UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CHICAGO REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

LABORATORY ACCREDITATION BUREAU
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Certificate # L2280 Testing

Date: **11/8/2011**

Subject: **Review of Region 5 Data for Blue Island Phenols**

From: **Chi Tang**
Region 5 Chicago Regional Laboratory

To: **RCRA, LCD, US EPA Region 5**
77 West Jackson Boulevard
Chicago, IL 60604

The data being transmitted under this cover memo successfully passed CRL's internal data review procedures as documented in our current Quality Management Plan (QMP) and appropriate Standard Operating Procedures (SOPs). Please be aware that CRL does not perform data validation which is based on your data quality objectives. This function must be performed independently of the laboratory generating the data.

Results in this report represent only the samples analyzed.

Please have the U.S. EPA Project Manager/Officer call the CRL Sample Coordinator at (312) 353-0375 for any comments or questions.

Attached are Results for: Blue Island Phenols

11-09-2011 A10:24

Data Management Coordinator and Date Received

11-09-2011 A10:24

Date Transmitted: ____/____/_____

Analyses included in this report:

TCLP/ZHE VOLATILES

Environmental Protection Agency Region 5
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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

ANALYSIS CASE NARRATIVE

(312) 353-9068

General Information

Chicago Regional Laboratory received six water and waste samples on July 13, 2011 for the analysis of TCLP/ZHE volatile organic compounds. All samples were received at 15.2 degrees C, which is outside the temperature requirement. All samples went through TCLP extraction according to CRL SOP GEN019 Rev. 2.2 and the TCLP extracts were analyzed for volatile organic compounds according to CRL SOP MS023 Rev. 5.0. All TCLP extractions and analyses were performed within the holding time requirement.

Sample Analysis and Results

All six samples went through the percent solid determination on September 21, 2011. All six samples contained the dry solids less than 0.5% so the liquid portion of the sample, after filtration, is defined as the TCLP extract.

Samples 1109008-01 to 1109008-03 (BIP-1 to BIP-3) did not contain any target compounds above the TCLP regulation limits.

Samples 1109008-04 and 1109008-05 (BIP-4 and BIP-5) contained acetone above the report limit.

Sample 1109008-07 (BIP-7) had two separate layers, oil on the top and aqueous on the bottom. The sample was phase separated with the volume of the aqueous phase at 139.1 mL and the volume of the oil phase at 125 mL. The aqueous portion was assigned as sample 1109008-08 and the oil portion was assigned as sample 1109008-09. 5 mL of the oil sample (1109008-09) was extracted with 5 mL of Methanol and the Methanol extract was then diluted with de-ionized water and analyzed as a medium level sample. The aqueous sample (1109008-08) was diluted with de-ionized water prior to analysis.

Benzene, Toluene and Isopropylbenzene were detected in both the oil portion (1109008-09) and the aqueous portion (1109008-08). Acetone was only detected at the aqueous portion. Results of Benzene, Toluene, Isopropylbenzene and Acetone of both phases were mathematically combined by using a simple volume-weighted average based on the equation below:

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(V1 x C1 + V2 x C2) / (V1 + V2)

Where:

V1 = The volume of the aqueous phase (L).
C1 = The concentration the analyte of concern in the aqueous phase (mg/L).
V2 = the volume of the oil phase (L).
V2 = The concentration of the analyte of concern in the oil phase (mg/L).

The combined results were then reported as the concentrations of the original sample, 1109008-07.

Quality Control

Initial Calibration (IC):

An IC was run on September 26, 2011 with six points for all compounds except Vinyl Chloride, which only included five points, with the highest concentration point not being used. All compounds met the QC limit of 30% RSD.

The IC was checked with a separate IC Check standard solution and there are seven compounds, Bromoform, Isopropylbenzene, 1,1,2,2-Tetrachloroethane, 1,2,3-Trichloropropane, tert-Butylbenzene, p-Isopropyltoluene and Naphthalene, exceeded the QC limit of 30% D. Results of these seven compounds in all samples were qualified with "J" as estimated.

Continuing Calibration Verification (CCV) and Closing Continuing Calibration Verification (CCCV):

A CCV run at the end of October 26, 2011 sequence had two compounds, Vinyl chloride and Isopropylbenzene, exceeded the upper control limit of 30%D. Results of these two compound analyzed on October 26, 2011 were qualified with "J" as estimated if not detected and qualified with "K" as biased high if detected.

A CCV standard with 1% of Methanol added was analyzed on October 27, 2011 at the beginning of the sequence for the analysis of the oil sample 1109008-09. Three compounds, Vinyl Chloride, Bromomethane and

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Chloroethane, exceeded the lower control limit of 25% D. Since none of these three compounds were detected in sample 1109008-09, a new IC with Methanol added was not performed. Results of these three compounds in sample 1109008-09 were qualified with "J" as estimated. A similar CCV was also analyzed at the end of the sequence for the oil sample 1109008-09 and two additional compounds failed the control limit of 25% D, Carbon Tetrachloride exceeded the lower control limit and Isopropylbenzene exceeded the upper control limit. Carbon Tetrachloride result was qualified with "J" as estimated and Isopropylbenzene result was qualified with "K" as biased high.

Another CCV standard without adding Methanol was also analyzed on October 27, 2011 for the analysis of the aqueous sample 1109008-08. Two compounds, Styrene and Isopropylbenzene, exceeded the upper control limit of 25% D. Only Isopropylbenzene result in sample 1109008-08 was qualified with "K" as biased high because it was detected. A similar CCV was also analyzed at the end of the sequence for the analysis of the aqueous sample 1109008-08 and one additional compound, m/p-Xylene, which exceeded the upper control limits of 25% D. The m/p-Xylene result was not qualified because it was not detected in the aqueous sample.

Surrogate Recoveries:

Samples B109064-BLK1, B109064-BLK2, 1109008-01, 1109008-03, 1109008-04 and 1109008-05 had two surrogate compounds exceed the recovery limits, the recoveries of Benzene-d6 exceeded the lower control limit while the recoveries of 4-Bromoflurobenzene exceeded the higher control limits. Since none of the target compounds were detected above the report limits in these five samples, results were not qualified.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis:

Recoveries of Bromomethane, Carbon Disulfide, Chloroethane and 2-Hexanone exceeded the lower control limits in both the MS and MSD analyses. Since these four compounds were not detected in the native sample 1109008-01, results of these four compounds in sample 1109008-01 were qualified with "UJ" as estimated.

Other quality controls not specifically discussed in this section met CRL's quality control specified in the SOP.

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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BIP-1	1109008-01	Water	Sep-13-11 09:15	Sep-13-11 15:11
BIP-2	1109008-02	Water	Sep-13-11 09:21	Sep-13-11 15:11
BIP-3	1109008-03	Water	Sep-13-11 09:29	Sep-13-11 15:11
BIP-4	1109008-04	Water	Sep-13-11 10:07	Sep-13-11 15:11
BIP-5	1109008-05	Water	Sep-13-11 10:18	Sep-13-11 15:11
BIP-7	1109008-07	Water	Sep-13-11 11:17	Sep-13-11 15:11
BIP-7, 9008-07 aqueous phase	1109008-08	Water	Sep-13-11 11:17	Sep-13-11 15:11
BIP-7, 9008-07 oil phase	1109008-09	Soil	Sep-13-11 11:17	Sep-13-11 15:11

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Volatiles by GC/MS, EPA 8260B (modified)
US EPA Region 5 Chicago Regional Laboratory

BIP-1 (1109008-01) Water Sampled: Sep-13-11 09:15 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Acetone	U	J		0.0250	mg/L	1	B109064	Sep-21-11	Sep-26-11
Acrolein	U			0.0250	"	"	"	"	"
Acrylonitrile	U			0.0250	"	"	"	"	"
Benzene	U			5.00E-3	"	"	"	"	"
Bromobenzene	U			0.0100	"	"	"	"	"
Bromochloromethane	U			5.00E-3	"	"	"	"	"
Bromodichloromethane	U			5.00E-3	"	"	"	"	"
Bromoform	U	J		5.00E-3	"	"	"	"	"
Bromomethane	U	J		0.0100	"	"	"	"	"
2-Butanone	U			0.0250	"	"	"	"	"
n-Butylbenzene	U			5.00E-3	"	"	"	"	"
sec-Butylbenzene	U			5.00E-3	"	"	"	"	"
tert-Butylbenzene	U	J		5.00E-3	"	"	"	"	"
Carbon disulfide	U	J		5.00E-3	"	"	"	"	"
Carbon tetrachloride	U			5.00E-3	"	"	"	"	"
Chlorobenzene	U			5.00E-3	"	"	"	"	"

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Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloroethane	U	J		0.0100	mg/L	1	B109064	Sep-21-11	Sep-26-11
Chloroform	U			5.00E-3	"	"	"	"	"
Chloromethane	U			0.0100	"	"	"	"	"
2-Chlorotoluene	U			5.00E-3	"	"	"	"	"
4-Chlorotoluene	U			5.00E-3	"	"	"	"	"
Dibromochloromethane	U			5.00E-3	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U			5.00E-3	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			5.00E-3	"	"	"	"	"
Dibromomethane	U			5.00E-3	"	"	"	"	"
1,2-Dichlorobenzene	U			5.00E-3	"	"	"	"	"
1,3-Dichlorobenzene	U			5.00E-3	"	"	"	"	"
1,4-Dichlorobenzene	U			5.00E-3	"	"	"	"	"
1,1-Dichloroethane	U			5.00E-3	"	"	"	"	"
1,2-Dichloroethane	U			5.00E-3	"	"	"	"	"
1,1-Dichloroethene	U			5.00E-3	"	"	"	"	"
cis-1,2-Dichloroethene	U			5.00E-3	"	"	"	"	"

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Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
trans-1,2-Dichloroethene	U			5.00E-3	mg/L	1	B109064	Sep-21-11	Sep-26-11
1,2-Dichloropropane	U			5.00E-3	"	"	"	"	"
1,3-Dichloropropane	U			5.00E-3	"	"	"	"	"
2,2-Dichloropropane	U			5.00E-3	"	"	"	"	"
1,1-Dichloropropene	U			5.00E-3	"	"	"	"	"
cis-1,3-Dichloropropene	U			5.00E-3	"	"	"	"	"
trans-1,3-Dichloropropene	U			5.00E-3	"	"	"	"	"
Ethylbenzene	U			5.00E-3	"	"	"	"	"
Hexachlorobutadiene	U			5.00E-3	"	"	"	"	"
2-Hexanone	U	J		0.0100	"	"	"	"	"
Vinyl chloride	U	J		0.0100	"	"	"	"	"
Isopropylbenzene	U	J		5.00E-3	"	"	"	"	"
p-Isopropyltoluene	U	J		5.00E-3	"	"	"	"	"
Methylene chloride	U			5.00E-3	"	"	"	"	"
4-Methyl-2-pentanone	U			0.0100	"	"	"	"	"
Naphthalene	U	J		5.00E-3	"	"	"	"	"

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Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
n-Propylbenzene	U			5.00E-3	mg/L	1	B109064	Sep-21-11	Sep-26-11
Styrene	U			5.00E-3	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U	J		5.00E-3	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			5.00E-3	"	"	"	"	"
Tetrachloroethene	U			5.00E-3	"	"	"	"	"
Toluene	U			5.00E-3	"	"	"	"	"
1,2,3-Trichlorobenzene	U			5.00E-3	"	"	"	"	"
1,2,4-Trichlorobenzene	U			5.00E-3	"	"	"	"	"
1,1,2-Trichloroethane	U			5.00E-3	"	"	"	"	"
1,1,1-Trichloroethane	U			5.00E-3	"	"	"	"	"
Trichloroethene	U			5.00E-3	"	"	"	"	"
1,2,3-Trichloropropane	U	J		5.00E-3	"	"	"	"	"
1,3,5-Trimethylbenzene	U			5.00E-3	"	"	"	"	"
1,2,4-Trimethylbenzene	U			5.00E-3	"	"	"	"	"
m+p-Xylene	U			0.0100	"	"	"	"	"
o-Xylene	U			5.00E-3	"	"	"	"	"

