 | 9.36 | ug/Kg | 97 |
| 30) Bromochloromethane | 5.807 | 128 | 36995 | 10.03 | ug/Kg# | 81 |
| 31) Cyclohexane | 5.807 | 84 | 108264 | 9.72 | ug/Kg | 92 |
| 32) Chloroform | 5.867 | 83 | 141847 | 9.96 | ug/Kg | 96 |
| 33) Ethyl acetate | 5.965 | 43 | 140324 | 45.67 | ug/Kg | 99 |
| 34) Tetrahydrofuran | 6.050 | 42 | 8750 | 6.33 | ug/Kg | 64 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115580.D
Acq On : 12 May 2016 12:25 pm
Operator : ericp
Sample : IC4595-2 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 13:39:59 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 36) Carbon Tetrachloride | 6.026 | 117 | 117172 | 10.07 | ug/Kg | 98 |
| 37) 1,1,1-Trichloroethane | 6.093 | 97 | 123589 | 9.78 | ug/Kg | 93 |
| 38) 2-Butanone | 6.184 | 43 | 81318 | 43.70 | ug/Kg | 92 |
| 39) 1,1-Dichloropropene | 6.214 | 75 | 90663 | 10.06 | ug/Kg | 92 |
| 40) Propionitrile | 6.506 | 54 | 58780 | 92.45 | ug/Kg | 97 |
| 41) Methacrylonitrile | 6.518 | 41 | 216630 | 93.40 | ug/Kg | 94 |
| 42) Benzene | 6.476 | 78 | 256514 | 10.28 | ug/Kg | 95 |
| 43) TAME | 6.561 | 73 | 154295 | 10.22 | ug/Kg | 94 |
| 45) 1,2-Dichloroethane | 6.683 | 62 | 85011 | 9.76 | ug/Kg | 93 |
| 46) Trichloroethene | 7.060 | 95 | 67420 | 10.07 | ug/Kg | 98 |
| 47) Methylcyclohexane | 7.054 | 83 | 115549 | 10.69 | ug/Kg | 98 |
| 48) Dibromomethane | 7.498 | 93 | 36032 | 9.68 | ug/Kg# | 78 |
| 49) 1,2-Dichloropropane | 7.589 | 63 | 55791 | 10.36 | ug/Kg | 79 |
| 50) Bromodichloromethane | 7.644 | 83 | 81126 | 10.04 | ug/Kg | 96 |
| 51) Methyl methacrylate | 7.772 | 41 | 22735 | 13.92 | ug/Kg | 88 |
| 52) 2-Chloroethyl vinyl ether | 8.191 | 63 | 65396 | 67.02 | ug/Kg | 97 |
| 53) cis-1,3-Dichloropropene | 8.270 | 75 | 63832 | 11.17 | ug/Kg | 92 |
| 56) Toluene | 8.508 | 91 | 213977 | 10.28 | ug/Kg | 99 |
| 57) 2-Nitropropane | 8.751 | 41 | 44385 | 44.81 | ug/Kg | 98 |
| 58) 4-Methyl-2-pentanone | 8.867 | 43 | 180586 | 51.47 | ug/Kg | 89 |
| 59) trans-1,3-Dichloropropene | 8.915 | 75 | 44508 | 10.47 | ug/Kg# | 80 |
| 60) Tetrachloroethene | 8.891 | 166 | 55080 | 10.55 | ug/Kg | 95 |
| 61) Ethyl methacrylate | 9.043 | 69 | 26553 | 10.30 | ug/Kg | 89 |
| 62) 1,1,2-Trichloroethane | 9.080 | 83 | 32927 | 9.60 | ug/Kg | 94 |
| 63) Dibromochloromethane | 9.262 | 129 | 42094 | 11.00 | ug/Kg | 98 |
| 64) 1,3-Dichloropropane | 9.359 | 76 | 53994 | 10.11 | ug/Kg | 97 |
| 65) 1,2-Dibromoethane | 9.518 | 107 | 31047 | 10.29 | ug/Kg | 100 |
| 66) 2-hexanone | 9.700 | 43 | 74211 | 53.23 | ug/Kg | 93 |
| 67) 1-Chlorohexane | 9.974 | 91 | 50642 | 12.50 | ug/Kg | 83 |
| 68) Ethylbenzene | 10.035 | 91 | 235560 | 10.64 | ug/Kg | 98 |
| 69) Chlorobenzene | 10.023 | 112 | 127549 | 10.22 | ug/Kg | 96 |
| 70) 1,1,1,2-Tetrachloroethane | 10.083 | 131 | 56233 | 9.66 | ug/Kg | 86 |
| 71) m,p-Xylene | 10.175 | 91 | 338785 | 22.47 | ug/Kg | 99 |
| 72) o-Xylene | 10.613 | 91 | 163468 | 12.25 | ug/Kg | 99 |
| 73) Styrene | 10.667 | 104 | 104970 | 12.76 | ug/Kg | 95 |
| 74) Bromoform | 10.716 | 173 | 20287 | 10.99 | ug/Kg | 93 |
| 75) Isopropylbenzene | 10.923 | 105 | 201692 | 12.31 | ug/Kg | 97 |
| 78) cis-1,4-Dichloro-2-butene | 11.288 | 53 | 6331 | 10.10 | ug/Kg# | 72 |
| 79) n-Propylbenzene | 11.343 | 91 | 258214 | 11.52 | ug/Kg | 97 |
| 80) Bromobenzene | 11.343 | 156 | 49686 | 10.64 | ug/Kg | 95 |
| 81) 1,1,2,2-Tetrachloroethane | 11.422 | 83 | 57017 | 9.91 | ug/Kg | 93 |
| 82) 1,3,5-Trimethylbenzene | 11.531 | 105 | 194990 | 12.63 | ug/Kg | 95 |
| 83) 2-Chlorotoluene | 11.519 | 91 | 191449 | 11.52 | ug/Kg | 92 |
| 84) trans-1,4-Dichloro-2-B... | 11.604 | 53 | 7761 | 11.50 | ug/Kg | 86 |
| 85) 1,2,3-Trichloropropane | 11.574 | 110 | 14504 | 9.31 | ug/Kg | 95 |
| 86) Cyclohexanone | 11.629 | 55 | 5815 | 44.50 | ug/Kg | 86 |
| 87) 4-Chlorotoluene | 11.689 | 91 | 150294 | 11.61 | ug/Kg | 98 |
| 88) tert-Butylbenzene | 11.866 | 91 | 102583 | 13.96 | ug/Kg | 92 |
| 89) 1,2,4-Trimethylbenzene | 11.939 | 105 | 188146 | 12.73 | ug/Kg | 100 |
| 90) Pentachloroethane | 11.908 | 167 | 31035 | 10.62 | ug/Kg# | 81 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115580.D
Acq On : 12 May 2016 12:25 pm
Operator : ericp
Sample : IC4595-2 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 13:39:59 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 91) | sec-Butylbenzene | 12.048 | 105 | 229098 | 12.30 | ug/Kg | 95 |
| 92) | 4-Isopropyltoluene | 12.188 | 119 | 178307 | 13.68 | ug/Kg | 96 |
| 93) | 1,3-Dichlorobenzene | 12.298 | 146 | 102418 | 10.73 | ug/Kg | 95 |
| 94) | 1,4-Dichlorobenzene | 12.389 | 146 | 96558 | 9.63 | ug/Kg | 98 |
| 95) | n-Butylbenzene | 12.632 | 92 | 106673 | 12.55 | ug/Kg# | 75 |
| 96) | Benzyl Chloride | 12.638 | 126 | 18450 | 11.81 | ug/Kg# | 74 |
| 97) | 1,2-Dichlorobenzene | 12.833 | 146 | 98104 | 10.19 | ug/Kg | 94 |
| 98) | 1,2-Dibromo-3-Chloropr... | 13.642 | 75 | 10969 | 8.50 | ug/Kg# | 76 |
| 99) | Hexachlorobutadiene | 14.220 | 225 | 40581 | 9.47 | ug/Kg | 84 |
| 100) | 1,2,4-Trichlorobenzene | 14.263 | 180 | 69378 | 10.63 | ug/Kg | 95 |
| 101) | Naphthalene | 14.555 | 128 | 161649 | 10.62 | ug/Kg | 98 |
| 102) | 1,2,3-Trichlorobenzene | 14.713 | 180 | 75378 | 10.68 | ug/Kg | 94 |
| 104) | Ethanol | 3.586 | 45 | 6409m | 652.64 | ug/Kg | |
| 105) | Acrolein | 4.012 | 56 | 31423 | 54.01 | ug/Kg | 100 |
| 106) | Tert butyl alcohol | 4.596 | 59 | 55219 | 97.74 | ug/Kg | 93 |
| 107) | Isobutyl alcohol | 6.646 | 42 | 19340 | 151.34 | ug/Kg | 92 |
| 108) | Tert Amyl Alcohol | 6.750 | 59 | 37641 | 103.17 | ug/Kg | 92 |
| 109) | 1,4-Dioxane | 7.851 | 88 | 7353 | 261.53 | ug/Kg | 95 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

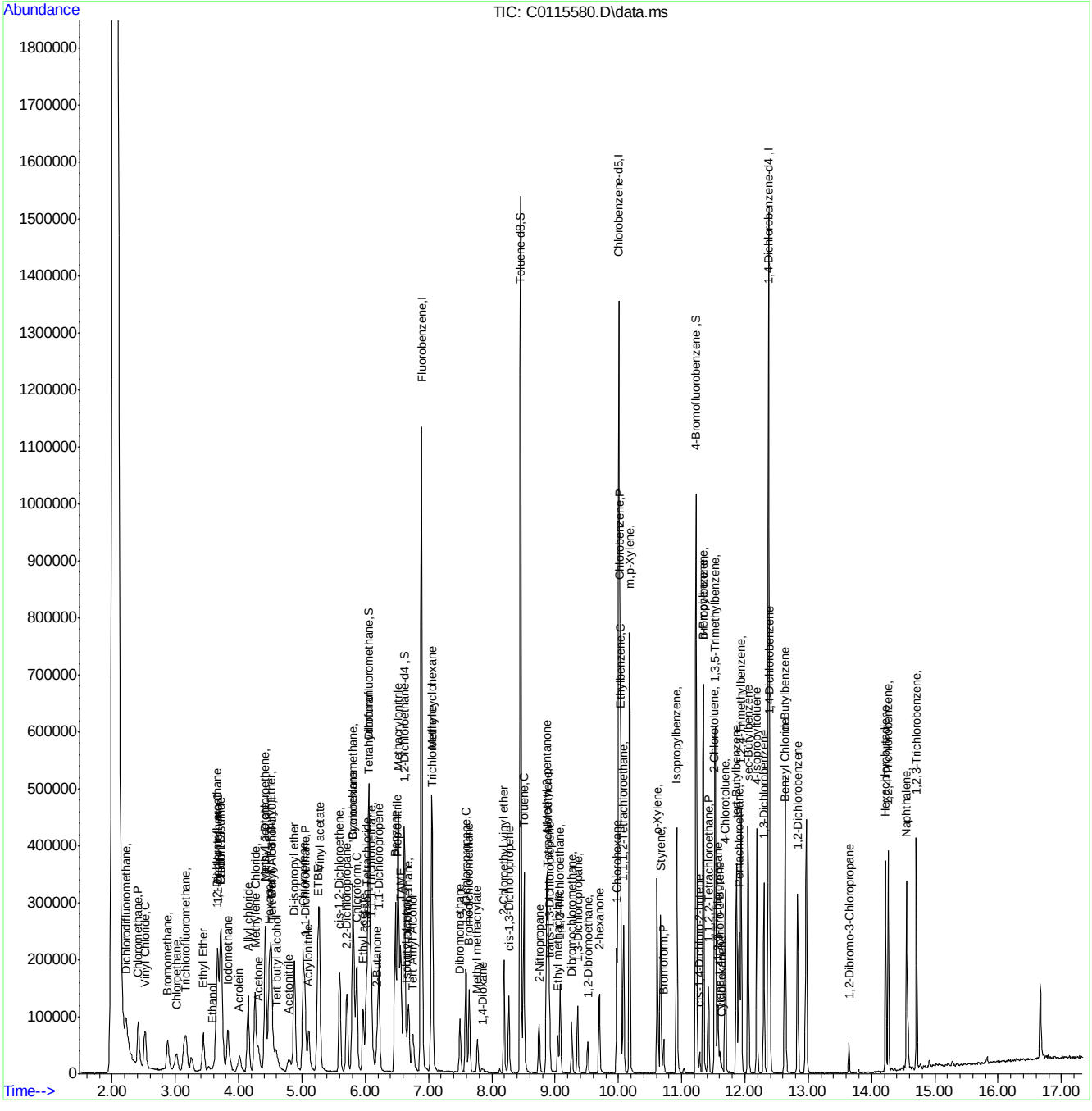



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115580.D
Acq On : 12 May 2016 12:25 pm
Operator : ericp
Sample : IC4595-2 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 13:39:59 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration










SGS ACCUTEST FA33878

# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | VC4595-IC4595 | **Method:** | SW846 8260B |
| **Lab FileID:** | C0115580.D | **Analyst approved:** | 05/13/16 08:01 Eric Parrish |
| **Injection Time:** | 05/12/16 12:25 | **Supervisor approved:** | 05/13/16 11:58 Melissa Mangual |

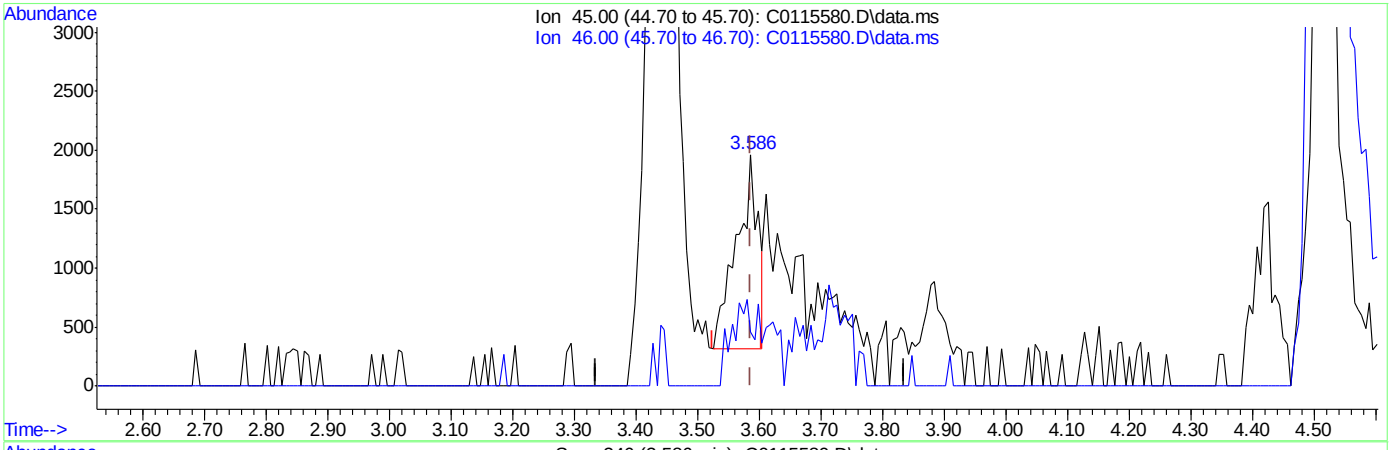
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Ethyl Alcohol | 64-17-5 | | 3.59 | Split peak |

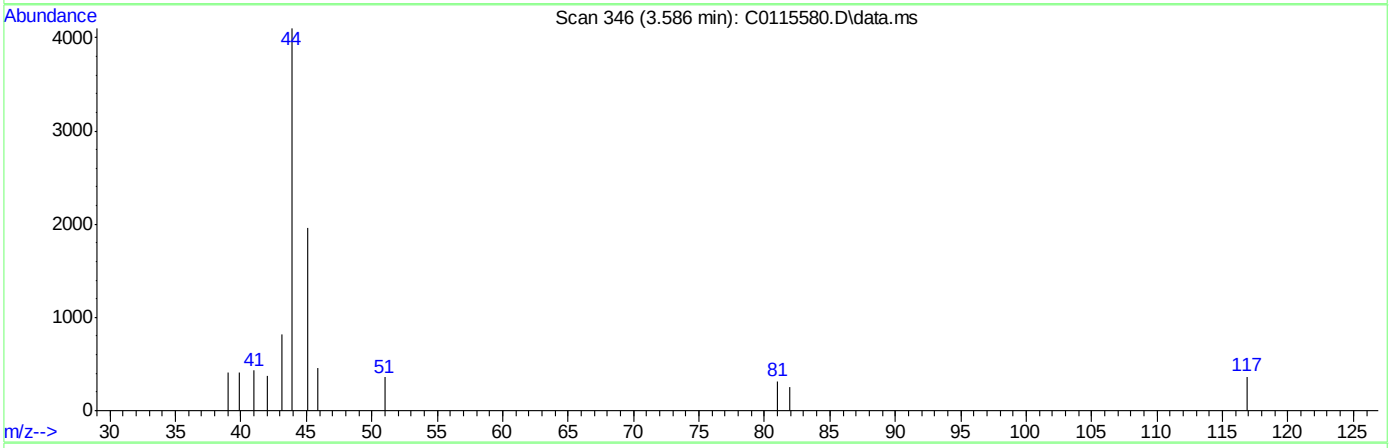
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115580.D
Acq On : 12 May 2016 12:25 pm
Operator : ericp
Sample : IC4595-2 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 12:43:15 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration






TIC: C0115580.D\data.ms

(104) Ethanol

3.586min (+0.000) 411.40ug/Kg

response 4040

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 28.02 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



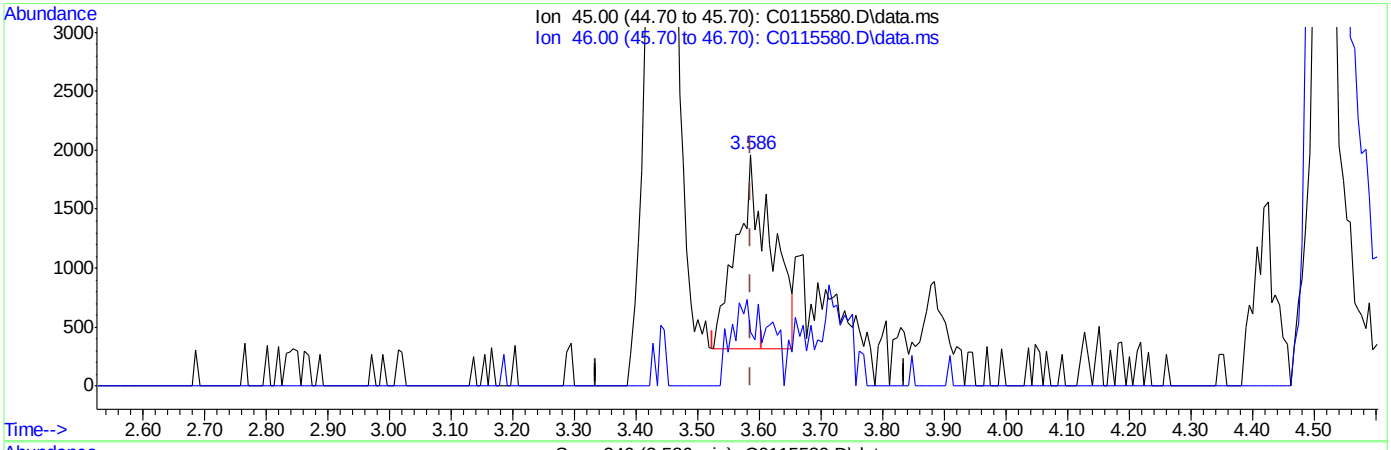
SGS ACCUTEST FA33878

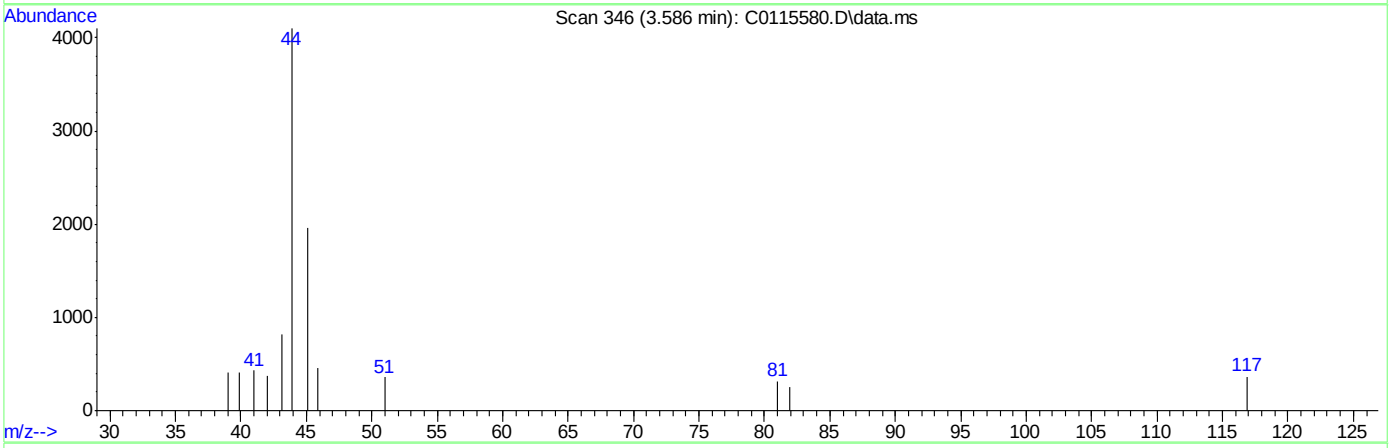
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115580.D
Acq On : 12 May 2016 12:25 pm
Operator : ericp
Sample : IC4595-2 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 12:43:15 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration






TIC: C0115580.D\data.ms

(104) Ethanol

3.586min (+0.000) 652.64ug/Kg m

response 6409

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 23.54 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:58

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115581.D
Acq On : 12 May 2016 12:51 pm
Operator : ericp
Sample : IC4595-3 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 07:23:45 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:09:20 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Fluorobenzene | 6.890 | 96 | 894471 | 50.00 | ug/Kg | 0.00 |
| 54) Chlorobenzene-d5 | 10.004 | 117 | 601655 | 50.00 | ug/Kg | -0.01 |
| 76) 1,4-Dichlorobenzene-d4 | 12.371 | 152 | 284159 | 50.00 | ug/Kg | -0.02 |
| 103) Tert Butyl Alcohol-d10 | 4.529 | 65 | 99651 | 250.00 | ug/Kg | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 35) Dibromofluoromethane | 6.056 | 113 | 263701 | 47.52 | ug/Kg | -0.01 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 95.04% | | | |
| 44) 1,2-Dichloroethane-d4 | 6.616 | 65 | 299512 | 48.18 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 72 - 135 | | Recovery = 96.36% | | | |
| 55) Toluene-d8 | 8.453 | 98 | 848213 | 50.22 | ug/Kg | -0.01 |
| Spiked Amount 50.000 | Range 75 - 126 | | Recovery = 100.44% | | | |
| 77) 4-Bromofluorobenzene | 11.227 | 174 | 180730 | 52.71 | ug/Kg | -0.01 |
| Spiked Amount 50.000 | Range 71 - 133 | | Recovery = 105.42% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.230 | 85 | 217475 | 19.57 | ug/Kg | 95 |
| 3) Chloromethane | 2.418 | 50 | 217816 | 19.93 | ug/Kg | 99 |
| 4) Vinyl Chloride | 2.528 | 62 | 179858 | 20.34 | ug/Kg | 95 |
| 5) Bromomethane | 2.881 | 94 | 93514 | 19.32 | ug/Kg | 97 |
| 6) Chloroethane | 3.014 | 64 | 80544 | 19.07 | ug/Kg | 94 |
| 7) Trichlorofluoromethane | 3.167 | 101 | 236262 | 20.64 | ug/Kg | 93 |
| 8) Ethyl Ether | 3.440 | 59 | 90810 | 19.91 | ug/Kg | 92 |
| 9) 1,2-Dichlorotrifluoroe... | 3.659 | 67 | 163485 | 19.37 | ug/Kg | 85 |
| 10) 1,1-Dichloroethene | 3.671 | 61 | 224108 | 19.46 | ug/Kg | 97 |
| 11) Freon 113 | 3.726 | 101 | 140014 | 18.04 | ug/Kg | 89 |
| 12) Carbon Disulfide | 3.720 | 76 | 449195 | 19.18 | ug/Kg | 94 |
| 13) Iodomethane | 3.830 | 142 | 226639 | 19.74 | ug/Kg | 95 |
| 14) Allyl chloride | 4.152 | 41 | 195730 | 20.36 | ug/Kg | 82 |
| 15) Methylene Chloride | 4.262 | 49 | 181625 | 17.74 | ug/Kg | 98 |
| 16) Acetone | 4.310 | 43 | 149770 | 93.60 | ug/Kg | 93 |
| 17) Methyl acetate | 4.420 | 43 | 276108m | 90.76 | ug/Kg | |
| 18) trans-1,2-Dichloroethene | 4.420 | 61 | 186206 | 19.21 | ug/Kg | 94 |
| 19) Hexane | 4.487 | 56 | 97669 | 18.38 | ug/Kg | 93 |
| 20) Methyl Tert Butyl Ether | 4.511 | 73 | 316861 | 19.55 | ug/Kg | 90 |
| 21) Acetonitrile | 4.791 | 41 | 84412 | 178.86 | ug/Kg | 88 |
| 22) Di-isopropyl ether | 4.882 | 45 | 330022 | 19.91 | ug/Kg | 96 |
| 23) Chloroprene | 5.022 | 53 | 236772 | 20.12 | ug/Kg | 93 |
| 24) 1,1-Dichloroethane | 5.046 | 63 | 241962 | 19.54 | ug/Kg | 99 |
| 25) Acrylonitrile | 5.107 | 52 | 118730 | 96.42 | ug/Kg | 86 |
| 26) ETBE | 5.253 | 59 | 341370 | 20.05 | ug/Kg | 95 |
| 27) Vinyl acetate | 5.278 | 43 | 827704 | 104.85 | ug/Kg | 97 |
| 28) cis-1,2-Dichloroethene | 5.594 | 96 | 151622 | 19.51 | ug/Kg | 97 |
| 29) 2,2-Dichloropropane | 5.709 | 77 | 182618 | 19.11 | ug/Kg | 92 |
| 30) Bromochloromethane | 5.807 | 128 | 66573 | 18.93 | ug/Kg# | 85 |
| 31) Cyclohexane | 5.807 | 84 | 207299 | 19.54 | ug/Kg | 93 |
| 32) Chloroform | 5.868 | 83 | 270537 | 19.65 | ug/Kg | 97 |
| 33) Ethyl acetate | 5.965 | 43 | 301967 | 103.35 | ug/Kg | 98 |
| 34) Tetrahydrofuran | 6.044 | 42 | 18556 | 17.77 | ug/Kg | 93 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115581.D
Acq On : 12 May 2016 12:51 pm
Operator : ericp
Sample : IC4595-3 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 07:23:45 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:09:20 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) | Carbon Tetrachloride | 6.020 | 117 | 252406 | 21.37 | ug/Kg | 96 |
| 37) | 1,1,1-Trichloroethane | 6.093 | 97 | 245338 | 20.06 | ug/Kg | 96 |
| 38) | 2-Butanone | 6.184 | 43 | 174793 | 101.70 | ug/Kg | 97 |
| 39) | 1,1-Dichloropropene | 6.214 | 75 | 177114 | 20.04 | ug/Kg | 92 |
| 40) | Propionitrile | 6.506 | 54 | 112943 | 192.46 | ug/Kg | 92 |
| 41) | Methacrylonitrile | 6.519 | 41 | 445662 | 202.20 | ug/Kg | 92 |
| 42) | Benzene | 6.476 | 78 | 498146 | 20.10 | ug/Kg | 96 |
| 43) | TAME | 6.561 | 73 | 286775 | 19.47 | ug/Kg | 95 |
| 45) | 1,2-Dichloroethane | 6.683 | 62 | 168173 | 20.00 | ug/Kg | 94 |
| 46) | Trichloroethene | 7.060 | 95 | 130037 | 19.87 | ug/Kg | 96 |
| 47) | Methylcyclohexane | 7.048 | 83 | 216655 | 19.88 | ug/Kg | 95 |
| 48) | Dibromomethane | 7.498 | 93 | 71236 | 19.93 | ug/Kg | 87 |
| 49) | 1,2-Dichloropropane | 7.589 | 63 | 108963 | 20.22 | ug/Kg | 83 |
| 50) | Bromodichloromethane | 7.644 | 83 | 159042 | 20.07 | ug/Kg | 95 |
| 51) | Methyl methacrylate | 7.772 | 41 | 49454 | 23.58 | ug/Kg | 88 |
| 52) | 2-Chloroethyl vinyl ether | 8.192 | 63 | 186536 | 136.59 | ug/Kg | 95 |
| 53) | cis-1,3-Dichloropropene | 8.271 | 75 | 148805 | 23.17 | ug/Kg | 96 |
| 56) | Toluene | 8.508 | 91 | 443495 | 20.54 | ug/Kg | 95 |
| 57) | 2-Nitropropane | 8.745 | 41 | 106332 | 107.81 | ug/Kg | 96 |
| 58) | 4-Methyl-2-pentanone | 8.867 | 43 | 410939 | 109.14 | ug/Kg | 92 |
| 59) | trans-1,3-Dichloropropene | 8.915 | 75 | 102371 | 22.09 | ug/Kg# | 81 |
| 60) | Tetrachloroethene | 8.897 | 166 | 103314 | 19.38 | ug/Kg | 96 |
| 61) | Ethyl methacrylate | 9.043 | 69 | 68579 | 23.62 | ug/Kg | 90 |
| 62) | 1,1,2-Trichloroethane | 9.080 | 83 | 69462 | 20.31 | ug/Kg | 96 |
| 63) | Dibromochloromethane | 9.262 | 129 | 87179 | 20.98 | ug/Kg | 89 |
| 64) | 1,3-Dichloropropane | 9.360 | 76 | 118400 | 21.20 | ug/Kg | 96 |
| 65) | 1,2-Dibromoethane | 9.512 | 107 | 70503 | 21.80 | ug/Kg | 99 |
| 66) | 2-hexanone | 9.694 | 43 | 197574 | 121.45 | ug/Kg | 95 |
| 67) | 1-Chlorohexane | 9.974 | 91 | 121321 | 23.84 | ug/Kg | 88 |
| 68) | Ethylbenzene | 10.035 | 91 | 477166 | 20.46 | ug/Kg | 99 |
| 69) | Chlorobenzene | 10.023 | 112 | 261146 | 20.34 | ug/Kg | 98 |
| 70) | 1,1,1,2-Tetrachloroethane | 10.084 | 131 | 111954 | 19.59 | ug/Kg | 86 |
| 71) | m,p-Xylene | 10.175 | 91 | 722777 | 43.04 | ug/Kg | 99 |
| 72) | o-Xylene | 10.613 | 91 | 390562 | 23.68 | ug/Kg | 99 |
| 73) | Styrene | 10.668 | 104 | 237212 | 23.14 | ug/Kg | 96 |
| 74) | Bromoform | 10.716 | 173 | 44124 | 21.64 | ug/Kg | 93 |
| 75) | Isopropylbenzene | 10.923 | 105 | 460921 | 23.07 | ug/Kg | 98 |
| 78) | cis-1,4-Dichloro-2-butene | 11.288 | 53 | 16879 | 24.74 | ug/Kg | 81 |
| 79) | n-Propylbenzene | 11.343 | 91 | 532564 | 21.99 | ug/Kg | 96 |
| 80) | Bromobenzene | 11.343 | 156 | 97816 | 20.83 | ug/Kg | 96 |
| 81) | 1,1,2,2-Tetrachloroethane | 11.422 | 83 | 116932 | 20.91 | ug/Kg | 95 |
| 82) | 1,3,5-Trimethylbenzene | 11.531 | 105 | 407145 | 22.75 | ug/Kg | 98 |
| 83) | 2-Chlorotoluene | 11.519 | 91 | 387846 | 21.74 | ug/Kg | 94 |
| 84) | trans-1,4-Dichloro-2-B... | 11.604 | 53 | 17091 | 22.90 | ug/Kg | 90 |
| 85) | 1,2,3-Trichloropropane | 11.574 | 110 | 29053 | 20.16 | ug/Kg | 98 |
| 86) | Cyclohexanone | 11.629 | 55 | 14495 | 114.24 | ug/Kg | 93 |
| 87) | 4-Chlorotoluene | 11.690 | 91 | 311701 | 22.12 | ug/Kg | 97 |
| 88) | tert-Butylbenzene | 11.866 | 91 | 247996 | 25.48 | ug/Kg | 93 |
| 89) | 1,2,4-Trimethylbenzene | 11.939 | 105 | 390983 | 22.73 | ug/Kg | 98 |
| 90) | Pentachloroethane | 11.909 | 167 | 66160 | 21.91 | ug/Kg | 88 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115581.D
Acq On : 12 May 2016 12:51 pm
Operator : ericp
Sample : IC4595-3 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 07:23:45 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:09:20 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) sec-Butylbenzene | 12.049 | 105 | 491352 | 22.96 | ug/Kg | 95 |
| 92) 4-Isopropyltoluene | 12.188 | 119 | 393836 | 24.04 | ug/Kg | 96 |
| 93) 1,3-Dichlorobenzene | 12.298 | 146 | 188183 | 19.95 | ug/Kg | 97 |
| 94) 1,4-Dichlorobenzene | 12.389 | 146 | 179447 | 19.40 | ug/Kg | 96 |
| 95) n-Butylbenzene | 12.633 | 92 | 220580 | 22.57 | ug/Kg# | 77 |
| 96) Benzyl Chloride | 12.645 | 126 | 38177 | 22.19 | ug/Kg# | 49 |
| 97) 1,2-Dichlorobenzene | 12.833 | 146 | 195122 | 20.68 | ug/Kg | 96 |
| 98) 1,2-Dibromo-3-Chloropr... | 13.642 | 75 | 23446 | 20.39 | ug/Kg | 84 |
| 99) Hexachlorobutadiene | 14.220 | 225 | 73977 | 19.03 | ug/Kg | 81 |
| 100) 1,2,4-Trichlorobenzene | 14.263 | 180 | 122514 | 19.37 | ug/Kg | 94 |
| 101) Naphthalene | 14.555 | 128 | 342090 | 21.81 | ug/Kg | 100 |
| 102) 1,2,3-Trichlorobenzene | 14.713 | 180 | 128101 | 18.90 | ug/Kg | 98 |
| 104) Ethanol | 3.586 | 45 | 14321m | 1354.17 | ug/Kg | |
| 105) Acrolein | 4.024 | 56 | 69132 | 116.50 | ug/Kg | 98 |
| 106) Tert butyl alcohol | 4.596 | 59 | 104165 | 204.79 | ug/Kg | 95 |
| 107) Isobutyl alcohol | 6.652 | 42 | 41696 | 408.50 | ug/Kg | 82 |
| 108) Tert Amyl Alcohol | 6.750 | 59 | 80148 | 225.21 | ug/Kg | 93 |
| 109) 1,4-Dioxane | 7.845 | 88 | 16854 | 503.06 | ug/Kg | 90 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.3

7

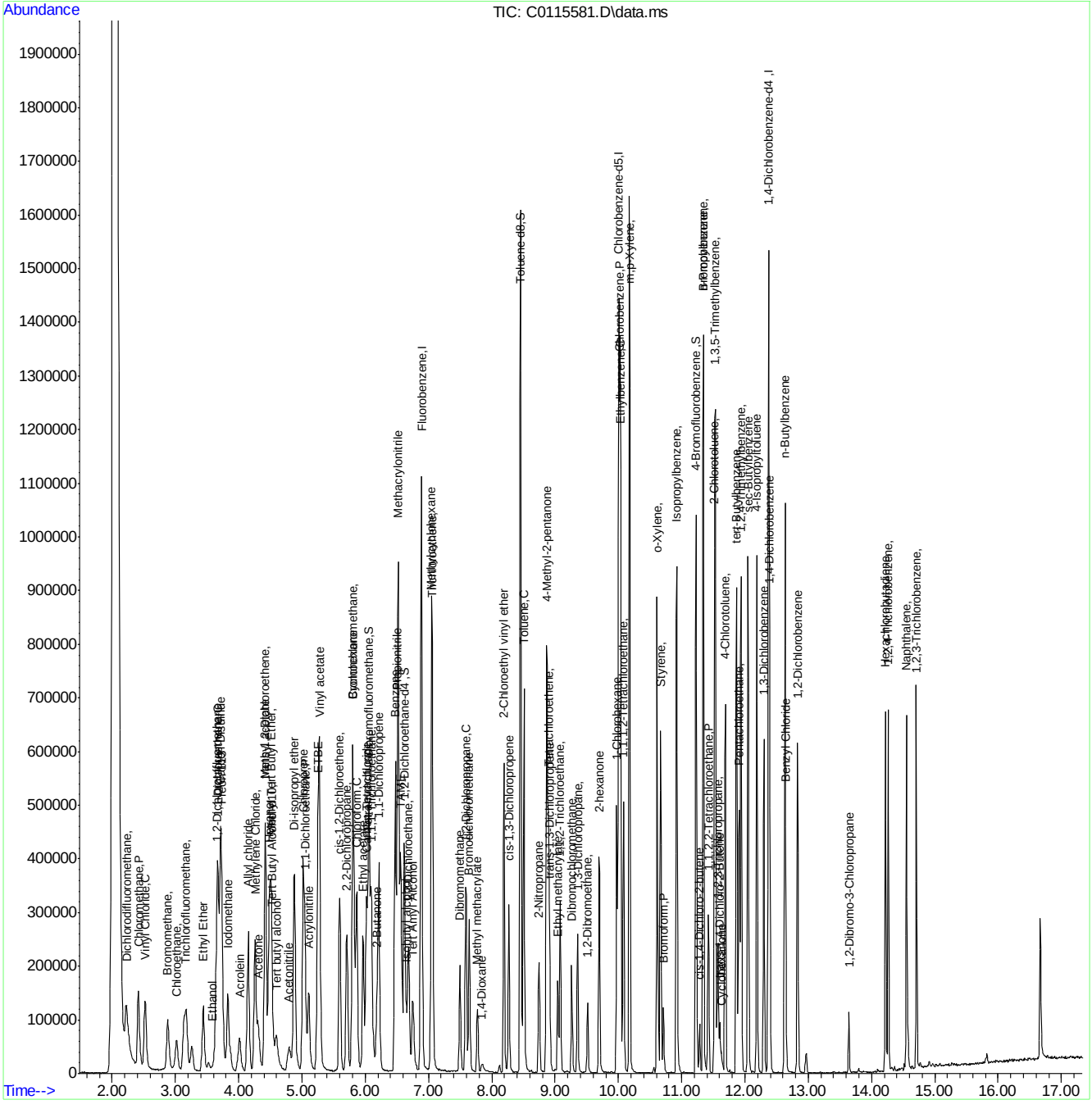


SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115581.D
Acq On : 12 May 2016 12:51 pm
Operator : ericp
Sample : IC4595-3 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 07:23:45 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:09:20 2016
Response via : Initial Calibration










SGS ACCUTEST FA33878

# Manual Integration Approval Summary



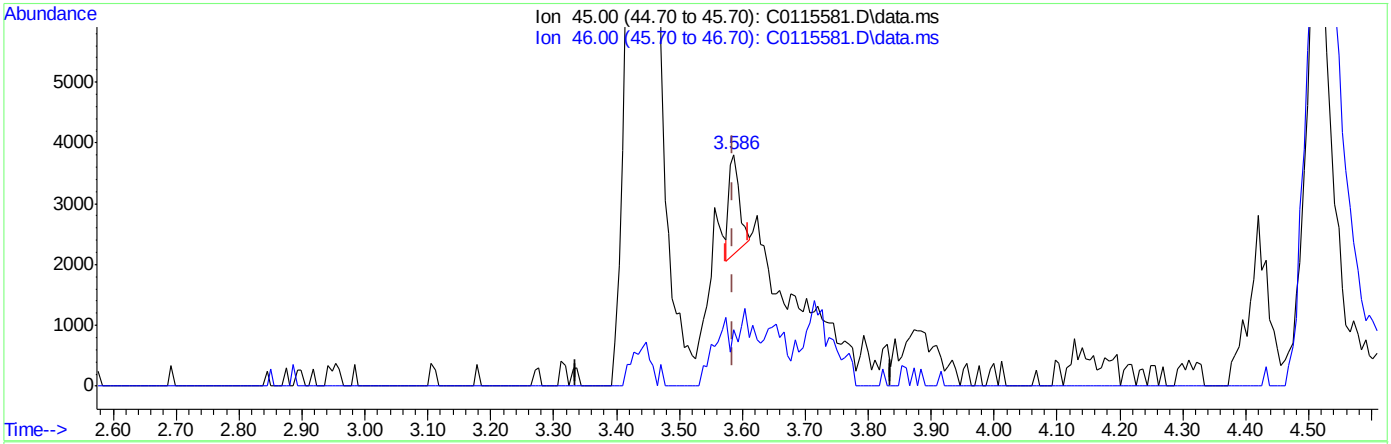
| | | | |
|---|---|---|---|
| **Sample Number:** | VC4595-IC4595 | **Method:** | SW846 8260B |
| **Lab FileID:** | C0115581.D | **Analyst approved:** | 05/13/16 08:01 Eric Parrish |
| **Injection Time:** | 05/12/16 12:51 | **Supervisor approved:** | 05/13/16 11:58 Melissa Mangual |

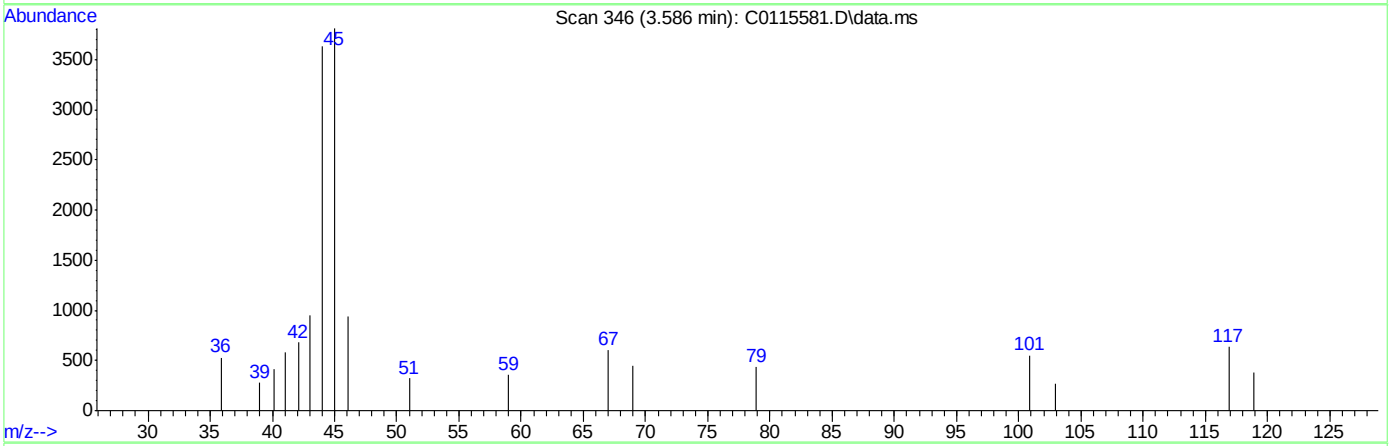
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Ethyl Alcohol | 64-17-5 | | 3.59 | Split peak |
| Methyl Acetate | 79-20-9 | | 4.42 | Overlapping peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115581.D
Acq On : 12 May 2016 12:51 pm
Operator : ericp
Sample : IC4595-3 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 12 13:16:02 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:09:20 2016
Response via : Initial Calibration




TIC: C0115581.D\data.ms

(104) Ethanol

3.586min (+0.000) 178.43ug/Kg

response 1887

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 9.77 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

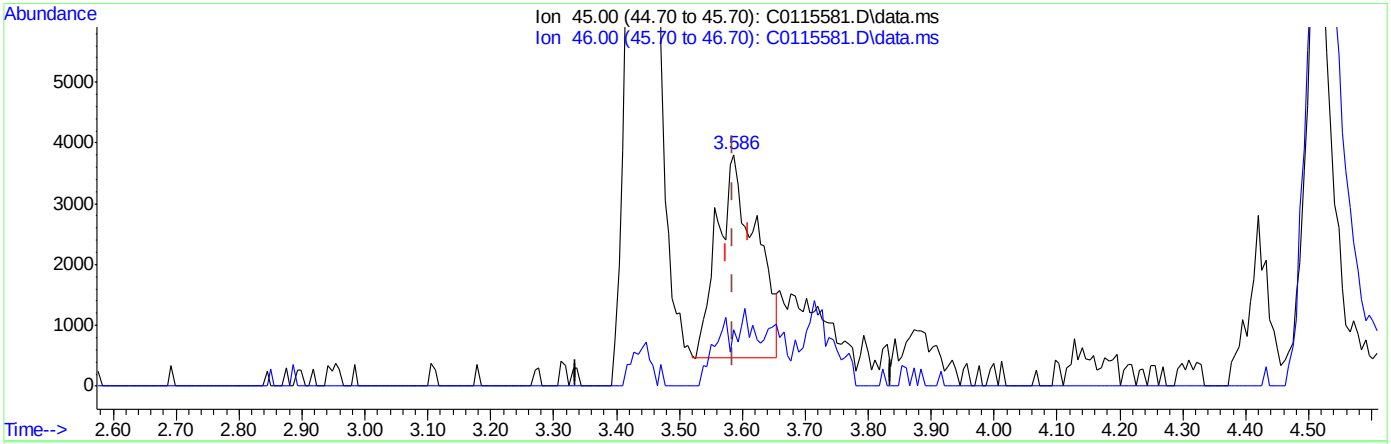


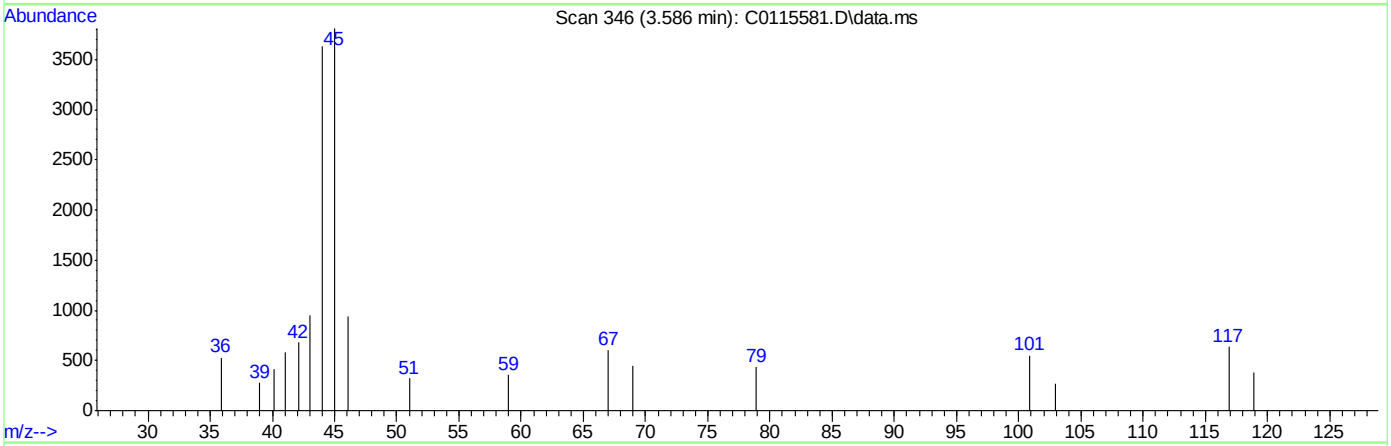
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115581.D
Acq On : 12 May 2016 12:51 pm
Operator : ericp
Sample : IC4595-3 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 12 13:16:02 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:09:20 2016
Response via : Initial Calibration




TIC: C0115581.D\data.ms

(104) Ethanol

3.586min (+0.000) 1354.17ug/Kg m

response 14321

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 24.57 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

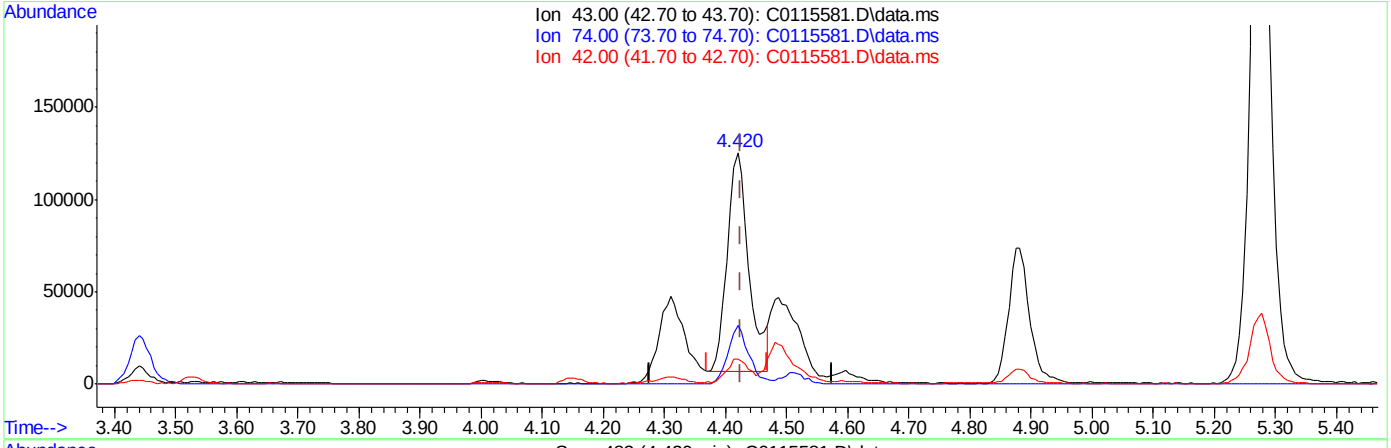


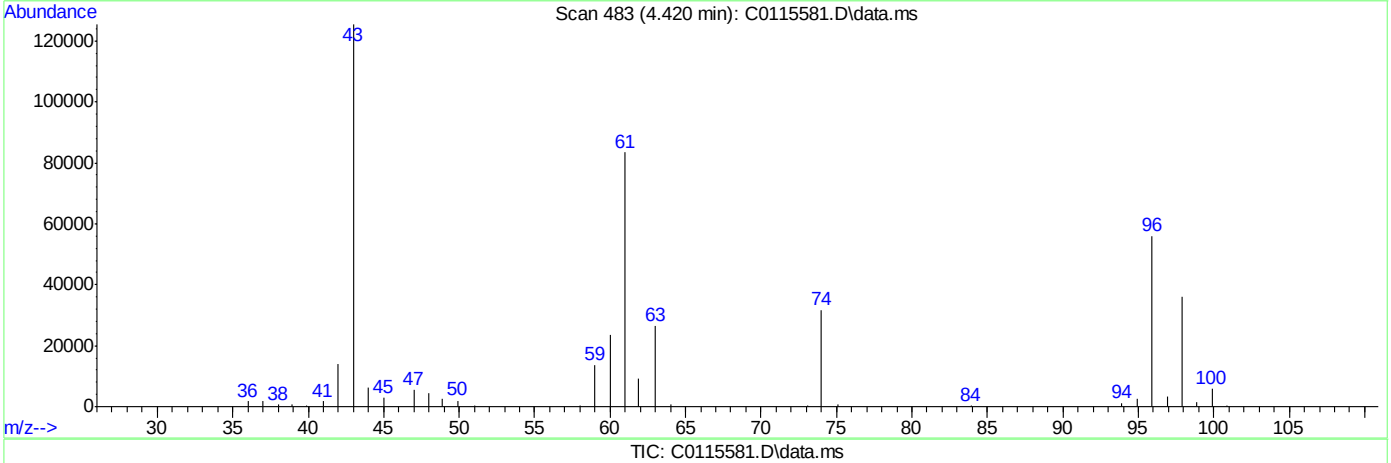
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115581.D
Acq On : 12 May 2016 12:51 pm
Operator : ericp
Sample : IC4595-3 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 12 13:38:57 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:09:20 2016
Response via : Initial Calibration




TIC: C0115581.D\data.ms

(17) Methyl acetate

4.420min (-0.006) 96.28ug/Kg

response 292915

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 74.00 | 28.40 | 26.82 |
| 42.00 | 15.10 | 10.71 |
| 0.00 | 0.00 | 0.00 |

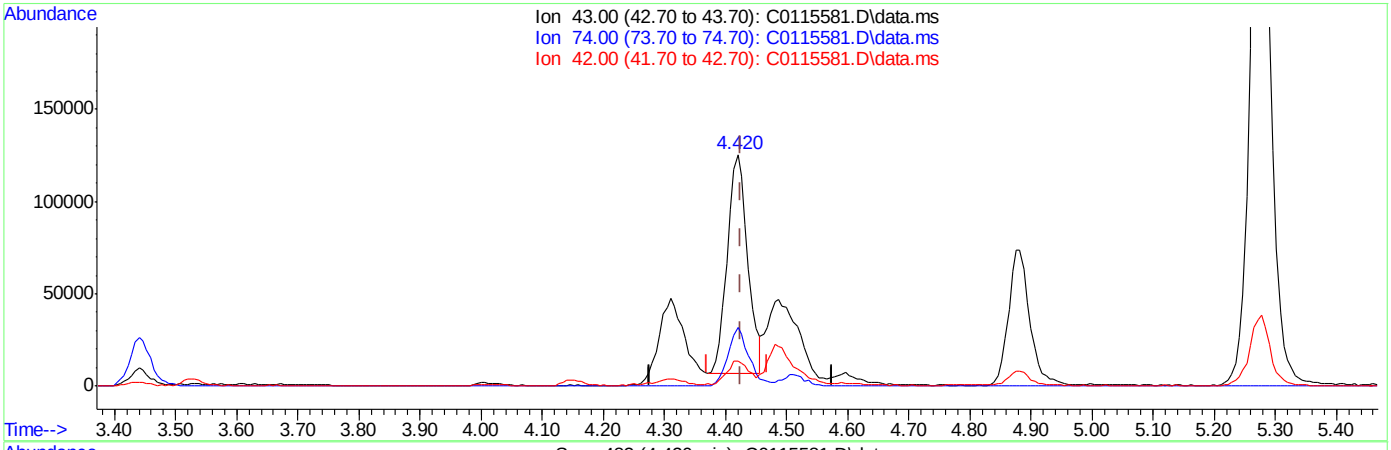


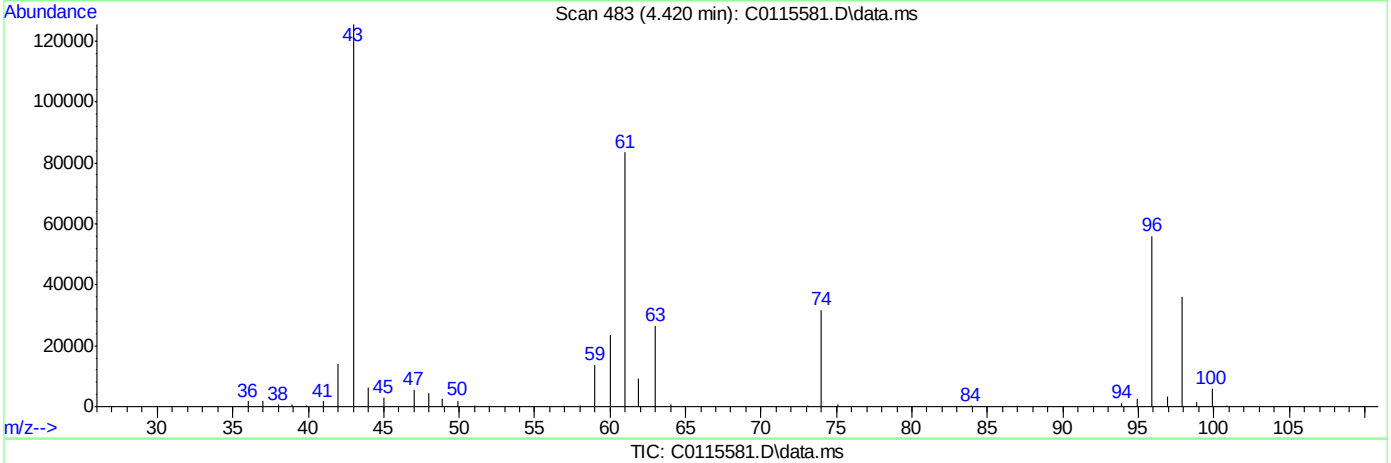
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115581.D
Acq On : 12 May 2016 12:51 pm
Operator : ericp
Sample : IC4595-3 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 12 13:38:57 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:09:20 2016
Response via : Initial Calibration




TIC: C0115581.D\data.ms

(17) Methyl acetate

4.420min (-0.006) 90.76ug/Kg m

response 276108

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 74.00 | 28.40 | 25.29 |
| 42.00 | 15.10 | 11.02 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:58

# Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115582.D
Acq On : 12 May 2016 1:16 pm
Operator : ericp
Sample : ICC4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 07:23:13 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:17:16 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Fluorobenzene | 6.884 | 96 | 956915 | 50.00 | ug/Kg | -0.01 |
| 54) Chlorobenzene-d5 | 10.004 | 117 | 606301 | 50.00 | ug/Kg | -0.01 |
| 76) 1,4-Dichlorobenzene-d4 | 12.371 | 152 | 290940 | 50.00 | ug/Kg | -0.02 |
| 103) Tert Butyl Alcohol-d10 | 4.523 | 65 | 96168 | 250.00 | ug/Kg | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 35) Dibromofluoromethane | 6.056 | 113 | 277941 | 46.82 | ug/Kg | -0.01 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 93.64% | | | |
| 44) 1,2-Dichloroethane-d4 | 6.616 | 65 | 309335 | 46.51 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 72 - 135 | | Recovery = 93.02% | | | |
| 55) Toluene-d8 | 8.453 | 98 | 896191 | 52.65 | ug/Kg | -0.01 |
| Spiked Amount 50.000 | Range 75 - 126 | | Recovery = 105.30% | | | |
| 77) 4-Bromofluorobenzene | 11.227 | 174 | 190458 | 54.25 | ug/Kg | -0.01 |
| Spiked Amount 50.000 | Range 71 - 133 | | Recovery = 108.50% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.224 | 85 | 520326 | 43.77 | ug/Kg | 93 |
| 3) Chloromethane | 2.412 | 50 | 503697 | 43.08 | ug/Kg | 99 |
| 4) Vinyl Chloride | 2.522 | 62 | 411678 | 43.51 | ug/Kg | 99 |
| 5) Bromomethane | 2.874 | 94 | 185022 | 35.73 | ug/Kg | 97 |
| 6) Chloroethane | 3.021 | 64 | 158802 | 35.14 | ug/Kg | 91 |
| 7) Trichlorofluoromethane | 3.167 | 101 | 551651 | 45.04 | ug/Kg | 99 |
| 8) Ethyl Ether | 3.440 | 59 | 217267 | 44.52 | ug/Kg | 92 |
| 9) 1,2-Dichlorotrifluoroe... | 3.665 | 67 | 354930 | 39.32 | ug/Kg | 87 |
| 10) 1,1-Dichloroethene | 3.665 | 61 | 511494 | 41.51 | ug/Kg | 97 |
| 11) Freon 113 | 3.720 | 101 | 328969 | 39.61 | ug/Kg | 91 |
| 12) Carbon Disulfide | 3.714 | 76 | 1000993 | 39.95 | ug/Kg | 94 |
| 13) Iodomethane | 3.824 | 142 | 528559 | 43.04 | ug/Kg | 97 |
| 14) Allyl chloride | 4.146 | 41 | 452842 | 44.04 | ug/Kg | 84 |
| 15) Methylene Chloride | 4.255 | 49 | 387020 | 35.34 | ug/Kg | 100 |
| 16) Acetone | 4.310 | 43 | 325121 | 189.93 | ug/Kg | 95 |
| 17) Methyl acetate | 4.420 | 43 | 614014m | 188.66 | ug/Kg | |
| 18) trans-1,2-Dichloroethene | 4.420 | 61 | 430133 | 41.47 | ug/Kg | 96 |
| 19) Hexane | 4.481 | 56 | 234023 | 41.17 | ug/Kg | 93 |
| 20) Methyl Tert Butyl Ether | 4.511 | 73 | 782354 | 45.11 | ug/Kg | 95 |
| 21) Acetonitrile | 4.797 | 41 | 182340 | 361.15 | ug/Kg | 94 |
| 22) Di-isopropyl ether | 4.882 | 45 | 814403 | 45.94 | ug/Kg | 95 |
| 23) Chloroprene | 5.016 | 53 | 593910 | 47.18 | ug/Kg | 92 |
| 24) 1,1-Dichloroethane | 5.046 | 63 | 562483 | 42.45 | ug/Kg | 99 |
| 25) Acrylonitrile | 5.107 | 52 | 274974 | 208.74 | ug/Kg | 90 |
| 26) ETBE | 5.253 | 59 | 850059 | 46.67 | ug/Kg | 96 |
| 27) Vinyl acetate | 5.277 | 43 | 1870503 | 221.49 | ug/Kg | 96 |
| 28) cis-1,2-Dichloroethene | 5.594 | 96 | 377397 | 45.39 | ug/Kg | 98 |
| 29) 2,2-Dichloropropane | 5.709 | 77 | 411042 | 40.21 | ug/Kg | 96 |
| 30) Bromochloromethane | 5.807 | 128 | 161503 | 42.93 | ug/Kg# | 87 |
| 31) Cyclohexane | 5.813 | 84 | 498992 | 43.96 | ug/Kg | 94 |
| 32) Chloroform | 5.868 | 83 | 608485 | 41.31 | ug/Kg | 99 |
| 33) Ethyl acetate | 5.965 | 43 | 733146 | 234.55 | ug/Kg | 99 |
| 34) Tetrahydrofuran | 6.044 | 42 | 41559 | 37.20 | ug/Kg | 91 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115582.D
Acq On : 12 May 2016 1:16 pm
Operator : ericp
Sample : ICC4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 07:23:13 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:17:16 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) | Carbon Tetrachloride | 6.020 | 117 | 600911 | 47.55 | ug/Kg | 95 |
| 37) | 1,1,1-Trichloroethane | 6.093 | 97 | 571742 | 43.69 | ug/Kg | 96 |
| 38) | 2-Butanone | 6.184 | 43 | 426588 | 232.01 | ug/Kg | 95 |
| 39) | 1,1-Dichloropropene | 6.214 | 75 | 447313 | 47.30 | ug/Kg | 90 |
| 40) | Propionitrile | 6.506 | 54 | 255787 | 407.44 | ug/Kg | 84 |
| 41) | Methacrylonitrile | 6.519 | 41 | 1071886 | 454.60 | ug/Kg | 94 |
| 42) | Benzene | 6.470 | 78 | 1200712 | 45.29 | ug/Kg | 96 |
| 43) | TAME | 6.561 | 73 | 754201 | 47.87 | ug/Kg | 94 |
| 45) | 1,2-Dichloroethane | 6.683 | 62 | 413256 | 45.94 | ug/Kg | 94 |
| 46) | Trichloroethene | 7.054 | 95 | 331915 | 47.40 | ug/Kg | 94 |
| 47) | Methylcyclohexane | 7.048 | 83 | 544967 | 46.75 | ug/Kg | 97 |
| 48) | Dibromomethane | 7.498 | 93 | 195229 | 51.07 | ug/Kg | 82 |
| 49) | 1,2-Dichloropropane | 7.589 | 63 | 300743 | 52.17 | ug/Kg | 81 |
| 50) | Bromodichloromethane | 7.644 | 83 | 423244 | 49.92 | ug/Kg | 97 |
| 51) | Methyl methacrylate | 7.772 | 41 | 129620 | 38.19 | ug/Kg | 90 |
| 52) | 2-Chloroethyl vinyl ether | 8.192 | 63 | 497663 | 171.33 | ug/Kg | 96 |
| 53) | cis-1,3-Dichloropropene | 8.271 | 75 | 395640 | 57.59 | ug/Kg | 93 |
| 56) | Toluene | 8.502 | 91 | 1104743 | 50.77 | ug/Kg | 94 |
| 57) | 2-Nitropropane | 8.745 | 41 | 273054 | 274.73 | ug/Kg | 97 |
| 58) | 4-Methyl-2-pentanone | 8.867 | 43 | 985070 | 259.62 | ug/Kg | 93 |
| 59) | trans-1,3-Dichloropropene | 8.915 | 75 | 257781 | 55.20 | ug/Kg | 97 |
| 60) | Tetrachloroethene | 8.891 | 166 | 259050 | 48.22 | ug/Kg | 85 |
| 61) | Ethyl methacrylate | 9.043 | 69 | 209561 | 42.26 | ug/Kg | 92 |
| 62) | 1,1,2-Trichloroethane | 9.080 | 83 | 168238 | 48.82 | ug/Kg | 93 |
| 63) | Dibromochloromethane | 9.262 | 129 | 234906 | 56.09 | ug/Kg | 96 |
| 64) | 1,3-Dichloropropane | 9.360 | 76 | 309031 | 54.90 | ug/Kg | 97 |
| 65) | 1,2-Dibromoethane | 9.512 | 107 | 174369 | 53.50 | ug/Kg | 99 |
| 66) | 2-hexanone | 9.694 | 43 | 518749 | 187.63 | ug/Kg | 97 |
| 67) | 1-Chlorohexane | 9.974 | 91 | 343635 | 40.81 | ug/Kg | 95 |
| 68) | Ethylbenzene | 10.035 | 91 | 1166986 | 49.64 | ug/Kg | 99 |
| 69) | Chlorobenzene | 10.023 | 112 | 634519 | 49.04 | ug/Kg | 98 |
| 70) | 1,1,1,2-Tetrachloroethane | 10.084 | 131 | 296328 | 51.45 | ug/Kg | 93 |
| 71) | m,p-Xylene | 10.175 | 91 | 1786473 | 105.57 | ug/Kg | 96 |
| 72) | o-Xylene | 10.613 | 91 | 1074360 | 40.25 | ug/Kg | 97 |
| 73) | Styrene | 10.668 | 104 | 628286 | 39.61 | ug/Kg | 96 |
| 74) | Bromoform | 10.716 | 173 | 107626 | 52.38 | ug/Kg | 91 |
| 75) | Isopropylbenzene | 10.923 | 105 | 1269150 | 41.59 | ug/Kg | 99 |
| 78) | cis-1,4-Dichloro-2-butene | 11.288 | 53 | 42433 | 35.49 | ug/Kg | 85 |
| 79) | n-Propylbenzene | 11.343 | 91 | 1344065 | 54.19 | ug/Kg | 99 |
| 80) | Bromobenzene | 11.343 | 156 | 239030 | 49.72 | ug/Kg | 99 |
| 81) | 1,1,2,2-Tetrachloroethane | 11.422 | 83 | 266616 | 46.56 | ug/Kg | 99 |
| 82) | 1,3,5-Trimethylbenzene | 11.531 | 105 | 1065088 | 40.61 | ug/Kg | 99 |
| 83) | 2-Chlorotoluene | 11.519 | 91 | 995708 | 54.51 | ug/Kg | 97 |
| 84) | trans-1,4-Dichloro-2-B... | 11.604 | 53 | 43145 | 56.45 | ug/Kg | 85 |
| 85) | 1,2,3-Trichloropropane | 11.574 | 110 | 67834 | 45.98 | ug/Kg | 93 |
| 86) | Cyclohexanone | 11.629 | 55 | 39091 | 300.90 | ug/Kg | 97 |
| 87) | 4-Chlorotoluene | 11.690 | 91 | 830554 | 57.56 | ug/Kg | 96 |
| 88) | tert-Butylbenzene | 11.866 | 91 | 723763 | 39.02 | ug/Kg | 95 |
| 89) | 1,2,4-Trimethylbenzene | 11.939 | 105 | 1028565 | 40.87 | ug/Kg | 97 |
| 90) | Pentachloroethane | 11.909 | 167 | 172272 | 55.73 | ug/Kg | 87 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115582.D
Acq On : 12 May 2016 1:16 pm
Operator : ericp
Sample : ICC4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 07:23:13 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:17:16 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 91) | sec-Butylbenzene | 12.049 | 105 | 1335452 | 40.24 | ug/Kg | 98 |
| 92) | 4-Isopropyltoluene | 12.188 | 119 | 1099442 | 40.07 | ug/Kg | 99 |
| 93) | 1,3-Dichlorobenzene | 12.298 | 146 | 489036 | 50.65 | ug/Kg | 98 |
| 94) | 1,4-Dichlorobenzene | 12.389 | 146 | 456908 | 48.23 | ug/Kg | 97 |
| 95) | n-Butylbenzene | 12.626 | 92 | 615106 | 42.96 | ug/Kg | 98 |
| 96) | Benzyl Chloride | 12.645 | 126 | 93667 | 53.18 | ug/Kg# | 51 |
| 97) | 1,2-Dichlorobenzene | 12.833 | 146 | 499405 | 51.69 | ug/Kg | 96 |
| 98) | 1,2-Dibromo-3-Chloropr... | 13.642 | 75 | 60321 | 51.23 | ug/Kg | 89 |
| 99) | Hexachlorobutadiene | 14.220 | 225 | 212919 | 53.50 | ug/Kg | 80 |
| 100) | 1,2,4-Trichlorobenzene | 14.263 | 180 | 369312 | 57.03 | ug/Kg | 93 |
| 101) | Naphthalene | 14.555 | 128 | 928645 | 57.83 | ug/Kg | 99 |
| 102) | 1,2,3-Trichlorobenzene | 14.713 | 180 | 366215 | 52.77 | ug/Kg | 97 |
| 104) | Ethanol | 3.580 | 45 | 28169m | 2760.09 | ug/Kg | |
| 105) | Acrolein | 4.012 | 56 | 157272 | 274.63 | ug/Kg | 98 |
| 106) | Tert butyl alcohol | 4.596 | 59 | 240452 | 489.85 | ug/Kg | 95 |
| 107) | Isobutyl alcohol | 6.646 | 42 | 94260 | 956.93 | ug/Kg | 87 |
| 108) | Tert Amyl Alcohol | 6.756 | 59 | 189308 | 551.20 | ug/Kg | 93 |
| 109) | 1,4-Dioxane | 7.845 | 88 | 35832 | 668.94 | ug/Kg | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.4

7

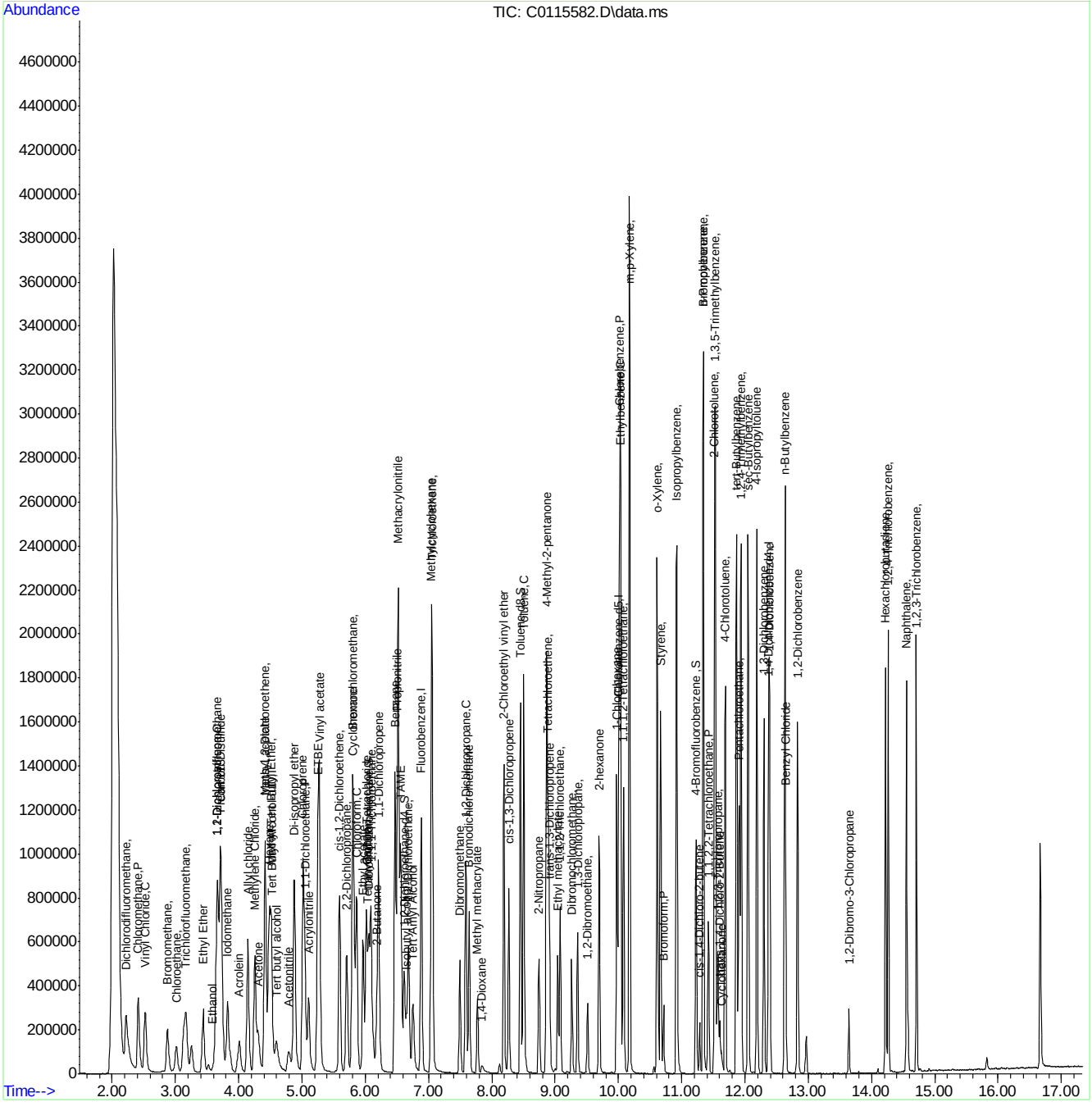


SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115582.D
Acq On : 12 May 2016 1:16 pm
Operator : ericp
Sample : ICC4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 07:23:13 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:17:16 2016
Response via : Initial Calibration




051216APP9-C-Soil.m Fri May 13 07:51:15 2016 Page: 4





SGS ACCUTEST FA33878

# Manual Integration Approval Summary



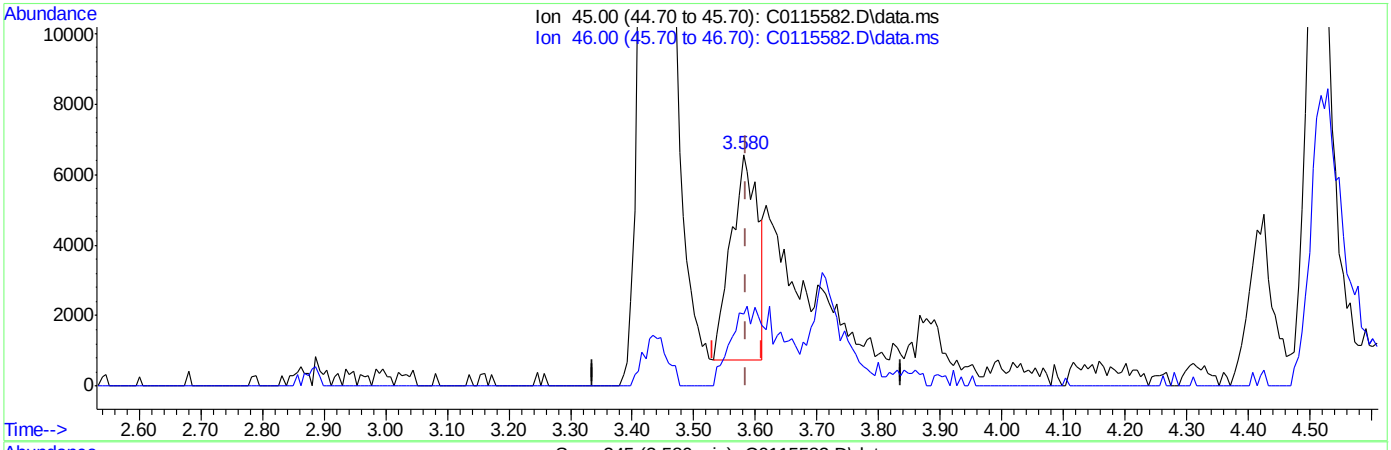
| | | | |
|---|---|---|---|
| **Sample Number:** | VC4595-ICC4595 | **Method:** | SW846 8260B |
| **Lab FileID:** | C0115582.D | **Analyst approved:** | 05/13/16 08:01 Eric Parrish |
| **Injection Time:** | 05/12/16 13:16 | **Supervisor approved:** | 05/13/16 11:58 Melissa Mangual |

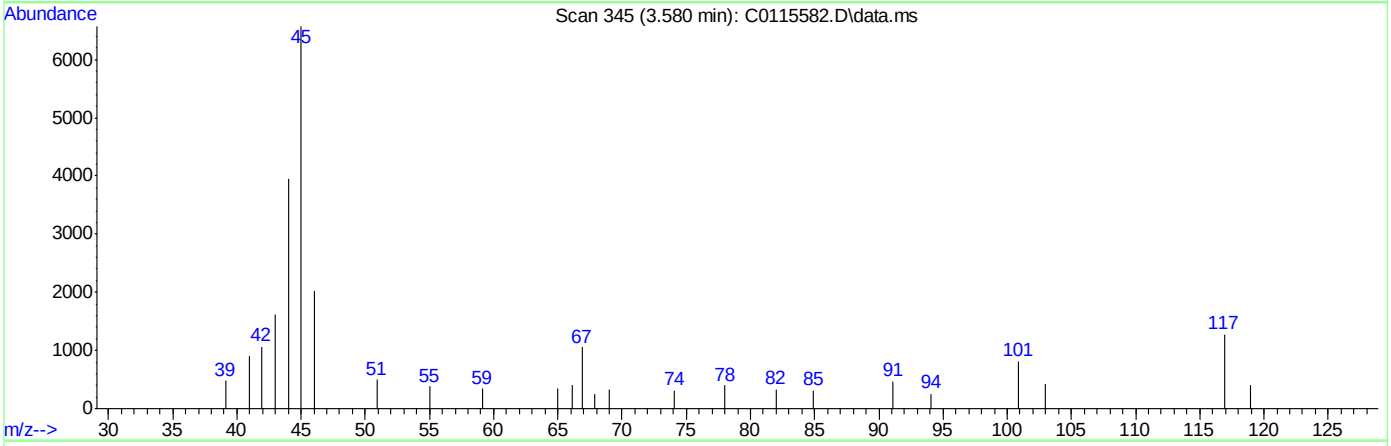
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Ethyl Alcohol | 64-17-5 | | 3.58 | Split peak |
| Methyl Acetate | 79-20-9 | | 4.42 | Overlapping peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115582.D
Acq On : 12 May 2016 1:16 pm
Operator : ericp
Sample : ICC4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 12 13:34:29 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:17:16 2016
Response via : Initial Calibration




TIC: C0115582.D\data.ms

(104) Ethanol

3.580min (-0.006) 1713.14ug/Kg

response 17484

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 34.92 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

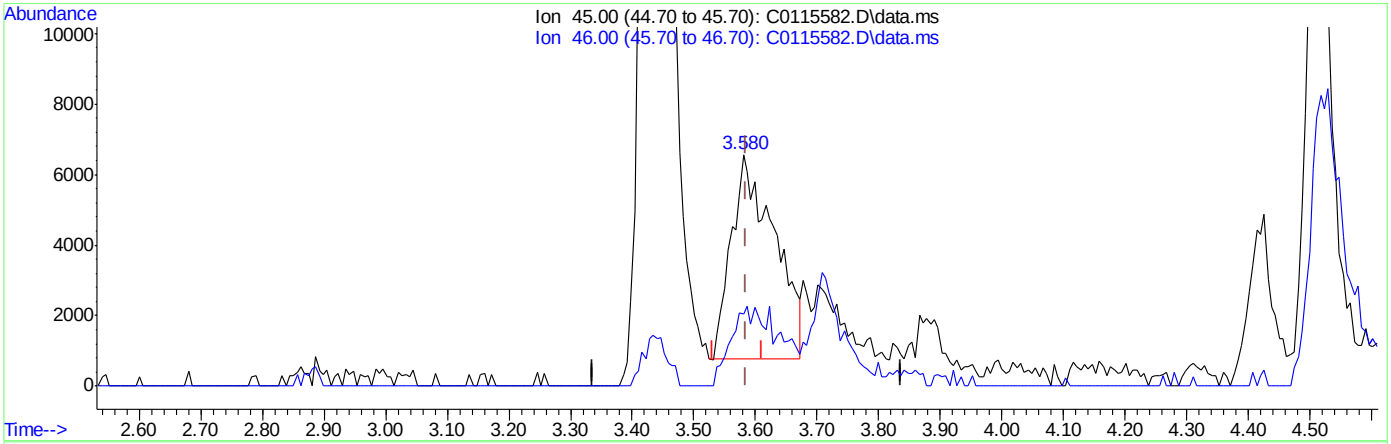


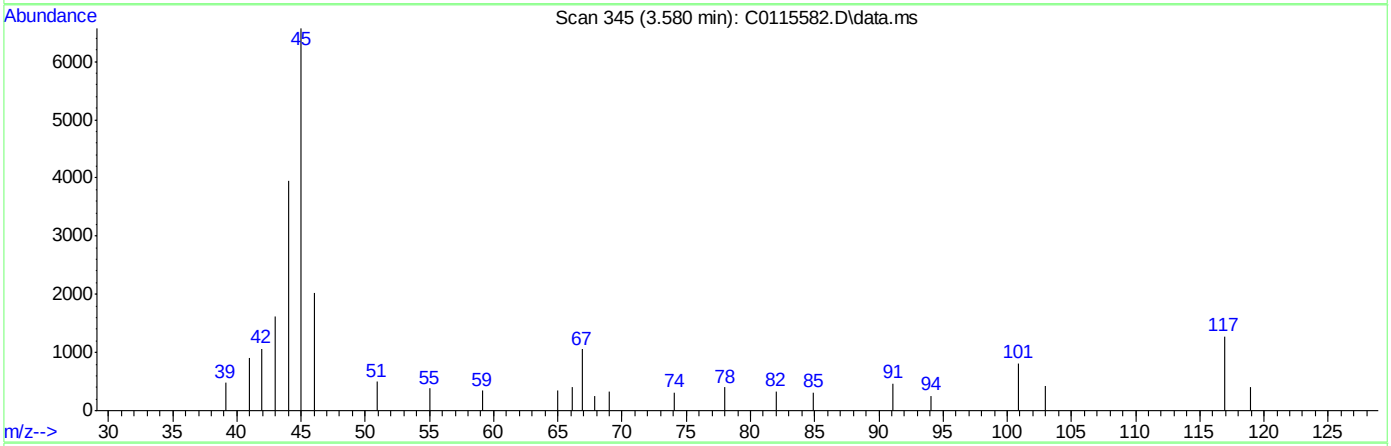
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115582.D
Acq On : 12 May 2016 1:16 pm
Operator : ericp
Sample : ICC4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 12 13:34:29 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:17:16 2016
Response via : Initial Calibration




TIC: C0115582.D\data.ms

(104) Ethanol

3.580min (-0.006) 2760.09ug/Kg m

response 28169

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 30.92 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

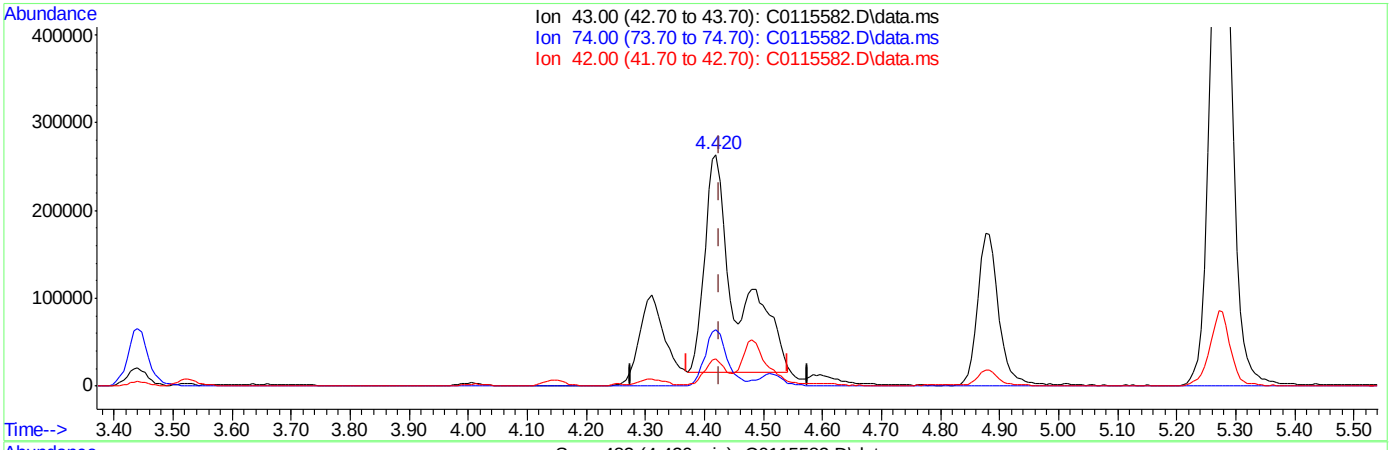


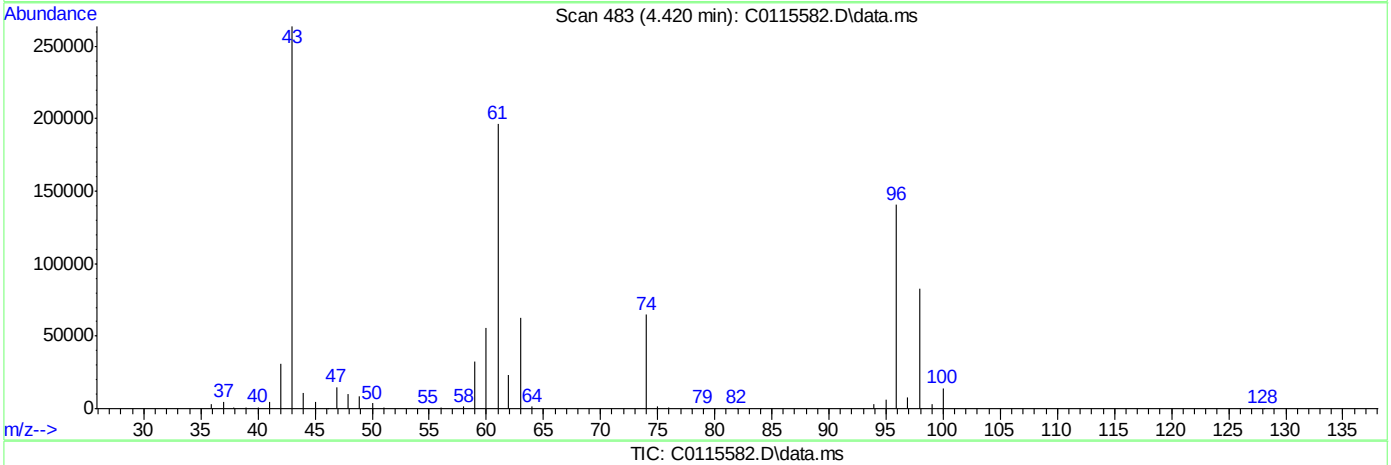
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115582.D
Acq On : 12 May 2016 1:16 pm
Operator : ericp
Sample : ICC4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 12 13:37:43 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:17:16 2016
Response via : Initial Calibration




TIC: C0115582.D\data.ms

(17) Methyl acetate

4.420min (-0.006) 287.15ug/Kg

response 934542

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 74.00 | 28.40 | 25.92 |
| 42.00 | 15.10 | 11.83 |
| 0.00 | 0.00 | 0.00 |

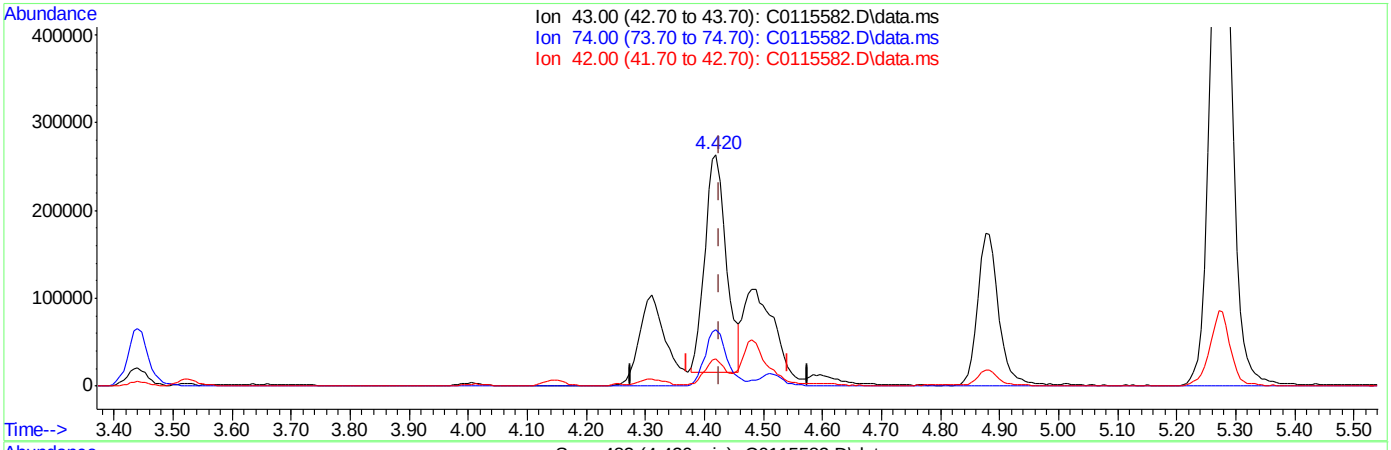


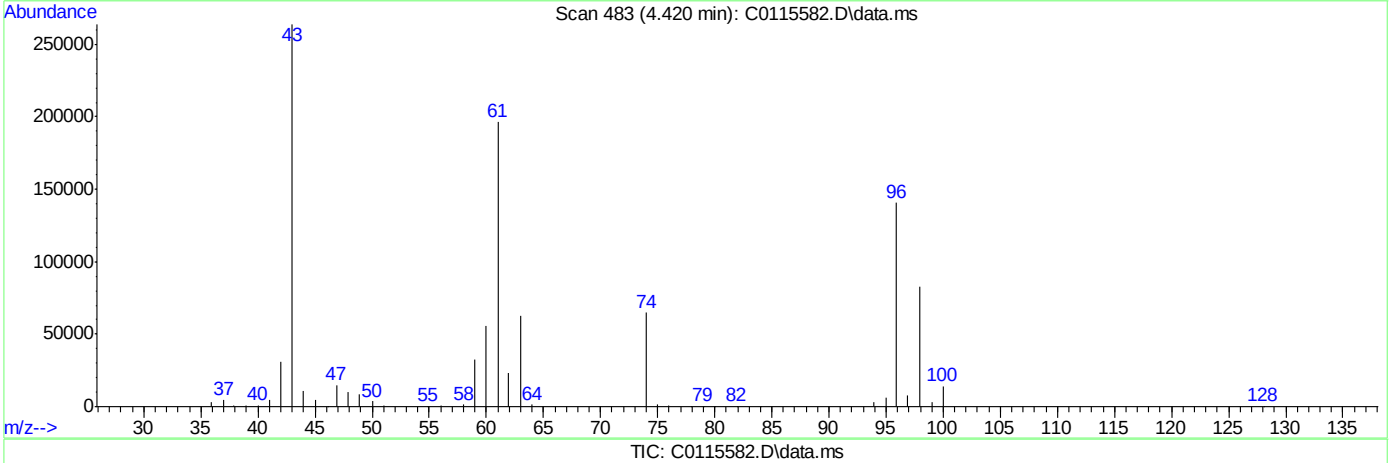
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115582.D
Acq On : 12 May 2016 1:16 pm
Operator : ericp
Sample : ICC4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 12 13:37:43 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:17:16 2016
Response via : Initial Calibration