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Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: Benzene-d6	0.0073			*73.5 %*		*78-114*	*B109064*	*Sep-21-11*	*Sep-26-11*
Surrogate: Toluene-d8	0.0094			*93.6 %*		*85-115*	"	"	"
Surrogate: 4-Bromofluorobenzene	0.011			*112 %*		*79-109*	"	"	"

BIP-2 (1109008-02) Water Sampled: Sep-13-11 09:21 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Acetone	U	J		0.125	mg/L	5	B109064	Sep-21-11	Sep-26-11
Acrolein	U			0.125	"	"	"	"	"
Acrylonitrile	U			0.125	"	"	"	"	"
Benzene	U			0.0250	"	"	"	"	"
Bromobenzene	U			0.0500	"	"	"	"	"
Bromochloromethane	U			0.0250	"	"	"	"	"
Bromodichloromethane	U			0.0250	"	"	"	"	"
Bromoform	U	J		0.0250	"	"	"	"	"
Bromomethane	U			0.0500	"	"	"	"	"
2-Butanone	U			0.125	"	"	"	"	"
n-Butylbenzene	U			0.0250	"	"	"	"	"
sec-Butylbenzene	U			0.0250	"	"	"	"	"

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Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
tert-Butylbenzene	U	J		0.0250	mg/L	5	B109064	Sep-21-11	Sep-26-11
Carbon disulfide	U			0.0250	"	"	"	"	"
Carbon tetrachloride	U			0.0250	"	"	"	"	"
Chlorobenzene	U			0.0250	"	"	"	"	"
Chloroethane	U			0.0500	"	"	"	"	"
Chloroform	U			0.0250	"	"	"	"	"
Chloromethane	U			0.0500	"	"	"	"	"
2-Chlorotoluene	U			0.0250	"	"	"	"	"
4-Chlorotoluene	U			0.0250	"	"	"	"	"
Dibromochloromethane	U			0.0250	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U			0.0250	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			0.0250	"	"	"	"	"
Dibromomethane	U			0.0250	"	"	"	"	"
1,2-Dichlorobenzene	U			0.0250	"	"	"	"	"
1,3-Dichlorobenzene	U			0.0250	"	"	"	"	"
1,4-Dichlorobenzene	U			0.0250	"	"	"	"	"

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Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1-Dichloroethane	U			0.0250	mg/L	5	B109064	Sep-21-11	Sep-26-11
1,2-Dichloroethane	U			0.0250	"	"	"	"	"
1,1-Dichloroethene	U			0.0250	"	"	"	"	"
cis-1,2-Dichloroethene	U			0.0250	"	"	"	"	"
trans-1,2-Dichloroethene	U			0.0250	"	"	"	"	"
1,2-Dichloropropane	U			0.0250	"	"	"	"	"
1,3-Dichloropropane	U			0.0250	"	"	"	"	"
2,2-Dichloropropane	U			0.0250	"	"	"	"	"
1,1-Dichloropropene	U			0.0250	"	"	"	"	"
cis-1,3-Dichloropropene	U			0.0250	"	"	"	"	"
trans-1,3-Dichloropropene	U			0.0250	"	"	"	"	"
Ethylbenzene	U			0.0250	"	"	"	"	"
Hexachlorobutadiene	U			0.0250	"	"	"	"	"
2-Hexanone	U			0.0500	"	"	"	"	"
Vinyl chloride	U	J		0.0500	"	"	"	"	"
Isopropylbenzene	U	J		0.0250	"	"	"	"	"

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Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
p-Isopropyltoluene	U	J		0.0250	mg/L	5	B109064	Sep-21-11	Sep-26-11
Methylene chloride	U			0.0250	"	"	"	"	"
4-Methyl-2-pentanone	U			0.0500	"	"	"	"	"
Naphthalene	U	J		0.0250	"	"	"	"	"
n-Propylbenzene	U			0.0250	"	"	"	"	"
Styrene	U			0.0250	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U	J		0.0250	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			0.0250	"	"	"	"	"
Tetrachloroethene	U			0.0250	"	"	"	"	"
Toluene	U			0.0250	"	"	"	"	"
1,2,3-Trichlorobenzene	U			0.0250	"	"	"	"	"
1,2,4-Trichlorobenzene	U			0.0250	"	"	"	"	"
1,1,2-Trichloroethane	U			0.0250	"	"	"	"	"
1,1,1-Trichloroethane	U			0.0250	"	"	"	"	"
Trichloroethene	U			0.0250	"	"	"	"	"
1,2,3-Trichloropropane	U	J		0.0250	"	"	"	"	"

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Chicago IL, 60604	Project Manager: Mike Beedle	Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified)
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BIP-2 (1109008-02) Water Sampled: Sep-13-11 09:21 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,3,5-Trimethylbenzene	U			0.0250	mg/L	5	B109064	Sep-21-11	Sep-26-11
1,2,4-Trimethylbenzene	U			0.0250	"	"	"	"	"
m+p-Xylene	U			0.0500	"	"	"	"	"
o-Xylene	U			0.0250	"	"	"	"	"
Surrogate: Benzene-d6	0.0079			*79.2 %*	*78-114*	"	"	"	
Surrogate: Toluene-d8	0.0094			*94.1 %*	*85-115*	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.011			*108 %*	*79-109*	"	"	"	

BIP-3 (1109008-03) Water Sampled: Sep-13-11 09:29 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Acetone	U	J		0.125	mg/L	5	B109064	Sep-21-11	Sep-26-11
Acrolein	U			0.125	"	"	"	"	"
Acrylonitrile	U			0.125	"	"	"	"	"
Benzene	U			0.0250	"	"	"	"	"
Bromobenzene	U			0.0500	"	"	"	"	"
Bromochloromethane	U			0.0250	"	"	"	"	"
Bromodichloromethane	U			0.0250	"	"	"	"	"
Bromoform	U	J		0.0250	"	"	"	"	"

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Certificate # L2280 Testing

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified)
US EPA Region 5 Chicago Regional Laboratory

BIP-3 (1109008-03) Water Sampled: Sep-13-11 09:29 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromomethane	U			0.0500	mg/L	5	B109064	Sep-21-11	Sep-26-11
2-Butanone	U			0.125	"	"	"	"	"
n-Butylbenzene	U			0.0250	"	"	"	"	"
sec-Butylbenzene	U			0.0250	"	"	"	"	"
tert-Butylbenzene	U	J		0.0250	"	"	"	"	"
Carbon disulfide	U			0.0250	"	"	"	"	"
Carbon tetrachloride	U			0.0250	"	"	"	"	"
Chlorobenzene	U			0.0250	"	"	"	"	"
Chloroethane	U			0.0500	"	"	"	"	"
Chloroform	U			0.0250	"	"	"	"	"
Chloromethane	U			0.0500	"	"	"	"	"
2-Chlorotoluene	U			0.0250	"	"	"	"	"
4-Chlorotoluene	U			0.0250	"	"	"	"	"
Dibromochloromethane	U			0.0250	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U			0.0250	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			0.0250	"	"	"	"	"

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Certificate # L2280 Testing

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified)
US EPA Region 5 Chicago Regional Laboratory

BIP-3 (1109008-03) Water Sampled: Sep-13-11 09:29 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Dibromomethane	U			0.0250	mg/L	5	B109064	Sep-21-11	Sep-26-11
1,2-Dichlorobenzene	U			0.0250	"	"	"	"	"
1,3-Dichlorobenzene	U			0.0250	"	"	"	"	"
1,4-Dichlorobenzene	U			0.0250	"	"	"	"	"
1,1-Dichloroethane	U			0.0250	"	"	"	"	"
1,2-Dichloroethane	U			0.0250	"	"	"	"	"
1,1-Dichloroethene	U			0.0250	"	"	"	"	"
cis-1,2-Dichloroethene	U			0.0250	"	"	"	"	"
trans-1,2-Dichloroethene	U			0.0250	"	"	"	"	"
1,2-Dichloropropane	U			0.0250	"	"	"	"	"
1,3-Dichloropropane	U			0.0250	"	"	"	"	"
2,2-Dichloropropane	U			0.0250	"	"	"	"	"
1,1-Dichloropropene	U			0.0250	"	"	"	"	"
cis-1,3-Dichloropropene	U			0.0250	"	"	"	"	"
trans-1,3-Dichloropropene	U			0.0250	"	"	"	"	"
Ethylbenzene	U			0.0250	"	"	"	"	"

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified)
US EPA Region 5 Chicago Regional Laboratory

BIP-3 (1109008-03) Water Sampled: Sep-13-11 09:29 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Hexachlorobutadiene	U			0.0250	mg/L	5	B109064	Sep-21-11	Sep-26-11
2-Hexanone	U			0.0500	"	"	"	"	"
Vinyl chloride	U	J		0.0500	"	"	"	"	"
Isopropylbenzene	U	J		0.0250	"	"	"	"	"
p-Isopropyltoluene	U	J		0.0250	"	"	"	"	"
Methylene chloride	U			0.0250	"	"	"	"	"
4-Methyl-2-pentanone	U			0.0500	"	"	"	"	"
Naphthalene	U	J		0.0250	"	"	"	"	"
n-Propylbenzene	U			0.0250	"	"	"	"	"
Styrene	U			0.0250	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U	J		0.0250	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			0.0250	"	"	"	"	"
Tetrachloroethene	U			0.0250	"	"	"	"	"
Toluene	U			0.0250	"	"	"	"	"
1,2,3-Trichlorobenzene	U			0.0250	"	"	"	"	"
1,2,4-Trichlorobenzene	U			0.0250	"	"	"	"	"

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RCRA, LCD, US EPA Region 5	Project: Blue Island Phenols	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Mike Beedle	Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified)
US EPA Region 5 Chicago Regional Laboratory

BIP-3 (1109008-03) Water Sampled: Sep-13-11 09:29 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1,2-Trichloroethane	U			0.0250	mg/L	5	B109064	Sep-21-11	Sep-26-11
1,1,1-Trichloroethane	U			0.0250	"	"	"	"	"
Trichloroethene	U			0.0250	"	"	"	"	"
1,2,3-Trichloropropane	U	J		0.0250	"	"	"	"	"
1,3,5-Trimethylbenzene	U			0.0250	"	"	"	"	"
1,2,4-Trimethylbenzene	U			0.0250	"	"	"	"	"
m+p-Xylene	U			0.0500	"	"	"	"	"
o-Xylene	U			0.0250	"	"	"	"	"

Surrogate: Benzene-d6	0.0073	*72.9 %*	*78-114*	"	"	"
Surrogate: Toluene-d8	0.0090	*89.6 %*	*85-115*	"	"	"
Surrogate: 4-Bromofluorobenzene	0.011	*115 %*	*79-109*	"	"	"

BIP-4 (1109008-04) Water Sampled: Sep-13-11 10:07 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Acetone	1.08	J		0.250	mg/L	10	B109064	Sep-21-11	Sep-26-11
Acrolein	U			0.250	"	"	"	"	"
Acrylonitrile	U			0.250	"	"	"	"	"
Benzene	U			0.0500	"	"	"	"	"

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified)
US EPA Region 5 Chicago Regional Laboratory

BIP-4 (1109008-04) Water Sampled: Sep-13-11 10:07 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Bromobenzene	U			0.100	mg/L	10	B109064	Sep-21-11	Sep-26-11
Bromochloromethane	U			0.0500	"	"	"	"	"
Bromodichloromethane	U			0.0500	"	"	"	"	"
Bromoform	U	J		0.0500	"	"	"	"	"
Bromomethane	U			0.100	"	"	"	"	"
2-Butanone	U			0.250	"	"	"	"	"
n-Butylbenzene	U			0.0500	"	"	"	"	"
sec-Butylbenzene	U			0.0500	"	"	"	"	"
tert-Butylbenzene	U	J		0.0500	"	"	"	"	"
Carbon disulfide	U			0.0500	"	"	"	"	"
Carbon tetrachloride	U			0.0500	"	"	"	"	"
Chlorobenzene	U			0.0500	"	"	"	"	"
Chloroethane	U			0.100	"	"	"	"	"
Chloroform	U			0.0500	"	"	"	"	"
Chloromethane	U			0.100	"	"	"	"	"
2-Chlorotoluene	U			0.0500	"	"	"	"	"

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RCRA, LCD, US EPA Region 5	Project: Blue Island Phenols	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Mike Beedle	Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified)
US EPA Region 5 Chicago Regional Laboratory

BIP-4 (1109008-04) Water Sampled: Sep-13-11 10:07 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
4-Chlorotoluene	U			0.0500	mg/L	10	B109064	Sep-21-11	Sep-26-11
Dibromochloromethane	U			0.0500	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U			0.0500	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			0.0500	"	"	"	"	"
Dibromomethane	U			0.0500	"	"	"	"	"
1,2-Dichlorobenzene	U			0.0500	"	"	"	"	"
1,3-Dichlorobenzene	U			0.0500	"	"	"	"	"
1,4-Dichlorobenzene	U			0.0500	"	"	"	"	"
1,1-Dichloroethane	U			0.0500	"	"	"	"	"
1,2-Dichloroethane	U			0.0500	"	"	"	"	"
1,1-Dichloroethene	U			0.0500	"	"	"	"	"
cis-1,2-Dichloroethene	U			0.0500	"	"	"	"	"
trans-1,2-Dichloroethene	U			0.0500	"	"	"	"	"
1,2-Dichloropropane	U			0.0500	"	"	"	"	"
1,3-Dichloropropane	U			0.0500	"	"	"	"	"
2,2-Dichloropropane	U			0.0500	"	"	"	"	"

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified)
US EPA Region 5 Chicago Regional Laboratory

BIP-4 (1109008-04) Water Sampled: Sep-13-11 10:07 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1-Dichloropropene	U			0.0500	mg/L	10	B109064	Sep-21-11	Sep-26-11
cis-1,3-Dichloropropene	U			0.0500	"	"	"	"	"
trans-1,3-Dichloropropene	U			0.0500	"	"	"	"	"
Ethylbenzene	U			0.0500	"	"	"	"	"
Hexachlorobutadiene	U			0.0500	"	"	"	"	"
2-Hexanone	U			0.100	"	"	"	"	"
Vinyl chloride	U	J		0.100	"	"	"	"	"
Isopropylbenzene	U	J		0.0500	"	"	"	"	"
p-Isopropyltoluene	U	J		0.0500	"	"	"	"	"
Methylene chloride	U			0.0500	"	"	"	"	"
4-Methyl-2-pentanone	U			0.100	"	"	"	"	"
Naphthalene	U	J		0.0500	"	"	"	"	"
n-Propylbenzene	U			0.0500	"	"	"	"	"
Styrene	U			0.0500	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U	J		0.0500	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			0.0500	"	"	"	"	"

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RCRA, LCD, US EPA Region 5	Project: Blue Island Phenols	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Mike Beedle	Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified)
US EPA Region 5 Chicago Regional Laboratory

BIP-4 (1109008-04) Water Sampled: Sep-13-11 10:07 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Tetrachloroethene	U			0.0500	mg/L	10	B109064	Sep-21-11	Sep-26-11
Toluene	U			0.0500	"	"	"	"	"
1,2,3-Trichlorobenzene	U			0.0500	"	"	"	"	"
1,2,4-Trichlorobenzene	U			0.0500	"	"	"	"	"
1,1,2-Trichloroethane	U			0.0500	"	"	"	"	"
1,1,1-Trichloroethane	U			0.0500	"	"	"	"	"
Trichloroethene	U			0.0500	"	"	"	"	"
1,2,3-Trichloropropane	U	J		0.0500	"	"	"	"	"
1,3,5-Trimethylbenzene	U			0.0500	"	"	"	"	"
1,2,4-Trimethylbenzene	U			0.0500	"	"	"	"	"
m+p-Xylene	U			0.100	"	"	"	"	"
o-Xylene	U			0.0500	"	"	"	"	"

Surrogate: Benzene-d6	0.0078	*77.7 %*	*78-114*	"	"	"
Surrogate: Toluene-d8	0.0096	*95.8 %*	*85-115*	"	"	"
Surrogate: 4-Bromofluorobenzene	0.012	*118 %*	*79-109*	"	"	"

BIP-5 (1109008-05) Water Sampled: Sep-13-11 10:18 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified)
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BIP-5 (1109008-05) Water Sampled: Sep-13-11 10:18 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Acetone	1.57	J		0.250	mg/L	10	B109064	Sep-21-11	Sep-26-11
Acrolein	U			0.250	"	"	"	"	"
Acrylonitrile	U			0.250	"	"	"	"	"
Benzene	U			0.0500	"	"	"	"	"
Bromobenzene	U			0.100	"	"	"	"	"
Bromochloromethane	U			0.0500	"	"	"	"	"
Bromodichloromethane	U			0.0500	"	"	"	"	"
Bromoform	U	J		0.0500	"	"	"	"	"
Bromomethane	U			0.100	"	"	"	"	"
2-Butanone	U			0.250	"	"	"	"	"
n-Butylbenzene	U			0.0500	"	"	"	"	"
sec-Butylbenzene	U			0.0500	"	"	"	"	"
tert-Butylbenzene	U	J		0.0500	"	"	"	"	"
Carbon disulfide	U			0.0500	"	"	"	"	"
Carbon tetrachloride	U			0.0500	"	"	"	"	"
Chlorobenzene	U			0.0500	"	"	"	"	"
Chloroethane	U			0.100	"	"	"	"	"

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified)
US EPA Region 5 Chicago Regional Laboratory

BIP-5 (1109008-05) Water Sampled: Sep-13-11 10:18 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Chloroform	U			0.0500	mg/L	10	B109064	Sep-21-11	Sep-26-11
Chloromethane	U			0.100	"	"	"	"	"
2-Chlorotoluene	U			0.0500	"	"	"	"	"
4-Chlorotoluene	U			0.0500	"	"	"	"	"
Dibromochloromethane	U			0.0500	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U			0.0500	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			0.0500	"	"	"	"	"
Dibromomethane	U			0.0500	"	"	"	"	"
1,2-Dichlorobenzene	U			0.0500	"	"	"	"	"
1,3-Dichlorobenzene	U			0.0500	"	"	"	"	"
1,4-Dichlorobenzene	U			0.0500	"	"	"	"	"
1,1-Dichloroethane	U			0.0500	"	"	"	"	"
1,2-Dichloroethane	U			0.0500	"	"	"	"	"
1,1-Dichloroethene	U			0.0500	"	"	"	"	"
cis-1,2-Dichloroethene	U			0.0500	"	"	"	"	"
trans-1,2-Dichloroethene	U			0.0500	"	"	"	"	"

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified)
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BIP-5 (1109008-05) Water Sampled: Sep-13-11 10:18 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dichloropropane	U			0.0500	mg/L	10	B109064	Sep-21-11	Sep-26-11
1,3-Dichloropropane	U			0.0500	"	"	"	"	"
2,2-Dichloropropane	U			0.0500	"	"	"	"	"
1,1-Dichloropropene	U			0.0500	"	"	"	"	"
cis-1,3-Dichloropropene	U			0.0500	"	"	"	"	"
trans-1,3-Dichloropropene	U			0.0500	"	"	"	"	"
Ethylbenzene	U			0.0500	"	"	"	"	"
Hexachlorobutadiene	U			0.0500	"	"	"	"	"
2-Hexanone	U			0.100	"	"	"	"	"
Vinyl chloride	U	J		0.100	"	"	"	"	"
Isopropylbenzene	U	J		0.0500	"	"	"	"	"
p-Isopropyltoluene	U	J		0.0500	"	"	"	"	"
Methylene chloride	U			0.0500	"	"	"	"	"
4-Methyl-2-pentanone	U			0.100	"	"	"	"	"
Naphthalene	U	J		0.0500	"	"	"	"	"
n-Propylbenzene	U			0.0500	"	"	"	"	"

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Certificate # L2280 Testing

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified)
US EPA Region 5 Chicago Regional Laboratory

BIP-5 (1109008-05) Water Sampled: Sep-13-11 10:18 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Styrene	U			0.0500	mg/L	10	B109064	Sep-21-11	Sep-26-11
1,1,2,2-Tetrachloroethane	U	J		0.0500	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			0.0500	"	"	"	"	"
Tetrachloroethene	U			0.0500	"	"	"	"	"
Toluene	U			0.0500	"	"	"	"	"
1,2,3-Trichlorobenzene	U			0.0500	"	"	"	"	"
1,2,4-Trichlorobenzene	U			0.0500	"	"	"	"	"
1,1,2-Trichloroethane	U			0.0500	"	"	"	"	"
1,1,1-Trichloroethane	U			0.0500	"	"	"	"	"
Trichloroethene	U			0.0500	"	"	"	"	"
1,2,3-Trichloropropane	U	J		0.0500	"	"	"	"	"
1,3,5-Trimethylbenzene	U			0.0500	"	"	"	"	"
1,2,4-Trimethylbenzene	U			0.0500	"	"	"	"	"
m+p-Xylene	U			0.100	"	"	"	"	"
o-Xylene	U			0.0500	"	"	"	"	"
Surrogate: Benzene-d6	0.0074			*74.1 %*	*78-114*	"	"	"	

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified)
US EPA Region 5 Chicago Regional Laboratory

BIP-5 (1109008-05) Water Sampled: Sep-13-11 10:18 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: Toluene-d8	0.0093			*92.6 %*		*85-115*	*B109064*	*Sep-21-11*	*Sep-26-11*
Surrogate: 4-Bromofluorobenzene	0.011			*113 %*		*79-109*	*"*	*"*	*"*

BIP-7 (1109008-07) Water Sampled: Sep-13-11 11:17 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Acetone	737	J		62.5	mg/L	2500	B109064	Sep-21-11	Sep-27-11
Acrolein	U			0.0250	"	1	"	"	"
Acrylonitrile	U			0.0250	"	"	"	"	"
Benzene	179			100	"	20000	"	"	"
Bromobenzene	U			0.0100	"	1	"	"	"
Bromochloromethane	U			5.00E-3	"	"	"	"	"
Bromodichloromethane	U			5.00E-3	"	"	"	"	"
Bromoform	U	J		5.00E-3	"	"	"	"	"
Bromomethane	U			0.0100	"	"	"	"	"
2-Butanone	U			0.0250	"	"	"	"	"
n-Butylbenzene	U			5.00E-3	"	"	"	"	"
sec-Butylbenzene	U			5.00E-3	"	"	"	"	"
tert-Butylbenzene	U	J		5.00E-3	"	"	"	"	"
Carbon disulfide	U			5.00E-3	"	"	"	"	"

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Volatiles by GC/MS, EPA 8260B (modified)
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BIP-7 (1109008-07) Water Sampled: Sep-13-11 11:17 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Carbon tetrachloride	U			5.00E-3	mg/L	1	B109064	Sep-21-11	Sep-27-11
Chlorobenzene	U			5.00E-3	"	"	"	"	"
Chloroethane	U			0.0100	"	"	"	"	"
Chloroform	U			5.00E-3	"	"	"	"	"
Chloromethane	U			0.0100	"	"	"	"	"
2-Chlorotoluene	U			5.00E-3	"	"	"	"	"
4-Chlorotoluene	U			5.00E-3	"	"	"	"	"
Dibromochloromethane	U			5.00E-3	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U			5.00E-3	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			5.00E-3	"	"	"	"	"
Dibromomethane	U			5.00E-3	"	"	"	"	"
1,2-Dichlorobenzene	U			5.00E-3	"	"	"	"	"
1,3-Dichlorobenzene	U			5.00E-3	"	"	"	"	"
1,4-Dichlorobenzene	U			5.00E-3	"	"	"	"	"
1,1-Dichloroethane	U			5.00E-3	"	"	"	"	"
1,2-Dichloroethane	U			5.00E-3	"	"	"	"	"