TIC: C0115582.D\data.ms

(17) Methyl acetate

4.420min (-0.006) 188.66ug/Kg m

response 614014

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 74.00 | 28.40 | 24.55 |
| 42.00 | 15.10 | 11.69 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115583.D
Acq On : 12 May 2016 1:42 pm
Operator : ericp
Sample : IC4595-5 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 07:22:35 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:03:15 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 6.890 | 96 | 999534 | 50.00 | ug/Kg | 0.00 |
| 54) Chlorobenzene-d5 | 10.004 | 117 | 646176 | 50.00 | ug/Kg | 0.00 |
| 76) 1,4-Dichlorobenzene-d4 | 12.377 | 152 | 319029 | 50.00 | ug/Kg | 0.00 |
| 103) Tert Butyl Alcohol-d10 | 4.529 | 65 | 103048 | 250.00 | ug/Kg | 0.00 |
| System Monitoring Compounds | | | | | | |
| 35) Dibromofluoromethane | 6.056 | 113 | 276339 | 46.16 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 92.32% | | | |
| 44) 1,2-Dichloroethane-d4 | 6.616 | 65 | 324567 | 48.02 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 72 - 135 | | Recovery = 96.04% | | | |
| 55) Toluene-d8 | 8.453 | 98 | 960616 | 51.79 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 126 | | Recovery = 103.58% | | | |
| 77) 4-Bromofluorobenzene | 11.227 | 174 | 217466 | 54.16 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 71 - 133 | | Recovery = 108.32% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.224 | 85 | 1026921 | 87.93 | ug/Kg | 98 |
| 3) Chloromethane | 2.418 | 50 | 903850 | 80.42 | ug/Kg | 99 |
| 4) Vinyl Chloride | 2.528 | 62 | 783010 | 84.96 | ug/Kg | 99 |
| 5) Bromomethane | 2.875 | 94 | 346315 | 101.24 | ug/Kg | 94 |
| 6) Chloroethane | 3.014 | 64 | 263283 | 102.21 | ug/Kg | 94 |
| 7) Trichlorofluoromethane | 3.167 | 101 | 1030177 | 85.55 | ug/Kg | 95 |
| 8) Ethyl Ether | 3.440 | 59 | 406250 | 85.01 | ug/Kg | 96 |
| 9) 1,2-Dichlorotrifluoroe... | 3.671 | 67 | 635176 | 100.66 | ug/Kg | 89 |
| 10) 1,1-Dichloroethene | 3.665 | 61 | 943517 | 80.32 | ug/Kg | 95 |
| 11) Freon 113 | 3.726 | 101 | 605588 | 100.43 | ug/Kg | 94 |
| 12) Carbon Disulfide | 3.708 | 76 | 1773832 | 100.53 | ug/Kg | 94 |
| 13) Iodomethane | 3.824 | 142 | 994523 | 83.62 | ug/Kg | 97 |
| 14) Allyl chloride | 4.146 | 41 | 816821 | 81.93 | ug/Kg | 86 |
| 15) Methylene Chloride | 4.255 | 49 | 678718 | 101.03 | ug/Kg | 99 |
| 16) Acetone | 4.310 | 43 | 618021 | 503.17 | ug/Kg | 92 |
| 17) Methyl acetate | 4.420 | 43 | 1109179m | 315.03 | ug/Kg | |
| 18) trans-1,2-Dichloroethene | 4.420 | 61 | 778425 | 78.99 | ug/Kg | 97 |
| 19) Hexane | 4.481 | 56 | 437429 | 80.77 | ug/Kg | 90 |
| 20) Methyl Tert Butyl Ether | 4.511 | 73 | 1489998 | 87.04 | ug/Kg | 96 |
| 21) Acetonitrile | 4.791 | 41 | 342923 | 1007.11 | ug/Kg | 94 |
| 22) Di-isopropyl ether | 4.882 | 45 | 1527857 | 86.96 | ug/Kg | 97 |
| 23) Chloroprene | 5.016 | 53 | 1096665 | 87.29 | ug/Kg | 93 |
| 24) 1,1-Dichloroethane | 5.046 | 63 | 1009912 | 79.68 | ug/Kg | 95 |
| 25) Acrylonitrile | 5.107 | 52 | 535517 | 421.81 | ug/Kg | 92 |
| 26) ETBE | 5.253 | 59 | 1605150 | 88.30 | ug/Kg | 97 |
| 27) Vinyl acetate | 5.278 | 43 | 3517550 | 425.71 | ug/Kg | 96 |
| 28) cis-1,2-Dichloroethene | 5.594 | 96 | 702878 | 85.79 | ug/Kg | 94 |
| 29) 2,2-Dichloropropane | 5.703 | 77 | 685219 | 100.43 | ug/Kg | 96 |
| 30) Bromochloromethane | 5.807 | 128 | 303487 | 83.39 | ug/Kg | 89 |
| 31) Cyclohexane | 5.807 | 84 | 948431 | 85.48 | ug/Kg | 97 |
| 32) Chloroform | 5.868 | 83 | 1149158 | 81.67 | ug/Kg | 97 |
| 33) Ethyl acetate | 5.965 | 43 | 1510417 | 475.61 | ug/Kg | 99 |
| 34) Tetrahydrofuran | 6.044 | 42 | 86287 | 100.50 | ug/Kg | 95 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115583.D
Acq On : 12 May 2016 1:42 pm
Operator : ericp
Sample : IC4595-5 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 07:22:35 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:03:15 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) | Carbon Tetrachloride | 6.020 | 117 | 1141836 | 89.80 | ug/Kg | 95 |
| 37) | 1,1,1-Trichloroethane | 6.093 | 97 | 1057221 | 83.22 | ug/Kg | 94 |
| 38) | 2-Butanone | 6.184 | 43 | 865005 | 466.36 | ug/Kg | 94 |
| 39) | 1,1-Dichloropropene | 6.214 | 75 | 856113 | 90.04 | ug/Kg | 93 |
| 40) | Propionitrile | 6.506 | 54 | 492335 | 822.21 | ug/Kg | 89 |
| 41) | Methacrylonitrile | 6.519 | 41 | 2055729 | 879.74 | ug/Kg | 96 |
| 42) | Benzene | 6.470 | 78 | 2247682 | 86.02 | ug/Kg | 99 |
| 43) | TAME | 6.561 | 73 | 1461854 | 91.66 | ug/Kg | 95 |
| 45) | 1,2-Dichloroethane | 6.683 | 62 | 798558 | 89.11 | ug/Kg | 95 |
| 46) | Trichloroethene | 7.060 | 95 | 622114 | 88.63 | ug/Kg | 99 |
| 47) | Methylcyclohexane | 7.048 | 83 | 1045152 | 89.54 | ug/Kg | 98 |
| 48) | Dibromomethane | 7.492 | 93 | 364465 | 92.49 | ug/Kg# | 82 |
| 49) | 1,2-Dichloropropane | 7.589 | 63 | 515308 | 87.34 | ug/Kg | 81 |
| 50) | Bromodichloromethane | 7.644 | 83 | 783027 | 90.55 | ug/Kg | 98 |
| 51) | Methyl methacrylate | 7.772 | 41 | 308181 | 100.09 | ug/Kg | 92 |
| 52) | 2-Chloroethyl vinyl ether | 8.192 | 63 | 1113438 | 499.45 | ug/Kg | 95 |
| 53) | cis-1,3-Dichloropropene | 8.271 | 75 | 857069 | 111.70 | ug/Kg | 93 |
| 56) | Toluene | 8.508 | 91 | 2168194 | 94.43 | ug/Kg | 93 |
| 57) | 2-Nitropropane | 8.745 | 41 | 586655 | 531.86 | ug/Kg | 91 |
| 58) | 4-Methyl-2-pentanone | 8.867 | 43 | 1824392 | 456.57 | ug/Kg | 95 |
| 59) | trans-1,3-Dichloropropene | 8.916 | 75 | 596590 | 113.03 | ug/Kg | 95 |
| 60) | Tetrachloroethene | 8.897 | 166 | 528625 | 94.45 | ug/Kg | 94 |
| 61) | Ethyl methacrylate | 9.043 | 69 | 476149 | 99.68 | ug/Kg | 94 |
| 62) | 1,1,2-Trichloroethane | 9.080 | 83 | 338242 | 94.02 | ug/Kg | 95 |
| 63) | Dibromochloromethane | 9.262 | 129 | 506602 | 107.95 | ug/Kg | 92 |
| 64) | 1,3-Dichloropropane | 9.360 | 76 | 671918 | 107.32 | ug/Kg | 96 |
| 65) | 1,2-Dibromoethane | 9.512 | 107 | 391150 | 108.36 | ug/Kg | 96 |
| 66) | 2-hexanone | 9.694 | 43 | 1072253 | 498.48 | ug/Kg | 94 |
| 67) | 1-Chlorohexane | 9.974 | 91 | 697077 | 99.55 | ug/Kg | 95 |
| 68) | Ethylbenzene | 10.035 | 91 | 2172352 | 89.21 | ug/Kg | 95 |
| 69) | Chlorobenzene | 10.023 | 112 | 1246212 | 92.51 | ug/Kg | 97 |
| 70) | 1,1,1,2-Tetrachloroethane | 10.084 | 131 | 568424 | 93.44 | ug/Kg | 88 |
| 71) | m,p-Xylene | 10.175 | 91 | 3265769 | 182.50 | ug/Kg | 93 |
| 72) | o-Xylene | 10.613 | 91 | 2055882 | 99.44 | ug/Kg | 93 |
| 73) | Styrene | 10.668 | 104 | 1272352 | 98.58 | ug/Kg | 96 |
| 74) | Bromoform | 10.716 | 173 | 245783 | 108.54 | ug/Kg | 97 |
| 75) | Isopropylbenzene | 10.923 | 105 | 2405375 | 99.43 | ug/Kg | 95 |
| 78) | cis-1,4-Dichloro-2-butene | 11.288 | 53 | 107013 | 100.04 | ug/Kg | 84 |
| 79) | n-Propylbenzene | 11.343 | 91 | 2462057 | 90.73 | ug/Kg | 95 |
| 80) | Bromobenzene | 11.343 | 156 | 492682 | 94.80 | ug/Kg | 100 |
| 81) | 1,1,2,2-Tetrachloroethane | 11.422 | 83 | 530963 | 88.51 | ug/Kg | 98 |
| 82) | 1,3,5-Trimethylbenzene | 11.538 | 105 | 2011278 | 99.50 | ug/Kg | 95 |
| 83) | 2-Chlorotoluene | 11.519 | 91 | 1891525 | 93.79 | ug/Kg | 99 |
| 84) | trans-1,4-Dichloro-2-B... | 11.604 | 53 | 104620 | 116.08 | ug/Kg# | 75 |
| 85) | 1,2,3-Trichloropropane | 11.574 | 110 | 142742 | 91.87 | ug/Kg | 92 |
| 86) | Cyclohexanone | 11.629 | 55 | 88634 | 571.02 | ug/Kg | 96 |
| 87) | 4-Chlorotoluene | 11.690 | 91 | 1592971 | 97.59 | ug/Kg | 98 |
| 88) | tert-Butylbenzene | 11.866 | 91 | 1423981 | 99.31 | ug/Kg | 92 |
| 89) | 1,2,4-Trimethylbenzene | 11.939 | 105 | 1979368 | 99.55 | ug/Kg | 94 |
| 90) | Pentachloroethane | 11.909 | 167 | 338334 | 97.61 | ug/Kg | 91 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115583.D
Acq On : 12 May 2016 1:42 pm
Operator : ericp
Sample : IC4595-5 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 07:22:35 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:03:15 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 91) | sec-Butylbenzene | 12.049 | 105 | 2619382 | 98.00 | ug/Kg | 100 |
| 92) | 4-Isopropyltoluene | 12.188 | 119 | 2182630 | 99.47 | ug/Kg | 97 |
| 93) | 1,3-Dichlorobenzene | 12.298 | 146 | 962503 | 92.34 | ug/Kg | 97 |
| 94) | 1,4-Dichlorobenzene | 12.389 | 146 | 913292 | 90.76 | ug/Kg | 98 |
| 95) | n-Butylbenzene | 12.633 | 92 | 1199609 | 99.46 | ug/Kg | 94 |
| 96) | Benzyl Chloride | 12.645 | 126 | 196056 | 99.94 | ug/Kg# | 53 |
| 97) | 1,2-Dichlorobenzene | 12.833 | 146 | 979322 | 93.22 | ug/Kg | 93 |
| 98) | 1,2-Dibromo-3-Chloropr... | 13.642 | 75 | 138210 | 105.04 | ug/Kg | 87 |
| 99) | Hexachlorobutadiene | 14.220 | 225 | 435594 | 98.47 | ug/Kg | 87 |
| 100) | 1,2,4-Trichlorobenzene | 14.263 | 180 | 698433 | 95.97 | ug/Kg | 93 |
| 101) | Naphthalene | 14.555 | 128 | 1782857 | 97.93 | ug/Kg | 97 |
| 102) | 1,2,3-Trichlorobenzene | 14.713 | 180 | 687480 | 91.09 | ug/Kg | 99 |
| 104) | Ethanol | 3.598 | 45 | 65813m | 2059.30 | ug/Kg | |
| 105) | Acrolein | 4.018 | 56 | 326211 | 514.95 | ug/Kg | 99 |
| 106) | Tert butyl alcohol | 4.602 | 59 | 504970 | 971.76 | ug/Kg | 94 |
| 107) | Isobutyl alcohol | 6.652 | 42 | 198339 | 1918.83 | ug/Kg | 89 |
| 108) | Tert Amyl Alcohol | 6.756 | 59 | 406976 | 1061.64 | ug/Kg | 99 |
| 109) | 1,4-Dioxane | 7.851 | 88 | 93622 | 2005.17 | ug/Kg | 93 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

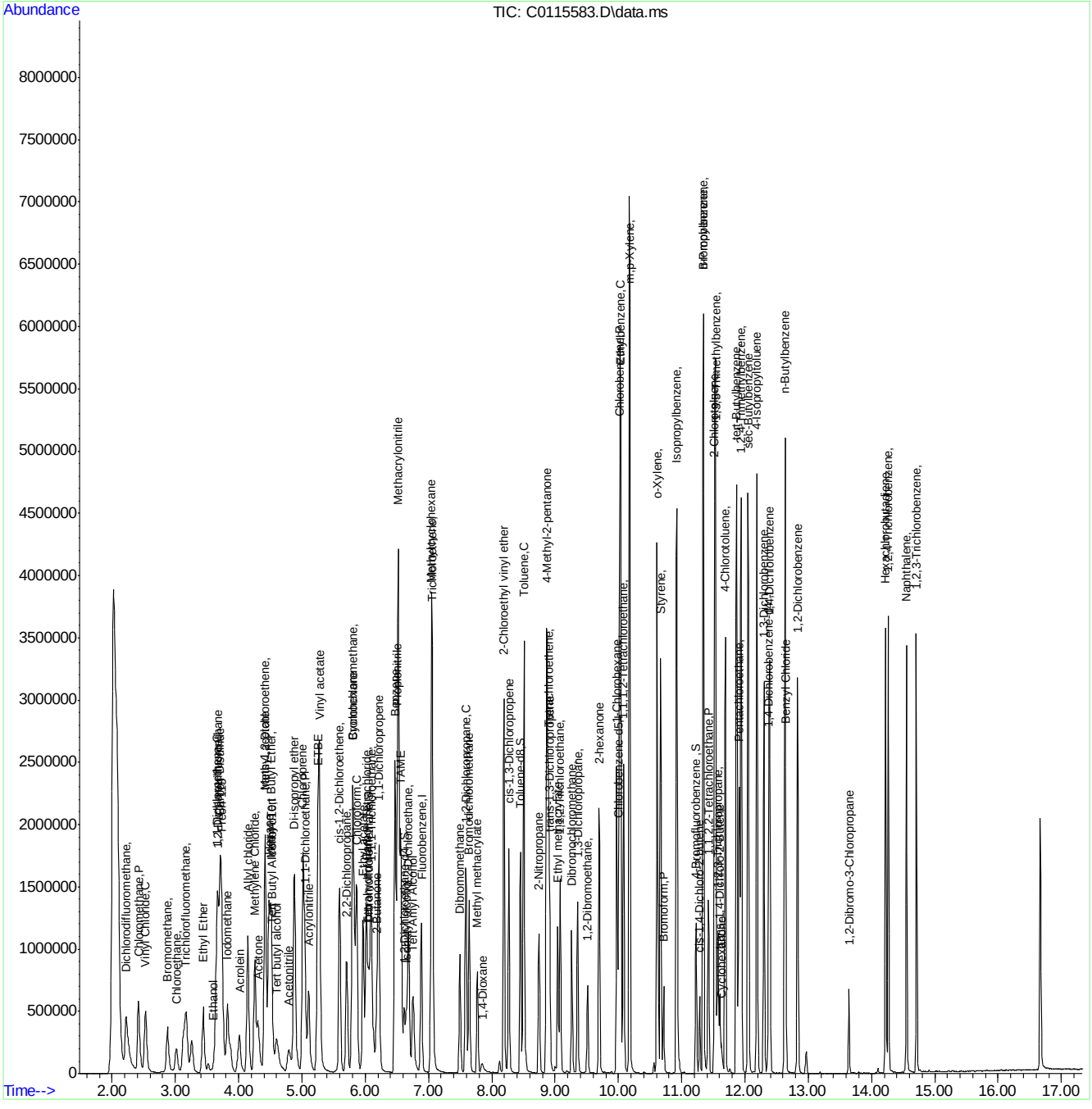



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115583.D
Acq On : 12 May 2016 1:42 pm
Operator : ericp
Sample : IC4595-5 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 07:22:35 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:03:15 2016
Response via : Initial Calibration



# Manual Integration Approval Summary



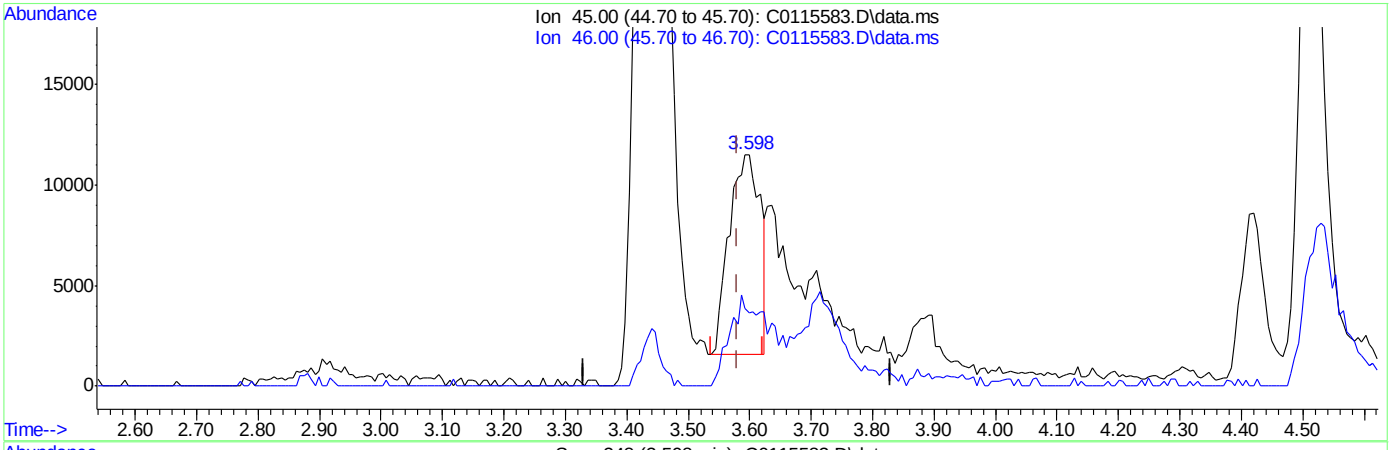
| | | | |
|---|---|---|---|
| **Sample Number:** | VC4595-IC4595 | **Method:** | SW846 8260B |
| **Lab FileID:** | C0115583.D | **Analyst approved:** | 05/13/16 08:01 Eric Parrish |
| **Injection Time:** | 05/12/16 13:42 | **Supervisor approved:** | 05/13/16 11:58 Melissa Mangual |

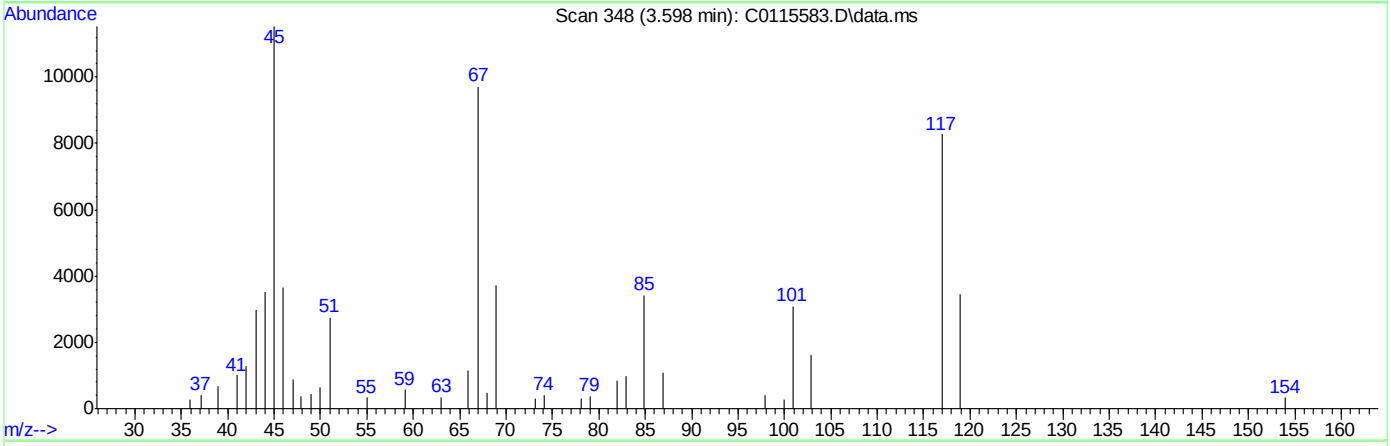
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Ethyl Alcohol | 64-17-5 | | 3.60 | Split peak |
| Methyl Acetate | 79-20-9 | | 4.42 | Overlapping peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115583.D
Acq On : 12 May 2016 1:42 pm
Operator : ericp
Sample : IC4595-5 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 12 14:03:50 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:03:15 2016
Response via : Initial Calibration




TIC: C0115583.D\data.ms

(104) Ethanol

3.598min (+0.018) 1086.11ug/Kg

response 34711

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 36.62 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

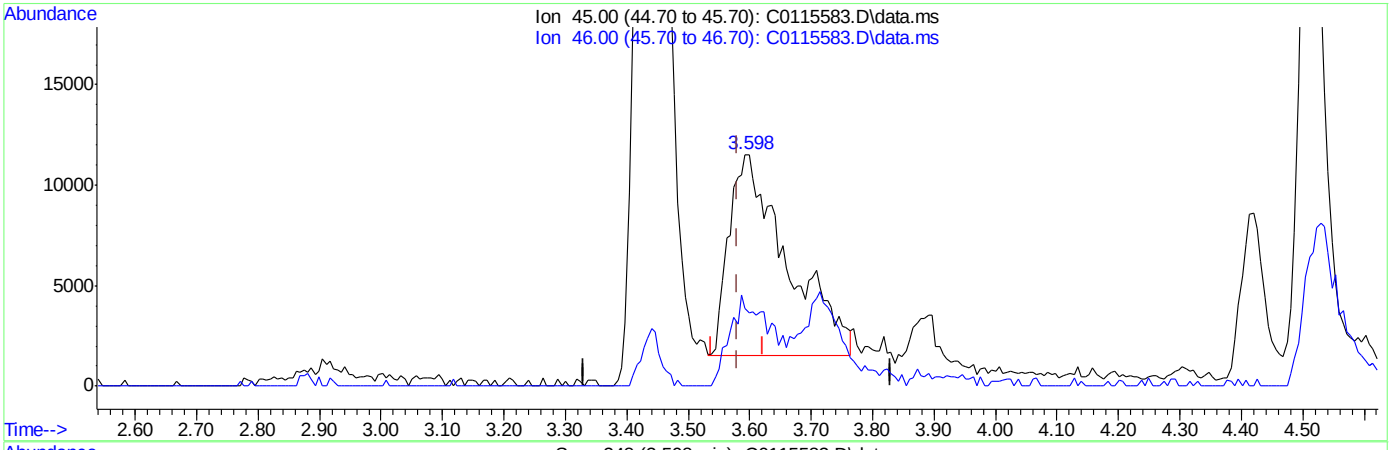


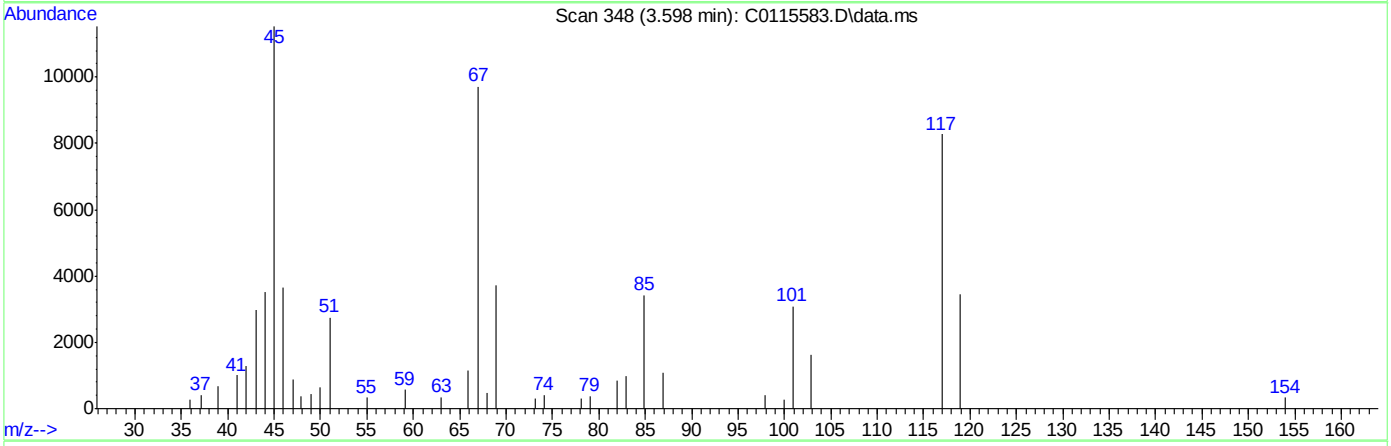
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115583.D
Acq On : 12 May 2016 1:42 pm
Operator : ericp
Sample : IC4595-5 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 12 14:03:50 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:03:15 2016
Response via : Initial Calibration




TIC: C0115583.D\data.ms

(104) Ethanol

3.598min (+0.018) 2059.30ug/Kg m

response 65813

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 31.62 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



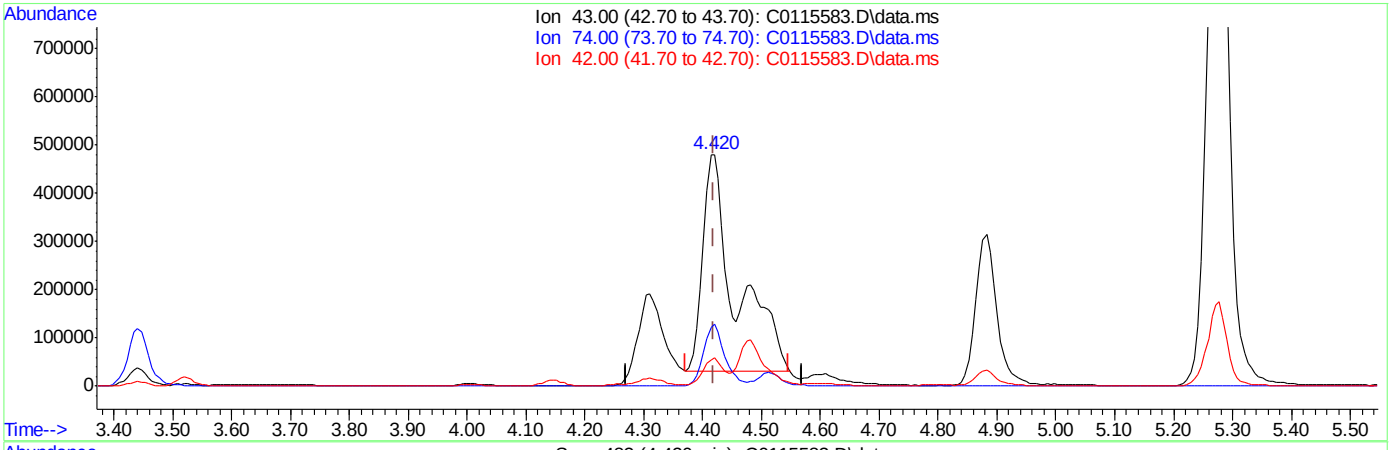
SGS ACCUTEST FA33878

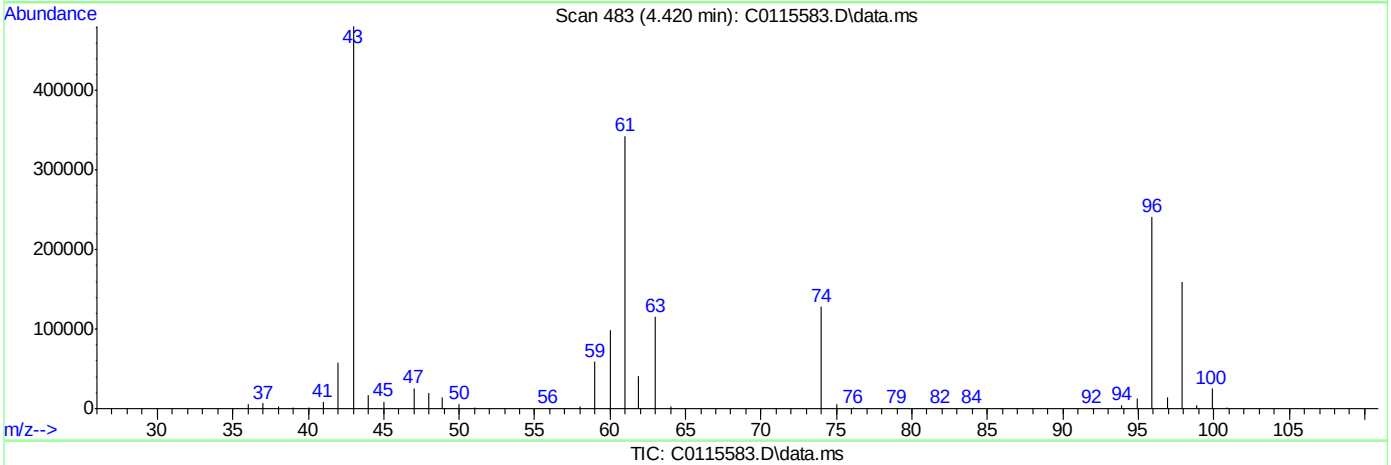
# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115583.D
Acq On : 12 May 2016 1:42 pm
Operator : ericp
Sample : IC4595-5 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 12 14:04:43 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:03:15 2016
Response via : Initial Calibration






TIC: C0115583.D\data.ms

(17) Methyl acetate

4.420min (-0.000) 497.21ug/Kg

response 1750644

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 74.00 | 28.40 | 28.20 |
| 42.00 | 15.10 | 12.19 |
| 0.00 | 0.00 | 0.00 |

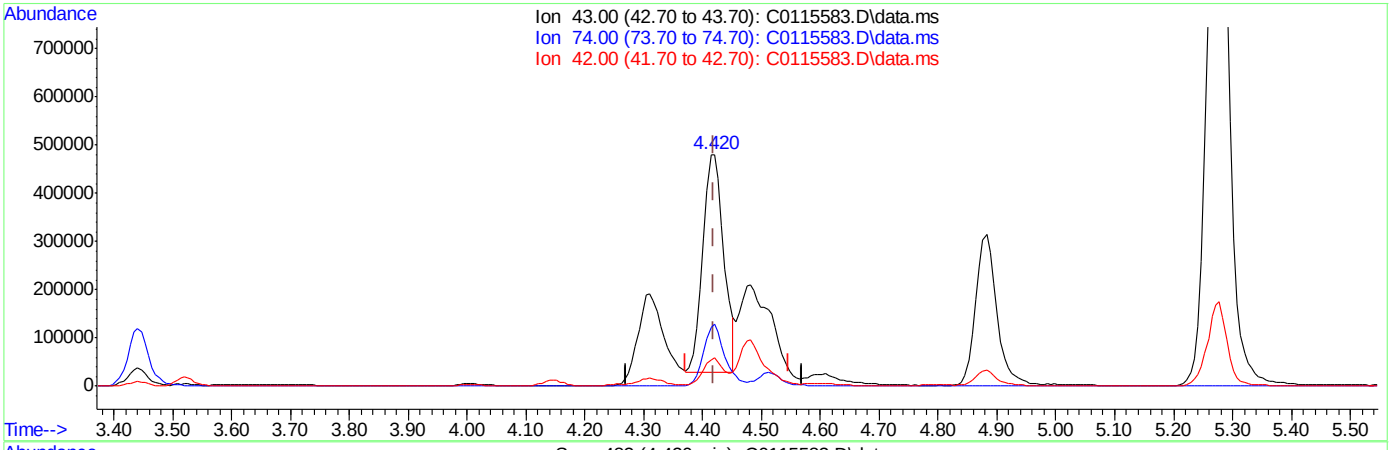


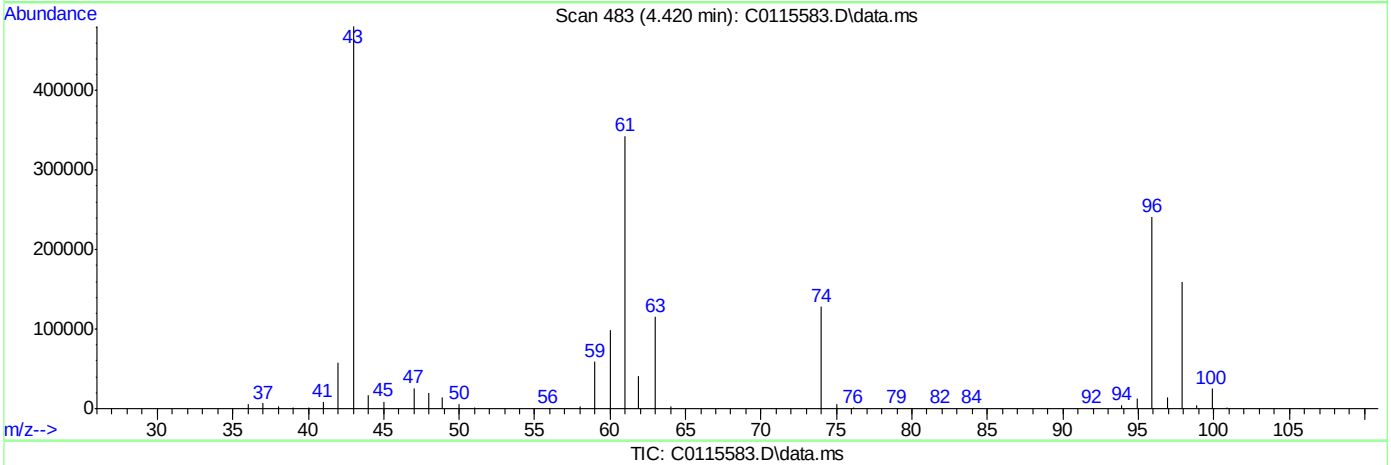
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115583.D
Acq On : 12 May 2016 1:42 pm
Operator : ericp
Sample : IC4595-5 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 12 14:04:43 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:03:15 2016
Response via : Initial Calibration




TIC: C0115583.D\data.ms

(17) Methyl acetate

4.420min (-0.000) 315.03ug/Kg m

response 1109179

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 74.00 | 28.40 | 26.63 |
| 42.00 | 15.10 | 12.08 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115584.D
Acq On : 12 May 2016 2:07 pm
Operator : ericp
Sample : IC4595-6 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 07:22:06 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:28:21 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 6.890 | 96 | 968308 | 50.00 | ug/Kg | 0.00 |
| 54) Chlorobenzene-d5 | 10.010 | 117 | 636285 | 50.00 | ug/Kg | 0.00 |
| 76) 1,4-Dichlorobenzene-d4 | 12.377 | 152 | 306173 | 50.00 | ug/Kg | 0.00 |
| 103) Tert Butyl Alcohol-d10 | 4.535 | 65 | 103218 | 250.00 | ug/Kg | 0.01 |
| System Monitoring Compounds | | | | | | |
| 35) Dibromofluoromethane | 6.056 | 113 | 267731 | 46.76 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 93.52% | | | |
| 44) 1,2-Dichloroethane-d4 | 6.616 | 65 | 310165 | 47.79 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 72 - 135 | | Recovery = 95.58% | | | |
| 55) Toluene-d8 | 8.453 | 98 | 948239 | 51.59 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 126 | | Recovery = 103.18% | | | |
| 77) 4-Bromofluorobenzene | 11.227 | 174 | 218292 | 55.42 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 71 - 133 | | Recovery = 110.84% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.223 | 85 | 1434783 | 130.17 | ug/Kg | 97 |
| 3) Chloromethane | 2.418 | 50 | 1294274 | 123.13 | ug/Kg | 99 |
| 4) Vinyl Chloride | 2.534 | 62 | 1124281 | 129.38 | ug/Kg | 98 |
| 5) Bromomethane | 2.868 | 94 | 498561 | 152.70 | ug/Kg | 96 |
| 6) Chloroethane | 3.008 | 64 | 373469 | 156.08 | ug/Kg | 92 |
| 7) Trichlorofluoromethane | 3.166 | 101 | 1448337 | 127.83 | ug/Kg | 96 |
| 8) Ethyl Ether | 3.440 | 59 | 573774 | 127.64 | ug/Kg | 95 |
| 9) 1,2-Dichlorotrifluoroe... | 3.665 | 67 | 861552 | 152.68 | ug/Kg | 90 |
| 10) 1,1-Dichloroethene | 3.659 | 61 | 1273791 | 151.60 | ug/Kg | 96 |
| 11) Freon 113 | 3.720 | 101 | 827379 | 151.75 | ug/Kg | 96 |
| 12) Carbon Disulfide | 3.708 | 76 | 2416549 | 152.76 | ug/Kg | 96 |
| 13) Iodomethane | 3.823 | 142 | 1483177 | 131.84 | ug/Kg | 92 |
| 14) Allyl chloride | 4.146 | 41 | 1137813 | 122.18 | ug/Kg | 86 |
| 15) Methylene Chloride | 4.255 | 49 | 939127 | 153.65 | ug/Kg | 99 |
| 16) Acetone | 4.316 | 43 | 869305 | 758.42 | ug/Kg | 92 |
| 17) Methyl acetate | 4.420 | 43 | 1532069m | 455.85 | ug/Kg | |
| 18) trans-1,2-Dichloroethene | 4.420 | 61 | 1083713 | 152.17 | ug/Kg | 99 |
| 19) Hexane | 4.480 | 56 | 577909 | 150.91 | ug/Kg | 91 |
| 20) Methyl Tert Butyl Ether | 4.517 | 73 | 2180526 | 134.25 | ug/Kg | 95 |
| 21) Acetonitrile | 4.797 | 41 | 479436 | 1518.97 | ug/Kg | 95 |
| 22) Di-isopropyl ether | 4.882 | 45 | 2116569 | 128.00 | ug/Kg | 98 |
| 23) Chloroprene | 5.016 | 53 | 1514962 | 128.11 | ug/Kg | 92 |
| 24) 1,1-Dichloroethane | 5.046 | 63 | 1403113 | 152.22 | ug/Kg | 98 |
| 25) Acrylonitrile | 5.107 | 52 | 744707 | 625.59 | ug/Kg | 91 |
| 26) ETBE | 5.253 | 59 | 2274577 | 132.22 | ug/Kg | 96 |
| 27) Vinyl acetate | 5.277 | 43 | 4681389 | 607.12 | ug/Kg | 97 |
| 28) cis-1,2-Dichloroethene | 5.594 | 96 | 976524 | 126.83 | ug/Kg | 96 |
| 29) 2,2-Dichloropropane | 5.709 | 77 | 939717 | 154.44 | ug/Kg | 93 |
| 30) Bromochloromethane | 5.807 | 128 | 436224 | 127.45 | ug/Kg | 90 |
| 31) Cyclohexane | 5.813 | 84 | 1272461 | 122.70 | ug/Kg | 96 |
| 32) Chloroform | 5.867 | 83 | 1645598 | 124.78 | ug/Kg | 99 |
| 33) Ethyl acetate | 5.965 | 43 | 2032200 | 673.94 | ug/Kg | 96 |
| 34) Tetrahydrofuran | 6.050 | 42 | 119786 | 150.18 | ug/Kg | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115584.D
Acq On : 12 May 2016 2:07 pm
Operator : ericp
Sample : IC4595-6 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 07:22:06 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:28:21 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) | Carbon Tetrachloride | 6.020 | 117 | 1576753 | 131.21 | ug/Kg | 97 |
| 37) | 1,1,1-Trichloroethane | 6.093 | 97 | 1465076 | 123.28 | ug/Kg | 94 |
| 38) | 2-Butanone | 6.184 | 43 | 1168461 | 665.01 | ug/Kg | 95 |
| 39) | 1,1-Dichloropropene | 6.214 | 75 | 1153996 | 128.82 | ug/Kg | 95 |
| 40) | Propionitrile | 6.506 | 54 | 656981 | 1507.14 | ug/Kg | 96 |
| 41) | Methacrylonitrile | 6.524 | 41 | 2694897 | 1232.87 | ug/Kg | 97 |
| 42) | Benzene | 6.476 | 78 | 2992180 | 122.54 | ug/Kg | 100 |
| 43) | TAME | 6.561 | 73 | 2106997 | 138.47 | ug/Kg | 95 |
| 45) | 1,2-Dichloroethane | 6.683 | 62 | 1117001 | 131.78 | ug/Kg | 95 |
| 46) | Trichloroethene | 7.060 | 95 | 854578 | 129.17 | ug/Kg | 98 |
| 47) | Methylcyclohexane | 7.048 | 83 | 1371441 | 125.28 | ug/Kg | 97 |
| 48) | Dibromomethane | 7.498 | 93 | 506001 | 135.17 | ug/Kg | 89 |
| 49) | 1,2-Dichloropropane | 7.589 | 63 | 700736 | 126.45 | ug/Kg | 85 |
| 50) | Bromodichloromethane | 7.644 | 83 | 1110302 | 135.15 | ug/Kg | 98 |
| 51) | Methyl methacrylate | 7.772 | 41 | 414058 | 147.92 | ug/Kg | 92 |
| 52) | 2-Chloroethyl vinyl ether | 8.191 | 63 | 1530195 | 742.59 | ug/Kg | 95 |
| 53) | cis-1,3-Dichloropropene | 8.270 | 75 | 1208462 | 160.34 | ug/Kg | 94 |
| 56) | Toluene | 8.508 | 91 | 2915384 | 132.03 | ug/Kg | 89 |
| 57) | 2-Nitropropane | 8.745 | 41 | 839236 | 768.80 | ug/Kg | 93 |
| 58) | 4-Methyl-2-pentanone | 8.867 | 43 | 2410165 | 631.84 | ug/Kg | 96 |
| 59) | trans-1,3-Dichloropropene | 8.915 | 75 | 847828 | 160.78 | ug/Kg | 91 |
| 60) | Tetrachloroethene | 8.897 | 166 | 759924 | 139.77 | ug/Kg | 96 |
| 61) | Ethyl methacrylate | 9.043 | 69 | 691775 | 148.79 | ug/Kg | 93 |
| 62) | 1,1,2-Trichloroethane | 9.080 | 83 | 469844 | 135.25 | ug/Kg | 95 |
| 63) | Dibromochloromethane | 9.262 | 129 | 752986 | 160.63 | ug/Kg | 97 |
| 64) | 1,3-Dichloropropane | 9.359 | 76 | 952028 | 153.67 | ug/Kg | 97 |
| 65) | 1,2-Dibromoethane | 9.518 | 107 | 574317 | 159.52 | ug/Kg | 99 |
| 66) | 2-hexanone | 9.694 | 43 | 1450858 | 744.01 | ug/Kg | 95 |
| 67) | 1-Chlorohexane | 9.974 | 91 | 967721 | 149.22 | ug/Kg | 94 |
| 68) | Ethylbenzene | 10.035 | 91 | 2937363 | 126.36 | ug/Kg | 91 |
| 69) | Chlorobenzene | 10.023 | 112 | 1727327 | 133.14 | ug/Kg | 96 |
| 70) | 1,1,1,2-Tetrachloroethane | 10.083 | 131 | 839736 | 141.73 | ug/Kg | 91 |
| 71) | m,p-Xylene | 10.175 | 91 | 4240483 | 248.86 | ug/Kg | 86 |
| 72) | o-Xylene | 10.613 | 91 | 2803907 | 149.70 | ug/Kg | 91 |
| 73) | Styrene | 10.667 | 104 | 1801021 | 147.90 | ug/Kg | 97 |
| 74) | Bromoform | 10.716 | 173 | 361405 | 159.94 | ug/Kg | 90 |
| 75) | Isopropylbenzene | 10.923 | 105 | 3291711 | 149.91 | ug/Kg | 92 |
| 78) | cis-1,4-Dichloro-2-butene | 11.288 | 53 | 149782 | 148.53 | ug/Kg | 84 |
| 79) | n-Propylbenzene | 11.343 | 91 | 3251234 | 128.43 | ug/Kg | 92 |
| 80) | Bromobenzene | 11.343 | 156 | 717831 | 144.90 | ug/Kg | 97 |
| 81) | 1,1,2,2-Tetrachloroethane | 11.422 | 83 | 759431 | 134.61 | ug/Kg | 98 |
| 82) | 1,3,5-Trimethylbenzene | 11.537 | 105 | 2753948 | 151.00 | ug/Kg | 91 |
| 83) | 2-Chlorotoluene | 11.519 | 91 | 2561350 | 134.98 | ug/Kg | 97 |
| 84) | trans-1,4-Dichloro-2-B... | 11.604 | 53 | 144023 | 163.51 | ug/Kg | 79 |
| 85) | 1,2,3-Trichloropropane | 11.574 | 110 | 204001 | 138.85 | ug/Kg | 95 |
| 86) | Cyclohexanone | 11.629 | 55 | 121634 | 804.63 | ug/Kg | 99 |
| 87) | 4-Chlorotoluene | 11.689 | 91 | 2186971 | 141.24 | ug/Kg | 97 |
| 88) | tert-Butylbenzene | 11.866 | 91 | 2008336 | 150.25 | ug/Kg | 91 |
| 89) | 1,2,4-Trimethylbenzene | 11.939 | 105 | 2730891 | 150.78 | ug/Kg | 91 |
| 90) | Pentachloroethane | 11.908 | 167 | 504353 | 151.34 | ug/Kg | 92 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115584.D
Acq On : 12 May 2016 2:07 pm
Operator : ericp
Sample : IC4595-6 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 07:22:06 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:28:21 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) sec-Butylbenzene | 12.048 | 105 | 3529279 | 147.90 | ug/Kg | 96 |
| 92) 4-Isopropyltoluene | 12.188 | 119 | 2958251 | 149.88 | ug/Kg | 95 |
| 93) 1,3-Dichlorobenzene | 12.304 | 146 | 1337006 | 136.13 | ug/Kg | 97 |
| 94) 1,4-Dichlorobenzene | 12.389 | 146 | 1277697 | 134.96 | ug/Kg | 98 |
| 95) n-Butylbenzene | 12.632 | 92 | 1620227 | 150.13 | ug/Kg | 97 |
| 96) Benzyl Chloride | 12.645 | 126 | 283874 | 150.65 | ug/Kg# | 48 |
| 97) 1,2-Dichlorobenzene | 12.833 | 146 | 1391624 | 139.89 | ug/Kg | 94 |
| 98) 1,2-Dibromo-3-Chloropr... | 13.642 | 75 | 195159 | 153.78 | ug/Kg | 91 |
| 99) Hexachlorobutadiene | 14.220 | 225 | 643430 | 151.30 | ug/Kg | 90 |
| 100) 1,2,4-Trichlorobenzene | 14.263 | 180 | 1059016 | 151.36 | ug/Kg | 95 |
| 101) Naphthalene | 14.555 | 128 | 2594248 | 148.74 | ug/Kg | 93 |
| 102) 1,2,3-Trichlorobenzene | 14.713 | 180 | 1049551 | 145.73 | ug/Kg | 100 |
| 104) Ethanol | 3.604 | 45 | 83083m | 2772.55 | ug/Kg | |
| 105) Acrolein | 4.018 | 56 | 476174 | 750.37 | ug/Kg | 93 |
| 106) Tert butyl alcohol | 4.608 | 59 | 735288 | 1426.50 | ug/Kg | 99 |
| 107) Isobutyl alcohol | 6.652 | 42 | 260636 | 2586.73 | ug/Kg | 83 |
| 108) Tert Amyl Alcohol | 6.762 | 59 | 577703 | 1503.76 | ug/Kg | 99 |
| 109) 1,4-Dioxane | 7.851 | 88 | 121353 | 2926.09 | ug/Kg | 92 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed



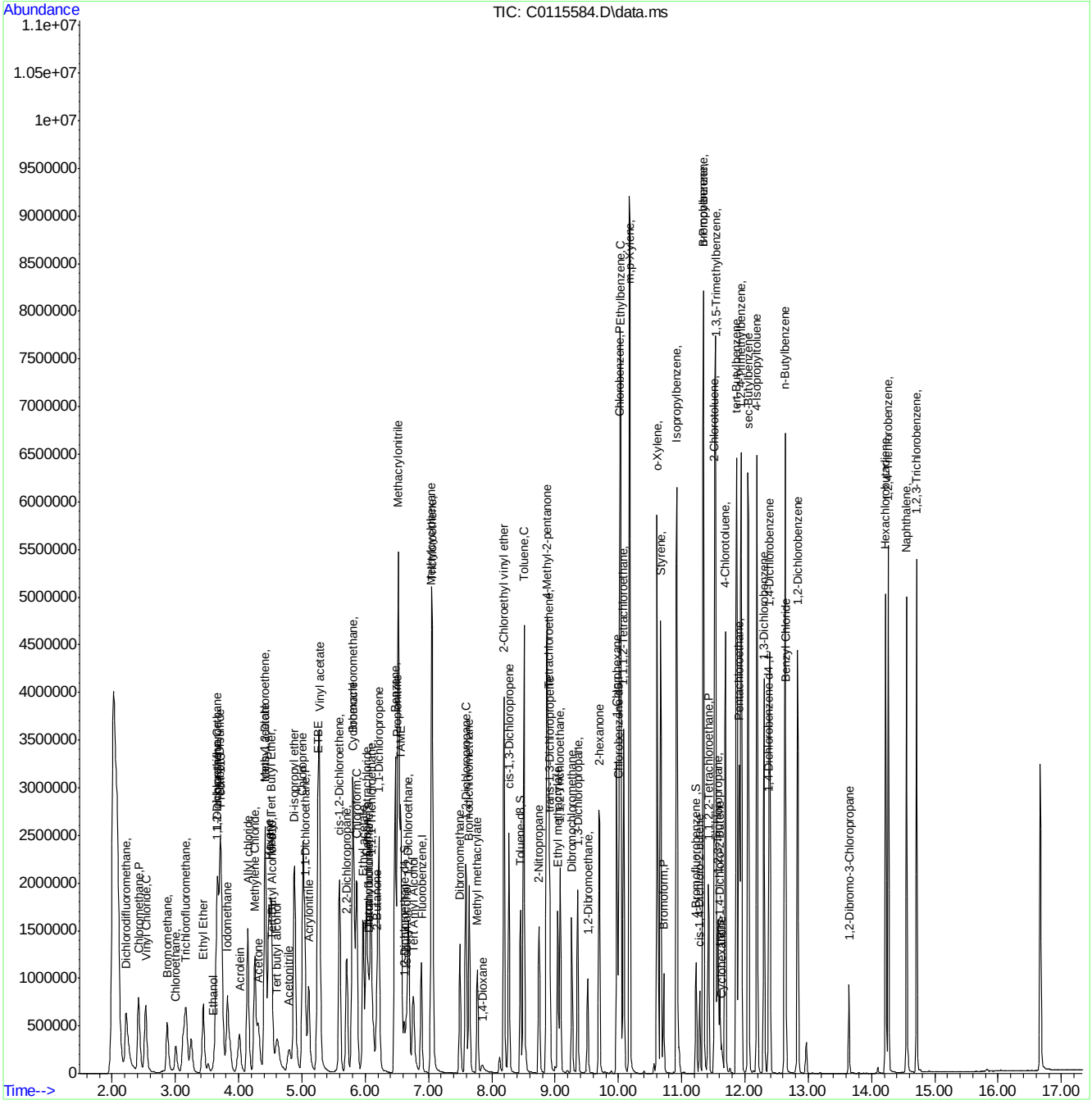


SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115584.D
Acq On : 12 May 2016 2:07 pm
Operator : ericp
Sample : IC4595-6 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 07:22:06 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:28:21 2016
Response via : Initial Calibration




051216APP9-C-Soil.m Fri May 13 07:51:21 2016 Page: 4

# Manual Integration Approval Summary



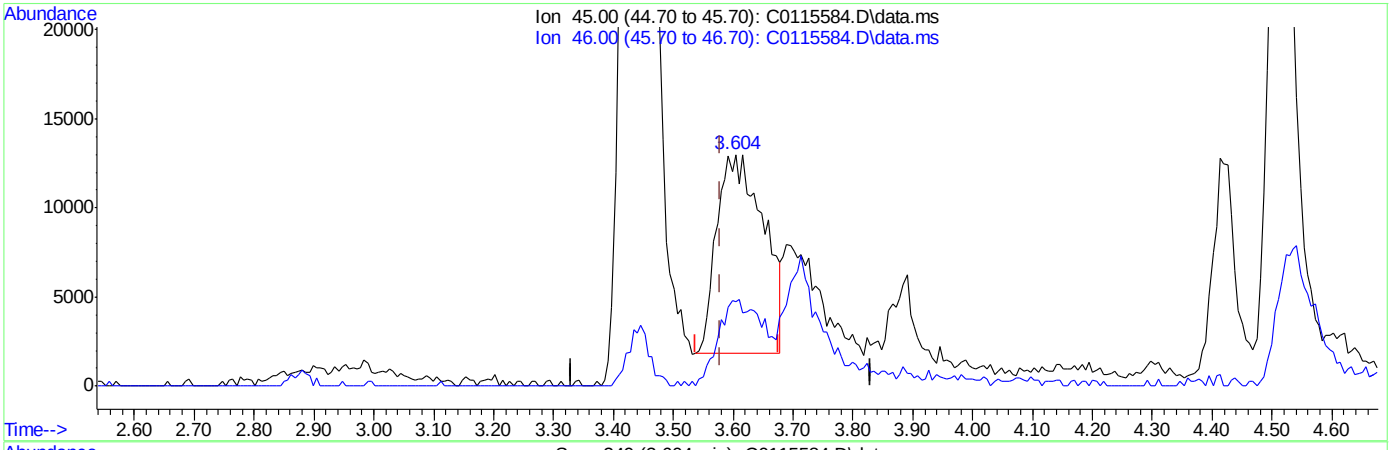
| | | | |
|---|---|---|---|
| **Sample Number:** | VC4595-IC4595 | **Method:** | SW846 8260B |
| **Lab FileID:** | C0115584.D | **Analyst approved:** | 05/13/16 08:01 Eric Parrish |
| **Injection Time:** | 05/12/16 14:07 | **Supervisor approved:** | 05/13/16 11:58 Melissa Mangual |

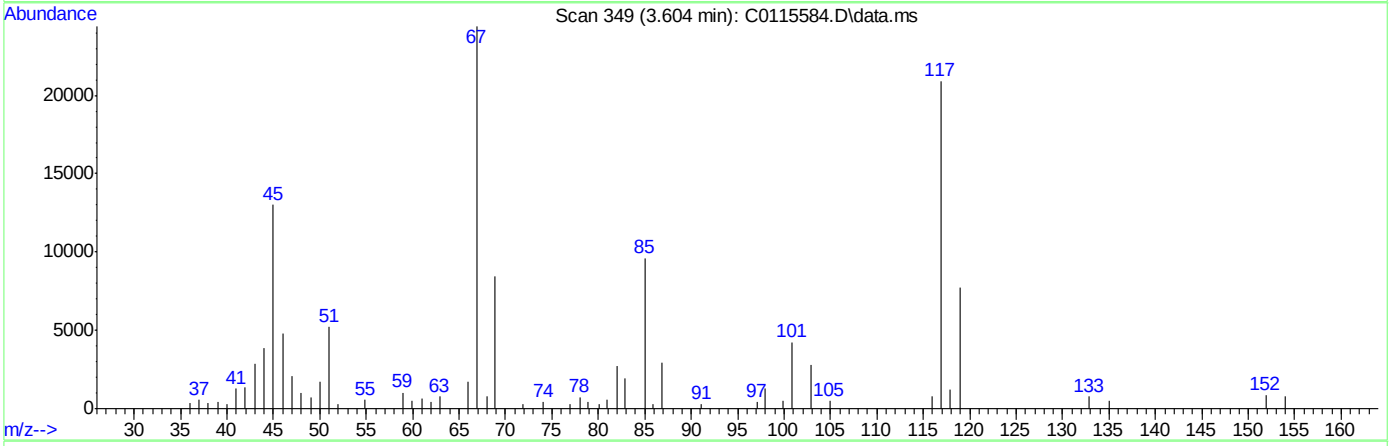
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Ethyl Alcohol | 64-17-5 | | 3.60 | Split peak |
| Methyl Acetate | 79-20-9 | | 4.42 | Overlapping peak |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115584.D
Acq On : 12 May 2016 2:07 pm
Operator : ericp
Sample : IC4595-6 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 12 14:31:08 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:28:21 2016
Response via : Initial Calibration




TIC: C0115584.D\data.ms

(104) Ethanol

3.604min (+0.024) 1999.78ug/Kg

response 59926

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 42.87 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

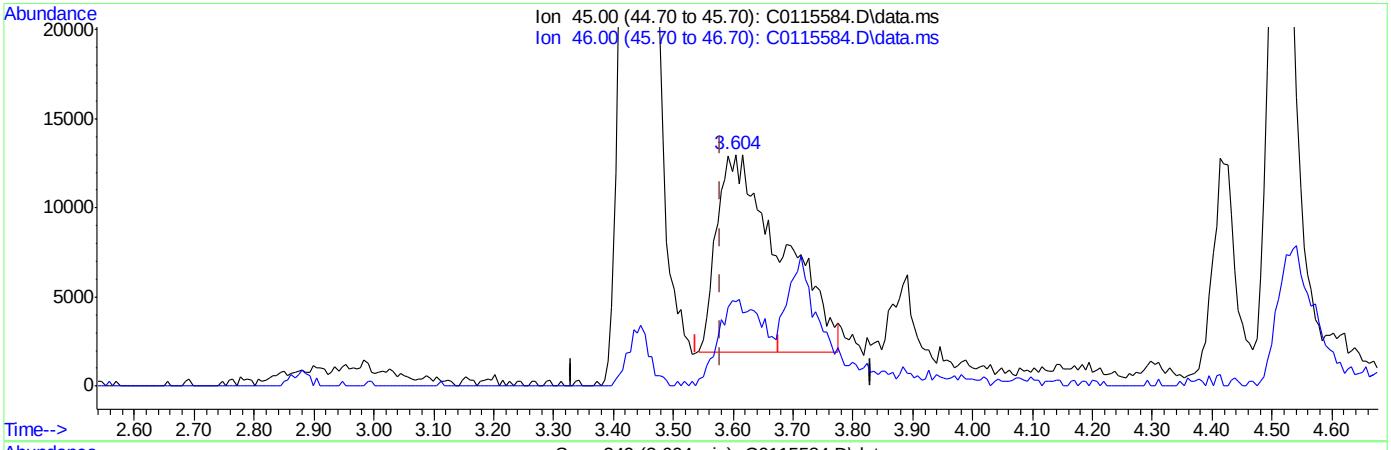


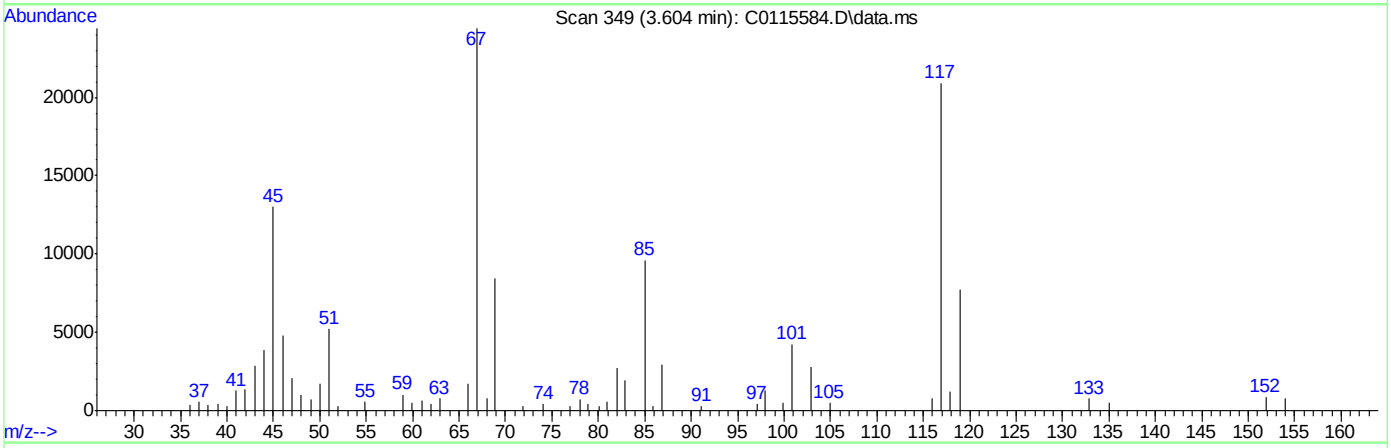
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115584.D
Acq On : 12 May 2016 2:07 pm
Operator : ericp
Sample : IC4595-6 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 12 14:31:08 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:28:21 2016
Response via : Initial Calibration




TIC: C0115584.D\data.ms

(104) Ethanol

3.604min (+0.024) 2772.55ug/Kg m

response 83083

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 36.68 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

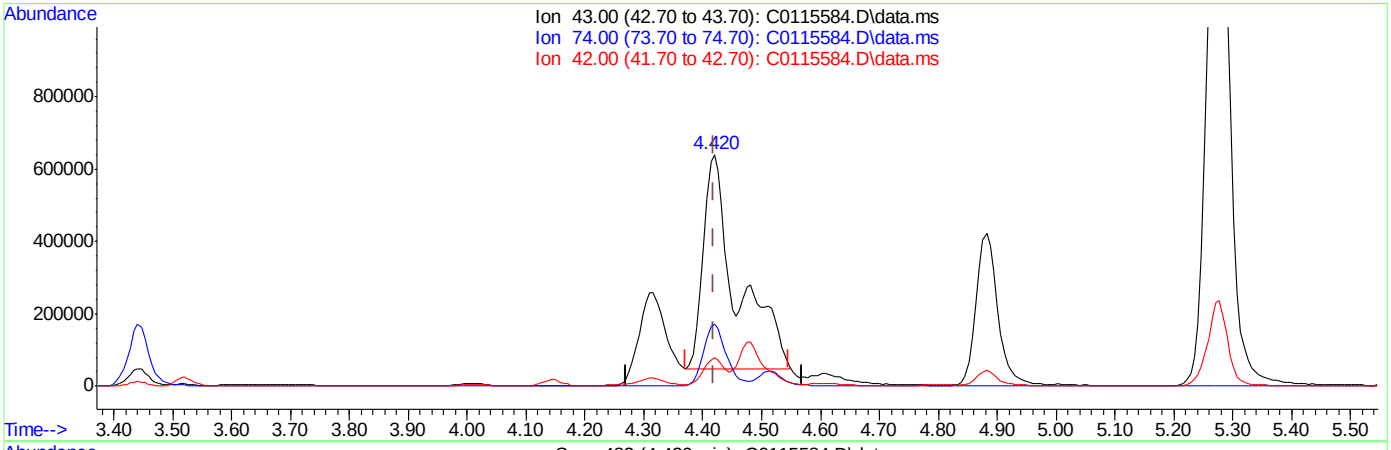


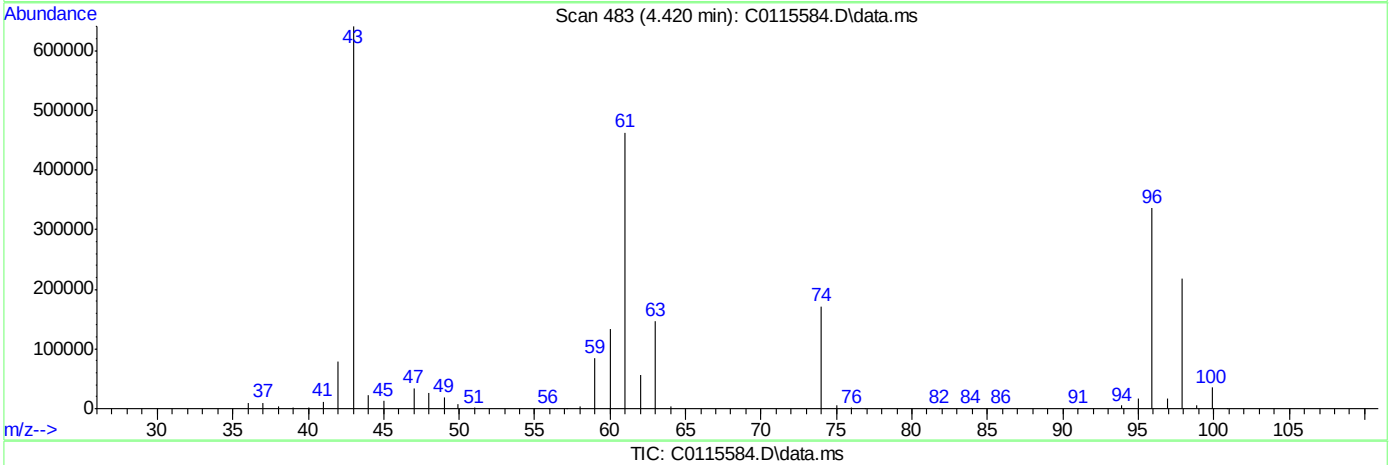
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115584.D
Acq On : 12 May 2016 2:07 pm
Operator : ericp
Sample : IC4595-6 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 12 14:31:30 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:28:21 2016
Response via : Initial Calibration




TIC: C0115584.D\data.ms

(17) Methyl acetate

4.420min (-0.000) 694.24ug/Kg

response 2333314

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 74.00 | 28.40 | 28.73 |
| 42.00 | 15.10 | 12.49 |
| 0.00 | 0.00 | 0.00 |

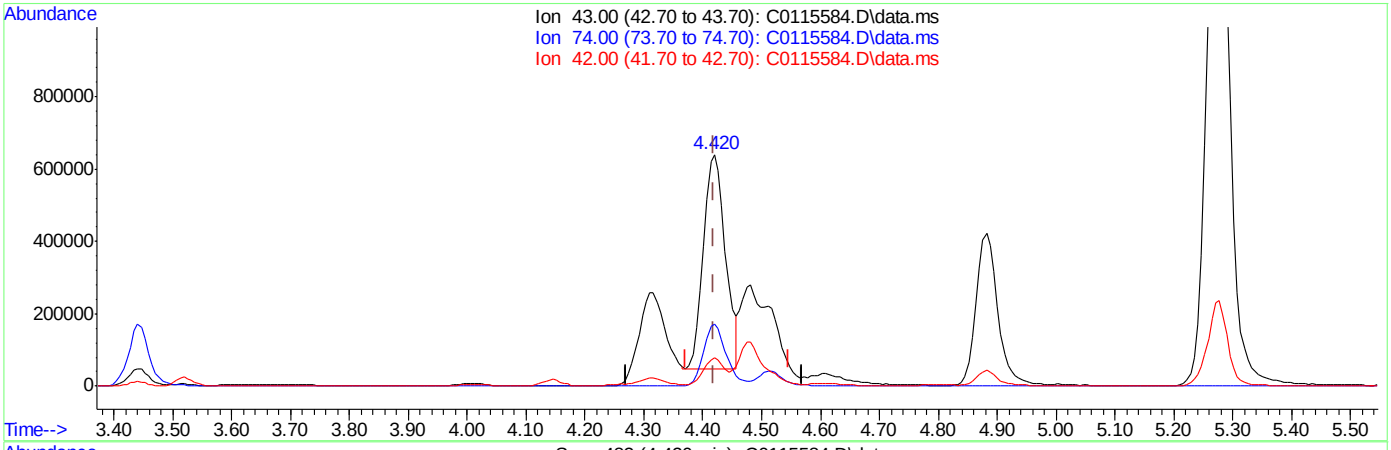


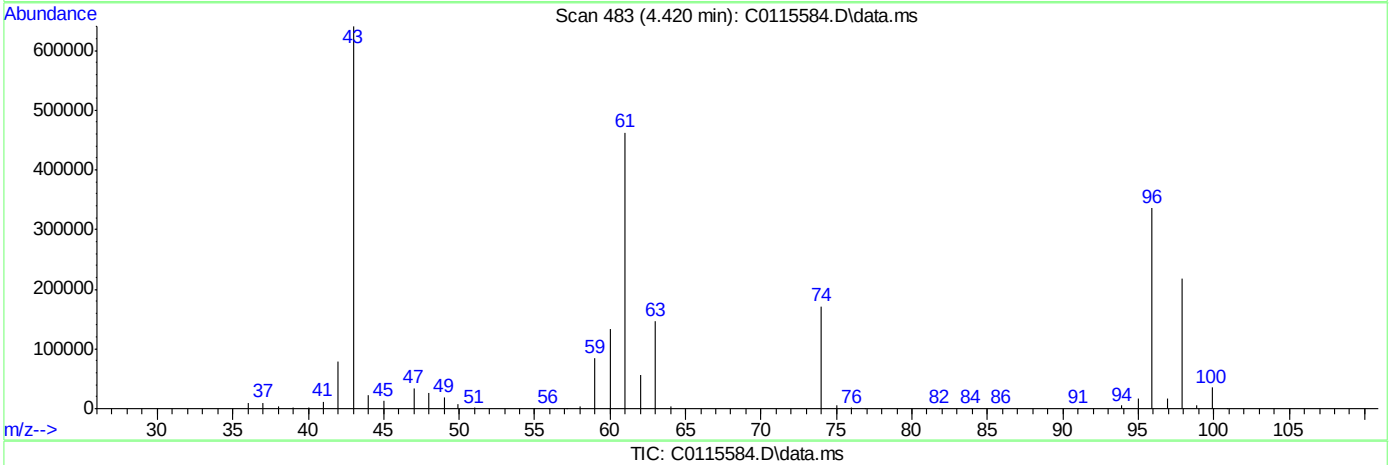
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115584.D
Acq On : 12 May 2016 2:07 pm
Operator : ericp
Sample : IC4595-6 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 12 14:31:30 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:28:21 2016
Response via : Initial Calibration




TIC: C0115584.D\data.ms

(17) Methyl acetate

4.420min (-0.000) 455.85ug/Kg m

response 1532069

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 74.00 | 28.40 | 26.77 |
| 42.00 | 15.10 | 12.40 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

C0115585.D

Manual Integrations APPROVED (compounds with "m" flag)

Melissa Mangual 05/13/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 13 07:21:26 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 6.884 | 96 | 968493 | 50.00 | ug/Kg | 0.00 |
| 54) Chlorobenzene-d5 | 10.011 | 117 | 656187 | 50.00 | ug/Kg | 0.00 |
| 76) 1,4-Dichlorobenzene-d4 | 12.377 | 152 | 352543 | 50.00 | ug/Kg | 0.00 |
| 103) Tert Butyl Alcohol-d10 | 4.548 | 65 | 90823 | 250.00 | ug/Kg | 0.02 |
| System Monitoring Compounds | | | | | | |
| 35) Dibromofluoromethane | 6.056 | 113 | 264495 | 46.69 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 93.38% | | | |
| 44) 1,2-Dichloroethane-d4 | 6.616 | 65 | 302137 | 47.01 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 72 - 135 | | Recovery = 94.02% | | | |
| 55) Toluene-d8 | 8.453 | 98 | 980986 | 51.50 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 126 | | Recovery = 103.00% | | | |
| 77) 4-Bromofluorobenzene | 11.227 | 174 | 244867 | 53.39 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 71 - 133 | | Recovery = 106.78% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.217 | 85 | 2072961 | 189.65 | ug/Kg | 97 |
| 3) Chloromethane | 2.418 | 50 | 1802870 | 175.05 | ug/Kg | 96 |
| 4) Vinyl Chloride | 2.528 | 62 | 1641341 | 190.37 | ug/Kg | 99 |
| 5) Bromomethane | 2.868 | 94 | 647419 | 202.04 | ug/Kg | 91 |
| 6) Chloroethane | 3.002 | 64 | 436749 | 202.25 | ug/Kg | 92 |
| 7) Trichlorofluoromethane | 3.160 | 101 | 1875271 | 169.66 | ug/Kg | 99 |
| 8) Ethyl Ether | 3.440 | 59 | 701541 | 161.09 | ug/Kg | 93 |
| 9) 1,2-Dichlorotrifluoroe... | 3.659 | 67 | 1106027 | 204.08 | ug/Kg | 92 |
| 10) 1,1-Dichloroethene | 3.659 | 61 | 1658617 | 203.56 | ug/Kg | 94 |
| 11) Freon 113 | 3.714 | 101 | 1136210 | 204.29 | ug/Kg | 98 |
| 12) Carbon Disulfide | 3.708 | 76 | 3087265 | 203.88 | ug/Kg | 95 |
| 13) Iodomethane | 3.817 | 142 | 1994284 | 180.16 | ug/Kg | 91 |
| 14) Allyl chloride | 4.146 | 41 | 1466309 | 202.51 | ug/Kg | 85 |
| 15) Methylene Chloride | 4.255 | 49 | 1188004 | 203.72 | ug/Kg | 95 |
| 16) Acetone | 4.310 | 43 | 1129223 | 1009.56 | ug/Kg | 88 |
| 17) Methyl acetate | 4.420 | 43 | 1904996m | 574.97 | ug/Kg | |
| 18) trans-1,2-Dichloroethene | 4.414 | 61 | 1414007 | 202.95 | ug/Kg | 100 |
| 19) Hexane | 4.474 | 56 | 792794 | 204.89 | ug/Kg | 90 |
| 20) Methyl Tert Butyl Ether | 4.517 | 73 | 2849512 | 178.54 | ug/Kg | 95 |
| 21) Acetonitrile | 4.803 | 41 | 612580 | 2018.72 | ug/Kg | 94 |
| 22) Di-isopropyl ether | 4.882 | 45 | 2668740 | 165.94 | ug/Kg | 98 |
| 23) Chloroprene | 5.016 | 53 | 1971889 | 170.77 | ug/Kg | 91 |
| 24) 1,1-Dichloroethane | 5.046 | 63 | 1788562 | 202.49 | ug/Kg | 95 |
| 25) Acrylonitrile | 5.107 | 52 | 1011961 | 868.55 | ug/Kg | 92 |
| 26) ETBE | 5.253 | 59 | 2884733 | 171.63 | ug/Kg | 94 |
| 27) Vinyl acetate | 5.278 | 43 | 5875433 | 1012.34 | ug/Kg | 95 |
| 28) cis-1,2-Dichloroethene | 5.594 | 96 | 1291565 | 171.68 | ug/Kg | 98 |
| 29) 2,2-Dichloropropane | 5.703 | 77 | 1192344 | 205.06 | ug/Kg | 94 |
| 30) Bromochloromethane | 5.801 | 128 | 574148 | 171.67 | ug/Kg | 93 |
| 31) Cyclohexane | 5.807 | 84 | 1701759 | 168.38 | ug/Kg | 96 |
| 32) Chloroform | 5.868 | 83 | 2120123 | 201.15 | ug/Kg | 99 |
| 33) Ethyl acetate | 5.971 | 43 | 2708660 | 911.37 | ug/Kg | 98 |
| 34) Tetrahydrofuran | 6.050 | 42 | 159001 | 201.33 | ug/Kg | 90 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 13 07:21:26 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) | Carbon Tetrachloride | 6.020 | 117 | 2094488 | 177.53 | ug/Kg | 99 |
| 37) | 1,1,1-Trichloroethane | 6.093 | 97 | 1873428 | 201.98 | ug/Kg | 95 |
| 38) | 2-Butanone | 6.190 | 43 | 1484173 | 863.72 | ug/Kg | 91 |
| 39) | 1,1-Dichloropropene | 6.214 | 75 | 1524523 | 173.86 | ug/Kg | 94 |
| 40) | Propionitrile | 6.513 | 54 | 837329 | 2025.17 | ug/Kg | 75 |
| 41) | Methacrylonitrile | 6.531 | 41 | 3398095 | 1605.38 | ug/Kg | 98 |
| 42) | Benzene | 6.470 | 78 | 3771167 | 159.61 | ug/Kg | 99 |
| 43) | TAME | 6.561 | 73 | 2703969 | 180.55 | ug/Kg | 95 |
| 45) | 1,2-Dichloroethane | 6.683 | 62 | 1443576 | 173.97 | ug/Kg | 96 |
| 46) | Trichloroethene | 7.060 | 95 | 1115089 | 172.39 | ug/Kg | 95 |
| 47) | Methylcyclohexane | 7.048 | 83 | 1817750 | 170.15 | ug/Kg | 98 |
| 48) | Dibromomethane | 7.498 | 93 | 696417 | 187.88 | ug/Kg | 90 |
| 49) | 1,2-Dichloropropane | 7.589 | 63 | 989527 | 181.32 | ug/Kg | 83 |
| 50) | Bromodichloromethane | 7.644 | 83 | 1507670 | 185.68 | ug/Kg | 98 |
| 51) | Methyl methacrylate | 7.772 | 41 | 602528 | 201.96 | ug/Kg | 90 |
| 52) | 2-Chloroethyl vinyl ether | 8.198 | 63 | 1972529 | 994.72 | ug/Kg | 96 |
| 53) | cis-1,3-Dichloropropene | 8.271 | 75 | 1578482 | 208.00 | ug/Kg | 93 |
| 56) | Toluene | 8.508 | 91 | 3751638 | 169.01 | ug/Kg | 89 |
| 57) | 2-Nitropropane | 8.745 | 41 | 1151470 | 1019.51 | ug/Kg | 94 |
| 58) | 4-Methyl-2-pentanone | 8.873 | 43 | 3018722 | 793.75 | ug/Kg | 96 |
| 59) | trans-1,3-Dichloropropene | 8.922 | 75 | 1131942 | 206.94 | ug/Kg | 97 |
| 60) | Tetrachloroethene | 8.891 | 166 | 1093057 | 195.64 | ug/Kg | 95 |
| 61) | Ethyl methacrylate | 9.043 | 69 | 963545 | 199.51 | ug/Kg | 95 |
| 62) | 1,1,2-Trichloroethane | 9.080 | 83 | 631945 | 179.42 | ug/Kg | 94 |
| 63) | Dibromochloromethane | 9.262 | 129 | 1024604 | 210.16 | ug/Kg | 92 |
| 64) | 1,3-Dichloropropane | 9.360 | 76 | 1272682 | 199.31 | ug/Kg | 96 |
| 65) | 1,2-Dibromoethane | 9.518 | 107 | 774692 | 207.37 | ug/Kg | 92 |
| 66) | 2-hexanone | 9.694 | 43 | 1912471 | 1002.44 | ug/Kg | 95 |
| 67) | 1-Chlorohexane | 9.980 | 91 | 1366628 | 201.90 | ug/Kg | 92 |
| 68) | Ethylbenzene | 10.035 | 91 | 3813314 | 163.86 | ug/Kg | 87 |
| 69) | Chlorobenzene | 10.029 | 112 | 2295783 | 175.14 | ug/Kg | 99 |
| 70) | 1,1,1,2-Tetrachloroethane | 10.084 | 131 | 1129224 | 186.84 | ug/Kg | 90 |
| 71) | m,p-Xylene | 10.181 | 91 | 5345941 | 314.99 | ug/Kg | 78 |
| 72) | o-Xylene | 10.613 | 91 | 3677319 | 201.28 | ug/Kg | 86 |
| 73) | Styrene | 10.668 | 104 | 2422497 | 198.70 | ug/Kg | 97 |
| 74) | Bromoform | 10.716 | 173 | 527820 | 222.29 | ug/Kg | 93 |
| 75) | Isopropylbenzene | 10.923 | 105 | 4355548 | 201.67 | ug/Kg | 88 |
| 78) | cis-1,4-Dichloro-2-butene | 11.288 | 53 | 219063 | 197.48 | ug/Kg# | 84 |
| 79) | n-Propylbenzene | 11.343 | 91 | 4264592 | 198.68 | ug/Kg | 87 |
| 80) | Bromobenzene | 11.343 | 156 | 994737 | 177.63 | ug/Kg | 99 |
| 81) | 1,1,2,2-Tetrachloroethane | 11.422 | 83 | 1061768 | 167.83 | ug/Kg | 100 |
| 82) | 1,3,5-Trimethylbenzene | 11.538 | 105 | 3747658 | 198.55 | ug/Kg | 87 |
| 83) | 2-Chlorotoluene | 11.519 | 91 | 3462614 | 163.32 | ug/Kg | 95 |
| 84) | trans-1,4-Dichloro-2-B... | 11.604 | 53 | 204488 | 201.38 | ug/Kg# | 76 |
| 85) | 1,2,3-Trichloropropane | 11.574 | 110 | 297407 | 178.89 | ug/Kg | 96 |
| 86) | Cyclohexanone | 11.635 | 55 | 175538 | 1007.26 | ug/Kg | 95 |
| 87) | 4-Chlorotoluene | 11.690 | 91 | 2967637 | 170.54 | ug/Kg | 94 |
| 88) | tert-Butylbenzene | 11.866 | 91 | 2771506 | 197.30 | ug/Kg | 90 |
| 89) | 1,2,4-Trimethylbenzene | 11.939 | 105 | 3634870 | 196.66 | ug/Kg | 87 |
| 90) | Pentachloroethane | 11.909 | 167 | 706930 | 186.33 | ug/Kg | 91 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 13 07:21:26 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 91) | sec-Butylbenzene | 12.055 | 105 | 4693111 | 191.59 | ug/Kg | 85 |
| 92) | 4-Isopropyltoluene | 12.195 | 119 | 4057634 | 197.92 | ug/Kg | 90 |
| 93) | 1,3-Dichlorobenzene | 12.304 | 146 | 1932193 | 174.49 | ug/Kg | 97 |
| 94) | 1,4-Dichlorobenzene | 12.395 | 146 | 1864006 | 174.61 | ug/Kg | 99 |
| 95) | n-Butylbenzene | 12.633 | 92 | 2324113 | 200.38 | ug/Kg | 91 |
| 96) | Benzyl Chloride | 12.645 | 126 | 411874 | 191.22 | ug/Kg# | 49 |
| 97) | 1,2-Dichlorobenzene | 12.833 | 146 | 2070878 | 183.30 | ug/Kg | 94 |
| 98) | 1,2-Dibromo-3-Chloropr... | 13.642 | 75 | 310873 | 210.82 | ug/Kg | 96 |
| 99) | Hexachlorobutadiene | 14.226 | 225 | 1103765 | 221.39 | ug/Kg | 98 |
| 100) | 1,2,4-Trichlorobenzene | 14.263 | 180 | 1657129 | 204.86 | ug/Kg | 95 |
| 101) | Naphthalene | 14.555 | 128 | 3808267 | 191.04 | ug/Kg | 85 |
| 102) | 1,2,3-Trichlorobenzene | 14.713 | 180 | 1665898 | 200.76 | ug/Kg | 99 |
| 104) | Ethanol | 3.629 | 45 | 99652m | 3803.18 | ug/Kg | |
| 105) | Acrolein | 4.012 | 56 | 636778 | 1117.97 | ug/Kg | 96 |
| 106) | Tert butyl alcohol | 4.620 | 59 | 1024579 | 2217.98 | ug/Kg | 93 |
| 107) | Isobutyl alcohol | 6.665 | 42 | 351338 | 3968.06 | ug/Kg | 94 |
| 108) | Tert Amyl Alcohol | 6.768 | 59 | 793541 | 2290.64 | ug/Kg | 96 |
| 109) | 1,4-Dioxane | 7.851 | 88 | 146729m | 4134.47 | ug/Kg | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

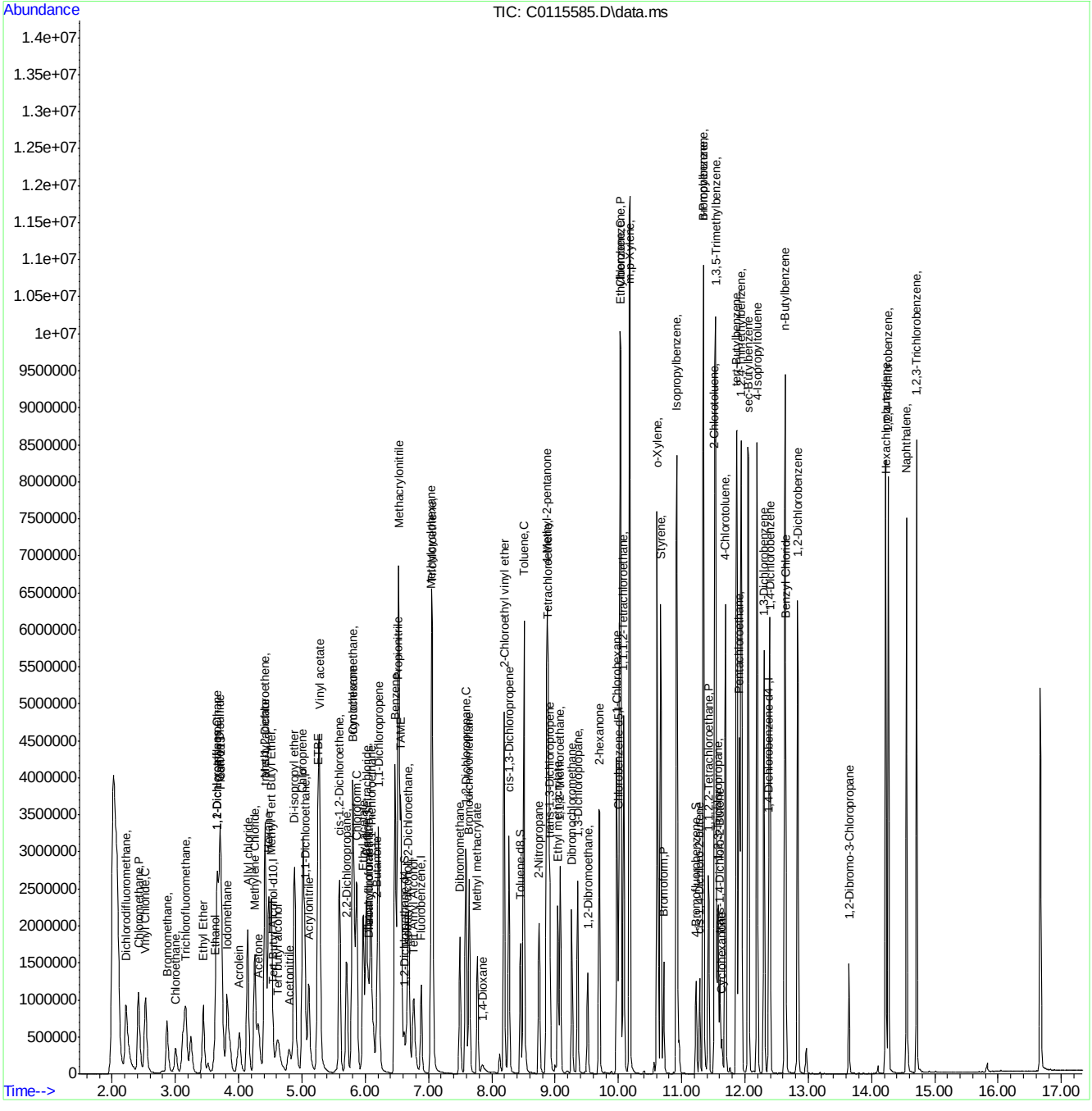



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 13 07:21:26 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration










SGS ACCUTEST FA33878

# Manual Integration Approval Summary



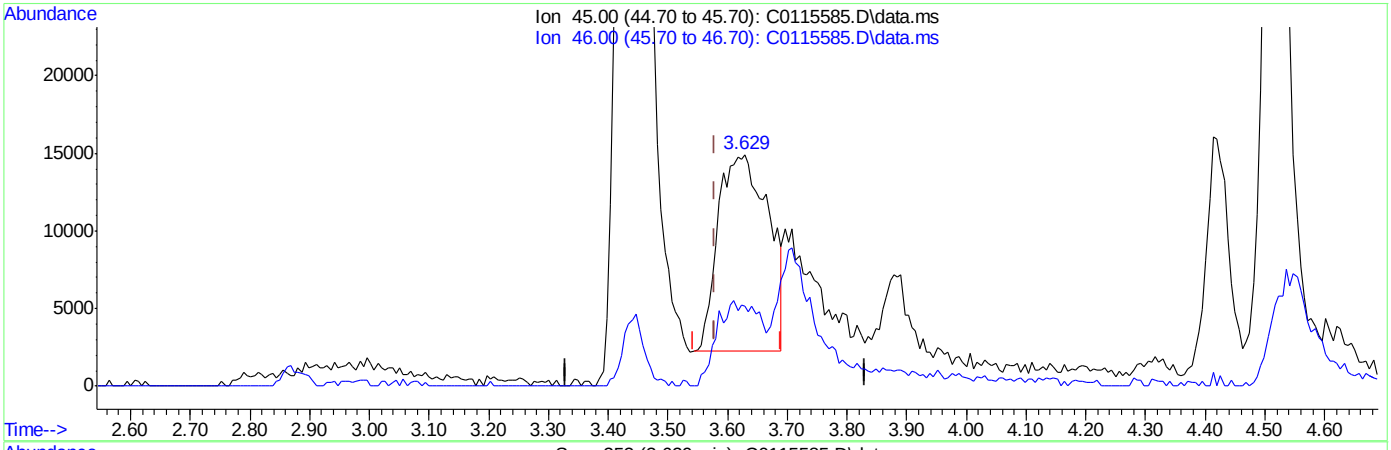
| | | | |
|---|---|---|---|
| **Sample Number:** | VC4595-IC4595 | **Method:** | SW846 8260B |
| **Lab FileID:** | C0115585.D | **Analyst approved:** | 05/13/16 08:01 Eric Parrish |
| **Injection Time:** | 05/12/16 14:33 | **Supervisor approved:** | 05/13/16 11:58 Melissa Mangual |

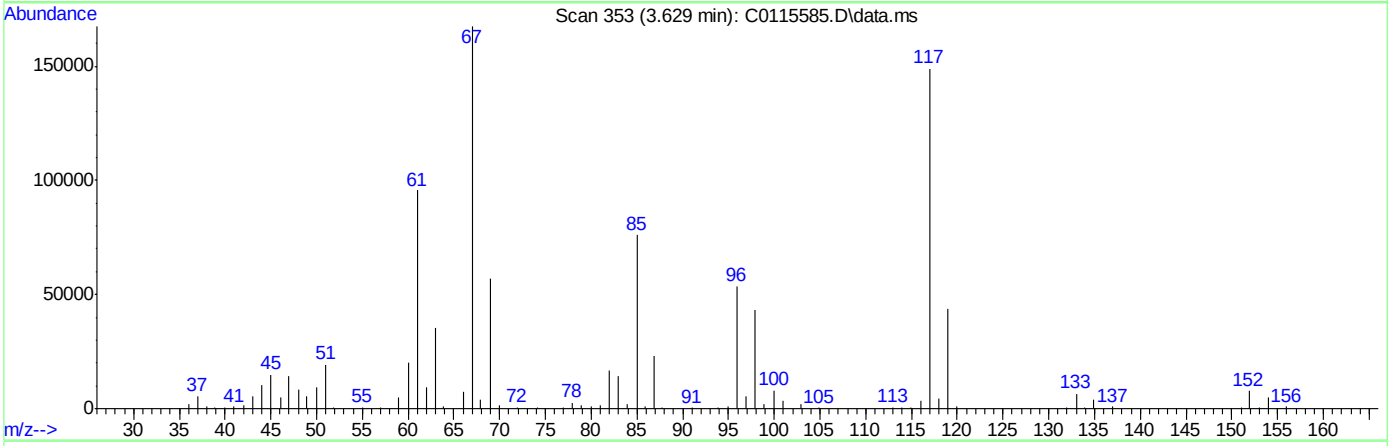
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Ethyl Alcohol | 64-17-5 | | 3.63 | Split peak |
| Methyl Acetate | 79-20-9 | | 4.42 | Overlapping peak |
| 1,4-Dioxane | 123-91-1 | | 7.85 | Poor instrument integration |