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Volatiles by GC/MS, EPA 8260B (modified)
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BIP-7 (1109008-07) Water Sampled: Sep-13-11 11:17 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,1-Dichloroethene	U			5.00E-3	mg/L	1	B109064	Sep-21-11	Sep-27-11
cis-1,2-Dichloroethene	U			5.00E-3	"	"	"	"	"
trans-1,2-Dichloroethene	U			5.00E-3	"	"	"	"	"
1,2-Dichloropropane	U			5.00E-3	"	"	"	"	"
1,3-Dichloropropane	U			5.00E-3	"	"	"	"	"
2,2-Dichloropropane	U			5.00E-3	"	"	"	"	"
1,1-Dichloropropene	U			5.00E-3	"	"	"	"	"
cis-1,3-Dichloropropene	U			5.00E-3	"	"	"	"	"
trans-1,3-Dichloropropene	U			5.00E-3	"	"	"	"	"
Ethylbenzene	U			5.00E-3	"	"	"	"	"
Hexachlorobutadiene	U			5.00E-3	"	"	"	"	"
2-Hexanone	U			0.0100	"	"	"	"	"
Vinyl chloride	U	J		0.0100	"	"	"	"	"
Isopropylbenzene	32400	K		1250	"	250000	"	"	"
p-Isopropyltoluene	U	J		5.00E-3	"	1	"	"	"
Methylene chloride	U			5.00E-3	"	"	"	"	"
4-Methyl-2-pentanone	U			0.0100	"	"	"	"	"

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Volatiles by GC/MS, EPA 8260B (modified)
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BIP-7 (1109008-07) Water Sampled: Sep-13-11 11:17 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Naphthalene	U	J		5.00E-3	mg/L	1	B109064	Sep-21-11	Sep-27-11
n-Propylbenzene	U			5.00E-3	"	"	"	"	"
Styrene	U			5.00E-3	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U	J		5.00E-3	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			5.00E-3	"	"	"	"	"
Tetrachloroethene	U			5.00E-3	"	"	"	"	"
Toluene	1120			100	"	20000	"	"	"
1,2,3-Trichlorobenzene	U			5.00E-3	"	1	"	"	"
1,2,4-Trichlorobenzene	U			5.00E-3	"	"	"	"	"
1,1,2-Trichloroethane	U			5.00E-3	"	"	"	"	"
1,1,1-Trichloroethane	U			5.00E-3	"	"	"	"	"
Trichloroethene	U			5.00E-3	"	"	"	"	"
1,2,3-Trichloropropane	U	J		5.00E-3	"	"	"	"	"
1,3,5-Trimethylbenzene	U			5.00E-3	"	"	"	"	"
1,2,4-Trimethylbenzene	U			5.00E-3	"	"	"	"	"
m+p-Xylene	U			0.0100	"	"	"	"	"
o-Xylene	U			5.00E-3	"	"	"	"	"

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BIP-7 (1109008-07) Water Sampled: Sep-13-11 11:17 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Surrogate: Benzene-d6	0.0075			*74.9 %*		*78-114*	*B109064*	*Sep-21-11*	*Sep-27-11*
Surrogate: Toluene-d8	0.0092			*91.6 %*		*85-115*	"	"	"
Surrogate: 4-Bromofluorobenzene	0.010			*104 %*		*79-109*	"	"	"

BIP-7, 9008-07 aqueous phase (1109008-08) Water Sampled: Sep-13-11 11:17 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Acetone	**1400**	J		62.5	mg/L	2500	B109064	Sep-21-11	Sep-27-11
Acrolein	**U**			5.00	"	200	"	"	Sep-27-11
Acrylonitrile	**U**			5.00	"	"	"	"	"
Benzene	**16.0**			1.00	"	"	"	"	"
Bromobenzene	**U**			2.00	"	"	"	"	"
Bromochloromethane	**U**			1.00	"	"	"	"	"
Bromodichloromethane	**U**			1.00	"	"	"	"	"
Bromoform	**U**	J		1.00	"	"	"	"	"
Bromomethane	**U**			2.00	"	"	"	"	"
2-Butanone	**U**			5.00	"	"	"	"	"
n-Butylbenzene	**U**			1.00	"	"	"	"	"
sec-Butylbenzene	**U**			1.00	"	"	"	"	"
tert-Butylbenzene	**U**	J		1.00	"	"	"	"	"

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Volatiles by GC/MS, EPA 8260B (modified)
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BIP-7, 9008-07 aqueous phase (1109008-08) Water Sampled: Sep-13-11 11:17 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Carbon disulfide	U			1.00	mg/L	200	B109064	Sep-21-11	Sep-27-11
Carbon tetrachloride	U			1.00	"	"	"	"	"
Chlorobenzene	U			1.00	"	"	"	"	"
Chloroethane	U			2.00	"	"	"	"	"
Chloroform	U			1.00	"	"	"	"	"
Chloromethane	U			2.00	"	"	"	"	"
2-Chlorotoluene	U			1.00	"	"	"	"	"
4-Chlorotoluene	U			1.00	"	"	"	"	"
Dibromochloromethane	U			1.00	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U			1.00	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			1.00	"	"	"	"	"
Dibromomethane	U			1.00	"	"	"	"	"
1,2-Dichlorobenzene	U			1.00	"	"	"	"	"
1,3-Dichlorobenzene	U			1.00	"	"	"	"	"
1,4-Dichlorobenzene	U			1.00	"	"	"	"	"
1,1-Dichloroethane	U			1.00	"	"	"	"	"

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BIP-7, 9008-07 aqueous phase (1109008-08) Water Sampled: Sep-13-11 11:17 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2-Dichloroethane	U			1.00	mg/L	200	B109064	Sep-21-11	Sep-27-11
1,1-Dichloroethene	U			1.00	"	"	"	"	"
cis-1,2-Dichloroethene	U			1.00	"	"	"	"	"
trans-1,2-Dichloroethene	U			1.00	"	"	"	"	"
1,2-Dichloropropane	U			1.00	"	"	"	"	"
1,3-Dichloropropane	U			1.00	"	"	"	"	"
2,2-Dichloropropane	U			1.00	"	"	"	"	"
1,1-Dichloropropene	U			1.00	"	"	"	"	"
cis-1,3-Dichloropropene	U			1.00	"	"	"	"	"
trans-1,3-Dichloropropene	U			1.00	"	"	"	"	"
Ethylbenzene	U			1.00	"	"	"	"	"
Hexachlorobutadiene	U			1.00	"	"	"	"	"
2-Hexanone	U			2.00	"	"	"	"	"
Vinyl chloride	U			2.00	"	"	"	"	"
Isopropylbenzene	**806**	K		50.0	"	10000	"	"	Sep-27-11
p-Isopropyltoluene	U	J		1.00	"	200	"	"	Sep-27-11
Methylene chloride	U			1.00	"	"	"	"	"

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Volatiles by GC/MS, EPA 8260B (modified)
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BIP-7, 9008-07 aqueous phase (1109008-08) Water Sampled: Sep-13-11 11:17 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
4-Methyl-2-pentanone	U			2.00	mg/L	200	B109064	Sep-21-11	Sep-27-11
Naphthalene	U	J		1.00	"	"	"	"	"
n-Propylbenzene	U			1.00	"	"	"	"	"
Styrene	U			1.00	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U	J		1.00	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			1.00	"	"	"	"	"
Tetrachloroethene	U			1.00	"	"	"	"	"
Toluene	65.1			12.5	"	2500	"	"	Sep-27-11
1,2,3-Trichlorobenzene	U			1.00	"	200	"	"	Sep-27-11
1,2,4-Trichlorobenzene	U			1.00	"	"	"	"	"
1,1,2-Trichloroethane	U			1.00	"	"	"	"	"
1,1,1-Trichloroethane	U			1.00	"	"	"	"	"
Trichloroethene	U			1.00	"	"	"	"	"
1,2,3-Trichloropropane	U	J		1.00	"	"	"	"	"
1,3,5-Trimethylbenzene	U			1.00	"	"	"	"	"
1,2,4-Trimethylbenzene	U			1.00	"	"	"	"	"
m+p-Xylene	U			2.00	"	"	"	"	"

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Volatiles by GC/MS, EPA 8260B (modified)
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BIP-7, 9008-07 aqueous phase (1109008-08) Water Sampled: Sep-13-11 11:17 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
o-Xylene	U			1.00	mg/L	200	B109064	Sep-21-11	Sep-27-11
Surrogate: Benzene-d6	0.0075			*74.9 %*	*78-114*	"	"	"	
Surrogate: Toluene-d8	0.0092			*91.6 %*	*85-115*	"	"	"	
Surrogate: 4-Bromofluorobenzene	0.010			*104 %*	*79-109*	"	"	"	

BIP-7, 9008-07 oil phase (1109008-09) Soil Sampled: Sep-13-11 11:17 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
Acetone	U	J		500	mg/L	20000	B109064	Sep-21-11	Sep-27-11
Acrolein	U			500	"	"	"	"	"
Acrylonitrile	U			500	"	"	"	"	"
Benzene	**361**			100	"	"	"	"	"
Bromobenzene	U			200	"	"	"	"	"
Bromochloromethane	U			100	"	"	"	"	"
Bromodichloromethane	U			100	"	"	"	"	"
Bromoform	U	J		100	"	"	"	"	"
Bromomethane	U	J		200	"	"	"	"	"
2-Butanone	U			500	"	"	"	"	"
n-Butylbenzene	U			100	"	"	"	"	"

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BIP-7, 9008-07 oil phase (1109008-09) Soil Sampled: Sep-13-11 11:17 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
sec-Butylbenzene	U			100	mg/L	20000	B109064	Sep-21-11	Sep-27-11
tert-Butylbenzene	U	J		100	"	"	"	"	"
Carbon disulfide	U			100	"	"	"	"	"
Carbon tetrachloride	U	J		100	"	"	"	"	"
Chlorobenzene	U			100	"	"	"	"	"
Chloroethane	U	J		200	"	"	"	"	"
Chloroform	U			100	"	"	"	"	"
Chloromethane	U			200	"	"	"	"	"
2-Chlorotoluene	U			100	"	"	"	"	"
4-Chlorotoluene	U			100	"	"	"	"	"
Dibromochloromethane	U			100	"	"	"	"	"
1,2-Dibromo-3-chloropropane	U			100	"	"	"	"	"
1,2-Dibromoethane (EDB)	U			100	"	"	"	"	"
Dibromomethane	U			100	"	"	"	"	"
1,2-Dichlorobenzene	U			100	"	"	"	"	"
1,3-Dichlorobenzene	U			100	"	"	"	"	"

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified)
US EPA Region 5 Chicago Regional Laboratory

BIP-7, 9008-07 oil phase (1109008-09) Soil Sampled: Sep-13-11 11:17 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,4-Dichlorobenzene	U			100	mg/L	20000	B109064	Sep-21-11	Sep-27-11
1,1-Dichloroethane	U			100	"	"	"	"	"
1,2-Dichloroethane	U			100	"	"	"	"	"
1,1-Dichloroethene	U			100	"	"	"	"	"
cis-1,2-Dichloroethene	U			100	"	"	"	"	"
trans-1,2-Dichloroethene	U			100	"	"	"	"	"
1,2-Dichloropropane	U			100	"	"	"	"	"
1,3-Dichloropropane	U			100	"	"	"	"	"
2,2-Dichloropropane	U			100	"	"	"	"	"
1,1-Dichloropropene	U			100	"	"	"	"	"
cis-1,3-Dichloropropene	U			100	"	"	"	"	"
trans-1,3-Dichloropropene	U			100	"	"	"	"	"
Ethylbenzene	U			100	"	"	"	"	"
Hexachlorobutadiene	U			100	"	"	"	"	"
2-Hexanone	U			200	"	"	"	"	"
Vinyl chloride	U	J		200	"	"	"	"	"
Isopropylbenzene	**67600**	K		1250	"	250000	"	"	Sep-27-11

Chi Tang, Analyst

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ACCREDITED ISO/IEC 17025
Certificate # L2280 Testing

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified)
US EPA Region 5 Chicago Regional Laboratory

BIP-7, 9008-07 oil phase (1109008-09) Soil Sampled: Sep-13-11 11:17 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
p-Isopropyltoluene	U	J		100	mg/L	20000	B109064	Sep-21-11	Sep-27-11
Methylene chloride	U			100	"	"	"	"	"
4-Methyl-2-pentanone	U			200	"	"	"	"	"
Naphthalene	U	J		100	"	"	"	"	"
n-Propylbenzene	U			100	"	"	"	"	"
Styrene	U			100	"	"	"	"	"
1,1,2,2-Tetrachloroethane	U	J		100	"	"	"	"	"
1,1,1,2-Tetrachloroethane	U			100	"	"	"	"	"
Tetrachloroethene	U			100	"	"	"	"	"
Toluene	2300			100	"	"	"	"	"
1,2,3-Trichlorobenzene	U			100	"	"	"	"	"
1,2,4-Trichlorobenzene	U			100	"	"	"	"	"
1,1,2-Trichloroethane	U			100	"	"	"	"	"
1,1,1-Trichloroethane	U			100	"	"	"	"	"
Trichloroethene	U			100	"	"	"	"	"
1,2,3-Trichloropropane	U	J		100	"	"	"	"	"
1,3,5-Trimethylbenzene	U			100	"	"	"	"	"

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified)
US EPA Region 5 Chicago Regional Laboratory

BIP-7, 9008-07 oil phase (1109008-09) Soil Sampled: Sep-13-11 11:17 Received: Sep-13-11 15:11

Analyte	Result	Flags / Qualifiers	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed
1,2,4-Trimethylbenzene	U			100	mg/L	20000	B109064	Sep-21-11	Sep-27-11
m+p-Xylene	U			200	"	"	"	"	"
o-Xylene	U			100	"	"	"	"	"
Surrogate: Benzene-d6	0.0072			*71.7 %*	*78-114*		"	"	"
Surrogate: Toluene-d8	0.0094			*93.7 %*	*85-115*		"	"	"
Surrogate: 4-Bromofluorobenzene	0.010			*103 %*	*79-109*		"	"	"

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RCRA, LCD, US EPA Region 5	Project: Blue Island Phenols	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Mike Beedle	Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

Blank (B109064-BLK1) **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acetone	U	J		0.0250	mg/L						
Acrolein	U			0.0250	"						
Acrylonitrile	U			0.0250	"						
Benzene	U			5.00E-3	"						
Bromobenzene	U			0.0100	"						
Bromochloromethane	U			5.00E-3	"						
Bromodichloromethane	U			5.00E-3	"						
Bromoform	U	J		5.00E-3	"						
Bromomethane	U			0.0100	"						
2-Butanone	U			0.0250	"						
n-Butylbenzene	U			5.00E-3	"						
sec-Butylbenzene	U			5.00E-3	"						
tert-Butylbenzene	U	J		5.00E-3	"						
Carbon disulfide	U			5.00E-3	"						
Carbon tetrachloride	U			5.00E-3	"						
Chlorobenzene	U			5.00E-3	"						
Chloroethane	U			0.0100	"						
Chloroform	U			5.00E-3	"						
Chloromethane	U			0.0100	"						
2-Chlorotoluene	U			5.00E-3	"						
4-Chlorotoluene	U			5.00E-3	"						
Dibromochloromethane	U			5.00E-3	"						
1,2-Dibromo-3-chloropropane	U			5.00E-3	"						
1,2-Dibromoethane (EDB)	U			5.00E-3	"						
Dibromomethane	U			5.00E-3	"						
1,2-Dichlorobenzene	U			5.00E-3	"						
1,3-Dichlorobenzene	U			5.00E-3	"						
1,4-Dichlorobenzene	U			5.00E-3	"						
1,1-Dichloroethane	U			5.00E-3	"						
1,2-Dichloroethane	U			5.00E-3	"						
1,1-Dichloroethene	U			5.00E-3	"						
cis-1,2-Dichloroethene	U			5.00E-3	"						
trans-1,2-Dichloroethene	U			5.00E-3	"						

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

Blank (B109064-BLK1) **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichloropropane	U			5.00E-3	mg/L						
1,3-Dichloropropane	U			5.00E-3	"						
2,2-Dichloropropane	U			5.00E-3	"						
1,1-Dichloropropene	U			5.00E-3	"						
cis-1,3-Dichloropropene	U			5.00E-3	"						
trans-1,3-Dichloropropene	U			5.00E-3	"						
Ethylbenzene	U			5.00E-3	"						
Hexachlorobutadiene	U			5.00E-3	"						
2-Hexanone	U			0.0100	"						
Vinyl chloride	U	J		0.0100	"						
Isopropylbenzene	U	J		5.00E-3	"						
p-Isopropyltoluene	U	J		5.00E-3	"						
Methylene chloride	U			5.00E-3	"						
4-Methyl-2-pentanone	U			0.0100	"						
Naphthalene	U	J		5.00E-3	"						
n-Propylbenzene	U			5.00E-3	"						
Styrene	U			5.00E-3	"						
1,1,2,2-Tetrachloroethane	U	J		5.00E-3	"						
1,1,1,2-Tetrachloroethane	U			5.00E-3	"						
Tetrachloroethene	U			5.00E-3	"						
Toluene	U			5.00E-3	"						
1,2,3-Trichlorobenzene	U			5.00E-3	"						
1,2,4-Trichlorobenzene	U			5.00E-3	"						
1,1,2-Trichloroethane	U			5.00E-3	"						
1,1,1-Trichloroethane	U			5.00E-3	"						
Trichloroethene	U			5.00E-3	"						
1,2,3-Trichloropropane	U	J		5.00E-3	"						
1,3,5-Trimethylbenzene	U			5.00E-3	"						
1,2,4-Trimethylbenzene	U			5.00E-3	"						
m+p-Xylene	U			0.0100	"						
o-Xylene	U			5.00E-3	"						

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

Blank (B109064-BLK1) **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*0.0075*				*mg/L*	*1.000E-2*		*75.1*	*78-114*		
Surrogate: Toluene-d8	*0.0094*				*"*	*1.000E-2*		*94.5*	*85-115*		
Surrogate: 4-Bromofluorobenzene	*0.011*				*"*	*1.000E-2*		*110*	*79-109*		

Blank (B109064-BLK2) **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acetone	U	J		0.0250	mg/L						
Acrolein	U			0.0250	"						
Acrylonitrile	U			0.0250	"						
Benzene	U			5.00E-3	"						
Bromobenzene	U			0.0100	"						
Bromochloromethane	U			5.00E-3	"						
Bromodichloromethane	U			5.00E-3	"						
Bromoform	U	J		5.00E-3	"						
Bromomethane	U			0.0100	"						
2-Butanone	U			0.0250	"						
n-Butylbenzene	U			5.00E-3	"						
sec-Butylbenzene	U			5.00E-3	"						
tert-Butylbenzene	U	J		5.00E-3	"						
Carbon disulfide	U			5.00E-3	"						
Carbon tetrachloride	U			5.00E-3	"						
Chlorobenzene	U			5.00E-3	"						
Chloroethane	U			0.0100	"						
Chloroform	U			5.00E-3	"						
Chloromethane	U			0.0100	"						
2-Chlorotoluene	U			5.00E-3	"						
4-Chlorotoluene	U			5.00E-3	"						
Dibromochloromethane	U			5.00E-3	"						

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

Blank (B109064-BLK2) **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dibromo-3-chloropropane	U			5.00E-3	mg/L						
1,2-Dibromoethane (EDB)	U			5.00E-3	"						
Dibromomethane	U			5.00E-3	"						
1,2-Dichlorobenzene	U			5.00E-3	"						
1,3-Dichlorobenzene	U			5.00E-3	"						
1,4-Dichlorobenzene	U			5.00E-3	"						
1,1-Dichloroethane	U			5.00E-3	"						
1,2-Dichloroethane	U			5.00E-3	"						
1,1-Dichloroethene	U			5.00E-3	"						
cis-1,2-Dichloroethene	U			5.00E-3	"						
trans-1,2-Dichloroethene	U			5.00E-3	"						
1,2-Dichloropropane	U			5.00E-3	"						
1,3-Dichloropropane	U			5.00E-3	"						
2,2-Dichloropropane	U			5.00E-3	"						
1,1-Dichloropropene	U			5.00E-3	"						
cis-1,3-Dichloropropene	U			5.00E-3	"						
trans-1,3-Dichloropropene	U			5.00E-3	"						
Ethylbenzene	U			5.00E-3	"						
Hexachlorobutadiene	U			5.00E-3	"						
2-Hexanone	U			0.0100	"						
Vinyl chloride	U	J		0.0100	"						
Isopropylbenzene	U	J		5.00E-3	"						
p-Isopropyltoluene	U	J		5.00E-3	"						
Methylene chloride	U			5.00E-3	"						
4-Methyl-2-pentanone	U			0.0100	"						
Naphthalene	U	J		5.00E-3	"						
n-Propylbenzene	U			5.00E-3	"						
Styrene	U			5.00E-3	"						
1,1,2,2-Tetrachloroethane	U	J		5.00E-3	"						
1,1,1,2-Tetrachloroethane	U			5.00E-3	"						
Tetrachloroethene	U			5.00E-3	"						
Toluene	U			5.00E-3	"						
1,2,3-Trichlorobenzene	U			5.00E-3	"						

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RCRA, LCD, US EPA Region 5	Project: Blue Island Phenols	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Mike Beedle	Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

Blank (B109064-BLK2) **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	U			5.00E-3	mg/L						
1,1,2-Trichloroethane	U			5.00E-3	"						
1,1,1-Trichloroethane	U			5.00E-3	"						
Trichloroethene	U			5.00E-3	"						
1,2,3-Trichloropropane	U	J		5.00E-3	"						
1,3,5-Trimethylbenzene	U			5.00E-3	"						
1,2,4-Trimethylbenzene	U			5.00E-3	"						
m+p-Xylene	U			0.0100	"						
o-Xylene	U			5.00E-3	"						
Surrogate: Benzene-d6	*0.0077*				"	*1.000E-2*		*77.2*	*78-114*		
Surrogate: Toluene-d8	*0.0095*				"	*1.000E-2*		*95.4*	*85-115*		
Surrogate: 4-Bromofluorobenzene	*0.012*				"	*1.000E-2*		*117*	*79-109*		

Blank (B109064-BLK3) **Prepared & Analyzed: Sep-27-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acetone	U	J		0.0250	mg/L						
Acrolein	U			0.0250	"						
Acrylonitrile	U			0.0250	"						
Benzene	U			5.00E-3	"						
Bromobenzene	U			0.0100	"						
Bromochloromethane	U			5.00E-3	"						
Bromodichloromethane	U			5.00E-3	"						
Bromoform	U	J		5.00E-3	"						
Bromomethane	U			0.0100	"						
2-Butanone	U			0.0250	"						
n-Butylbenzene	U			5.00E-3	"						