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 14:54:50 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration




TIC: C0115585.D\data.ms

(104) Ethanol

3.629min (+0.049) 2811.59ug/Kg

response 73670

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 40.91 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

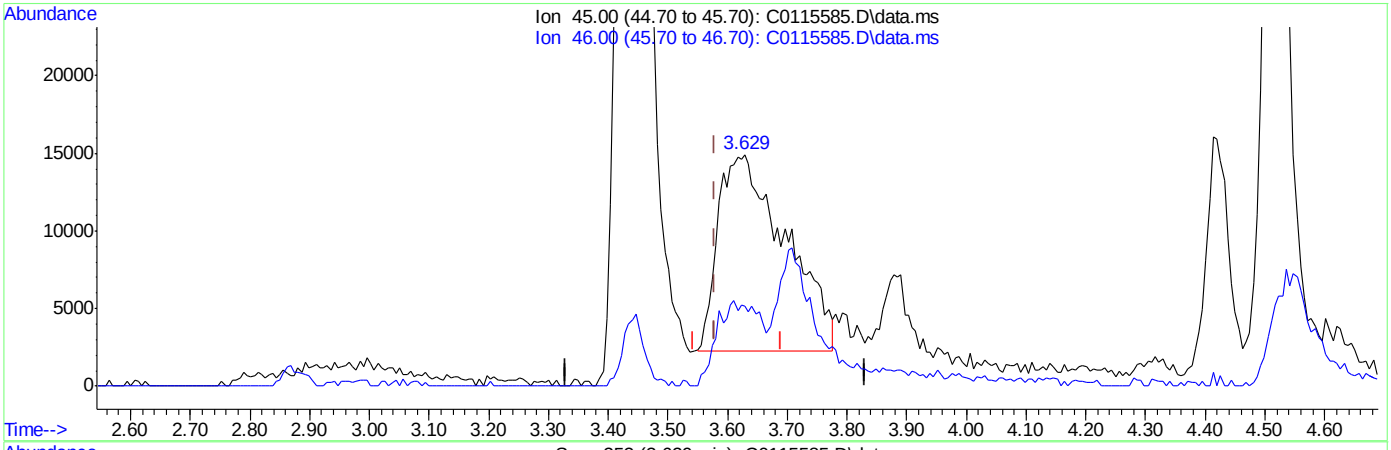


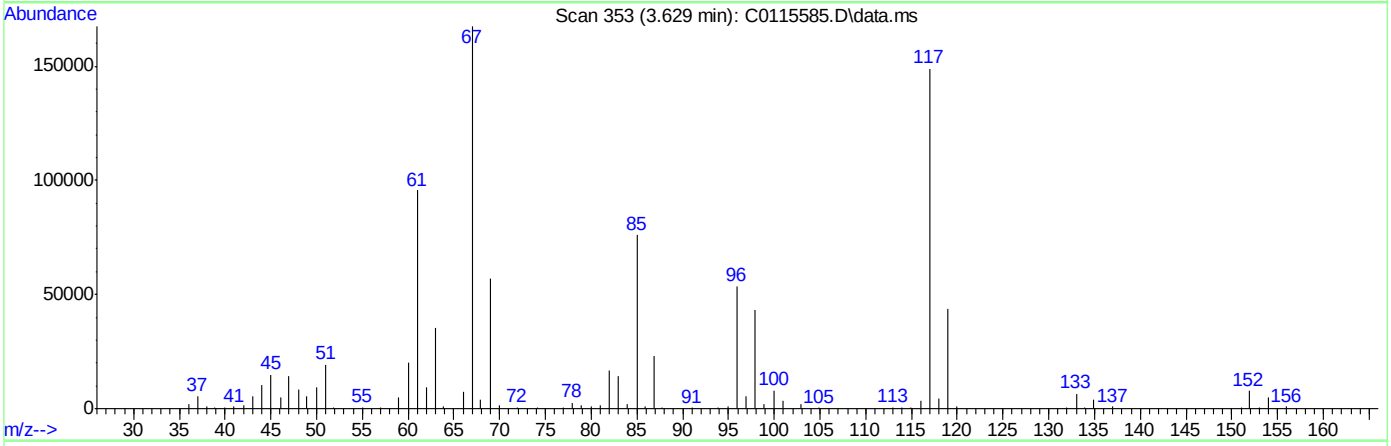
SGS ACCUTEST FA33878

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 14:54:50 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration




(104) Ethanol

3.629min (+0.049) 3803.18ug/Kg m

response 99652

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 34.64 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

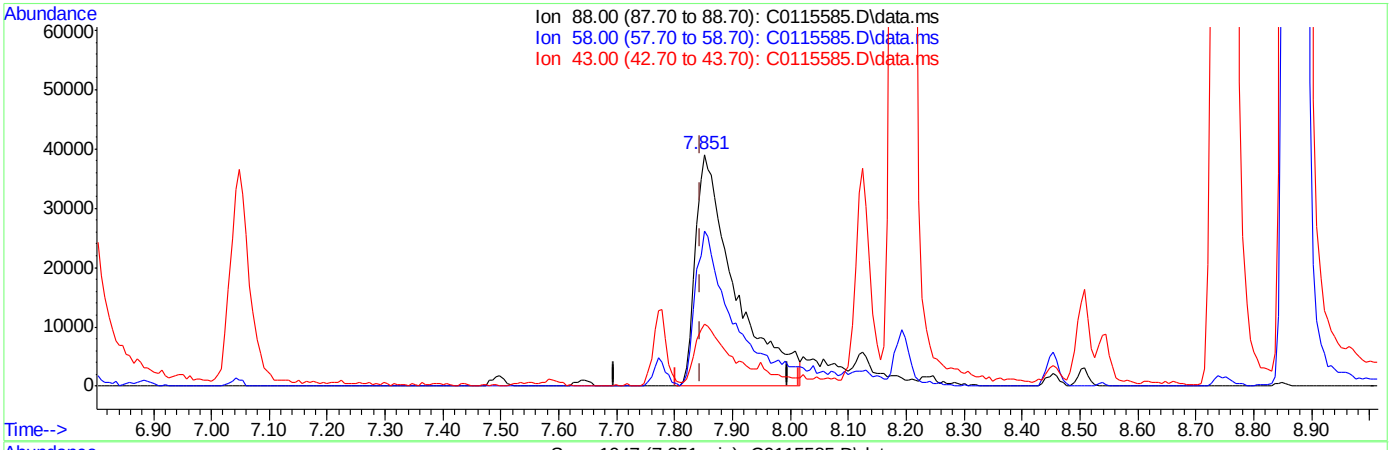


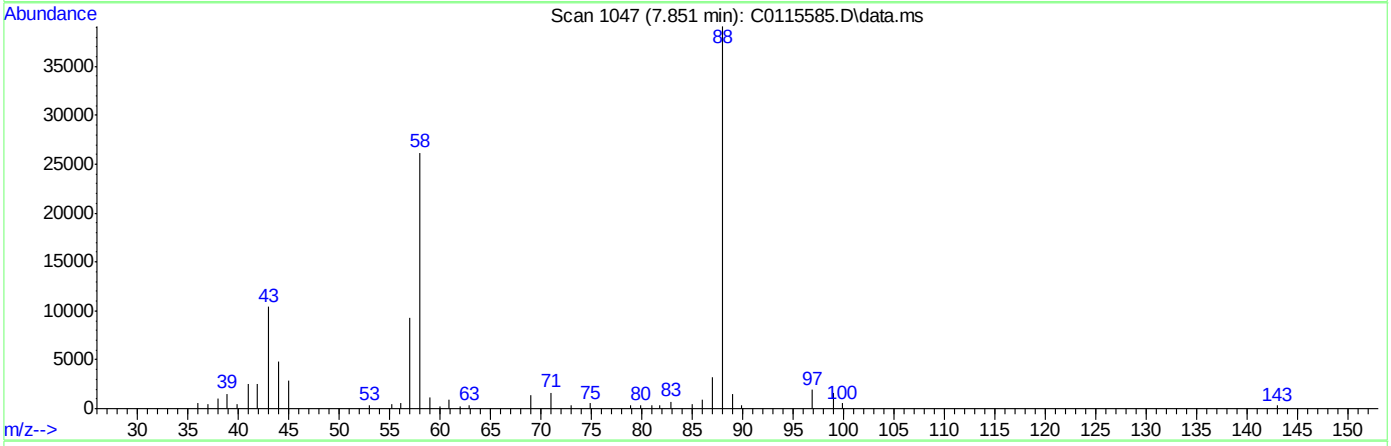
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 14:54:50 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration




TIC: C0115585.D\data.ms

(109) 1,4-Dioxane

7.851min (+0.006) 5199.21ug/Kg

response 184516

| Ion | Exp% | Act% |
|---|---|---|
| 88.00 | 100 | 100 |
| 58.00 | 60.50 | 65.76 |
| 43.00 | 26.20 | 24.65 |
| 0.00 | 0.00 | 0.00 |

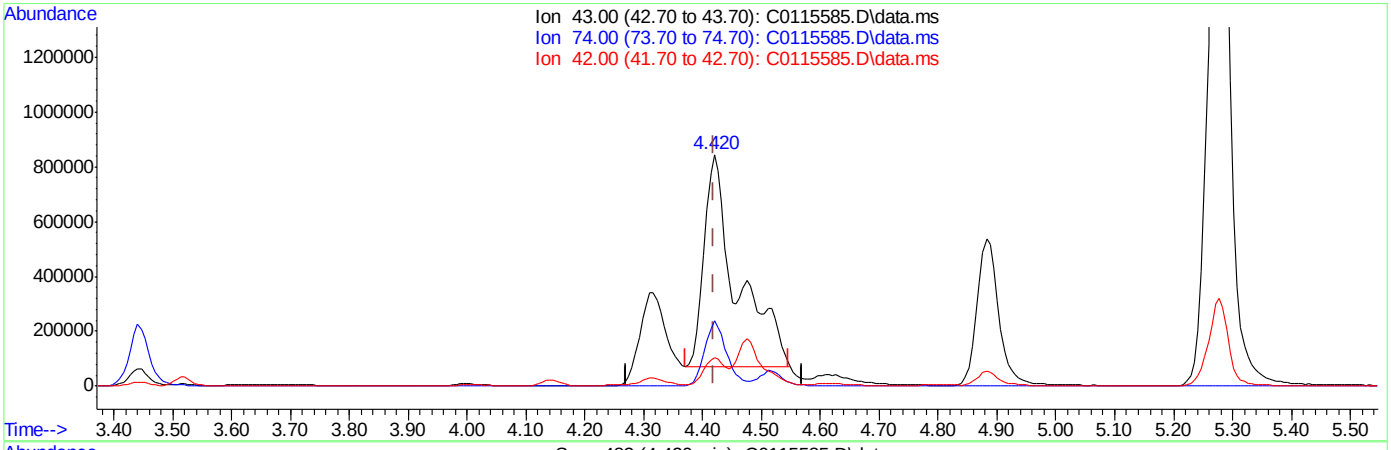


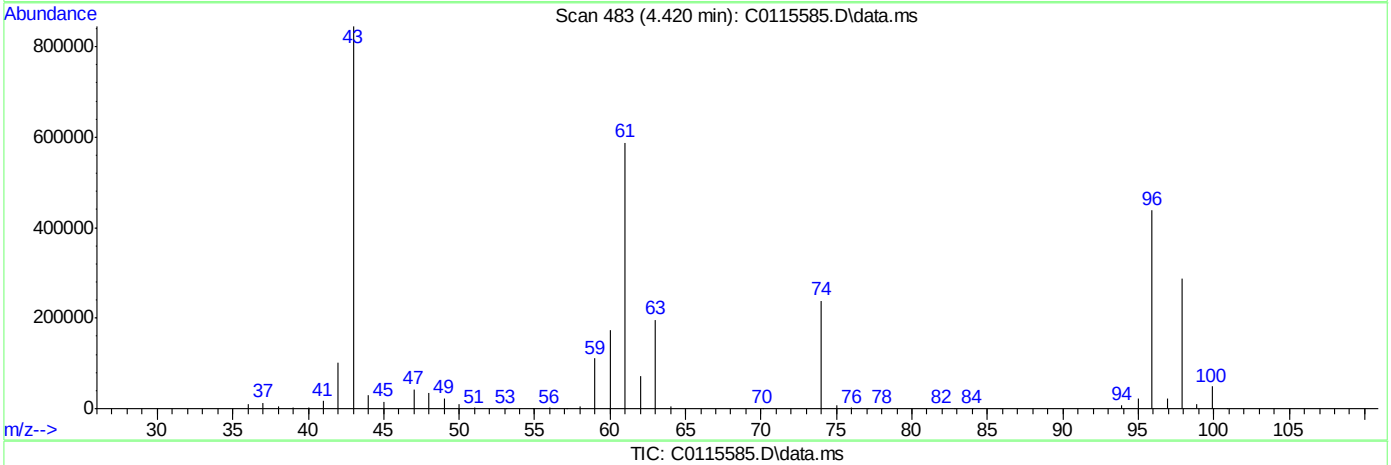
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 14:55:25 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration




TIC: C0115585.D\data.ms

(17) Methyl acetate

4.420min (-0.000) 912.36ug/Kg

response 3022828

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 74.00 | 28.40 | 30.61 |
| 42.00 | 15.10 | 12.43 |
| 0.00 | 0.00 | 0.00 |

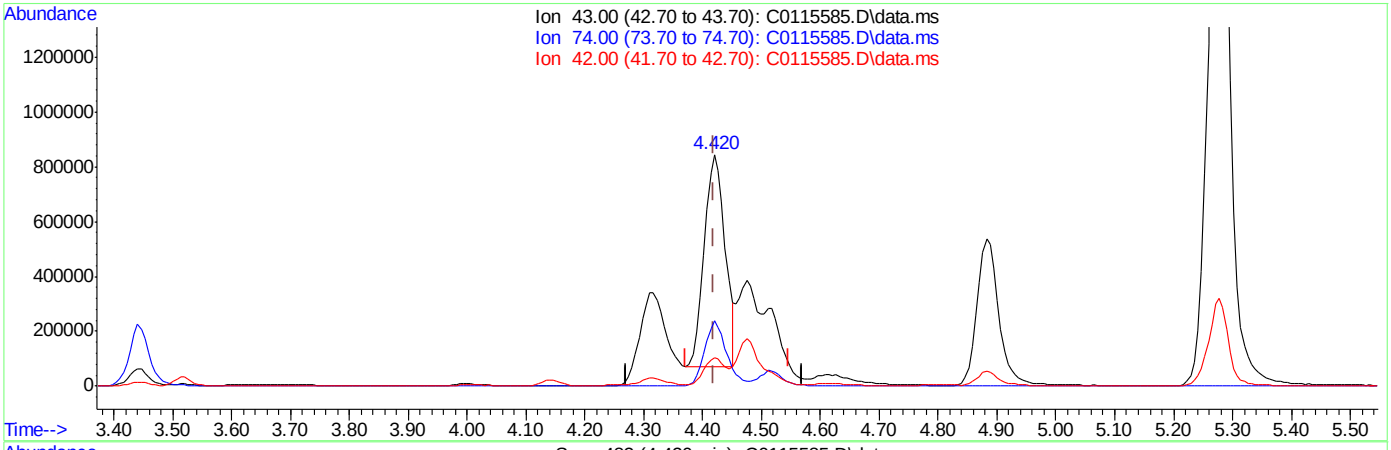


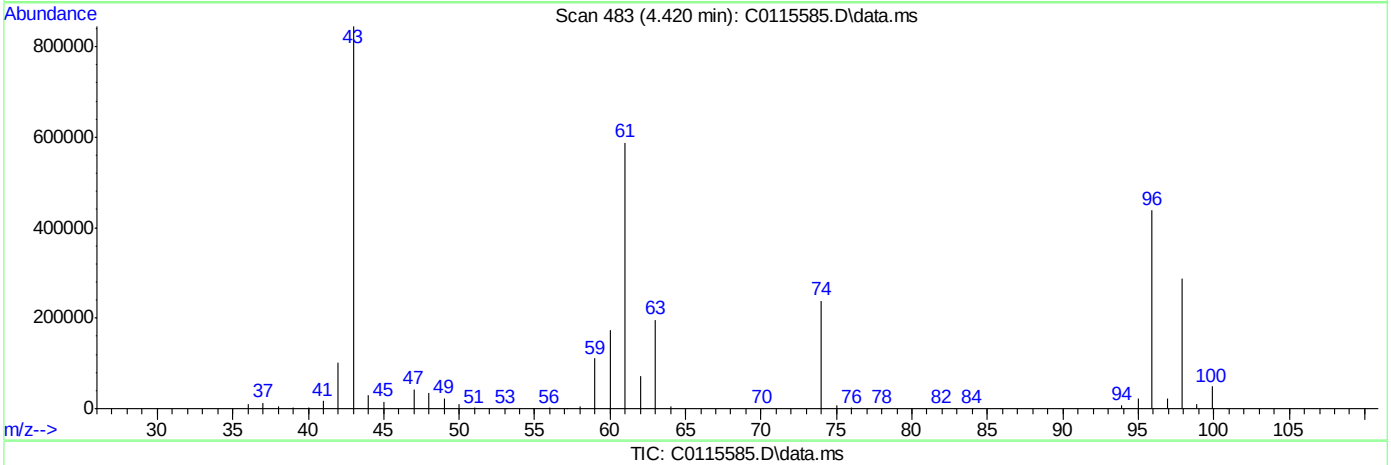
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 14:55:25 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration




TIC: C0115585.D\data.ms

(17) Methyl acetate

4.420min (-0.000) 574.97ug/Kg m

response 1904996

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 74.00 | 28.40 | 28.23 |
| 42.00 | 15.10 | 12.16 |
| 0.00 | 0.00 | 0.00 |

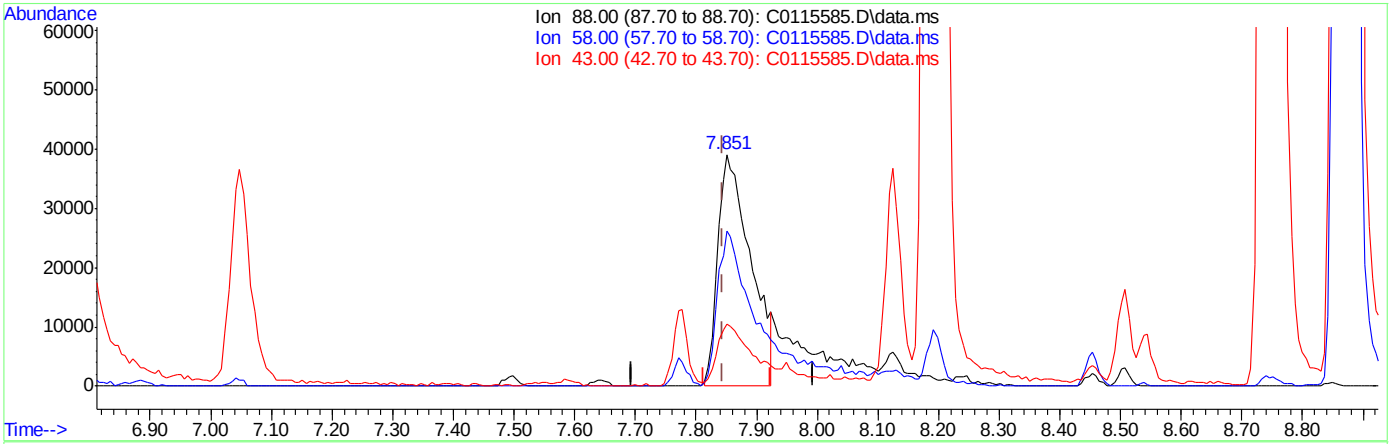


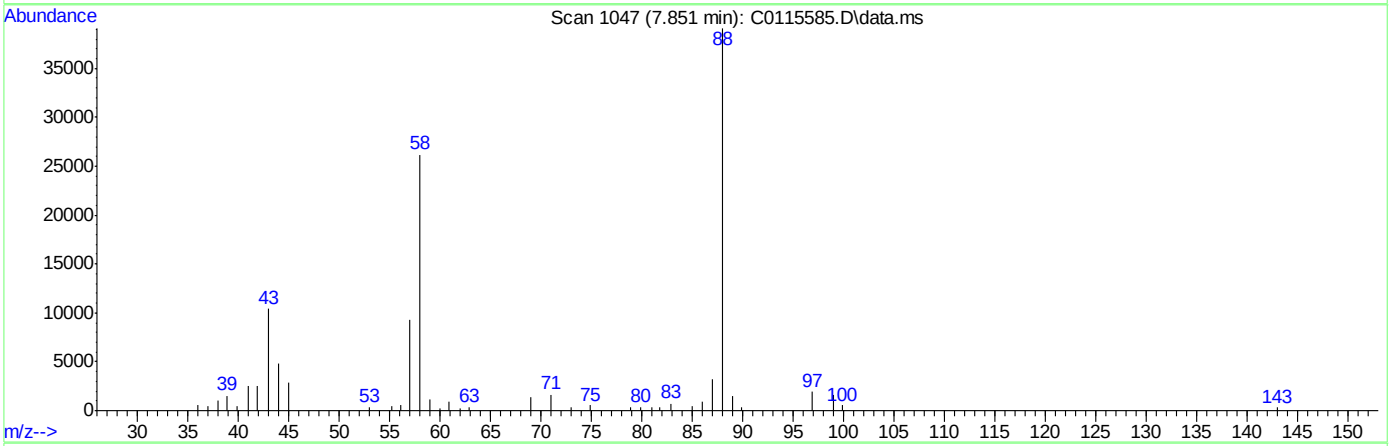
SGS ACCUTEST FA33878

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 13 07:21:26 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration




TIC: C0115585.D\data.ms

(109) 1,4-Dioxane

7.851min (+0.006) 4134.47ug/Kg m

response 146729

| Ion | Exp% | Act% |
|---|---|---|
| 88.00 | 100 | 100 |
| 58.00 | 60.50 | 66.89 |
| 43.00 | 26.20 | 26.62 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
05/13/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115587.D
Acq On : 12 May 2016 3:25 pm
Operator : ericp
Sample : ICV4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 13 07:25:36 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 6.890 | 96 | 963243 | 50.00 | ug/Kg | 0.00 |
| 54) Chlorobenzene-d5 | 10.004 | 117 | 651714 | 50.00 | ug/Kg | 0.00 |
| 76) 1,4-Dichlorobenzene-d4 | 12.371 | 152 | 334369 | 50.00 | ug/Kg | 0.00 |
| 103) Tert Butyl Alcohol-d10 | 4.523 | 65 | 87044 | 250.00 | ug/Kg | 0.00 |
| System Monitoring Compounds | | | | | | |
| 35) Dibromofluoromethane | 6.056 | 113 | 275022 | 48.82 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 97.64% | | | |
| 44) 1,2-Dichloroethane-d4 | 6.616 | 65 | 294399 | 46.05 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 72 - 135 | | Recovery = 92.10% | | | |
| 55) Toluene-d8 | 8.453 | 98 | 913623 | 48.29 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 126 | | Recovery = 96.58% | | | |
| 77) 4-Bromofluorobenzene | 11.227 | 174 | 221619 | 50.94 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 71 - 133 | | Recovery = 101.88% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.230 | 85 | 586270 | 53.93 | ug/Kg | 96 |
| 3) Chloromethane | 2.418 | 50 | 596844 | 58.27 | ug/Kg | 99 |
| 4) Vinyl Chloride | 2.534 | 62 | 473683 | 55.24 | ug/Kg | 99 |
| 5) Bromomethane | 2.880 | 94 | 195504 | 54.18 | ug/Kg | 96 |
| 6) Chloroethane | 3.020 | 64 | 157745 | 52.23 | ug/Kg | 92 |
| 7) Trichlorofluoromethane | 3.172 | 101 | 573875 | 52.20 | ug/Kg | 98 |
| 8) Ethyl Ether | 3.440 | 59 | 213440 | 49.28 | ug/Kg | 94 |
| 9) 1,2-Dichlorotrifluoroe... | 3.671 | 67 | 391305 | 58.83 | ug/Kg | 89 |
| 10) 1,1-Dichloroethene | 3.665 | 61 | 518294 | 53.26 | ug/Kg | 94 |
| 11) Freon 113 | 3.726 | 101 | 322054 | 52.91 | ug/Kg | 94 |
| 12) Carbon Disulfide | 3.714 | 76 | 988152 | 52.55 | ug/Kg | 94 |
| 13) Iodomethane | 3.829 | 142 | 551832 | 50.12 | ug/Kg | 91 |
| 14) Allyl chloride | 4.152 | 41 | 388297 | 45.21 | ug/Kg | 82 |
| 15) Methylene Chloride | 4.261 | 49 | 397350 | 54.57 | ug/Kg | 95 |
| 16) Acetone | 4.310 | 43 | 273654 | 213.77 | ug/Kg | 89 |
| 17) Methyl acetate | 4.420 | 43 | 593979 | 249.93 | ug/Kg | 97 |
| 18) trans-1,2-Dichloroethene | 4.426 | 61 | 467426 | 58.12 | ug/Kg | 99 |
| 19) Hexane | 4.480 | 56 | 226359 | 51.83 | ug/Kg | 90 |
| 20) Methyl Tert Butyl Ether | 4.517 | 73 | 787050 | 49.58 | ug/Kg | 96 |
| 21) Acetonitrile | 4.797 | 41 | 163317 | 454.25 | ug/Kg | 93 |
| 22) Di-isopropyl ether | 4.882 | 45 | 800094 | 50.02 | ug/Kg | 96 |
| 23) Chloroprene | 5.022 | 53 | 528249 | 46.00 | ug/Kg | 92 |
| 24) 1,1-Dichloroethane | 5.046 | 63 | 572969 | 54.01 | ug/Kg | 97 |
| 25) Acrylonitrile | 5.107 | 52 | 277542 | 239.51 | ug/Kg | 92 |
| 26) ETBE | 5.253 | 59 | 826777 | 49.46 | ug/Kg | 97 |
| 27) Vinyl acetate | 5.277 | 43 | 1883473 | 256.96 | ug/Kg | 97 |
| 28) cis-1,2-Dichloroethene | 5.600 | 96 | 371750 | 49.68 | ug/Kg | 98 |
| 29) 2,2-Dichloropropane | 5.709 | 77 | 416507 | 56.20 | ug/Kg | 95 |
| 30) Bromochloromethane | 5.807 | 128 | 156966 | 47.19 | ug/Kg# | 88 |
| 31) Cyclohexane | 5.807 | 84 | 487625 | 48.51 | ug/Kg | 95 |
| 32) Chloroform | 5.867 | 83 | 618449 | 52.19 | ug/Kg | 98 |
| 33) Ethyl acetate | 5.965 | 43 | 754352 | 255.20 | ug/Kg | 98 |
| 34) Tetrahydrofuran | 6.044 | 42 | 45048 | 53.20 | ug/Kg | 89 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115587.D
Acq On : 12 May 2016 3:25 pm
Operator : ericp
Sample : ICV4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 13 07:25:36 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 36) | Carbon Tetrachloride | 6.020 | 117 | 609615 | 51.95 | ug/Kg | 99 |
| 37) | 1,1,1-Trichloroethane | 6.093 | 97 | 563718 | 51.30 | ug/Kg | 94 |
| 38) | 2-Butanone | 6.184 | 43 | 372715 | 218.08 | ug/Kg | 95 |
| 39) | 1,1-Dichloropropene | 6.214 | 75 | 461651 | 52.93 | ug/Kg | 93 |
| 40) | Propionitrile | 6.506 | 54 | 244176 | 480.12 | ug/Kg | 87 |
| 41) | Methacrylonitrile | 6.518 | 41 | 1008885 | 479.23 | ug/Kg | 95 |
| 42) | Benzene | 6.476 | 78 | 1187053 | 50.51 | ug/Kg | 95 |
| 43) | TAME | 6.561 | 73 | 701764 | 47.11 | ug/Kg | 95 |
| 45) | 1,2-Dichloroethane | 6.683 | 62 | 411111 | 49.82 | ug/Kg | 94 |
| 46) | Trichloroethene | 7.060 | 95 | 328422 | 51.05 | ug/Kg | 99 |
| 47) | Methylcyclohexane | 7.048 | 83 | 559079 | 52.62 | ug/Kg | 98 |
| 48) | Dibromomethane | 7.498 | 93 | 188771 | 51.20 | ug/Kg | 87 |
| 49) | 1,2-Dichloropropane | 7.589 | 63 | 262953 | 48.44 | ug/Kg | 82 |
| 50) | Bromodichloromethane | 7.644 | 83 | 409398 | 50.69 | ug/Kg | 98 |
| 51) | Methyl methacrylate | 7.772 | 41 | 133259 | 49.44 | ug/Kg | 90 |
| 52) | 2-Chloroethyl vinyl ether | 8.191 | 63 | 531118 | 249.64 | ug/Kg | 96 |
| 53) | cis-1,3-Dichloropropene | 8.271 | 75 | 430280 | 57.01 | ug/Kg | 93 |
| 56) | Toluene | 8.508 | 91 | 1160609 | 52.64 | ug/Kg | 96 |
| 57) | 2-Nitropropane | 8.745 | 41 | 272600 | 243.02 | ug/Kg | 96 |
| 58) | 4-Methyl-2-pentanone | 8.867 | 43 | 924605 | 244.79 | ug/Kg | 95 |
| 59) | trans-1,3-Dichloropropene | 8.915 | 75 | 321434 | 59.17 | ug/Kg# | 82 |
| 60) | Tetrachloroethene | 8.897 | 166 | 277910 | 50.08 | ug/Kg | 94 |
| 61) | Ethyl methacrylate | 9.043 | 69 | 205443 | 44.78 | ug/Kg | 94 |
| 62) | 1,1,2-Trichloroethane | 9.080 | 83 | 174988 | 50.02 | ug/Kg | 96 |
| 63) | Dibromochloromethane | 9.262 | 129 | 262902 | 54.29 | ug/Kg | 93 |
| 64) | 1,3-Dichloropropane | 9.359 | 76 | 332140 | 52.37 | ug/Kg | 94 |
| 65) | 1,2-Dibromoethane | 9.512 | 107 | 199767 | 53.84 | ug/Kg | 94 |
| 66) | 2-hexanone | 9.694 | 43 | 496533 | 222.32 | ug/Kg | 95 |
| 67) | 1-Chlorohexane | 9.974 | 91 | 365786 | 52.51 | ug/Kg | 95 |
| 68) | Ethylbenzene | 10.035 | 91 | 1240675 | 53.68 | ug/Kg | 97 |
| 69) | Chlorobenzene | 10.023 | 112 | 694459 | 53.34 | ug/Kg | 97 |
| 70) | 1,1,1,2-Tetrachloroethane | 10.083 | 131 | 319881 | 53.29 | ug/Kg | 91 |
| 71) | m,p-Xylene | 10.175 | 91 | 1920170 | 113.92 | ug/Kg | 97 |
| 72) | o-Xylene | 10.613 | 91 | 1170629 | 53.72 | ug/Kg | 95 |
| 73) | Styrene | 10.667 | 104 | 696163 | 54.38 | ug/Kg | 95 |
| 74) | Bromoform | 10.716 | 173 | 128561 | 54.52 | ug/Kg | 94 |
| 75) | Isopropylbenzene | 10.923 | 105 | 1408713 | 55.36 | ug/Kg | 99 |
| 78) | cis-1,4-Dichloro-2-butene | 11.282 | 53 | 48556 | 44.10 | ug/Kg | 80 |
| 79) | n-Propylbenzene | 11.343 | 91 | 1514961 | 51.30 | ug/Kg | 99 |
| 80) | Bromobenzene | 11.343 | 156 | 274222 | 51.63 | ug/Kg | 92 |
| 81) | 1,1,2,2-Tetrachloroethane | 11.422 | 83 | 284407 | 47.40 | ug/Kg | 98 |
| 82) | 1,3,5-Trimethylbenzene | 11.537 | 105 | 1156033 | 49.06 | ug/Kg | 96 |
| 83) | 2-Chlorotoluene | 11.519 | 91 | 1104762 | 54.94 | ug/Kg | 98 |
| 84) | trans-1,4-Dichloro-2-B... | 11.604 | 53 | 48798 | 50.67 | ug/Kg | 78 |
| 85) | 1,2,3-Trichloropropane | 11.574 | 110 | 76078 | 48.25 | ug/Kg | 98 |
| 86) | Cyclohexanone | 11.629 | 55 | 39457 | 238.72 | ug/Kg | 95 |
| 87) | 4-Chlorotoluene | 11.689 | 91 | 932534 | 56.50 | ug/Kg | 100 |
| 88) | tert-Butylbenzene | 11.866 | 91 | 773578 | 47.65 | ug/Kg | 92 |
| 89) | 1,2,4-Trimethylbenzene | 11.939 | 105 | 1147223 | 49.32 | ug/Kg | 96 |
| 90) | Pentachloroethane | 11.908 | 167 | 194509 | 54.05 | ug/Kg | 88 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115587.D
Acq On : 12 May 2016 3:25 pm
Operator : ericp
Sample : ICV4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 13 07:25:36 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

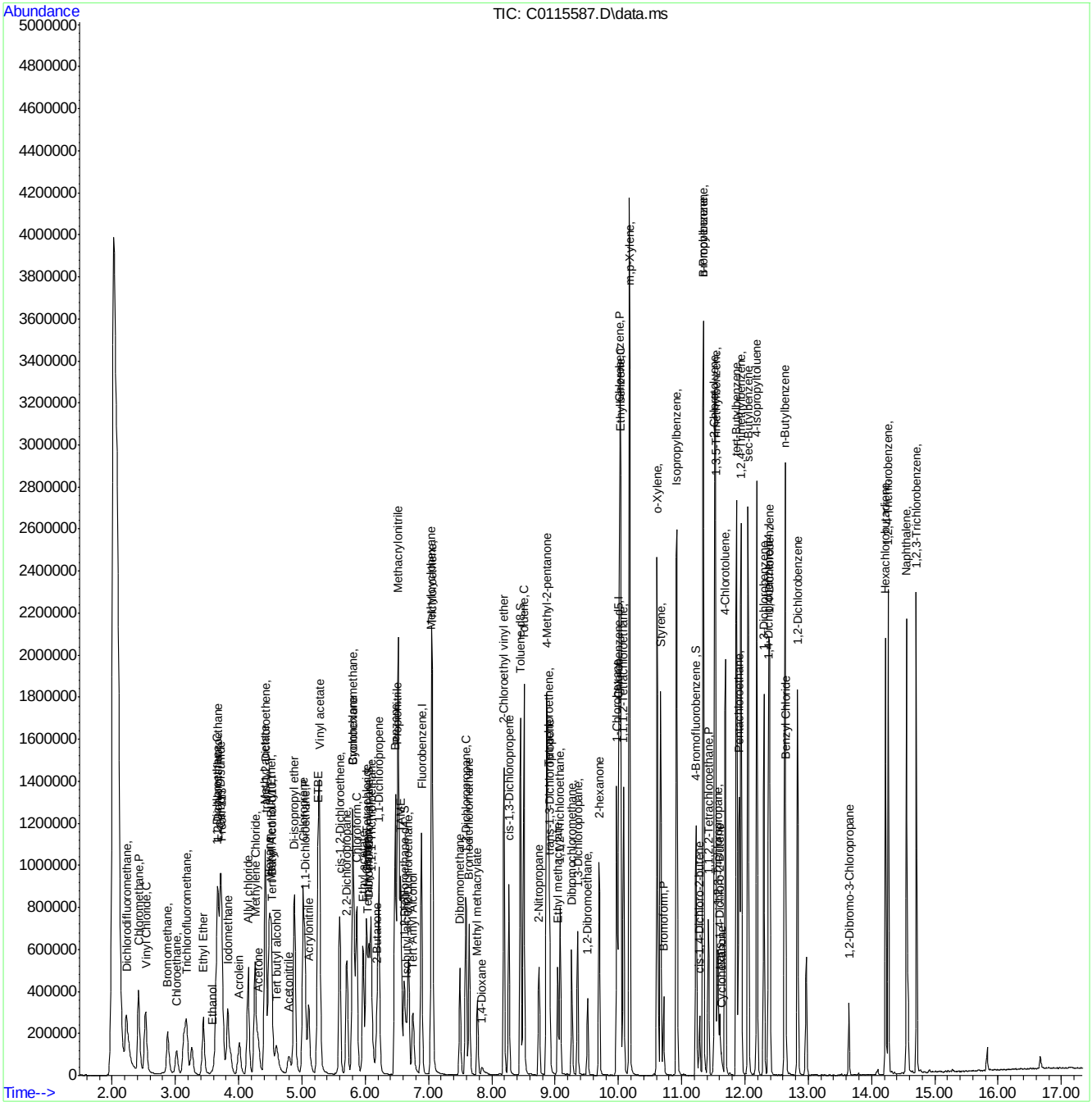
| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 91) | sec-Butylbenzene | 12.048 | 105 | 1519173 | 52.60 | ug/Kg | 99 |
| 92) | 4-Isopropyltoluene | 12.188 | 119 | 1236784 | 49.72 | ug/Kg | 99 |
| 93) | 1,3-Dichlorobenzene | 12.298 | 146 | 575467 | 54.79 | ug/Kg | 97 |
| 94) | 1,4-Dichlorobenzene | 12.389 | 146 | 549081 | 54.23 | ug/Kg | 98 |
| 95) | n-Butylbenzene | 12.626 | 92 | 697035 | 51.85 | ug/Kg | 99 |
| 96) | Benzyl Chloride | 12.645 | 126 | 111326 | 54.49 | ug/Kg# | 49 |
| 97) | 1,2-Dichlorobenzene | 12.833 | 146 | 593163 | 55.36 | ug/Kg | 98 |
| 98) | 1,2-Dibromo-3-Chloropr... | 13.642 | 75 | 69693 | 49.83 | ug/Kg | 91 |
| 99) | Hexachlorobutadiene | 14.220 | 225 | 244939 | 51.80 | ug/Kg | 89 |
| 100) | 1,2,4-Trichlorobenzene | 14.263 | 180 | 439744 | 57.32 | ug/Kg | 94 |
| 101) | Naphthalene | 14.555 | 128 | 1172105 | 59.05 | ug/Kg | 98 |
| 102) | 1,2,3-Trichlorobenzene | 14.713 | 180 | 451601 | 57.38 | ug/Kg | 97 |
| 104) | Ethanol | 3.592 | 45 | 30334m | 1166.63 | ug/Kg | |
| 105) | Acrolein | 4.012 | 56 | 176183 | 322.75 | ug/Kg | 97 |
| 106) | Tert butyl alcohol | 4.596 | 59 | 243941 | 551.00 | ug/Kg | 93 |
| 107) | Isobutyl alcohol | 6.652 | 42 | 91487 | 1078.13 | ug/Kg | 84 |
| 108) | Tert Amyl Alcohol | 6.756 | 59 | 186322 | 561.19 | ug/Kg | 96 |
| 109) | 1,4-Dioxane | 7.845 | 88 | 43299 | 1183.22 | ug/Kg | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115587.D
Acq On : 12 May 2016 3:25 pm
Operator : ericp
Sample : ICV4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 13 07:25:36 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration










SGS ACCUTEST FA33878

# Manual Integration Approval Summary



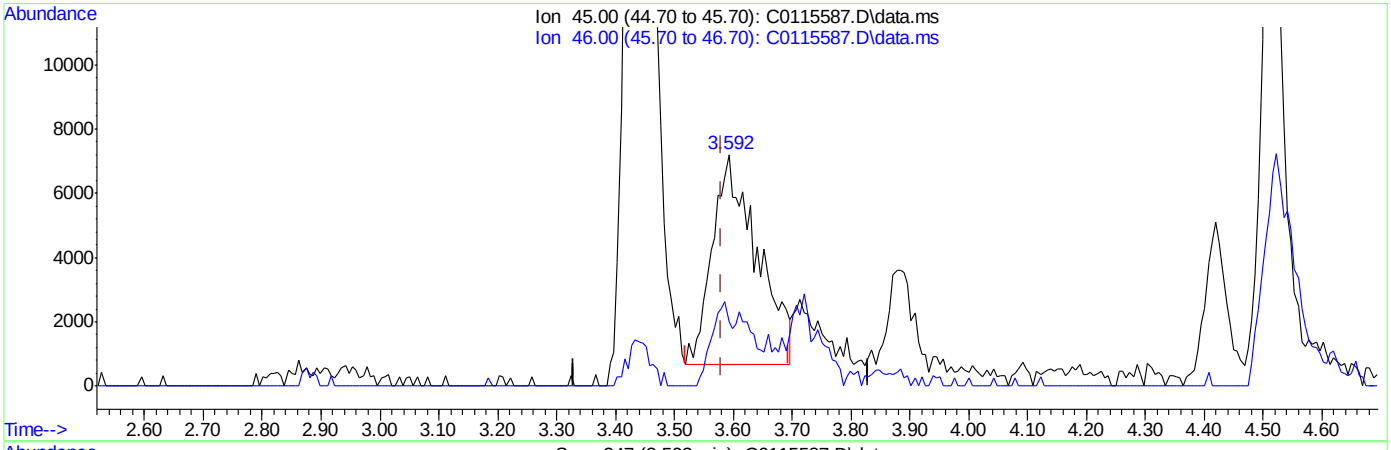
| | | | |
|---|---|---|---|
| **Sample Number:** | VC4595-ICV4595 | **Method:** | SW846 8260B |
| **Lab FileID:** | C0115587.D | **Analyst approved:** | 05/13/16 08:01 Eric Parrish |
| **Injection Time:** | 05/12/16 15:25 | **Supervisor approved:** | 05/13/16 11:58 Melissa Mangual |

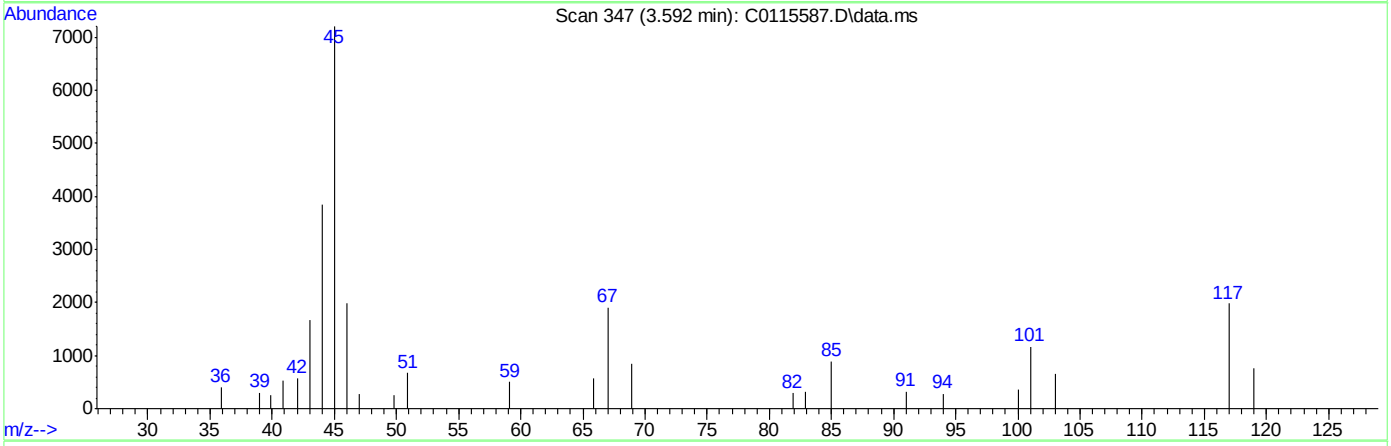
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Ethyl Alcohol | 64-17-5 | | 3.59 | Split peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115587.D
Acq On : 12 May 2016 3:25 pm
Operator : ericp
Sample : ICV4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 13 07:24:55 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration




TIC: C0115587.D\data.ms

(104) Ethanol

3.592min (+0.012) 1313.89ug/Kg

response 34163

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 30.48 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

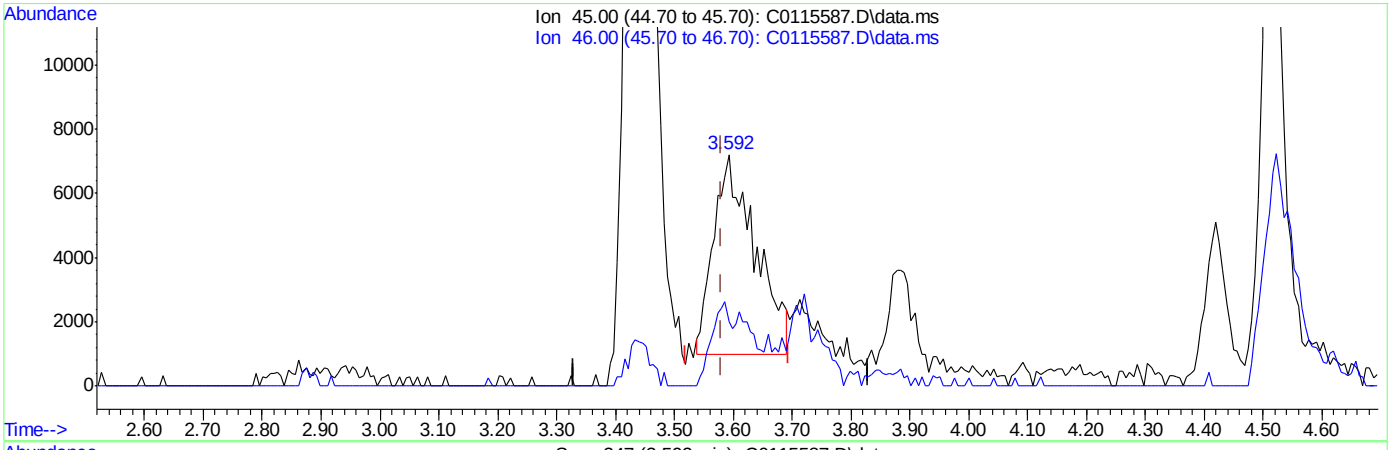


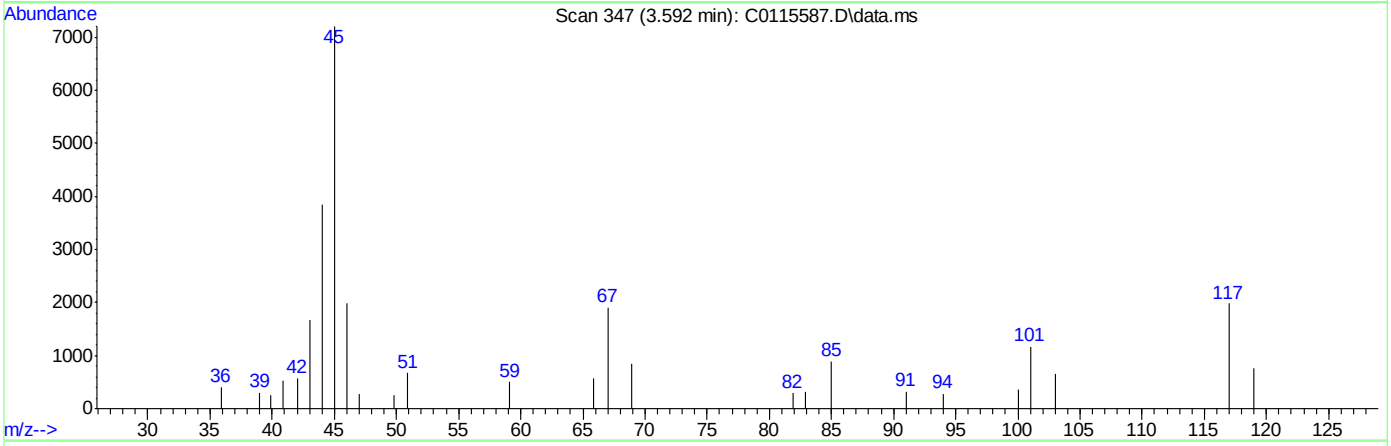
SGS ACCUTEST FA33878

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115587.D
Acq On : 12 May 2016 3:25 pm
Operator : ericp
Sample : ICV4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 13 07:24:55 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration




TIC: C0115587.D\data.ms

(104) Ethanol

3.592min (+0.012) 1166.63ug/Kg m

response 30334

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 27.61 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
05/13/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115600.D
Acq On : 12 May 2016 8:58 pm
Operator : ericp
Sample : ECC4595-4 Inst : MSVOA5
Misc : ms33860,vc4595,5.00,,,5,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 13 07:40:33 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 6.889 | 96 | 990087 | 50.00 | ug/Kg | 0.00 |
| 54) Chlorobenzene-d5 | 10.004 | 117 | 687002 | 50.00 | ug/Kg | 0.00 |
| 76) 1,4-Dichlorobenzene-d4 | 12.371 | 152 | 336645 | 50.00 | ug/Kg | 0.00 |
| 103) Tert Butyl Alcohol-d10 | 4.523 | 65 | 98434 | 250.00 | ug/Kg | 0.00 |
| System Monitoring Compounds | | | | | | |
| 35) Dibromofluoromethane | 6.056 | 113 | 284611 | 49.15 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 98.30% | | | |
| 44) 1,2-Dichloroethane-d4 | 6.616 | 65 | 293311 | 44.64 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 72 - 135 | | Recovery = 89.28% | | | |
| 55) Toluene-d8 | 8.453 | 98 | 970752 | 48.67 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 75 - 126 | | Recovery = 97.34% | | | |
| 77) 4-Bromofluorobenzene | 11.227 | 174 | 229872 | 52.48 | ug/Kg | 0.00 |
| Spiked Amount 50.000 | Range 71 - 133 | | Recovery = 104.96% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.229 | 85 | 651227 | 58.28 | ug/Kg | 97 |
| 3) Chloromethane | 2.418 | 50 | 643123 | 61.08 | ug/Kg | 98 |
| 4) Vinyl Chloride | 2.528 | 62 | 502734 | 57.04 | ug/Kg | 100 |
| 5) Bromomethane | 2.874 | 94 | 169888 | 45.49 | ug/Kg | 94 |
| 6) Chloroethane | 3.020 | 64 | 153642 | 49.21 | ug/Kg | 92 |
| 7) Trichlorofluoromethane | 3.172 | 101 | 541189 | 47.90 | ug/Kg | 94 |
| 8) Ethyl Ether | 3.440 | 59 | 237655 | 53.38 | ug/Kg | 95 |
| 9) 1,2-Dichlorotrifluoroe... | 3.671 | 67 | 394232 | 57.57 | ug/Kg | 87 |
| 10) 1,1-Dichloroethene | 3.665 | 61 | 549413 | 55.03 | ug/Kg | 96 |
| 11) Freon 113 | 3.726 | 101 | 373614 | 59.97 | ug/Kg | 92 |
| 12) Carbon Disulfide | 3.714 | 76 | 1066585 | 55.40 | ug/Kg | 92 |
| 13) Iodomethane | 3.829 | 142 | 596458 | 52.71 | ug/Kg | 91 |
| 14) Allyl chloride | 4.146 | 41 | 476699 | 54.52 | ug/Kg | 82 |
| 15) Methylene Chloride | 4.255 | 49 | 410363 | 54.85 | ug/Kg | 98 |
| 16) Acetone | 4.310 | 43 | 311496 | 237.67 | ug/Kg | 88 |
| 17) Methyl acetate | 4.420 | 43 | 688746 | 284.70 | ug/Kg | 97 |
| 18) trans-1,2-Dichloroethene | 4.420 | 61 | 448565 | 54.06 | ug/Kg | 97 |
| 19) Hexane | 4.480 | 56 | 262779 | 58.86 | ug/Kg | 90 |
| 20) Methyl Tert Butyl Ether | 4.511 | 73 | 836659 | 51.28 | ug/Kg | 94 |
| 21) Acetonitrile | 4.791 | 41 | 187066 | 509.07 | ug/Kg | 100 |
| 22) Di-isopropyl ether | 4.876 | 45 | 863971 | 52.55 | ug/Kg | 96 |
| 23) Chloroprene | 5.016 | 53 | 585680 | 49.62 | ug/Kg | 90 |
| 24) 1,1-Dichloroethane | 5.046 | 63 | 585664 | 53.69 | ug/Kg | 100 |
| 25) Acrylonitrile | 5.107 | 52 | 289477 | 243.04 | ug/Kg | 93 |
| 26) ETBE | 5.253 | 59 | 898640 | 52.30 | ug/Kg | 97 |
| 27) Vinyl acetate | 5.277 | 43 | 1589264 | 208.09 | ug/Kg | 95 |
| 28) cis-1,2-Dichloroethene | 5.594 | 96 | 398396 | 51.80 | ug/Kg | 98 |
| 29) 2,2-Dichloropropane | 5.709 | 77 | 392426 | 51.13 | ug/Kg | 96 |
| 30) Bromochloromethane | 5.807 | 128 | 170500 | 49.87 | ug/Kg# | 87 |
| 31) Cyclohexane | 5.807 | 84 | 541539 | 52.41 | ug/Kg | 93 |
| 32) Chloroform | 5.867 | 83 | 650183 | 53.43 | ug/Kg | 98 |
| 33) Ethyl acetate | 5.965 | 43 | 748128 | 246.23 | ug/Kg | 99 |
| 34) Tetrahydrofuran | 6.044 | 42 | 44175 | 50.70 | ug/Kg | 96 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115600.D
Acq On : 12 May 2016 8:58 pm
Operator : ericp
Sample : ECC4595-4 Inst : MSVOA5
Misc : ms33860,vc4595,5.00,,,5,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 13 07:40:33 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 36) Carbon Tetrachloride | 6.019 | 117 | 594917 | 49.32 | ug/Kg | 97 |
| 37) 1,1,1-Trichloroethane | 6.093 | 97 | 560146 | 49.50 | ug/Kg | 96 |
| 38) 2-Butanone | 6.184 | 43 | 411322 | 234.15 | ug/Kg | 95 |
| 39) 1,1-Dichloropropene | 6.214 | 75 | 450195 | 50.22 | ug/Kg | 92 |
| 40) Propionitrile | 6.506 | 54 | 250669 | 479.49 | ug/Kg | 80 |
| 41) Methacrylonitrile | 6.518 | 41 | 1030512 | 476.23 | ug/Kg | 94 |
| 42) Benzene | 6.476 | 78 | 1240473 | 51.36 | ug/Kg | 95 |
| 43) TAME | 6.561 | 73 | 764526 | 49.94 | ug/Kg | 95 |
| 45) 1,2-Dichloroethane | 6.683 | 62 | 408879 | 48.20 | ug/Kg | 94 |
| 46) Trichloroethene | 7.060 | 95 | 325249 | 49.18 | ug/Kg | 98 |
| 47) Methylcyclohexane | 7.048 | 83 | 583474 | 53.42 | ug/Kg | 96 |
| 48) Dibromomethane | 7.498 | 93 | 179853 | 47.46 | ug/Kg | 88 |
| 49) 1,2-Dichloropropane | 7.589 | 63 | 276606 | 49.58 | ug/Kg | 79 |
| 50) Bromodichloromethane | 7.644 | 83 | 400416 | 48.24 | ug/Kg | 97 |
| 51) Methyl methacrylate | 7.772 | 41 | 143788 | 51.82 | ug/Kg | 87 |
| 52) 2-Chloroethyl vinyl ether | 8.191 | 63 | 575274 | 263.42 | ug/Kg | 96 |
| 53) cis-1,3-Dichloropropene | 8.270 | 75 | 437613 | 56.41 | ug/Kg | 90 |
| 56) Toluene | 8.508 | 91 | 1196509 | 51.48 | ug/Kg | 94 |
| 57) 2-Nitropropane | 8.745 | 41 | 281227 | 237.83 | ug/Kg | 95 |
| 58) 4-Methyl-2-pentanone | 8.867 | 43 | 997790 | 250.59 | ug/Kg | 95 |
| 59) trans-1,3-Dichloropropene | 8.915 | 75 | 299308 | 52.27 | ug/Kg | 95 |
| 60) Tetrachloroethene | 8.891 | 166 | 290437 | 49.65 | ug/Kg | 97 |
| 61) Ethyl methacrylate | 9.043 | 69 | 221089 | 45.71 | ug/Kg | 93 |
| 62) 1,1,2-Trichloroethane | 9.080 | 83 | 184525 | 50.04 | ug/Kg | 91 |
| 63) Dibromochloromethane | 9.262 | 129 | 266066 | 52.12 | ug/Kg | 100 |
| 64) 1,3-Dichloropropane | 9.359 | 76 | 358073 | 53.56 | ug/Kg | 94 |
| 65) 1,2-Dibromoethane | 9.518 | 107 | 209421 | 53.54 | ug/Kg | 97 |
| 66) 2-hexanone | 9.694 | 43 | 552679 | 235.34 | ug/Kg | 96 |
| 67) 1-Chlorohexane | 9.974 | 91 | 369353 | 50.27 | ug/Kg | 95 |
| 68) Ethylbenzene | 10.035 | 91 | 1234392 | 50.66 | ug/Kg | 98 |
| 69) Chlorobenzene | 10.023 | 112 | 688592 | 50.18 | ug/Kg | 97 |
| 70) 1,1,1,2-Tetrachloroethane | 10.083 | 131 | 320580 | 50.66 | ug/Kg | 90 |
| 71) m,p-Xylene | 10.175 | 91 | 1845198 | 103.85 | ug/Kg | 96 |
| 72) o-Xylene | 10.613 | 91 | 1141375 | 49.45 | ug/Kg | 95 |
| 73) Styrene | 10.667 | 104 | 675032 | 49.94 | ug/Kg | 96 |
| 74) Bromoform | 10.716 | 173 | 123867 | 49.83 | ug/Kg | 89 |
| 75) Isopropylbenzene | 10.923 | 105 | 1354016 | 50.20 | ug/Kg | 99 |
| 78) cis-1,4-Dichloro-2-butene | 11.282 | 53 | 49830 | 44.96 | ug/Kg# | 76 |
| 79) n-Propylbenzene | 11.343 | 91 | 1368980 | 45.49 | ug/Kg | 99 |
| 80) Bromobenzene | 11.343 | 156 | 272466 | 50.95 | ug/Kg | 92 |
| 81) 1,1,2,2-Tetrachloroethane | 11.422 | 83 | 300124 | 49.68 | ug/Kg | 98 |
| 82) 1,3,5-Trimethylbenzene | 11.531 | 105 | 1093700 | 45.86 | ug/Kg | 99 |
| 83) 2-Chlorotoluene | 11.519 | 91 | 1013955 | 50.08 | ug/Kg | 98 |
| 84) trans-1,4-Dichloro-2-B... | 11.598 | 53 | 51619 | 53.24 | ug/Kg | 85 |
| 85) 1,2,3-Trichloropropane | 11.574 | 110 | 76352 | 48.09 | ug/Kg | 95 |
| 86) Cyclohexanone | 11.629 | 55 | 45660 | 274.38 | ug/Kg | 99 |
| 87) 4-Chlorotoluene | 11.689 | 91 | 816874 | 49.16 | ug/Kg | 98 |
| 88) tert-Butylbenzene | 11.866 | 91 | 766463 | 46.85 | ug/Kg | 93 |
| 89) 1,2,4-Trimethylbenzene | 11.939 | 105 | 1032038 | 43.65 | ug/Kg | 97 |
| 90) Pentachloroethane | 11.908 | 167 | 171533 | 47.35 | ug/Kg | 92 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115600.D
Acq On : 12 May 2016 8:58 pm
Operator : ericp
Sample : ECC4595-4 Inst : MSVOA5
Misc : ms33860,vc4595,5.00,,,5,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 13 07:40:33 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) sec-Butylbenzene | 12.048 | 105 | 1437653 | 49.21 | ug/Kg | 97 |
| 92) 4-Isopropyltoluene | 12.188 | 119 | 1096656 | 43.39 | ug/Kg | 99 |
| 93) 1,3-Dichlorobenzene | 12.298 | 146 | 489171 | 46.26 | ug/Kg | 99 |
| 94) 1,4-Dichlorobenzene | 12.389 | 146 | 460288 | 45.15 | ug/Kg | 96 |
| 95) n-Butylbenzene | 12.626 | 92 | 555957 | 40.52 | ug/Kg | 98 |
| 96) Benzyl Chloride | 12.638 | 126 | 93633 | 45.52 | ug/Kg# | 79 |
| 97) 1,2-Dichlorobenzene | 12.833 | 146 | 535850 | 49.67 | ug/Kg | 99 |
| 98) 1,2-Dibromo-3-Chloropr... | 13.642 | 75 | 64326 | 45.68 | ug/Kg | 88 |
| 99) Hexachlorobutadiene | 14.220 | 225 | 193435 | 40.63 | ug/Kg | 89 |
| 100) 1,2,4-Trichlorobenzene | 14.263 | 180 | 312398 | 40.44 | ug/Kg | 96 |
| 101) Naphthalene | 14.555 | 128 | 990948 | 49.28 | ug/Kg | 99 |
| 102) 1,2,3-Trichlorobenzene | 14.713 | 180 | 359970 | 45.43 | ug/Kg | 97 |
| 104) Ethanol | 3.598 | 45 | 30702m | 1044.15 | ug/Kg | |
| 105) Acrolein | 4.012 | 56 | 168994 | 273.76 | ug/Kg | 94 |
| 106) Tert butyl alcohol | 4.590 | 59 | 257553 | 514.43 | ug/Kg | 99 |
| 107) Isobutyl alcohol | 6.646 | 42 | 93083 | 970.01 | ug/Kg | 92 |
| 108) Tert Amyl Alcohol | 6.750 | 59 | 197968 | 527.27 | ug/Kg | 99 |
| 109) 1,4-Dioxane | 7.845 | 88 | 47496 | 1147.05 | ug/Kg | 97 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed



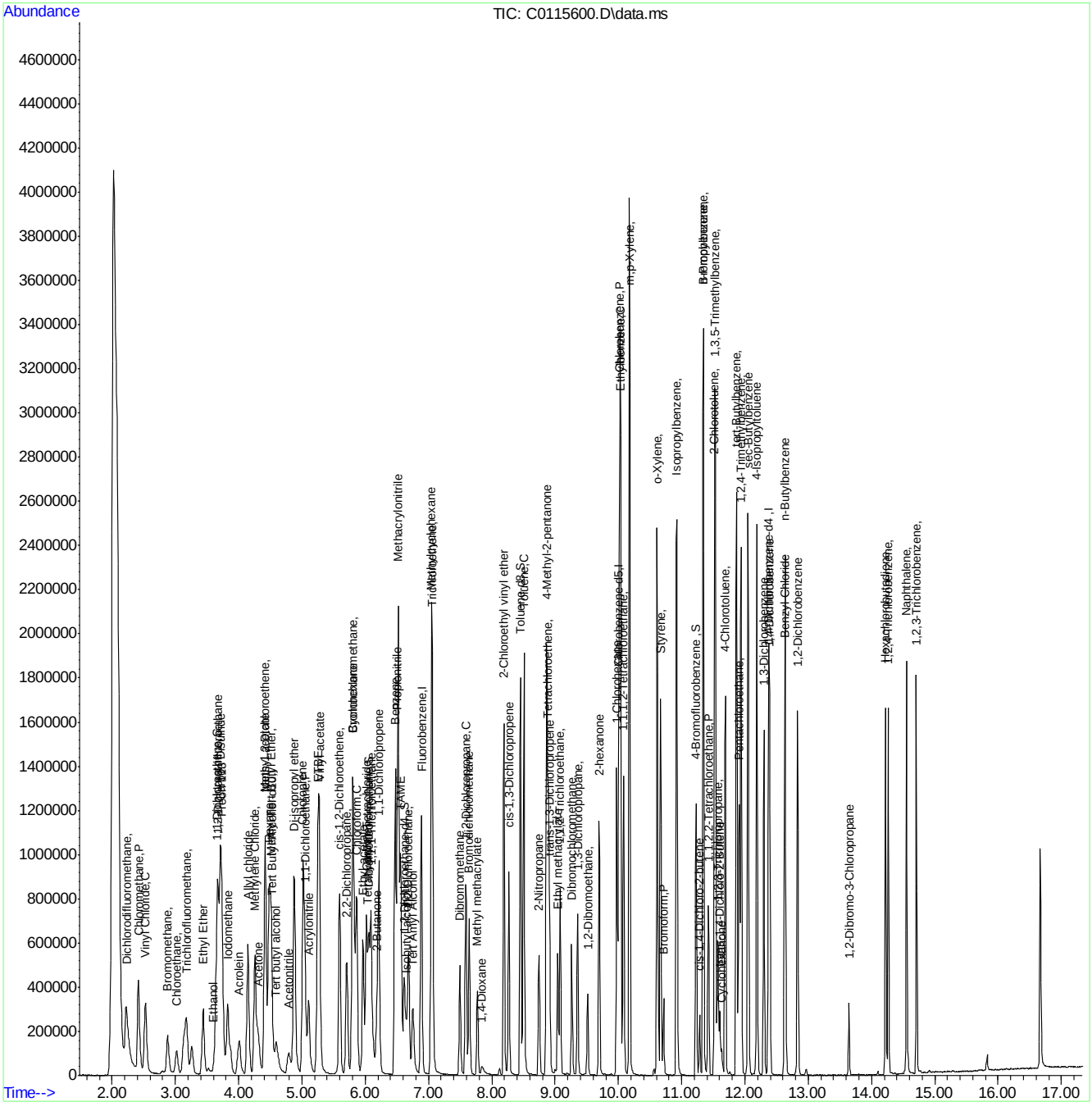


SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115600.D
Acq On : 12 May 2016 8:58 pm
Operator : ericp
Sample : ECC4595-4 Inst : MSVOA5
Misc : ms33860,vc4595,5.00,,,5,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 13 07:40:33 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration




051216APP9-C-Soil.m Fri May 13 07:51:39 2016 Page: 4





SGS ACCUTEST FA33878

# Manual Integration Approval Summary



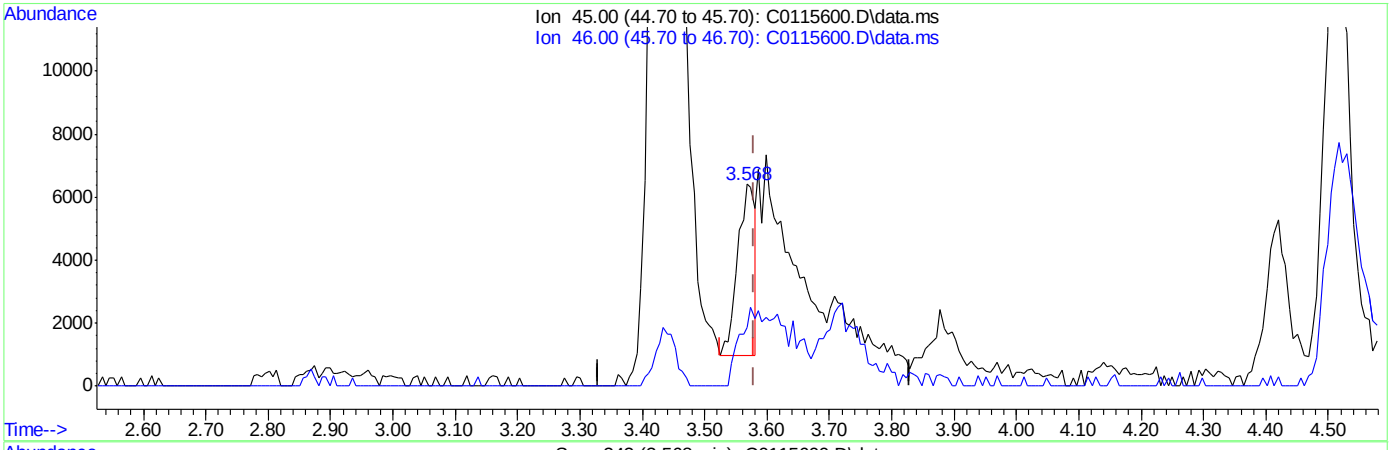
| | | | |
|---|---|---|---|
| **Sample Number:** | VC4595-ECC4595 | **Method:** | SW846 8260B |
| **Lab FileID:** | C0115600.D | **Analyst approved:** | 05/13/16 08:01 Eric Parrish |
| **Injection Time:** | 05/12/16 20:58 | **Supervisor approved:** | 05/13/16 11:58 Melissa Mangual |

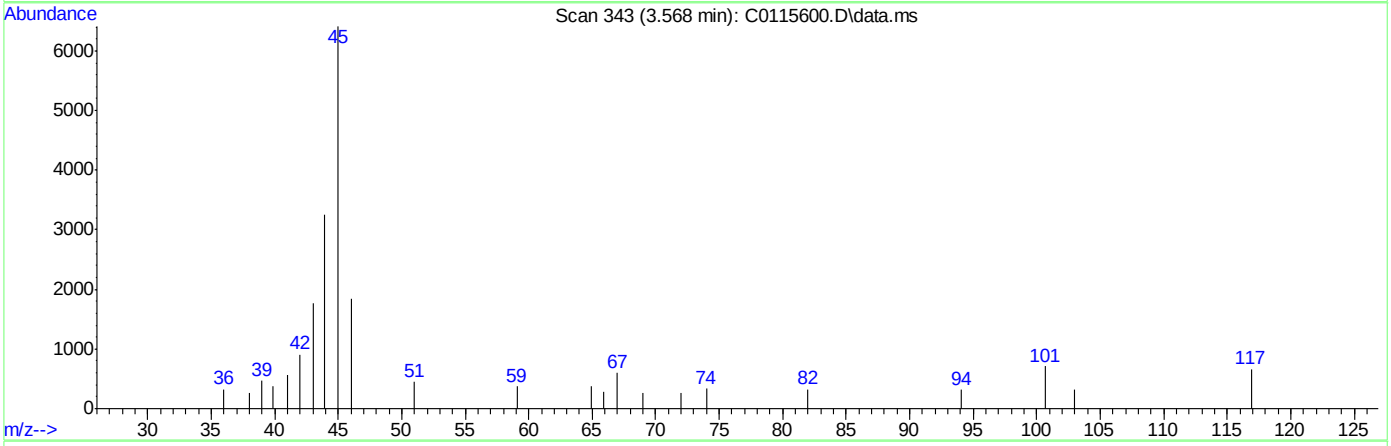
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Ethyl Alcohol | 64-17-5 | | 3.60 | Split peak |

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115600.D
Acq On : 12 May 2016 8:58 pm
Operator : ericp
Sample : ECC4595-4 Inst : MSVOA5
Misc : ms33860,vc4595,5.00,,,5,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 13 07:40:04 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration




TIC: C0115600.D\data.ms

(104) Ethanol

3.568min (-0.012) 353.49ug/Kg

response 10394

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 33.97 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



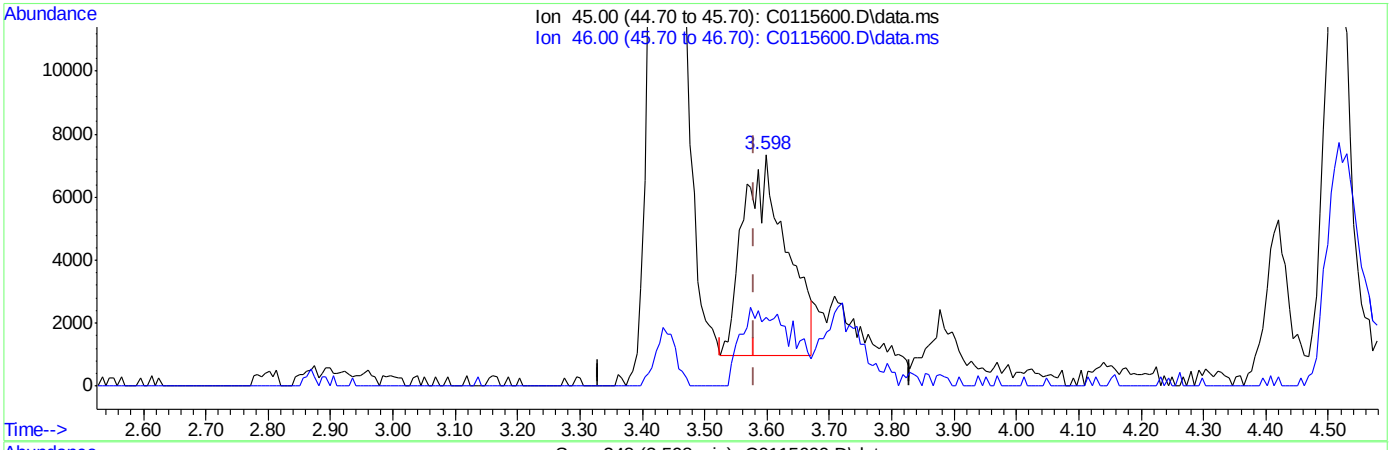


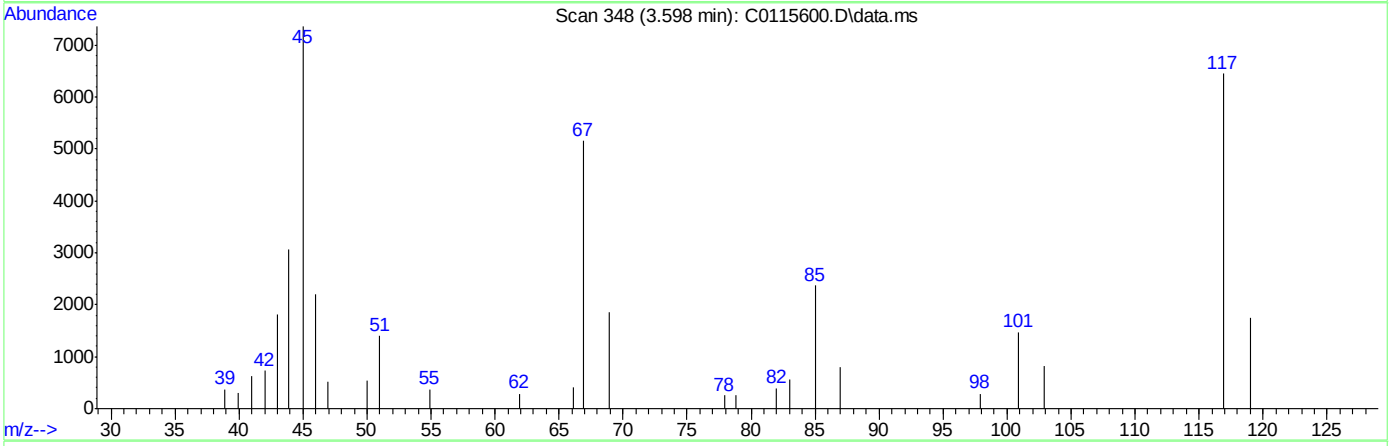
SGS ACCUTEST FA33878

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115600.D
Acq On : 12 May 2016 8:58 pm
Operator : ericp
Sample : ECC4595-4 Inst : MSVOA5
Misc : ms33860,vc4595,5.00,,,5,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 13 07:40:04 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration




TIC: C0115600.D\data.ms

(104) Ethanol

3.598min (+0.018) 1044.15ug/Kg m

response 30702

| Ion | Exp% | Act% |
|---|---|---|
| 45.00 | 100 | 100 |
| 46.00 | 30.00 | 29.91 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976447.D
Acq On : 12 May 2016 10:20 am
Operator : darshnap
Sample : ic5295-1 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 14:49:56 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1220480 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 931486 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.207 | 152 | 506821 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.292 | 65 | 78596 | 250.00 | ug/L | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 36) Dibromofluoromethane | 6.922 | 113 | 318172 | 51.01 | ug/L | -0.01 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 102.02% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 376867 | 50.02 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 100.04% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1225922 | 49.73 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 99.46% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 468698 | 48.16 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 96.32% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.676 | 85 | 3524 | 0.43 | ug/L # | 43 |
| 3) Chloromethane | 2.877 | 50 | 8426 | 1.05 | ug/L | 98 |
| 4) Vinyl Chloride | 3.011 | 62 | 7927 | 0.95 | ug/L | 83 |
| 6) Bromomethane | 3.455 | 94 | 9395 | 1.68 | ug/L | 77 |
| 7) Chloroethane | 3.607 | 64 | 4756 | 1.01 | ug/L | 88 |
| 8) Trichlorofluoromethane | 3.826 | 101 | 8379m | 0.78 | ug/L | |
| 9) Ethyl Ether | 4.124 | 59 | 6220 | 1.23 | ug/L | 87 |
| 10) 1,2-Dichlorotrifluoroe... | 4.343 | 67 | 8753 | 1.22 | ug/L # | 80 |
| 11) 1,1-Dichloroethene | 4.398 | 61 | 11746 | 1.30 | ug/L | 95 |
| 12) Freon 113 | 4.477 | 101 | 6252 | 1.03 | ug/L | 95 |
| 13) Carbon Disulfide | 4.471 | 76 | 27905 | 1.45 | ug/L | 93 |
| 14) Iodomethane | 4.586 | 142 | 14675 | 1.48 | ug/L | 91 |
| 15) Allyl chloride | 4.921 | 41 | 10457 | 1.23 | ug/L | 87 |
| 16) Methylene Chloride | 5.049 | 49 | 28024 | 3.37 | ug/L | 98 |
| 17) Acetone | 5.079 | 58 | 2129 | 6.23 | ug/L # | 70 |
| 18) Methyl acetate | 5.219 | 74 | 3393 | 4.70 | ug/L # | 52 |
| 19) trans-1,2-Dichloroethene | 5.225 | 61 | 11557 | 1.31 | ug/L | 93 |
| 20) Hexane | 5.298 | 56 | 6249 | 1.14 | ug/L # | 79 |
| 21) Methyl Tert Butyl Ether | 5.334 | 73 | 20511 | 1.25 | ug/L | 79 |
| 22) Acetonitrile | 5.614 | 40 | 2674 | 10.39 | ug/L # | 86 |
| 23) Di-isopropyl ether | 5.718 | 45 | 23578 | 1.24 | ug/L | 94 |
| 24) Chloroprene | 5.876 | 53 | 10397 | 1.11 | ug/L | 92 |
| 25) 1,1-Dichloroethane | 5.888 | 63 | 15075 | 1.32 | ug/L | 85 |
| 26) Acrylonitrile | 5.937 | 53 | 6331m | 4.00 | ug/L | |
| 27) ETBE | 6.107 | 59 | 21785 | 1.15 | ug/L | 86 |
| 28) Vinyl acetate | 6.113 | 43 | 41381 | 4.36 | ug/L | 89 |
| 29) cis-1,2-Dichloroethene | 6.472 | 96 | 9418 | 1.29 | ug/L | 85 |
| 30) 2,2-Dichloropropane | 6.606 | 77 | 10514 | 1.23 | ug/L | 84 |
| 31) Bromochloromethane | 6.691 | 128 | 4378 | 1.30 | ug/L | 95 |
| 32) Cyclohexane | 6.734 | 56 | 9278 | 0.91 | ug/L | 90 |
| 33) Chloroform | 6.734 | 83 | 17113 | 1.37 | ug/L | 98 |
| 34) Ethyl acetate | 6.819 | 43 | 17301 | 4.56 | ug/L | 96 |
| 35) Tetrahydrofuran | 6.922 | 42 | 1401 | 1.29 | ug/L # | 56 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976447.D
Acq On : 12 May 2016 10:20 am
Operator : darshnap
Sample : ic5295-1 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 14:49:56 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 37) | Carbon Tetrachloride | 6.928 | 117 | 10840 | 1.25 | ug/L | # | 70 |
| 38) | 1,1,1-Trichloroethane | 6.995 | 97 | 12325 | 1.18 | ug/L | | 92 |
| 39) | 2-Butanone | 7.032 | 43 | 9966 | 6.00 | ug/L | | 96 |
| 40) | 1,1-Dichloropropene | 7.099 | 75 | 9482 | 1.09 | ug/L | | 89 |
| 41) | tert-Butyl Formate | 7.184 | 59 | 40108 | 10.47 | ug/L | # | 62 |
| 42) | Propionitrile | 7.342 | 54 | 5869 | 10.17 | ug/L | # | 63 |
| 43) | Methacrylonitrile | 7.360 | 41 | 26402 | 9.65 | ug/L | | 86 |
| 44) | Benzene | 7.354 | 78 | 34358 | 1.30 | ug/L | | 91 |
| 45) | TAME | 7.427 | 73 | 21506 | 1.28 | ug/L | | 96 |
| 47) | 1,2-Dichloroethane | 7.549 | 62 | 12505 | 1.37 | ug/L | | 91 |
| 48) | Trichloroethene | 7.938 | 95 | 9147 | 1.31 | ug/L | | 93 |
| 49) | Methylcyclohexane | 7.950 | 83 | 10886 | 0.99 | ug/L | | 86 |
| 50) | Dibromomethane | 8.364 | 93 | 4508 | 1.24 | ug/L | | 86 |
| 51) | 1,2-Dichloropropane | 8.449 | 63 | 8437 | 1.30 | ug/L | | 95 |
| 52) | Bromodichloromethane | 8.498 | 83 | 11616 | 1.39 | ug/L | | 97 |
| 53) | Methyl methacrylate | 8.614 | 41 | 1947 | 0.56 | ug/L | # | 72 |
| 54) | 2-Chloroethyl vinyl ether | 9.015 | 63 | 12060 | 3.42 | ug/L | | 97 |
| 55) | cis-1,3-Dichloropropene | 9.112 | 75 | 11141 | 1.18 | ug/L | | 92 |
| 58) | Toluene | 9.350 | 91 | 39216 | 1.33 | ug/L | | 89 |
| 59) | 2-Nitropropane | 9.563 | 41 | 5959 | 5.25 | ug/L | # | 77 |
| 60) | 4-Methyl-2-pentanone | 9.678 | 43 | 25427 | 6.26 | ug/L | | 94 |
| 61) | trans-1,3-Dichloropropene | 9.739 | 75 | 8906 | 1.11 | ug/L | | 96 |
| 62) | Tetrachloroethene | 9.757 | 166 | 8127 | 1.03 | ug/L | | 90 |
| 63) | Ethyl methacrylate | 9.848 | 69 | 4276 | 0.61 | ug/L | # | 79 |
| 64) | 1,1,2-Trichloroethane | 9.903 | 83 | 5996 | 1.31 | ug/L | | 82 |
| 65) | Dibromochloromethane | 10.098 | 129 | 7335 | 1.25 | ug/L | | 96 |
| 66) | 1,3-Dichloropropane | 10.183 | 76 | 12134 | 1.30 | ug/L | | 97 |
| 67) | 1,2-Dibromoethane | 10.366 | 107 | 5995 | 1.20 | ug/L | | 78 |
| 68) | 2-hexanone | 10.499 | 43 | 15188 | 5.50 | ug/L | | 88 |
| 69) | 1-Chlorohexane | 10.798 | 91 | 7297 | 0.85 | ug/L | # | 74 |
| 70) | Ethylbenzene | 10.864 | 91 | 44101 | 1.28 | ug/L | | 98 |
| 71) | Chlorobenzene | 10.864 | 112 | 26522 | 1.41 | ug/L | | 93 |
| 72) | 1,1,1,2-Tetrachloroethane | 10.913 | 131 | 8215 | 1.38 | ug/L | | 78 |
| 73) | m,p-Xylene | 10.998 | 91 | 61575 | 2.27 | ug/L | | 97 |
| 74) | o-Xylene | 11.436 | 91 | 28062 | 1.15 | ug/L | | 91 |
| 75) | Styrene | 11.491 | 104 | 19148 | 1.06 | ug/L | | 95 |
| 76) | Bromoform | 11.546 | 173 | 4545 | 1.42 | ug/L | | 95 |
| 77) | Isopropylbenzene | 11.747 | 105 | 32392 | 1.04 | ug/L | | 93 |
| 80) | cis-1,4-Dichloro-2-butene | 12.099 | 53 | 1572 | 1.18 | ug/L | | 84 |
| 81) | n-Propylbenzene | 12.166 | 91 | 46692 | 1.32 | ug/L | | 100 |
| 82) | Bromobenzene | 12.185 | 156 | 11469 | 1.40 | ug/L | | 88 |
| 83) | 1,1,2,2-Tetrachloroethane | 12.221 | 83 | 8670 | 1.44 | ug/L | | 92 |
| 84) | 1,3,5-Trimethylbenzene | 12.343 | 105 | 31821 | 1.21 | ug/L | | 95 |
| 85) | 2-Chlorotoluene | 12.355 | 91 | 34501 | 1.35 | ug/L | | 97 |
| 86) | trans-1,4-Dichloro-2-B... | 12.410 | 53 | 1304 | 1.06 | ug/L | # | 42 |
| 87) | 1,2,3-Trichloropropane | 12.385 | 110 | 2224 | 1.35 | ug/L | | 79 |
| 88) | Cyclohexanone | 12.470 | 55 | 391 | 3.88 | ug/L | # | 30 |
| 89) | 4-Chlorotoluene | 12.519 | 91 | 30168 | 1.28 | ug/L | | 98 |
| 90) | a-Methyl Styrene | 12.610 | 118 | 12199 | 1.66 | ug/L | # | 89 |
| 91) | tert-Butylbenzene | 12.683 | 91 | 18906 | 1.22 | ug/L | | 96 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976447.D
Acq On : 12 May 2016 10:20 am
Operator : darshnap
Sample : ic5295-1 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 14:49:56 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 92) 1,2,4-Trimethylbenzene | 12.756 | 105 | 31971 | 1.21 | ug/L | 96 |
| 93) Pentachloroethane | 12.738 | 167 | 6190 | 1.72 | ug/L # | 81 |
| 94) sec-Butylbenzene | 12.872 | 105 | 38289 | 1.22 | ug/L | 98 |
| 95) 4-Isopropyltoluene | 13.000 | 119 | 28907 | 1.11 | ug/L | 96 |
| 96) 1,3-Dichlorobenzene | 13.140 | 146 | 20532 | 1.46 | ug/L | 94 |
| 97) 1,4-Dichlorobenzene | 13.225 | 146 | 23681 | 1.59 | ug/L | 88 |
| 98) n-Butylbenzene | 13.438 | 92 | 16805 | 1.12 | ug/L | 91 |
| 99) Benzyl Chloride | 13.450 | 126 | 2068 | 1.24 | ug/L # | 89 |
| 100) 1,2-Dichlorobenzene | 13.645 | 146 | 19524 | 1.53 | ug/L | 93 |
| 101) 1,2-Dibromo-3-Chloropr... | 14.393 | 75 | 935 | 1.85 | ug/L # | 72 |
| 102) Hexachlorobutadiene | 14.928 | 225 | 9860 | 2.44 | ug/L | 92 |
| 103) 1,2,4-Trichlorobenzene | 14.977 | 180 | 13085 | 2.97 | ug/L | 93 |
| 104) Naphthalene | 15.263 | 128 | 13542 | 2.66 | ug/L | 92 |
| 105) 1,2,3-Trichlorobenzene | 15.433 | 180 | 11557 | 4.30 | ug/L | 95 |
| 108) acrolein | 4.769 | 56 | 4663 | 5.38 | ug/L | 99 |
| 109) Tert Butyl Alcohol | 5.371 | 59 | 5423 | 14.85 | ug/L | 76 |
| 110) tert Amyl alcohol | 7.573 | 59 | 2714 | 9.97 | ug/L # | 64 |
| 111) Isobutyl alcohol | 7.445 | 42 | 2128 | 14.19 | ug/L # | 66 |
| 112) 1,4-Dioxane | 8.680 | 88 | 737 | 21.18 | ug/L | 83 |
| 113) 3,3-Dimethyl-1-butanol | 10.439 | 57 | 12850 | 43.34 | ug/L | 84 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

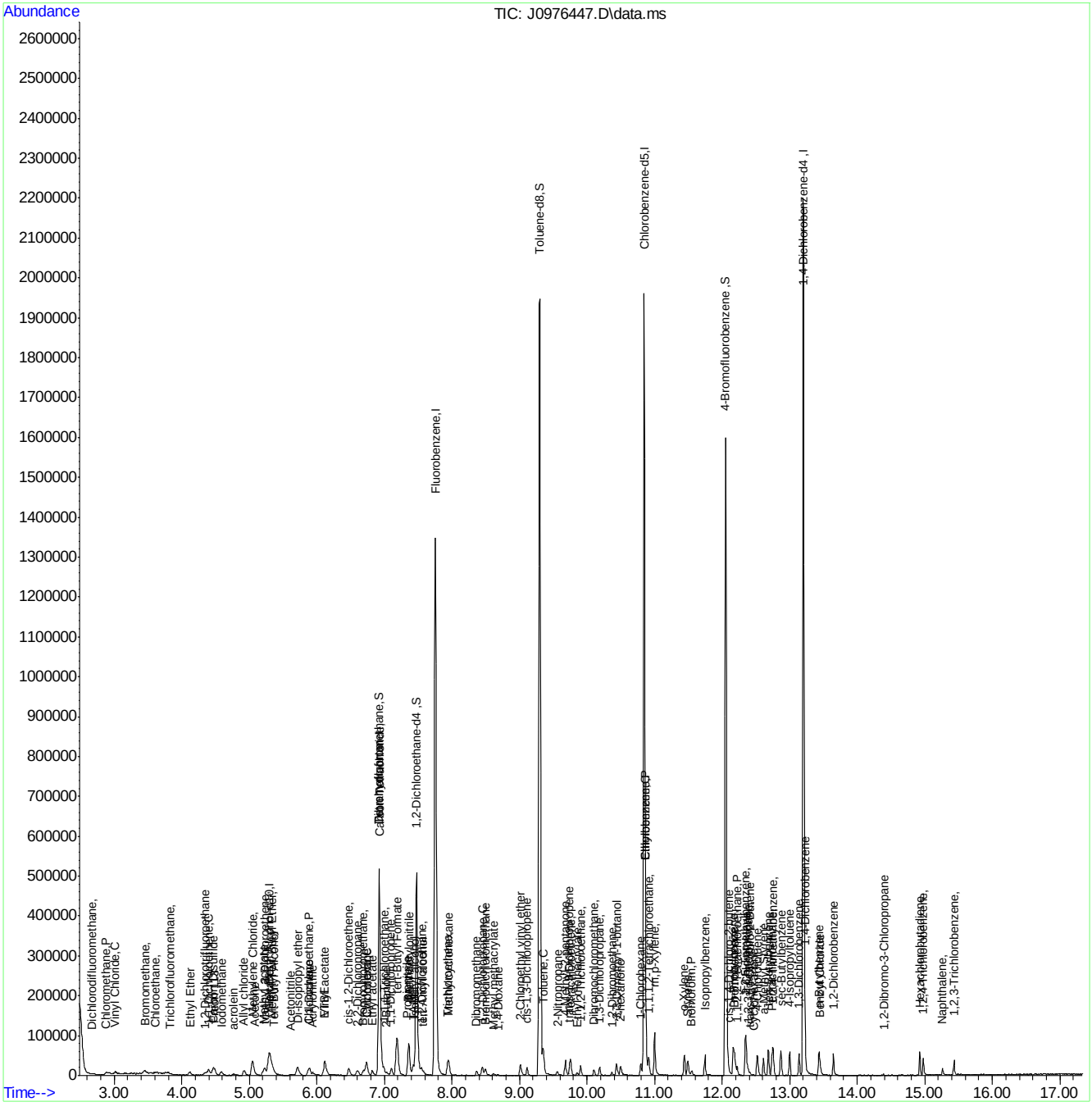



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976447.D
Acq On : 12 May 2016 10:20 am
Operator : darshnap
Sample : ic5295-1 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 14:49:56 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration










SGS ACCUTEST FA33878

# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | VJ5295-IC5295 | **Method:** | SW846 8260B |
| **Lab FileID:** | J0976447.D | **Analyst approved:** | 05/13/16 07:53 Darshna Patel |
| **Injection Time:** | 05/12/16 10:20 | **Supervisor approved:** | 05/13/16 11:32 Melissa Mangual |