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

Blank (B109064-BLK3) **Prepared & Analyzed: Sep-27-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
sec-Butylbenzene	U			5.00E-3	mg/L						
tert-Butylbenzene	U	J		5.00E-3	"						
Carbon disulfide	U			5.00E-3	"						
Carbon tetrachloride	U			5.00E-3	"						
Chlorobenzene	U			5.00E-3	"						
Chloroethane	U			0.0100	"						
Chloroform	U			5.00E-3	"						
Chloromethane	U			0.0100	"						
2-Chlorotoluene	U			5.00E-3	"						
4-Chlorotoluene	U			5.00E-3	"						
Dibromochloromethane	U			5.00E-3	"						
1,2-Dibromo-3-chloropropane	U			5.00E-3	"						
1,2-Dibromoethane (EDB)	U			5.00E-3	"						
Dibromomethane	U			5.00E-3	"						
1,2-Dichlorobenzene	U			5.00E-3	"						
1,3-Dichlorobenzene	U			5.00E-3	"						
1,4-Dichlorobenzene	U			5.00E-3	"						
1,1-Dichloroethane	U			5.00E-3	"						
1,2-Dichloroethane	U			5.00E-3	"						
1,1-Dichloroethene	U			5.00E-3	"						
cis-1,2-Dichloroethene	U			5.00E-3	"						
trans-1,2-Dichloroethene	U			5.00E-3	"						
1,2-Dichloropropane	U			5.00E-3	"						
1,3-Dichloropropane	U			5.00E-3	"						
2,2-Dichloropropane	U			5.00E-3	"						
1,1-Dichloropropene	U			5.00E-3	"						
cis-1,3-Dichloropropene	U			5.00E-3	"						
trans-1,3-Dichloropropene	U			5.00E-3	"						
Ethylbenzene	U			5.00E-3	"						
Hexachlorobutadiene	U			5.00E-3	"						
2-Hexanone	U			0.0100	"						
Vinyl chloride	U			0.0100	"						
Isopropylbenzene	U	J		5.00E-3	"						

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

Blank (B109064-BLK3) **Prepared & Analyzed: Sep-27-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
p-Isopropyltoluene	U	J		5.00E-3	mg/L						
Methylene chloride	U			5.00E-3	"						
4-Methyl-2-pentanone	U			0.0100	"						
Naphthalene	U	J		5.00E-3	"						
n-Propylbenzene	U			5.00E-3	"						
Styrene	U			5.00E-3	"						
1,1,2,2-Tetrachloroethane	U	J		5.00E-3	"						
1,1,1,2-Tetrachloroethane	U			5.00E-3	"						
Tetrachloroethene	U			5.00E-3	"						
Toluene	U			5.00E-3	"						
1,2,3-Trichlorobenzene	U			5.00E-3	"						
1,2,4-Trichlorobenzene	U			5.00E-3	"						
1,1,2-Trichloroethane	U			5.00E-3	"						
1,1,1-Trichloroethane	U			5.00E-3	"						
Trichloroethene	U			5.00E-3	"						
1,2,3-Trichloropropane	U	J		5.00E-3	"						
1,3,5-Trimethylbenzene	U			5.00E-3	"						
1,2,4-Trimethylbenzene	U			5.00E-3	"						
m+p-Xylene	U			0.0100	"						
o-Xylene	U			5.00E-3	"						
Surrogate: Benzene-d6	*0.0076*				"	*1.000E-2*		*75.8*	*78-114*		
Surrogate: Toluene-d8	*0.0092*				"	*1.000E-2*		*91.7*	*85-115*		
Surrogate: 4-Bromofluorobenzene	*0.012*				"	*1.000E-2*		*116*	*79-109*		

LCS (B109064-BS1) **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

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Certificate # L2280 Testing

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

LCS (B109064-BS1) **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acetone	**0.220**	J		0.0250	mg/L	0.2500		87.9	137-200		
Acrolein	**0.243**			0.0250	"	0.2500		97.1	91-122		
Acrylonitrile	**0.217**			0.0250	"	0.2500		86.6	106-109		
Benzene	**0.0455**			5.00E-3	"	5.000E-2		91.0	34-167		
Bromobenzene	**0.0493**			0.0100	"	5.000E-2		98.6	44-167		
Bromochloromethane	**0.0478**			5.00E-3	"	5.000E-2		95.7	37-175		
Bromodichloromethane	**0.0449**			5.00E-3	"	5.000E-2		89.8	36-153		
Bromoform	**0.0537**	J		5.00E-3	"	5.000E-2		107	17-157		
Bromomethane	**0.0421**			0.0100	"	5.000E-2		84.1	106-116		
2-Butanone	**0.208**			0.0250	"	0.2500		83.1	105-119		
n-Butylbenzene	**0.0442**			5.00E-3	"	5.000E-2		88.4	39-157		
sec-Butylbenzene	**0.0477**			5.00E-3	"	5.000E-2		95.4	43-164		
tert-Butylbenzene	**0.0502**	J		5.00E-3	"	5.000E-2		100	45-162		
Carbon disulfide	**0.0447**			5.00E-3	"	5.000E-2		89.5	107-117		
Carbon tetrachloride	**0.0421**			5.00E-3	"	5.000E-2		84.2	9-173		
Chlorobenzene	**0.0494**			5.00E-3	"	5.000E-2		98.8	44-167		
Chloroethane	**0.0505**			0.0100	"	5.000E-2		101	107-175		
Chloroform	**0.0455**			5.00E-3	"	5.000E-2		91.0	46-157		
Chloromethane	**0.0483**			0.0100	"	5.000E-2		96.6	70-76		
2-Chlorotoluene	**0.0490**			5.00E-3	"	5.000E-2		98.1	35-173		
4-Chlorotoluene	**0.0482**			5.00E-3	"	5.000E-2		96.4	43-164		
Dibromochloromethane	**0.0507**			5.00E-3	"	5.000E-2		101	24-168		
1,2-Dibromo-3-chloropropane	**0.0430**			5.00E-3	"	5.000E-2		85.9	11-188		
1,2-Dibromoethane (EDB)	**0.0481**			5.00E-3	"	5.000E-2		96.2	109-116		
Dibromomethane	**0.0470**			5.00E-3	"	5.000E-2		94.1	42-168		
1,2-Dichlorobenzene	**0.0432**			5.00E-3	"	5.000E-2		86.5	47-163		
1,3-Dichlorobenzene	**0.0477**			5.00E-3	"	5.000E-2		95.5	42-173		
1,4-Dichlorobenzene	**0.0456**			5.00E-3	"	5.000E-2		91.2	41-170		
1,1-Dichloroethane	**0.0458**			5.00E-3	"	5.000E-2		91.5	35-177		
1,2-Dichloroethane	**0.0453**			5.00E-3	"	5.000E-2		90.5	20-188		
1,1-Dichloroethene	**0.0459**			5.00E-3	"	5.000E-2		91.8	4-173		
cis-1,2-Dichloroethene	**0.0444**			5.00E-3	"	5.000E-2		88.9	32-164		
trans-1,2-Dichloroethene	**0.0444**			5.00E-3	"	5.000E-2		88.8	35-179		

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Certificate # L2280 Testing

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

LCS (B109064-BS1) **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichloropropane	**0.0467**			5.00E-3	mg/L	5.000E-2		93.4	44-156		
1,3-Dichloropropane	**0.0480**			5.00E-3	"	5.000E-2		96.0	42-163		
2,2-Dichloropropane	**0.0450**			5.00E-3	"	5.000E-2		90.1	12-158		
1,1-Dichloropropene	**0.0442**			5.00E-3	"	5.000E-2		88.4	37-157		
cis-1,3-Dichloropropene	**0.0451**			5.00E-3	"	5.000E-2		90.2	24-156		
trans-1,3-Dichloropropene	**0.0466**			5.00E-3	"	5.000E-2		93.3	12-160		
Ethylbenzene	**0.0499**			5.00E-3	"	5.000E-2		99.7	43-163		
Hexachlorobutadiene	**0.0419**			5.00E-3	"	5.000E-2		83.9	21-166		
2-Hexanone	**0.0878**			0.0100	"	0.1000		87.8	116-145		
Vinyl chloride	**0.0596**			0.0100	"	5.000E-2		119	0-200		
Isopropylbenzene	**0.0506**	J		5.00E-3	"	5.000E-2		101	44-163		
p-Isopropyltoluene	**0.0490**	J		5.00E-3	"	5.000E-2		98.1	46-164		
Methylene chloride	**0.0455**			5.00E-3	"	5.000E-2		90.9	44-174		
4-Methyl-2-pentanone	**0.0891**			0.0100	"	0.1000		89.1	108-119		
Naphthalene	**0.0426**	J		5.00E-3	"	5.000E-2		85.2	27-161		
n-Propylbenzene	**0.0507**			5.00E-3	"	5.000E-2		101	55-156		
Styrene	**0.0522**			5.00E-3	"	5.000E-2		104	43-157		
1,1,2,2-Tetrachloroethane	**0.0498**	J		5.00E-3	"	5.000E-2		99.7	20-215		
1,1,1,2-Tetrachloroethane	**0.0510**			5.00E-3	"	5.000E-2		102	28-176		
Tetrachloroethene	**0.0458**			5.00E-3	"	5.000E-2		91.5	45-165		
Toluene	**0.0462**			5.00E-3	"	5.000E-2		92.4	51-151		
1,2,3-Trichlorobenzene	**0.0428**			5.00E-3	"	5.000E-2		85.7	37-159		
1,2,4-Trichlorobenzene	**0.0455**			5.00E-3	"	5.000E-2		91.0	36-154		
1,1,2-Trichloroethane	**0.0483**			5.00E-3	"	5.000E-2		96.6	27-174		
1,1,1-Trichloroethane	**0.0456**			5.00E-3	"	5.000E-2		91.1	18-180		
Trichloroethene	**0.0452**			5.00E-3	"	5.000E-2		90.4	44-159		
1,2,3-Trichloropropane	**0.0486**	J		5.00E-3	"	5.000E-2		97.2	37-181		
1,3,5-Trimethylbenzene	**0.0495**			5.00E-3	"	5.000E-2		99.1	37-171		
1,2,4-Trimethylbenzene	**0.0494**			5.00E-3	"	5.000E-2		98.7	39-171		
m+p-Xylene	**0.102**			0.0100	"	0.1000		102	45-163		
o-Xylene	**0.0509**			5.00E-3	"	5.000E-2		102	44-163		

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Certificate # L2280 Testing

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

LCS (B109064-BS1) **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*0.0085*				*mg/L*	*1.000E-2*		*84.9*	*78-114*		
Surrogate: Toluene-d8	*0.0099*				*"*	*1.000E-2*		*99.1*	*85-115*		
Surrogate: 4-Bromofluorobenzene	*0.011*				*"*	*1.000E-2*		*113*	*79-109*		

LCS (B109064-BS2) **Prepared & Analyzed: Sep-27-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acetone	**0.242**	J		0.0250	mg/L	0.2500		96.7	137-200		
Acrolein	**0.204**			0.0250	"	0.2500		81.5	91-122		
Acrylonitrile	**0.250**			0.0250	"	0.2500		100	106-109		
Benzene	**0.0522**			5.00E-3	"	5.000E-2		104	34-167		
Bromobenzene	**0.0526**			0.0100	"	5.000E-2		105	44-167		
Bromochloromethane	**0.0505**			5.00E-3	"	5.000E-2		101	37-175		
Bromodichloromethane	**0.0444**			5.00E-3	"	5.000E-2		88.8	36-153		
Bromoform	**0.0501**	J		5.00E-3	"	5.000E-2		100	17-157		
Bromomethane	**0.0223**			0.0100	"	5.000E-2		44.7	106-116		
2-Butanone	**0.252**			0.0250	"	0.2500		101	105-119		
n-Butylbenzene	**0.0511**			5.00E-3	"	5.000E-2		102	39-157		
sec-Butylbenzene	**0.0555**			5.00E-3	"	5.000E-2		111	43-164		
tert-Butylbenzene	**0.0587**	J		5.00E-3	"	5.000E-2		117	45-162		
Carbon disulfide	**0.0457**			5.00E-3	"	5.000E-2		91.5	107-117		
Carbon tetrachloride	**0.0458**			5.00E-3	"	5.000E-2		91.5	9-173		
Chlorobenzene	**0.0561**			5.00E-3	"	5.000E-2		112	44-167		
Chloroethane	**0.0361**			0.0100	"	5.000E-2		72.2	107-175		
Chloroform	**0.0478**			5.00E-3	"	5.000E-2		95.6	46-157		
Chloromethane	**0.0491**			0.0100	"	5.000E-2		98.3	70-76		
2-Chlorotoluene	**0.0561**			5.00E-3	"	5.000E-2		112	35-173		
4-Chlorotoluene	**0.0546**			5.00E-3	"	5.000E-2		109	43-164		
Dibromochloromethane	**0.0467**			5.00E-3	"	5.000E-2		93.4	24-168		