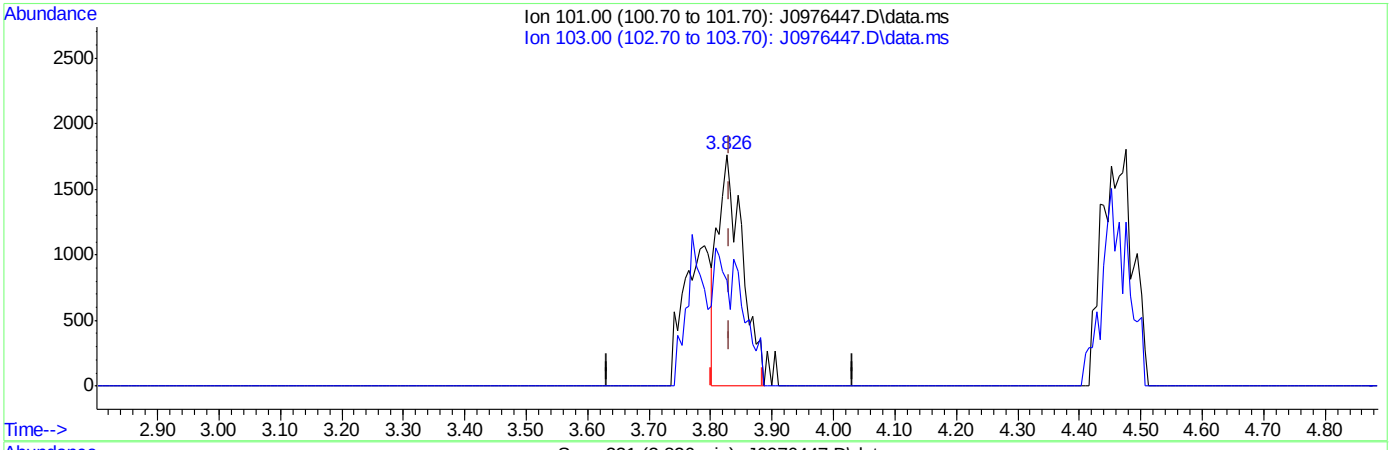
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichlorofluoromethane | 75-69-4 | | 3.83 | Split peak |
| Acrylonitrile | 107-13-1 | | 5.94 | Poor instrument integration |

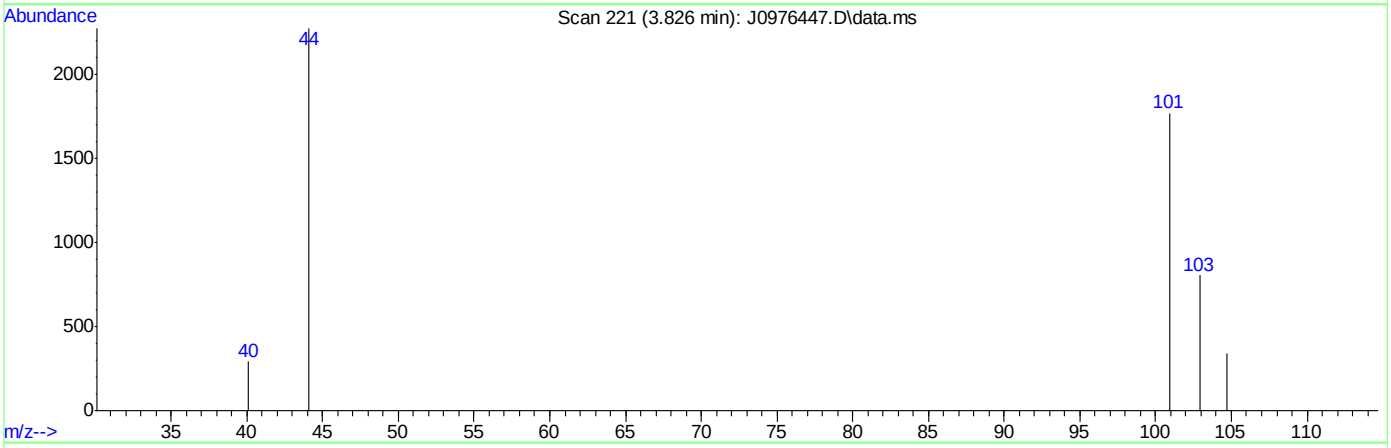
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976447.D
Acq On : 12 May 2016 10:20 am
Operator : darshnap
Sample : ic5295-1 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 14:31:05 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976447.D\data.ms

(8) Trichlorofluoromethane ( )

3.826min (-0.006) 0.45ug/L

response 4845

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 63.50 | 45.50 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



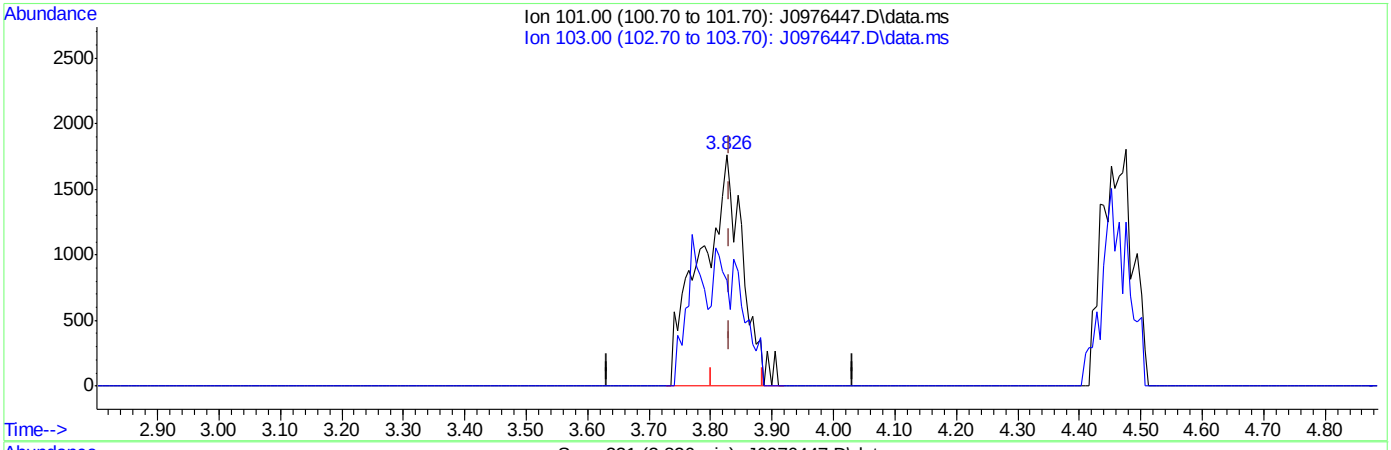
SGS ACCUTEST FA33878

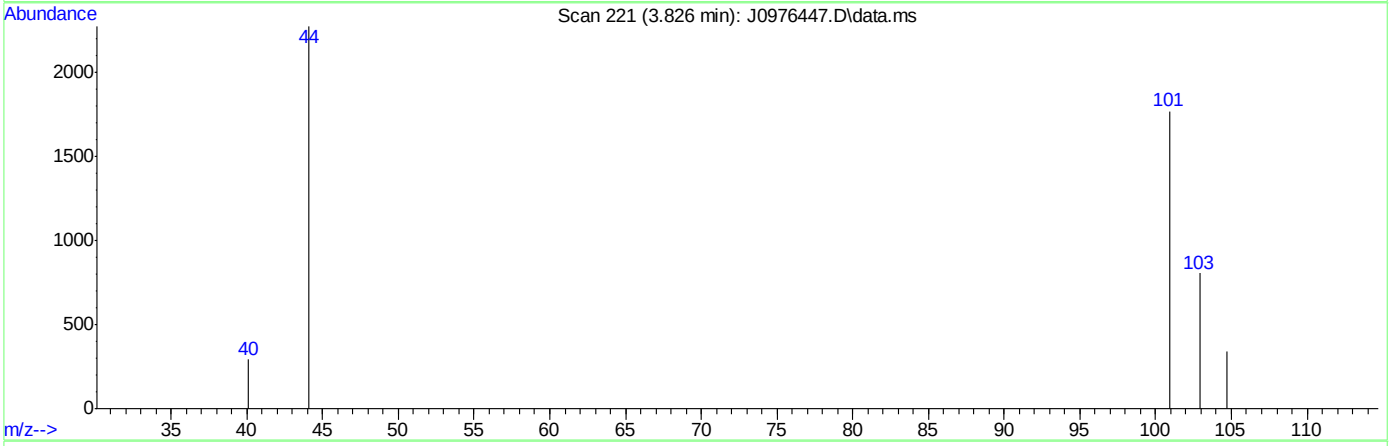
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976447.D
Acq On : 12 May 2016 10:20 am
Operator : darshnap
Sample : ic5295-1 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 14:31:05 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976447.D\data.ms

(8) Trichlorofluoromethane ( )

3.826min (-0.006) 0.78ug/L m

response 8379

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 63.50 | 45.50 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



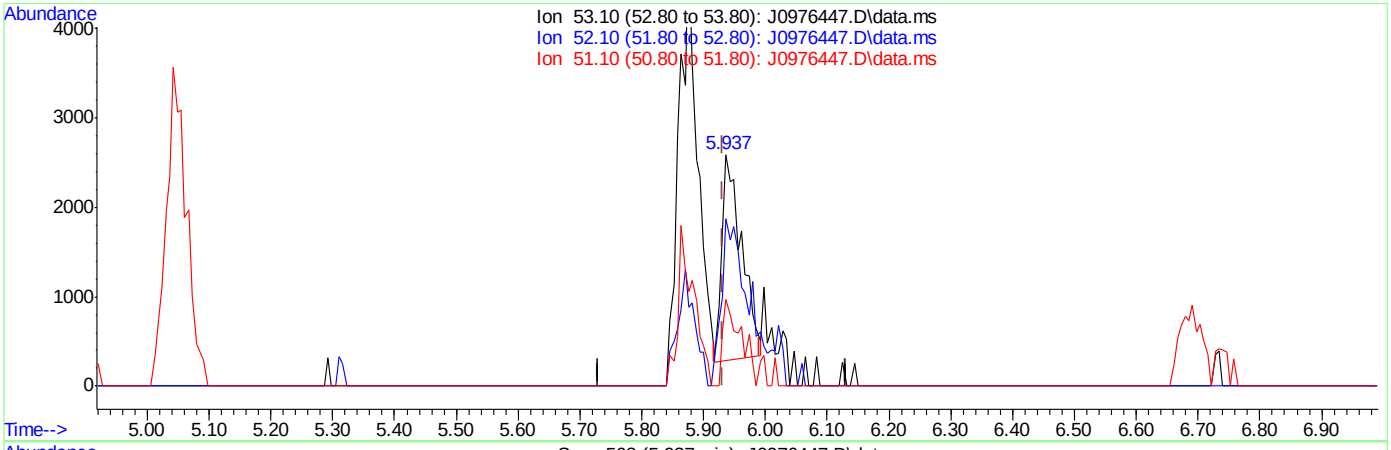
SGS ACCUTEST FA33878

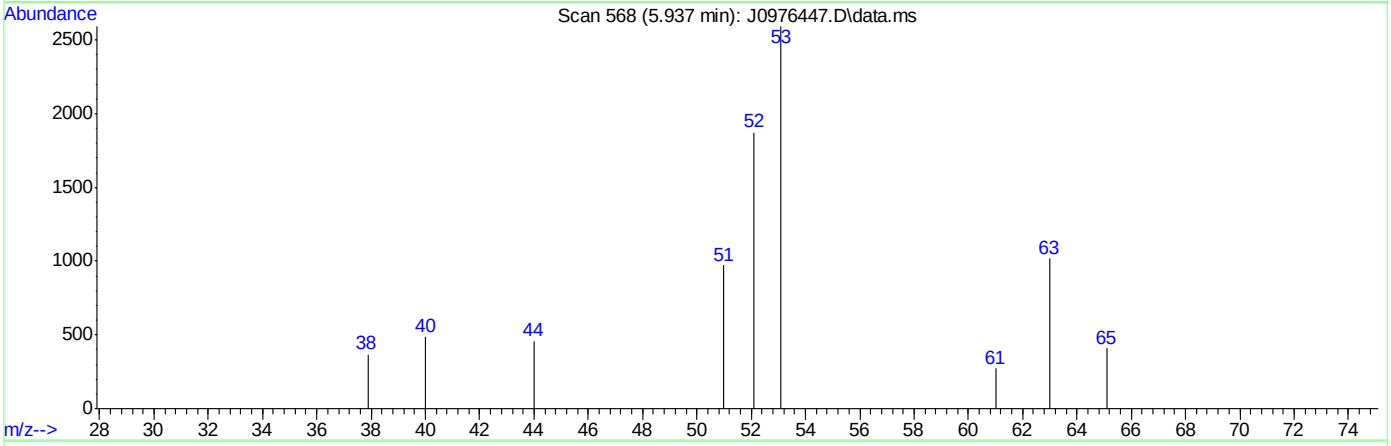
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976447.D
Acq On : 12 May 2016 10:20 am
Operator : darshnap
Sample : ic5295-1 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 14:31:05 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976447.D\data.ms

(26) Acrylonitrile

5.937min (+0.006) 3.20ug/L

response 5056

| Ion | Exp% | Act% |
|---|---|---|
| 53.10 | 100 | 100 |
| 52.10 | 82.70 | 68.32 |
| 51.10 | 36.10 | 43.08 |
| 0.00 | 0.00 | 0.00 |



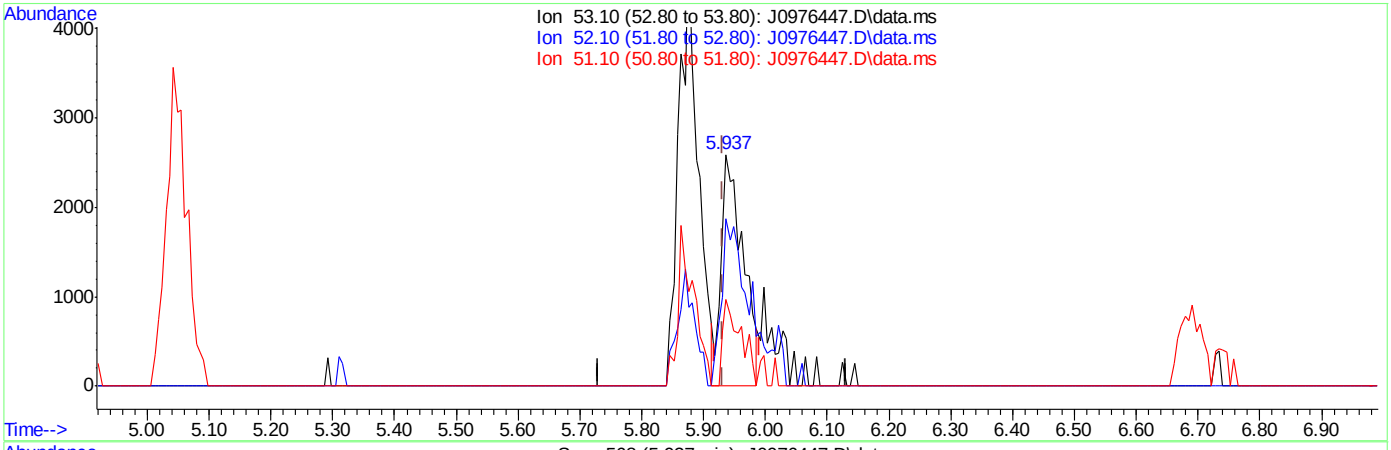
SGS ACCUTEST FA33878

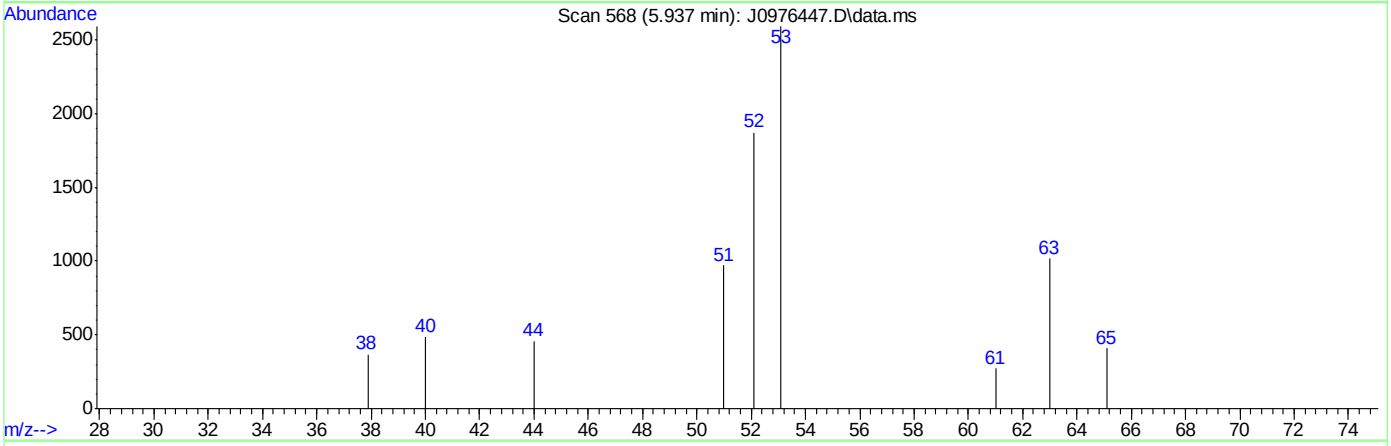
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976447.D
Acq On : 12 May 2016 10:20 am
Operator : darshnap
Sample : ic5295-1 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 12 14:31:05 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976447.D\data.ms

(26) Acrylonitrile

5.937min (+0.006) 4.00ug/L m

response 6331

| Ion | Exp% | Act% |
|---|---|---|
| 53.10 | 100 | 100 |
| 52.10 | 82.70 | 72.22 |
| 51.10 | 36.10 | 37.46 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:50:22 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1198921 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 917884 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.201 | 152 | 508006 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.298 | 65 | 75916 | 250.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 36) Dibromofluoromethane | 6.922 | 113 | 311191 | 50.79 | ug/L | -0.01 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 101.58% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 367468 | 49.65 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 99.30% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1216925 | 50.10 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 100.20% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 466962 | 47.87 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 95.74% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.706 | 85 | 19655 | 2.45 | ug/L | 88 |
| 3) Chloromethane | 2.877 | 50 | 28359 | 3.59 | ug/L | 96 |
| 4) Vinyl Chloride | 3.017 | 62 | 29279 | 3.56 | ug/L | 94 |
| 6) Bromomethane | 3.443 | 94 | 27485 | 5.07 | ug/L | 99 |
| 7) Chloroethane | 3.607 | 64 | 16827 | 3.68 | ug/L | 91 |
| 8) Trichlorofluoromethane | 3.838 | 101 | 36438m | 3.46 | ug/L | |
| 9) Ethyl Ether | 4.124 | 59 | 28715 | 5.77 | ug/L | 95 |
| 10) 1,2-Dichlorotrifluoroe... | 4.355 | 67 | 40280 | 5.72 | ug/L | 98 |
| 11) 1,1-Dichloroethene | 4.392 | 61 | 53960 | 6.07 | ug/L | 89 |
| 12) Freon 113 | 4.465 | 101 | 37702 | 6.35 | ug/L | 93 |
| 13) Carbon Disulfide | 4.477 | 76 | 115423 | 6.12 | ug/L | 96 |
| 14) Iodomethane | 4.586 | 142 | 60486 | 6.22 | ug/L | 96 |
| 15) Allyl chloride | 4.927 | 41 | 30484 | 3.64 | ug/L | 92 |
| 16) Methylene Chloride | 5.049 | 49 | 65702 | 8.07 | ug/L | 92 |
| 17) Acetone | 5.079 | 58 | 10015 | 29.78 | ug/L # | 77 |
| 18) Methyl acetate | 5.189 | 74 | 19844 | 27.99 | ug/L # | 90 |
| 19) trans-1,2-Dichloroethene | 5.231 | 61 | 47719 | 5.51 | ug/L | 95 |
| 20) Hexane | 5.298 | 56 | 31932 | 5.93 | ug/L # | 89 |
| 21) Methyl Tert Butyl Ether | 5.329 | 73 | 100588 | 6.22 | ug/L | 88 |
| 22) Acetonitrile | 5.596 | 40 | 8823 | 34.98 | ug/L # | 87 |
| 23) Di-isopropyl ether | 5.712 | 45 | 106623 | 5.72 | ug/L | 95 |
| 24) Chloroprene | 5.870 | 53 | 28867 | 3.14 | ug/L | 90 |
| 25) 1,1-Dichloroethane | 5.900 | 63 | 63884 | 5.70 | ug/L | 96 |
| 26) Acrylonitrile | 5.937 | 53 | 37328 | 24.02 | ug/L | 92 |
| 27) ETBE | 6.113 | 59 | 112065 | 6.01 | ug/L | 95 |
| 28) Vinyl acetate | 6.113 | 43 | 236117 | 25.31 | ug/L | 93 |
| 29) cis-1,2-Dichloroethene | 6.478 | 96 | 40601 | 5.68 | ug/L | 93 |
| 30) 2,2-Dichloropropane | 6.606 | 77 | 49975 | 5.94 | ug/L | 99 |
| 31) Bromochloromethane | 6.685 | 128 | 19750 | 5.95 | ug/L | 95 |
| 32) Cyclohexane | 6.734 | 56 | 52123 | 5.21 | ug/L | 92 |
| 33) Chloroform | 6.740 | 83 | 75083 | 6.13 | ug/L | 97 |
| 34) Ethyl acetate | 6.813 | 43 | 84425 | 22.66 | ug/L | 95 |
| 35) Tetrahydrofuran | 6.916 | 42 | 6777 | 6.34 | ug/L # | 69 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:50:22 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 37) Carbon Tetrachloride | 6.928 | 117 | 51124m | 6.02 ug/L | |
| 38) 1,1,1-Trichloroethane | 6.989 | 97 | 58824 | 5.71 ug/L | 94 |
| 39) 2-Butanone | 7.032 | 43 | 41839 | 25.63 ug/L | 95 |
| 40) 1,1-Dichloropropene | 7.105 | 75 | 44271 | 5.19 ug/L | 97 |
| 41) tert-Butyl Formate | 7.184 | 59 | 208675 | 55.41 ug/L # | 86 |
| 42) Propionitrile | 7.336 | 54 | 23793 | 41.97 ug/L # | 70 |
| 43) Methacrylonitrile | 7.360 | 41 | 102223 | 38.21 ug/L | 90 |
| 44) Benzene | 7.354 | 78 | 146939 | 5.65 ug/L | 94 |
| 45) TAME | 7.427 | 73 | 99239 | 6.03 ug/L | 93 |
| 47) 1,2-Dichloroethane | 7.549 | 62 | 53753 | 5.99 ug/L | 96 |
| 48) Trichloroethene | 7.938 | 95 | 37266 | 5.44 ug/L | 97 |
| 49) Methylcyclohexane | 7.957 | 83 | 60178 | 5.56 ug/L | 98 |
| 50) Dibromomethane | 8.358 | 93 | 21304 | 5.97 ug/L | 94 |
| 51) 1,2-Dichloropropane | 8.449 | 63 | 35327 | 5.52 ug/L | 92 |
| 52) Bromodichloromethane | 8.492 | 83 | 48760 | 5.92 ug/L | 98 |
| 53) Methyl methacrylate | 8.601 | 41 | 12180 | 3.54 ug/L | 97 |
| 54) 2-Chloroethyl vinyl ether | 9.009 | 63 | 60893 | 17.63 ug/L | 97 |
| 55) cis-1,3-Dichloropropene | 9.112 | 75 | 53768 | 5.79 ug/L | 94 |
| 58) Toluene | 9.356 | 91 | 158750 | 5.51 ug/L | 95 |
| 59) 2-Nitropropane | 9.557 | 41 | 29047 | 25.96 ug/L | 92 |
| 60) 4-Methyl-2-pentanone | 9.672 | 43 | 105509 | 26.36 ug/L | 98 |
| 61) trans-1,3-Dichloropropene | 9.739 | 75 | 45900 | 5.81 ug/L | 94 |
| 62) Tetrachloroethene | 9.757 | 166 | 36165 | 4.63 ug/L | 97 |
| 63) Ethyl methacrylate | 9.843 | 69 | 20916 | 3.05 ug/L | 97 |
| 64) 1,1,2-Trichloroethane | 9.903 | 83 | 26208 | 5.81 ug/L | 95 |
| 65) Dibromochloromethane | 10.104 | 129 | 33121 | 5.71 ug/L | 95 |
| 66) 1,3-Dichloropropane | 10.183 | 76 | 53771 | 5.82 ug/L | 93 |
| 67) 1,2-Dibromoethane | 10.360 | 107 | 28959 | 5.89 ug/L | 87 |
| 68) 2-hexanone | 10.493 | 43 | 72038 | 26.46 ug/L | 92 |
| 69) 1-Chlorohexane | 10.798 | 91 | 40517 | 4.80 ug/L | 93 |
| 70) Ethylbenzene | 10.858 | 91 | 186881 | 5.54 ug/L | 90 |
| 71) Chlorobenzene | 10.865 | 112 | 106646 | 5.76 ug/L | 94 |
| 72) 1,1,1,2-Tetrachloroethane | 10.913 | 131 | 34486 | 5.87 ug/L | 96 |
| 73) m,p-Xylene | 10.998 | 91 | 270358 | 10.25 ug/L | 97 |
| 74) o-Xylene | 11.436 | 91 | 129759 | 5.39 ug/L | 98 |
| 75) Styrene | 11.485 | 104 | 96972 | 5.45 ug/L | 99 |
| 76) Bromoform | 11.546 | 173 | 20997 | 6.60 ug/L | 96 |
| 77) Isopropylbenzene | 11.741 | 105 | 151855 | 4.96 ug/L | 98 |
| 80) cis-1,4-Dichloro-2-butene | 12.087 | 53 | 6568 | 4.93 ug/L | 89 |
| 81) n-Propylbenzene | 12.160 | 91 | 196215 | 5.54 ug/L | 98 |
| 82) Bromobenzene | 12.185 | 156 | 48748 | 5.93 ug/L | 96 |
| 83) 1,1,2,2-Tetrachloroethane | 12.221 | 83 | 37246 | 6.18 ug/L | 93 |
| 84) 1,3,5-Trimethylbenzene | 12.343 | 105 | 140367 | 5.32 ug/L | 98 |
| 85) 2-Chlorotoluene | 12.349 | 91 | 144879 | 5.65 ug/L | 99 |
| 86) trans-1,4-Dichloro-2-B... | 12.404 | 53 | 7919 | 6.38 ug/L # | 63 |
| 87) 1,2,3-Trichloropropane | 12.379 | 110 | 9870 | 5.96 ug/L | 90 |
| 88) Cyclohexanone | 12.446 | 55 | 3599 | 35.64 ug/L | 91 |
| 89) 4-Chlorotoluene | 12.519 | 91 | 129628 | 5.50 ug/L | 100 |
| 90) a-Methyl Styrene | 12.611 | 118 | 45641 | 6.20 ug/L | 97 |
| 91) tert-Butylbenzene | 12.684 | 91 | 80074 | 5.15 ug/L | 94 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:50:22 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 92) 1,2,4-Trimethylbenzene | 12.750 | 105 | 146198 | 5.53 | ug/L | 98 |
| 93) Pentachloroethane | 12.738 | 167 | 20422 | 5.59 | ug/L | 91 |
| 94) sec-Butylbenzene | 12.866 | 105 | 168704 | 5.37 | ug/L | 99 |
| 95) 4-Isopropyltoluene | 13.000 | 119 | 138206 | 5.28 | ug/L | 95 |
| 96) 1,3-Dichlorobenzene | 13.134 | 146 | 83316 | 5.92 | ug/L | 93 |
| 97) 1,4-Dichlorobenzene | 13.219 | 146 | 88840 | 5.94 | ug/L | 92 |
| 98) n-Butylbenzene | 13.432 | 92 | 76502 | 5.10 | ug/L | 97 |
| 99) Benzyl Chloride | 13.450 | 126 | 11137 | 6.56 | ug/L # | 72 |
| 100) 1,2-Dichlorobenzene | 13.645 | 146 | 78190 | 6.11 | ug/L | 98 |
| 101) 1,2-Dibromo-3-Chloropr... | 14.381 | 75 | 4963 | 9.67 | ug/L | 81 |
| 102) Hexachlorobutadiene | 14.928 | 225 | 33756 | 8.27 | ug/L | 95 |
| 103) 1,2,4-Trichlorobenzene | 14.977 | 180 | 49773 | 11.08 | ug/L | 97 |
| 104) Naphthalene | 15.257 | 128 | 64131 | 12.01 | ug/L | 99 |
| 105) 1,2,3-Trichlorobenzene | 15.427 | 180 | 43826 | 15.47 | ug/L | 92 |
| 107) Ethanol | 4.276 | 45 | 3488m | 105.94 | ug/L | |
| 108) acrolein | 4.757 | 56 | 16510 | 19.72 | ug/L | 93 |
| 109) Tert Butyl Alcohol | 5.377 | 59 | 23268 | 65.98 | ug/L | 92 |
| 110) tert Amyl alcohol | 7.573 | 59 | 14619 | 55.57 | ug/L | 92 |
| 111) Isobutyl alcohol | 7.458 | 42 | 13258 | 92.14 | ug/L # | 86 |
| 112) 1,4-Dioxane | 8.668 | 88 | 4588 | 136.48 | ug/L | 93 |
| 113) 3,3-Dimethyl-1-butanol | 10.433 | 57 | 68847 | 238.19 | ug/L | 93 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.11

7

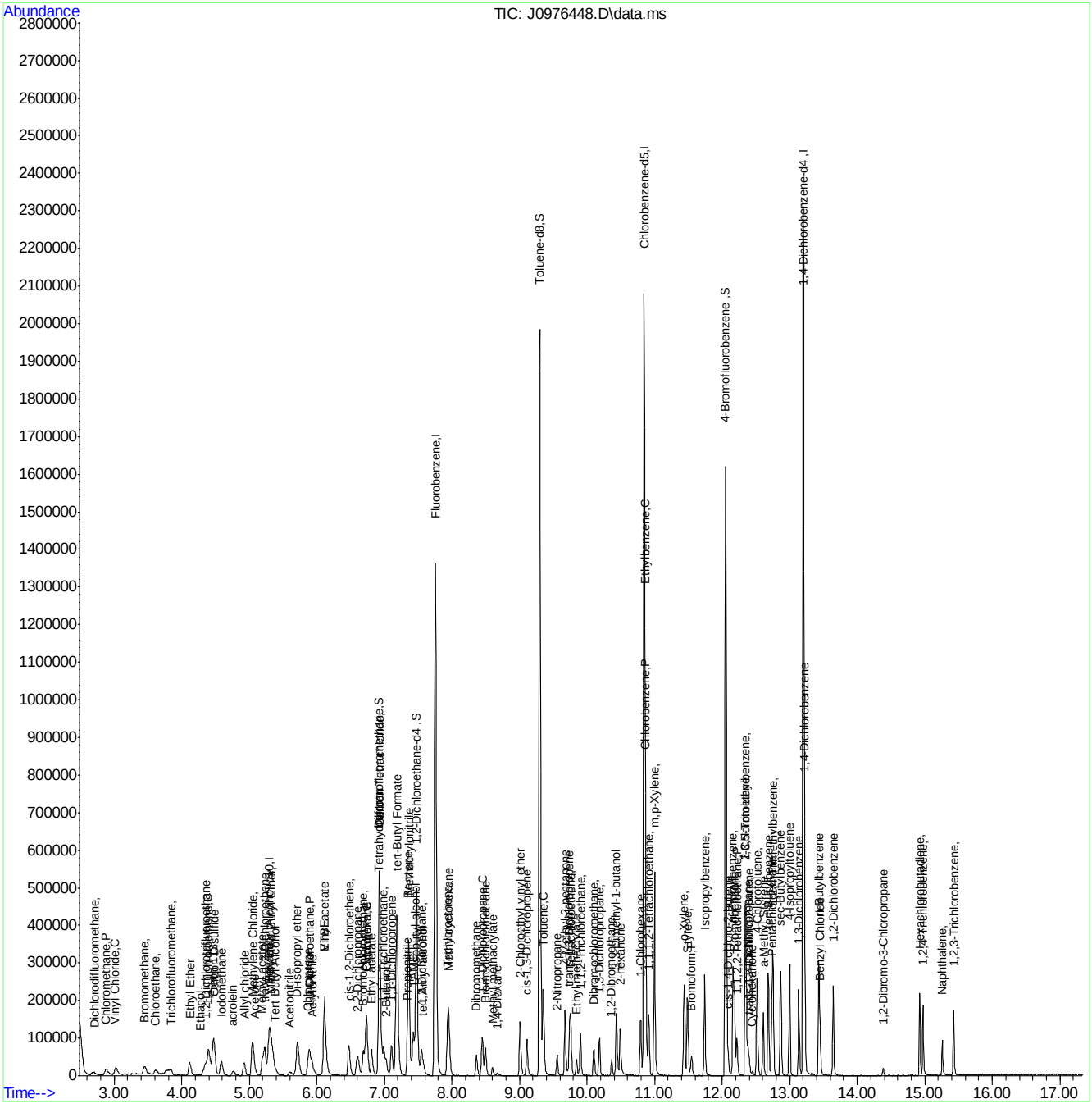


SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:50:22 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration




MSJ051216a.M Fri May 13 07:49:39 2016 Page: 4





SGS ACCUTEST FA33878

# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | VJ5295-IC5295 | **Method:** | SW846 8260B |
| **Lab FileID:** | J0976448.D | **Analyst approved:** | 05/13/16 07:53 Darshna Patel |
| **Injection Time:** | 05/12/16 10:43 | **Supervisor approved:** | 05/13/16 11:32 Melissa Mangual |

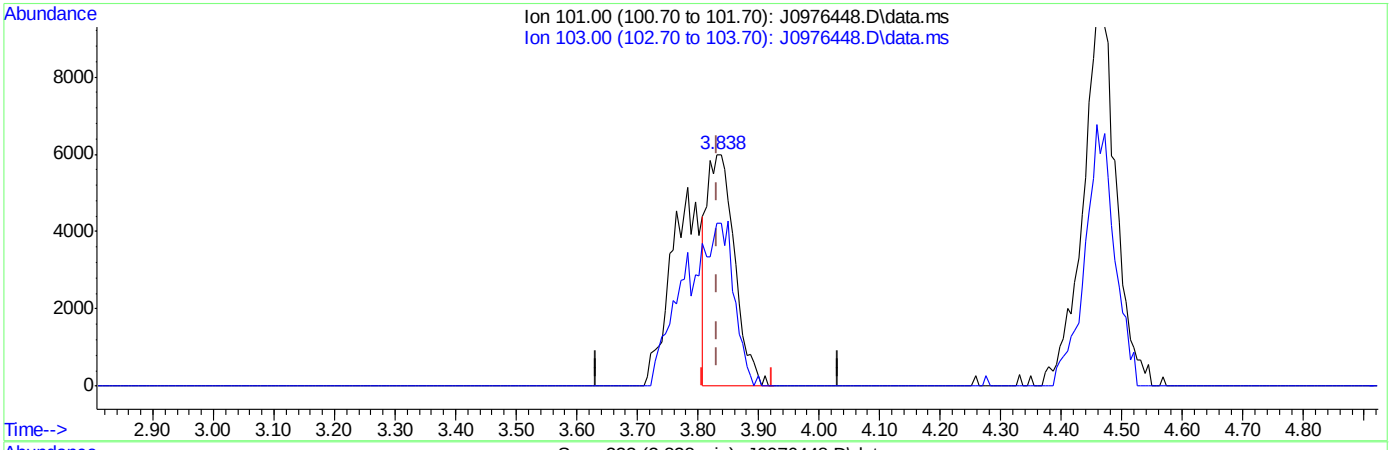
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichlorofluoromethane | 75-69-4 | | 3.84 | Split peak |
| Ethyl Alcohol | 64-17-5 | | 4.28 | Poor instrument integration |
| Carbon Tetrachloride | 56-23-5 | | 6.93 | Overlapping peak |

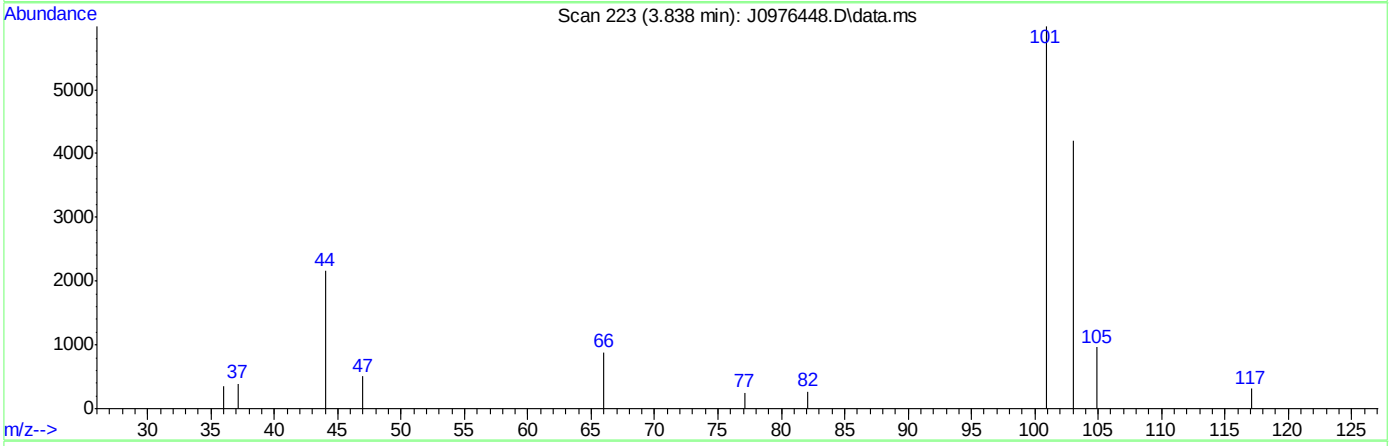
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:31:08 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976448.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 1.79ug/L

response 18868

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 63.50 | 70.14 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
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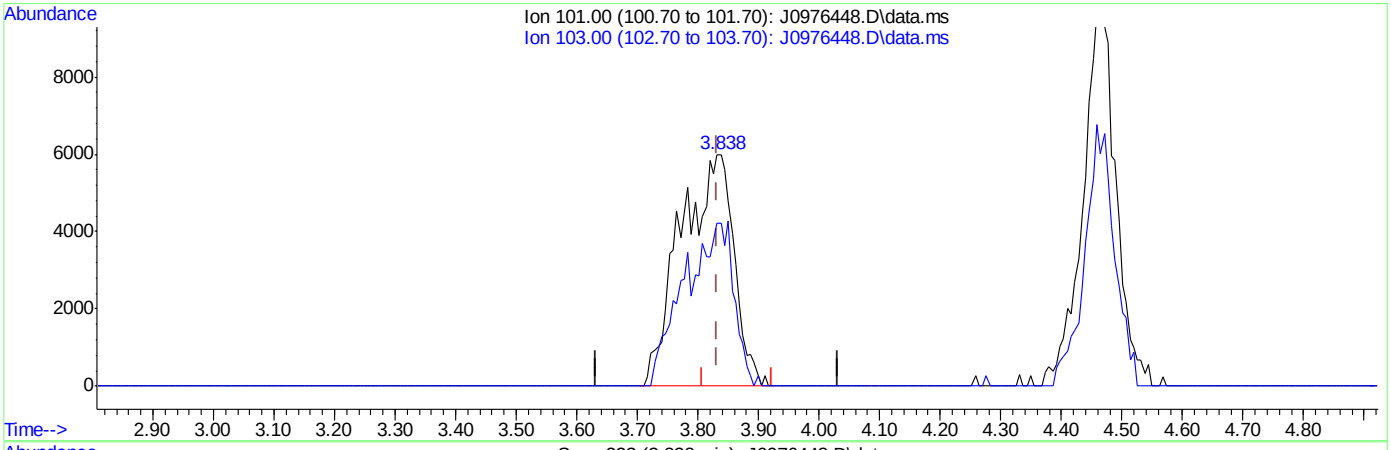


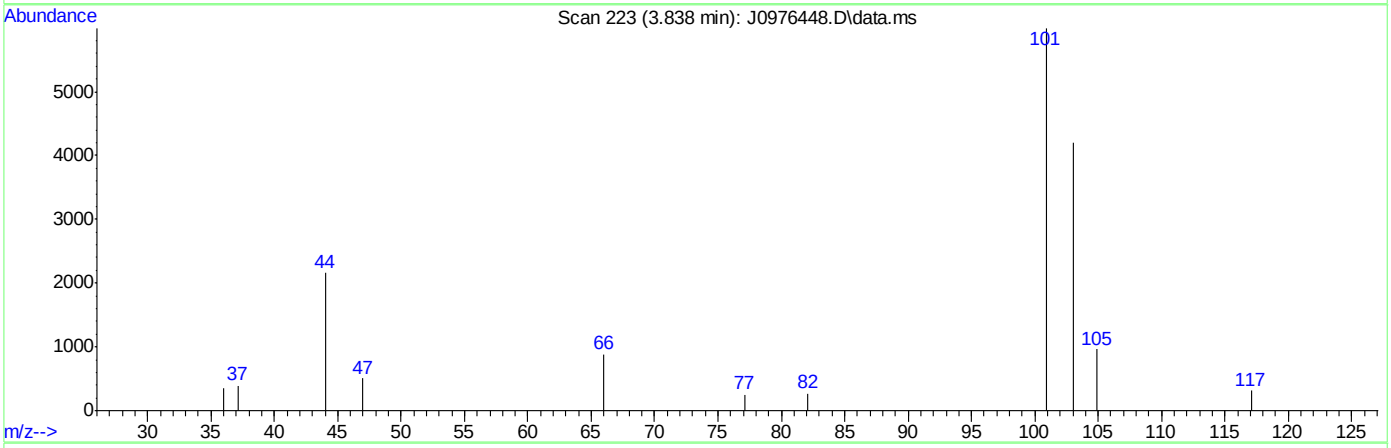


TIC: J0976448.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 3.46ug/L m

response 36438

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 63.50 | 70.14 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:31:08 2016
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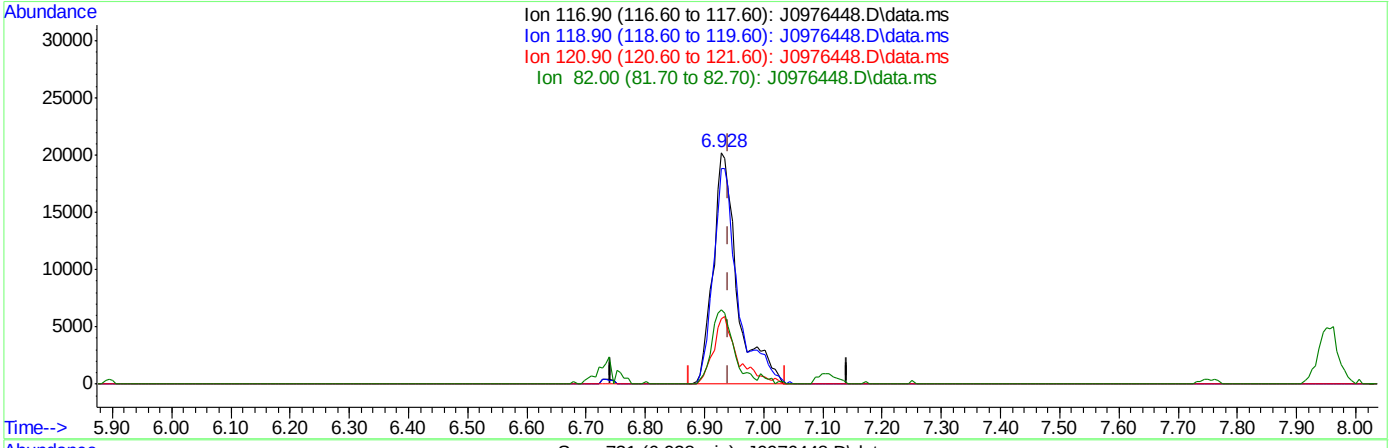
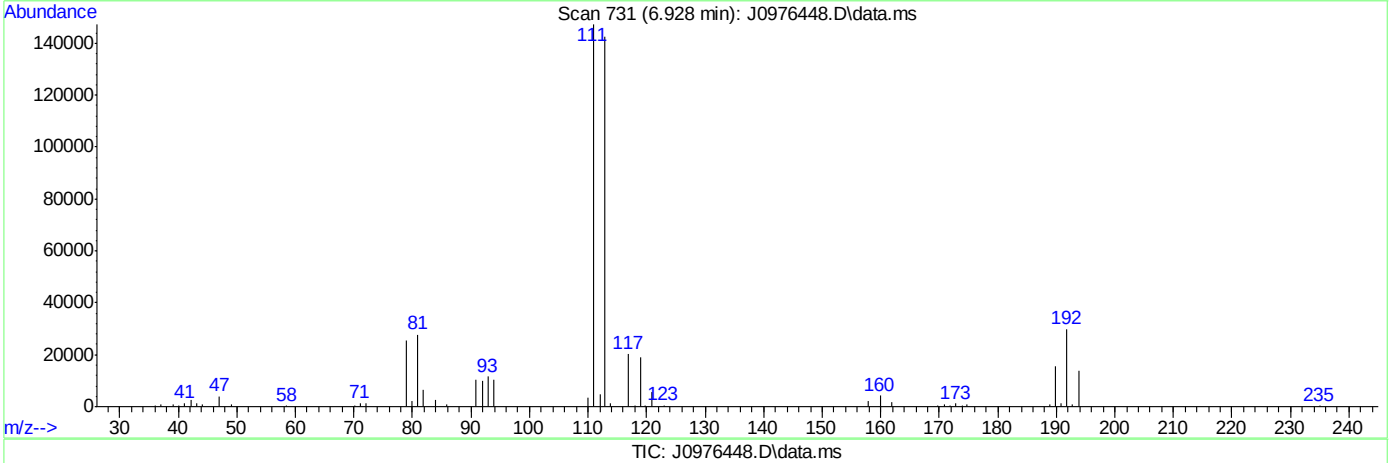
Response via : Initial Calibration






TIC: J0976448.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.013) 6.79ug/L

response 57631

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 96.80 | 93.16 |
| 120.90 | 31.80 | 28.31 |
| 82.00 | 25.40 | 31.91 |



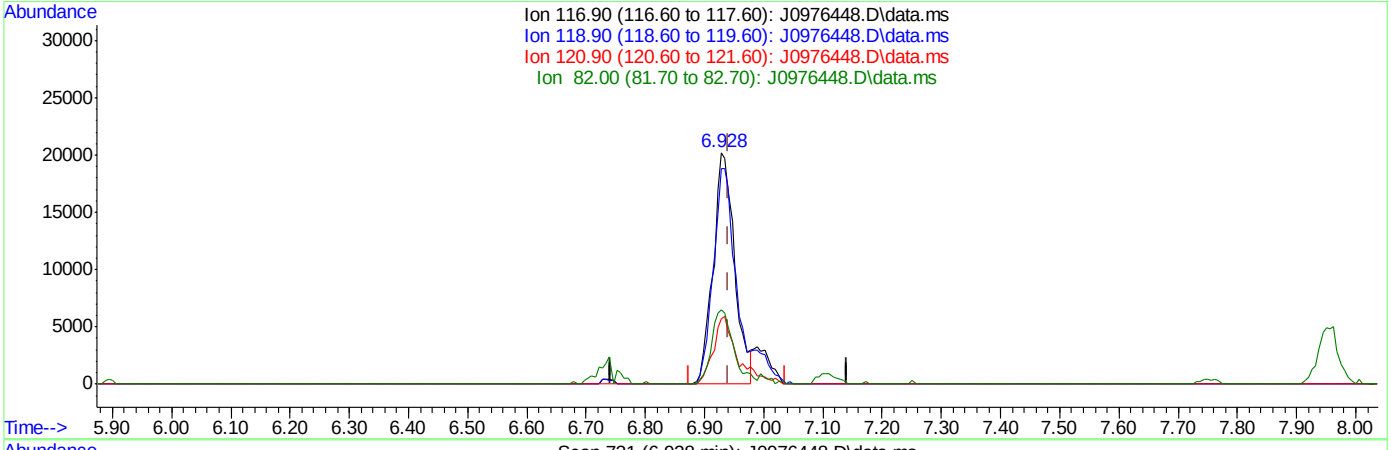
SGS ACCUTEST FA33878

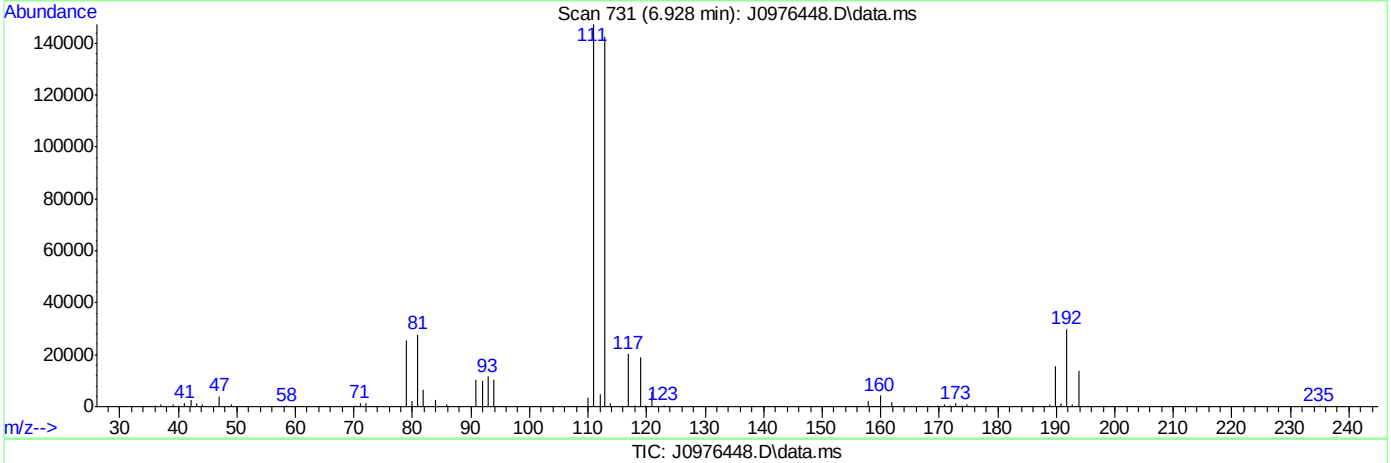
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:31:08 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976448.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.013) 6.02ug/L m

response 51124

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 96.80 | 93.16 |
| 120.90 | 31.80 | 28.31 |
| 82.00 | 25.40 | 31.91 |



SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
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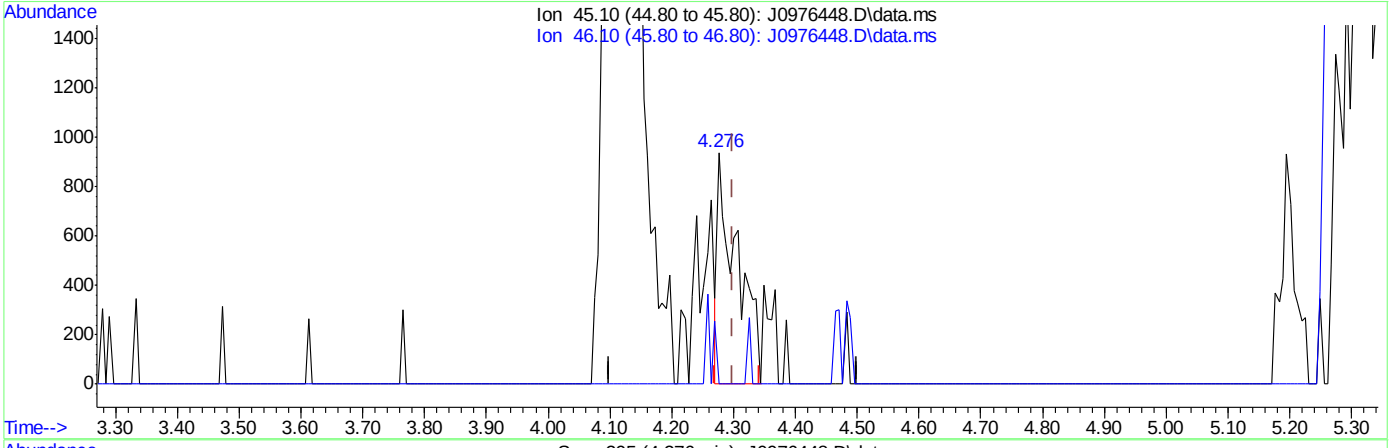
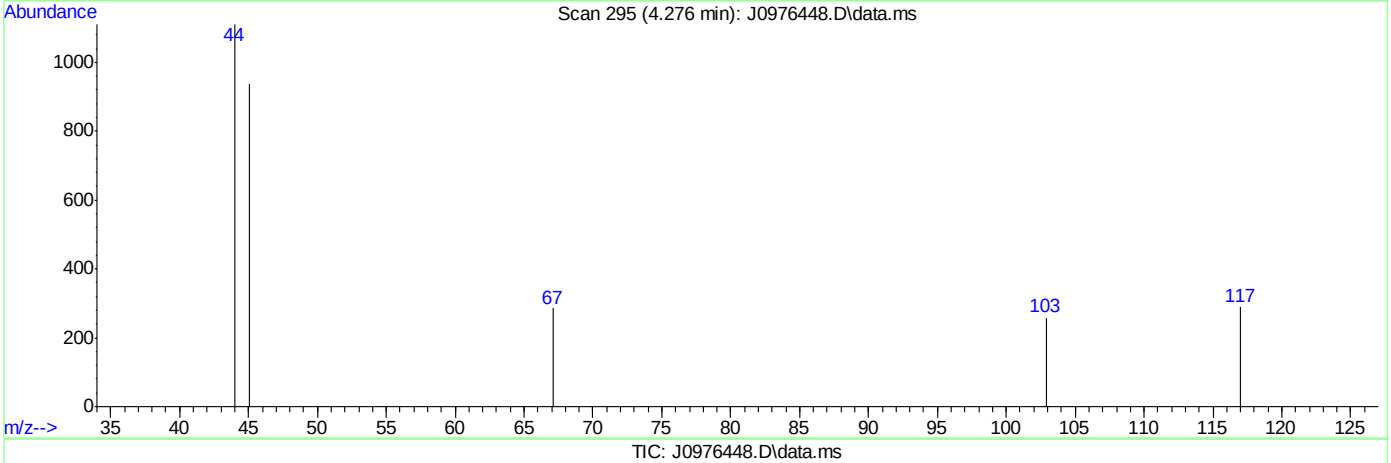
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976448.D\data.ms

(107) Ethanol

4.276min (-0.024) 62.51ug/L

response 2058

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 28.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



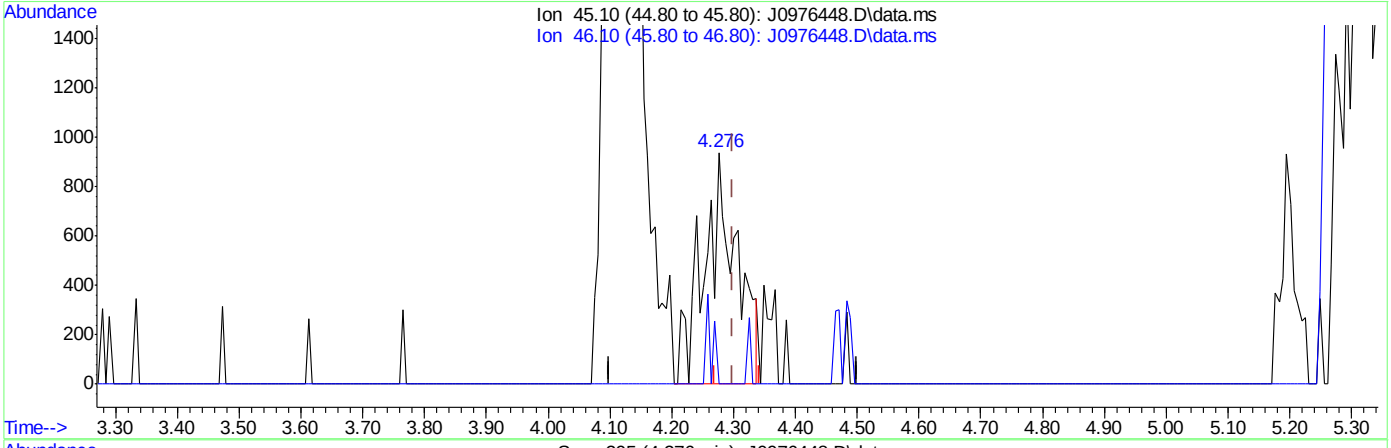
SGS ACCUTEST FA33878

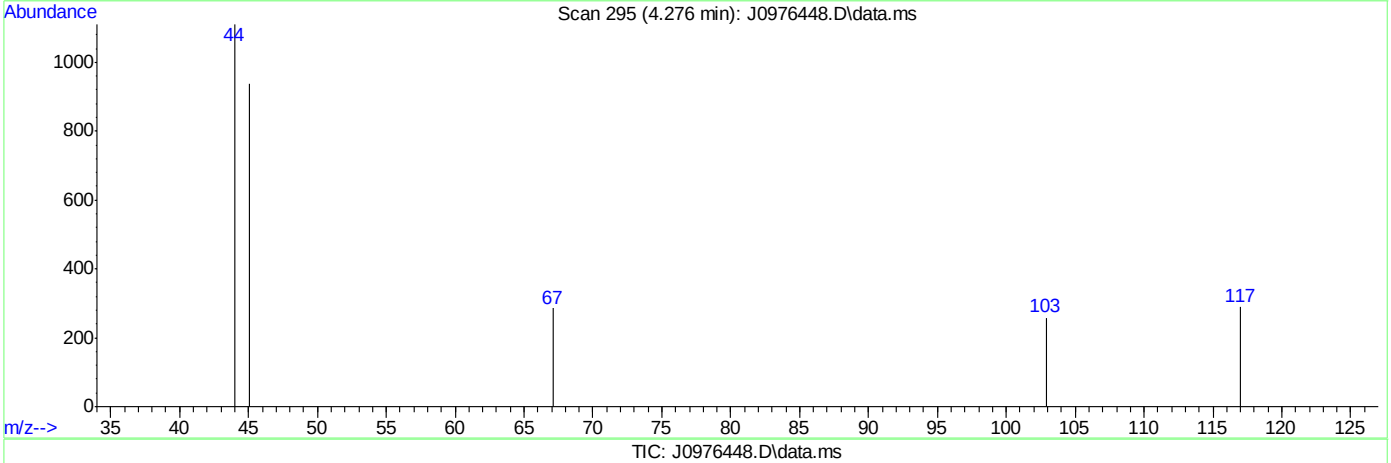
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976448.D
Acq On : 12 May 2016 10:43 am
Operator : darshnap
Sample : ic5295-2 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 12 14:31:08 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976448.D\data.ms

(107) Ethanol

4.276min (-0.024) 105.94ug/L m

response 3488

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 28.20 | 0.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976449.D
Acq On : 12 May 2016 11:06 am
Operator : darshnap
Sample : ic5295-3 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 14:50:56 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1208102 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 951117 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.201 | 152 | 540954 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.292 | 65 | 78525 | 250.00 | ug/L | -0.01 |
| **System Monitoring Compounds** | | | | | | |
| 36) Dibromofluoromethane | 6.928 | 113 | 306418 | 49.63 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 99.26% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 368277 | 49.38 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 98.76% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1237162 | 49.15 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 98.30% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 487139 | 46.89 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 93.78% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.694 | 85 | 54087 | 6.70 | ug/L | 96 |
| 3) Chloromethane | 2.883 | 50 | 71086 | 8.96 | ug/L | 99 |
| 4) Vinyl Chloride | 3.029 | 62 | 77812 | 9.39 | ug/L | 99 |
| 6) Bromomethane | 3.449 | 94 | 59026 | 11.05 | ug/L | 91 |
| 7) Chloroethane | 3.613 | 64 | 42222 | 9.38 | ug/L | 90 |
| 8) Trichlorofluoromethane | 3.832 | 101 | 98299m | 9.26 | ug/L | |
| 9) Ethyl Ether | 4.118 | 59 | 45432 | 9.06 | ug/L | 98 |
| 10) 1,2-Dichlorotrifluoroe... | 4.343 | 67 | 72239 | 10.19 | ug/L | 92 |
| 11) 1,1-Dichloroethene | 4.398 | 61 | 91897 | 10.26 | ug/L | 95 |
| 12) Freon 113 | 4.458 | 101 | 68183 | 11.40 | ug/L | 96 |
| 13) Carbon Disulfide | 4.477 | 76 | 206507 | 10.87 | ug/L | 97 |
| 14) Iodomethane | 4.586 | 142 | 99350 | 10.13 | ug/L | 98 |
| 15) Allyl chloride | 4.921 | 41 | 79158 | 9.39 | ug/L | 90 |
| 16) Methylene Chloride | 5.043 | 49 | 81350 | 9.93 | ug/L | 97 |
| 17) Acetone | 5.067 | 58 | 17460 | 51.42 | ug/L | 92 |
| 18) Methyl acetate | 5.195 | 74 | 31639 | 44.29 | ug/L # | 90 |
| 19) trans-1,2-Dichloroethene | 5.231 | 61 | 80811 | 9.27 | ug/L | 93 |
| 20) Hexane | 5.298 | 56 | 56432 | 10.40 | ug/L | 96 |
| 21) Methyl Tert Butyl Ether | 5.328 | 73 | 157646 | 9.67 | ug/L | 91 |
| 22) Acetonitrile | 5.596 | 40 | 26248 | 103.94 | ug/L | 89 |
| 23) Di-isopropyl ether | 5.718 | 45 | 171345 | 9.12 | ug/L | 95 |
| 24) Chloroprene | 5.876 | 53 | 84716 | 9.16 | ug/L | 95 |
| 25) 1,1-Dichloroethane | 5.894 | 63 | 104200 | 9.22 | ug/L | 98 |
| 26) Acrylonitrile | 5.925 | 53 | 74700 | 47.70 | ug/L | 96 |
| 27) ETBE | 6.113 | 59 | 176048 | 9.36 | ug/L | 97 |
| 28) Vinyl acetate | 6.107 | 43 | 463524 | 49.31 | ug/L | 97 |
| 29) cis-1,2-Dichloroethene | 6.472 | 96 | 64774 | 8.99 | ug/L | 95 |
| 30) 2,2-Dichloropropane | 6.600 | 77 | 87682 | 10.34 | ug/L | 91 |
| 31) Bromochloromethane | 6.685 | 128 | 31663 | 9.46 | ug/L | 91 |
| 32) Cyclohexane | 6.728 | 56 | 100544 | 9.96 | ug/L | 97 |
| 33) Chloroform | 6.740 | 83 | 115384 | 9.35 | ug/L | 98 |
| 34) Ethyl acetate | 6.807 | 43 | 168643 | 44.91 | ug/L | 95 |
| 35) Tetrahydrofuran | 6.916 | 42 | 10877 | 10.09 | ug/L | 90 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976449.D
Acq On : 12 May 2016 11:06 am
Operator : darshnap
Sample : ic5295-3 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 14:50:56 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 37) | Carbon Tetrachloride | 6.935 | 117 | 88661m | 10.36 | ug/L | | |
| 38) | 1,1,1-Trichloroethane | 6.989 | 97 | 102620 | 9.89 | ug/L | | 95 |
| 39) | 2-Butanone | 7.032 | 43 | 77302 | 47.00 | ug/L | | 89 |
| 40) | 1,1-Dichloropropene | 7.105 | 75 | 77863 | 9.06 | ug/L | | 95 |
| 41) | tert-Butyl Formate | 7.184 | 59 | 374659 | 98.67 | ug/L | | 91 |
| 42) | Propionitrile | 7.330 | 54 | 55465 | 97.09 | ug/L | | 77 |
| 43) | Methacrylonitrile | 7.360 | 41 | 232285 | 86.89 | ug/L | | 98 |
| 44) | Benzene | 7.354 | 78 | 237505 | 9.07 | ug/L | | 99 |
| 45) | TAME | 7.433 | 73 | 154834 | 9.34 | ug/L | | 92 |
| 47) | 1,2-Dichloroethane | 7.549 | 62 | 80557 | 8.91 | ug/L | | 98 |
| 48) | Trichloroethene | 7.938 | 95 | 62795 | 9.09 | ug/L | | 97 |
| 49) | Methylcyclohexane | 7.950 | 83 | 107348 | 9.85 | ug/L | | 97 |
| 50) | Dibromomethane | 8.364 | 93 | 32193 | 8.96 | ug/L | | 96 |
| 51) | 1,2-Dichloropropane | 8.449 | 63 | 56095 | 8.71 | ug/L | | 96 |
| 52) | Bromodichloromethane | 8.492 | 83 | 74941 | 9.03 | ug/L | | 96 |
| 53) | Methyl methacrylate | 8.595 | 41 | 29857 | 8.61 | ug/L | | 94 |
| 54) | 2-Chloroethyl vinyl ether | 9.009 | 63 | 148300 | 42.74 | ug/L | | 98 |
| 55) | cis-1,3-Dichloropropene | 9.112 | 75 | 86808 | 9.27 | ug/L | | 95 |
| 58) | Toluene | 9.356 | 91 | 261059 | 8.78 | ug/L | | 99 |
| 59) | 2-Nitropropane | 9.557 | 41 | 42575 | 36.72 | ug/L | | 95 |
| 60) | 4-Methyl-2-pentanone | 9.672 | 43 | 201073 | 48.47 | ug/L | | 97 |
| 61) | trans-1,3-Dichloropropene | 9.739 | 75 | 74039 | 9.04 | ug/L | | 95 |
| 62) | Tetrachloroethene | 9.757 | 166 | 64141 | 7.92 | ug/L | | 95 |
| 63) | Ethyl methacrylate | 9.842 | 69 | 55426 | 7.79 | ug/L | | 94 |
| 64) | 1,1,2-Trichloroethane | 9.903 | 83 | 39733 | 8.49 | ug/L | | 97 |
| 65) | Dibromochloromethane | 10.104 | 129 | 52004 | 8.65 | ug/L | | 99 |
| 66) | 1,3-Dichloropropane | 10.183 | 76 | 82420 | 8.62 | ug/L | | 97 |
| 67) | 1,2-Dibromoethane | 10.366 | 107 | 45790 | 8.98 | ug/L | | 86 |
| 68) | 2-hexanone | 10.493 | 43 | 138835 | 49.21 | ug/L | | 97 |
| 69) | 1-Chlorohexane | 10.798 | 91 | 78478 | 8.98 | ug/L | | 98 |
| 70) | Ethylbenzene | 10.858 | 91 | 314574 | 9.06 | ug/L | | 95 |
| 71) | Chlorobenzene | 10.865 | 112 | 175803 | 9.18 | ug/L | | 96 |
| 72) | 1,1,1,2-Tetrachloroethane | 10.913 | 131 | 56097 | 9.21 | ug/L | | 98 |
| 73) | m,p-Xylene | 10.998 | 91 | 467747 | 17.32 | ug/L | | 96 |
| 74) | o-Xylene | 11.436 | 91 | 223281 | 8.96 | ug/L | | 98 |
| 75) | Styrene | 11.485 | 104 | 169015 | 9.17 | ug/L | | 98 |
| 76) | Bromoform | 11.546 | 173 | 30934 | 9.36 | ug/L | | 99 |
| 77) | Isopropylbenzene | 11.741 | 105 | 266343 | 8.45 | ug/L | | 100 |
| 80) | cis-1,4-Dichloro-2-butene | 12.087 | 53 | 15250 | 10.75 | ug/L | # | 82 |
| 81) | n-Propylbenzene | 12.160 | 91 | 342702 | 9.08 | ug/L | | 99 |
| 82) | Bromobenzene | 12.185 | 156 | 76189 | 8.70 | ug/L | | 96 |
| 83) | 1,1,2,2-Tetrachloroethane | 12.221 | 83 | 59818 | 9.32 | ug/L | | 97 |
| 84) | 1,3,5-Trimethylbenzene | 12.343 | 105 | 251522 | 8.95 | ug/L | | 100 |
| 85) | 2-Chlorotoluene | 12.349 | 91 | 245687 | 8.99 | ug/L | | 97 |
| 86) | trans-1,4-Dichloro-2-B... | 12.404 | 53 | 13211 | 9.95 | ug/L | | 88 |
| 87) | 1,2,3-Trichloropropane | 12.385 | 110 | 15939 | 9.04 | ug/L | | 94 |
| 88) | Cyclohexanone | 12.446 | 55 | 6087 | 56.61 | ug/L | | 89 |
| 89) | 4-Chlorotoluene | 12.519 | 91 | 214705 | 8.56 | ug/L | | 98 |
| 90) | a-Methyl Styrene | 12.610 | 118 | 131165 | 16.72 | ug/L | | 99 |
| 91) | tert-Butylbenzene | 12.684 | 91 | 144545 | 8.73 | ug/L | | 96 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976449.D
Acq On : 12 May 2016 11:06 am
Operator : darshnap
Sample : ic5295-3 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 14:50:56 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

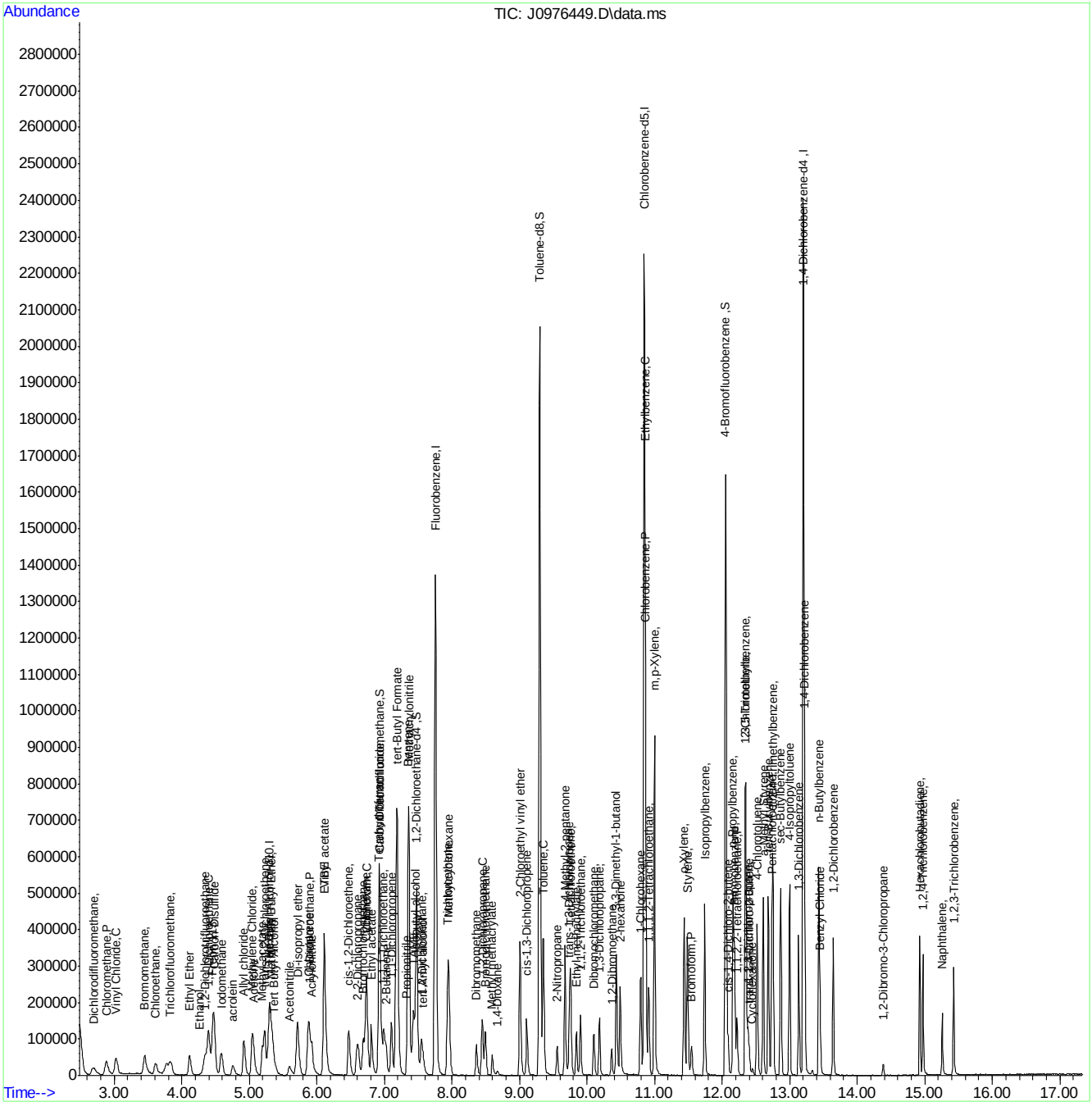
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 92) 1,2,4-Trimethylbenzene | 12.750 | 105 | 249916 | 8.89 | ug/L | 99 |
| 93) Pentachloroethane | 12.738 | 167 | 51519 | 13.01 | ug/L | 96 |
| 94) sec-Butylbenzene | 12.866 | 105 | 306812 | 9.17 | ug/L | 98 |
| 95) 4-Isopropyltoluene | 13.000 | 119 | 251972 | 9.04 | ug/L | 97 |
| 96) 1,3-Dichlorobenzene | 13.134 | 146 | 132293 | 8.83 | ug/L | 96 |
| 97) 1,4-Dichlorobenzene | 13.219 | 146 | 140933 | 8.86 | ug/L | 94 |
| 98) n-Butylbenzene | 13.432 | 92 | 139038 | 8.71 | ug/L | 90 |
| 99) Benzyl Chloride | 13.450 | 126 | 17170 | 9.43 | ug/L | 97 |
| 100) 1,2-Dichlorobenzene | 13.645 | 146 | 123540 | 9.07 | ug/L | 97 |
| 101) 1,2-Dibromo-3-Chloropr... | 14.381 | 75 | 7072 | 12.87 | ug/L | 91 |
| 102) Hexachlorobutadiene | 14.928 | 225 | 61318 | 14.02 | ug/L | 97 |
| 103) 1,2,4-Trichlorobenzene | 14.971 | 180 | 83313 | 17.17 | ug/L | 98 |
| 104) Naphthalene | 15.257 | 128 | 110727 | 18.87 | ug/L | 99 |
| 105) 1,2,3-Trichlorobenzene | 15.427 | 180 | 71128 | 22.84 | ug/L | 98 |
| 107) Ethanol | 4.264 | 45 | 8664 | 254.40 | ug/L | 75 |
| 108) acrolein | 4.757 | 56 | 34862 | 40.26 | ug/L | 94 |
| 109) Tert Butyl Alcohol | 5.371 | 59 | 34528 | 94.66 | ug/L | 88 |
| 110) tert Amyl alcohol | 7.573 | 59 | 23027 | 84.63 | ug/L | 85 |
| 111) Isobutyl alcohol | 7.458 | 42 | 25574 | 173.00 | ug/L | 91 |
| 112) 1,4-Dioxane | 8.674 | 88 | 6683 | 192.19 | ug/L | 96 |
| 113) 3,3-Dimethyl-1-butanol | 10.433 | 57 | 131766 | 436.63 | ug/L | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976449.D
Acq On : 12 May 2016 11:06 am
Operator : darshnap
Sample : ic5295-3 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 14:50:56 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration










SGS ACCUTEST FA33878

# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | VJ5295-IC5295 | **Method:** | SW846 8260B |
| **Lab FileID:** | J0976449.D | **Analyst approved:** | 05/13/16 07:53 Darshna Patel |
| **Injection Time:** | 05/12/16 11:06 | **Supervisor approved:** | 05/13/16 11:32 Melissa Mangual |

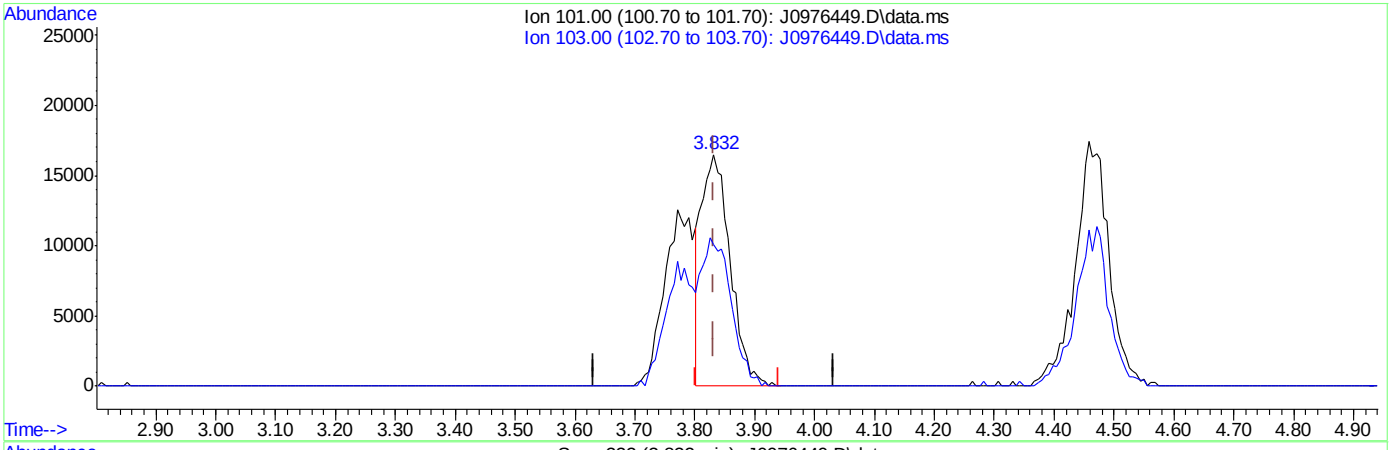
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichlorofluoromethane | 75-69-4 | | 3.83 | Split peak |
| Carbon Tetrachloride | 56-23-5 | | 6.93 | Overlapping peak |

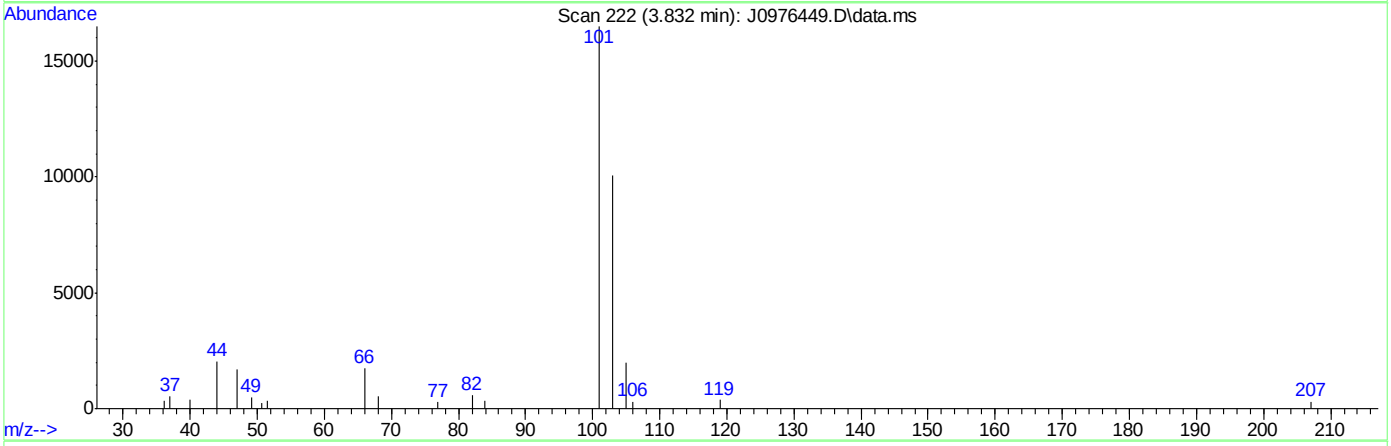
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976449.D
Acq On : 12 May 2016 11:06 am
Operator : darshnap
Sample : ic5295-3 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 14:31:11 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976449.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 5.19ug/L

response 55116

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 63.50 | 61.02 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



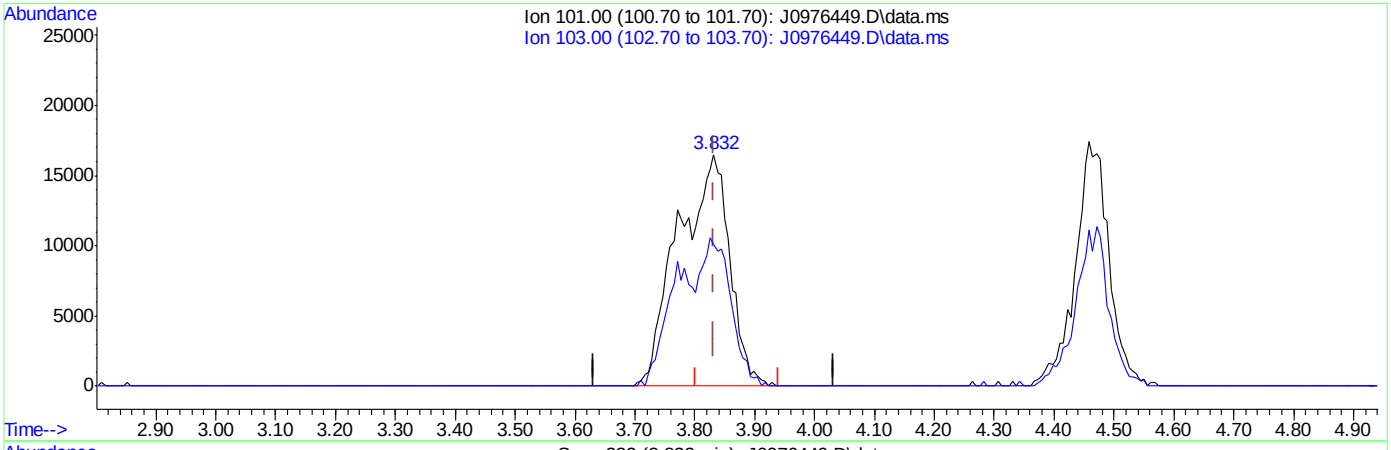
SGS ACCUTEST FA33878

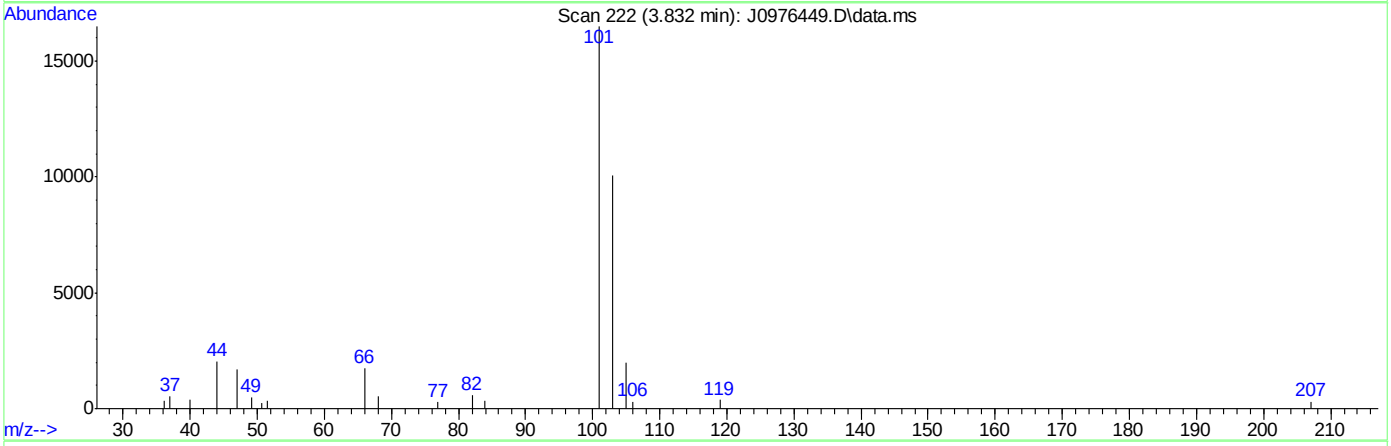
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976449.D
Acq On : 12 May 2016 11:06 am
Operator : darshnap
Sample : ic5295-3 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 14:31:11 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976449.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 9.26ug/L m

response 98299

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 63.50 | 61.02 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



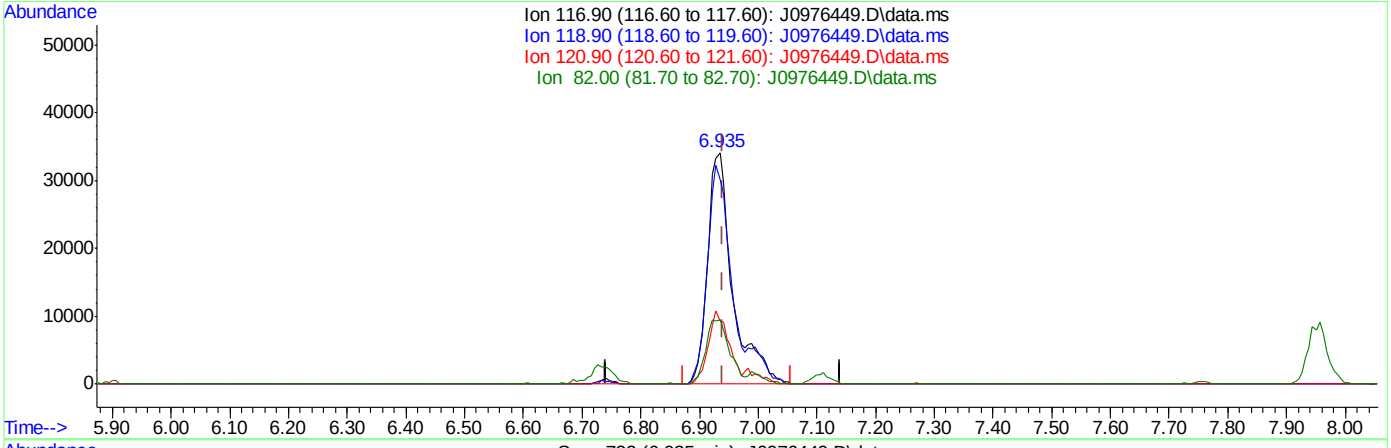
SGS ACCUTEST FA33878

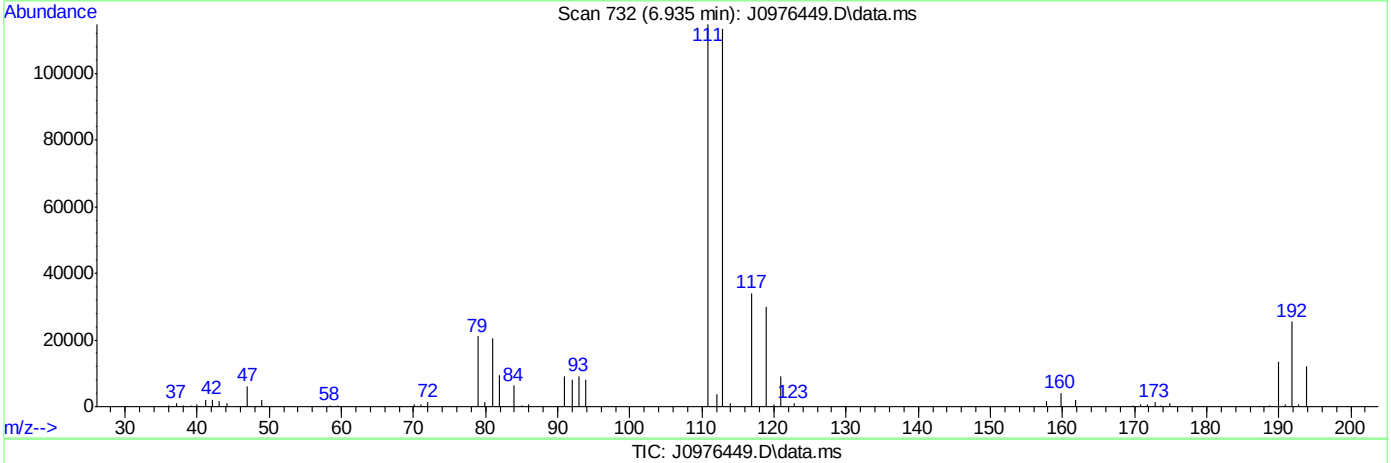
# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976449.D
Acq On : 12 May 2016 11:06 am
Operator : darshnap
Sample : ic5295-3 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 14:31:11 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976449.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.006) 11.76ug/L

response 100635

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 96.80 | 88.16 |
| 120.90 | 31.80 | 27.12 |
| 82.00 | 25.40 | 27.53 |



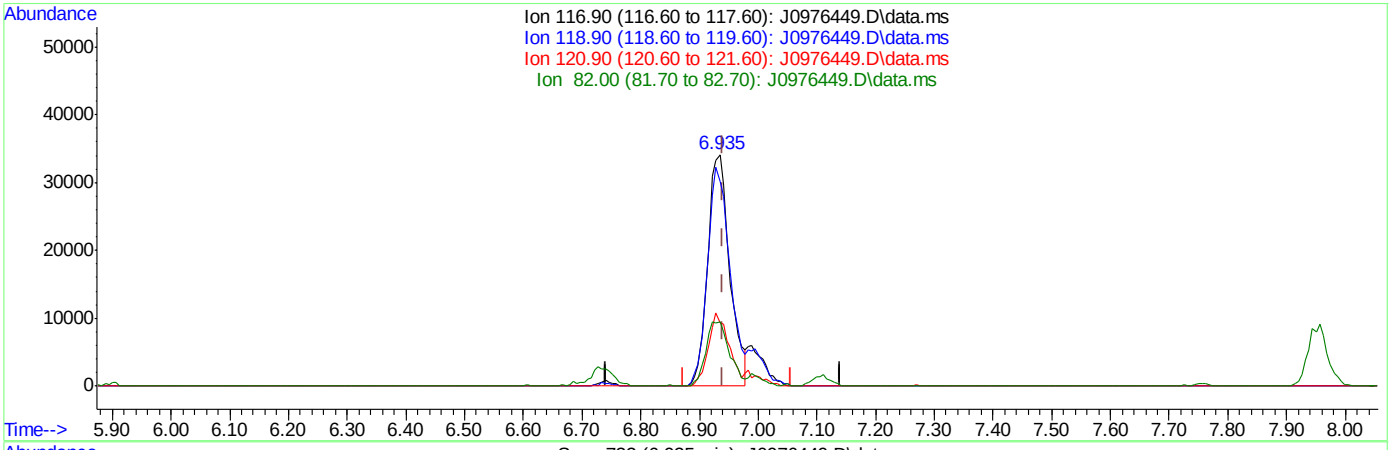
SGS ACCUTEST FA33878

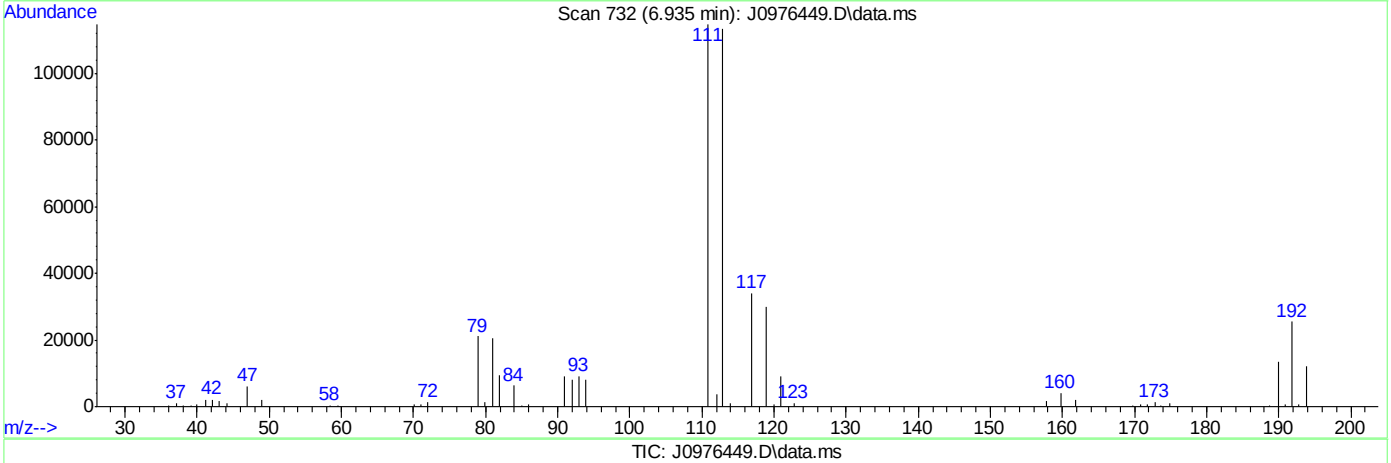
# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976449.D
Acq On : 12 May 2016 11:06 am
Operator : darshnap
Sample : ic5295-3 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 12 14:31:11 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976449.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.006) 10.36ug/L m

response 88661

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 96.80 | 88.16 |
| 120.90 | 31.80 | 27.12 |
| 82.00 | 25.40 | 27.53 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:51:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1312783 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 1054653 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.200 | 152 | 588586 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.292 | 65 | 85411 | 250.00 | ug/L | -0.01 |
| System Monitoring Compounds | | | | | | |
| 36) Dibromofluoromethane | 6.922 | 113 | 320342 | 47.75 | ug/L | -0.01 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 95.50% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 385964 | 47.62 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 95.24% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1341322 | 48.06 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 96.12% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 541843 | 47.94 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 95.88% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.682 | 85 | 119601 | 13.63 | ug/L | 97 |
| 3) Chloromethane | 2.883 | 50 | 163185 | 19.00 | ug/L | 93 |
| 4) Vinyl Chloride | 3.035 | 62 | 167420 | 18.60 | ug/L | 96 |
| 5) 1,3-Butadiene | 3.023 | 54 | 5266 | 0.73 | ug/L # | 67 |
| 6) Bromomethane | 3.449 | 94 | 117942 | 21.13 | ug/L | 94 |
| 7) Chloroethane | 3.613 | 64 | 83552 | 17.74 | ug/L | 96 |
| 8) Trichlorofluoromethane | 3.832 | 101 | 222044m | 19.26 | ug/L | |
| 9) Ethyl Ether | 4.118 | 59 | 126518 | 23.22 | ug/L | 97 |
| 10) 1,2-Dichlorotrifluoroe... | 4.349 | 67 | 179901 | 23.34 | ug/L | 99 |
| 11) 1,1-Dichloroethene | 4.398 | 61 | 234473 | 24.09 | ug/L | 96 |
| 12) Freon 113 | 4.464 | 101 | 158117 | 24.33 | ug/L | 91 |
| 13) Carbon Disulfide | 4.471 | 76 | 528183 | 25.59 | ug/L | 98 |
| 14) Iodomethane | 4.586 | 142 | 266743 | 25.03 | ug/L | 98 |
| 15) Allyl chloride | 4.915 | 41 | 209957 | 22.92 | ug/L | 94 |
| 16) Methylene Chloride | 5.042 | 49 | 217395 | 24.67 | ug/L | 97 |
| 17) Acetone | 5.067 | 58 | 45797 | 123.25 | ug/L | 94 |
| 18) Methyl acetate | 5.188 | 74 | 91925 | 118.43 | ug/L | 92 |
| 19) trans-1,2-Dichloroethene | 5.225 | 61 | 213774 | 22.56 | ug/L | 97 |
| 20) Hexane | 5.298 | 56 | 140690 | 23.86 | ug/L | 96 |
| 21) Methyl Tert Butyl Ether | 5.334 | 73 | 444687 | 25.11 | ug/L | 82 |
| 22) Acetonitrile | 5.590 | 40 | 64556 | 238.28 | ug/L | 99 |
| 23) Di-isopropyl ether | 5.712 | 45 | 493821 | 24.20 | ug/L | 97 |
| 24) Chloroprene | 5.870 | 53 | 214824 | 21.37 | ug/L | 97 |
| 25) 1,1-Dichloroethane | 5.894 | 63 | 284702 | 23.19 | ug/L | 98 |
| 26) Acrylonitrile | 5.925 | 53 | 203691 | 119.70 | ug/L | 96 |
| 27) ETBE | 6.113 | 59 | 525869 | 25.74 | ug/L | 99 |
| 28) Vinyl acetate | 6.107 | 43 | 1324238 | 129.63 | ug/L | 98 |
| 29) cis-1,2-Dichloroethene | 6.472 | 96 | 176980 | 22.60 | ug/L | 98 |
| 30) 2,2-Dichloropropane | 6.600 | 77 | 225195 | 24.44 | ug/L | 98 |
| 31) Bromochloromethane | 6.679 | 128 | 85062 | 23.39 | ug/L | 96 |
| 32) Cyclohexane | 6.728 | 56 | 262357 | 23.93 | ug/L | 97 |
| 33) Chloroform | 6.734 | 83 | 312348 | 23.30 | ug/L | 99 |
| 34) Ethyl acetate | 6.807 | 43 | 456304 | 111.84 | ug/L | 98 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:51:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) Tetrahydrofuran | 6.916 | 42 | 26255 | 22.35 ug/L | 93 |
| 37) Carbon Tetrachloride | 6.928 | 117 | 231974m | 24.94 ug/L | |
| 38) 1,1,1-Trichloroethane | 6.989 | 97 | 269107 | 23.86 ug/L | 94 |
| 39) 2-Butanone | 7.020 | 43 | 205123 | 114.79 ug/L | 94 |
| 40) 1,1-Dichloropropene | 7.105 | 75 | 207277 | 22.19 ug/L | 98 |
| 41) tert-Butyl Formate | 7.184 | 59 | 1106447 | 267.53 ug/L | 94 |
| 42) Propionitrile | 7.330 | 54 | 149661 | 241.08 ug/L | 82 |
| 43) Methacrylonitrile | 7.354 | 41 | 651563 | 230.05 ug/L | 97 |
| 44) Benzene | 7.354 | 78 | 692560 | 24.34 ug/L | 98 |
| 45) TAME | 7.433 | 73 | 486305 | 26.99 ug/L | 97 |
| 47) 1,2-Dichloroethane | 7.543 | 62 | 228022 | 23.21 ug/L | 99 |
| 48) Trichloroethene | 7.932 | 95 | 172302 | 22.96 ug/L | 95 |
| 49) Methylcyclohexane | 7.956 | 83 | 299305 | 25.27 ug/L | 99 |
| 50) Dibromomethane | 8.358 | 93 | 98600 | 25.25 ug/L | 97 |
| 51) 1,2-Dichloropropane | 8.449 | 63 | 167146 | 23.87 ug/L | 93 |
| 52) Bromodichloromethane | 8.492 | 83 | 222490 | 24.67 ug/L | 99 |
| 53) Methyl methacrylate | 8.595 | 41 | 89082 | 23.63 ug/L | 98 |
| 54) 2-Chloroethyl vinyl ether | 9.009 | 63 | 441464 | 118.21 ug/L | 98 |
| 55) cis-1,3-Dichloropropene | 9.106 | 75 | 259029 | 25.46 ug/L | 97 |
| 58) Toluene | 9.350 | 91 | 733685 | 22.71 ug/L | 99 |
| 59) 2-Nitropropane | 9.556 | 41 | 138110 | 107.42 ug/L | 98 |
| 60) 4-Methyl-2-pentanone | 9.672 | 43 | 558993 | 121.53 ug/L | 99 |
| 61) trans-1,3-Dichloropropene | 9.733 | 75 | 232608 | 25.62 ug/L | 97 |
| 62) Tetrachloroethene | 9.757 | 166 | 174012 | 19.39 ug/L | 99 |
| 63) Ethyl methacrylate | 9.836 | 69 | 175159 | 22.19 ug/L | 98 |
| 64) 1,1,2-Trichloroethane | 9.903 | 83 | 122893 | 23.69 ug/L | 97 |
| 65) Dibromochloromethane | 10.098 | 129 | 161241 | 24.07 ug/L | 96 |
| 66) 1,3-Dichloropropane | 10.183 | 76 | 246520 | 23.24 ug/L | 99 |
| 67) 1,2-Dibromoethane | 10.359 | 107 | 137858 | 24.38 ug/L | 99 |
| 68) 2-hexanone | 10.487 | 43 | 390423 | 124.79 ug/L | 100 |
| 69) 1-Chlorohexane | 10.797 | 91 | 220659 | 22.77 ug/L | 99 |
| 70) Ethylbenzene | 10.858 | 91 | 880544 | 23.58 ug/L | 100 |
| 71) Chlorobenzene | 10.864 | 112 | 510597 | 24.26 ug/L | 97 |
| 72) 1,1,1,2-Tetrachloroethane | 10.913 | 131 | 170216 | 25.20 ug/L | 98 |
| 73) m,p-Xylene | 10.998 | 91 | 1345333 | 47.37 ug/L | 99 |
| 74) o-Xylene | 11.436 | 91 | 678323 | 24.54 ug/L | 99 |
| 75) Styrene | 11.485 | 104 | 546469 | 26.74 ug/L | 99 |
| 76) Bromoform | 11.546 | 173 | 102523 | 27.41 ug/L | 95 |
| 77) Isopropylbenzene | 11.740 | 105 | 801484 | 23.49 ug/L | 100 |
| 80) cis-1,4-Dichloro-2-butene | 12.087 | 53 | 47961 | 31.06 ug/L | 96 |
| 81) n-Propylbenzene | 12.160 | 91 | 985312 | 24.00 ug/L | 99 |
| 82) Bromobenzene | 12.185 | 156 | 226990 | 23.83 ug/L | 97 |
| 83) 1,1,2,2-Tetrachloroethane | 12.221 | 83 | 182918 | 26.20 ug/L | 98 |
| 84) 1,3,5-Trimethylbenzene | 12.343 | 105 | 743003 | 24.31 ug/L | 98 |
| 85) 2-Chlorotoluene | 12.349 | 91 | 716233 | 24.10 ug/L | 99 |
| 86) trans-1,4-Dichloro-2-B... | 12.397 | 53 | 42819 | 28.84 ug/L # | 82 |
| 87) 1,2,3-Trichloropropane | 12.379 | 110 | 49681 | 25.89 ug/L | 94 |
| 88) Cyclohexanone | 12.446 | 55 | 20875 | 178.44 ug/L | 91 |
| 89) 4-Chlorotoluene | 12.519 | 91 | 658157 | 24.12 ug/L | 99 |
| 90) a-Methyl Styrene | 12.604 | 118 | 400190 | 46.90 ug/L | 98 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:51:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 91) | tert-Butylbenzene | 12.683 | 91 | 412099 | 22.87 | ug/L | | 99 |
| 92) | 1,2,4-Trimethylbenzene | 12.750 | 105 | 757028 | 24.74 | ug/L | | 99 |
| 93) | Pentachloroethane | 12.738 | 167 | 149085 | 33.01 | ug/L | | 96 |
| 94) | sec-Butylbenzene | 12.866 | 105 | 884063 | 24.28 | ug/L | | 100 |
| 95) | 4-Isopropyltoluene | 13.000 | 119 | 758100 | 24.99 | ug/L | | 99 |
| 96) | 1,3-Dichlorobenzene | 13.134 | 146 | 394336 | 24.18 | ug/L | | 97 |
| 97) | 1,4-Dichlorobenzene | 13.219 | 146 | 421717 | 24.35 | ug/L | | 97 |
| 98) | n-Butylbenzene | 13.432 | 92 | 426173 | 24.53 | ug/L | | 98 |
| 99) | Benzyl Chloride | 13.444 | 126 | 63975 | 30.61 | ug/L | # | 63 |
| 100) | 1,2-Dichlorobenzene | 13.645 | 146 | 373815 | 25.23 | ug/L | | 97 |
| 101) | 1,2-Dibromo-3-Chloropr... | 14.381 | 75 | 23086 | 36.95 | ug/L | | 93 |
| 102) | Hexachlorobutadiene | 14.928 | 225 | 152696 | 31.47 | ug/L | | 97 |
| 103) | 1,2,4-Trichlorobenzene | 14.971 | 180 | 240911 | 43.13 | ug/L | | 98 |
| 104) | Naphthalene | 15.257 | 128 | 353157 | 48.72 | ug/L | | 99 |
| 105) | 1,2,3-Trichlorobenzene | 15.427 | 180 | 204474 | 53.42 | ug/L | | 98 |
| 107) | Ethanol | 4.276 | 45 | 21322m | 575.60 | ug/L | | |
| 108) | acrolein | 4.756 | 56 | 97667 | 103.71 | ug/L | | 93 |
| 109) | Tert Butyl Alcohol | 5.377 | 59 | 100544 | 253.43 | ug/L | | 94 |
| 110) | tert Amyl alcohol | 7.573 | 59 | 77472 | 261.76 | ug/L | | 96 |
| 111) | Isobutyl alcohol | 7.458 | 42 | 73357 | 467.88 | ug/L | # | 90 |
| 112) | 1,4-Dioxane | 8.674 | 88 | 21577 | 570.49 | ug/L | | 94 |
| 113) | 3,3-Dimethyl-1-butanol | 10.432 | 57 | 436944 | 1280.55 | ug/L | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.13

7

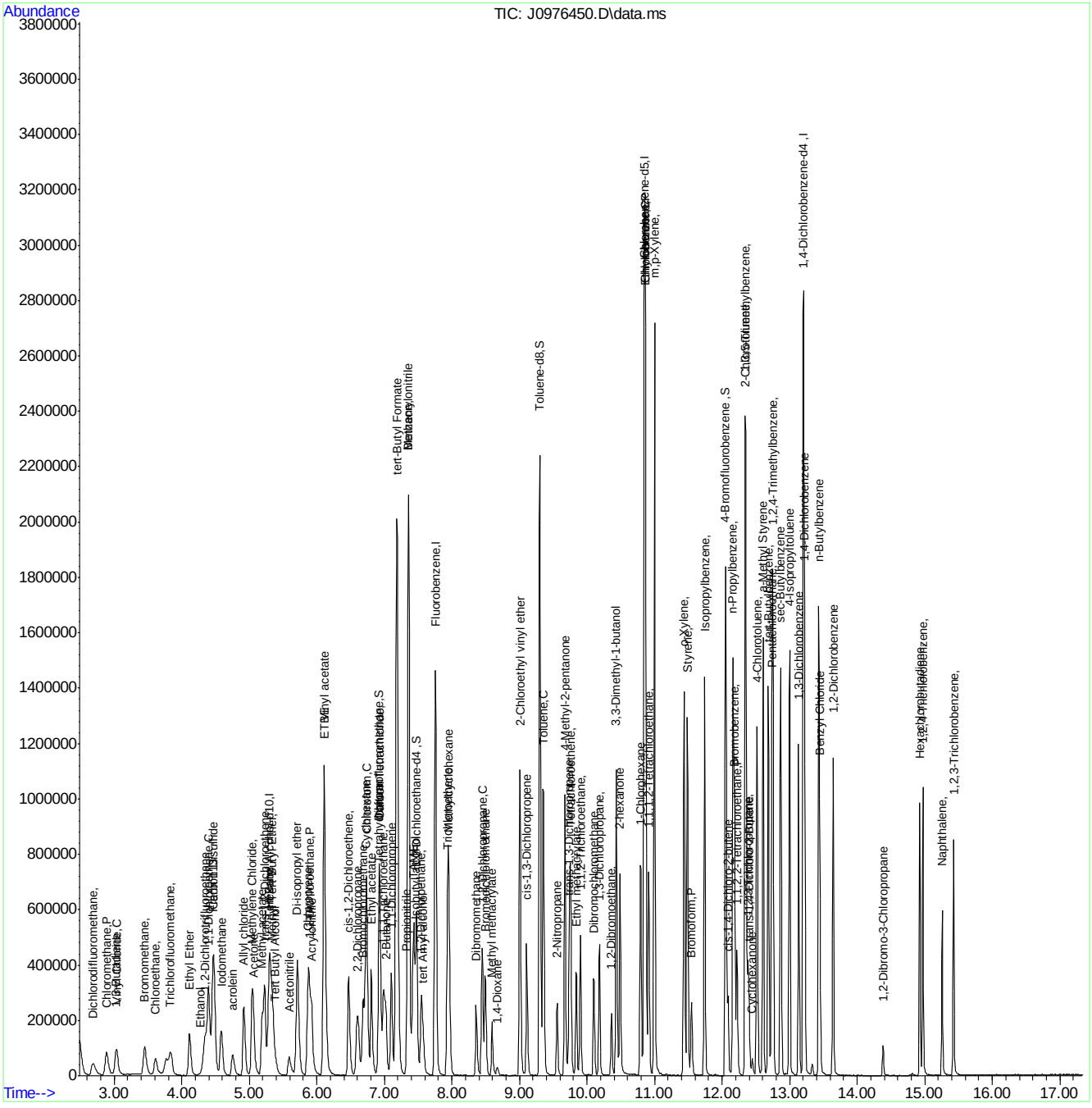


SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:51:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration










SGS ACCUTEST FA33878

# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | VJ5295-IC5295 | **Method:** | SW846 8260B |
| **Lab FileID:** | J0976450.D | **Analyst approved:** | 05/13/16 07:53 Darshna Patel |
| **Injection Time:** | 05/12/16 11:29 | **Supervisor approved:** | 05/13/16 11:32 Melissa Mangual |

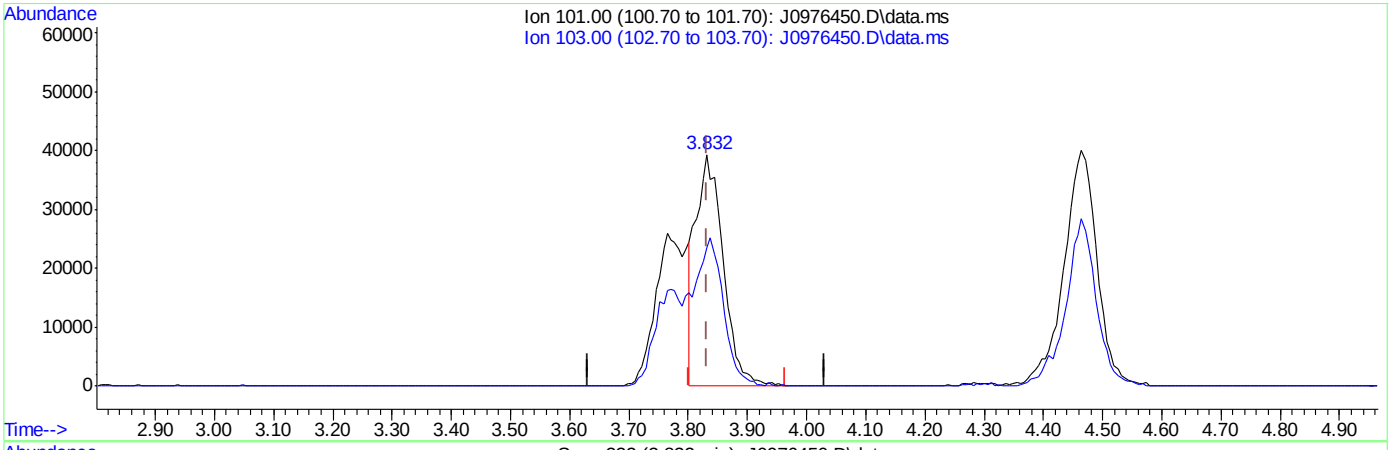
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichlorofluoromethane | 75-69-4 | | 3.83 | Split peak |
| Ethyl Alcohol | 64-17-5 | | 4.28 | Poor instrument integration |
| Carbon Tetrachloride | 56-23-5 | | 6.93 | Overlapping peak |

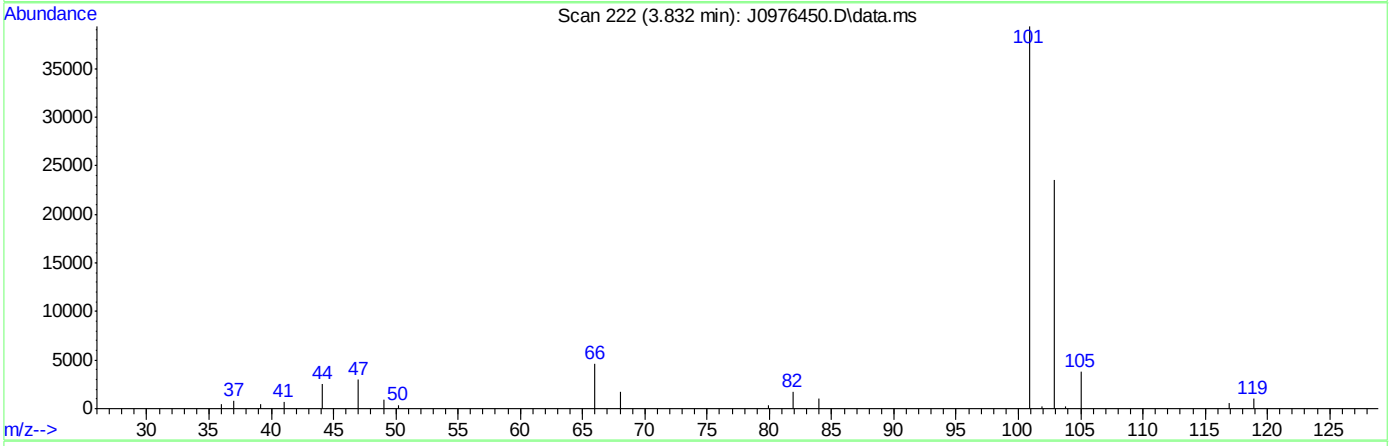
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:31:14 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976450.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 11.03ug/L

response 127210

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 63.50 | 59.87 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



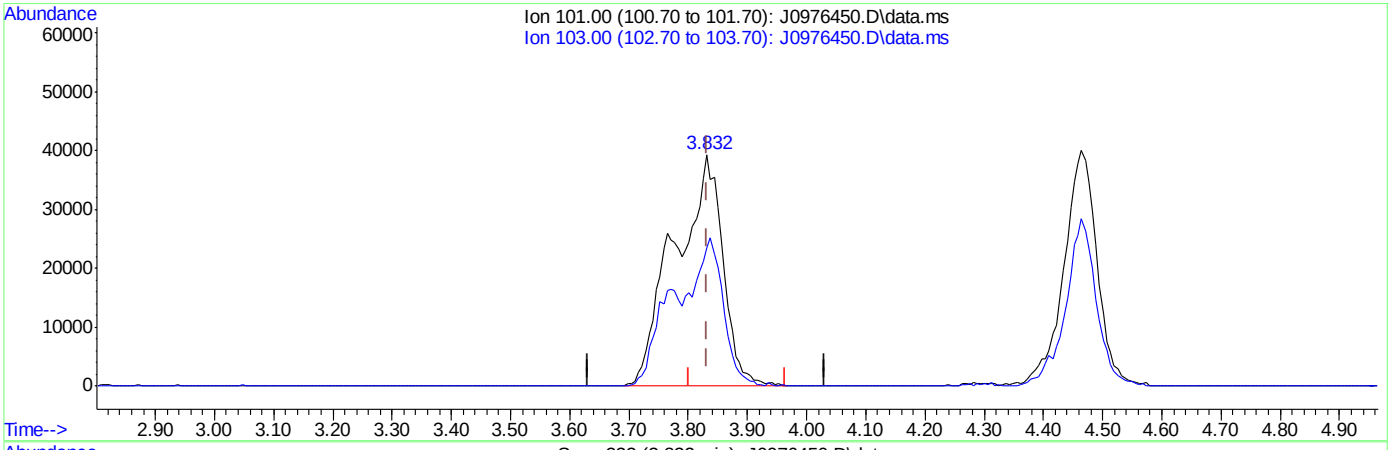
SGS ACCUTEST FA33878

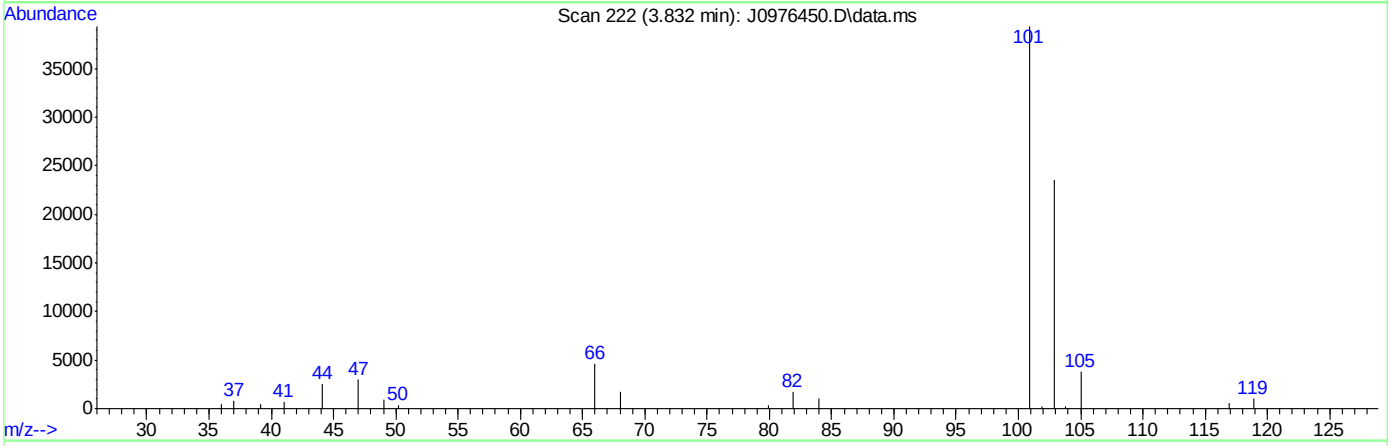
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:31:14 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976450.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 19.26ug/L m

response 222044

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 63.50 | 59.87 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

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Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
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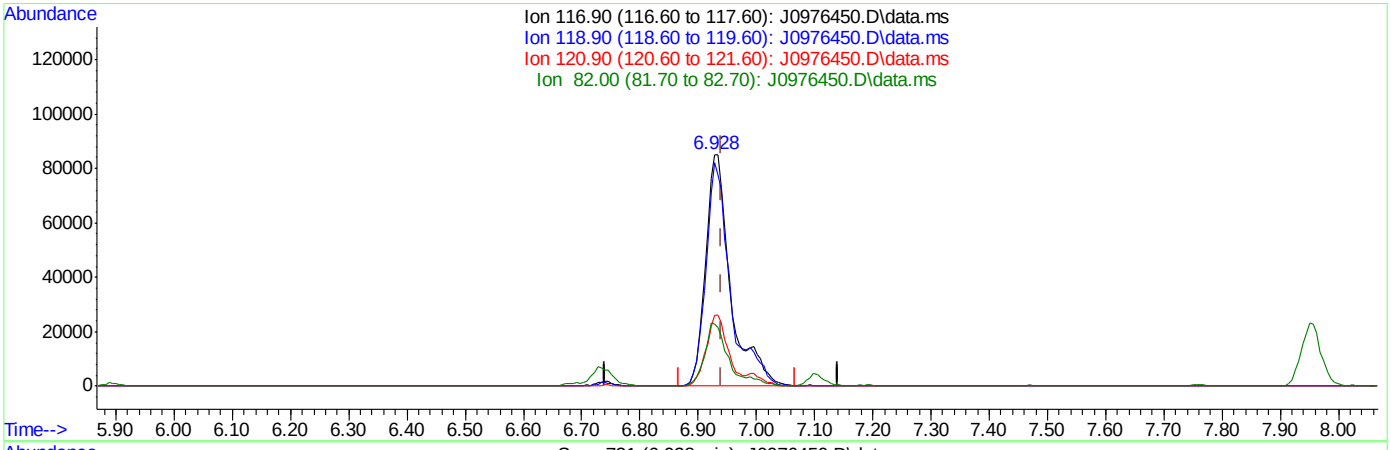
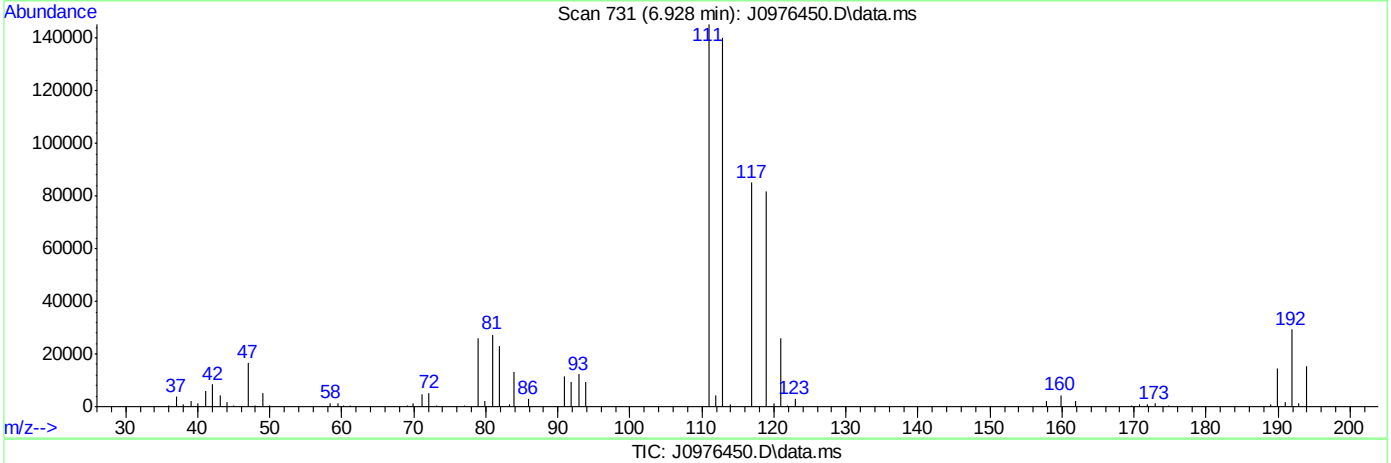



TIC: J0976450.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.013) 27.69ug/L

response 257526

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 96.80 | 96.26 |
| 120.90 | 31.80 | 30.75 |
| 82.00 | 25.40 | 26.95 |



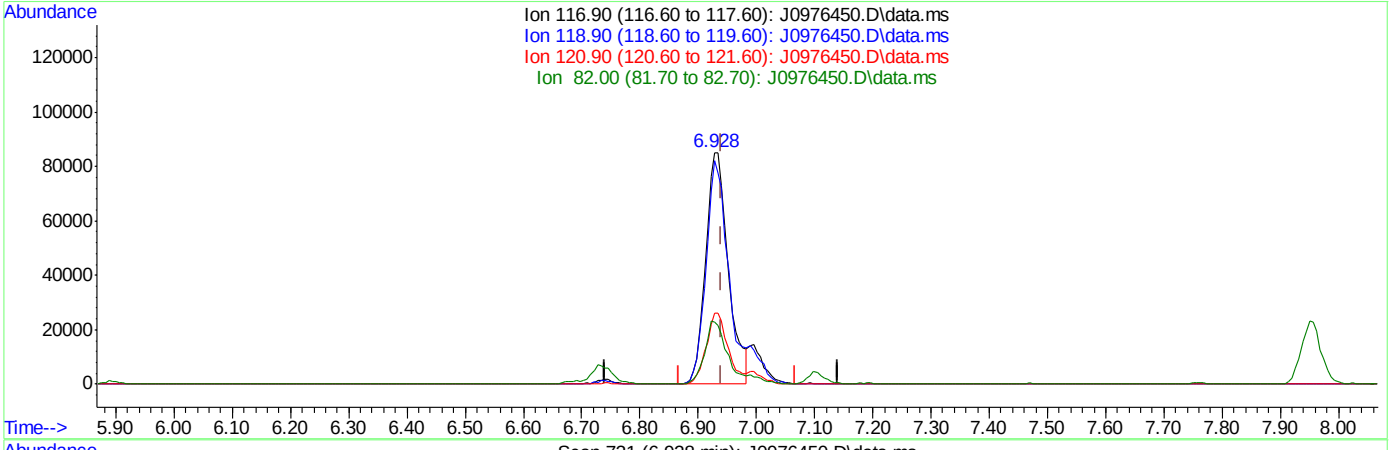
SGS ACCUTEST FA33878

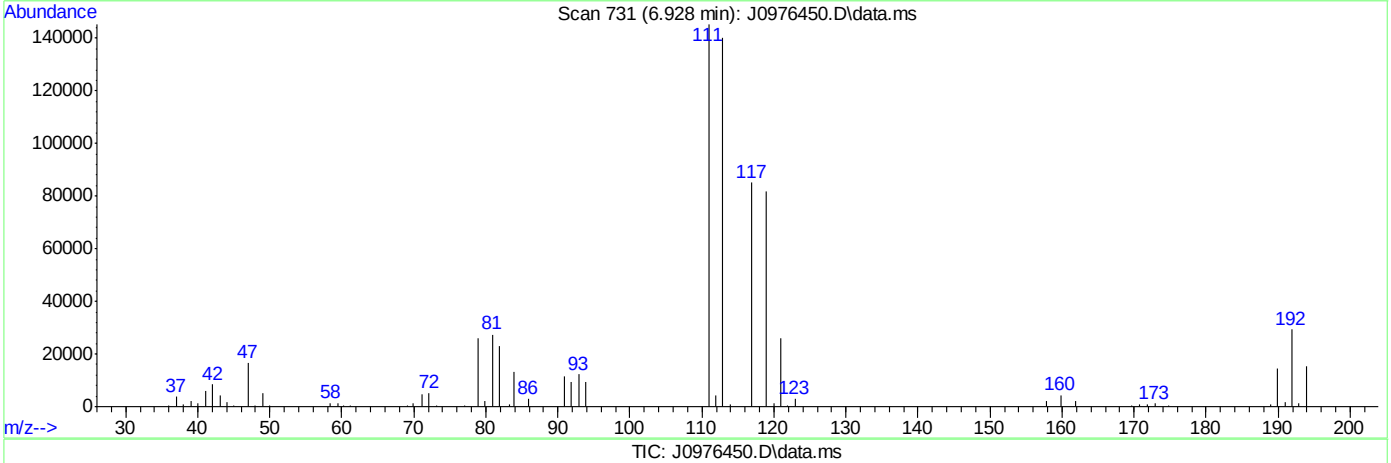
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:31:14 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976450.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.013) 24.94ug/L m

response 231974

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 96.80 | 96.26 |
| 120.90 | 31.80 | 30.75 |
| 82.00 | 25.40 | 26.95 |



SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
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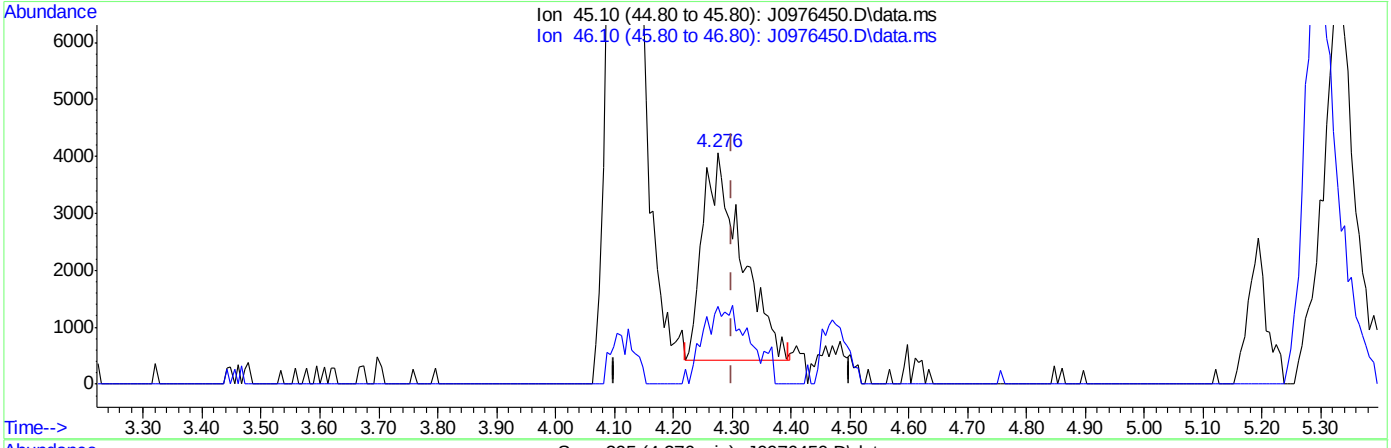
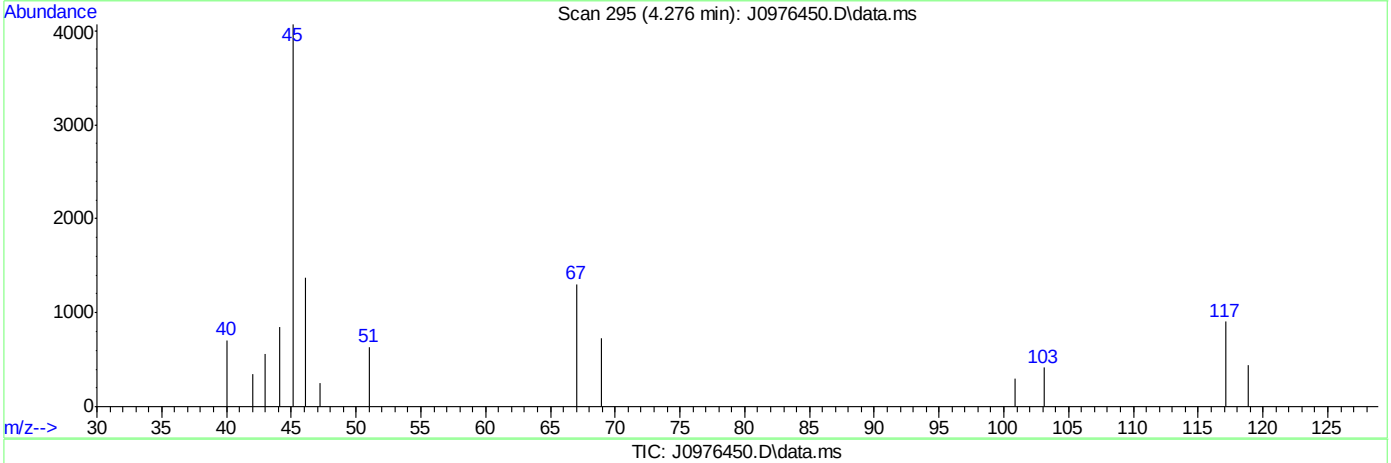
Quant Time: May 12 14:31:14 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976450.D\data.ms

(107) Ethanol

4.276min (-0.024) 452.15ug/L

response 16749

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 28.20 | 37.51 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



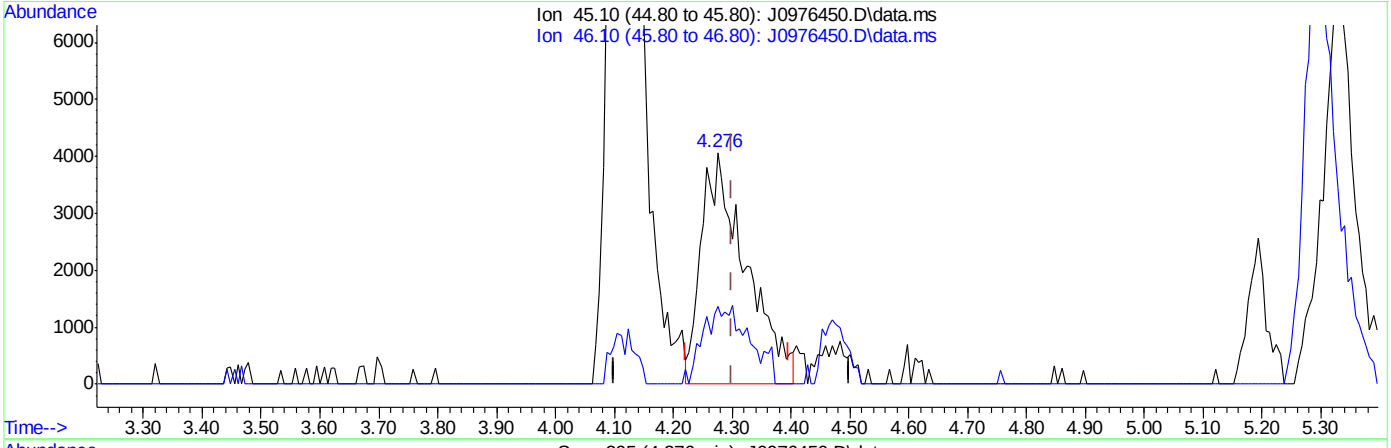
SGS ACCUTEST FA33878

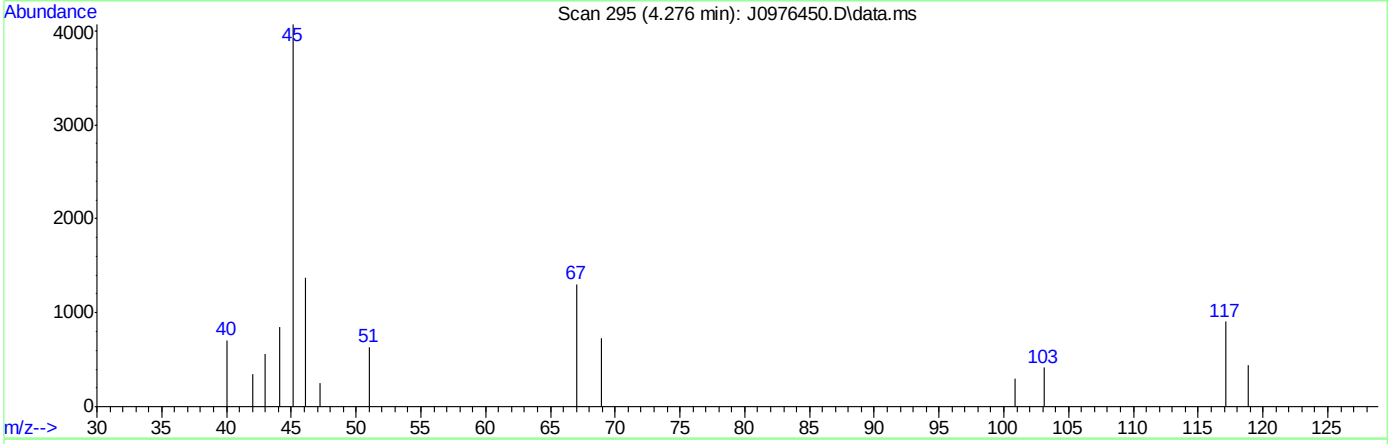
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976450.D
Acq On : 12 May 2016 11:29 am
Operator : darshnap
Sample : ic5295-4 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 12 14:31:14 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976450.D\data.ms

(107) Ethanol

4.276min (-0.024) 575.60ug/L m

response 21322

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 28.20 | 33.70 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:52:04 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1404396 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 1101438 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.207 | 152 | 623205 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.298 | 65 | 87230 | 250.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 36) Dibromofluoromethane | 6.928 | 113 | 343111 | 47.80 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 95.60% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 399943 | 46.13 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 92.26% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1395225 | 47.87 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 95.74% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 570899 | 47.70 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 95.40% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.688 | 85 | 215473 | 22.95 | ug/L | 97 |
| 3) Chloromethane | 2.895 | 50 | 292950 | 32.05 | ug/L | 99 |
| 4) Vinyl Chloride | 3.047 | 62 | 305445 | 31.72 | ug/L | 97 |
| 5) 1,3-Butadiene | 3.023 | 54 | 6376 | 0.82 | ug/L | 89 |
| 6) Bromomethane | 3.461 | 94 | 188477 | 33.11 | ug/L | 98 |
| 7) Chloroethane | 3.619 | 64 | 132032 | 27.42 | ug/L | 97 |
| 8) Trichlorofluoromethane | 3.844 | 101 | 394494m | 31.98 | ug/L | |
| 9) Ethyl Ether | 4.118 | 59 | 229998 | 39.46 | ug/L | 96 |
| 10) 1,2-Dichlorotrifluoroe... | 4.361 | 67 | 330633 | 40.10 | ug/L | 98 |
| 11) 1,1-Dichloroethene | 4.398 | 61 | 422249 | 40.56 | ug/L | 97 |
| 12) Freon 113 | 4.464 | 101 | 290175 | 41.73 | ug/L | 95 |
| 13) Carbon Disulfide | 4.477 | 76 | 962139 | 43.57 | ug/L | 97 |
| 14) Iodomethane | 4.586 | 142 | 477984 | 41.93 | ug/L | 99 |
| 15) Allyl chloride | 4.921 | 41 | 351145 | 35.83 | ug/L | 98 |
| 16) Methylene Chloride | 5.042 | 49 | 378948 | 40.65 | ug/L | 98 |
| 17) Acetone | 5.067 | 58 | 86685 | 216.11 | ug/L | 93 |
| 18) Methyl acetate | 5.194 | 74 | 162805 | 196.07 | ug/L | 97 |
| 19) trans-1,2-Dichloroethene | 5.225 | 61 | 383412 | 37.83 | ug/L | 98 |
| 20) Hexane | 5.298 | 56 | 258553 | 40.99 | ug/L | 97 |
| 21) Methyl Tert Butyl Ether | 5.340 | 73 | 806322 | 42.56 | ug/L | 78 |
| 22) Acetonitrile | 5.590 | 40 | 99685 | 347.56 | ug/L | 94 |
| 23) Di-isopropyl ether | 5.718 | 45 | 902917 | 41.36 | ug/L | 97 |
| 24) Chloroprene | 5.870 | 53 | 376030 | 34.97 | ug/L | 100 |
| 25) 1,1-Dichloroethane | 5.894 | 63 | 524710 | 39.95 | ug/L | 96 |
| 26) Acrylonitrile | 5.925 | 53 | 359130 | 197.28 | ug/L | 100 |
| 27) ETBE | 6.119 | 59 | 967040 | 44.24 | ug/L | 99 |
| 28) Vinyl acetate | 6.107 | 43 | 2222795 | 203.40 | ug/L | 99 |
| 29) cis-1,2-Dichloroethene | 6.472 | 96 | 335718 | 40.07 | ug/L | 96 |
| 30) 2,2-Dichloropropane | 6.606 | 77 | 419870 | 42.60 | ug/L | 97 |
| 31) Bromochloromethane | 6.685 | 128 | 156462 | 40.22 | ug/L | 97 |
| 32) Cyclohexane | 6.734 | 56 | 507615 | 43.28 | ug/L | 97 |
| 33) Chloroform | 6.740 | 83 | 575133 | 40.11 | ug/L | 97 |
| 34) Ethyl acetate | 6.807 | 43 | 781067 | 178.95 | ug/L | 99 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:52:04 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) Tetrahydrofuran | 6.922 | 42 | 48217 | 38.19 ug/L | 97 |
| 37) Carbon Tetrachloride | 6.934 | 117 | 426841m | 42.90 ug/L | |
| 38) 1,1,1-Trichloroethane | 6.995 | 97 | 490967 | 40.69 ug/L | 95 |
| 39) 2-Butanone | 7.026 | 43 | 374672 | 196.06 ug/L | 100 |
| 40) 1,1-Dichloropropene | 7.105 | 75 | 393020 | 39.33 ug/L | 99 |
| 41) tert-Butyl Formate | 7.190 | 59 | 1891187 | 426.52 ug/L | 99 |
| 42) Propionitrile | 7.336 | 54 | 243730 | 366.99 ug/L | 94 |
| 43) Methacrylonitrile | 7.360 | 41 | 1023305 | 344.83 ug/L | 97 |
| 44) Benzene | 7.360 | 78 | 1268206 | 41.66 ug/L | 94 |
| 45) TAME | 7.433 | 73 | 890217 | 46.19 ug/L | 95 |
| 47) 1,2-Dichloroethane | 7.549 | 62 | 403460 | 38.39 ug/L | 99 |
| 48) Trichloroethene | 7.932 | 95 | 318398 | 39.66 ug/L | 95 |
| 49) Methylcyclohexane | 7.956 | 83 | 568976 | 44.90 ug/L | 98 |
| 50) Dibromomethane | 8.358 | 93 | 176109 | 42.16 ug/L | 98 |
| 51) 1,2-Dichloropropane | 8.449 | 63 | 311497 | 41.59 ug/L | 97 |
| 52) Bromodichloromethane | 8.492 | 83 | 410208 | 42.51 ug/L | 99 |
| 53) Methyl methacrylate | 8.589 | 41 | 148289 | 36.78 ug/L | 99 |
| 54) 2-Chloroethyl vinyl ether | 9.009 | 63 | 730668 | 184.43 ug/L | 95 |
| 55) cis-1,3-Dichloropropene | 9.106 | 75 | 494265 | 45.41 ug/L | 99 |
| 58) Toluene | 9.356 | 91 | 1332415 | 40.53 ug/L | 99 |
| 59) 2-Nitropropane | 9.556 | 41 | 250079 | 186.24 ug/L | 97 |
| 60) 4-Methyl-2-pentanone | 9.672 | 43 | 988102 | 205.70 ug/L | 99 |
| 61) trans-1,3-Dichloropropene | 9.733 | 75 | 427934 | 45.14 ug/L | 95 |
| 62) Tetrachloroethene | 9.757 | 166 | 330707 | 35.28 ug/L | 97 |
| 63) Ethyl methacrylate | 9.836 | 69 | 293836 | 35.61 ug/L | 97 |
| 64) 1,1,2-Trichloroethane | 9.903 | 83 | 220918 | 40.78 ug/L | 97 |
| 65) Dibromochloromethane | 10.098 | 129 | 295867 | 42.06 ug/L | 98 |
| 66) 1,3-Dichloropropane | 10.183 | 76 | 444514 | 40.12 ug/L | 98 |
| 67) 1,2-Dibromoethane | 10.359 | 107 | 252389 | 42.74 ug/L | 96 |
| 68) 2-hexanone | 10.487 | 43 | 685166 | 209.70 ug/L | 99 |
| 69) 1-Chlorohexane | 10.797 | 91 | 422577 | 41.75 ug/L | 96 |
| 70) Ethylbenzene | 10.858 | 91 | 1554498 | 41.39 ug/L | 98 |
| 71) Chlorobenzene | 10.864 | 112 | 917204 | 42.20 ug/L | 99 |
| 72) 1,1,1,2-Tetrachloroethane | 10.913 | 131 | 310952 | 44.08 ug/L | 97 |
| 73) m,p-Xylene | 10.998 | 91 | 2343064 | 84.73 ug/L | 96 |
| 74) o-Xylene | 11.436 | 91 | 1252288 | 43.38 ug/L | 98 |
| 75) Styrene | 11.485 | 104 | 999003 | 46.81 ug/L | 99 |
| 76) Bromoform | 11.546 | 173 | 194584 | 48.65 ug/L | 98 |
| 77) Isopropylbenzene | 11.740 | 105 | 1477605 | 42.83 ug/L | 97 |
| 80) cis-1,4-Dichloro-2-butene | 12.087 | 53 | 77885 | 47.63 ug/L | 97 |
| 81) n-Propylbenzene | 12.160 | 91 | 1795922 | 41.32 ug/L | 97 |
| 82) Bromobenzene | 12.185 | 156 | 413415 | 40.99 ug/L | 95 |
| 83) 1,1,2,2-Tetrachloroethane | 12.221 | 83 | 330492 | 44.71 ug/L | 97 |
| 84) 1,3,5-Trimethylbenzene | 12.343 | 105 | 1373393 | 42.44 ug/L | 99 |
| 85) 2-Chlorotoluene | 12.349 | 91 | 1283251 | 40.77 ug/L | 99 |
| 86) trans-1,4-Dichloro-2-B... | 12.397 | 53 | 79793 | 49.33 ug/L # | 86 |
| 87) 1,2,3-Trichloropropane | 12.385 | 110 | 85851 | 42.25 ug/L | 93 |
| 88) Cyclohexanone | 12.446 | 55 | 38392 | 309.95 ug/L | 92 |
| 89) 4-Chlorotoluene | 12.519 | 91 | 1192984 | 41.29 ug/L | 98 |
| 90) a-Methyl Styrene | 12.604 | 118 | 676651 | 74.89 ug/L | 99 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:52:04 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) tert-Butylbenzene | 12.683 | 91 | 758504 | 39.76 | ug/L | 98 |
| 92) 1,2,4-Trimethylbenzene | 12.750 | 105 | 1365433 | 42.14 | ug/L | 99 |
| 93) Pentachloroethane | 12.738 | 167 | 243976 | 49.18 | ug/L | 96 |
| 94) sec-Butylbenzene | 12.866 | 105 | 1631628 | 42.32 | ug/L | 99 |
| 95) 4-Isopropyltoluene | 13.000 | 119 | 1403972 | 43.71 | ug/L | 98 |
| 96) 1,3-Dichlorobenzene | 13.134 | 146 | 732917 | 42.44 | ug/L | 98 |
| 97) 1,4-Dichlorobenzene | 13.219 | 146 | 749462 | 40.88 | ug/L | 97 |
| 98) n-Butylbenzene | 13.432 | 92 | 796614 | 43.30 | ug/L | 98 |
| 99) Benzyl Chloride | 13.450 | 126 | 125958 | 53.86 | ug/L # | 59 |
| 100) 1,2-Dichlorobenzene | 13.645 | 146 | 682272 | 43.48 | ug/L | 98 |
| 101) 1,2-Dibromo-3-Chloropr... | 14.381 | 75 | 44962 | 64.76 | ug/L | 94 |
| 102) Hexachlorobutadiene | 14.928 | 225 | 296699 | 56.22 | ug/L | 97 |
| 103) 1,2,4-Trichlorobenzene | 14.971 | 180 | 471325 | 74.71 | ug/L | 98 |
| 104) Naphthalene | 15.257 | 128 | 693290 | 80.23 | ug/L | 100 |
| 105) 1,2,3-Trichlorobenzene | 15.427 | 180 | 396112 | 86.86 | ug/L | 97 |
| 107) Ethanol | 4.276 | 45 | 35826m | 946.98 | ug/L | |
| 108) acrolein | 4.756 | 56 | 164096 | 170.61 | ug/L | 95 |
| 109) Tert Butyl Alcohol | 5.377 | 59 | 179413 | 442.80 | ug/L | 95 |
| 110) tert Amyl alcohol | 7.573 | 59 | 145429 | 481.13 | ug/L | 97 |
| 111) Isobutyl alcohol | 7.451 | 42 | 121838 | 782.17 | ug/L | 88 |
| 112) 1,4-Dioxane | 8.674 | 88 | 39973 | 1034.84 | ug/L | 93 |
| 113) 3,3-Dimethyl-1-butanol | 10.432 | 57 | 778241 | 2149.13 | ug/L | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.14

7

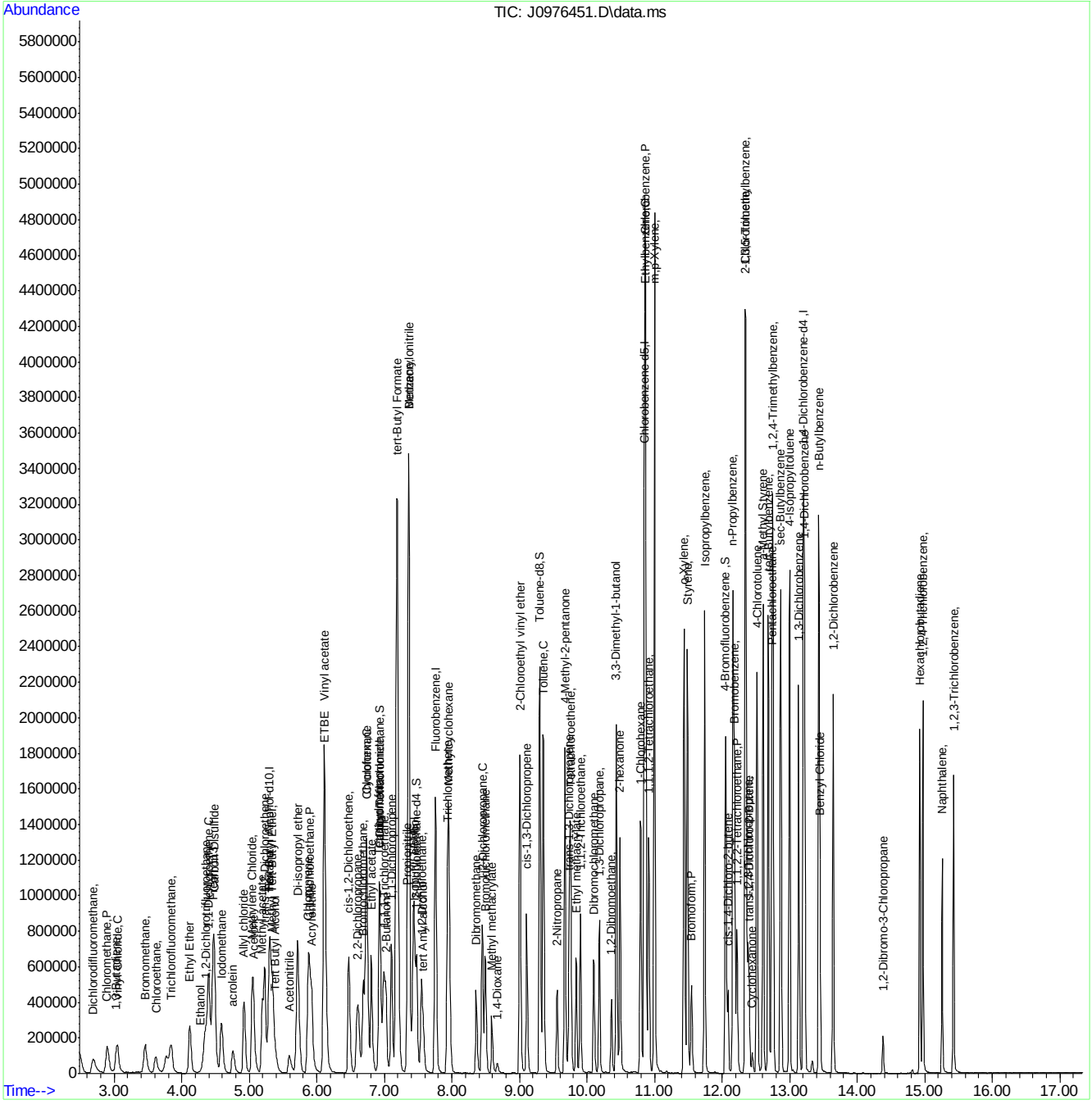


SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:52:04 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration




MSJ051216a.M Fri May 13 07:49:45 2016 Page: 4

# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | VJ5295-ICC5295 | **Method:** | SW846 8260B |
| **Lab FileID:** | J0976451.D | **Analyst approved:** | 05/13/16 07:53 Darshna Patel |
| **Injection Time:** | 05/12/16 11:51 | **Supervisor approved:** | 05/13/16 11:32 Melissa Mangual |

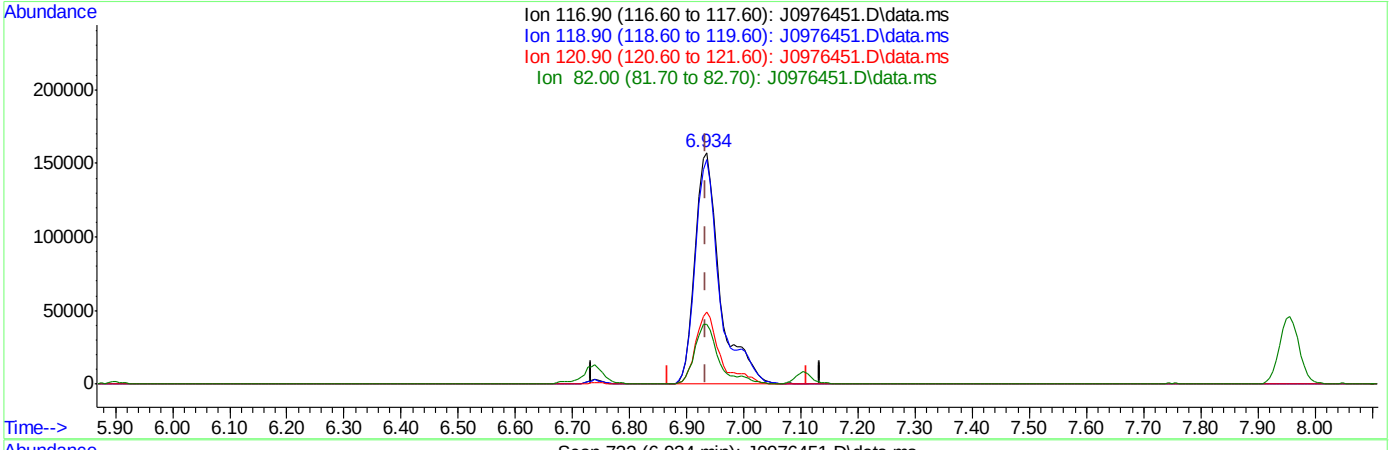
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichlorofluoromethane | 75-69-4 | | 3.84 | Split peak |
| Ethyl Alcohol | 64-17-5 | | 4.28 | Poor instrument integration |
| Carbon Tetrachloride | 56-23-5 | | 6.93 | Overlapping peak |

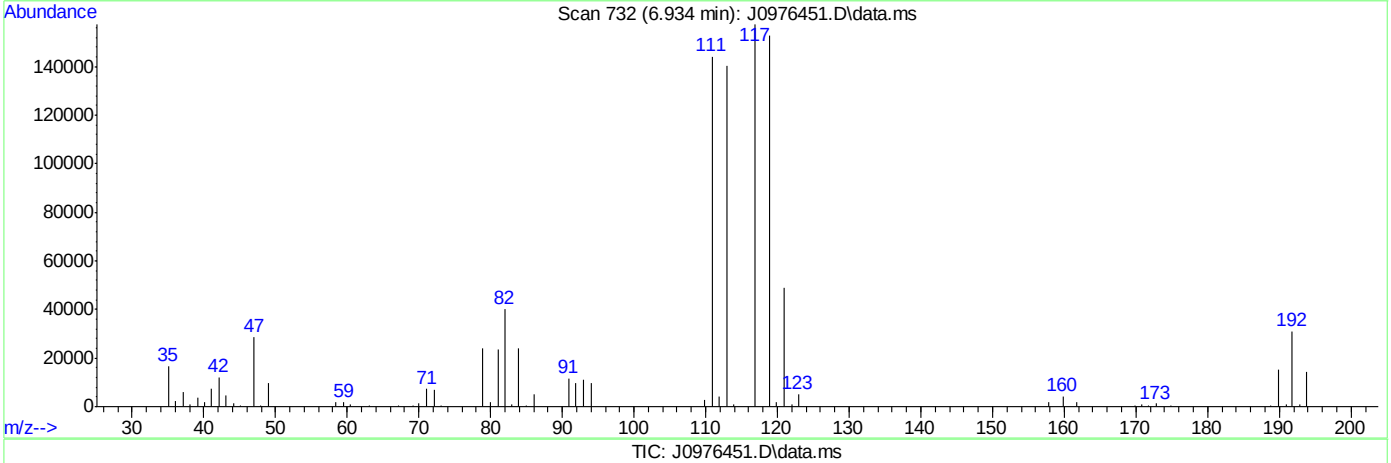
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 12:34:52 2016
Quant Method : C:\msdchem\2\methods\MSJ051216.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration






TIC: J0976451.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 49.51ug/L

response 476384

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 96.80 | 97.07 |
| 120.90 | 31.80 | 31.19 |
| 82.00 | 25.40 | 25.66 |



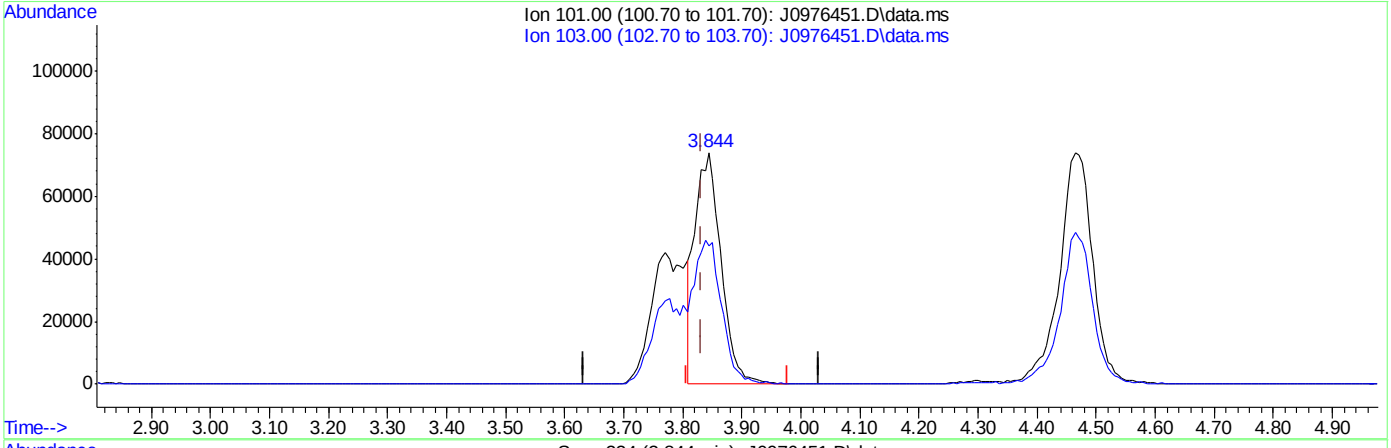
SGS ACCUTEST FA33878

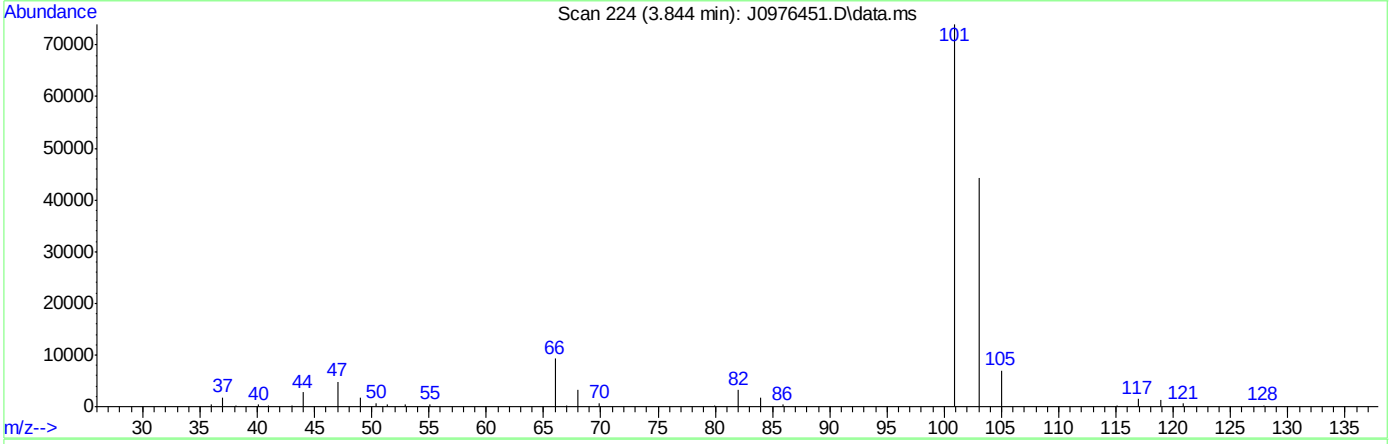
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:31:17 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976451.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.012) 18.49ug/L

response 228067

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 63.50 | 59.74 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



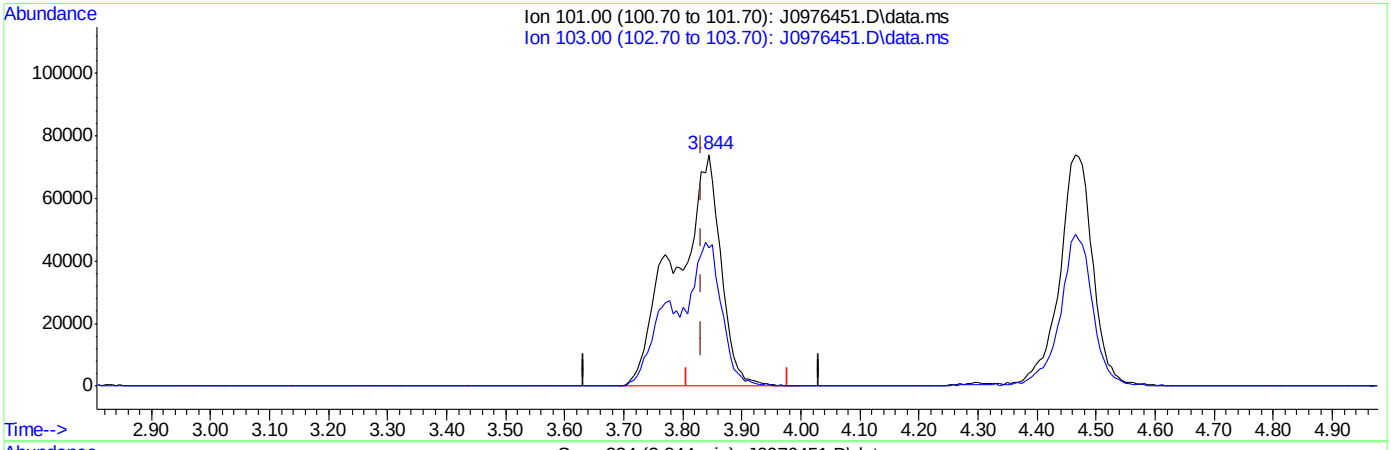
SGS ACCUTEST FA33878

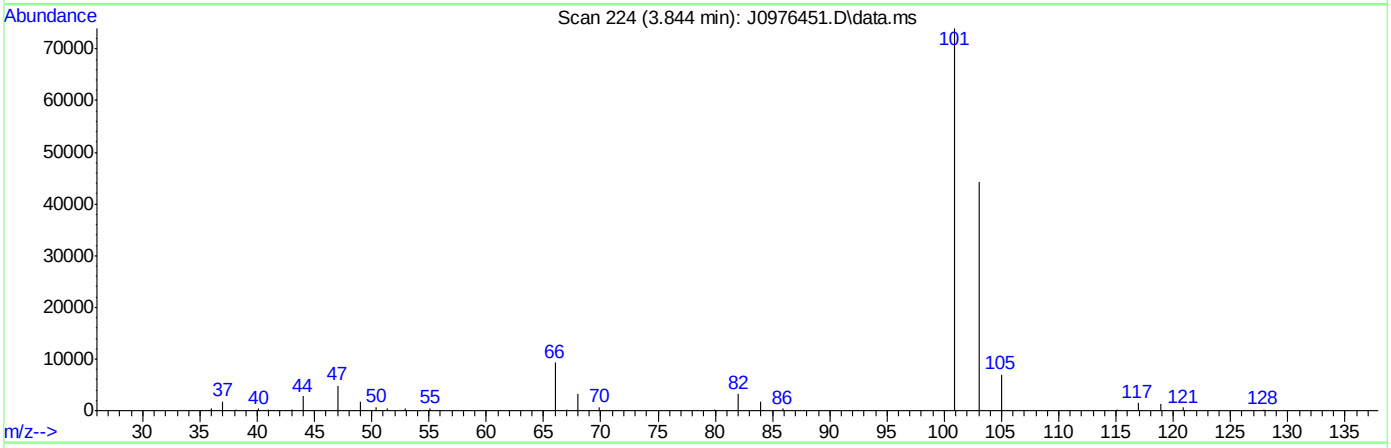
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:31:17 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976451.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.012) 31.98ug/L m

response 394494

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 63.50 | 59.74 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



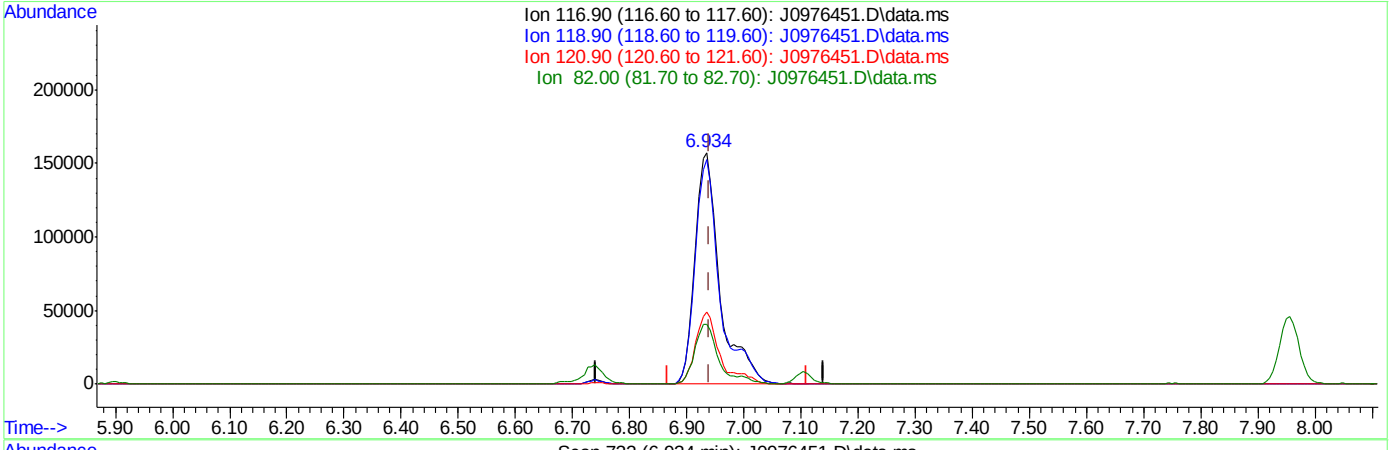
SGS ACCUTEST FA33878

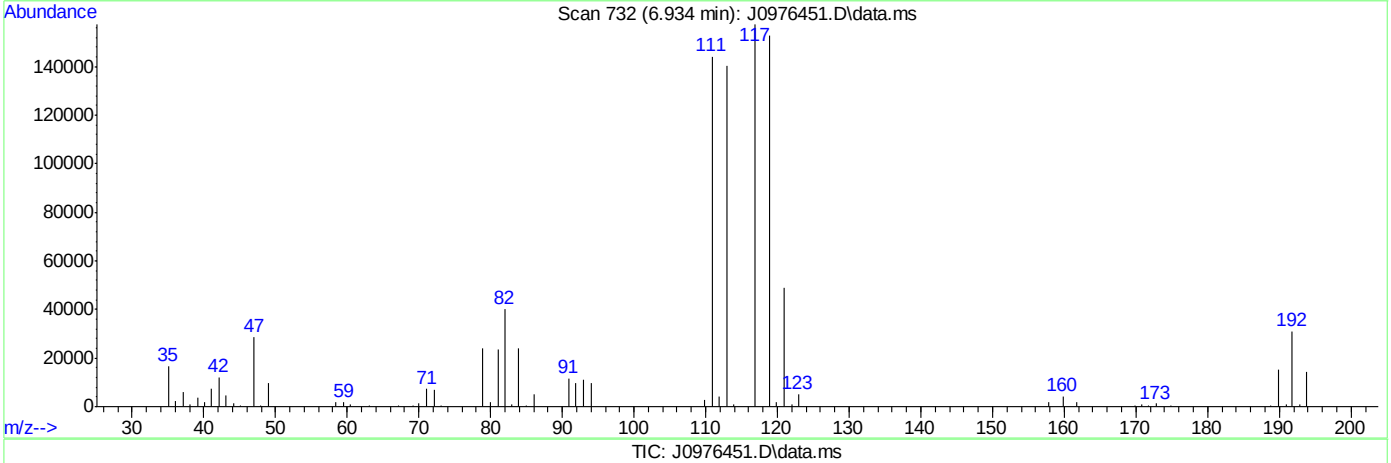
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:31:17 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976451.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 47.88ug/L

response 476384

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 96.80 | 97.07 |
| 120.90 | 31.80 | 31.19 |
| 82.00 | 25.40 | 25.66 |



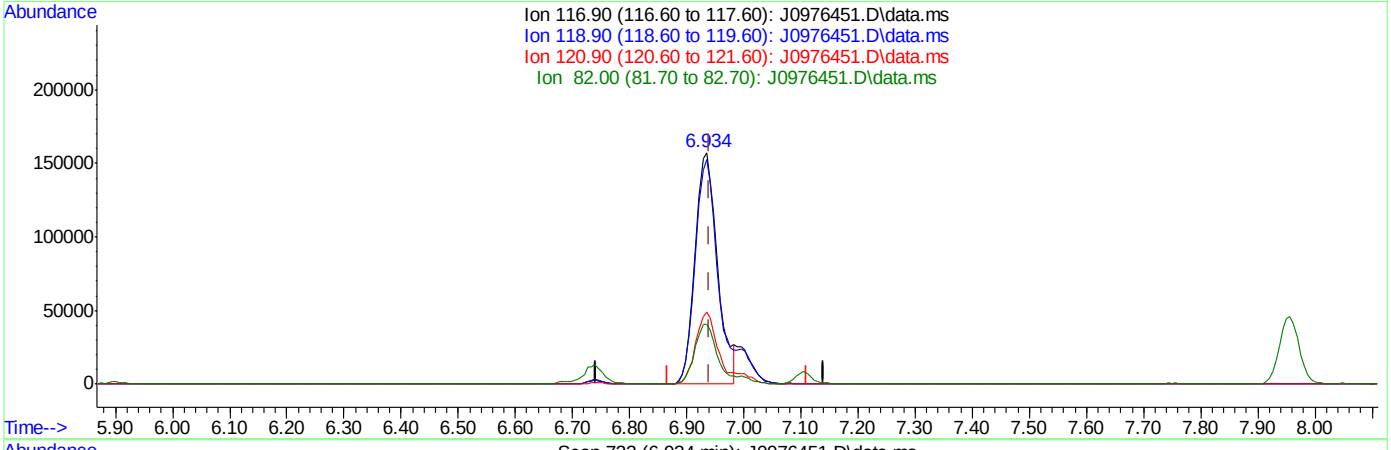
SGS ACCUTEST FA33878

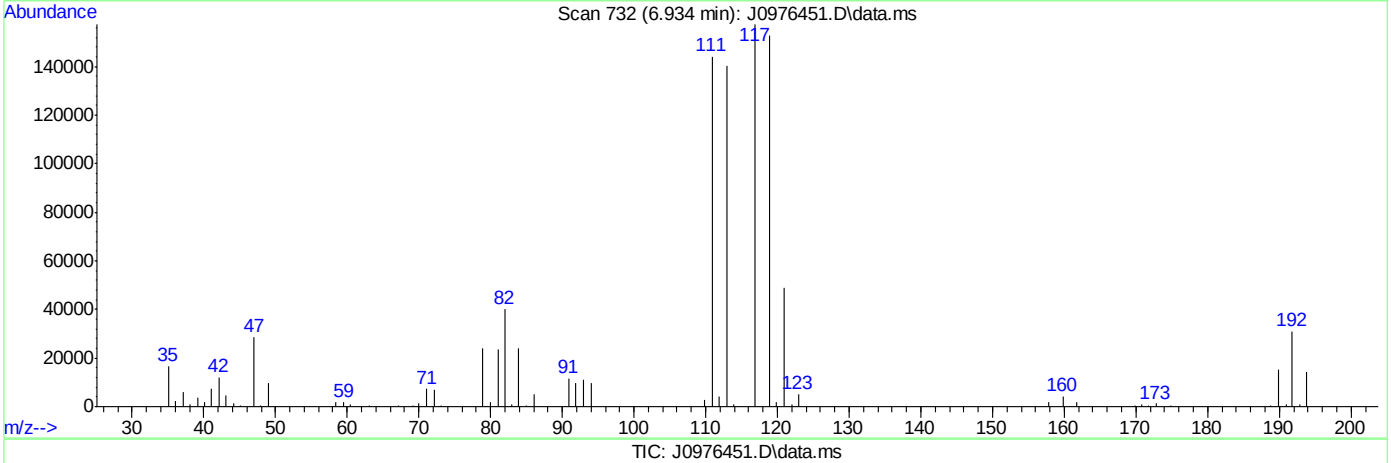
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:31:17 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976451.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 42.90ug/L m

response 426841

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 96.80 | 97.07 |
| 120.90 | 31.80 | 31.19 |
| 82.00 | 25.40 | 25.66 |



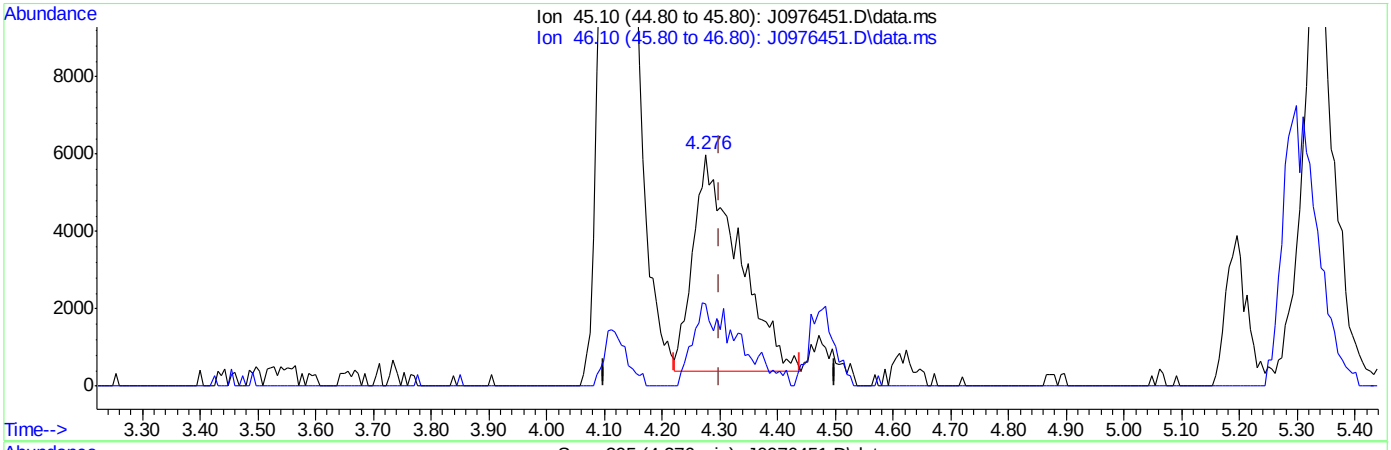
SGS ACCUTEST FA33878

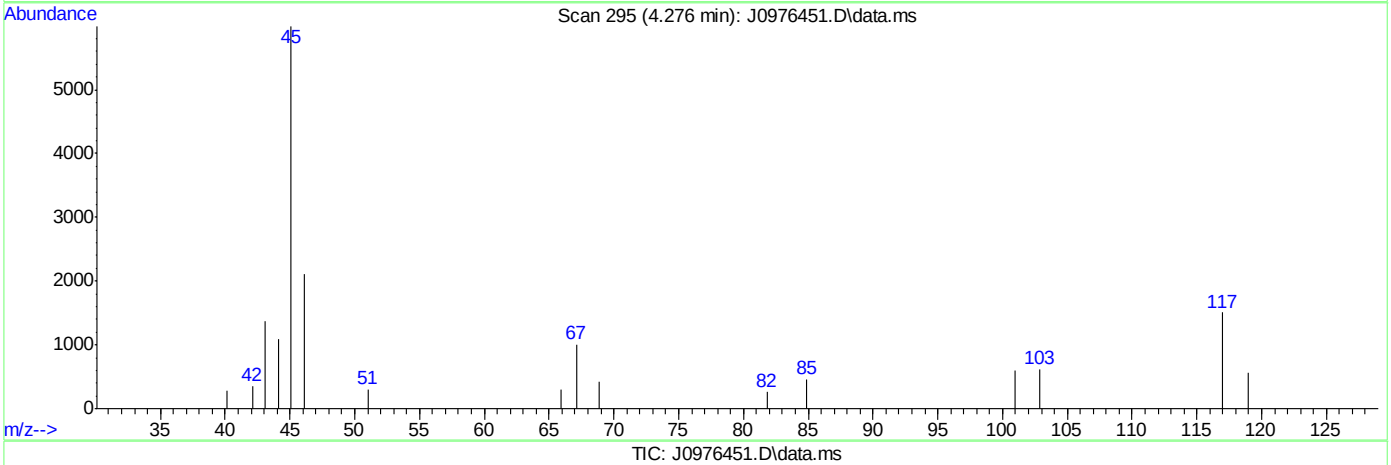
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:31:17 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976451.D\data.ms

(107) Ethanol

4.276min (-0.024) 810.11ug/L

response 30648

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 28.20 | 37.76 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



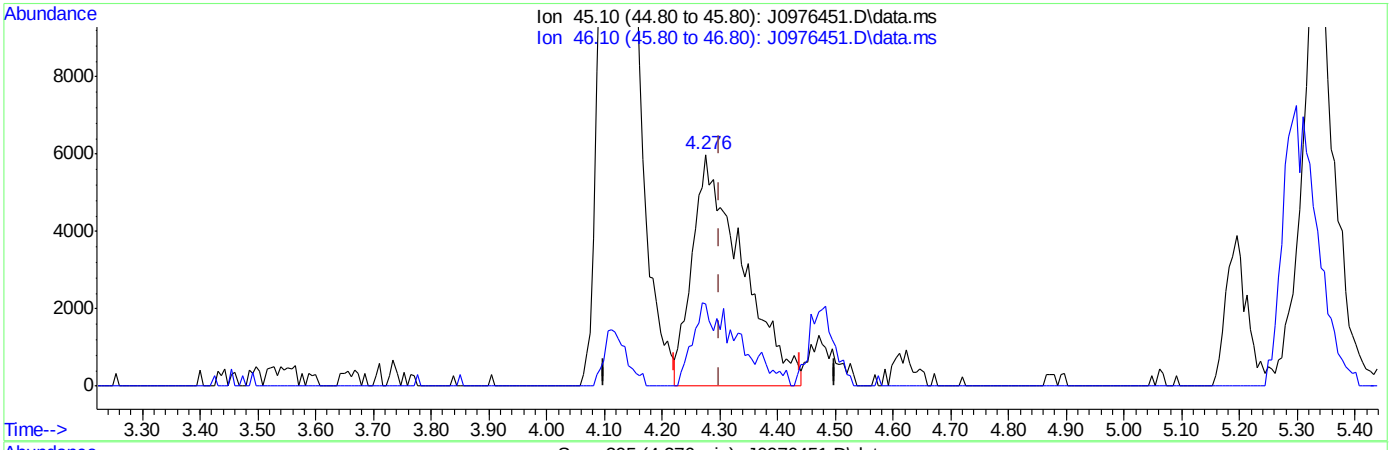
SGS ACCUTEST FA33878

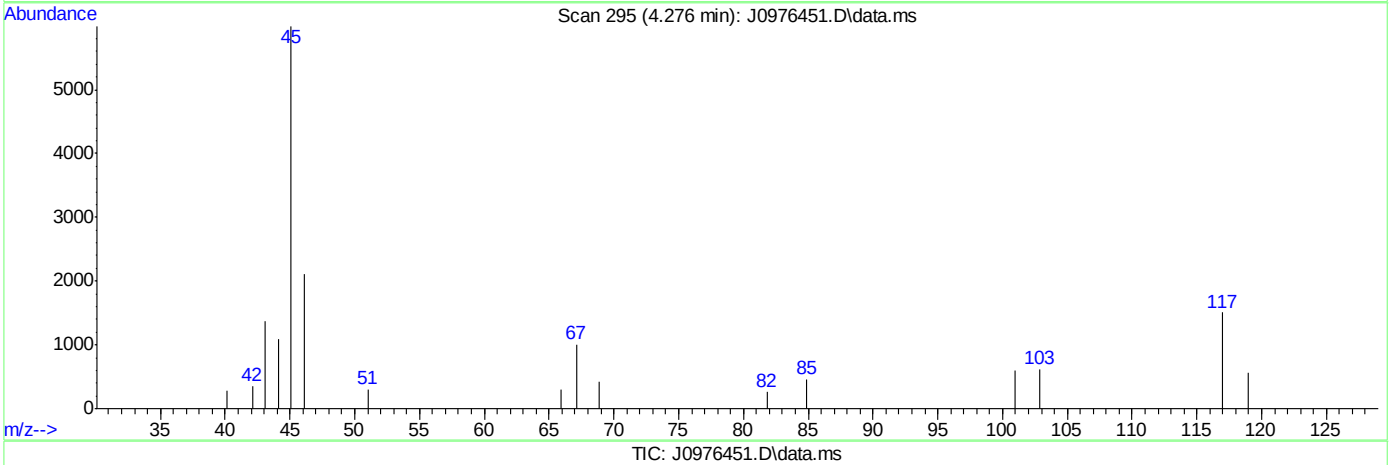
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976451.D
Acq On : 12 May 2016 11:51 am
Operator : darshnap
Sample : icc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 12 14:31:17 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976451.D\data.ms