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

LCS (B109064-BS2) **Prepared & Analyzed: Sep-27-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dibromo-3-chloropropane	**0.0443**			5.00E-3	mg/L	5.000E-2		88.6	11-188		
1,2-Dibromoethane (EDB)	**0.0532**			5.00E-3	"	5.000E-2		106	109-116		
Dibromomethane	**0.0550**			5.00E-3	"	5.000E-2		110	42-168		
1,2-Dichlorobenzene	**0.0490**			5.00E-3	"	5.000E-2		98.0	47-163		
1,3-Dichlorobenzene	**0.0524**			5.00E-3	"	5.000E-2		105	42-173		
1,4-Dichlorobenzene	**0.0499**			5.00E-3	"	5.000E-2		99.7	41-170		
1,1-Dichloroethane	**0.0500**			5.00E-3	"	5.000E-2		99.9	35-177		
1,2-Dichloroethane	**0.0497**			5.00E-3	"	5.000E-2		99.3	20-188		
1,1-Dichloroethene	**0.0506**			5.00E-3	"	5.000E-2		101	4-173		
cis-1,2-Dichloroethene	**0.0513**			5.00E-3	"	5.000E-2		103	32-164		
trans-1,2-Dichloroethene	**0.0502**			5.00E-3	"	5.000E-2		100	35-179		
1,2-Dichloropropane	**0.0542**			5.00E-3	"	5.000E-2		108	44-156		
1,3-Dichloropropane	**0.0530**			5.00E-3	"	5.000E-2		106	42-163		
2,2-Dichloropropane	**0.0529**			5.00E-3	"	5.000E-2		106	12-158		
1,1-Dichloropropene	**0.0519**			5.00E-3	"	5.000E-2		104	37-157		
cis-1,3-Dichloropropene	**0.0514**			5.00E-3	"	5.000E-2		103	24-156		
trans-1,3-Dichloropropene	**0.0521**			5.00E-3	"	5.000E-2		104	12-160		
Ethylbenzene	**0.0575**			5.00E-3	"	5.000E-2		115	43-163		
Hexachlorobutadiene	**0.0465**			5.00E-3	"	5.000E-2		93.0	21-166		
2-Hexanone	**0.0986**			0.0100	"	0.1000		98.6	116-145		
Vinyl chloride	**0.0160**			0.0100	"	5.000E-2		32.0	0-200		
Isopropylbenzene	**0.0606**	J		5.00E-3	"	5.000E-2		121	44-163		
p-Isopropyltoluene	**0.0566**	J		5.00E-3	"	5.000E-2		113	46-164		
Methylene chloride	**0.0474**			5.00E-3	"	5.000E-2		94.7	44-174		
4-Methyl-2-pentanone	**0.0994**			0.0100	"	0.1000		99.4	108-119		
Naphthalene	**0.0443**	J		5.00E-3	"	5.000E-2		88.5	27-161		
n-Propylbenzene	**0.0595**			5.00E-3	"	5.000E-2		119	55-156		
Styrene	**0.0594**			5.00E-3	"	5.000E-2		119	43-157		
1,1,2,2-Tetrachloroethane	**0.0547**	J		5.00E-3	"	5.000E-2		109	20-215		
1,1,1,2-Tetrachloroethane	**0.0529**			5.00E-3	"	5.000E-2		106	28-176		
Tetrachloroethene	**0.0510**			5.00E-3	"	5.000E-2		102	45-165		
Toluene	**0.0518**			5.00E-3	"	5.000E-2		104	51-151		
1,2,3-Trichlorobenzene	**0.0443**			5.00E-3	"	5.000E-2		88.6	37-159		

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

LCS (B109064-BS2) **Prepared & Analyzed: Sep-27-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	**0.0488**			5.00E-3	mg/L	5.000E-2		97.7	36-154		
1,1,2-Trichloroethane	**0.0538**			5.00E-3	"	5.000E-2		108	27-174		
1,1,1-Trichloroethane	**0.0480**			5.00E-3	"	5.000E-2		96.0	18-180		
Trichloroethene	**0.0513**			5.00E-3	"	5.000E-2		103	44-159		
1,2,3-Trichloropropane	**0.0534**	J		5.00E-3	"	5.000E-2		107	37-181		
1,3,5-Trimethylbenzene	**0.0544**			5.00E-3	"	5.000E-2		109	37-171		
1,2,4-Trimethylbenzene	**0.0558**			5.00E-3	"	5.000E-2		112	39-171		
m+p-Xylene	**0.115**			0.0100	"	0.1000		115	45-163		
o-Xylene	**0.0573**			5.00E-3	"	5.000E-2		115	44-163		
Surrogate: Benzene-d6	*0.0088*				"	*1.000E-2*		*87.9*	*78-114*		
Surrogate: Toluene-d8	*0.0097*				"	*1.000E-2*		*96.7*	*85-115*		
Surrogate: 4-Bromofluorobenzene	*0.010*				"	*1.000E-2*		*104*	*79-109*		

LCS (B109064-BS3) **Prepared & Analyzed: Sep-27-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acetone	**0.260**	J		0.0250	mg/L	0.2500		104	137-200		
Acrolein	**0.236**			0.0250	"	0.2500		94.5	91-122		
Acrylonitrile	**0.261**			0.0250	"	0.2500		104	106-109		
Benzene	**0.0533**			5.00E-3	"	5.000E-2		107	34-167		
Bromobenzene	**0.0569**			0.0100	"	5.000E-2		114	44-167		
Bromochloromethane	**0.0523**			5.00E-3	"	5.000E-2		105	37-175		
Bromodichloromethane	**0.0468**			5.00E-3	"	5.000E-2		93.6	36-153		
Bromoform	**0.0520**	J		5.00E-3	"	5.000E-2		104	17-157		
Bromomethane	**0.0453**			0.0100	"	5.000E-2		90.6	106-116		
2-Butanone	**0.273**			0.0250	"	0.2500		109	105-119		
n-Butylbenzene	**0.0519**			5.00E-3	"	5.000E-2		104	39-157		

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RCRA, LCD, US EPA Region 5	Project: Blue Island Phenols	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Mike Beedle	Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

LCS (B109064-BS3) **Prepared & Analyzed: Sep-27-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
sec-Butylbenzene	**0.0579**			5.00E-3	mg/L	5.000E-2		116	43-164		
tert-Butylbenzene	**0.0607**	J		5.00E-3	"	5.000E-2		121	45-162		
Carbon disulfide	**0.0482**			5.00E-3	"	5.000E-2		96.4	107-117		
Carbon tetrachloride	**0.0450**			5.00E-3	"	5.000E-2		90.0	9-173		
Chlorobenzene	**0.0585**			5.00E-3	"	5.000E-2		117	44-167		
Chloroethane	**0.0501**			0.0100	"	5.000E-2		100	107-175		
Chloroform	**0.0513**			5.00E-3	"	5.000E-2		103	46-157		
Chloromethane	**0.0451**			0.0100	"	5.000E-2		90.2	70-76		
2-Chlorotoluene	**0.0582**			5.00E-3	"	5.000E-2		116	35-173		
4-Chlorotoluene	**0.0564**			5.00E-3	"	5.000E-2		113	43-164		
Dibromochloromethane	**0.0469**			5.00E-3	"	5.000E-2		93.9	24-168		
1,2-Dibromo-3-chloropropane	**0.0447**			5.00E-3	"	5.000E-2		89.4	11-188		
1,2-Dibromoethane (EDB)	**0.0534**			5.00E-3	"	5.000E-2		107	109-116		
Dibromomethane	**0.0543**			5.00E-3	"	5.000E-2		109	42-168		
1,2-Dichlorobenzene	**0.0498**			5.00E-3	"	5.000E-2		99.6	47-163		
1,3-Dichlorobenzene	**0.0545**			5.00E-3	"	5.000E-2		109	42-173		
1,4-Dichlorobenzene	**0.0532**			5.00E-3	"	5.000E-2		106	41-170		
1,1-Dichloroethane	**0.0517**			5.00E-3	"	5.000E-2		103	35-177		
1,2-Dichloroethane	**0.0501**			5.00E-3	"	5.000E-2		100	20-188		
1,1-Dichloroethene	**0.0532**			5.00E-3	"	5.000E-2		106	4-173		
cis-1,2-Dichloroethene	**0.0524**			5.00E-3	"	5.000E-2		105	32-164		
trans-1,2-Dichloroethene	**0.0511**			5.00E-3	"	5.000E-2		102	35-179		
1,2-Dichloropropane	**0.0556**			5.00E-3	"	5.000E-2		111	44-156		
1,3-Dichloropropane	**0.0542**			5.00E-3	"	5.000E-2		108	42-163		
2,2-Dichloropropane	**0.0519**			5.00E-3	"	5.000E-2		104	12-158		
1,1-Dichloropropene	**0.0537**			5.00E-3	"	5.000E-2		107	37-157		
cis-1,3-Dichloropropene	**0.0510**			5.00E-3	"	5.000E-2		102	24-156		
trans-1,3-Dichloropropene	**0.0510**			5.00E-3	"	5.000E-2		102	12-160		
Ethylbenzene	**0.0610**			5.00E-3	"	5.000E-2		122	43-163		
Hexachlorobutadiene	**0.0471**			5.00E-3	"	5.000E-2		94.2	21-166		
2-Hexanone	**0.109**			0.0100	"	0.1000		109	116-145		
Vinyl chloride	**0.0534**			0.0100	"	5.000E-2		107	0-200		
Isopropylbenzene	**0.0636**	J		5.00E-3	"	5.000E-2		127	44-163		

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LABORATORY ACCREDITATION BUREAU
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Certificate # L2280 Testing

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

LCS (B109064-BS3) **Prepared & Analyzed: Sep-27-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
p-Isopropyltoluene	**0.0583**	J		5.00E-3	mg/L	5.000E-2		117	46-164		
Methylene chloride	**0.0505**			5.00E-3	"	5.000E-2		101	44-174		
4-Methyl-2-pentanone	**0.110**			0.0100	"	0.1000		110	108-119		
Naphthalene	**0.0504**	J		5.00E-3	"	5.000E-2		101	27-161		
n-Propylbenzene	**0.0617**			5.00E-3	"	5.000E-2		123	55-156		
Styrene	**0.0634**			5.00E-3	"	5.000E-2		127	43-157		
1,1,2,2-Tetrachloroethane	**0.0586**	J		5.00E-3	"	5.000E-2		117	20-215		
1,1,1,2-Tetrachloroethane	**0.0558**			5.00E-3	"	5.000E-2		112	28-176		
Tetrachloroethene	**0.0530**			5.00E-3	"	5.000E-2		106	45-165		
Toluene	**0.0544**			5.00E-3	"	5.000E-2		109	51-151		
1,2,3-Trichlorobenzene	**0.0466**			5.00E-3	"	5.000E-2		93.3	37-159		
1,2,4-Trichlorobenzene	**0.0512**			5.00E-3	"	5.000E-2		102	36-154		
1,1,2-Trichloroethane	**0.0557**			5.00E-3	"	5.000E-2		111	27-174		
1,1,1-Trichloroethane	**0.0497**			5.00E-3	"	5.000E-2		99.4	18-180		
Trichloroethene	**0.0533**			5.00E-3	"	5.000E-2		107	44-159		
1,2,3-Trichloropropane	**0.0583**	J		5.00E-3	"	5.000E-2		117	37-181		
1,3,5-Trimethylbenzene	**0.0594**			5.00E-3	"	5.000E-2		119	37-171		
1,2,4-Trimethylbenzene	**0.0580**			5.00E-3	"	5.000E-2		116	39-171		
m+p-Xylene	**0.122**			0.0100	"	0.1000		122	45-163		
o-Xylene	**0.0604**			5.00E-3	"	5.000E-2		121	44-163		
Surrogate: Benzene-d6	*0.0087*				"	*1.000E-2*		*86.9*	*78-114*		
Surrogate: Toluene-d8	*0.0097*				"	*1.000E-2*		*97.4*	*85-115*		
Surrogate: 4-Bromofluorobenzene	*0.011*				"	*1.000E-2*		*109*	*79-109*		