(107) Ethanol

4.276min (-0.024) 946.98ug/L m

response 35826

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 28.20 | 35.27 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:52:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1481870 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 1167051 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.207 | 152 | 662174 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.304 | 65 | 98159 | 250.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 36) Dibromofluoromethane | 6.928 | 113 | 363868 | 48.05 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 96.10% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.482 | 65 | 415939 | 45.46 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 90.92% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1469389 | 47.58 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 95.16% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 601037 | 47.27 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 94.54% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.694 | 85 | 446025 | 45.02 | ug/L | 99 |
| 3) Chloromethane | 2.907 | 50 | 560774 | 58.77 | ug/L | 98 |
| 4) Vinyl Chloride | 3.053 | 62 | 607558 | 59.80 | ug/L | 100 |
| 5) 1,3-Butadiene | 3.029 | 54 | 9567 | 1.17 | ug/L # | 62 |
| 6) Bromomethane | 3.461 | 94 | 306103 | 56.35 | ug/L | 95 |
| 7) Chloroethane | 3.619 | 64 | 186526 | 38.84 | ug/L | 98 |
| 8) Trichlorofluoromethane | 3.838 | 101 | 802730m | 61.68 | ug/L | |
| 9) Ethyl Ether | 4.118 | 59 | 404076 | 65.70 | ug/L | 96 |
| 10) 1,2-Dichlorotrifluoroe... | 4.355 | 67 | 589815 | 67.80 | ug/L | 99 |
| 11) 1,1-Dichloroethene | 4.398 | 61 | 779369 | 70.94 | ug/L | 96 |
| 12) Freon 113 | 4.471 | 101 | 539624 | 73.55 | ug/L | 98 |
| 13) Carbon Disulfide | 4.477 | 76 | 1761891 | 75.62 | ug/L | 99 |
| 14) Iodomethane | 4.586 | 142 | 867396 | 72.11 | ug/L | 100 |
| 15) Allyl chloride | 4.921 | 41 | 705792 | 68.24 | ug/L | 97 |
| 16) Methylene Chloride | 5.048 | 49 | 670099 | 69.53 | ug/L | 94 |
| 17) Acetone | 5.073 | 58 | 151070 | 352.29 | ug/L | 96 |
| 18) Methyl acetate | 5.194 | 74 | 301967 | 344.65 | ug/L | 94 |
| 19) trans-1,2-Dichloroethene | 5.231 | 61 | 720791 | 67.40 | ug/L | 99 |
| 20) Hexane | 5.298 | 56 | 481361 | 72.32 | ug/L | 97 |
| 21) Methyl Tert Butyl Ether | 5.340 | 73 | 1446400 | 72.35 | ug/L | 79 |
| 22) Acetonitrile | 5.590 | 40 | 203464 | 695.64 | ug/L | 98 |
| 23) Di-isopropyl ether | 5.718 | 45 | 1631325 | 70.81 | ug/L | 99 |
| 24) Chloroprene | 5.870 | 53 | 755288 | 66.56 | ug/L | 97 |
| 25) 1,1-Dichloroethane | 5.900 | 63 | 946769 | 68.31 | ug/L | 98 |
| 26) Acrylonitrile | 5.925 | 53 | 663523 | 345.43 | ug/L | 96 |
| 27) ETBE | 6.119 | 59 | 1690833 | 73.31 | ug/L | 97 |
| 28) Vinyl acetate | 6.107 | 43 | 3826815 | 331.87 | ug/L | 99 |
| 29) cis-1,2-Dichloroethene | 6.472 | 96 | 629180 | 71.18 | ug/L | 97 |
| 30) 2,2-Dichloropropane | 6.606 | 77 | 786837 | 75.66 | ug/L | 97 |
| 31) Bromochloromethane | 6.685 | 128 | 288757 | 70.35 | ug/L | 97 |
| 32) Cyclohexane | 6.734 | 56 | 969850 | 78.36 | ug/L | 96 |
| 33) Chloroform | 6.740 | 83 | 1023711 | 67.66 | ug/L | 97 |
| 34) Ethyl acetate | 6.807 | 43 | 1436457 | 311.89 | ug/L | 98 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:52:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) Tetrahydrofuran | 6.916 | 42 | 88242 | 65.74 ug/L | 91 |
| 37) Carbon Tetrachloride | 6.934 | 117 | 799023m | 76.12 ug/L | |
| 38) 1,1,1-Trichloroethane | 6.995 | 97 | 917330 | 72.06 ug/L | 98 |
| 39) 2-Butanone | 7.026 | 43 | 659451 | 327.20 ug/L | 100 |
| 40) 1,1-Dichloropropene | 7.105 | 75 | 744820 | 70.63 ug/L | 98 |
| 41) tert-Butyl Formate | 7.190 | 59 | 3495989 | 744.01 ug/L | 97 |
| 42) Propionitrile | 7.336 | 54 | 472654 | 674.48 ug/L | 99 |
| 43) Methacrylonitrile | 7.360 | 41 | 1832335 | 615.65 ug/L | 95 |
| 44) Benzene | 7.360 | 78 | 2222784 | 69.19 ug/L | 96 |
| 45) TAME | 7.433 | 73 | 1566921 | 77.05 ug/L | 94 |
| 47) 1,2-Dichloroethane | 7.549 | 62 | 693522 | 62.55 ug/L | 97 |
| 48) Trichloroethene | 7.938 | 95 | 580119 | 68.47 ug/L | 98 |
| 49) Methylcyclohexane | 7.956 | 83 | 1074035 | 80.32 ug/L | 98 |
| 50) Dibromomethane | 8.358 | 93 | 312906 | 70.99 ug/L | 98 |
| 51) 1,2-Dichloropropane | 8.449 | 63 | 559766 | 70.82 ug/L | 97 |
| 52) Bromodichloromethane | 8.498 | 83 | 741408 | 72.82 ug/L | 99 |
| 53) Methyl methacrylate | 8.589 | 41 | 295085 | 69.36 ug/L | 96 |
| 54) 2-Chloroethyl vinyl ether | 9.009 | 63 | 1403378 | 342.66 ug/L | 96 |
| 55) cis-1,3-Dichloropropene | 9.112 | 75 | 882726 | 76.86 ug/L | 97 |
| 58) Toluene | 9.356 | 91 | 2341062 | 70.33 ug/L | 97 |
| 59) 2-Nitropropane | 9.556 | 41 | 428296 | 301.02 ug/L | 99 |
| 60) 4-Methyl-2-pentanone | 9.672 | 43 | 1637352 | 321.69 ug/L | 96 |
| 61) trans-1,3-Dichloropropene | 9.739 | 75 | 754779 | 75.13 ug/L | 99 |
| 62) Tetrachloroethene | 9.757 | 166 | 614633 | 61.88 ug/L | 98 |
| 63) Ethyl methacrylate | 9.836 | 69 | 589587 | 67.30 ug/L | 96 |
| 64) 1,1,2-Trichloroethane | 9.903 | 83 | 390246 | 67.99 ug/L | 97 |
| 65) Dibromochloromethane | 10.104 | 129 | 542258 | 72.09 ug/L | 99 |
| 66) 1,3-Dichloropropane | 10.183 | 76 | 787055 | 67.05 ug/L | 97 |
| 67) 1,2-Dibromoethane | 10.359 | 107 | 451849 | 72.22 ug/L | 99 |
| 68) 2-hexanone | 10.487 | 43 | 1154102 | 333.37 ug/L | 95 |
| 69) 1-Chlorohexane | 10.797 | 91 | 799233 | 74.52 ug/L | 90 |
| 70) Ethylbenzene | 10.864 | 91 | 2656813 | 71.40 ug/L | 93 |
| 71) Chlorobenzene | 10.864 | 112 | 1587555 | 70.19 ug/L | 99 |
| 72) 1,1,1,2-Tetrachloroethane | 10.913 | 131 | 552971 | 73.99 ug/L | 99 |
| 73) m,p-Xylene | 10.998 | 91 | 3808260 | 148.21 ug/L | 87 |
| 74) o-Xylene | 11.436 | 91 | 2169886 | 70.94 ug/L | 96 |
| 75) Styrene | 11.485 | 104 | 1764304 | 78.02 ug/L | 98 |
| 76) Bromoform | 11.546 | 173 | 354421 | 80.77 ug/L | 99 |
| 77) Isopropylbenzene | 11.740 | 105 | 2585930 | 74.76 ug/L | 95 |
| 80) cis-1,4-Dichloro-2-butene | 12.087 | 53 | 149076 | 85.81 ug/L | 92 |
| 81) n-Propylbenzene | 12.160 | 91 | 3022593 | 65.45 ug/L | 92 |
| 82) Bromobenzene | 12.185 | 156 | 734208 | 68.51 ug/L | 99 |
| 83) 1,1,2,2-Tetrachloroethane | 12.221 | 83 | 568821 | 72.42 ug/L | 98 |
| 84) 1,3,5-Trimethylbenzene | 12.343 | 105 | 2351610 | 68.39 ug/L | 95 |
| 85) 2-Chlorotoluene | 12.349 | 91 | 2160334 | 64.60 ug/L | 97 |
| 86) trans-1,4-Dichloro-2-B... | 12.397 | 53 | 139788 | 78.24 ug/L # | 84 |
| 87) 1,2,3-Trichloropropane | 12.379 | 110 | 151516 | 70.18 ug/L | 95 |
| 88) Cyclohexanone | 12.446 | 55 | 73414 | 557.82 ug/L | 92 |
| 89) 4-Chlorotoluene | 12.519 | 91 | 2043251 | 66.55 ug/L | 95 |
| 90) a-Methyl Styrene | 12.604 | 118 | 1343518 | 139.95 ug/L | 99 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:52:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) tert-Butylbenzene | 12.683 | 91 | 1345971 | 66.39 | ug/L | 99 |
| 92) 1,2,4-Trimethylbenzene | 12.750 | 105 | 2325918 | 67.55 | ug/L | 93 |
| 93) Pentachloroethane | 12.738 | 167 | 476717 | 83.94 | ug/L | 97 |
| 94) sec-Butylbenzene | 12.866 | 105 | 2815019 | 68.72 | ug/L | 95 |
| 95) 4-Isopropyltoluene | 13.000 | 119 | 2420392 | 70.92 | ug/L | 95 |
| 96) 1,3-Dichlorobenzene | 13.134 | 146 | 1296124 | 70.63 | ug/L | 98 |
| 97) 1,4-Dichlorobenzene | 13.219 | 146 | 1313026 | 67.40 | ug/L | 97 |
| 98) n-Butylbenzene | 13.432 | 92 | 1428526 | 73.08 | ug/L | 91 |
| 99) Benzyl Chloride | 13.444 | 126 | 218703 | 82.53 | ug/L # | 74 |
| 100) 1,2-Dichlorobenzene | 13.645 | 146 | 1192316 | 71.52 | ug/L | 97 |
| 101) 1,2-Dibromo-3-Chloropr... | 14.381 | 75 | 82362 | 104.60 | ug/L | 88 |
| 102) Hexachlorobutadiene | 14.928 | 225 | 556463 | 95.28 | ug/L | 96 |
| 103) 1,2,4-Trichlorobenzene | 14.971 | 180 | 856798 | 117.76 | ug/L | 99 |
| 104) Naphthalene | 15.257 | 128 | 1265144 | 120.55 | ug/L | 98 |
| 105) 1,2,3-Trichlorobenzene | 15.427 | 180 | 713895 | 129.15 | ug/L | 99 |
| 107) Ethanol | 4.288 | 45 | 65518m | 1539.00 | ug/L | |
| 108) acrolein | 4.756 | 56 | 315898 | 291.87 | ug/L | 89 |
| 109) Tert Butyl Alcohol | 5.389 | 59 | 325500 | 713.90 | ug/L | 86 |
| 110) tert Amyl alcohol | 7.573 | 59 | 264776 | 778.45 | ug/L | 96 |
| 111) Isobutyl alcohol | 7.458 | 42 | 218502 | 1307.69 | ug/L | 94 |
| 112) 1,4-Dioxane | 8.674 | 88 | 77498 | 1782.92 | ug/L | 94 |
| 113) 3,3-Dimethyl-1-butanol | 10.432 | 57 | 1468924 | 3416.98 | ug/L | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.15

7

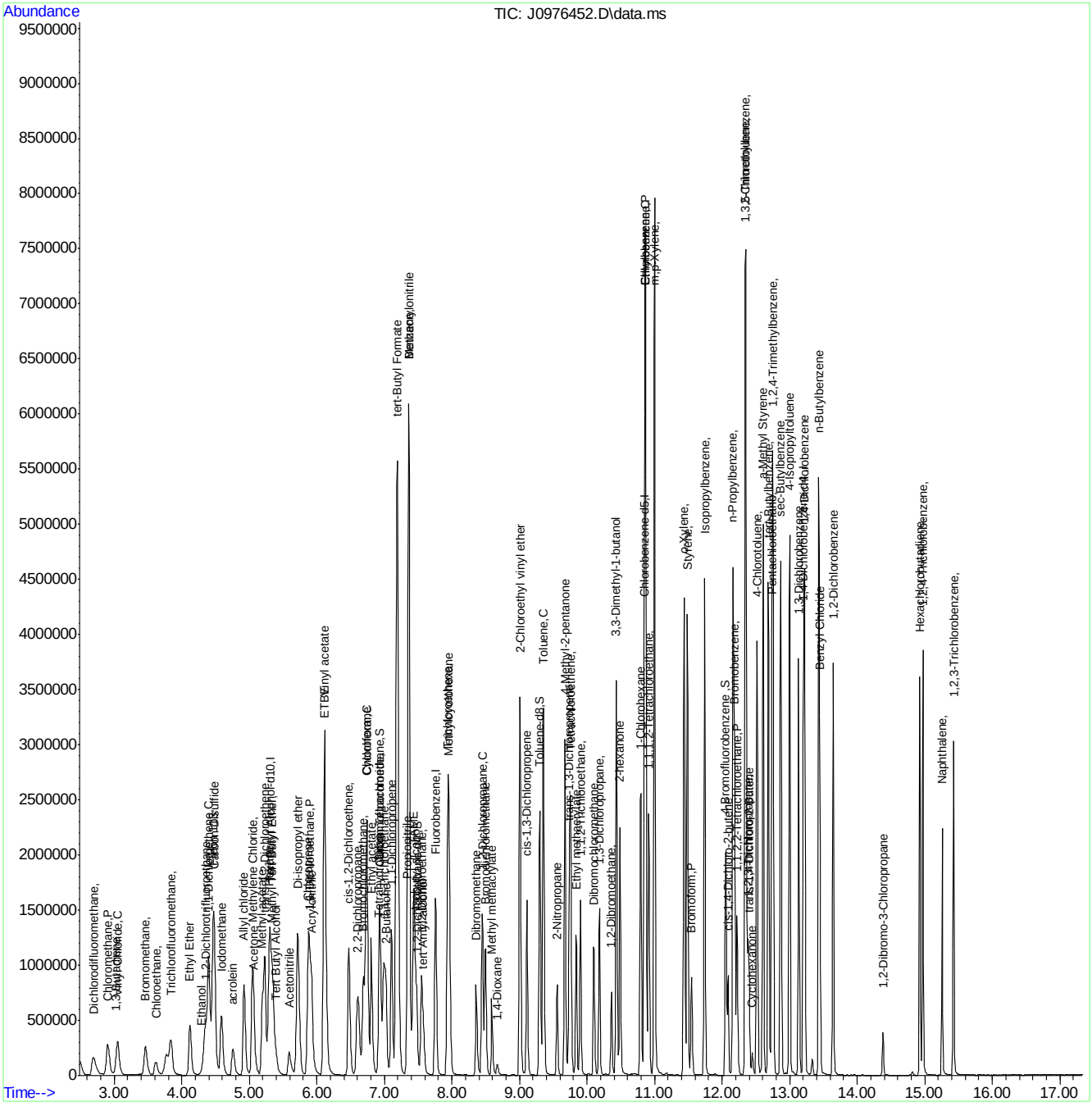


SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:52:32 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration












SGS ACCUTEST FA33878

# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | VJ5295-IC5295 | **Method:** | SW846 8260B |
| **Lab FileID:** | J0976452.D | **Analyst approved:** | 05/13/16 07:53 Darshna Patel |
| **Injection Time:** | 05/12/16 12:14 | **Supervisor approved:** | 05/13/16 11:32 Melissa Mangual |

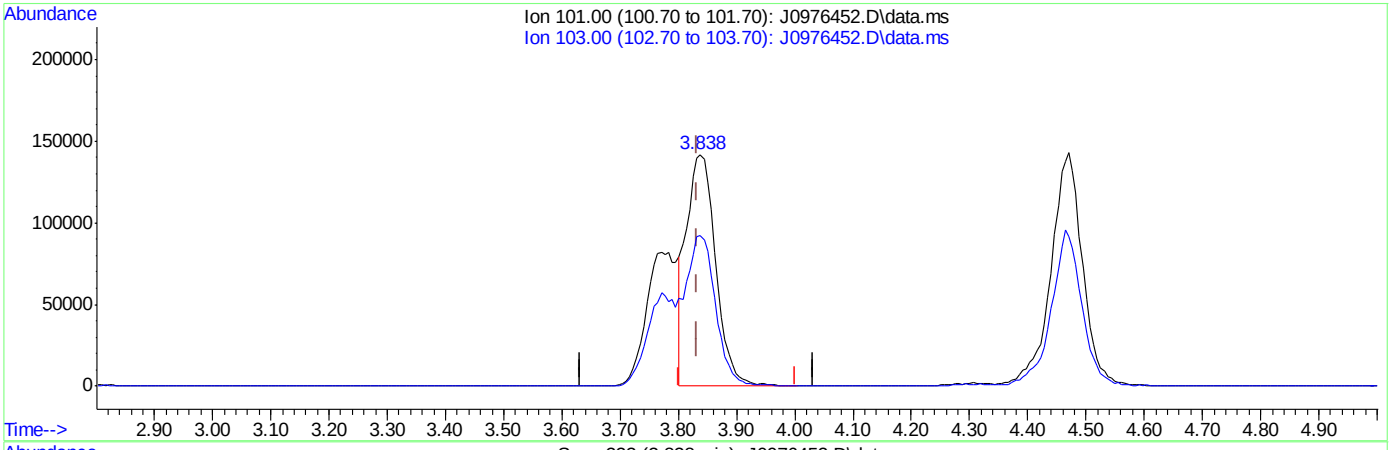
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichlorofluoromethane | 75-69-4 | | 3.84 | Split peak |
| Ethyl Alcohol | 64-17-5 | | 4.29 | Poor instrument integration |
| Carbon Tetrachloride | 56-23-5 | | 6.93 | Overlapping peak |

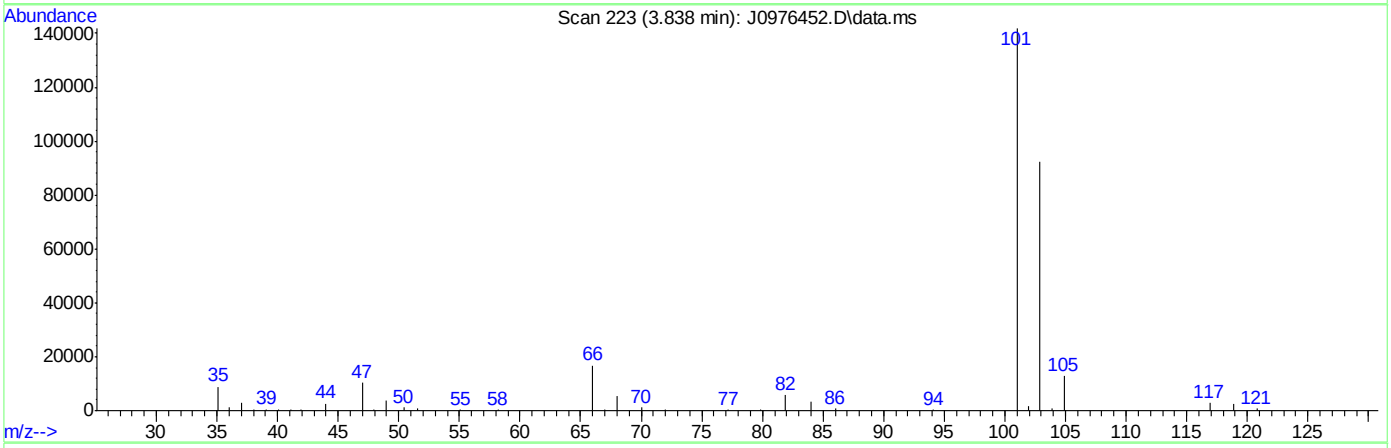
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:31:20 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976452.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 37.80ug/L

response 492022

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 63.50 | 65.13 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
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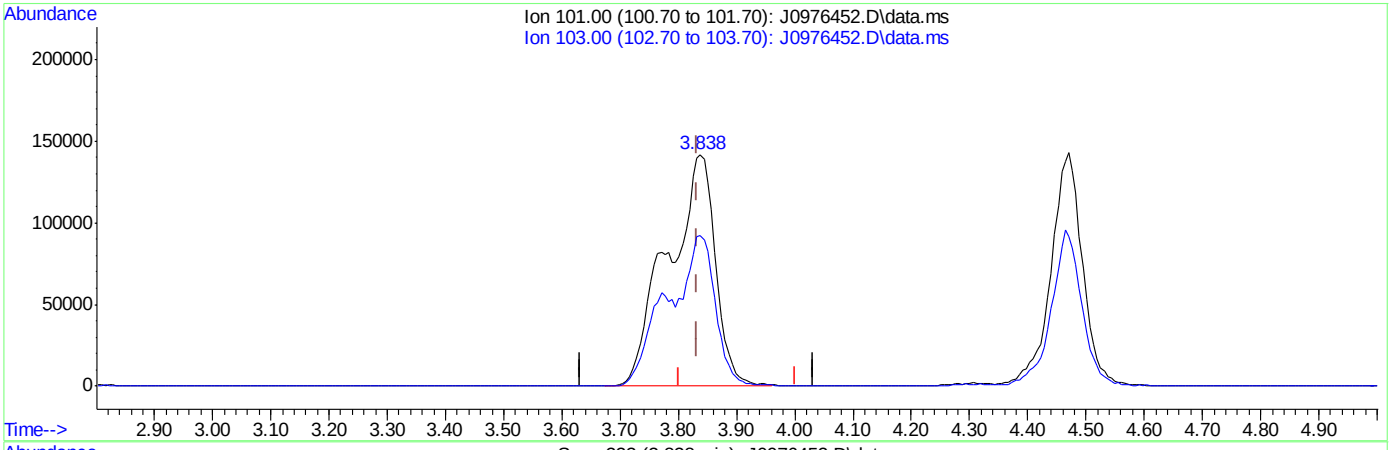
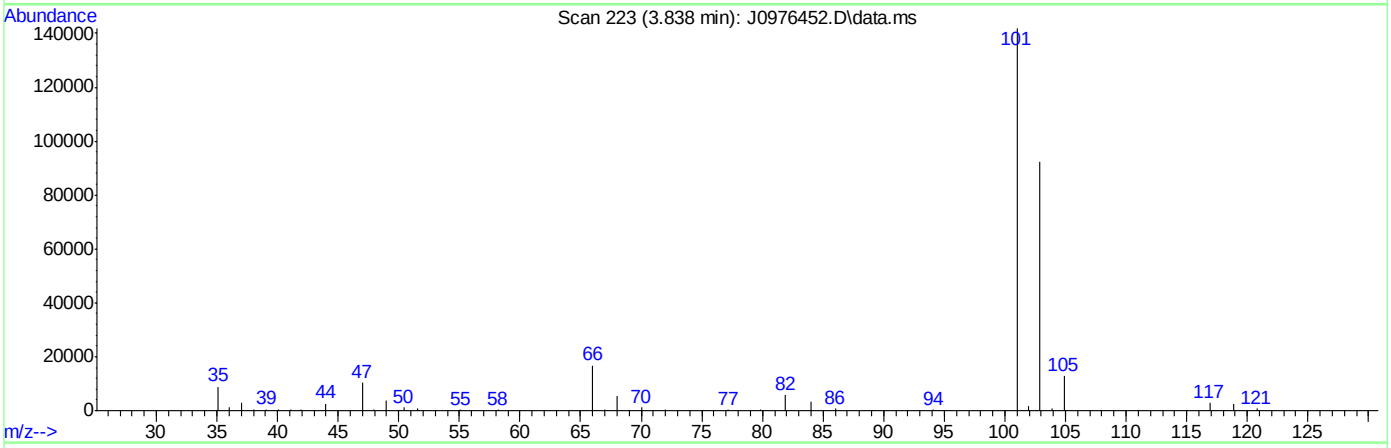
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:31:20 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976452.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 61.68ug/L m

response 802730

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 63.50 | 65.22 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



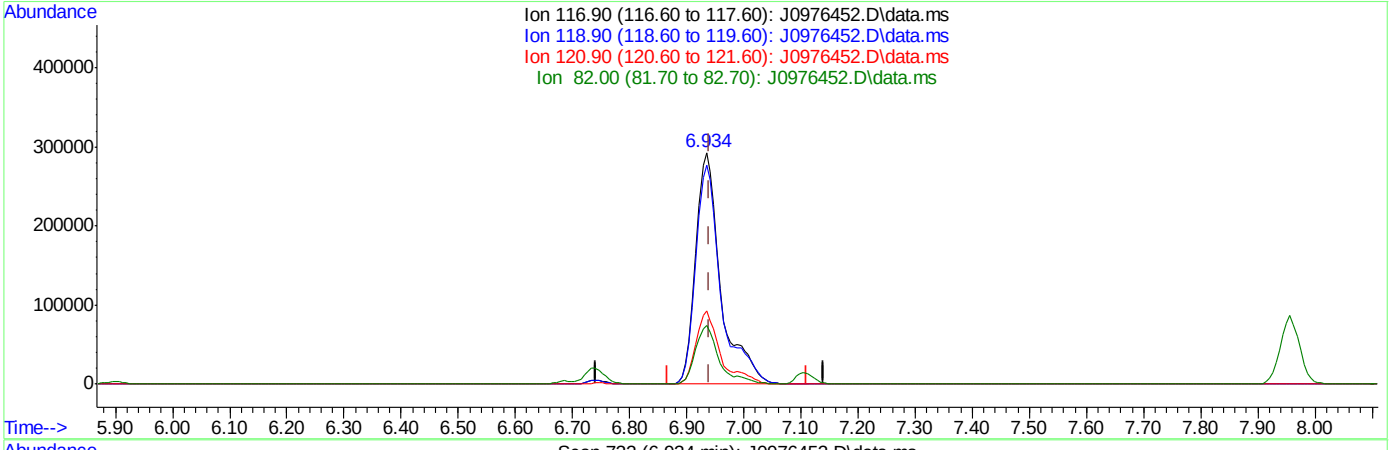
SGS ACCUTEST FA33878

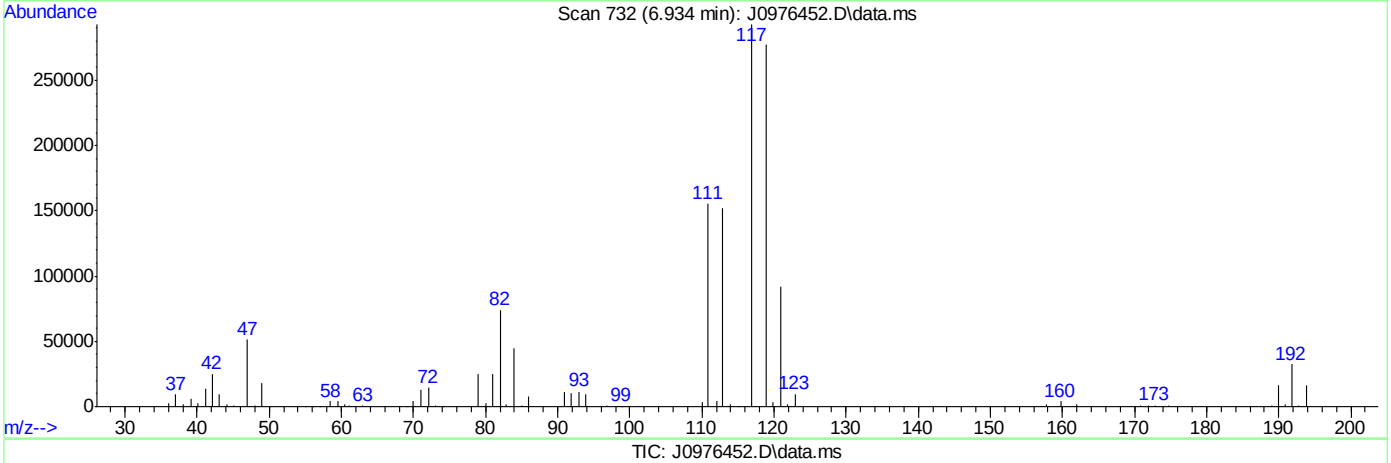
# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:31:20 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976452.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 85.39ug/L

response 896400

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 96.80 | 94.71 |
| 120.90 | 31.80 | 31.52 |
| 82.00 | 25.40 | 25.26 |



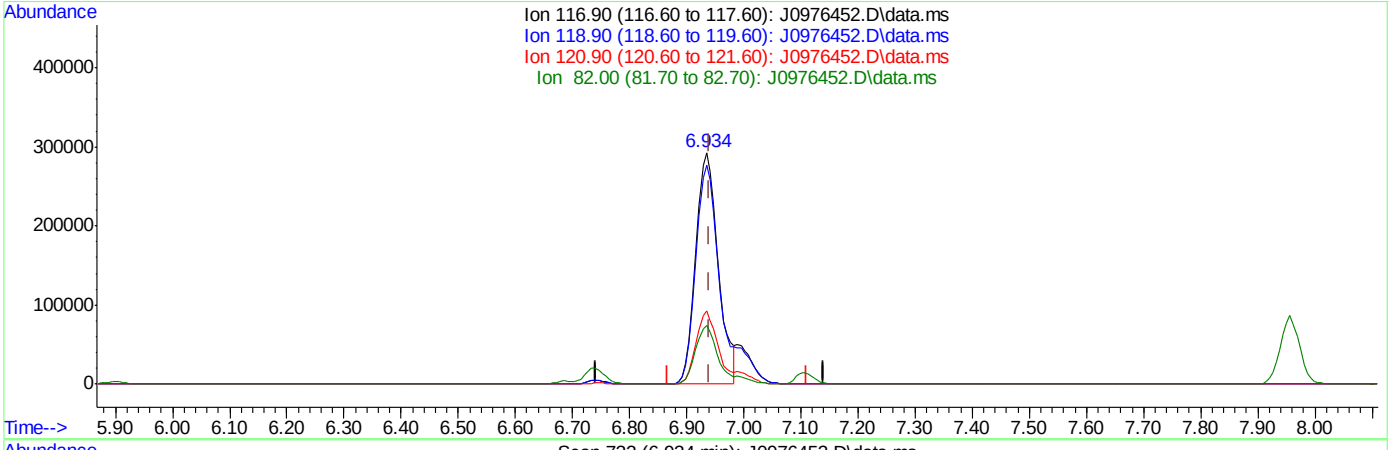
SGS ACCUTEST FA33878

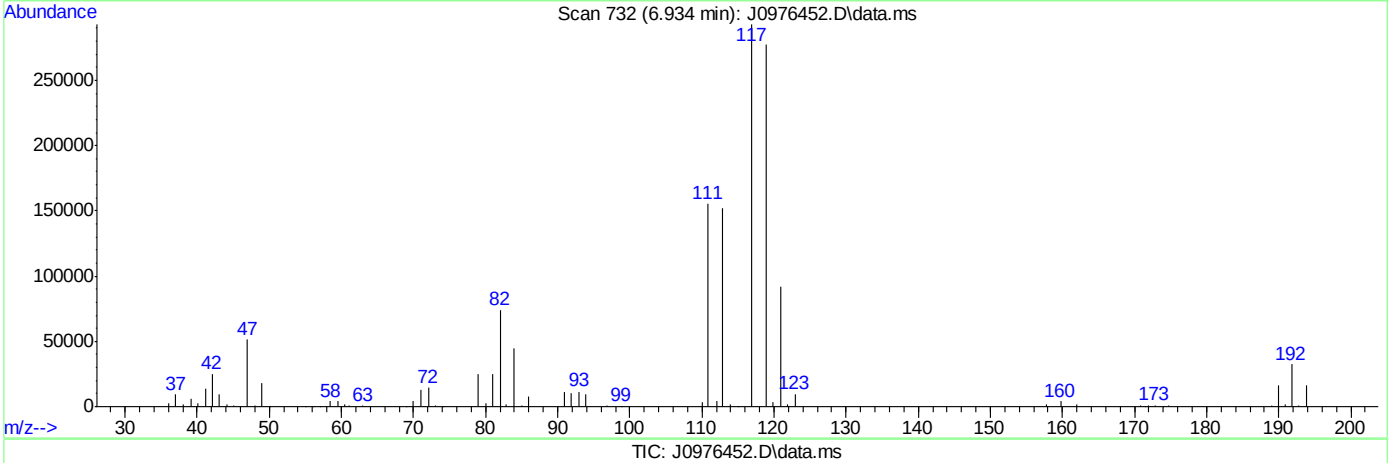
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:31:20 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976452.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 76.12ug/L m

response 799023

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 96.80 | 94.71 |
| 120.90 | 31.80 | 31.52 |
| 82.00 | 25.40 | 25.26 |



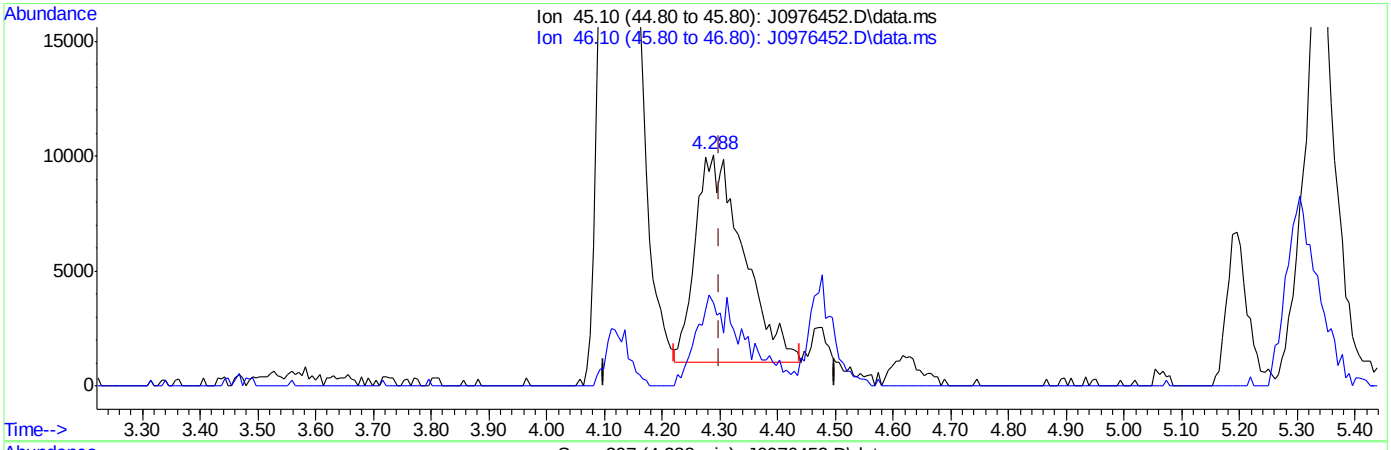
SGS ACCUTEST FA33878

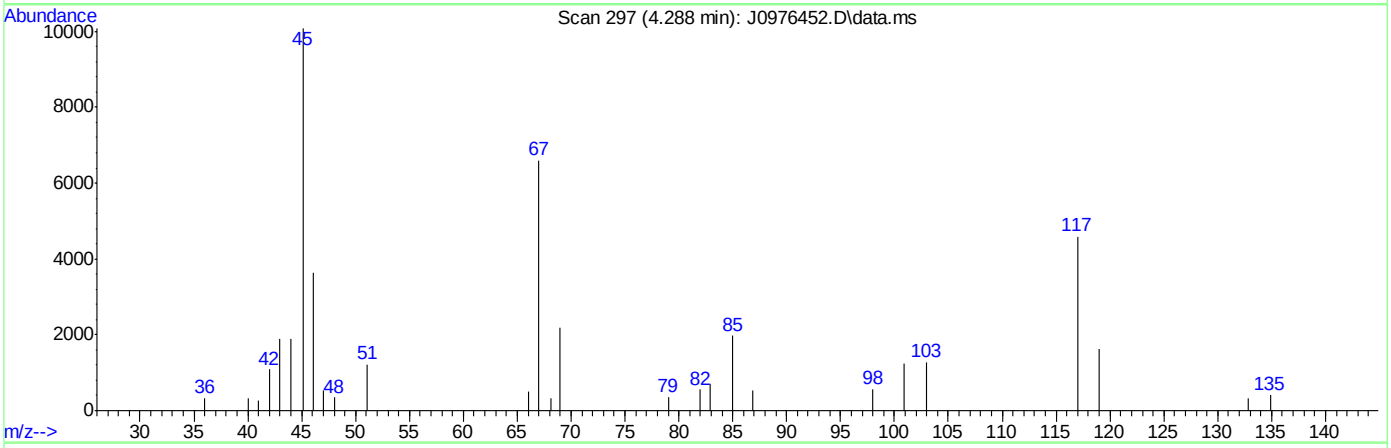
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:31:20 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976452.D\data.ms

(107) Ethanol

4.288min (-0.012) 1222.71ug/L

response 52053

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 28.20 | 40.24 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



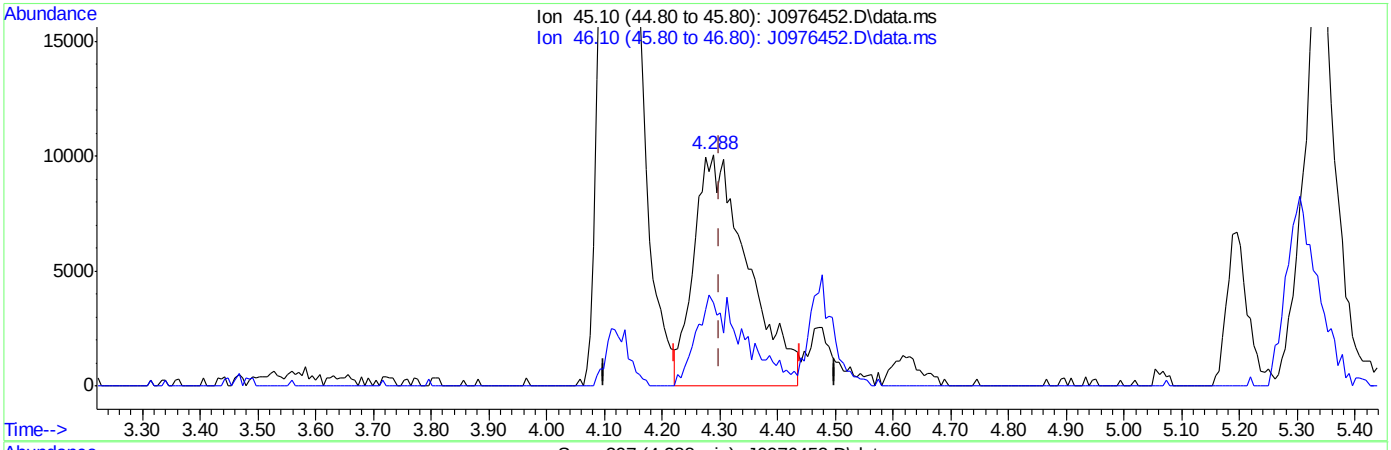
SGS ACCUTEST FA33878

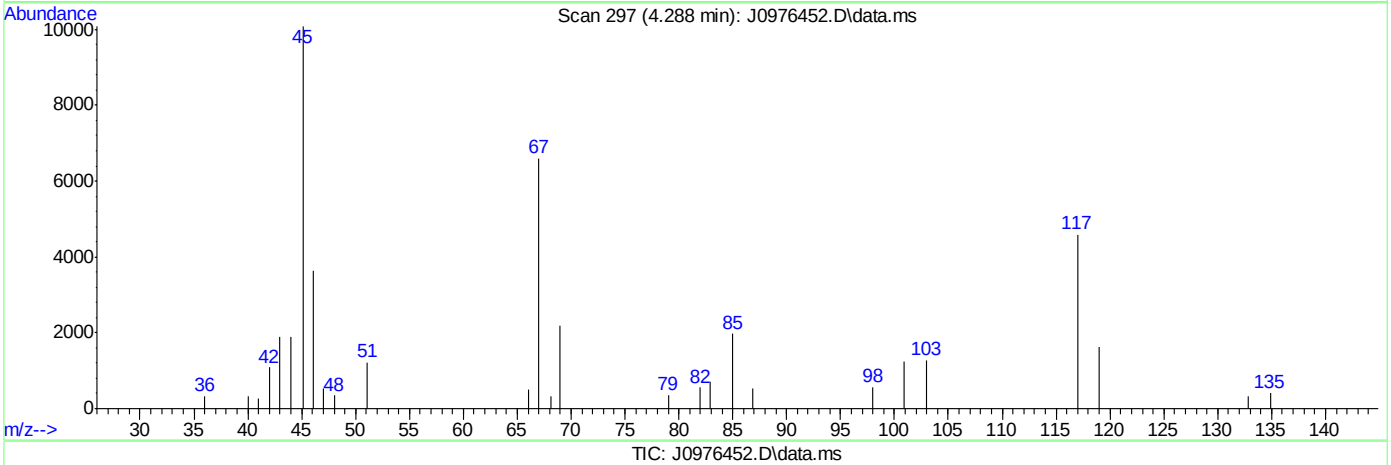
# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976452.D
Acq On : 12 May 2016 12:14 pm
Operator : darshnap
Sample : ic5295-6 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 14:31:20 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976452.D\data.ms

(107) Ethanol

4.288min (-0.012) 1539.00ug/L m

response 65518

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 28.20 | 36.04 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

J0976453.D

Manual Integrations APPROVED (compounds with "m" flag)

Melissa Mangual 05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:53:06 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1518797 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 1178824 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.207 | 152 | 680208 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.298 | 65 | 108562 | 250.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 36) Dibromofluoromethane | 6.928 | 113 | 373460 | 48.11 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 96.22% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 411127 | 43.85 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 87.70% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1501610 | 48.14 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 96.28% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 607280 | 46.49 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 92.98% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.682 | 85 | 651299 | 64.14 | ug/L | 94 |
| 3) Chloromethane | 2.901 | 50 | 859311 | 88.93 | ug/L | 96 |
| 4) Vinyl Chloride | 3.047 | 62 | 841123 | 80.77 | ug/L | 99 |
| 5) 1,3-Butadiene | 3.029 | 54 | 10354 | 1.24 | ug/L # | 81 |
| 6) Bromomethane | 3.461 | 94 | 414058 | 85.91 | ug/L | 99 |
| 7) Chloroethane | 3.601 | 64 | 216960 | 45.65 | ug/L | 99 |
| 8) Trichlorofluoromethane | 3.832 | 101 | 1138092m | 85.32 | ug/L | |
| 9) Ethyl Ether | 4.118 | 59 | 594982 | 94.39 | ug/L | 95 |
| 10) 1,2-Dichlorotrifluoroe... | 4.355 | 67 | 882332 | 98.96 | ug/L | 97 |
| 11) 1,1-Dichloroethene | 4.392 | 61 | 1166631 | 103.61 | ug/L | 95 |
| 12) Freon 113 | 4.465 | 101 | 796908 | 105.98 | ug/L | 98 |
| 13) Carbon Disulfide | 4.471 | 76 | 2683455 | 112.37 | ug/L | 99 |
| 14) Iodomethane | 4.580 | 142 | 1331742 | 108.03 | ug/L | 99 |
| 15) Allyl chloride | 4.921 | 41 | 1058938 | 99.90 | ug/L | 97 |
| 16) Methylene Chloride | 5.042 | 49 | 974953 | 100.96 | ug/L | 92 |
| 17) Acetone | 5.067 | 58 | 227432 | 509.81 | ug/L | 96 |
| 18) Methyl acetate | 5.188 | 74 | 441906 | 492.11 | ug/L | 93 |
| 19) trans-1,2-Dichloroethene | 5.225 | 61 | 1047043 | 95.52 | ug/L | 96 |
| 20) Hexane | 5.298 | 56 | 691548 | 101.38 | ug/L | 96 |
| 21) Methyl Tert Butyl Ether | 5.335 | 73 | 2146633 | 104.76 | ug/L | 78 |
| 22) Acetonitrile | 5.584 | 40 | 296160 | 1021.09 | ug/L | 96 |
| 23) Di-isopropyl ether | 5.712 | 45 | 2368068 | 100.30 | ug/L | 98 |
| 24) Chloroprene | 5.870 | 53 | 1166107 | 100.27 | ug/L | 96 |
| 25) 1,1-Dichloroethane | 5.894 | 63 | 1355242 | 95.41 | ug/L | 99 |
| 26) Acrylonitrile | 5.925 | 53 | 913137 | 463.82 | ug/L | 96 |
| 27) ETBE | 6.113 | 59 | 2393724 | 101.27 | ug/L | 97 |
| 28) Vinyl acetate | 6.107 | 43 | 5044762 | 426.85 | ug/L | 96 |
| 29) cis-1,2-Dichloroethene | 6.472 | 96 | 907885 | 100.21 | ug/L | 98 |
| 30) 2,2-Dichloropropane | 6.600 | 77 | 1153876 | 108.26 | ug/L | 99 |
| 31) Bromochloromethane | 6.685 | 128 | 415153 | 98.69 | ug/L | 93 |
| 32) Cyclohexane | 6.734 | 56 | 1405538 | 110.80 | ug/L | 92 |
| 33) Chloroform | 6.734 | 83 | 1467556 | 94.64 | ug/L | 96 |
| 34) Ethyl acetate | 6.807 | 43 | 2010635 | 425.95 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:53:06 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 35) Tetrahydrofuran | 6.916 | 42 | 130669 | 94.24 | ug/L | 97 |
| 37) Carbon Tetrachloride | 6.934 | 117 | 1143543m | 106.29 | ug/L | |
| 38) 1,1,1-Trichloroethane | 6.995 | 97 | 1335984 | 102.39 | ug/L | 99 |
| 39) 2-Butanone | 7.020 | 43 | 942113 | 456.31 | ug/L | 99 |
| 40) 1,1-Dichloropropene | 7.105 | 75 | 1056163 | 97.72 | ug/L | 96 |
| 41) tert-Butyl Formate | 7.190 | 59 | 4966696 | 1027.34 | ug/L | 96 |
| 42) Propionitrile | 7.330 | 54 | 661097 | 920.46 | ug/L | 83 |
| 43) Methacrylonitrile | 7.360 | 41 | 2468872 | 847.06 | ug/L | 95 |
| 44) Benzene | 7.354 | 78 | 3084333 | 93.68 | ug/L | 95 |
| 45) TAME | 7.433 | 73 | 2246440 | 107.77 | ug/L | 96 |
| 47) 1,2-Dichloroethane | 7.549 | 62 | 960565 | 84.52 | ug/L | 99 |
| 48) Trichloroethene | 7.932 | 95 | 819732 | 94.41 | ug/L | 98 |
| 49) Methylcyclohexane | 7.957 | 83 | 1560913 | 113.89 | ug/L | 96 |
| 50) Dibromomethane | 8.358 | 93 | 440789 | 97.57 | ug/L | 95 |
| 51) 1,2-Dichloropropane | 8.449 | 63 | 786413 | 97.08 | ug/L | 96 |
| 52) Bromodichloromethane | 8.492 | 83 | 1039385 | 99.61 | ug/L | 98 |
| 53) Methyl methacrylate | 8.589 | 41 | 417509 | 95.75 | ug/L | 96 |
| 54) 2-Chloroethyl vinyl ether | 9.009 | 63 | 1941087 | 470.27 | ug/L | 95 |
| 55) cis-1,3-Dichloropropene | 9.106 | 75 | 1237691 | 105.14 | ug/L | 97 |
| 58) Toluene | 9.350 | 91 | 3178652 | 98.93 | ug/L | 92 |
| 59) 2-Nitropropane | 9.556 | 41 | 604202 | 420.40 | ug/L | 97 |
| 60) 4-Methyl-2-pentanone | 9.672 | 43 | 2239097 | 435.52 | ug/L | 93 |
| 61) trans-1,3-Dichloropropene | 9.733 | 75 | 1050185 | 103.49 | ug/L | 97 |
| 62) Tetrachloroethene | 9.757 | 166 | 875580 | 87.27 | ug/L | 98 |
| 63) Ethyl methacrylate | 9.836 | 69 | 836118 | 94.32 | ug/L | 95 |
| 64) 1,1,2-Trichloroethane | 9.903 | 83 | 546950 | 94.34 | ug/L | 95 |
| 65) Dibromochloromethane | 10.098 | 129 | 765262 | 99.88 | ug/L | 97 |
| 66) 1,3-Dichloropropane | 10.183 | 76 | 1085050 | 91.51 | ug/L | 97 |
| 67) 1,2-Dibromoethane | 10.360 | 107 | 632383 | 100.07 | ug/L | 99 |
| 68) 2-hexanone | 10.487 | 43 | 1586642 | 453.73 | ug/L | 93 |
| 69) 1-Chlorohexane | 10.798 | 91 | 1130116 | 104.32 | ug/L | 90 |
| 70) Ethylbenzene | 10.858 | 91 | 3503961 | 99.77 | ug/L | 89 |
| 71) Chlorobenzene | 10.864 | 112 | 2184913 | 97.34 | ug/L | 99 |
| 72) 1,1,1,2-Tetrachloroethane | 10.913 | 131 | 801668 | 106.19 | ug/L | 98 |
| 73) m,p-Xylene | 10.998 | 91 | 4804369 | 220.10 | ug/L | 76 |
| 74) o-Xylene | 11.436 | 91 | 2982677 | 96.54 | ug/L | 90 |
| 75) Styrene | 11.485 | 104 | 2417815 | 105.86 | ug/L | 97 |
| 76) Bromoform | 11.546 | 173 | 506735 | 110.80 | ug/L | 98 |
| 77) Isopropylbenzene | 11.741 | 105 | 3488353 | 105.66 | ug/L | 89 |
| 80) cis-1,4-Dichloro-2-butene | 12.087 | 53 | 215060 | 120.51 | ug/L | 88 |
| 81) n-Propylbenzene | 12.160 | 91 | 3929152 | 82.83 | ug/L | 84 |
| 82) Bromobenzene | 12.185 | 156 | 1034822 | 94.00 | ug/L | 97 |
| 83) 1,1,2,2-Tetrachloroethane | 12.221 | 83 | 794664 | 98.50 | ug/L | 100 |
| 84) 1,3,5-Trimethylbenzene | 12.343 | 105 | 3192934 | 90.40 | ug/L | 88 |
| 85) 2-Chlorotoluene | 12.349 | 91 | 2915956 | 84.89 | ug/L | 94 |
| 86) trans-1,4-Dichloro-2-B... | 12.398 | 53 | 202737 | 106.50 | ug/L # | 88 |
| 87) 1,2,3-Trichloropropane | 12.379 | 110 | 211871 | 95.53 | ug/L | 98 |
| 88) Cyclohexanone | 12.446 | 55 | 103606 | 766.35 | ug/L | 93 |
| 89) 4-Chlorotoluene | 12.519 | 91 | 2797209 | 88.70 | ug/L | 90 |
| 90) a-Methyl Styrene | 12.604 | 118 | 1916887 | 194.38 | ug/L | 98 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

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Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:53:06 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 91) | tert-Butylbenzene | 12.683 | 91 | 1882953 | 90.42 | ug/L | 97 |
| 92) | 1,2,4-Trimethylbenzene | 12.750 | 105 | 3168286 | 89.58 | ug/L | 89 |
| 93) | Pentachloroethane | 12.738 | 167 | 699264 | 113.06 | ug/L | 96 |
| 94) | sec-Butylbenzene | 12.866 | 105 | 3750373 | 89.13 | ug/L | 89 |
| 95) | 4-Isopropyltoluene | 13.000 | 119 | 3271222 | 93.31 | ug/L | 88 |
| 96) | 1,3-Dichlorobenzene | 13.134 | 146 | 1821398 | 96.63 | ug/L | 97 |
| 97) | 1,4-Dichlorobenzene | 13.219 | 146 | 1836230 | 91.75 | ug/L | 95 |
| 98) | n-Butylbenzene | 13.432 | 92 | 1993389 | 99.28 | ug/L | 83 |
| 99) | Benzyl Chloride | 13.444 | 126 | 322095 | 111.35 | ug/L | 94 |
| 100) | 1,2-Dichlorobenzene | 13.645 | 146 | 1684058 | 98.34 | ug/L | 95 |
| 101) | 1,2-Dibromo-3-Chloropr... | 14.381 | 75 | 119242 | 139.66 | ug/L | 85 |
| 102) | Hexachlorobutadiene | 14.928 | 225 | 821299 | 131.95 | ug/L | 95 |
| 103) | 1,2,4-Trichlorobenzene | 14.971 | 180 | 1214521 | 152.74 | ug/L | 98 |
| 104) | Naphthalene | 15.257 | 128 | 1801574 | 152.17 | ug/L | 97 |
| 105) | 1,2,3-Trichlorobenzene | 15.427 | 180 | 1038632 | 165.41 | ug/L | 99 |
| 107) | Ethanol | 4.276 | 45 | 101265m | 2150.75 | ug/L | |
| 108) | acrolein | 4.750 | 56 | 478151 | 399.44 | ug/L | 95 |
| 109) | Tert Butyl Alcohol | 5.383 | 59 | 491986 | 975.65 | ug/L | 89 |
| 110) | tert Amyl alcohol | 7.573 | 59 | 391318 | 1040.24 | ug/L | 94 |
| 111) | Isobutyl alcohol | 7.452 | 42 | 311367 | 1759.00 | ug/L | 96 |
| 112) | 1,4-Dioxane | 8.668 | 88 | 112250 | 2334.96 | ug/L | 96 |
| 113) | 3,3-Dimethyl-1-butanol | 10.433 | 57 | 2157655 | 4367.51 | ug/L | 96 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.16

7

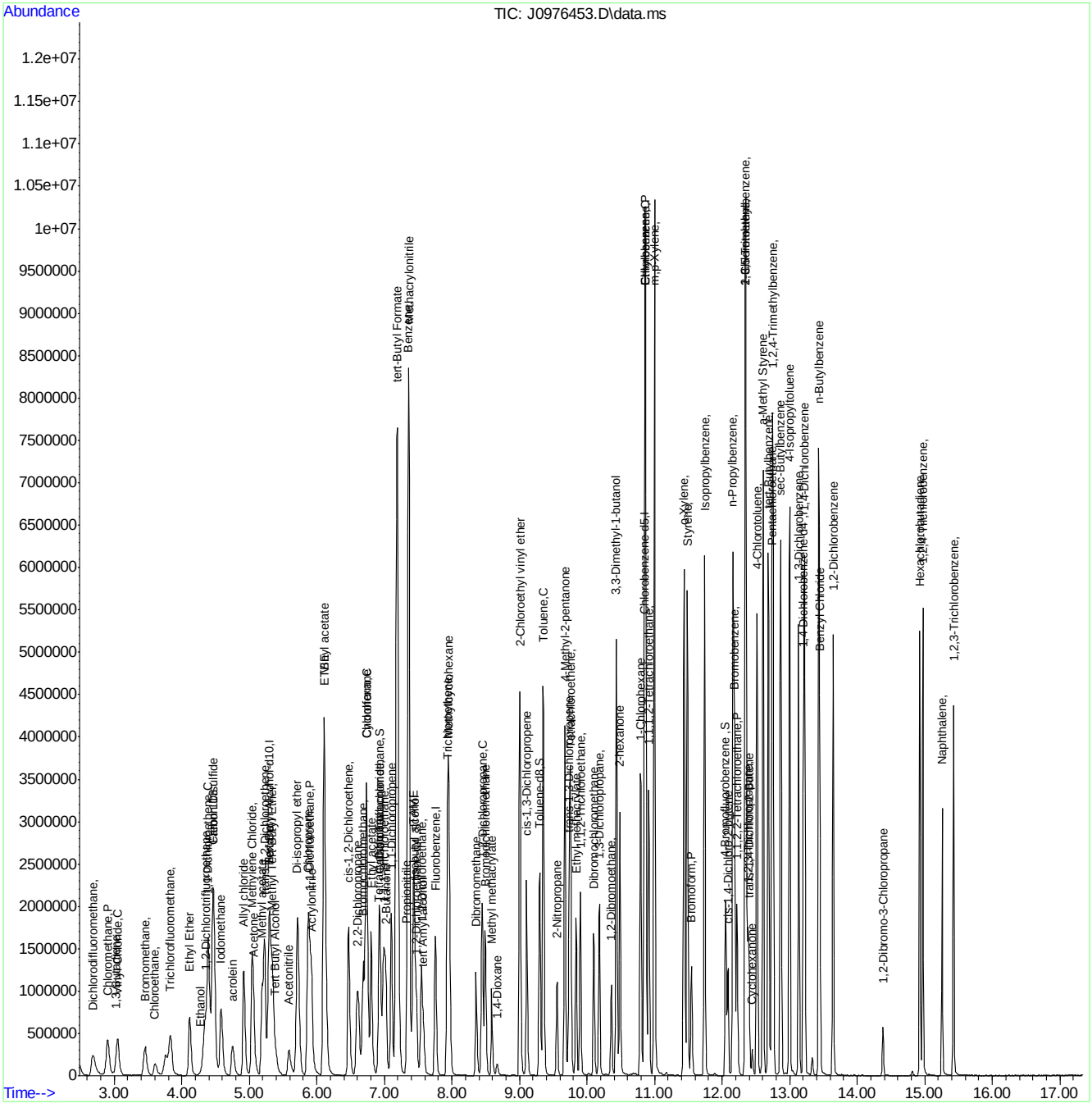


SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:53:06 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration












SGS ACCUTEST FA33878

# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | VJ5295-IC5295 | **Method:** | SW846 8260B |
| **Lab FileID:** | J0976453.D | **Analyst approved:** | 05/13/16 07:53 Darshna Patel |
| **Injection Time:** | 05/12/16 12:37 | **Supervisor approved:** | 05/13/16 11:32 Melissa Mangual |

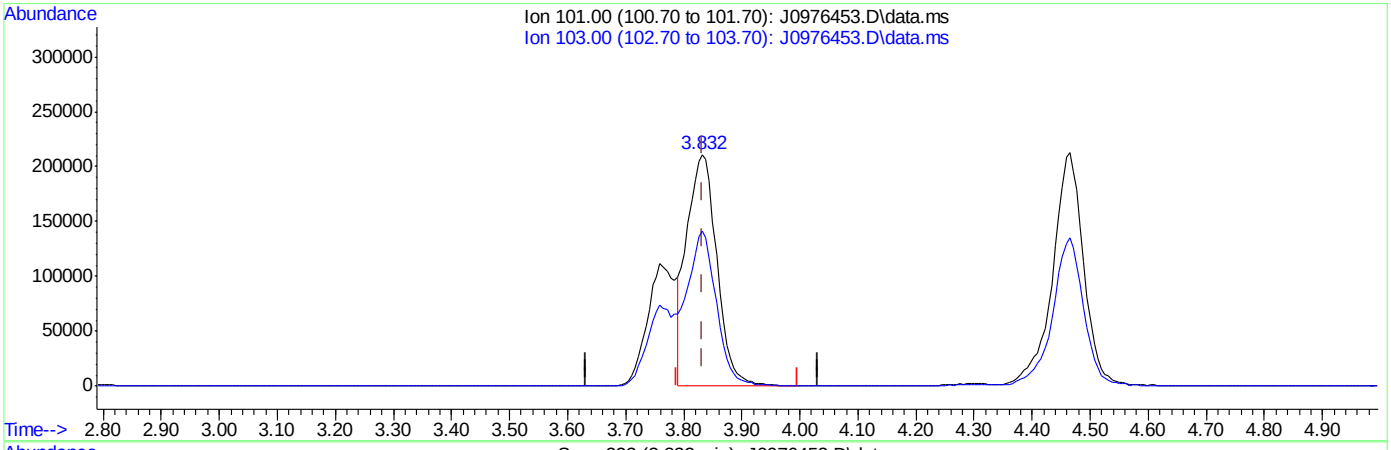
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichlorofluoromethane | 75-69-4 | | 3.83 | Split peak |
| Ethyl Alcohol | 64-17-5 | | 4.28 | Poor instrument integration |
| Carbon Tetrachloride | 56-23-5 | | 6.93 | Overlapping peak |

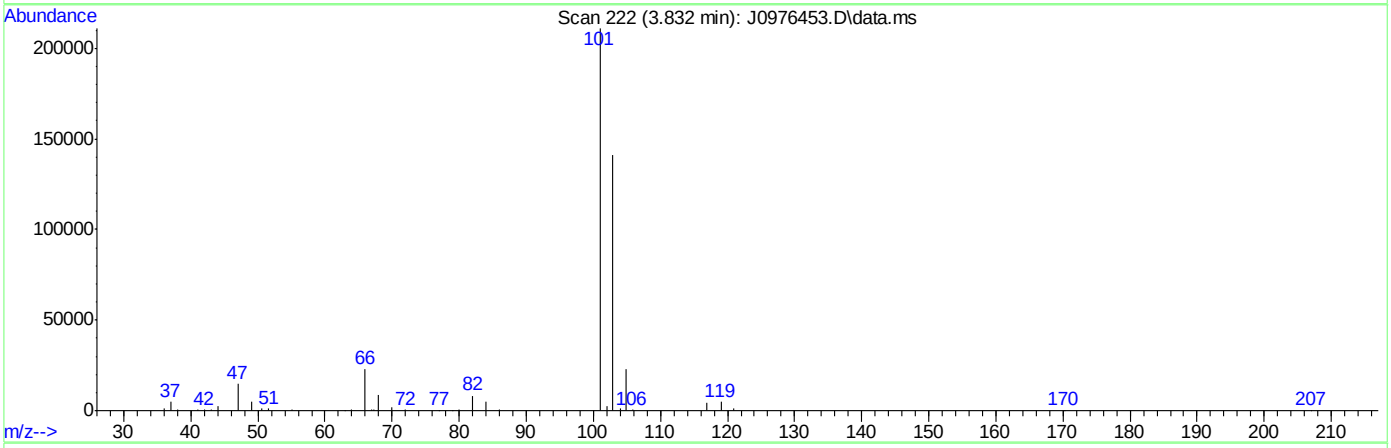
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:31:23 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976453.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 56.96ug/L

response 759883

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 63.50 | 66.60 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



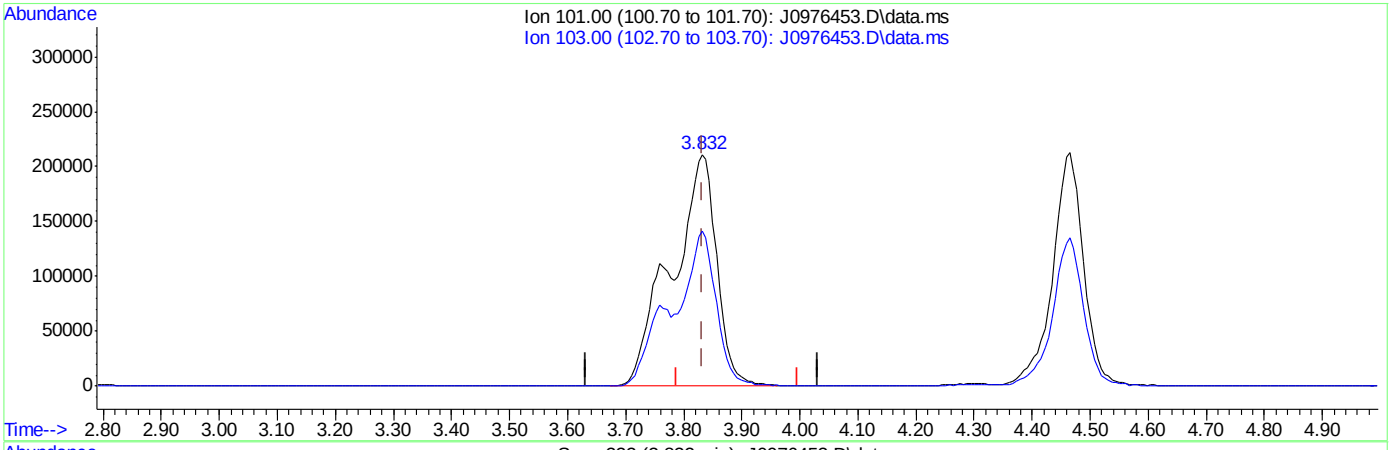
SGS ACCUTEST FA33878

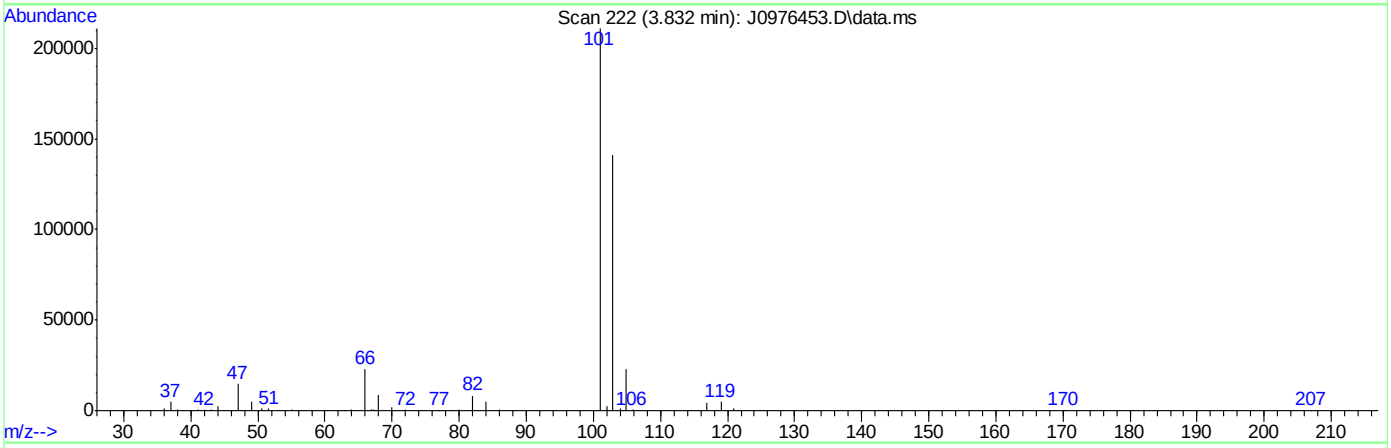
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:31:23 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976453.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 85.32ug/L m

response 1138092

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 63.50 | 66.73 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



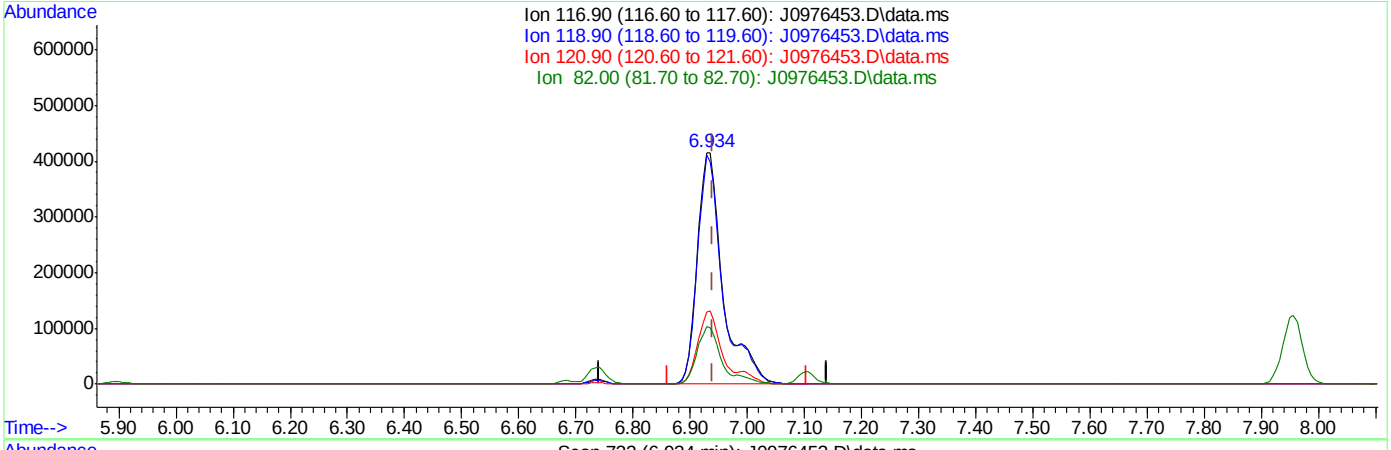
SGS ACCUTEST FA33878

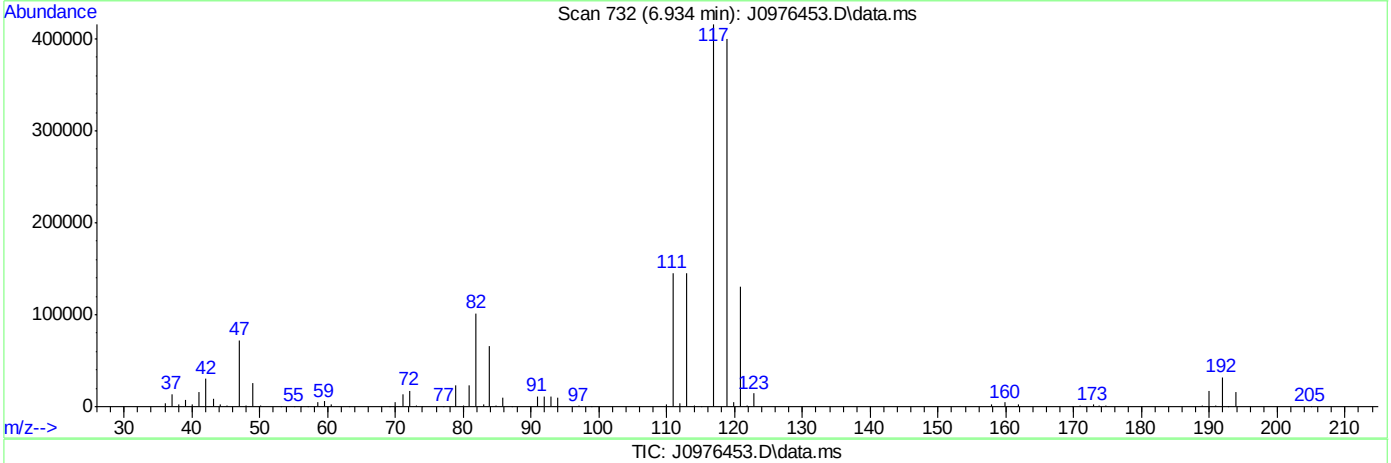
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:31:23 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976453.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 121.02ug/L

response 1302070

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 96.80 | 96.15 |
| 120.90 | 31.80 | 31.53 |
| 82.00 | 25.40 | 24.38 |



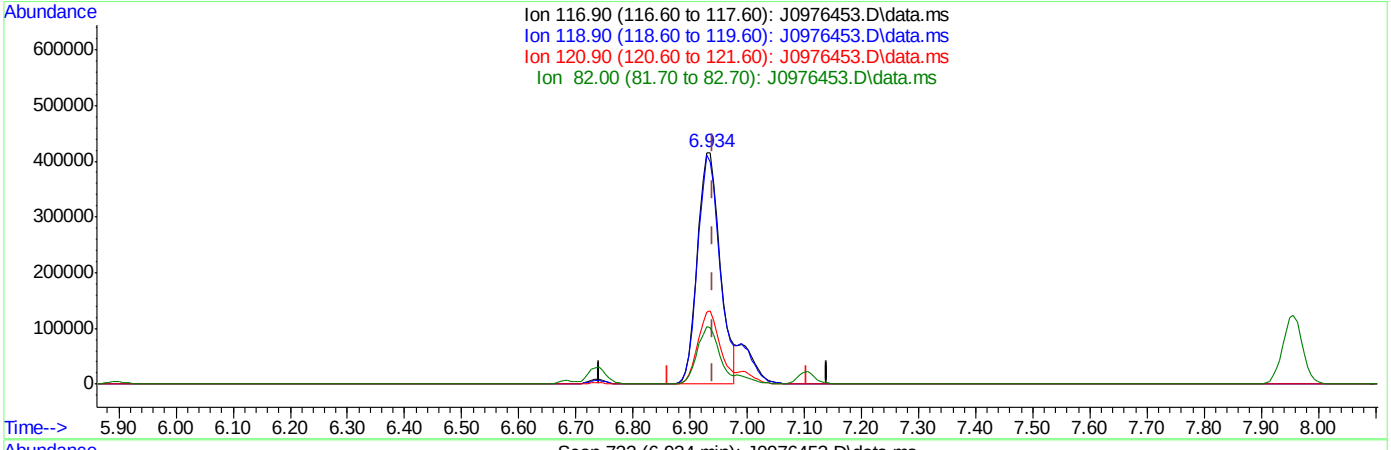
SGS ACCUTEST FA33878

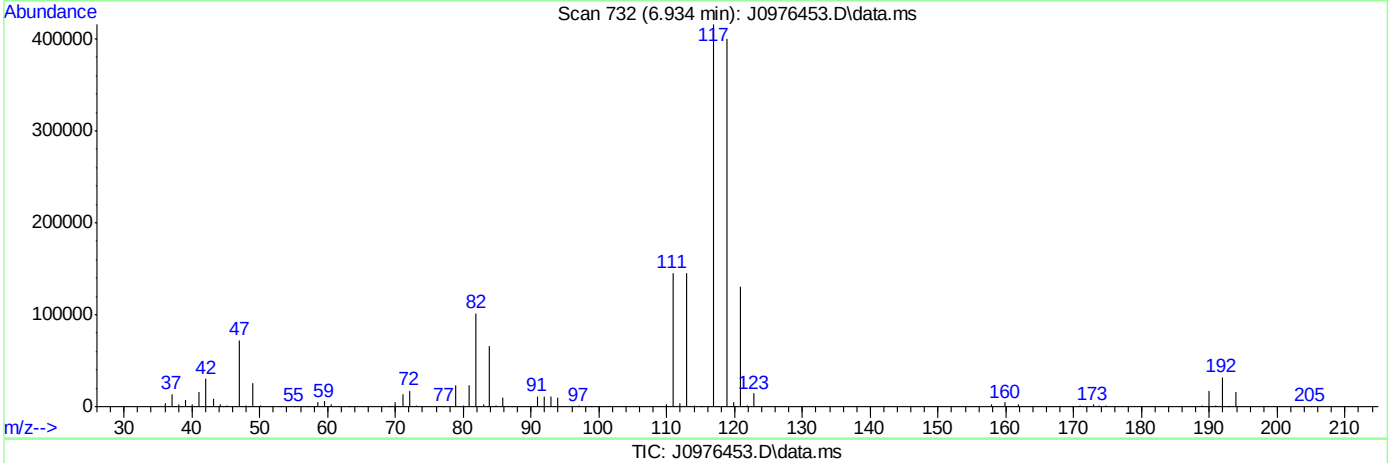
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:31:23 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976453.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 106.29ug/L m

response 1143543

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 96.80 | 96.15 |
| 120.90 | 31.80 | 31.53 |
| 82.00 | 25.40 | 24.38 |

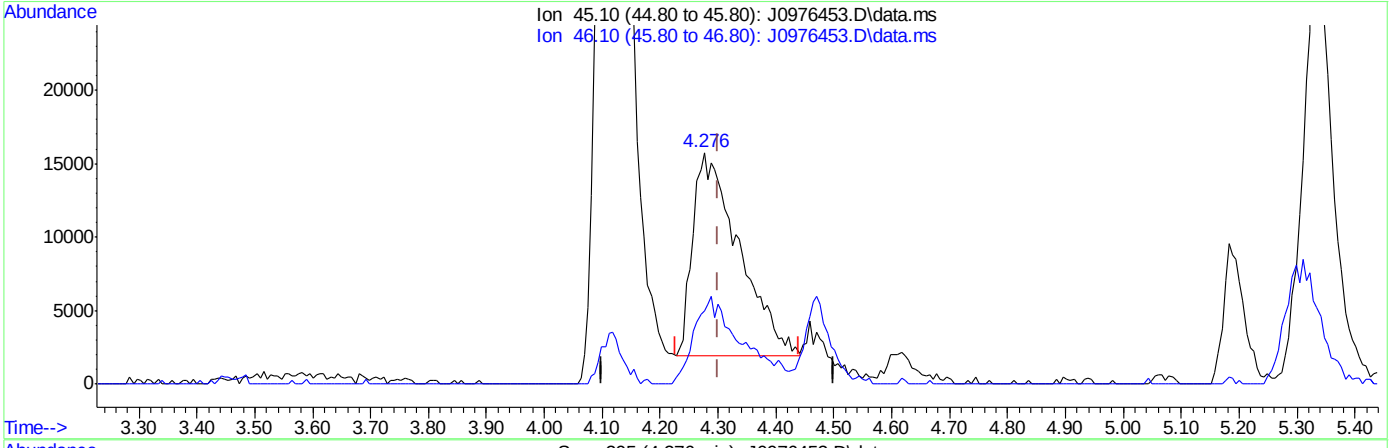


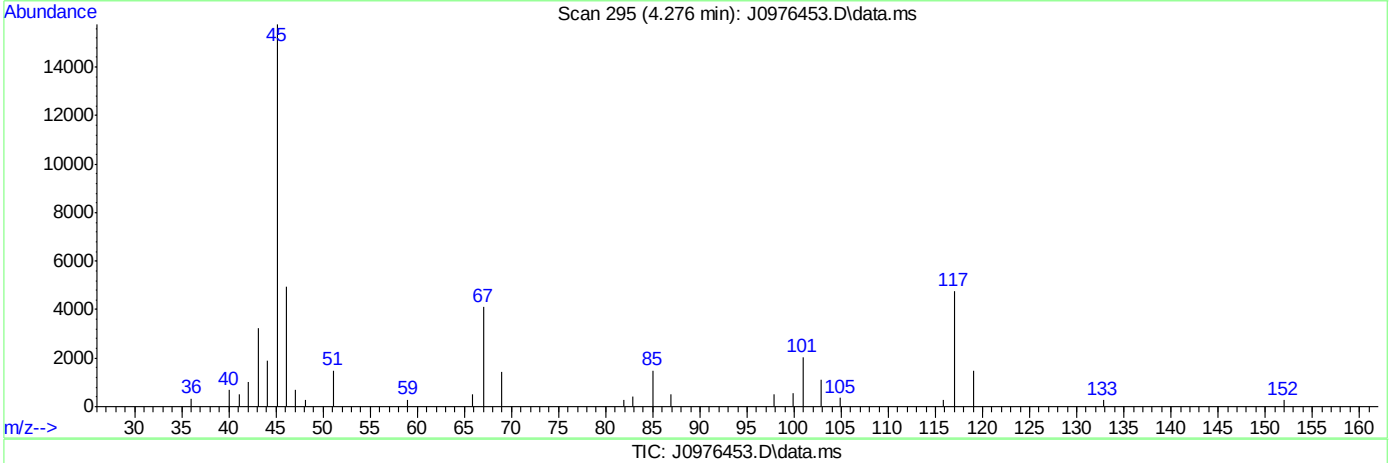
SGS ACCUTEST FA33878

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:31:23 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration




TIC: J0976453.D\data.ms

(107) Ethanol

4.276min (-0.024) 1615.94ug/L

response 76084

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 28.20 | 32.70 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



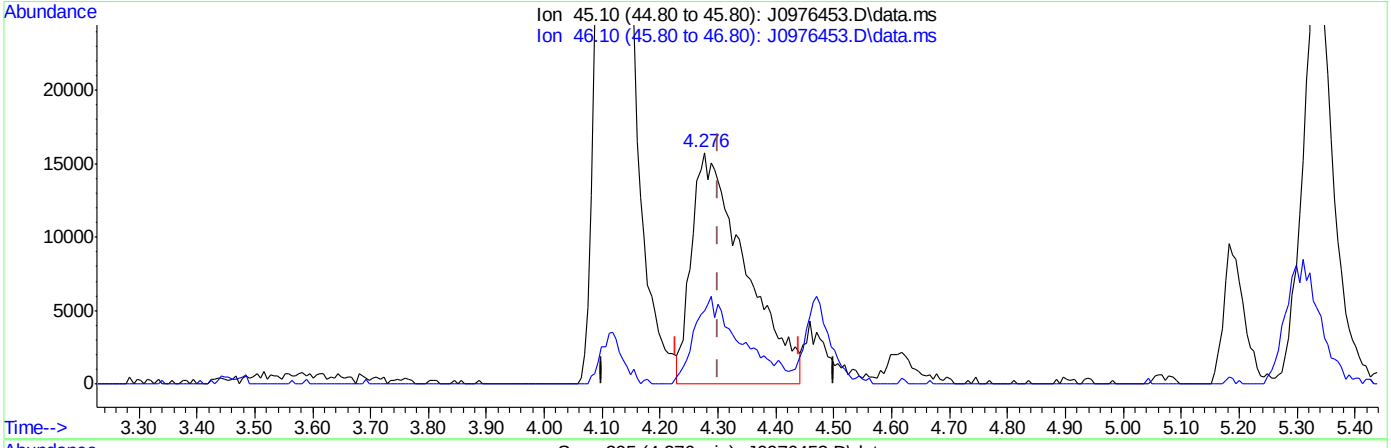
SGS ACCUTEST FA33878

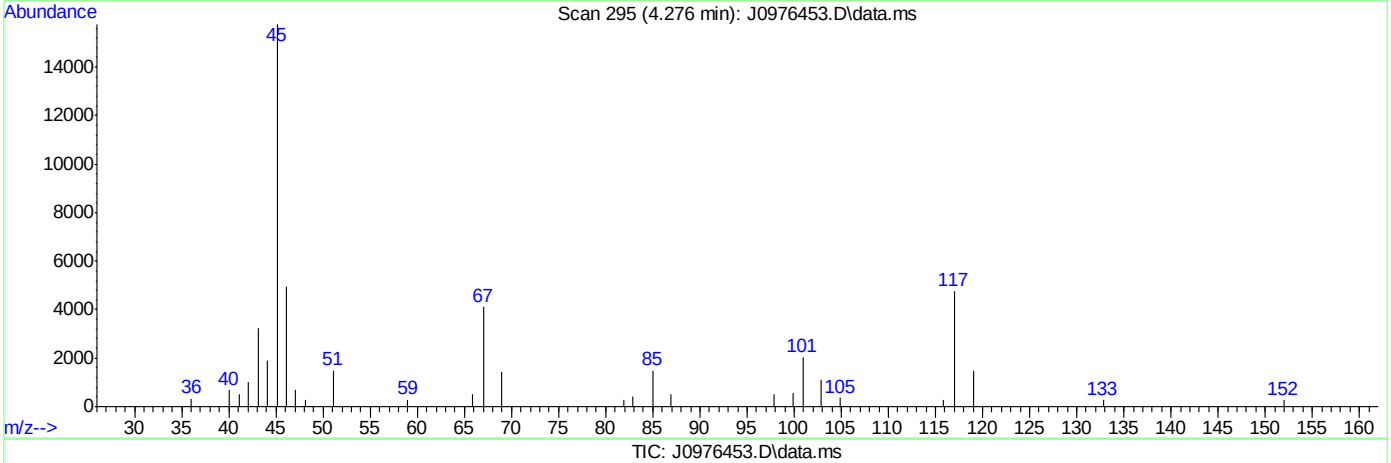
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976453.D
Acq On : 12 May 2016 12:37 pm
Operator : darshnap
Sample : ic5295-7 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 14:31:23 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration






TIC: J0976453.D\data.ms

(107) Ethanol

4.276min (-0.024) 2150.75ug/L m

response 101265

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 28.20 | 31.50 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:31:25 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1427928 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 1121704 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.207 | 152 | 632527 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.298 | 65 | 92953 | 250.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 36) Dibromofluoromethane | 6.928 | 113 | 349664 | 48.87 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 97.74% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 413676 | 49.45 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 98.90% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1431767 | 49.56 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 99.12% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 580759 | 50.36 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 100.72% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.688 | 85 | 247252 | 43.27 | ug/L | 91 |
| 3) Chloromethane | 2.901 | 50 | 304995 | 40.98 | ug/L | 97 |
| 4) Vinyl Chloride | 3.047 | 62 | 338012 | 42.14 | ug/L | 97 |
| 5) 1,3-Butadiene | 3.023 | 54 | 5495 | 29.69 | ug/L # | 82 |
| 6) Bromomethane | 3.467 | 94 | 195037 | 40.50 | ug/L | 98 |
| 7) Chloroethane | 3.619 | 64 | 135395 | 40.28 | ug/L | 95 |
| 8) Trichlorofluoromethane | 3.838 | 101 | 445148m | 43.56 | ug/L | |
| 9) Ethyl Ether | 4.118 | 59 | 211926 | 37.39 | ug/L | 97 |
| 10) 1,2-Dichlorotrifluoroe... | 4.355 | 67 | 307161 | 35.24 | ug/L | 98 |
| 11) 1,1-Dichloroethene | 4.404 | 61 | 396705 | 37.46 | ug/L | 99 |
| 12) Freon 113 | 4.477 | 101 | 238367 | 32.63 | ug/L | 95 |
| 13) Carbon Disulfide | 4.477 | 76 | 822601 | 34.54 | ug/L | 100 |
| 14) Iodomethane | 4.592 | 142 | 430204 | 36.39 | ug/L | 98 |
| 15) Allyl chloride | 4.927 | 41 | 317737 | 34.80 | ug/L | 91 |
| 16) Methylene Chloride | 5.049 | 49 | 356821 | 37.35 | ug/L | 98 |
| 17) Acetone | 5.073 | 58 | 76348 | 174.04 | ug/L # | 70 |
| 18) Methyl acetate | 5.195 | 74 | 156420 | 189.53 | ug/L | 96 |
| 19) trans-1,2-Dichloroethene | 5.231 | 61 | 393694 | 40.39 | ug/L | 98 |
| 20) Hexane | 5.304 | 56 | 226999 | 33.52 | ug/L | 94 |
| 21) Methyl Tert Butyl Ether | 5.341 | 73 | 732479 | 34.99 | ug/L | 96 |
| 22) Acetonitrile | 5.590 | 40 | 98073 | 363.43 | ug/L | 89 |
| 23) Di-isopropyl ether | 5.718 | 45 | 819004 | 35.30 | ug/L | 99 |
| 24) Chloroprene | 5.876 | 53 | 344929 | 35.92 | ug/L | 99 |
| 25) 1,1-Dichloroethane | 5.900 | 63 | 504251 | 38.52 | ug/L | 96 |
| 26) Acrylonitrile | 5.925 | 53 | 355294 | 204.40 | ug/L | 96 |
| 27) ETBE | 6.119 | 59 | 871950 | 36.72 | ug/L | 98 |
| 28) Vinyl acetate | 6.107 | 43 | 2069895 | 193.88 | ug/L | 99 |
| 29) cis-1,2-Dichloroethene | 6.478 | 96 | 305172 | 36.29 | ug/L | 95 |
| 30) 2,2-Dichloropropane | 6.606 | 77 | 406302 | 37.07 | ug/L | 100 |
| 31) Bromochloromethane | 6.685 | 128 | 141638 | 35.98 | ug/L | 98 |
| 32) Cyclohexane | 6.740 | 56 | 429909 | 34.98 | ug/L | 99 |
| 33) Chloroform | 6.740 | 83 | 530877 | 37.10 | ug/L | 96 |
| 34) Ethyl acetate | 6.807 | 43 | 785018 | 198.14 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:31:25 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) Tetrahydrofuran | 6.922 | 42 | 45689 | 37.82 ug/L | 96 |
| 37) Carbon Tetrachloride | 6.935 | 117 | 375448m | 33.68 ug/L | |
| 38) 1,1,1-Trichloroethane | 6.989 | 97 | 426033 | 33.16 ug/L | 97 |
| 39) 2-Butanone | 7.026 | 43 | 351523 | 189.03 ug/L | 99 |
| 40) 1,1-Dichloropropene | 7.105 | 75 | 347071 | 34.69 ug/L | 98 |
| 41) tert-Butyl Formate | 7.190 | 59 | 1728708 | 364.54 ug/L | 99 |
| 42) Propionitrile | 7.330 | 54 | 261142 | 410.61 ug/L # | 70 |
| 43) Methacrylonitrile | 7.360 | 41 | 1079467 | 407.37 ug/L | 99 |
| 44) Benzene | 7.360 | 78 | 1186114 | 37.62 ug/L | 96 |
| 45) TAME | 7.433 | 73 | 792776 | 36.13 ug/L | 99 |
| 47) 1,2-Dichloroethane | 7.549 | 62 | 393340 | 39.11 ug/L | 99 |
| 48) Trichloroethene | 7.938 | 95 | 300297 | 37.60 ug/L | 97 |
| 49) Methylcyclohexane | 7.957 | 83 | 504162 | 36.49 ug/L | 98 |
| 50) Dibromomethane | 8.364 | 93 | 168157 | 37.52 ug/L | 91 |
| 51) 1,2-Dichloropropane | 8.449 | 63 | 289962 | 37.42 ug/L | 98 |
| 52) Bromodichloromethane | 8.498 | 83 | 393105 | 38.33 ug/L | 99 |
| 53) Methyl methacrylate | 8.589 | 41 | 167496 | 42.88 ug/L | 97 |
| 54) 2-Chloroethyl vinyl ether | 9.009 | 63 | 809987 | 212.37 ug/L | 99 |
| 55) cis-1,3-Dichloropropene | 9.112 | 75 | 479058 | 40.05 ug/L | 97 |
| 58) Toluene | 9.356 | 91 | 1248965 | 37.64 ug/L | 99 |
| 59) 2-Nitropropane | 9.557 | 41 | 230450 | 189.13 ug/L | 98 |
| 60) 4-Methyl-2-pentanone | 9.672 | 43 | 878633 | 180.68 ug/L | 99 |
| 61) trans-1,3-Dichloropropene | 9.733 | 75 | 443333 | 43.21 ug/L | 99 |
| 62) Tetrachloroethene | 9.757 | 166 | 302465 | 36.02 ug/L | 95 |
| 63) Ethyl methacrylate | 9.836 | 69 | 267032 | 35.00 ug/L | 96 |
| 64) 1,1,2-Trichloroethane | 9.903 | 83 | 214570 | 39.31 ug/L | 97 |
| 65) Dibromochloromethane | 10.104 | 129 | 287616 | 39.10 ug/L | 98 |
| 66) 1,3-Dichloropropane | 10.183 | 76 | 406428 | 36.73 ug/L | 98 |
| 67) 1,2-Dibromoethane | 10.360 | 107 | 239106 | 37.86 ug/L | 96 |
| 68) 2-hexanone | 10.487 | 43 | 608524 | 181.62 ug/L | 100 |
| 69) 1-Chlorohexane | 10.798 | 91 | 383677 | 38.47 ug/L | 98 |
| 70) Ethylbenzene | 10.858 | 91 | 1467233 | 37.75 ug/L | 99 |
| 71) Chlorobenzene | 10.865 | 112 | 882806 | 38.98 ug/L | 98 |
| 72) 1,1,1,2-Tetrachloroethane | 10.913 | 131 | 305355 | 40.09 ug/L | 98 |
| 73) m,p-Xylene | 10.998 | 91 | 2248202 | 77.44 ug/L | 99 |
| 74) o-Xylene | 11.436 | 91 | 1187233 | 39.43 ug/L | 98 |
| 75) Styrene | 11.485 | 104 | 952106 | 40.99 ug/L | 100 |
| 76) Bromoform | 11.546 | 173 | 187716 | 39.39 ug/L | 98 |
| 77) Isopropylbenzene | 11.741 | 105 | 1401102 | 38.40 ug/L | 97 |
| 80) cis-1,4-Dichloro-2-butene | 12.087 | 53 | 74360 | 38.69 ug/L | 98 |
| 81) n-Propylbenzene | 12.160 | 91 | 1703243 | 38.37 ug/L | 99 |
| 82) Bromobenzene | 12.185 | 156 | 403309 | 39.45 ug/L | 97 |
| 83) 1,1,2,2-Tetrachloroethane | 12.221 | 83 | 310626 | 38.28 ug/L | 97 |
| 84) 1,3,5-Trimethylbenzene | 12.343 | 105 | 1263066 | 37.43 ug/L | 99 |
| 85) 2-Chlorotoluene | 12.349 | 91 | 1237344 | 39.22 ug/L | 99 |
| 86) trans-1,4-Dichloro-2-B... | 12.398 | 53 | 71234 | 38.95 ug/L # | 84 |
| 87) 1,2,3-Trichloropropane | 12.385 | 110 | 79814 | 37.13 ug/L | 94 |
| 88) Cyclohexanone | 12.446 | 55 | 32840 | 170.20 ug/L | 95 |
| 89) 4-Chlorotoluene | 12.519 | 91 | 1133979 | 38.69 ug/L | 99 |
| 90) a-Methyl Styrene | 12.750 | 118 | 13323 | 0.77 ug/L # | 1 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:31:25 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 91) tert-Butylbenzene | 12.684 | 91 | 687918 | 36.61 ug/L | 98 |
| 92) 1,2,4-Trimethylbenzene | 12.750 | 105 | 1282641 | 38.18 ug/L | 99 |
| 93) Pentachloroethane | 12.738 | 167 | 250604 | 39.60 ug/L | 94 |
| 94) sec-Butylbenzene | 12.866 | 105 | 1526433 | 37.81 ug/L | 99 |
| 95) 4-Isopropyltoluene | 13.000 | 119 | 1294509 | 39.12 ug/L | 99 |
| 96) 1,3-Dichlorobenzene | 13.134 | 146 | 700869 | 38.88 ug/L | 98 |
| 97) 1,4-Dichlorobenzene | 13.219 | 146 | 707826 | 38.03 ug/L | 99 |
| 98) n-Butylbenzene | 13.432 | 92 | 730057 | 38.47 ug/L | 99 |
| 99) Benzyl Chloride | 13.444 | 126 | 121327 | 40.70 ug/L # | 15 |
| 100) 1,2-Dichlorobenzene | 13.645 | 146 | 648028 | 38.67 ug/L | 99 |
| 101) 1,2-Dibromo-3-Chloropr... | 14.381 | 75 | 41598 | 37.92 ug/L | 94 |
| 102) Hexachlorobutadiene | 14.928 | 225 | 266442 | 36.35 ug/L | 99 |
| 103) 1,2,4-Trichlorobenzene | 14.971 | 180 | 430435 | 37.24 ug/L | 98 |
| 104) Naphthalene | 15.257 | 128 | 693902 | 41.04 ug/L | 98 |
| 105) 1,2,3-Trichlorobenzene | 15.427 | 180 | 359434 | 37.24 ug/L | 99 |
| 107) Ethanol | 4.288 | 45 | 36824m | 801.14 ug/L | |
| 108) acrolein | 4.757 | 56 | 165111 | 188.39 ug/L | 98 |
| 109) Tert Butyl Alcohol | 5.383 | 59 | 186295 | 406.30 ug/L | 89 |
| 110) tert Amyl alcohol | 7.573 | 59 | 139025 | 377.53 ug/L | 97 |
| 111) Isobutyl alcohol | 7.452 | 42 | 115720 | 719.33 ug/L | 93 |
| 112) 1,4-Dioxane | 8.674 | 88 | 39040 | 747.11 ug/L | 98 |
| 113) 3,3-Dimethyl-1-butanol | 10.433 | 57 | 790865 | 1961.92 ug/L | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.17

7

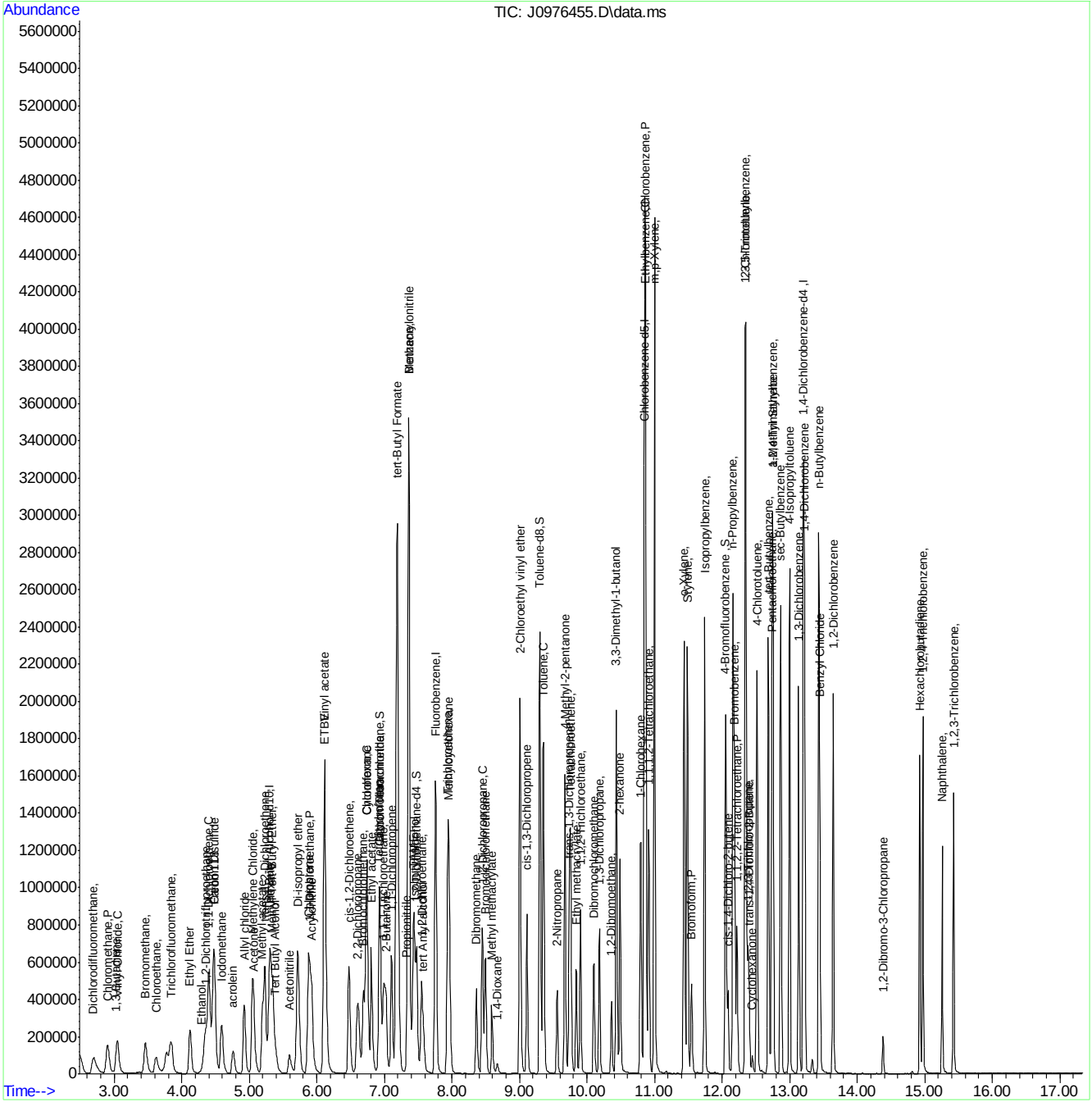


SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:31:25 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration










SGS ACCUTEST FA33878

# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | VJ5295-ICV5295 | **Method:** | SW846 8260B |
| **Lab FileID:** | J0976455.D | **Analyst approved:** | 05/13/16 08:33 Darshna Patel |
| **Injection Time:** | 05/12/16 13:22 | **Supervisor approved:** | 05/13/16 11:32 Melissa Mangual |

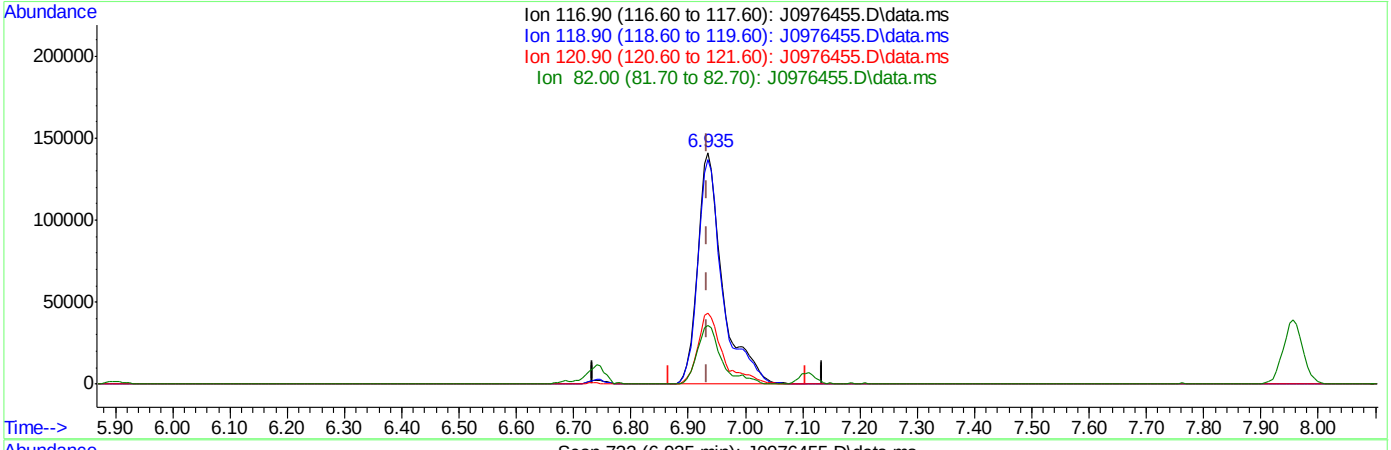
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichlorofluoromethane | 75-69-4 | | 3.84 | Split peak |
| Ethyl Alcohol | 64-17-5 | | 4.29 | Poor instrument integration |
| Carbon Tetrachloride | 56-23-5 | | 6.93 | Overlapping peak |

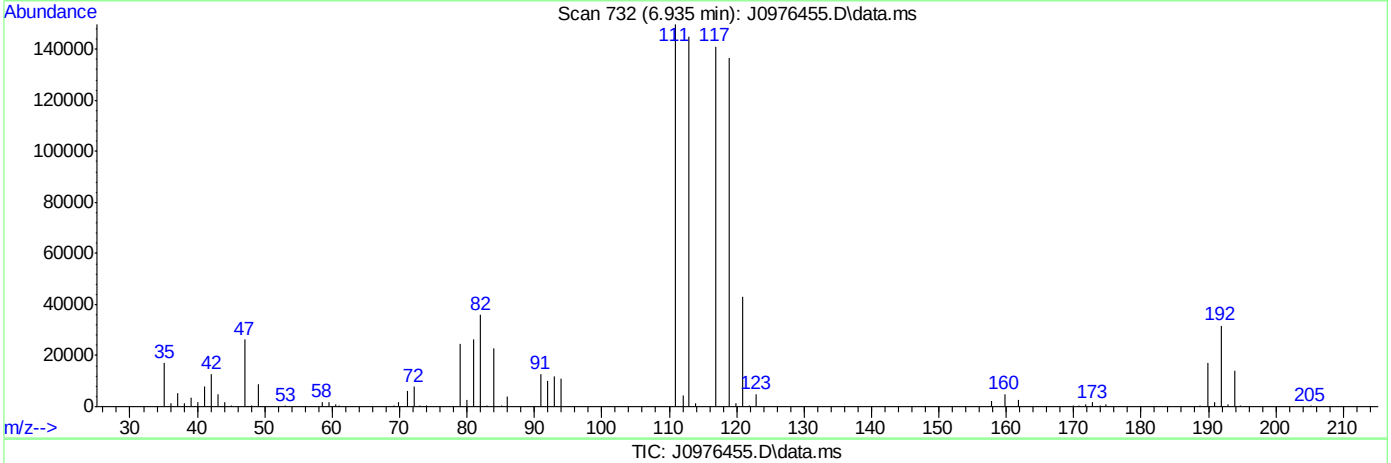
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 12 14:11:54 2016
Quant Method : C:\msdchem\2\methods\MSJ051216.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Thu May 12 14:11:46 2016
Response via : Initial Calibration






TIC: J0976455.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 38.49ug/L

response 430596

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 96.87 |
| 120.90 | 31.20 | 30.56 |
| 82.00 | 25.70 | 25.45 |



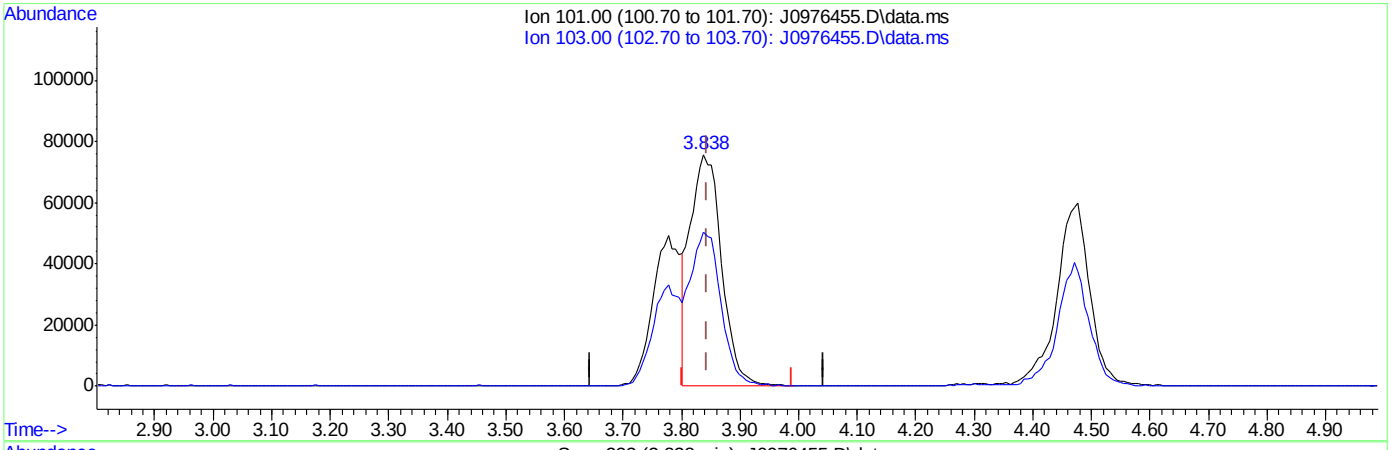
SGS ACCUTEST FA33878

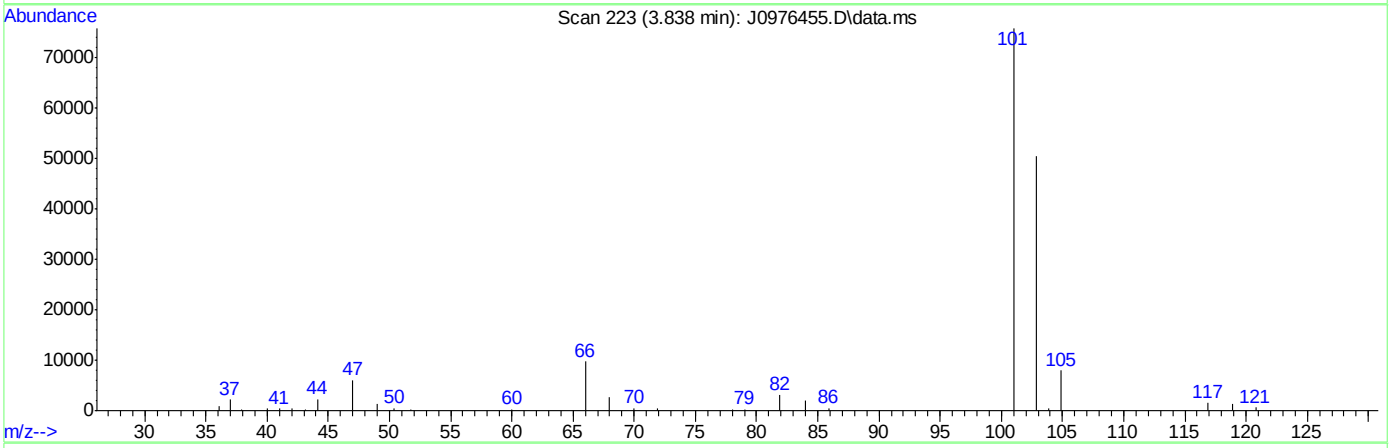
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:29:57 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration






TIC: J0976455.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.006) 27.54ug/L

response 281428

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 66.48 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



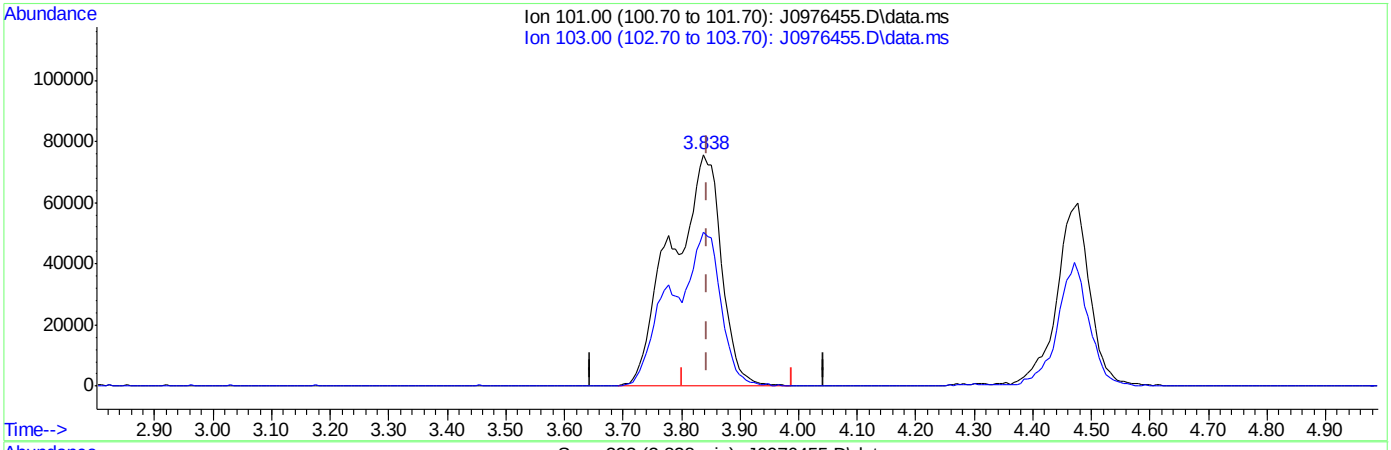
SGS ACCUTEST FA33878

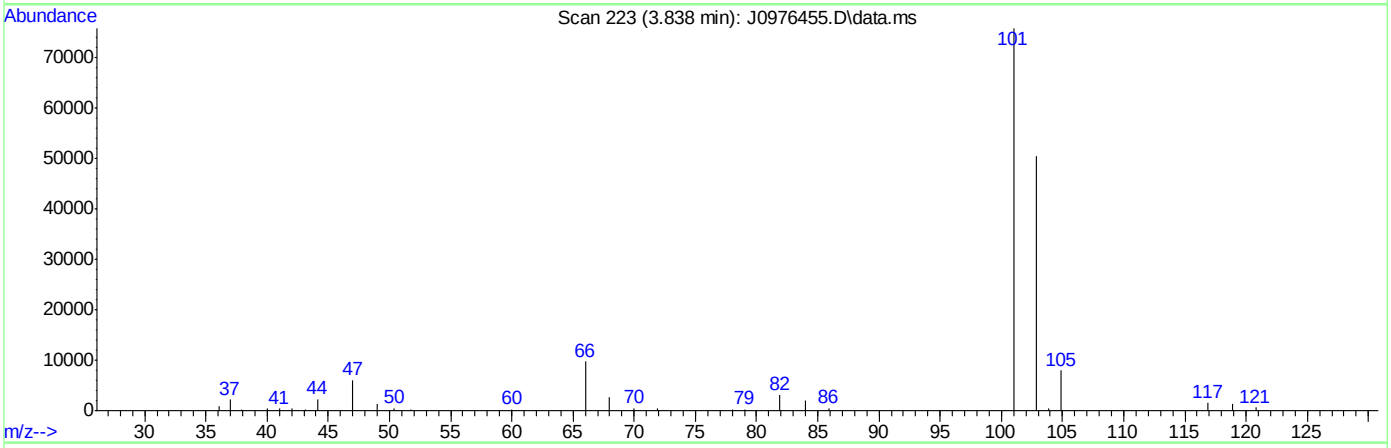
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:29:57 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration






(8) Trichlorofluoromethane ( )

3.838min (-0.006) 43.56ug/L m

response 445148

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 66.48 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



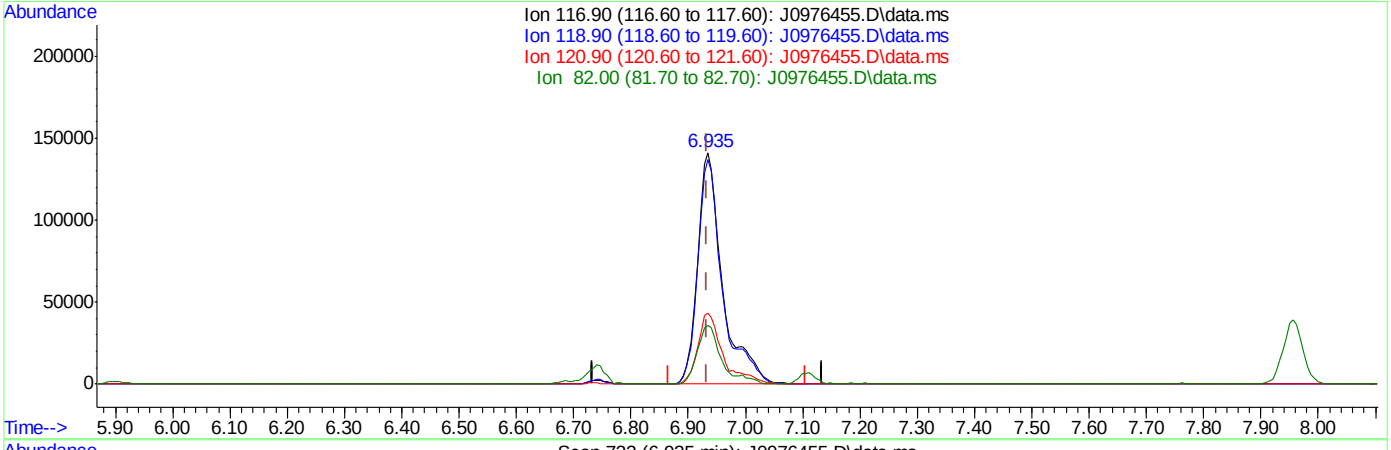
SGS ACCUTEST FA33878

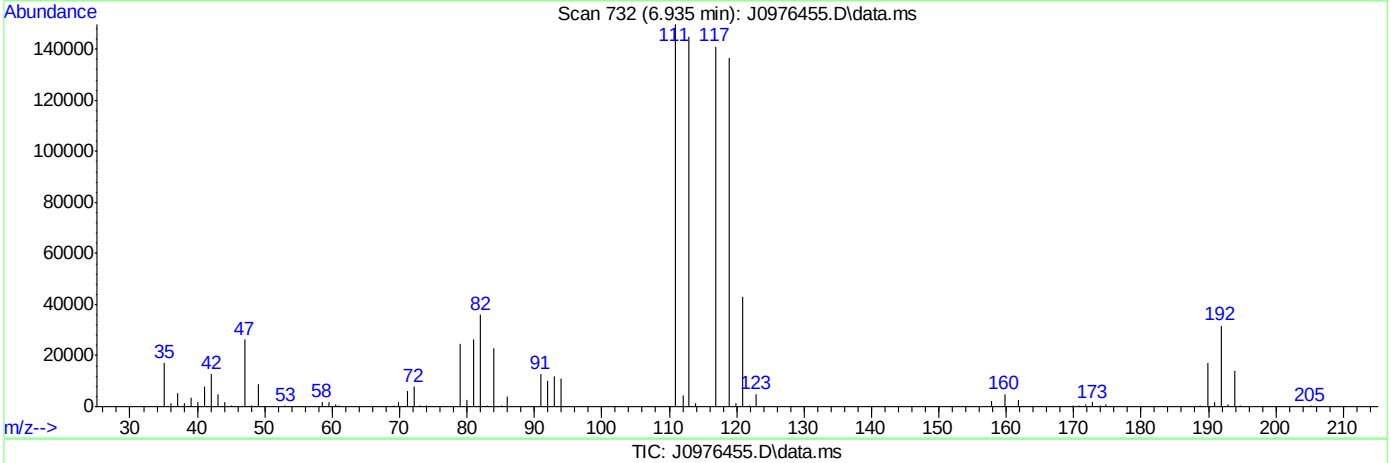
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:29:57 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration






TIC: J0976455.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 38.63ug/L

response 430596

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 96.87 |
| 120.90 | 31.20 | 30.56 |
| 82.00 | 25.70 | 25.45 |



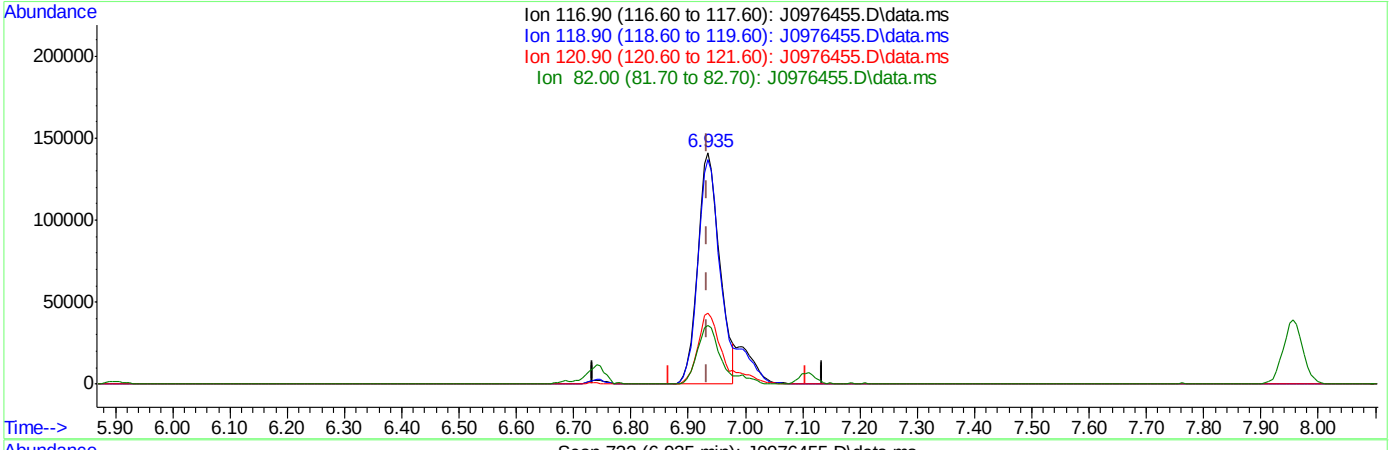
SGS ACCUTEST FA33878

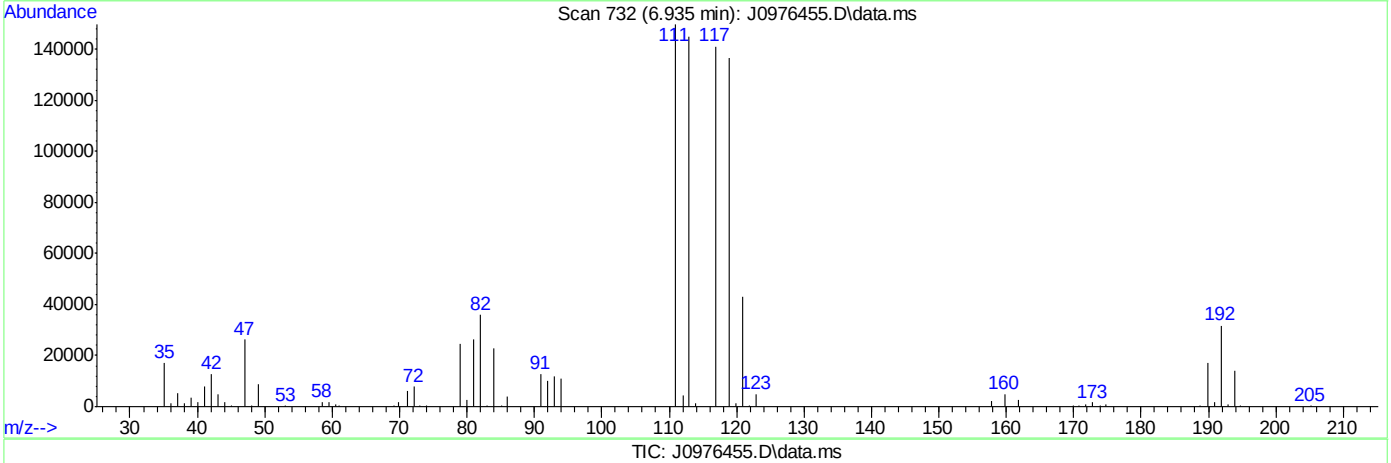
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:29:57 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration






TIC: J0976455.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 33.68ug/L m

response 375448

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 96.87 |
| 120.90 | 31.20 | 30.56 |
| 82.00 | 25.70 | 25.45 |



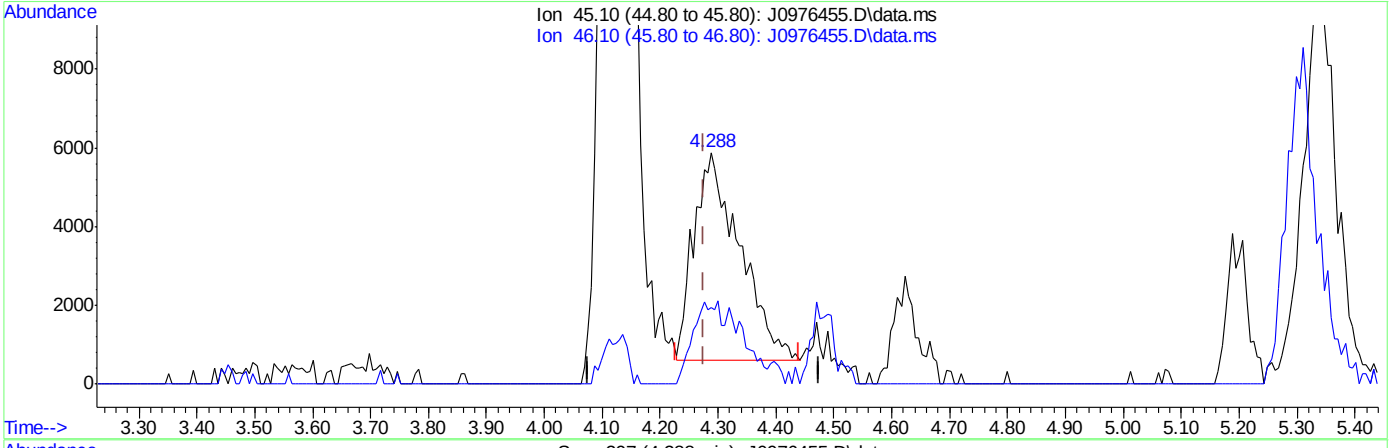
SGS ACCUTEST FA33878

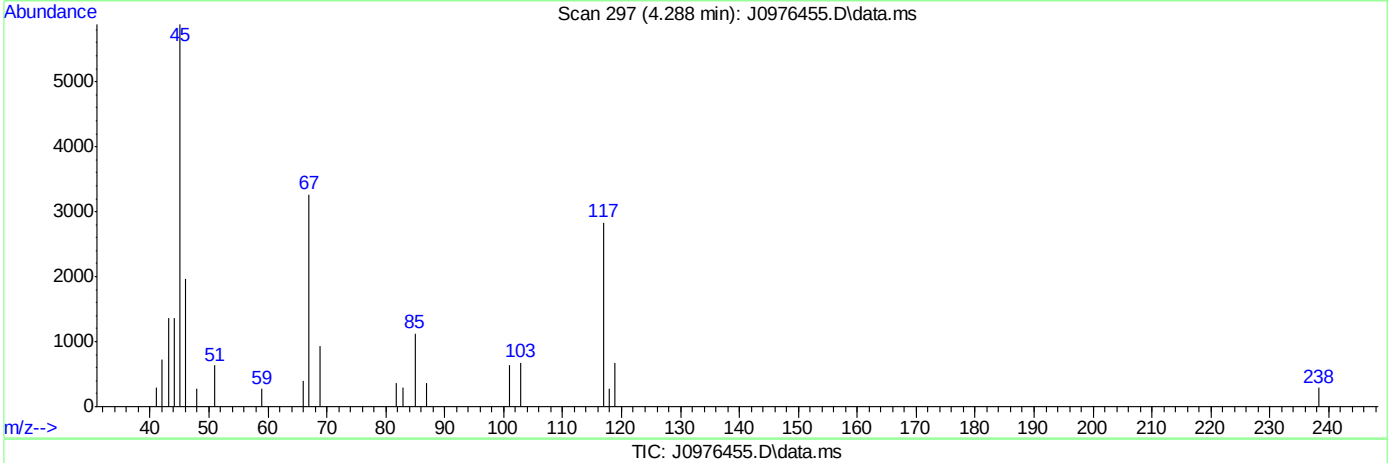
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:29:57 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration






TIC: J0976455.D\data.ms

(107) Ethanol

4.288min (+0.012) 633.53ug/L

response 29120

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 37.11 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



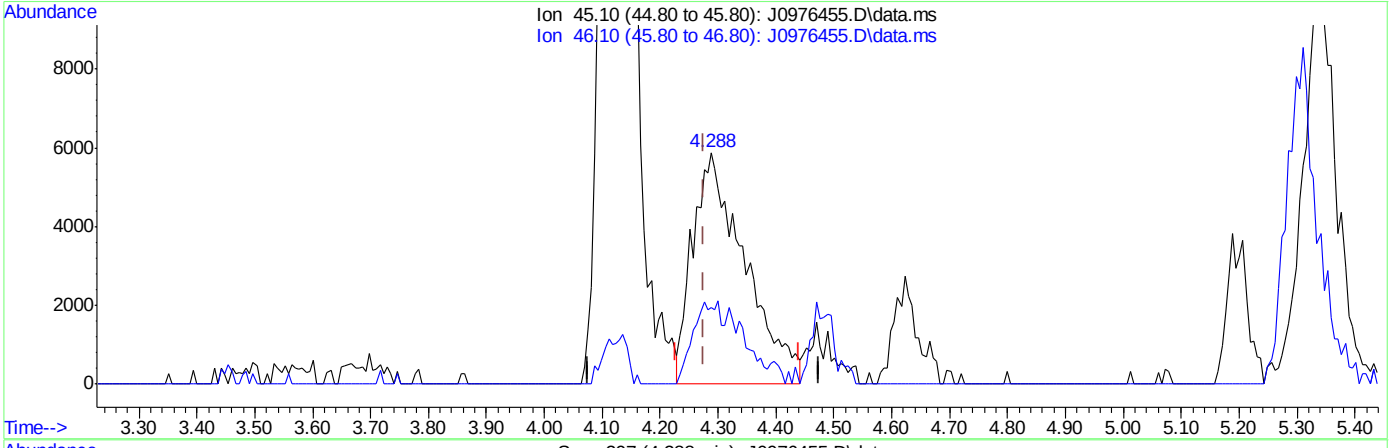
SGS ACCUTEST FA33878

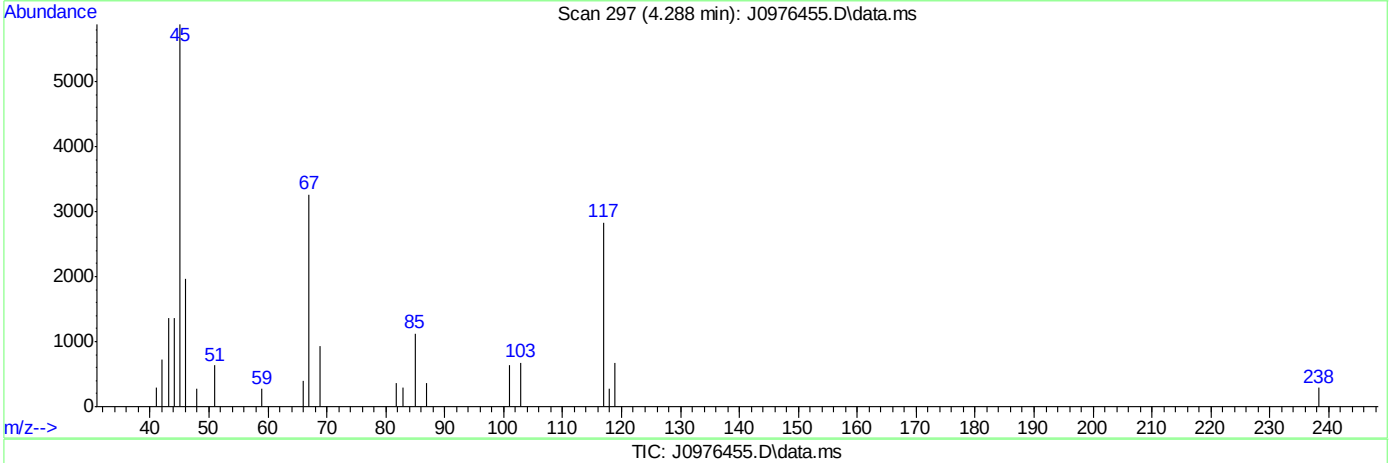
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976455.D
Acq On : 12 May 2016 1:22 pm
Operator : darshnap
Sample : icv5295-5 Inst : MSVOA6
Misc : MS33839,VJ5295,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 08:29:57 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration






TIC: J0976455.D\data.ms

(107) Ethanol

4.288min (+0.012) 801.14ug/L m

response 36824

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 33.30 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
05/13/16 11:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976465.D
Acq On : 12 May 2016 5:35 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 08:12:30 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1457501 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 1152431 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.207 | 152 | 648321 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.298 | 65 | 93828 | 250.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 36) Dibromofluoromethane | 6.928 | 113 | 355659 | 48.70 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 97.40% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.482 | 65 | 416312 | 48.76 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 97.52% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1447189 | 48.76 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 97.52% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 588410 | 49.78 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 99.56% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.694 | 85 | 287219 | 48.85 | ug/L | 95 |
| 3) Chloromethane | 2.901 | 50 | 347211 | 45.42 | ug/L | 98 |
| 4) Vinyl Chloride | 3.047 | 62 | 386825 | 47.25 | ug/L | 100 |
| 5) 1,3-Butadiene | 3.029 | 54 | 12036 | Below Cal # | | 79 |
| 6) Bromomethane | 3.461 | 94 | 216497 | 44.67 | ug/L | 100 |
| 7) Chloroethane | 3.613 | 64 | 159325 | 50.64 | ug/L | 95 |
| 8) Trichlorofluoromethane | 3.844 | 101 | 514173m | 49.29 | ug/L | |
| 9) Ethyl Ether | 4.124 | 59 | 224204 | 38.77 | ug/L | 98 |
| 10) 1,2-Dichlorotrifluoroe... | 4.355 | 67 | 365599 | 41.09 | ug/L | 94 |
| 11) 1,1-Dichloroethene | 4.404 | 61 | 474844 | 43.78 | ug/L | 98 |
| 12) Freon 113 | 4.471 | 101 | 328871 | 43.92 | ug/L | 96 |
| 13) Carbon Disulfide | 4.477 | 76 | 1073964 | 43.83 | ug/L | 100 |
| 14) Iodomethane | 4.586 | 142 | 514074 | 42.39 | ug/L | 99 |
| 15) Allyl chloride | 4.927 | 41 | 396956 | 42.15 | ug/L | 97 |
| 16) Methylene Chloride | 5.048 | 49 | 374999 | 38.49 | ug/L | 95 |
| 17) Acetone | 5.067 | 58 | 78943 | 176.30 | ug/L # | 75 |
| 18) Methyl acetate | 5.194 | 74 | 161922 | 192.22 | ug/L | 93 |
| 19) trans-1,2-Dichloroethene | 5.231 | 61 | 415486 | 41.75 | ug/L | 94 |
| 20) Hexane | 5.298 | 56 | 284551 | 42.62 | ug/L | 95 |
| 21) Methyl Tert Butyl Ether | 5.340 | 73 | 808544 | 37.84 | ug/L | 98 |
| 22) Acetonitrile | 5.596 | 40 | 110622 | 400.79 | ug/L | 89 |
| 23) Di-isopropyl ether | 5.718 | 45 | 901953 | 38.09 | ug/L | 99 |
| 24) Chloroprene | 5.876 | 53 | 460905 | 45.99 | ug/L | 95 |
| 25) 1,1-Dichloroethane | 5.900 | 63 | 548227 | 41.07 | ug/L | 95 |
| 26) Acrylonitrile | 5.924 | 53 | 337867 | 190.43 | ug/L | 97 |
| 27) ETBE | 6.119 | 59 | 957701 | 39.51 | ug/L | 97 |
| 28) Vinyl acetate | 6.107 | 43 | 2221472 | 203.85 | ug/L | 100 |
| 29) cis-1,2-Dichloroethene | 6.472 | 96 | 352199 | 40.97 | ug/L | 95 |
| 30) 2,2-Dichloropropane | 6.606 | 77 | 480599 | 42.96 | ug/L | 100 |
| 31) Bromochloromethane | 6.691 | 128 | 162101 | 40.36 | ug/L | 94 |
| 32) Cyclohexane | 6.734 | 56 | 580119 | 46.24 | ug/L | 97 |
| 33) Chloroform | 6.740 | 83 | 589485 | 40.43 | ug/L | 99 |
| 34) Ethyl acetate | 6.807 | 43 | 778120 | 192.41 | ug/L | 100 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976465.D
Acq On : 12 May 2016 5:35 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 08:12:30 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 35) | Tetrahydrofuran | 6.922 | 42 | 46282 | 37.53 | ug/L | | 96 |
| 37) | Carbon Tetrachloride | 6.934 | 117 | 463446m | 40.73 | ug/L | | |
| 38) | 1,1,1-Trichloroethane | 6.995 | 97 | 545378 | 41.59 | ug/L | | 97 |
| 39) | 2-Butanone | 7.026 | 43 | 359578 | 189.45 | ug/L | | 98 |
| 40) | 1,1-Dichloropropene | 7.105 | 75 | 437704 | 42.86 | ug/L | | 97 |
| 41) | tert-Butyl Formate | 7.190 | 59 | 1970914 | 400.04 | ug/L | | 99 |
| 42) | Propionitrile | 7.330 | 54 | 257819 | 397.16 | ug/L | # | 73 |
| 43) | Methacrylonitrile | 7.360 | 41 | 1058975 | 388.39 | ug/L | | 98 |
| 44) | Benzene | 7.360 | 78 | 1303951 | 40.67 | ug/L | | 99 |
| 45) | TAME | 7.433 | 73 | 871969 | 38.94 | ug/L | | 97 |
| 47) | 1,2-Dichloroethane | 7.549 | 62 | 394712 | 38.40 | ug/L | | 98 |
| 48) | Trichloroethene | 7.938 | 95 | 341771 | 42.01 | ug/L | | 96 |
| 49) | Methylcyclohexane | 7.956 | 83 | 643435 | 45.63 | ug/L | | 99 |
| 50) | Dibromomethane | 8.358 | 93 | 171173 | 37.42 | ug/L | | 98 |
| 51) | 1,2-Dichloropropane | 8.449 | 63 | 306952 | 38.85 | ug/L | | 98 |
| 52) | Bromodichloromethane | 8.498 | 83 | 411879 | 39.38 | ug/L | | 97 |
| 53) | Methyl methacrylate | 8.589 | 41 | 158888 | 39.88 | ug/L | | 98 |
| 54) | 2-Chloroethyl vinyl ether | 9.009 | 63 | 779450 | 199.91 | ug/L | | 99 |
| 55) | cis-1,3-Dichloropropene | 9.112 | 75 | 491502 | 40.26 | ug/L | | 93 |
| 58) | Toluene | 9.356 | 91 | 1390887 | 40.98 | ug/L | | 99 |
| 59) | 2-Nitropropane | 9.556 | 41 | 236318 | 188.76 | ug/L | | 99 |
| 60) | 4-Methyl-2-pentanone | 9.672 | 43 | 941508 | 189.07 | ug/L | | 99 |
| 61) | trans-1,3-Dichloropropene | 9.739 | 75 | 420275 | 39.87 | ug/L | | 98 |
| 62) | Tetrachloroethene | 9.757 | 166 | 356577 | 41.33 | ug/L | | 97 |
| 63) | Ethyl methacrylate | 9.836 | 69 | 318517 | 40.46 | ug/L | | 97 |
| 64) | 1,1,2-Trichloroethane | 9.903 | 83 | 221040 | 39.42 | ug/L | | 97 |
| 65) | Dibromochloromethane | 10.104 | 129 | 292388 | 38.69 | ug/L | | 99 |
| 66) | 1,3-Dichloropropane | 10.183 | 76 | 436083 | 38.42 | ug/L | | 99 |
| 67) | 1,2-Dibromoethane | 10.359 | 107 | 244099 | 37.62 | ug/L | | 95 |
| 68) | 2-hexanone | 10.487 | 43 | 653504 | 189.85 | ug/L | | 99 |
| 69) | 1-Chlorohexane | 10.797 | 91 | 468879 | 45.76 | ug/L | | 98 |
| 70) | Ethylbenzene | 10.858 | 91 | 1621227 | 40.88 | ug/L | | 100 |
| 71) | Chlorobenzene | 10.864 | 112 | 933085 | 40.17 | ug/L | | 97 |
| 72) | 1,1,1,2-Tetrachloroethane | 10.913 | 131 | 313397 | 40.05 | ug/L | | 98 |
| 73) | m,p-Xylene | 10.998 | 91 | 2456485 | 83.17 | ug/L | | 100 |
| 74) | o-Xylene | 11.436 | 91 | 1277084 | 41.29 | ug/L | | 100 |
| 75) | Styrene | 11.485 | 104 | 1011822 | 42.40 | ug/L | | 99 |
| 76) | Bromoform | 11.546 | 173 | 189263 | 38.66 | ug/L | | 97 |
| 77) | Isopropylbenzene | 11.740 | 105 | 1581763 | 42.43 | ug/L | | 98 |
| 80) | cis-1,4-Dichloro-2-butene | 12.087 | 53 | 78319 | 39.76 | ug/L | | 92 |
| 81) | n-Propylbenzene | 12.160 | 91 | 1893521 | 42.04 | ug/L | | 99 |
| 82) | Bromobenzene | 12.184 | 156 | 415540 | 39.67 | ug/L | | 99 |
| 83) | 1,1,2,2-Tetrachloroethane | 12.221 | 83 | 319776 | 38.46 | ug/L | | 99 |
| 84) | 1,3,5-Trimethylbenzene | 12.343 | 105 | 1427663 | 41.60 | ug/L | | 98 |
| 85) | 2-Chlorotoluene | 12.349 | 91 | 1300534 | 40.32 | ug/L | | 99 |
| 86) | trans-1,4-Dichloro-2-B... | 12.397 | 53 | 75381 | 38.03 | ug/L | | 99 |
| 87) | 1,2,3-Trichloropropane | 12.385 | 110 | 84489 | 38.41 | ug/L | | 97 |
| 88) | Cyclohexanone | 12.452 | 55 | 30155 | 152.55 | ug/L | | 92 |
| 89) | 4-Chlorotoluene | 12.519 | 91 | 1216837 | 40.65 | ug/L | | 98 |
| 90) | a-Methyl Styrene | 12.604 | 118 | 772007 | 42.84 | ug/L | | 99 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976465.D
Acq On : 12 May 2016 5:35 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 08:12:30 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 91) | tert-Butylbenzene | 12.683 | 91 | 804823 | 42.02 | ug/L | | 98 |
| 92) | 1,2,4-Trimethylbenzene | 12.750 | 105 | 1408161 | 41.13 | ug/L | | 99 |
| 93) | Pentachloroethane | 12.738 | 167 | 269124 | 41.46 | ug/L | | 96 |
| 94) | sec-Butylbenzene | 12.866 | 105 | 1749395 | 42.71 | ug/L | | 98 |
| 95) | 4-Isopropyltoluene | 13.000 | 119 | 1493232 | 42.56 | ug/L | | 99 |
| 96) | 1,3-Dichlorobenzene | 13.134 | 146 | 748133 | 40.55 | ug/L | | 98 |
| 97) | 1,4-Dichlorobenzene | 13.219 | 146 | 759546 | 39.92 | ug/L | | 99 |
| 98) | n-Butylbenzene | 13.432 | 92 | 851073 | 43.75 | ug/L | | 96 |
| 99) | Benzyl Chloride | 13.444 | 126 | 123042 | 40.28 | ug/L | # | 1 |
| 100) | 1,2-Dichlorobenzene | 13.645 | 146 | 680114 | 39.63 | ug/L | | 98 |
| 101) | 1,2-Dibromo-3-Chloropr... | 14.381 | 75 | 41223 | 36.68 | ug/L | | 96 |
| 102) | Hexachlorobutadiene | 14.928 | 225 | 311592 | 41.33 | ug/L | | 98 |
| 103) | 1,2,4-Trichlorobenzene | 14.971 | 180 | 457808 | 38.66 | ug/L | | 98 |
| 104) | Naphthalene | 15.257 | 128 | 665913 | 38.42 | ug/L | | 99 |
| 105) | 1,2,3-Trichlorobenzene | 15.427 | 180 | 385905 | 39.01 | ug/L | | 99 |
| 107) | Ethanol | 4.288 | 45 | 37131m | 800.29 | ug/L | | |
| 108) | acrolein | 4.756 | 56 | 167298 | 189.10 | ug/L | | 95 |
| 109) | Tert Butyl Alcohol | 5.377 | 59 | 179058 | 385.81 | ug/L | | 97 |
| 110) | tert Amyl alcohol | 7.573 | 59 | 139592 | 375.43 | ug/L | | 97 |
| 111) | Isobutyl alcohol | 7.458 | 42 | 123911 | 767.97 | ug/L | # | 88 |
| 112) | 1,4-Dioxane | 8.668 | 88 | 43763 | 833.58 | ug/L | | 98 |
| 113) | 3,3-Dimethyl-1-butanol | 10.432 | 57 | 785291 | 1928.33 | ug/L | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

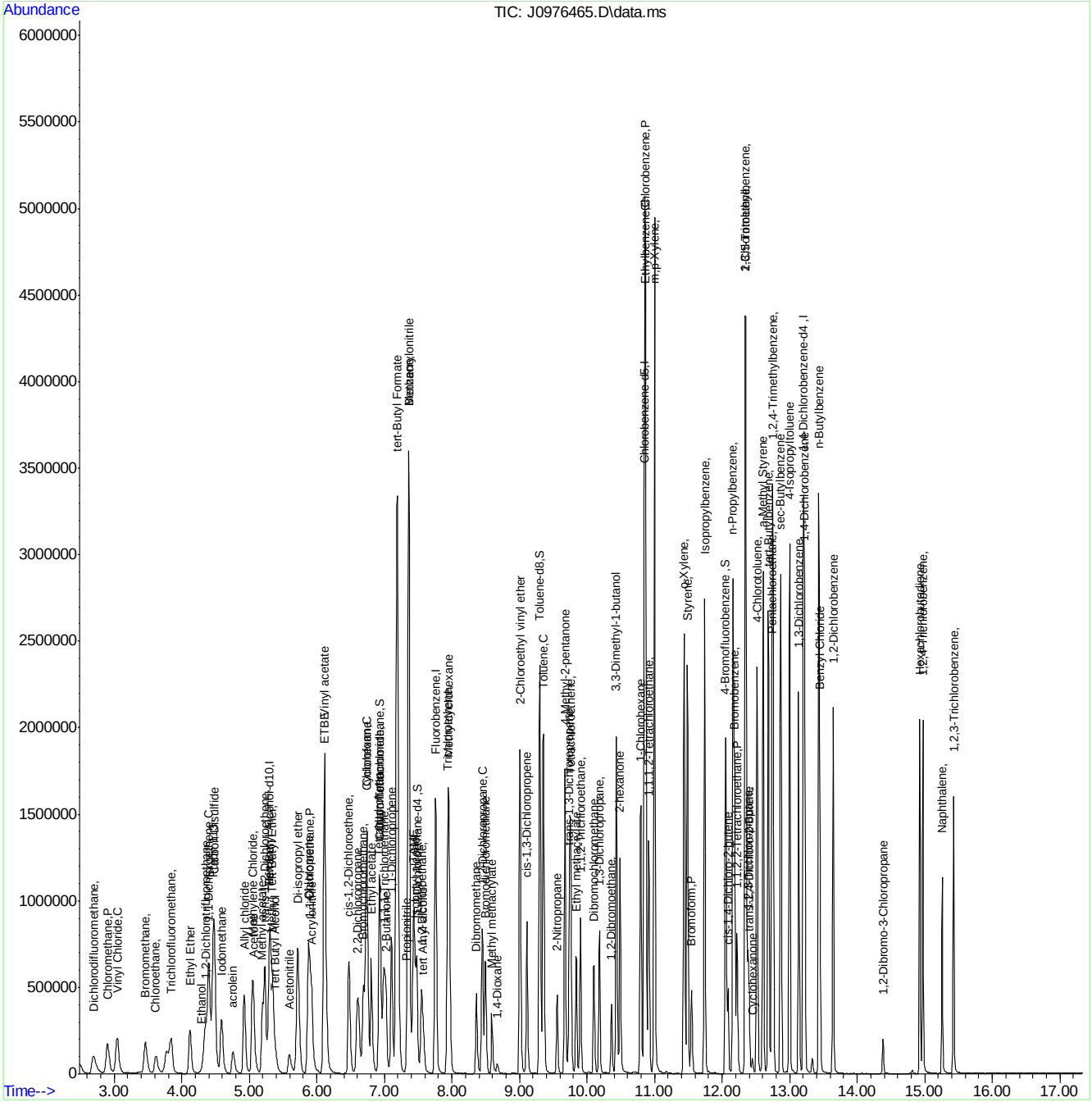



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976465.D
Acq On : 12 May 2016 5:35 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 08:12:30 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration










SGS ACCUTEST FA33878

# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | VJ5295-ECC5295 | **Method:** | SW846 8260B |
| **Lab FileID:** | J0976465.D | **Analyst approved:** | 05/13/16 09:57 Darshna Patel |
| **Injection Time:** | 05/12/16 17:35 | **Supervisor approved:** | 05/13/16 11:32 Melissa Mangual |

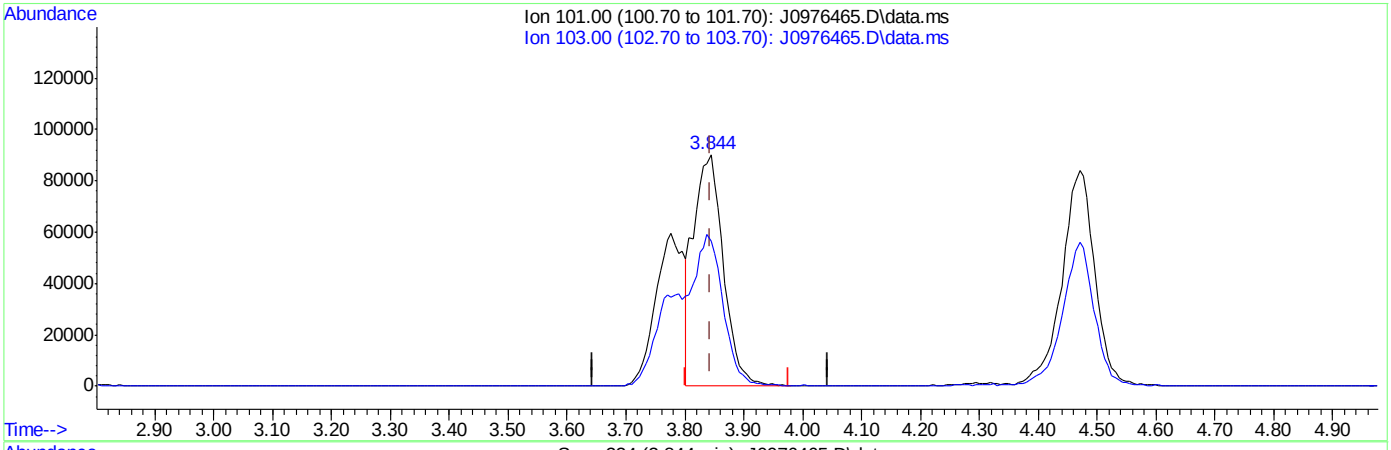
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichlorofluoromethane | 75-69-4 | | 3.84 | Split peak |
| Ethyl Alcohol | 64-17-5 | | 4.29 | Poor instrument integration |
| Carbon Tetrachloride | 56-23-5 | | 6.93 | Overlapping peak |

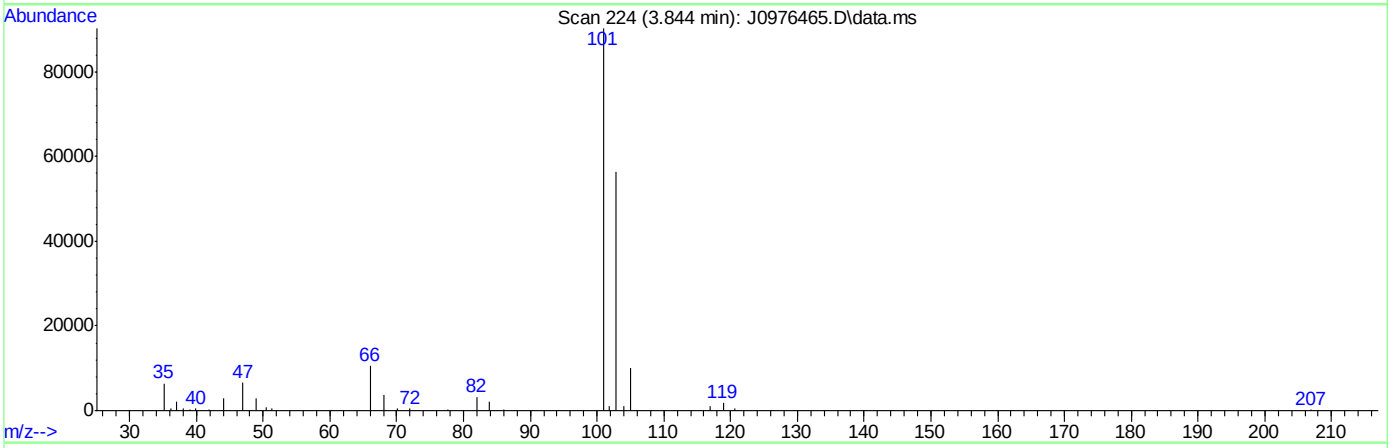
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976465.D
Acq On : 12 May 2016 5:35 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 08:01:47 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration






TIC: J0976465.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (-0.000) 30.24ug/L

response 315402

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 62.23 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



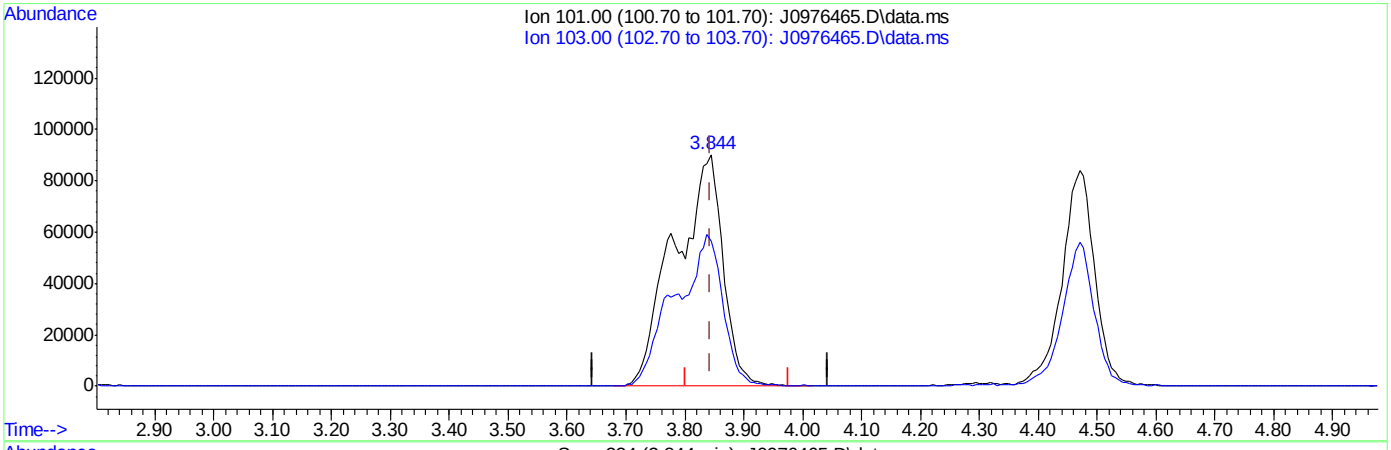
SGS ACCUTEST FA33878

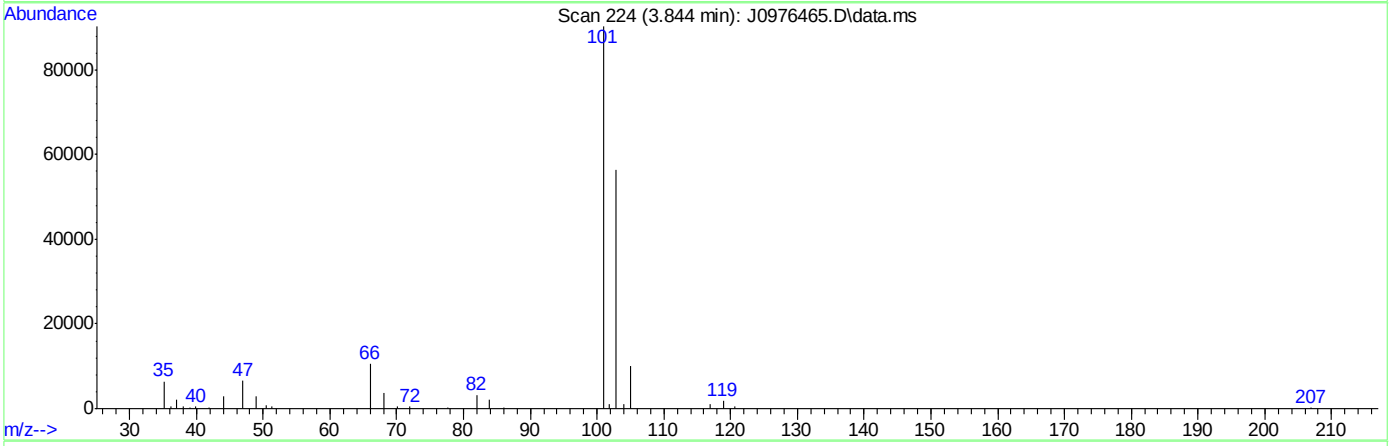
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976465.D
Acq On : 12 May 2016 5:35 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 08:01:47 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration






TIC: J0976465.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (-0.000) 49.29ug/L m

response 514173

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 62.57 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



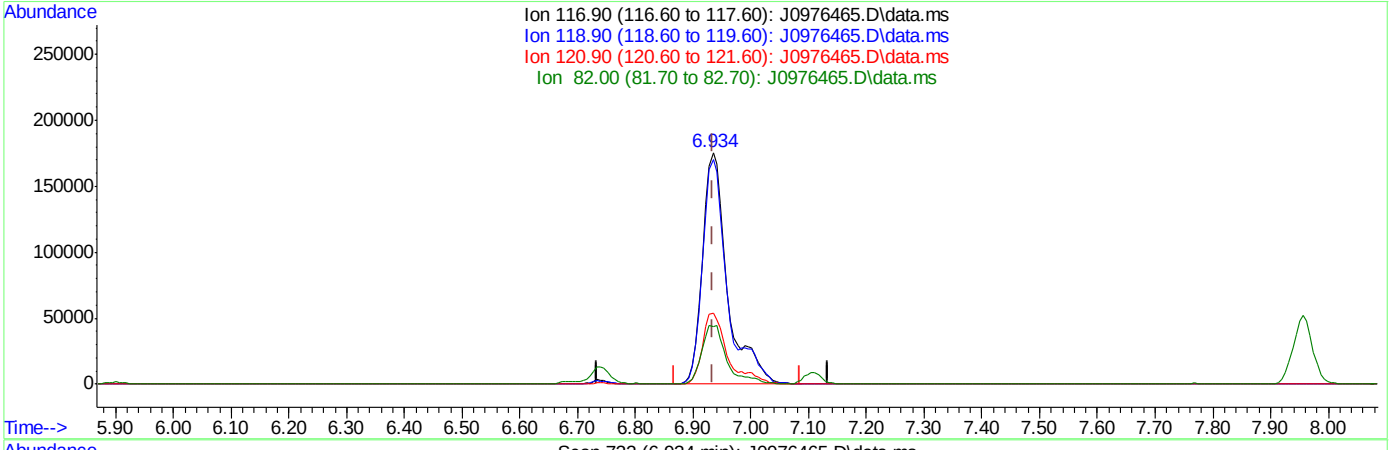
SGS ACCUTEST FA33878

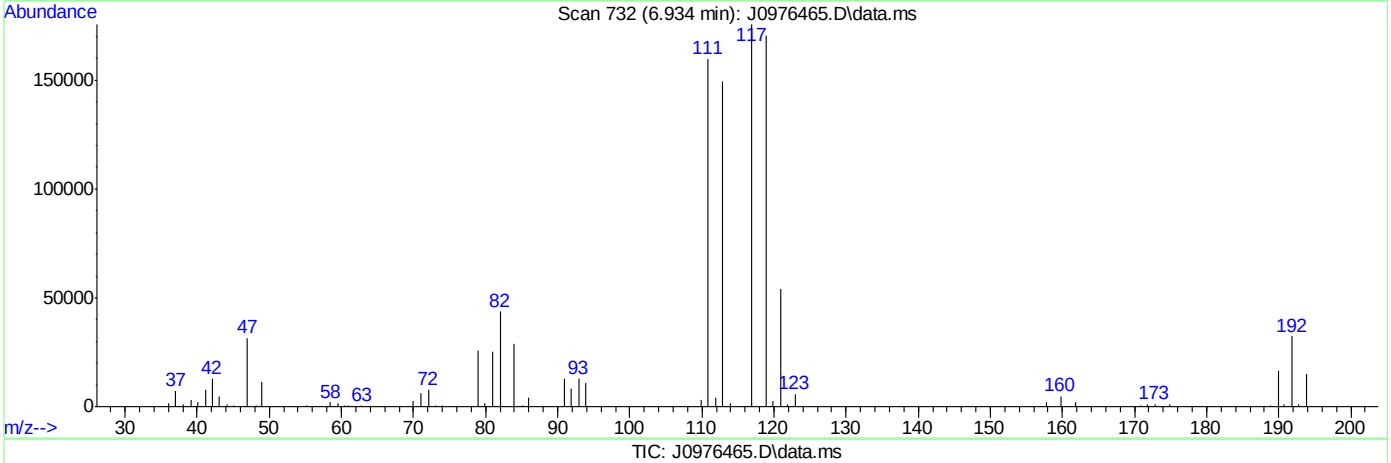
# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976465.D
Acq On : 12 May 2016 5:35 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 08:01:47 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration






TIC: J0976465.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 46.62ug/L

response 530460

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 97.16 |
| 120.90 | 31.20 | 30.85 |
| 82.00 | 25.70 | 24.81 |



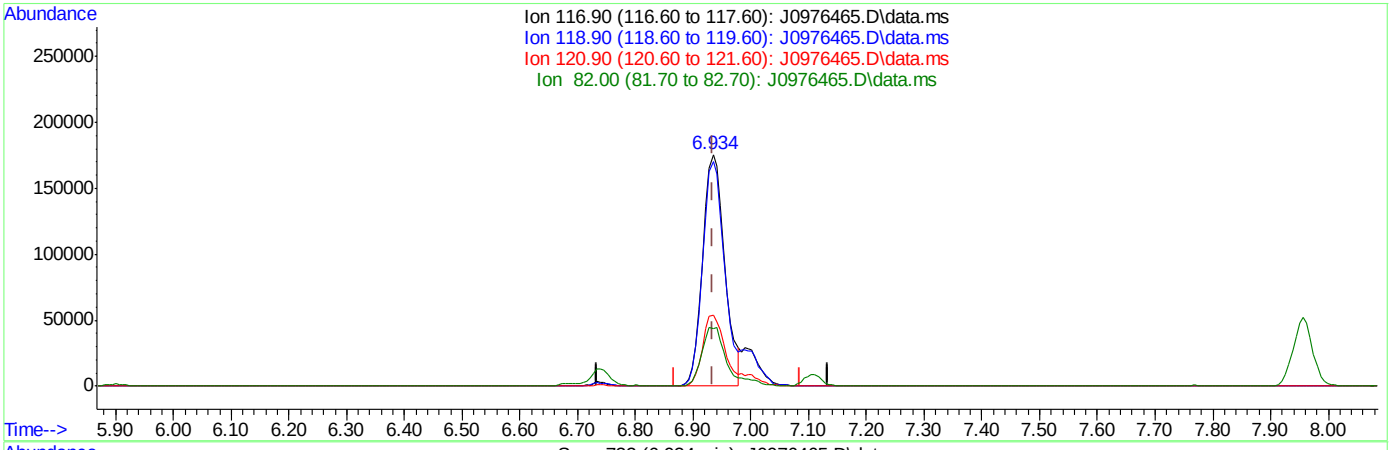
SGS ACCUTEST FA33878

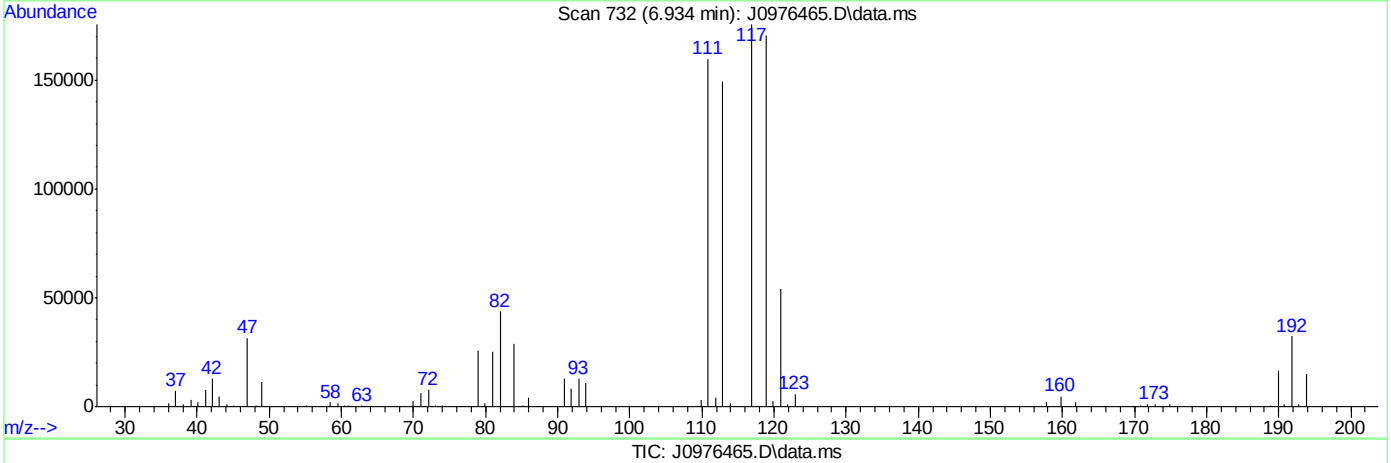
# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976465.D
Acq On : 12 May 2016 5:35 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 08:01:47 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration






TIC: J0976465.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 40.73ug/L m

response 463446

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 97.16 |
| 120.90 | 31.20 | 30.85 |
| 82.00 | 25.70 | 24.81 |

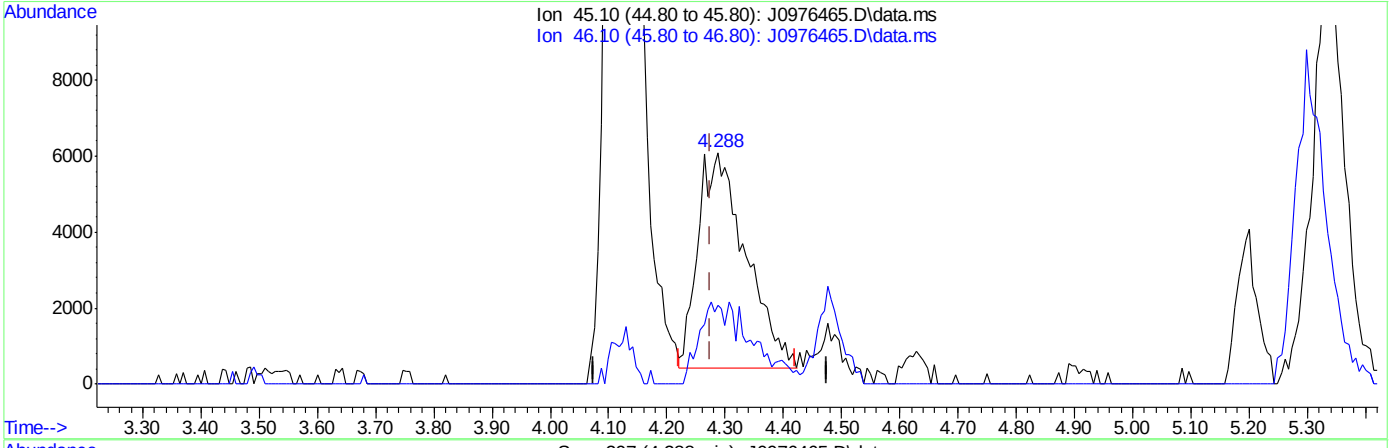


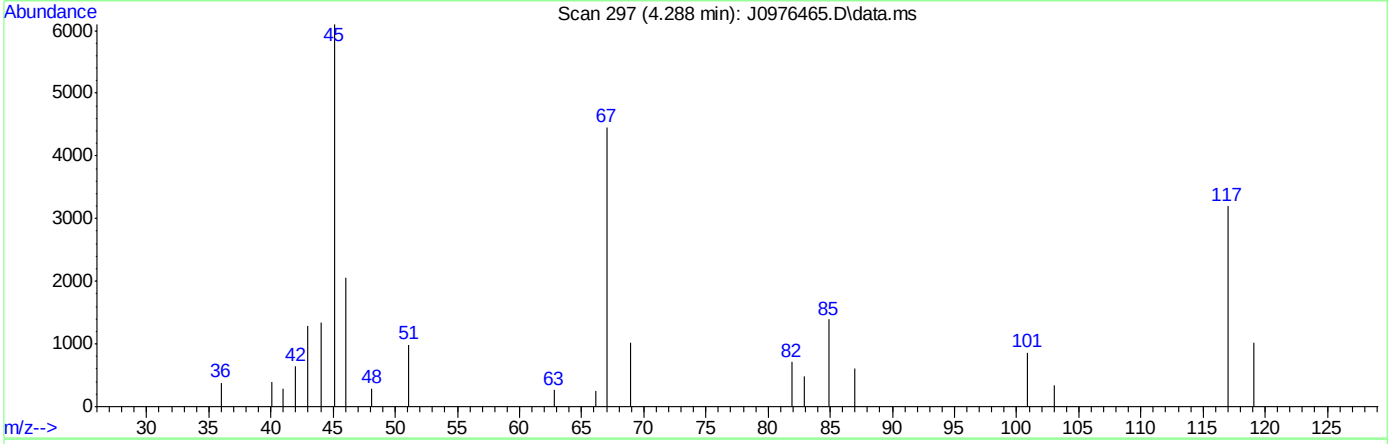
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976465.D
Acq On : 12 May 2016 5:35 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 08:01:47 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration




TIC: J0976465.D\data.ms

(107) Ethanol

4.288min (+0.012) 686.83ug/L

response 31867

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 36.48 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



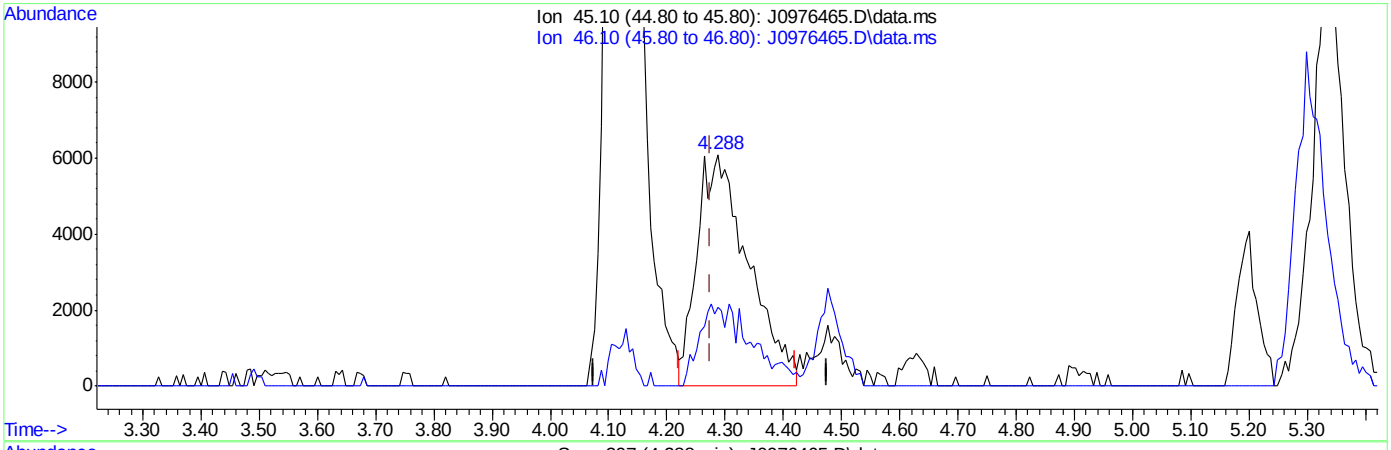
SGS ACCUTEST FA33878

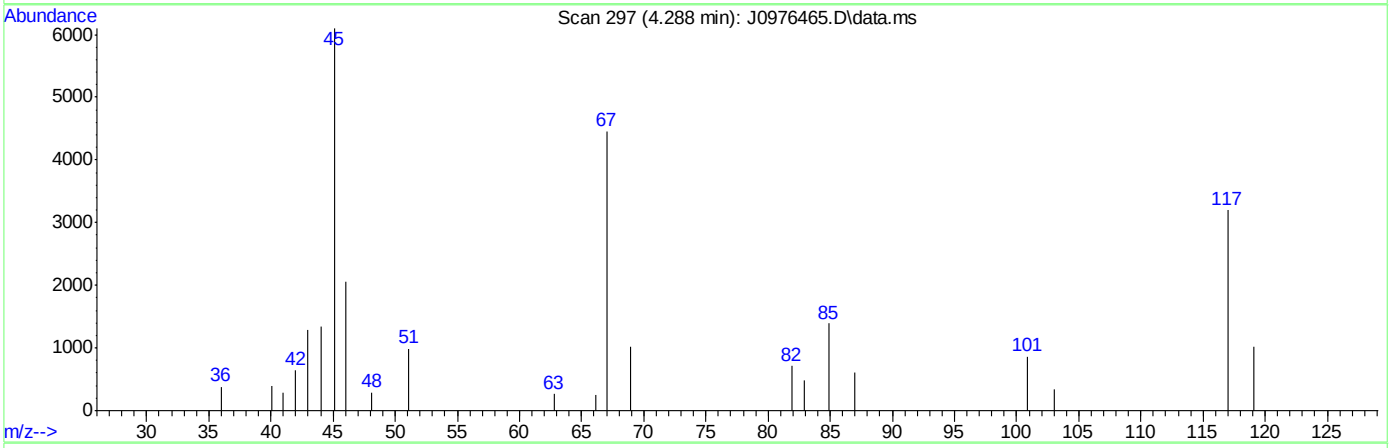
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051216\
Data File : J0976465.D
Acq On : 12 May 2016 5:35 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33859,VJ5295,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 13 08:01:47 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 07:47:13 2016
Response via : Initial Calibration






TIC: J0976465.D\data.ms

(107) Ethanol

4.288min (+0.012) 800.29ug/L m

response 37131

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 33.86 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/16/16 11:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976468.D
Acq On : 13 May 2016 8:58 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5296,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 09:08:27 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1454548 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 1131211 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.207 | 152 | 643746 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.298 | 65 | 98546 | 250.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 36) Dibromofluoromethane | 6.922 | 113 | 360237 | 49.43 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 98.86% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.476 | 65 | 413096 | 48.48 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 96.96% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1451118 | 49.81 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 99.62% | | | |
| 79) 4-Bromofluorobenzene | 12.057 | 95 | 585577 | 49.89 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 99.78% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.694 | 85 | 222849 | 38.54 | ug/L | 100 |
| 3) Chloromethane | 2.901 | 50 | 295170 | 39.04 | ug/L | 97 |
| 4) Vinyl Chloride | 3.041 | 62 | 309798 | 37.90 | ug/L | 93 |
| 5) 1,3-Butadiene | 3.035 | 54 | 5510 | 29.11 | ug/L | 88 |
| 6) Bromomethane | 3.455 | 94 | 186886 | 37.75 | ug/L | 99 |
| 7) Chloroethane | 3.619 | 64 | 136197 | 39.55 | ug/L | 88 |
| 8) Trichlorofluoromethane | 3.838 | 101 | 409745m | 39.36 | ug/L | |
| 9) Ethyl Ether | 4.118 | 59 | 219045 | 37.95 | ug/L | 95 |
| 10) 1,2-Dichlorotrifluoroe... | 4.361 | 67 | 308414 | 34.73 | ug/L | 97 |
| 11) 1,1-Dichloroethene | 4.398 | 61 | 402894 | 37.35 | ug/L | 98 |
| 12) Freon 113 | 4.465 | 101 | 276279 | 37.07 | ug/L | 97 |
| 13) Carbon Disulfide | 4.471 | 76 | 884611 | 36.41 | ug/L | 100 |
| 14) Iodomethane | 4.586 | 142 | 453602 | 37.63 | ug/L | 98 |
| 15) Allyl chloride | 4.921 | 41 | 379247 | 40.45 | ug/L | 94 |
| 16) Methylene Chloride | 5.042 | 49 | 363002 | 37.30 | ug/L | 98 |
| 17) Acetone | 5.067 | 58 | 82501 | 184.62 | ug/L # | 76 |
| 18) Methyl acetate | 5.188 | 74 | 153255 | 182.30 | ug/L | 95 |
| 19) trans-1,2-Dichloroethene | 5.225 | 61 | 357225 | 36.01 | ug/L | 98 |
| 20) Hexane | 5.292 | 56 | 238815 | 34.62 | ug/L | 97 |
| 21) Methyl Tert Butyl Ether | 5.334 | 73 | 744737 | 34.93 | ug/L | 94 |
| 22) Acetonitrile | 5.590 | 40 | 117264 | 425.14 | ug/L | 93 |
| 23) Di-isopropyl ether | 5.712 | 45 | 823521 | 34.85 | ug/L | 98 |
| 24) Chloroprene | 5.870 | 53 | 419939 | 42.33 | ug/L | 98 |
| 25) 1,1-Dichloroethane | 5.894 | 63 | 480704 | 36.01 | ug/L | 97 |
| 26) Acrylonitrile | 5.918 | 53 | 350265 | 197.82 | ug/L | 94 |
| 27) ETBE | 6.113 | 59 | 890245 | 36.80 | ug/L | 97 |
| 28) Vinyl acetate | 6.101 | 43 | 2231291 | 205.17 | ug/L | 99 |
| 29) cis-1,2-Dichloroethene | 6.472 | 96 | 308677 | 36.04 | ug/L | 99 |
| 30) 2,2-Dichloropropane | 6.600 | 77 | 399134 | 35.75 | ug/L | 100 |
| 31) Bromochloromethane | 6.679 | 128 | 146530 | 36.54 | ug/L | 97 |
| 32) Cyclohexane | 6.734 | 56 | 462003 | 36.90 | ug/L | 98 |
| 33) Chloroform | 6.734 | 83 | 529517 | 36.31 | ug/L | 99 |
| 34) Ethyl acetate | 6.801 | 43 | 791092 | 196.02 | ug/L | 99 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976468.D
Acq On : 13 May 2016 8:58 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5296,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 09:08:27 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 35) Tetrahydrofuran | 6.910 | 42 | 43487 | 35.36 | ug/L | 89 |
| 37) Carbon Tetrachloride | 6.928 | 117 | 394995m | 34.78 | ug/L | |
| 38) 1,1,1-Trichloroethane | 6.989 | 97 | 456276 | 34.86 | ug/L | 97 |
| 39) 2-Butanone | 7.020 | 43 | 357695 | 188.82 | ug/L | 98 |
| 40) 1,1-Dichloropropene | 7.099 | 75 | 369191 | 36.23 | ug/L | 98 |
| 41) tert-Butyl Formate | 7.184 | 59 | 2003321 | 414.72 | ug/L | 98 |
| 42) Propionitrile | 7.330 | 54 | 277853 | 428.89 | ug/L | 83 |
| 43) Methacrylonitrile | 7.354 | 41 | 1153141 | 427.21 | ug/L | 98 |
| 44) Benzene | 7.354 | 78 | 1163921 | 36.17 | ug/L | 95 |
| 45) TAME | 7.427 | 73 | 830741 | 37.17 | ug/L | 98 |
| 47) 1,2-Dichloroethane | 7.543 | 62 | 379301 | 36.88 | ug/L | 99 |
| 48) Trichloroethene | 7.932 | 95 | 290091 | 35.62 | ug/L | 96 |
| 49) Methylcyclohexane | 7.956 | 83 | 522220 | 37.11 | ug/L | 99 |
| 50) Dibromomethane | 8.358 | 93 | 164443 | 36.02 | ug/L | 95 |
| 51) 1,2-Dichloropropane | 8.443 | 63 | 284753 | 36.05 | ug/L | 99 |
| 52) Bromodichloromethane | 8.492 | 83 | 376812 | 36.02 | ug/L | 99 |
| 53) Methyl methacrylate | 8.589 | 41 | 167972 | 42.22 | ug/L | 98 |
| 54) 2-Chloroethyl vinyl ether | 9.003 | 63 | 783169 | 201.31 | ug/L | 99 |
| 55) cis-1,3-Dichloropropene | 9.106 | 75 | 454692 | 37.32 | ug/L | 99 |
| 58) Toluene | 9.350 | 91 | 1215727 | 36.26 | ug/L | 97 |
| 59) 2-Nitropropane | 9.556 | 41 | 234482 | 190.88 | ug/L | 98 |
| 60) 4-Methyl-2-pentanone | 9.672 | 43 | 941321 | 192.87 | ug/L | 99 |
| 61) trans-1,3-Dichloropropene | 9.733 | 75 | 396290 | 38.30 | ug/L | 97 |
| 62) Tetrachloroethene | 9.757 | 166 | 304263 | 35.93 | ug/L | 98 |
| 63) Ethyl methacrylate | 9.836 | 69 | 337225 | 43.53 | ug/L | 99 |
| 64) 1,1,2-Trichloroethane | 9.903 | 83 | 206761 | 37.51 | ug/L | 98 |
| 65) Dibromochloromethane | 10.098 | 129 | 274589 | 37.01 | ug/L | 98 |
| 66) 1,3-Dichloropropane | 10.183 | 76 | 410701 | 36.81 | ug/L | 98 |
| 67) 1,2-Dibromoethane | 10.360 | 107 | 232108 | 36.44 | ug/L | 96 |
| 68) 2-hexanone | 10.487 | 43 | 665015 | 196.81 | ug/L | 98 |
| 69) 1-Chlorohexane | 10.791 | 91 | 393208 | 39.09 | ug/L | 96 |
| 70) Ethylbenzene | 10.858 | 91 | 1430292 | 36.38 | ug/L | 100 |
| 71) Chlorobenzene | 10.864 | 112 | 834712 | 36.43 | ug/L | 98 |
| 72) 1,1,1,2-Tetrachloroethane | 10.913 | 131 | 290683 | 37.84 | ug/L | 98 |
| 73) m,p-Xylene | 10.998 | 91 | 2159048 | 73.21 | ug/L | 98 |
| 74) o-Xylene | 11.436 | 91 | 1147726 | 37.80 | ug/L | 99 |
| 75) Styrene | 11.485 | 104 | 910886 | 38.88 | ug/L | 99 |
| 76) Bromoform | 11.546 | 173 | 176871 | 36.83 | ug/L | 98 |
| 77) Isopropylbenzene | 11.740 | 105 | 1343178 | 36.41 | ug/L | 98 |
| 80) cis-1,4-Dichloro-2-butene | 12.087 | 53 | 87351 | 44.66 | ug/L | 94 |
| 81) n-Propylbenzene | 12.160 | 91 | 1624593 | 35.69 | ug/L | 99 |
| 82) Bromobenzene | 12.185 | 156 | 380678 | 36.49 | ug/L | 95 |
| 83) 1,1,2,2-Tetrachloroethane | 12.221 | 83 | 306005 | 36.99 | ug/L | 100 |
| 84) 1,3,5-Trimethylbenzene | 12.343 | 105 | 1239633 | 36.01 | ug/L | 99 |
| 85) 2-Chlorotoluene | 12.349 | 91 | 1153653 | 35.64 | ug/L | 100 |
| 86) trans-1,4-Dichloro-2-B... | 12.398 | 53 | 73839 | 39.67 | ug/L | 95 |
| 87) 1,2,3-Trichloropropane | 12.379 | 110 | 79770 | 36.43 | ug/L | 91 |
| 88) Cyclohexanone | 12.446 | 55 | 40565 | 206.36 | ug/L | 96 |
| 89) 4-Chlorotoluene | 12.519 | 91 | 1073292 | 35.80 | ug/L | 99 |
| 90) a-Methyl Styrene | 12.604 | 118 | 758792 | 42.41 | ug/L | 99 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976468.D
Acq On : 13 May 2016 8:58 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5296,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 09:08:27 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| | Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|---|
| 91) | tert-Butylbenzene | 12.683 | 91 | 690831 | 36.11 | ug/L | | 99 |
| 92) | 1,2,4-Trimethylbenzene | 12.750 | 105 | 1238088 | 36.06 | ug/L | | 100 |
| 93) | Pentachloroethane | 12.738 | 167 | 277877 | 43.07 | ug/L | | 94 |
| 94) | sec-Butylbenzene | 12.866 | 105 | 1483345 | 35.96 | ug/L | | 99 |
| 95) | 4-Isopropyltoluene | 13.000 | 119 | 1279764 | 38.00 | ug/L | | 100 |
| 96) | 1,3-Dichlorobenzene | 13.134 | 146 | 659319 | 35.84 | ug/L | | 98 |
| 97) | 1,4-Dichlorobenzene | 13.219 | 146 | 679226 | 35.76 | ug/L | | 98 |
| 98) | n-Butylbenzene | 13.432 | 92 | 719532 | 37.25 | ug/L | | 98 |
| 99) | Benzyl Chloride | 13.450 | 126 | 120802 | 39.83 | ug/L | | 95 |
| 100) | 1,2-Dichlorobenzene | 13.645 | 146 | 620601 | 36.29 | ug/L | | 97 |
| 101) | 1,2-Dibromo-3-Chloropr... | 14.381 | 75 | 41877 | 37.52 | ug/L | | 93 |
| 102) | Hexachlorobutadiene | 14.928 | 225 | 270585 | 36.28 | ug/L | | 97 |
| 103) | 1,2,4-Trichlorobenzene | 14.971 | 180 | 419111 | 35.61 | ug/L | | 96 |
| 104) | Naphthalene | 15.257 | 128 | 620281 | 36.04 | ug/L | | 99 |
| 105) | 1,2,3-Trichlorobenzene | 15.427 | 180 | 351860 | 35.83 | ug/L | | 98 |
| 107) | Ethanol | 4.282 | 45 | 41662m | 854.95 | ug/L | | |
| 108) | acrolein | 4.750 | 56 | 174369 | 187.66 | ug/L | | 93 |
| 109) | Tert Butyl Alcohol | 5.377 | 59 | 173825 | 355.14 | ug/L | | 87 |
| 110) | tert Amyl alcohol | 7.573 | 59 | 140842 | 359.91 | ug/L | | 96 |
| 111) | Isobutyl alcohol | 7.452 | 42 | 128776 | 759.01 | ug/L | # | 81 |
| 112) | 1,4-Dioxane | 8.668 | 88 | 40168 | 724.17 | ug/L | | 98 |
| 113) | 3,3-Dimethyl-1-butanol | 10.432 | 57 | 817276 | 1909.93 | ug/L | | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

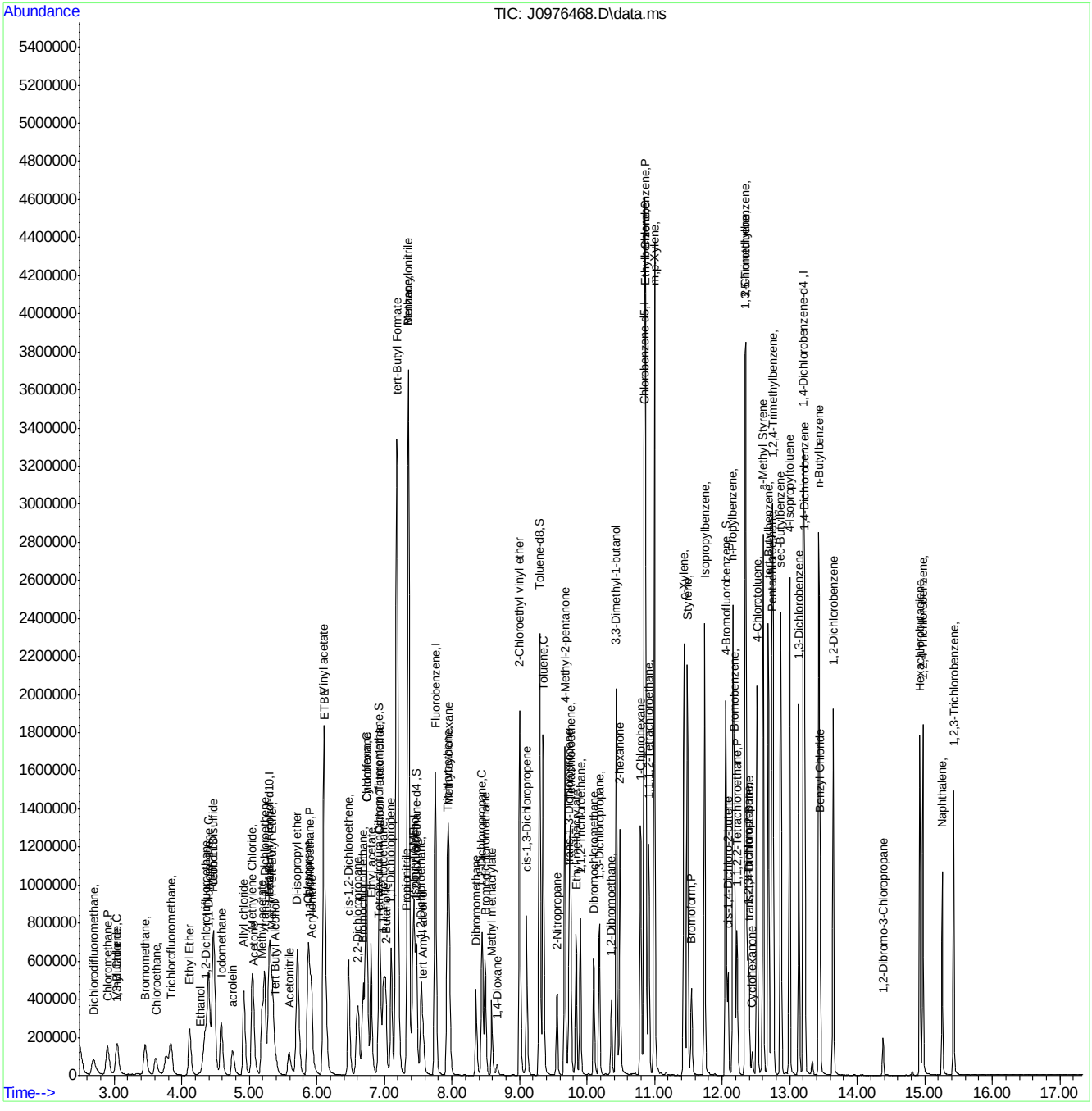



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976468.D
Acq On : 13 May 2016 8:58 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5296,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 16 09:08:27 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | VJ5296-CC5295 | **Method:** | SW846 8260B |
| **Lab FileID:** | J0976468.D | **Analyst approved:** | 05/16/16 10:08 Darshna Patel |
| **Injection Time:** | 05/13/16 08:58 | **Supervisor approved:** | 05/16/16 11:04 Juan Garcia |

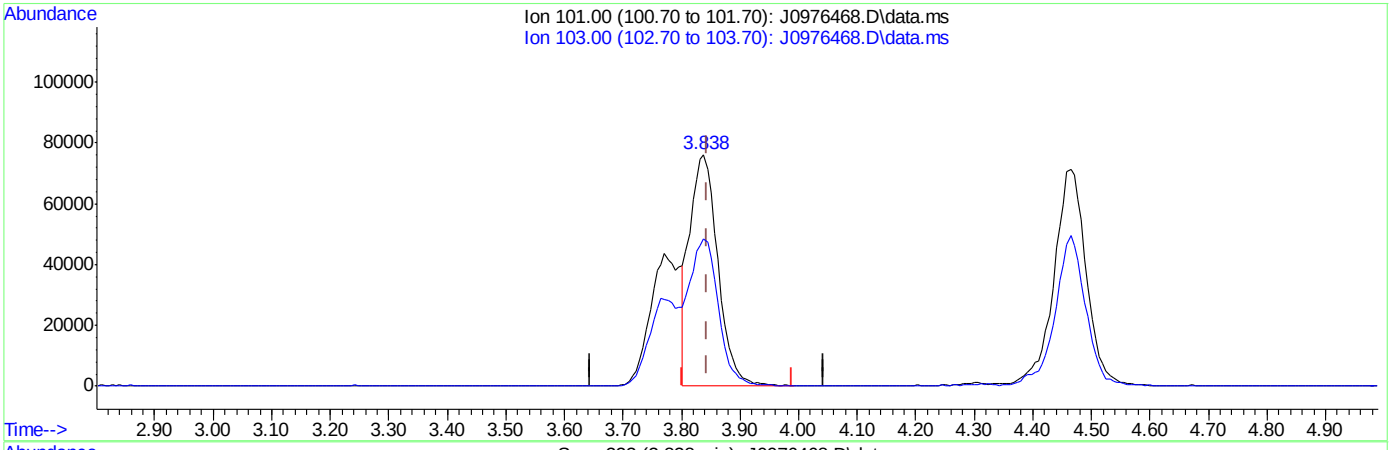
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichlorofluoromethane | 75-69-4 | | 3.84 | Split peak |
| Ethyl Alcohol | 64-17-5 | | 4.28 | Poor instrument integration |
| Carbon Tetrachloride | 56-23-5 | | 6.93 | Overlapping peak |

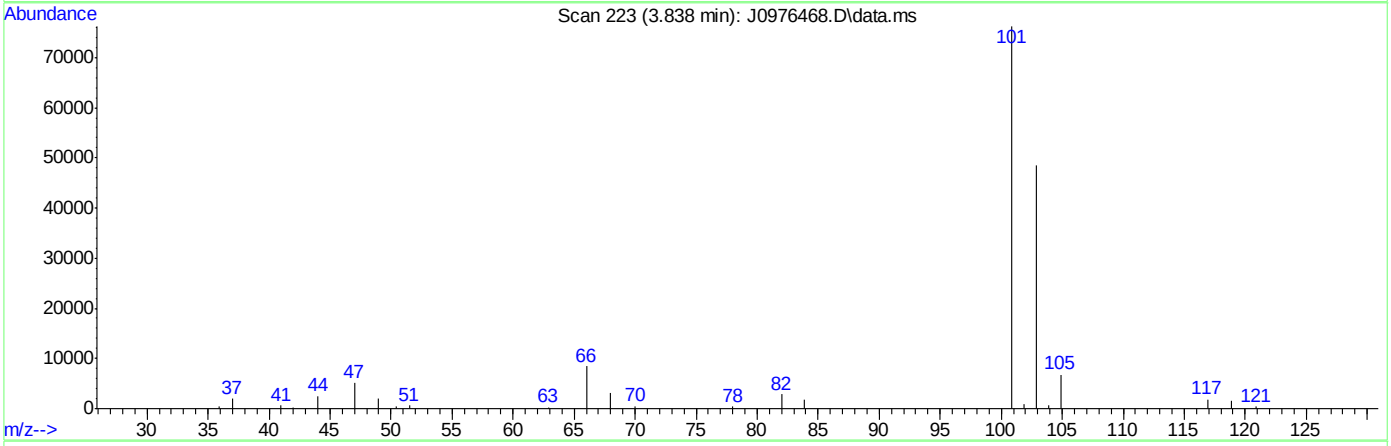
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976468.D
Acq On : 13 May 2016 8:58 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5296,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 09:34:43 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration






TIC: J0976468.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.006) 24.40ug/L

response 254065

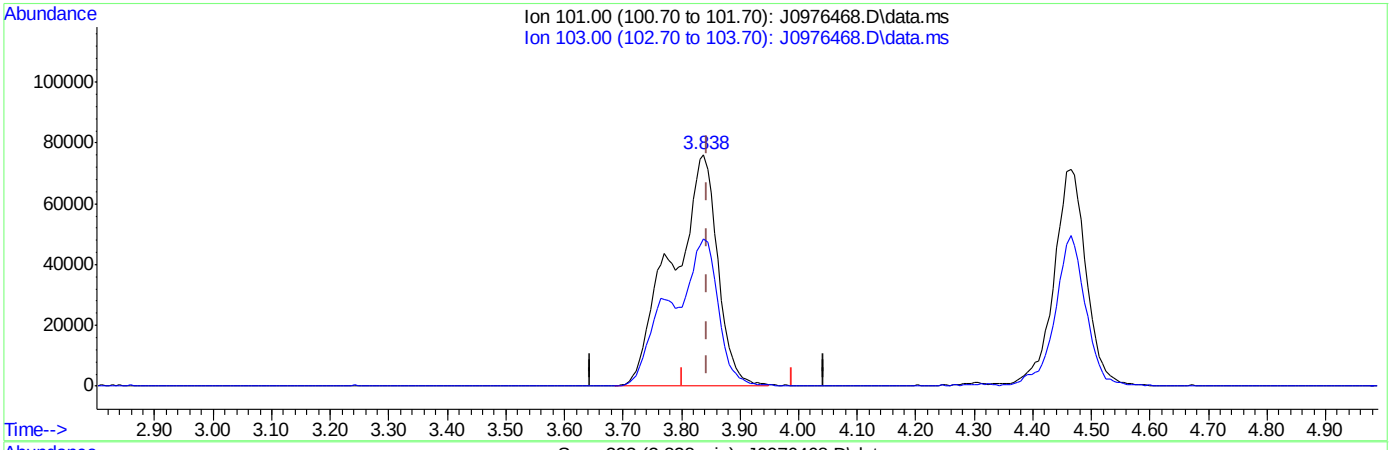
| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 63.58 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

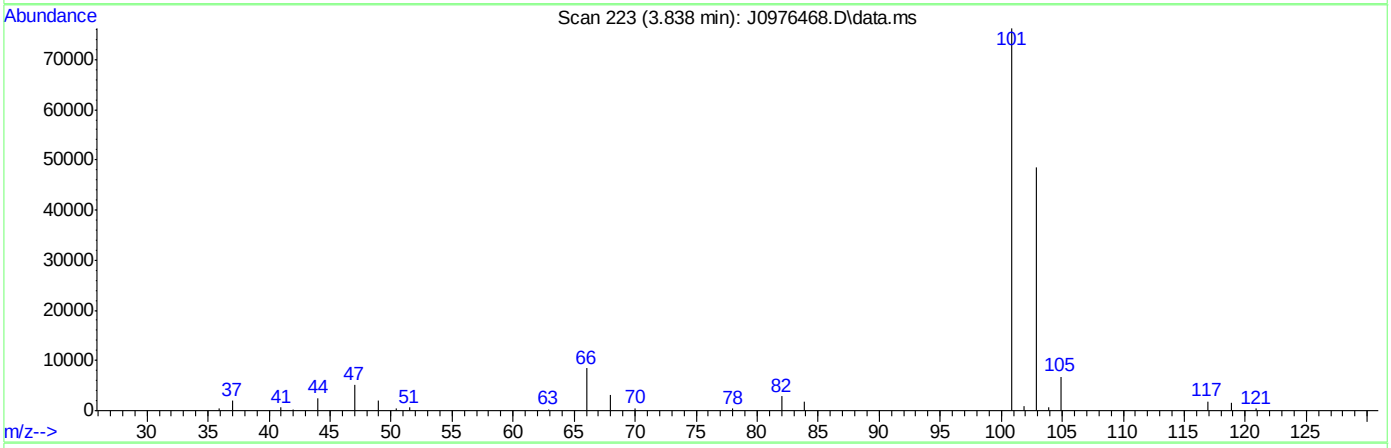
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976468.D
Acq On : 13 May 2016 8:58 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5296,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 09:34:43 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration






TIC: J0976468.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.006) 39.36ug/L m

response 409745

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 63.58 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



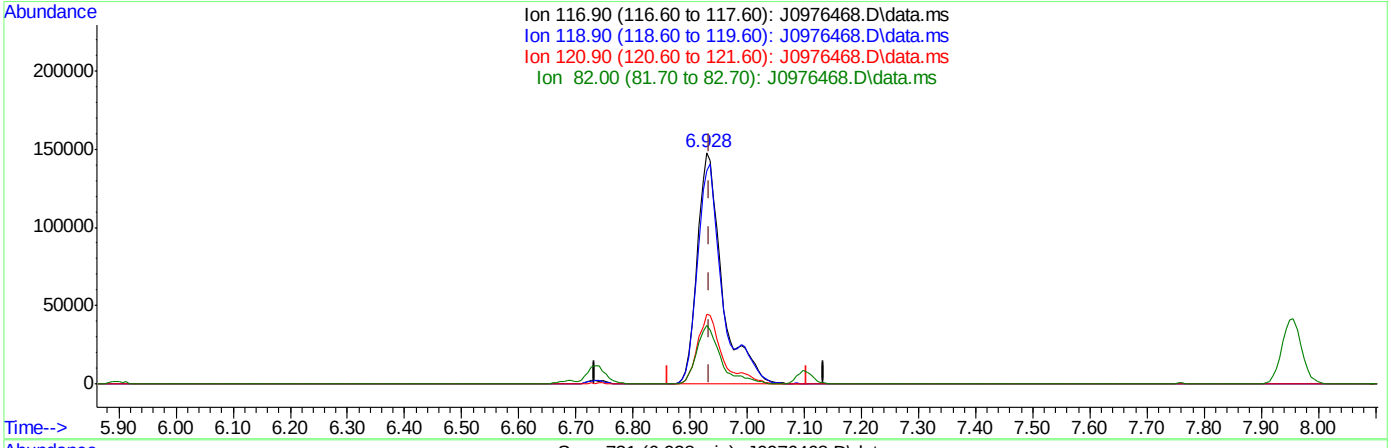
SGS ACCUTEST FA33878

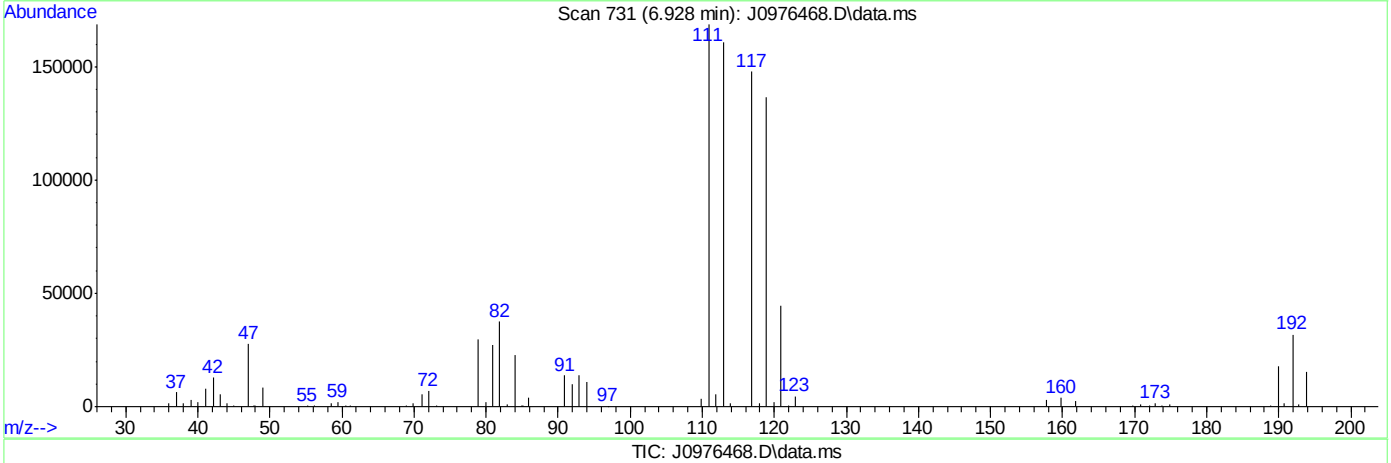
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976468.D
Acq On : 13 May 2016 8:58 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5296,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 09:34:43 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration






TIC: J0976468.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.006) 39.49ug/L

response 448450

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 92.29 |
| 120.90 | 31.20 | 30.16 |
| 82.00 | 25.70 | 25.37 |



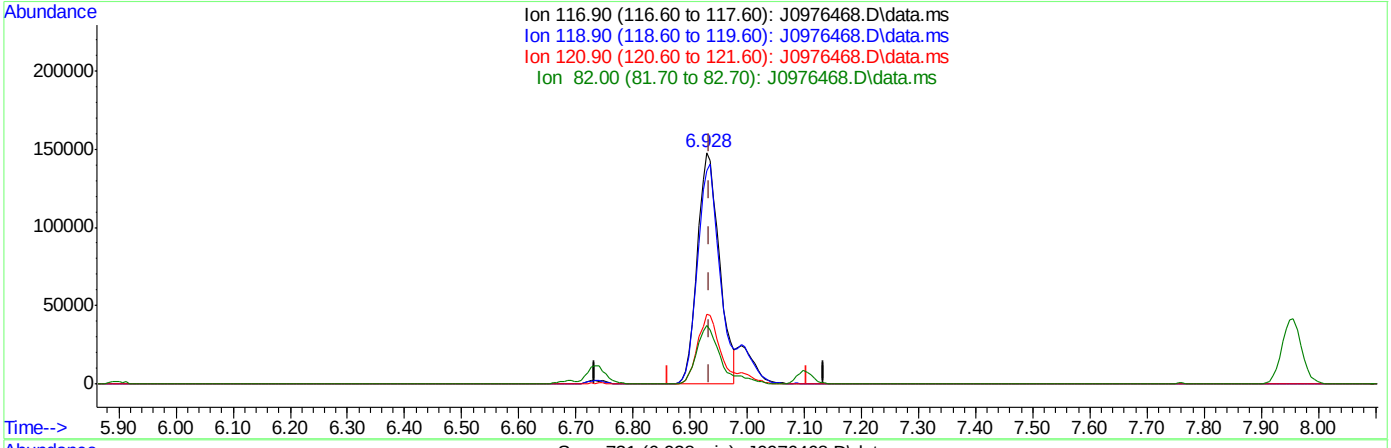
SGS ACCUTEST FA33878

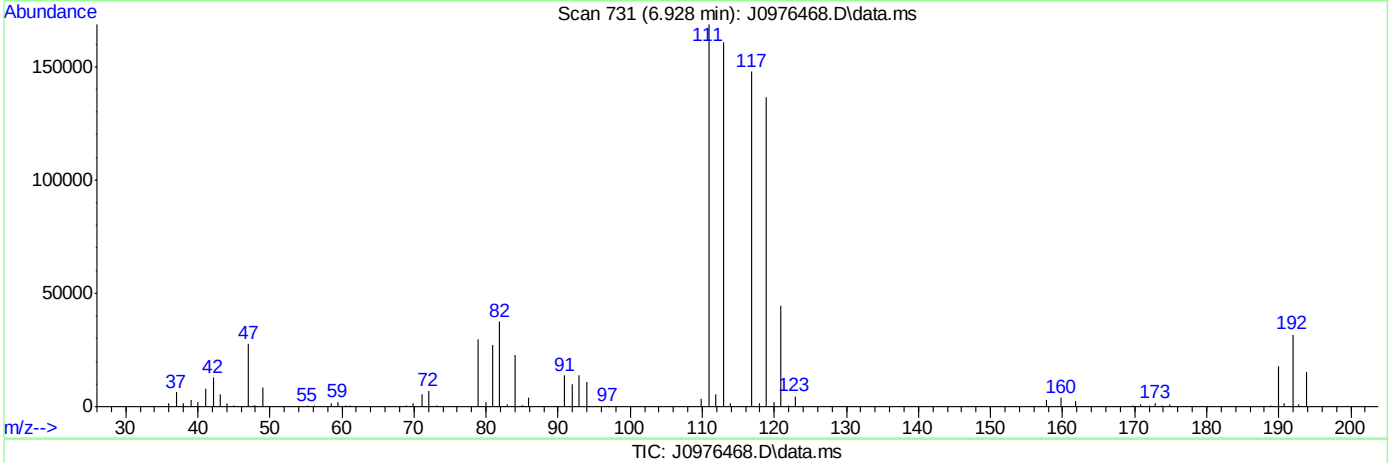
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976468.D
Acq On : 13 May 2016 8:58 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5296,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 09:34:43 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration






TIC: J0976468.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.006) 34.78ug/L m

response 394995

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 92.29 |
| 120.90 | 31.20 | 30.16 |
| 82.00 | 25.70 | 25.37 |

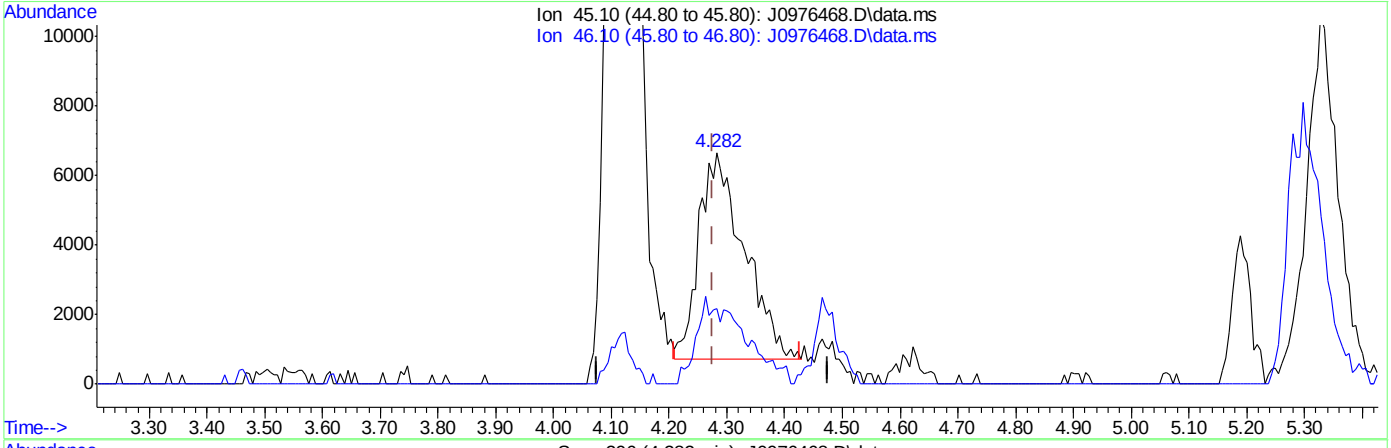


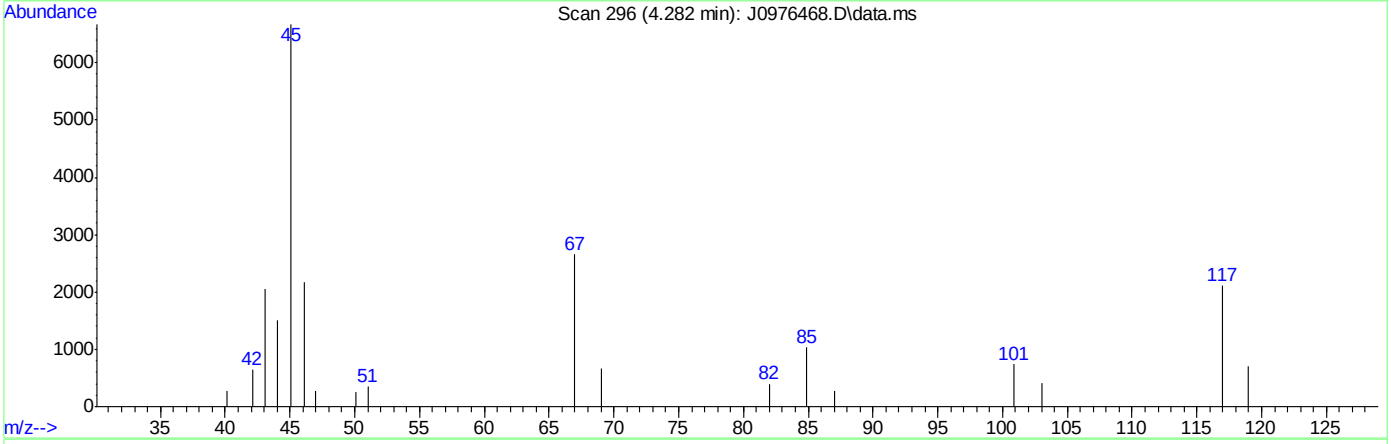
SGS ACCUTEST FA33878

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976468.D
Acq On : 13 May 2016 8:58 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5296,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 09:34:43 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




TIC: J0976468.D\data.ms

(107) Ethanol

4.282min (+0.006) 661.87ug/L

response 32253

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 36.39 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



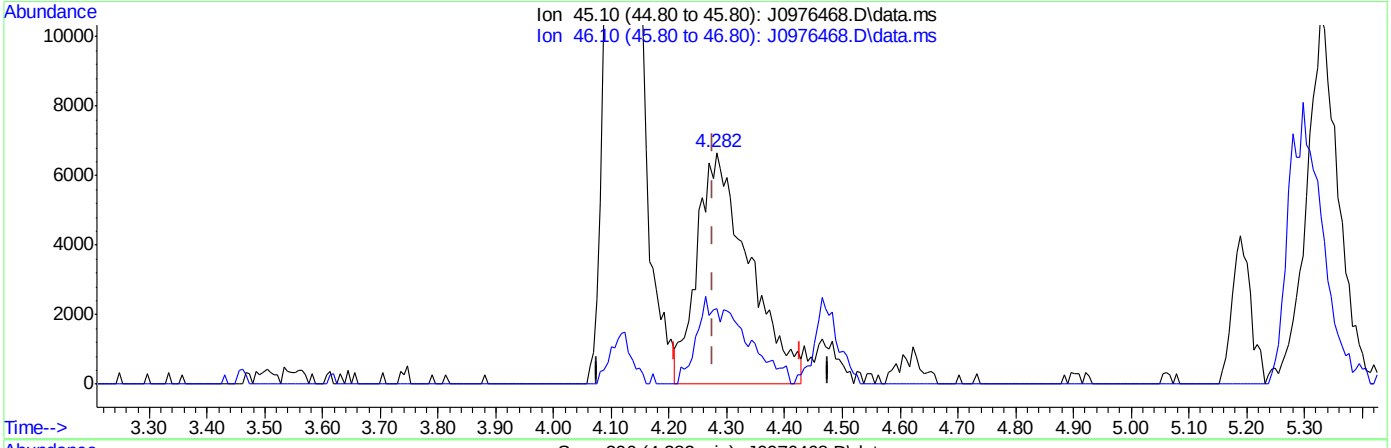
SGS ACCUTEST FA33878

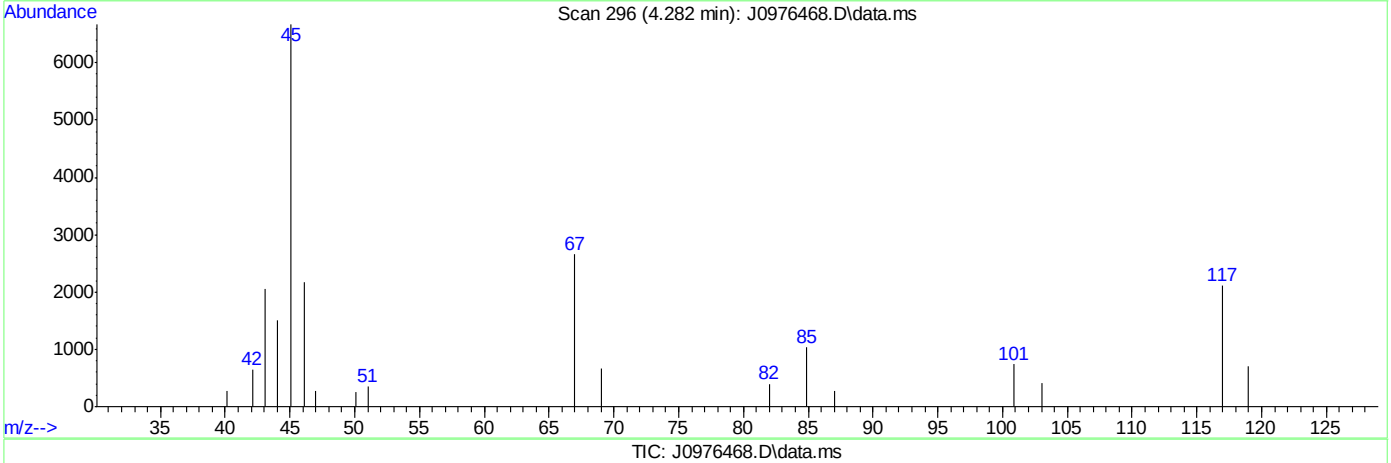
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976468.D
Acq On : 13 May 2016 8:58 am
Operator : darshnap
Sample : cc5295-5 Inst : MSVOA6
Misc : MS33839,VJ5296,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 13 09:34:43 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration






TIC: J0976468.D\data.ms

(107) Ethanol

4.282min (+0.006) 854.95ug/L m

response 41662

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 32.48 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/16/16 11:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976492.D
Acq On : 13 May 2016 6:41 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 14 09:03:01 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Fluorobenzene | 7.756 | 96 | 1405463 | 50.00 | ug/L | 0.00 |
| 56) Chlorobenzene-d5 | 10.846 | 117 | 1100363 | 50.00 | ug/L | 0.00 |
| 78) 1,4-Dichlorobenzene-d4 | 13.207 | 152 | 632068 | 50.00 | ug/L | 0.00 |
| 106) Tert Butyl Alcohol-d10 | 5.304 | 65 | 95461 | 250.00 | ug/L | 0.00 |
| System Monitoring Compounds | | | | | | |
| 36) Dibromofluoromethane | 6.928 | 113 | 346384 | 49.19 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 98.38% | | | |
| 46) 1,2-Dichloroethane-d4 | 7.482 | 65 | 399643 | 48.54 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 79 - 125 | | Recovery = 97.08% | | | |
| 57) Toluene-d8 | 9.301 | 98 | 1401852 | 49.47 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 85 - 112 | | Recovery = 98.94% | | | |
| 79) 4-Bromofluorobenzene | 12.051 | 95 | 570573 | 49.51 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 83 - 118 | | Recovery = 99.02% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.688 | 85 | 273195 | 48.23 | ug/L | 98 |
| 3) Chloromethane | 2.901 | 50 | 334180 | 45.34 | ug/L | 98 |
| 4) Vinyl Chloride | 3.047 | 62 | 370053 | 46.88 | ug/L | 97 |
| 5) 1,3-Butadiene | 3.029 | 54 | 18485 | Below Cal | | 90 |
| 6) Bromomethane | 3.467 | 94 | 206869 | 44.19 | ug/L | 99 |
| 7) Chloroethane | 3.619 | 64 | 148557 | 47.77 | ug/L | 96 |
| 8) Trichlorofluoromethane | 3.838 | 101 | 503395m | 50.04 | ug/L | |
| 9) Ethyl Ether | 4.118 | 59 | 221536 | 39.74 | ug/L | 99 |
| 10) 1,2-Dichlorotrifluoroe... | 4.361 | 67 | 349670 | 40.75 | ug/L | 96 |
| 11) 1,1-Dichloroethene | 4.404 | 61 | 457476 | 43.74 | ug/L | 96 |
| 12) Freon 113 | 4.471 | 101 | 313423 | 43.41 | ug/L | 96 |
| 13) Carbon Disulfide | 4.477 | 76 | 1028080 | 43.53 | ug/L | 99 |
| 14) Iodomethane | 4.586 | 142 | 496834 | 42.48 | ug/L | 99 |
| 15) Allyl chloride | 4.921 | 41 | 399757 | 43.91 | ug/L | 98 |
| 16) Methylene Chloride | 5.049 | 49 | 382539 | 40.78 | ug/L | 98 |
| 17) Acetone | 5.073 | 58 | 85399 | 197.78 | ug/L | 91 |
| 18) Methyl acetate | 5.189 | 74 | 165641 | 203.91 | ug/L | 97 |
| 19) trans-1,2-Dichloroethene | 5.231 | 61 | 412696 | 42.99 | ug/L | 97 |
| 20) Hexane | 5.298 | 56 | 280737 | 42.11 | ug/L | 98 |
| 21) Methyl Tert Butyl Ether | 5.341 | 73 | 800289 | 38.84 | ug/L | 98 |
| 22) Acetonitrile | 5.590 | 40 | 115805 | 434.30 | ug/L | 99 |
| 23) Di-isopropyl ether | 5.718 | 45 | 895278 | 39.21 | ug/L | 96 |
| 24) Chloroprene | 5.876 | 53 | 426662 | 44.32 | ug/L | 97 |
| 25) 1,1-Dichloroethane | 5.894 | 63 | 538385 | 41.84 | ug/L | 97 |
| 26) Acrylonitrile | 5.925 | 53 | 365374 | 213.56 | ug/L | 97 |
| 27) ETBE | 6.119 | 59 | 939231 | 40.18 | ug/L | 99 |
| 28) Vinyl acetate | 6.107 | 43 | 2043087 | 194.43 | ug/L | 100 |
| 29) cis-1,2-Dichloroethene | 6.472 | 96 | 345553 | 41.68 | ug/L | 96 |
| 30) 2,2-Dichloropropane | 6.606 | 77 | 438631 | 40.66 | ug/L | 99 |
| 31) Bromochloromethane | 6.685 | 128 | 155276 | 40.09 | ug/L | 97 |
| 32) Cyclohexane | 6.734 | 56 | 575577 | 47.58 | ug/L | 97 |
| 33) Chloroform | 6.740 | 83 | 573463 | 40.80 | ug/L | 99 |
| 34) Ethyl acetate | 6.807 | 43 | 764591 | 196.07 | ug/L | 99 |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976492.D
Acq On : 13 May 2016 6:41 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 14 09:03:01 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 35) Tetrahydrofuran | 6.916 | 42 | 49320 | 41.44 ug/L | 86 |
| 37) Carbon Tetrachloride | 6.935 | 117 | 462951m | 42.19 ug/L | |
| 38) 1,1,1-Trichloroethane | 6.995 | 97 | 525517 | 41.56 ug/L | 98 |
| 39) 2-Butanone | 7.026 | 43 | 354874 | 194.03 ug/L | 99 |
| 40) 1,1-Dichloropropene | 7.105 | 75 | 424118 | 43.07 ug/L | 98 |
| 41) tert-Butyl Formate | 7.190 | 59 | 1791929 | 383.92 ug/L | 99 |
| 42) Propionitrile | 7.336 | 54 | 256865 | 410.34 ug/L | 95 |
| 43) Methacrylonitrile | 7.360 | 41 | 1046334 | 401.18 ug/L | 98 |
| 44) Benzene | 7.360 | 78 | 1269562 | 41.08 ug/L | 100 |
| 45) TAME | 7.433 | 73 | 848583 | 39.30 ug/L | 98 |
| 47) 1,2-Dichloroethane | 7.549 | 62 | 380065 | 38.34 ug/L | 98 |
| 48) Trichloroethene | 7.932 | 95 | 329611 | 42.02 ug/L | 99 |
| 49) Methylcyclohexane | 7.957 | 83 | 623005 | 45.82 ug/L | 99 |
| 50) Dibromomethane | 8.358 | 93 | 168491 | 38.20 ug/L | 99 |
| 51) 1,2-Dichloropropane | 8.449 | 63 | 303448 | 39.85 ug/L | 98 |
| 52) Bromodichloromethane | 8.492 | 83 | 393881 | 39.04 ug/L | 98 |
| 53) Methyl methacrylate | 8.589 | 41 | 158840 | 41.33 ug/L | 98 |
| 54) 2-Chloroethyl vinyl ether | 9.009 | 63 | 844927 | 225.43 ug/L | 98 |
| 55) cis-1,3-Dichloropropene | 9.106 | 75 | 473858 | 40.25 ug/L | 97 |
| 58) Toluene | 9.350 | 91 | 1336350 | 41.25 ug/L | 98 |
| 59) 2-Nitropropane | 9.557 | 41 | 229537 | 192.14 ug/L | 99 |
| 60) 4-Methyl-2-pentanone | 9.672 | 43 | 889178 | 186.85 ug/L | 99 |
| 61) trans-1,3-Dichloropropene | 9.733 | 75 | 402633 | 40.00 ug/L | 98 |
| 62) Tetrachloroethene | 9.757 | 166 | 400133 | 48.57 ug/L | 95 |
| 63) Ethyl methacrylate | 9.836 | 69 | 314732 | 41.82 ug/L | 97 |
| 64) 1,1,2-Trichloroethane | 9.903 | 83 | 209750 | 39.17 ug/L | 98 |
| 65) Dibromochloromethane | 10.098 | 129 | 284627 | 39.45 ug/L | 98 |
| 66) 1,3-Dichloropropane | 10.183 | 76 | 427488 | 39.49 ug/L | 97 |
| 67) 1,2-Dibromoethane | 10.360 | 107 | 238899 | 38.56 ug/L | 94 |
| 68) 2-hexanone | 10.487 | 43 | 618139 | 188.07 ug/L | 99 |
| 69) 1-Chlorohexane | 10.798 | 91 | 450774 | 46.07 ug/L | 96 |
| 70) Ethylbenzene | 10.858 | 91 | 1563813 | 41.34 ug/L | 100 |
| 71) Chlorobenzene | 10.865 | 112 | 894508 | 40.34 ug/L | 97 |
| 72) 1,1,1,2-Tetrachloroethane | 10.913 | 131 | 301085 | 40.29 ug/L | 97 |
| 73) m,p-Xylene | 10.998 | 91 | 2358244 | 83.70 ug/L | 99 |
| 74) o-Xylene | 11.436 | 91 | 1242139 | 42.06 ug/L | 99 |
| 75) Styrene | 11.485 | 104 | 957079 | 42.00 ug/L | 99 |
| 76) Bromoform | 11.546 | 173 | 182826 | 39.11 ug/L | 98 |
| 77) Isopropylbenzene | 11.741 | 105 | 1512511 | 42.50 ug/L | 99 |
| 80) cis-1,4-Dichloro-2-butene | 12.087 | 53 | 73637 | 38.34 ug/L | 95 |
| 81) n-Propylbenzene | 12.160 | 91 | 1810823 | 41.13 ug/L | 99 |
| 82) Bromobenzene | 12.185 | 156 | 402757 | 39.43 ug/L | 96 |
| 83) 1,1,2,2-Tetrachloroethane | 12.221 | 83 | 311547 | 38.43 ug/L | 96 |
| 84) 1,3,5-Trimethylbenzene | 12.343 | 105 | 1362136 | 40.64 ug/L | 99 |
| 85) 2-Chlorotoluene | 12.349 | 91 | 1262154 | 40.11 ug/L | 100 |
| 86) trans-1,4-Dichloro-2-B... | 12.398 | 53 | 63592 | 34.80 ug/L | 90 |
| 87) 1,2,3-Trichloropropane | 12.385 | 110 | 82362 | 38.41 ug/L | 93 |
| 88) Cyclohexanone | 12.446 | 55 | 40474 | 209.68 ug/L | 97 |
| 89) 4-Chlorotoluene | 12.519 | 91 | 1174242 | 40.20 ug/L | 100 |
| 90) a-Methyl Styrene | 12.604 | 118 | 748566 | 42.61 ug/L | 99 |



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976492.D
Acq On : 13 May 2016 6:41 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 14 09:03:01 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 91) tert-Butylbenzene | 12.684 | 91 | 764086 | 40.87 | ug/L | 99 |
| 92) 1,2,4-Trimethylbenzene | 12.750 | 105 | 1364589 | 40.86 | ug/L | 99 |
| 93) Pentachloroethane | 12.738 | 167 | 211792 | 33.60 | ug/L | 96 |
| 94) sec-Butylbenzene | 12.866 | 105 | 1684295 | 42.12 | ug/L | 100 |
| 95) 4-Isopropyltoluene | 13.000 | 119 | 1423157 | 43.04 | ug/L | 98 |
| 96) 1,3-Dichlorobenzene | 13.134 | 146 | 719647 | 39.99 | ug/L | 98 |
| 97) 1,4-Dichlorobenzene | 13.219 | 146 | 727514 | 39.18 | ug/L | 98 |
| 98) n-Butylbenzene | 13.432 | 92 | 813529 | 42.90 | ug/L | 98 |
| 99) Benzyl Chloride | 13.450 | 126 | 113680 | 38.18 | ug/L | 95 |
| 100) 1,2-Dichlorobenzene | 13.645 | 146 | 658599 | 39.35 | ug/L | 98 |
| 101) 1,2-Dibromo-3-Chloropr... | 14.381 | 75 | 43025 | 39.24 | ug/L | 94 |
| 102) Hexachlorobutadiene | 14.928 | 225 | 310738 | 42.25 | ug/L | 98 |
| 103) 1,2,4-Trichlorobenzene | 14.971 | 180 | 452273 | 39.18 | ug/L | 98 |
| 104) Naphthalene | 15.257 | 128 | 673532 | 39.86 | ug/L | 98 |
| 105) 1,2,3-Trichlorobenzene | 15.427 | 180 | 385120 | 39.93 | ug/L | 98 |
| 107) Ethanol | 4.282 | 45 | 37402m | 792.34 | ug/L | |
| 108) acrolein | 4.757 | 56 | 333622 | 370.66 | ug/L | 93 |
| 109) Tert Butyl Alcohol | 5.383 | 59 | 184463 | 390.92 | ug/L | 93 |
| 110) tert Amyl alcohol | 7.573 | 59 | 143945 | 380.79 | ug/L | 95 |
| 111) Isobutyl alcohol | 7.452 | 42 | 128037 | 781.35 | ug/L | 89 |
| 112) 1,4-Dioxane | 8.668 | 88 | 42843 | 800.66 | ug/L | 96 |
| 113) 3,3-Dimethyl-1-butanol | 10.433 | 57 | 777368 | 1873.70 | ug/L | 98 |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

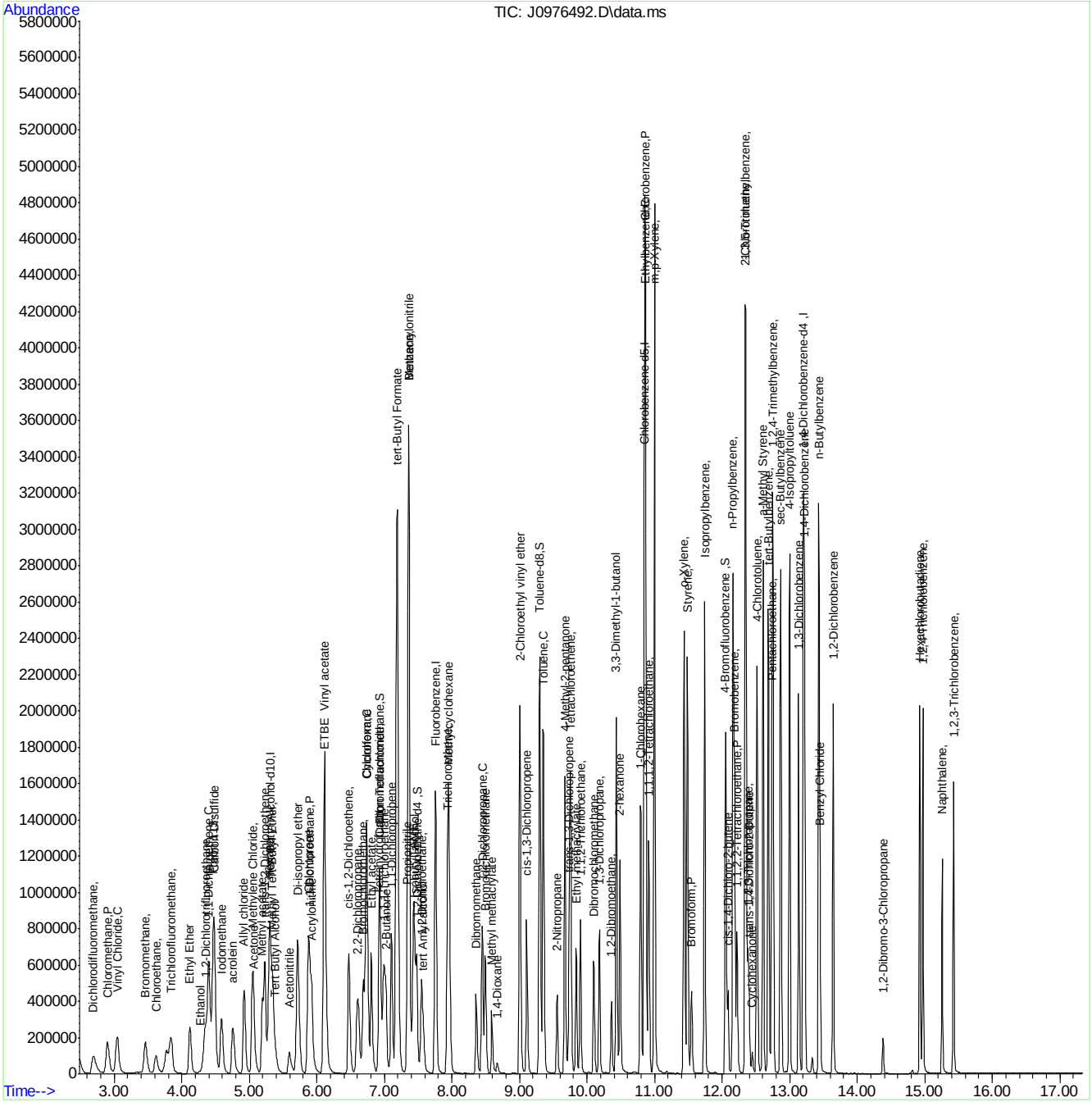



SGS ACCUTEST FA33878

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976492.D
Acq On : 13 May 2016 6:41 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 14 09:03:01 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration


Abundance
TIC: J0976492.D\data.ms
Time-->
Dichlorodifluoromethane,
Chloromethane,P
Vinyl Chloride,C
Bromomethane,
Chloroethane,
Trichlorofluoromethane,
Ethyl Ether
Ethanol
Iodomethane
acrolein
Allyl chloride
Acetone
Methyl acetate
Tert Butyl Alcohol
Acetonitrile
Di-isopropyl ether
ETBE
Vinyl acetate
cis-1,2-Dichloroethene,
2,2-Dichloropropane
Chloroform
Ethyl acetate
2-Butanone
Bromochloromethane
Tetrahydrofuran
tert Amyl Methyl Ether
Dibromomethane
Methyl methacrylate
1,4-Dioxane
2-Chloroethyl vinyl ether
cis-1,3-Dichloropropene
Toluene,C
Toluene-d8,S
2-Nitropropane
4-Methyl-2-pentanone
Tetrachloroethene,
Dibromochloromethane
1,2-Dibromoethane,
2-hexanone
3,3-Dimethyl-1-butanol
1-Chlorohexane
1,1,1,2-Tetrachloroethane,
Chlorobenzene-d5,I
Ethylbenzene,C
m,p-Xylene,
Styrene
o-Xylene,
Isopropylbenzene,
n-Propylbenzene,
4-Bromofluorobenzene ,S
Bromobenzene,
Bromoform,P
4-Chlorotoluene,
Tert-Butylbenzene,
Pentachloroethane,
1,3,5-Trimethylbenzene,
sec-Butylbenzene,
4-Isopropyltoluene
1,4-Dichlorobenzene-d4 ,I
1,4-Dichlorobenzene
n-Butylbenzene
1,2-Dichlorobenzene
Benzyl Chloride
1,2-Dibromo-3-Chloropropane
Naphthalene,
1,2,3-Trichlorobenzene,
tert-Butyl Formate
Benzene
Acrylonitrile
Fluorobenzene,I
Trichloroethene
Methylcyclohexane
Dibromomethane
Bromodichloromethane
Cyclohexanone
Cyclohexane
Tetrachloroethane,S
Ethyl methacrylate
Ethyl Benzene-d10,I
Methyl acrylate
Methyl methacrylate
Methyl methacrylate
Methyl methac

# Manual Integration Approval Summary



| | | | |
|---|---|---|---|
| **Sample Number:** | VJ5296-ECC5295 | **Method:** | SW846 8260B |
| **Lab FileID:** | J0976492.D | **Analyst approved:** | 05/16/16 10:08 Darshna Patel |
| **Injection Time:** | 05/13/16 18:41 | **Supervisor approved:** | 05/16/16 11:04 Juan Garcia |

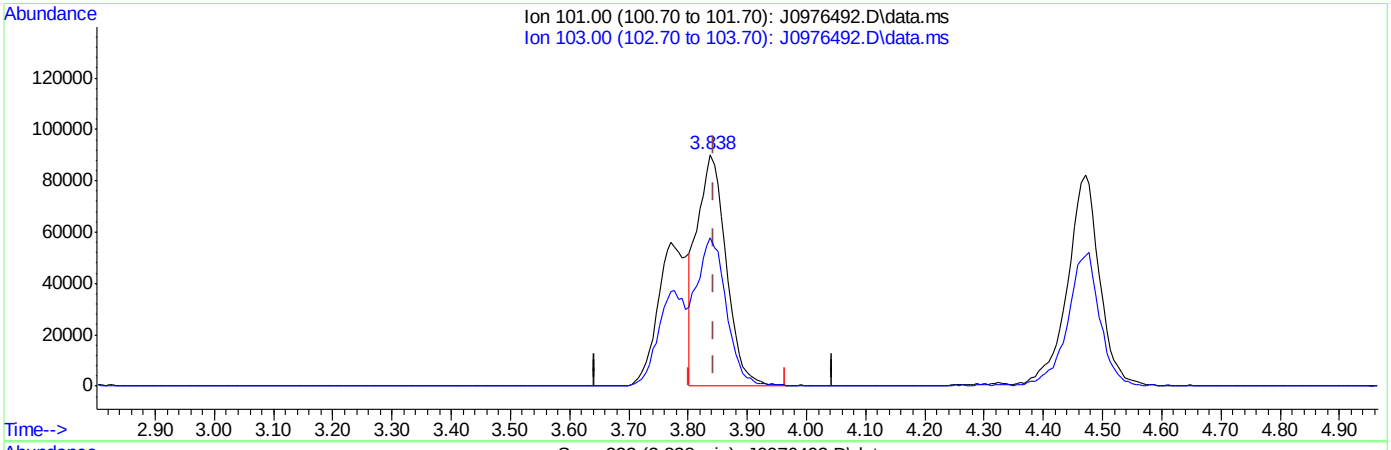
| Parameter | CAS | Sig# | R.T. (min.) | Reason |
|---|---|---|---|---|
| Trichlorofluoromethane | 75-69-4 | | 3.84 | Split peak |
| Ethyl Alcohol | 64-17-5 | | 4.28 | Poor instrument integration |
| Carbon Tetrachloride | 56-23-5 | | 6.93 | Overlapping peak |

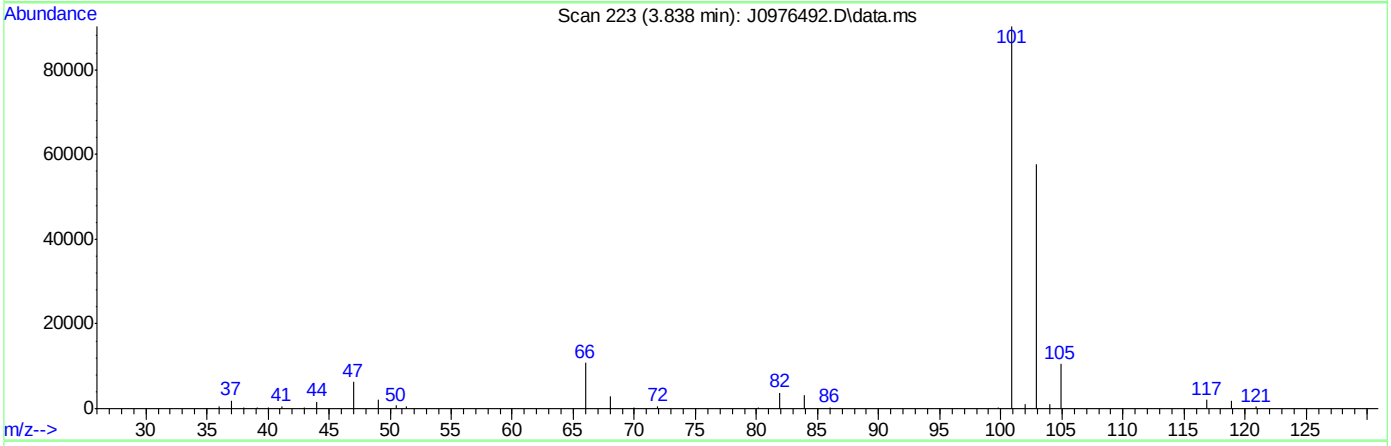
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976492.D
Acq On : 13 May 2016 6:41 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 14 08:47:13 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration






(8) Trichlorofluoromethane ( )

3.838min (-0.006) 30.74ug/L

response 309227

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 63.50 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



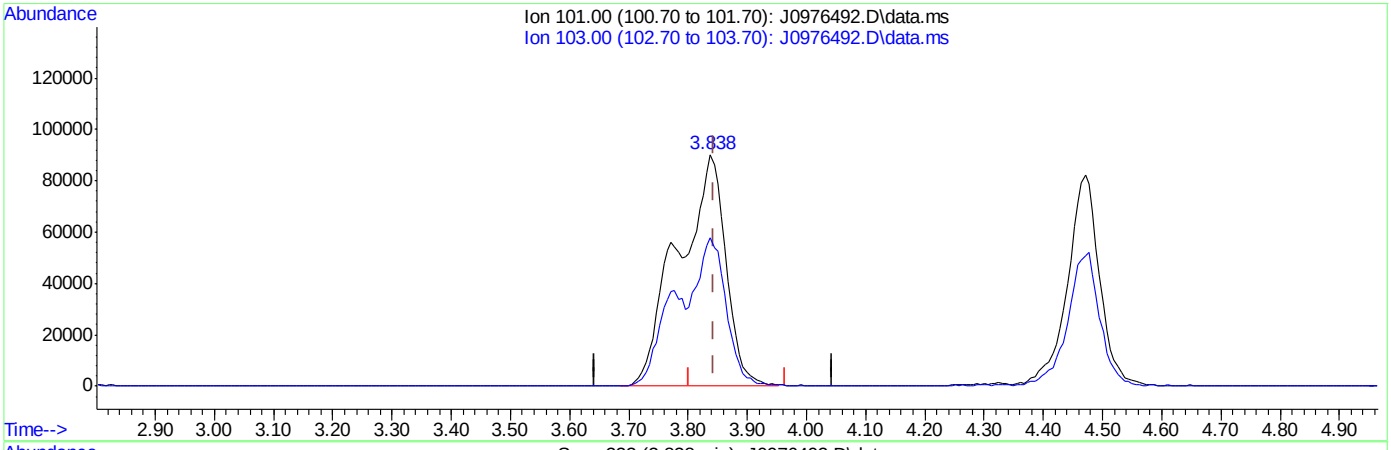
SGS ACCUTEST FA33878

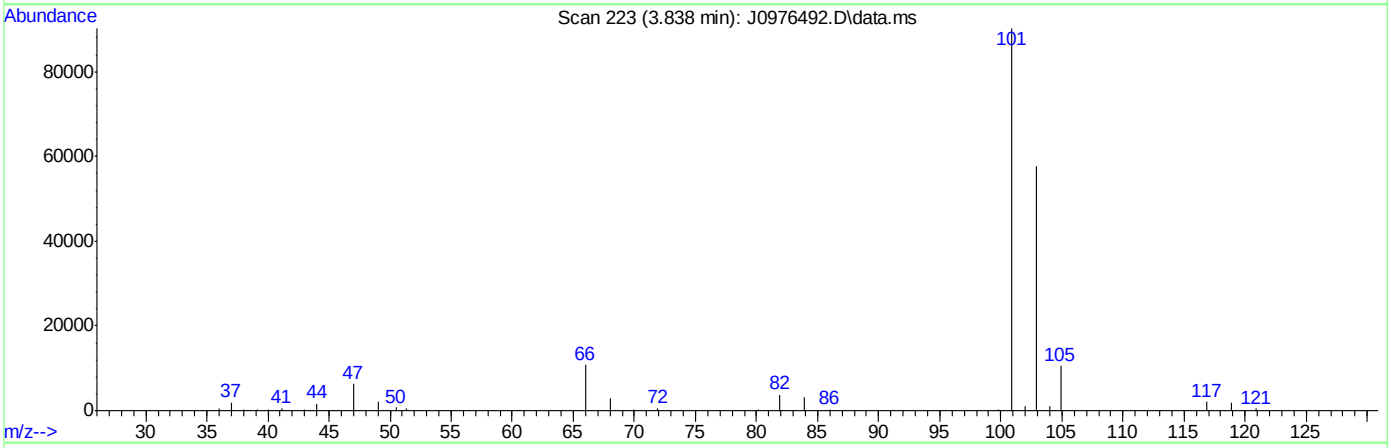
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976492.D
Acq On : 13 May 2016 6:41 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 14 08:47:13 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration






TIC: J0976492.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.006) 50.04ug/L m

response 503395

| Ion | Exp% | Act% |
|---|---|---|
| 101.00 | 100 | 100 |
| 103.00 | 59.70 | 63.88 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



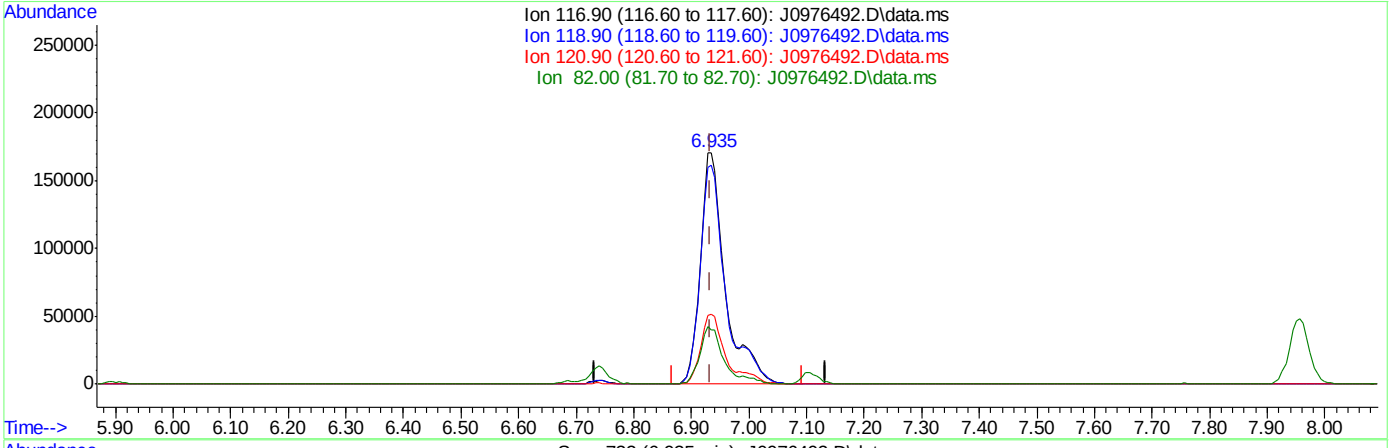
SGS ACCUTEST FA33878

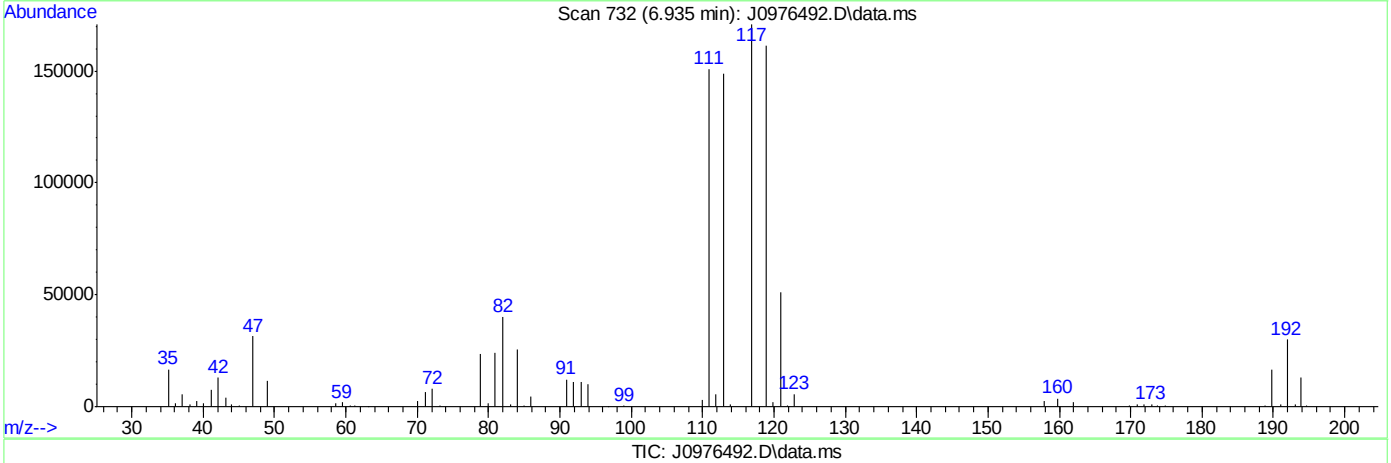
# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976492.D
Acq On : 13 May 2016 6:41 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 14 08:47:13 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration






TIC: J0976492.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 47.14ug/L

response 517178

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 94.42 |
| 120.90 | 31.20 | 29.96 |
| 82.00 | 25.70 | 23.38 |

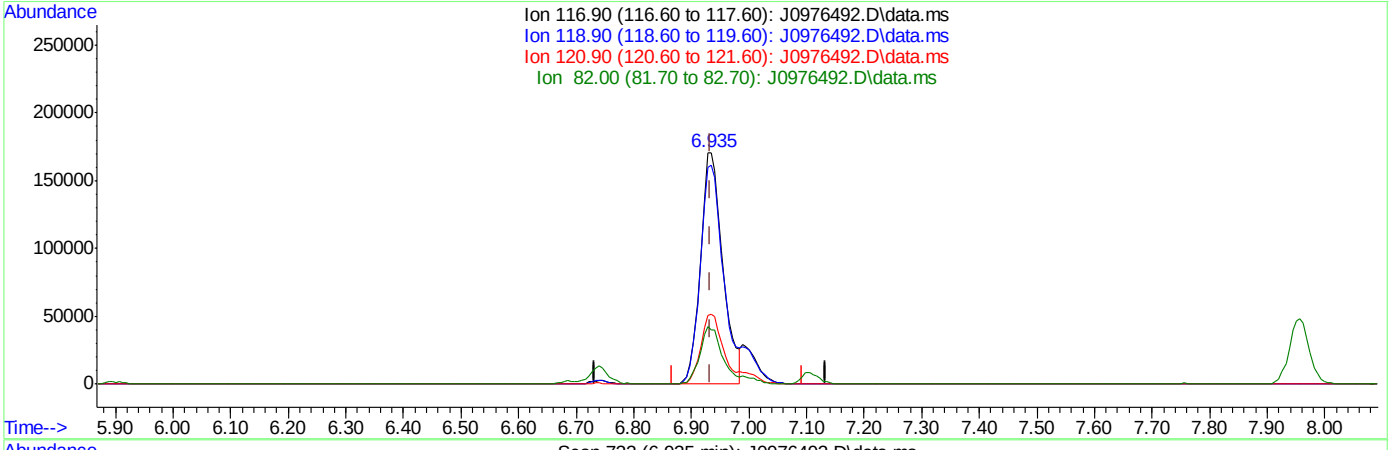


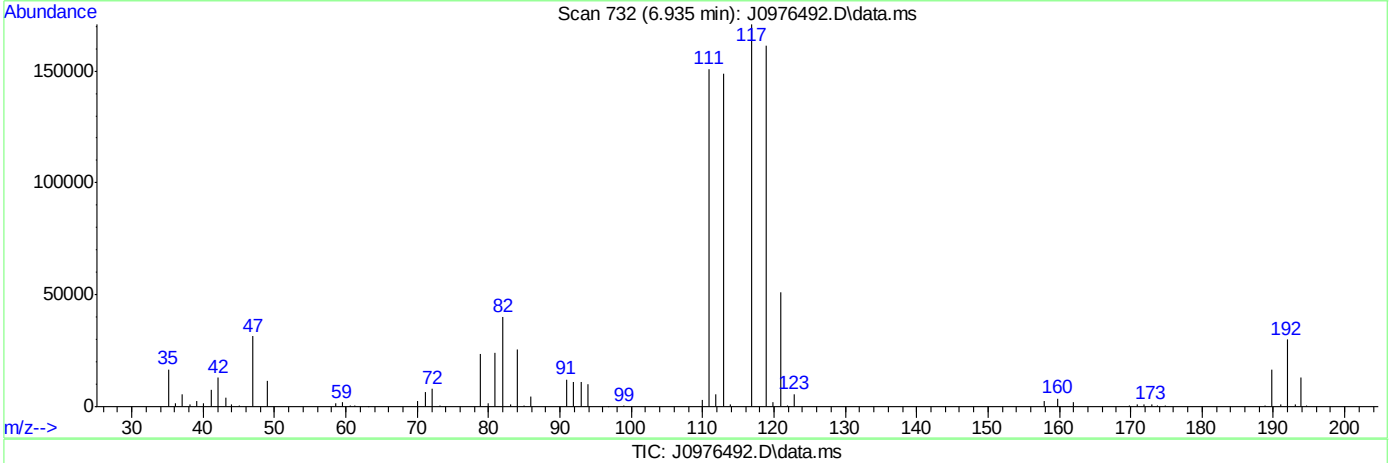
SGS ACCUTEST FA33878

# Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976492.D
Acq On : 13 May 2016 6:41 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 14 08:47:13 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration




TIC: J0976492.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 42.19ug/L m

response 462951

| Ion | Exp% | Act% |
|---|---|---|
| 116.90 | 100 | 100 |
| 118.90 | 97.10 | 94.42 |
| 120.90 | 31.20 | 29.96 |
| 82.00 | 25.70 | 23.38 |



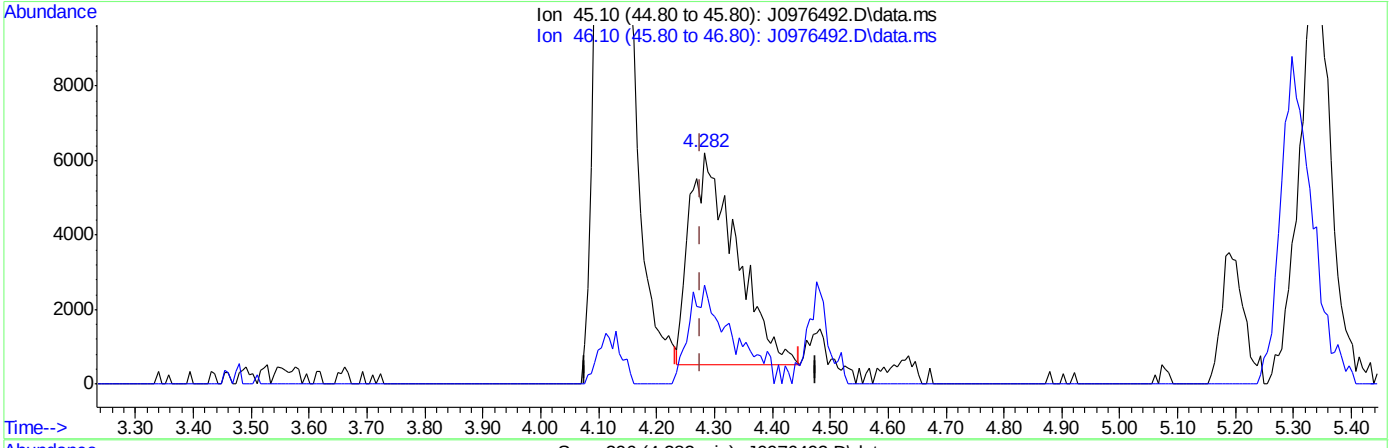
SGS ACCUTEST FA33878

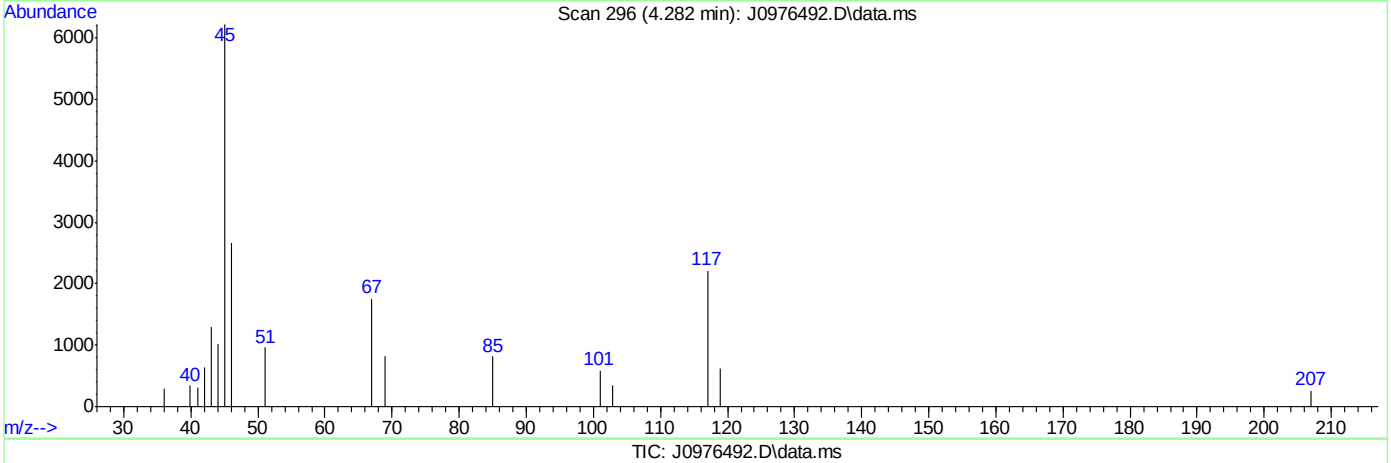
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976492.D
Acq On : 13 May 2016 6:41 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 14 08:47:13 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration






TIC: J0976492.D\data.ms

(107) Ethanol

4.282min (+0.006) 681.10ug/L

response 32151

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 41.29 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



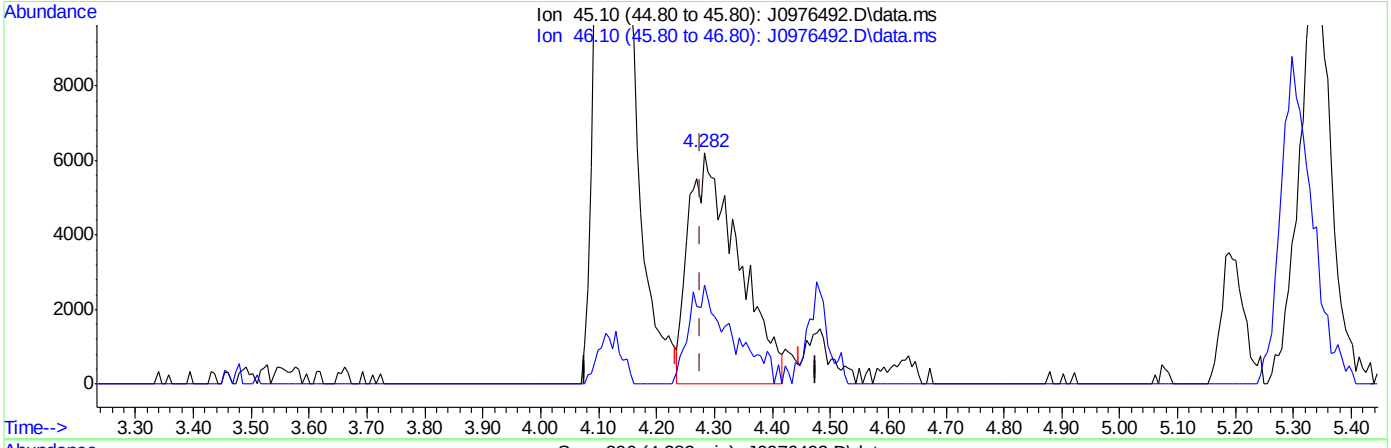
SGS ACCUTEST FA33878

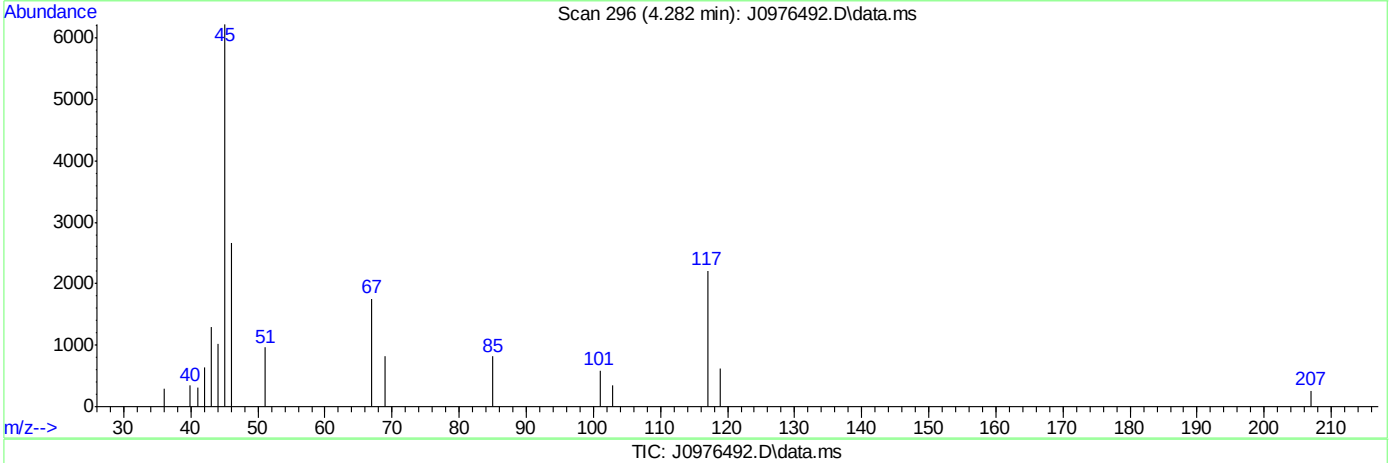
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051316\
Data File : J0976492.D
Acq On : 13 May 2016 6:41 pm
Operator : darshnap
Sample : ecc5295-5 Inst : MSVOA6
Misc : MS33871,VJ5296,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 14 08:47:13 2016
Quant Method : C:\msdchem\2\methods\MSJ051216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration






TIC: J0976492.D\data.ms

(107) Ethanol

4.282min (+0.006) 792.34ug/L m

response 37402

| Ion | Exp% | Act% |
|---|---|---|
| 45.10 | 100 | 100 |
| 46.10 | 35.30 | 42.97 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |



SGS ACCUTEST FA33878

**ACCUTEST LABORATORIES SE**

| | |
|---|---|
| DATE: | 5-12-16 |
| COLUMN TYPE: | RTX-Vmi |
| DETECTOR: | 5973 MSD |
| INSTRUMENT: | MSVOA5-C |
| PURGE PRESSURE: | 20 |
| ANALYST: | S |

**MS VOA5-C ANALYSIS LOG**

| | |
|---|---|
| METHODS:* | 8260 |
| METHOD FILE: | 0512L16MA-C-50.L |
| CALIB. DATE: | 05-12-16 |
| EM VOLTAGE: | 1694 |
| BFB RESPONSE: | 1480821 |
| RUN ID: | VC 4595 |

**STANDARDS**

| | |
|---|---|
| A BFB: | BFB: V20120 |
| ICAL/CCV: | ICAL/CCV: V20178,V20159,V20151, V20147,V20145,V20143 |
| ISTD/SURR: | ISTD/SURR: V20161 |
| B ICV/QC: | ICV/QC: V20179,V20160,V20152, V20148,V20146,V20144 |
| STDB=25 µm=40 ug/L/24ml | |
| METHANOL LOT #: | 157266 |

S

| | DATA FILE | SAMPLE ID | Vial # | MATRIX | SAMPLE AMT. | MeOH ALIQ. | ALS POS. | PREP METHOD | MANUALLY INTEGRATED PEAKS RATIONALE, PEAK # | RR | COMMENTS STDB=25 µm=40 ug/L/24ml |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | c D11-5578 | BFB | — | — | — | — | 5 | — | | — | |
| | c 79 | IC4595-1 | — | — | — | — | 6 | — | 104SP | — | 0.1ml /5ml STDB |
| | c 80 | IC4595-2 | — | — | — | — | 7 | — | 104SP | — | 0.2ml |
| | c 81 | IC4595-3 | — | — | — | — | 8 | — | 104SP Mop | — | 0.4ml |
| | c 82 | IC4595-4 | — | — | — | — | 9 | — | 104SP Mop | — | 1ml |
| | c 83 | IC4595-5 | — | — | — | — | 10 | — | 104SP Mop | — | 2ml |
| | c 84 | IC4595-6 | — | — | — | — | 11 | — | 104SP Mop | — | 3ml |
| | c 85 | IC4595-7 | — | — | — | — | 12 | — | 104SP 104OU Mop | — | 4ml |
| | c 86 | BLANK | — | — | — | — | 13 | — | | — | |
| | c 87 | ICV4595-4 | — | — | — | — | 14 | — | 104OU | — | 1ml STDB/5ml |
| | c 88 | BS | — | — | — | — | 15 | — | | — | 1ml STDB/5ml |
| | c 89 | MB | — | — | — | 100 | 16 | — | | — | |
| 3050 | c 90 | FA33788-3 | B2117 | S | 5.38 | — | 17 | EN | 8260R | — | |
| | c 91 | -7 | B2123 | S | 5.92 | — | 18 | EN | 1,4-Diox bad. Col | — | |
| | c 92 | -8 | B2126 | S | 5.61 | — | 19 | EN | | — | |
| | c 93 | -8,50X | B2127 | S | 5.03 | 100 | 20 | EN | | — | |
| | c 94 | -8MS,50X | B2127 | S | 5.03 | 100 | 21 | EN | 104SP | — | 1ml STD Bottled |
| | c 95 | -8MSD,50X | B2127 | S | 5.03 | 100 | 22 | EN | 104SP | — | |
| 33860 | c 96 | FA33878-3,50X | B23263 | S | 5.49 | 100 | 23 | EN | | — | |
| | c 97 | -3,500X | B23263 | S | 5.49 | 10 | 24 | EN | | — | 90ml Methanol |
| | c 98 | -4,50X | B2326 | S | 5.53 | 100 | 25 | EN | | — | |
| | c 99 | -4,500X | B2326 | S | 5.53 | 10 | 26 | EN | | — | 90ml Methanol |
| | c 600 | ECC4595-4 | — | — | — | — | 27 | — | 104SP | — | 1ml STDA/5ml |
| | c 01 | Cond Blk | — | — | — | — | 1 | — | | — | See VC4595 |
| | c 02 | | — | — | — | — | 2 | — | | — | |
| | c 03 | | — | — | — | — | 3 | — | | — | |
| | c 04 | | — | — | — | — | 4 | — | | — | |

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: S

msvoa5_c_log.xls NF 07/11

ACCUTEST SOUTHEAST

# 5035A SOIL PREP LOG

BALANCE ID: NAV 4

| Serial # | Sample # | Vial Type or Vial Lot # | Tare Wt gram | Total Wt gram | Sample Wt gram | Date | Time | Initials | Container Type * | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| B2110 | FA33778-11 | W | 30.89 | 36.88 | 5.99 | 05/10/16 | 9:05 | CG | PT | IN |
| 11 | -11 | W | 30.75 | 37.20 | 6.45 | | ↓ | | ↓ | ↓ |
| 12 | -11 | M | 29.83 | 36.21 | 6.38 | | 9:06 | | ↓ | ↓ |
| 13 | FA33788-3 | W (AC2481) | — | — | 5.09 | | 10:53 | | EN | IN, FS, P |
| 14 | -3 | W ↓ | — | — | 4.73 | | ↓ | | ↓ | ↓ |
| 15 | -3 | M (AC2480) | — | — | 4.76 | | ↓ | | ↓ | ↓ |
| 16 | -3 | W | — | — | 5.45 | | 10:57 | | ↓ | ↓ |
| 17 | -3 | W | — | — | 5.38 | | ↓ | | ↓ | ↓ |
| 18 | -3 | M | — | — | 5.15 | | ↓ | | ↓ | ↓ |
| 19 | -3 | W | — | — | 5.21 | | 11:00 | | ↓ | ↓ |
| 20 | -3 | W | — | — | 5.02 | | ↓ | | ↓ | ↓ |
| 21 | -3 | M | — | — | 4.99 | | ↓ | | ↓ | ↓ |
| 22 | -7 | W | — | — | 5.78 | | 11:03 | | ↓ | ↓ |
| 23 | -7 | W | — | — | 5.92 | | ↓ | | ↓ | ↓ |
| 24 | -7 | M | — | — | 6.18 | | ↓ | | ↓ | ↓ |
| 25 | -8 | W | — | — | 5.62 | | 11:06 | | ↓ | ↓ |
| 26 | -8 | W | — | — | 5.61 | | ↓ | | ↓ | ↓ |
| 27 | -8 | M | — | — | 5.03 | | 11:07 | | ↓ | ↓ |
| 28 | FA33790-1 | W ($NaHSO_4$) | 31.66 | 36.39 | 4.73 | | | | PT | IN, preserved |
| 29 | -1 | W ↓ | 31.70 | 36.48 | 4.78 | | ↓ | | ↓ | ↓ |
| 30 | -1 | M | 29.49 | 34.44 | 4.95 | | ↓ | | ↓ | ↓ |
| 31 | -1 | M | 29.71 | 34.10 | 4.39 | | ↓ | | ↓ | ↓ |
| B2132 | -1 | M | 29.56 | 34.24 | 4.68 | ↓ | 11:23 | ↓ | ↓ | ↓ |

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

# 5035A SOIL PREP LOG

BALANCE ID: NAV 4

| Serial # | Sample # | Vial Type or Vial Lot # | Tare Wt gram | Total Wt gram | Sample Wt gram | Date | Time | Initials | Container Type * | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| B2202 | FA33840-8 | W (NaHSO4) | 31.67 | 36.77 | 5.10 | 05/11/16 | 12:40 | DKM | PT | IN |
| 03 | -8 | W ↓ | 31.63 | 36.35 | 4.72 | | | | | |
| 04 | -8 | M | 29.85 | 34.49 | 4.64 | | | | | |
| 05 | -9 | W (NaHSO4) | 31.65 | 35.08 | 3.43 | | | | | |
| 06 | -9 | W ↓ | 31.68 | 35.46 | 3.78 | | | | | |
| 07 | -9 | M | 29.81 | 33.72 | 3.91 | | | | | |
| 08 | -10 | W (NaHSO4) | 31.71 | 31.73 | 0.02 | | | | | TB |
| 09 | -10 | W ↓ | 31.42 | 31.45 | 0.03 | | ↓ | | | ↓ |
| 10 | -10 | M | 29.83 | 29.80 | -0.03 | | 12:49 | | | ↓ |
| 11 | FA33841-1 | W (NaHSO4) | 31.57 | 35.37 | 3.80 | | 12:54 | | | IN |
| 12 | -1 | W ↓ | 31.63 | 35.70 | 4.07 | | ↓ | | | |
| 13 | -1 | M | 29.55 | 33.25 | 3.70 | | 12:57 | | | |
| 14 | FA33836-1 | W | 31.14 | 37.78 | 6.64 | | 14:15 | | | |
| 15 | -1 | W | 30.81 | 38.73 | 7.92 | | | | | |
| 16 | -1 | M | 29.84 | 36.63 | 6.79 | | | | | |
| 17 | -1 | M | 29.59 | 37.26 | 7.67 | | | | | |
| 18 | -3-2 | W | 30.99 | 38.18 | 7.19 | | | | | |
| 19 | -3-2 | W | 29.78 | 36.74 | 6.96 | | | | | |
| 20 | -3-2 | M | 31.15 | 38.66 | 7.51 | | | | | |
| 21 | -3-2 | M | 29.68 | 36.53 | 6.85 | | | | | |
| 22 | -2-3 | W | 30.88 | 38.32 | 7.44 | | | | | |
| 23 | -2-3 | W | 31.06 | 38.47 | 7.41 | | ↓ | | | |
| B2224 | -2-3 | M | 29.64 | 37.04 | 7.40 | ↓ | 14:23 | ↓ | ↓ | ↓ |

DKM 05/11/16

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11





SGS ACCUTEST FA33878

ACCUTEST SOUTHEAST

# 5035A SOIL PREP LOG

BALANCE ID: NAV 4

| Serial # | Sample # | Vial Type or Vial Lot # | Tare Wt gram | Total Wt gram | Sample Wt gram | Date | Time | Initials | Container Type * | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| B2317 | FA33882-2 | M | 29.82 | 34.09 | 4.27 | 05/12/16 | 11:43 | DKY | PT | IN |
| 18 | -2 | M | 29.80 | 34.20 | 4.40 | | | | | |
| 19 | -3 | M | 29.87 | 33.98 | 4.11 | | | | | |
| 20 | -3 | M | 29.80 | 34.28 | 4.48 | | | | | |
| 21 | FA33878-3 | W (AC2481) | — | — | 5.53 | | 11:51 | | EN | FS Unlocked |
| 22 | -3 | W | — | — | 5.56 | | 11:53 | | | |
| 23 | -3 | M (AC2480) | — | — | 5.49 | | 11:54 | | | |
| 24 | -4 | W (AC2481) | — | — | 5.72 | | 11:57 | | | |
| 25 | -4 | W | — | — | 5.63 | | 11:58 | | | |
| 26 | -4 | M (AC2480) | — | — | 5.53 | | 12:00 | | | |
| 27 | FA33902-2 | M (AC2480) | — | — | 5.10 | | 15:17 | | 5030A | OOH |
| 28 | -2 | W (AC2481) | — | — | 5.73 | | | | | |
| 29 | -2 | W | — | — | 5.28 | | 15:20 | | | |
| 30 | | | | | | | | | | |
| 31 | | | | | | | | | | |
| 32 | | | | | | | | | | |
| 33 | | | | | | | | | | |
| 34 | | | | | | | | | | |
| 35 | | | | | | | | | | |
| 36 | | | | | | | | | | |
| 37 | | | | | | | | | | |
| 38 | | | | | | | | | | |
| B2339 | | | | | | | | | | |

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

## ACCUTEST LABORATORIES SE

| | |
|---|---|
| DATE: | 05-12-16 |
| COLUMN TYPE: | RTX-UMS |
| DETECTOR: | 5973 MSD |
| INSTRUMENT: | MSVOA6-J |
| PURGE PRESSURE: | 11.4psi |
| ANALYST: | DP |

1-12 pH
lot 200814
0-3 pH
lot 204413

## MS VOA6-J ANALYSIS LOG

| | |
|---|---|
| METHODS:* | 8260 |
| METHOD FILE: | MS505121 6.M |
| CALIB. DATE: | 05-12-16 |
| EM VOLTAGE: | 1553V |
| BFB RESPONSE: | 2294207 |
| RUN ID: | VJ5295 |

## STANDARDS

| | |
|---|---|
| BFB: | V20180 |
| ICAL/CCV: | V20171 V20190 V20164 V20173 V20172 V20191 V20156 V20189 V20191 good. |
| ISTD/SURR: | V20180 |
| ICV/QC: | V20175 V20168 V20167 V20176 |
| Purge Volumes | 5ml V20182 V20165 V20107 V20121 |

| DATA FILE | SAMPLE ID, DIL. | Vial # | MATRIX | ALS POS. | SAMPLE METHOD | MANUALLY INTEGRATED PEAKS RATIONALE, PEAK # | PH | CI ? | RR | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| J0976442 | BLK | N/A | $H_2O$ | 1 | 8260 | | N/A | N/A | | ✓ |
| J 43 | BFB | | | 1 | | | | | | Auto Passed |
| J 44 | CCS237-5A | | | 1 | | | | | | 20ml → 5ml |
| J 45 | CCS237-5 | | | 1 | | | | | | ↓ |
| J 46 | BFB | | | 1 | | | | | | Auto Passed |
| J 47 | ICS295-1 | | | 1 | | SP(8) PII(26) | | | | 0.5ml → 5ml ✓ |
| J 48 | -2 | | | 2 | | SP(8) OP(37) PII(107) | | | | 2.5ml → 5ml ✓ |
| J 49 | -3 | | | 3 | | SP(8) OP(37) | | | | 5ml → 5ml ✓ |
| J 50 | -4 | | | 4 | | SP(8) OP(37) PII(107) OP 05-12-16 | | | | ~~20ml~~ 12.5ml → 5ml |
| J 51 | -5 | | | 5 | | SP(8) OP(37) PII(107) | | | | ~~35ml~~ 20ml → 5ml |
| J 52 | -6 | | | 6 | | SP(8) OP(37) PII(107) | | | | 5ml 35ml → 5ml |
| J 53 | -7 | | | 7 | | SP(8) OP(37) PII(107) | | | | 5ml → 5ml ✓ |
| J 54 | BLK | | | 8 | | | | | | ✓ |
| J 55 | ICV S295-5 | | | 9 | | SP(8) OP(37) PII(107) | | | | 25ml → 5ml ✓ |
| J 56 | BS | | | 10 | | SP(8) OP(37) PII(107) | | | | 12.5ml → 40ml ✓ |
| J 57 | MB | ↓ | | 11 | | | ↓ | ↓ | | ✓ |
| J 58 | FA33878-1MA | 1 | | 1 | | | 1 | N | | ✓ |
| J 59 | -2MA | 1 | | 2 | | | 1 | | | ND |
| J 60 | -5MA | 1 | | 3 | | | 1 | | 100x | Toluene, Xylenes ↑ |
| J 61 | -6MA | 1 | | 4 | | | 1 | | 1X | CO |
| J 62 | -7MA | 1 | | 5 | | | 1 | | 1X | CO |
| J 63 | -1MSMA | 2 | | 6 | | SP(8) OP(37) PII(107) | 1 | | | 12.5ml → 40ml |
| J 64 | -1MSDMA | 2 | | 6 | | SP(8) OP(37) PII(107) | 1 | ↓ | | ↓ |
| J 65 | FCCS295-5 | – | ↓ | 7 | ↓ | SP(8) OP(37) PII(107) | – | – | | 20ml → 5ml |
| J | | | | | | | | | | |
| J | | | | | | 05-13-16 OP | | | | |
| J | | | | | | | | | | |

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP

msvoa6_j_log.xls NF 06/10





SGS ACCUTEST FA33878

**ACCUTEST LABORATORIES SE**

DATE: 05-13-16
COLUMN TYPE: Rtx-VMS
DETECTOR: 5973 MSD
INSTRUMENT: MSVOA6-J
PURGE PRESSURE: 11.4 psi
ANALYST: DP

1-12 pH lot 200814
0-3 pH lot 204413

**MS VOA6-J ANALYSIS LOG**

METHODS:* 8260
METHOD FILE: MSJ051216A.M
CALIB. DATE: 05-12-16
EM VOLTAGE: 1553 V
BFB RESPONSE:
RUN ID: VJ 5296 / 5297

**STANDARDS**

BFB: V20180
ICAL/CCV: V20191 V20190 V20141 V20164 V20172 V20173 V20189 V20156
ISTD/SURR: V20180
ICV/QC: V20193 V20168 V20165 V20088
Purge Volume 5.0mL V20167 V20187 V20167 V20131

| DATA FILE | SAMPLE ID, DIL. | Vial # | MATRIX | ALS POS. | SAMPLE METHOD | MANUALLY INTEGRATED PEAKS RATIONALE, PEAK # | PH | CI ? | RR | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| J09776466 | Blk | N/A | H2O | 1 | 8260 | | N/A | N/A | | ✓ |
| J 67 | Blk | | | 1 | | | | | | Passed Auto |
| J 68 | CCS295-5 | | | 1 | | SP(8) OP(37) PII(107) | | | | 20ml → 50ml |
| J 69 | BS | | | 1 | | SP(8) OP(37) PII(107) | | | | 12.5ml → 40ml |
| J 70 | MB | | | 2 | | | | | | ND |
| J 71 | FA33878-6 MA | 2 | | 1 | | | | ND | | ✓ |
| J 72 | -7 MA | 2 | | 2 | | | | | | ND |
| J 73 | FA33919 -9 mA | 1 | | 3 | | | | | | ND |
| J 74 | FA33878 -5, 100x mA | 2 | | 4 | | 0.5ml → 50ml | | | | ✓ |
| J 75 | ~~FA33877-16~~ DP 05-13-16 | 2 | | 5 | | FA33745-28, 20X 2.5ml → 50ml | | | | ✓ |
| J 76 | FA33872-1 | 2 | | 6 | | | | | | ND |
| J 77 | -2 | 2 | | 7 | | | | | | ND |
| J 78 | -3 | 2 | | 8 | | | | | | ND |
| J 79 | FA33919-1 MA | 2 | | 9 | | | | | | ✓ |
| J 80 | -2 mA | 2 | | 10 | | | | | | ND |
| J 81 | -3 mA | 2 | | 11 | | | | | | ND |
| J 82 | -4 mA | 2 | | 12 | | | | | | ND |
| J 83 | -5 mA | 2 | | 13 | | | | | | ✓ |
| J 84 | -6 mA | 2 | | 14 | | | | | | ✓ |
| J 85 | -7 mA | 2 | | 15 | | | | | 2X | TBA |
| J 86 | -8 mA | 2 | | 16 | | | | | | ND |
| J 87 | -10 mA | 2 | | 17 | | | | | | ND |
| J 88 | -5ms mA | 3 | | 18 | | SP(8) OP(37) PII(107) | | | | 12.5ml → 40ml ✓ |
| J 89 | -5msd mA | 3 | | 19 | | SP(8) OP(37) PII(107) | | | | ✓ |
| J 90 | FA33745-28 MSD, 20X | 2 | | 19 | | SP(8) OP(37) PII(107) | | | | ✓ |
| J 91 | -28 MSD, 20X | 2 | | 19 | | SP(8) OP(37) PII(107) | | | | ✓ |
| J 92 | CCS295-5 | NA | | 20 | | | NA | NA | | 20µL → ~~10~~ 50mL ✓ |

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: PCD 5/14/16

msvoa6_j_log.xls NF 06/10

# General Chemistry

## QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

# Percent Solids Raw Data Summary



**Job Number:** FA33878
**Account:** AMANYWP Anderson, Mulholland & Associates
**Project:** BMSMC, Building 5 Area, Humacao, PR

**Sample:** FA33878-3 **Analyzed:** 18-MAY-16 by JL **Method:** SM19 2540G
**ClientID:** RA-19 (5-6)

| | | |
|---|---|---|
| Wet Weight (Total) | 13.4 | g |
| Tare Weight | 1.03 | g |
| Dry Weight (Total) | 10.74 | g |
| Solids, Percent | 78.5 | % |

**Sample:** FA33878-4 **Analyzed:** 18-MAY-16 by JL **Method:** SM19 2540G
**ClientID:** RA-19 (6.2-7.2)

| | | |
|---|---|---|
| Wet Weight (Total) | 16.62 | g |
| Tare Weight | 1.08 | g |
| Dry Weight (Total) | 12.91 | g |
| Solids, Percent | 76.1 | % |