LCS Dup (B109064-BSD1) **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

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Certificate # L2280 Testing

RCRA, LCD, US EPA Region 5	Project: Blue Island Phenols	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Mike Beedle	Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

LCS Dup (B109064-BSD1) **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acetone	**0.359**	J		0.0250	mg/L	0.2500		144	137-200	48.2	200
Acrolein	**0.295**			0.0250	"	0.2500		118	91-122	19.6	200
Acrylonitrile	**0.279**			0.0250	"	0.2500		111	106-109	25.1	200
Benzene	**0.0563**			5.00E-3	"	5.000E-2		113	34-167	21.2	200
Bromobenzene	**0.0562**			0.0100	"	5.000E-2		112	44-167	13.1	200
Bromochloromethane	**0.0539**			5.00E-3	"	5.000E-2		108	37-175	11.9	200
Bromodichloromethane	**0.0483**			5.00E-3	"	5.000E-2		96.5	36-153	7.21	200
Bromoform	**0.0501**	J		5.00E-3	"	5.000E-2		100	17-157	6.87	200
Bromomethane	**0.0562**			0.0100	"	5.000E-2		112	106-116	28.8	200
2-Butanone	**0.298**			0.0250	"	0.2500		119	105-119	35.8	200
n-Butylbenzene	**0.0509**			5.00E-3	"	5.000E-2		102	39-157	14.0	200
sec-Butylbenzene	**0.0547**			5.00E-3	"	5.000E-2		109	43-164	13.6	200
tert-Butylbenzene	**0.0597**	J		5.00E-3	"	5.000E-2		119	45-162	17.3	200
Carbon disulfide	**0.0516**			5.00E-3	"	5.000E-2		103	107-117	14.3	200
Carbon tetrachloride	**0.0479**			5.00E-3	"	5.000E-2		95.8	9-173	12.9	200
Chlorobenzene	**0.0575**			5.00E-3	"	5.000E-2		115	44-167	15.1	200
Chloroethane	**0.0594**			0.0100	"	5.000E-2		119	107-175	16.3	200
Chloroform	**0.0528**			5.00E-3	"	5.000E-2		106	46-157	14.8	200
Chloromethane	**0.0546**			0.0100	"	5.000E-2		109	70-76	12.4	200
2-Chlorotoluene	0.0574			5.00E-3	"	5.000E-2		115	35-173	15.6	200
4-Chlorotoluene	**0.0565**			5.00E-3	"	5.000E-2		113	43-164	15.9	200
Dibromochloromethane	**0.0489**			5.00E-3	"	5.000E-2		97.8	24-168	3.57	200
1,2-Dibromo-3-chloropropane	**0.0500**			5.00E-3	"	5.000E-2		100	11-188	15.2	200
1,2-Dibromoethane (EDB)	**0.0573**			5.00E-3	"	5.000E-2		115	109-116	17.5	200
Dibromomethane	**0.0557**			5.00E-3	"	5.000E-2		111	42-168	16.9	200
1,2-Dichlorobenzene	**0.0503**			5.00E-3	"	5.000E-2		101	47-163	15.1	200
1,3-Dichlorobenzene	**0.0535**			5.00E-3	"	5.000E-2		107	42-173	11.3	200
1,4-Dichlorobenzene	**0.0522**			5.00E-3	"	5.000E-2		104	41-170	13.4	200
1,1-Dichloroethane	**0.0560**			5.00E-3	"	5.000E-2		112	35-177	20.2	200
1,2-Dichloroethane	**0.0516**			5.00E-3	"	5.000E-2		103	20-188	13.0	200
1,1-Dichloroethene	**0.0558**			5.00E-3	"	5.000E-2		112	4-173	19.5	200
cis-1,2-Dichloroethene	**0.0578**			5.00E-3	"	5.000E-2		116	32-164	26.0	200
trans-1,2-Dichloroethene	**0.0557**			5.00E-3	"	5.000E-2		111	35-179	22.6	200

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

LCS Dup (B109064-BSD1) **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichloropropane	**0.0594**			5.00E-3	mg/L	5.000E-2		119	44-156	23.9	200
1,3-Dichloropropane	**0.0574**			5.00E-3	"	5.000E-2		115	42-163	17.9	200
2,2-Dichloropropane	**0.0528**			5.00E-3	"	5.000E-2		106	12-158	16.0	200
1,1-Dichloropropene	**0.0568**			5.00E-3	"	5.000E-2		114	37-157	24.9	200
cis-1,3-Dichloropropene	**0.0532**			5.00E-3	"	5.000E-2		106	24-156	16.5	200
trans-1,3-Dichloropropene	**0.0543**			5.00E-3	"	5.000E-2		109	12-160	15.3	200
Ethylbenzene	**0.0604**			5.00E-3	"	5.000E-2		121	43-163	19.2	200
Hexachlorobutadiene	**0.0463**			5.00E-3	"	5.000E-2		92.6	21-166	9.88	200
2-Hexanone	**0.114**			0.0100	"	0.1000		114	116-145	26.1	200
Vinyl chloride	**0.0657**			0.0100	"	5.000E-2		131	0-200	9.64	200
Isopropylbenzene	**0.0695**	J		5.00E-3	"	5.000E-2		139	44-163	31.5	200
p-Isopropyltoluene	**0.0558**	J		5.00E-3	"	5.000E-2		112	46-164	13.0	200
Methylene chloride	**0.0529**			5.00E-3	"	5.000E-2		106	44-174	15.1	200
4-Methyl-2-pentanone	**0.115**			0.0100	"	0.1000		115	108-119	25.3	200
Naphthalene	**0.0560**	J		5.00E-3	"	5.000E-2		112	27-161	27.2	200
n-Propylbenzene	**0.0604**			5.00E-3	"	5.000E-2		121	55-156	17.5	200
Styrene	**0.0572**			5.00E-3	"	5.000E-2		114	43-157	9.05	200
1,1,2,2-Tetrachloroethane	**0.0570**	J		5.00E-3	"	5.000E-2		114	20-215	13.5	200
1,1,1,2-Tetrachloroethane	**0.0545**			5.00E-3	"	5.000E-2		109	28-176	6.69	200
Tetrachloroethene	**0.0548**			5.00E-3	"	5.000E-2		110	45-165	18.0	200
Toluene	**0.0583**			5.00E-3	"	5.000E-2		117	51-151	23.2	200
1,2,3-Trichlorobenzene	**0.0490**			5.00E-3	"	5.000E-2		98.0	37-159	13.5	200
1,2,4-Trichlorobenzene	**0.0537**			5.00E-3	"	5.000E-2		107	36-154	16.5	200
1,1,2-Trichloroethane	**0.0584**			5.00E-3	"	5.000E-2		117	27-174	19.0	200
1,1,1-Trichloroethane	**0.0533**			5.00E-3	"	5.000E-2		107	18-180	15.7	200
Trichloroethene	**0.0567**			5.00E-3	"	5.000E-2		113	44-159	22.6	200
1,2,3-Trichloropropane	**0.0576**	J		5.00E-3	"	5.000E-2		115	37-181	17.0	200
1,3,5-Trimethylbenzene	**0.0585**			5.00E-3	"	5.000E-2		117	37-171	16.6	200
1,2,4-Trimethylbenzene	**0.0573**			5.00E-3	"	5.000E-2		115	39-171	14.8	200
m+p-Xylene	**0.120**			0.0100	"	0.1000		120	45-163	16.1	200
o-Xylene	**0.0600**			5.00E-3	"	5.000E-2		120	44-163	16.6	200

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

LCS Dup (B109064-BSD1) **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*0.0095*				*mg/L*	*1.000E-2*		*94.7*	*78-114*		
Surrogate: Toluene-d8	*0.011*				*"*	*1.000E-2*		*105*	*85-115*		
Surrogate: 4-Bromofluorobenzene	*0.011*				*"*	*1.000E-2*		*109*	*79-109*		

LCS Dup (B109064-BSD2) **Prepared & Analyzed: Sep-27-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acetone	**0.280**	J		0.0250	mg/L	0.2500		112	137-200	14.8	200
Acrolein	**0.255**			0.0250	"	0.2500		102	91-122	22.2	200
Acrylonitrile	**0.271**			0.0250	"	0.2500		108	106-109	7.93	200
Benzene	**0.0514**			5.00E-3	"	5.000E-2		103	34-167	1.54	200
Bromobenzene	**0.0540**			0.0100	"	5.000E-2		108	44-167	2.48	200
Bromochloromethane	**0.0493**			5.00E-3	"	5.000E-2		98.6	37-175	2.46	200
Bromodichloromethane	**0.0410**			5.00E-3	"	5.000E-2		81.9	36-153	8.02	200
Bromoform	**0.0458**	J		5.00E-3	"	5.000E-2		91.7	17-157	8.93	200
Bromomethane	**0.0196**			0.0100	"	5.000E-2		39.1	106-116	13.2	200
2-Butanone	**0.293**			0.0250	"	0.2500		117	105-119	15.1	200
n-Butylbenzene	**0.0486**			5.00E-3	"	5.000E-2		97.1	39-157	5.04	200
sec-Butylbenzene	**0.0536**			5.00E-3	"	5.000E-2		107	43-164	3.60	200
tert-Butylbenzene	**0.0573**	J		5.00E-3	"	5.000E-2		115	45-162	2.53	200
Carbon disulfide	**0.0414**			5.00E-3	"	5.000E-2		82.7	107-117	10.0	200
Carbon tetrachloride	**0.0357**			5.00E-3	"	5.000E-2		71.4	9-173	24.7	200
Chlorobenzene	**0.0555**			5.00E-3	"	5.000E-2		111	44-167	0.968	200
Chloroethane	**0.0365**			0.0100	"	5.000E-2		73.0	107-175	1.15	200
Chloroform	**0.0497**			5.00E-3	"	5.000E-2		99.4	46-157	3.94	200
Chloromethane	**0.0525**			0.0100	"	5.000E-2		105	70-76	6.67	200
2-Chlorotoluene	**0.0562**			5.00E-3	"	5.000E-2		112	35-173	0.118	200
4-Chlorotoluene	**0.0541**			5.00E-3	"	5.000E-2		108	43-164	0.982	200
Dibromochloromethane	**0.0381**			5.00E-3	"	5.000E-2		76.2	24-168	20.3	200

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Certificate # L2280 Testing

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

LCS Dup (B109064-BSD2) **Prepared & Analyzed: Sep-27-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dibromo-3-chloropropane	**0.0437**			5.00E-3	mg/L	5.000E-2		87.4	11-188	1.37	200
1,2-Dibromoethane (EDB)	**0.0512**			5.00E-3	"	5.000E-2		102	109-116	3.76	200
Dibromomethane	**0.0521**			5.00E-3	"	5.000E-2		104	42-168	5.40	200
1,2-Dichlorobenzene	**0.0489**			5.00E-3	"	5.000E-2		97.8	47-163	0.257	200
1,3-Dichlorobenzene	**0.0515**			5.00E-3	"	5.000E-2		103	42-173	1.72	200
1,4-Dichlorobenzene	**0.0489**			5.00E-3	"	5.000E-2		97.8	41-170	1.94	200
1,1-Dichloroethane	**0.0503**			5.00E-3	"	5.000E-2		101	35-177	0.722	200
1,2-Dichloroethane	**0.0515**			5.00E-3	"	5.000E-2		103	20-188	3.62	200
1,1-Dichloroethene	**0.0500**			5.00E-3	"	5.000E-2		100	4-173	1.22	200
cis-1,2-Dichloroethene	**0.0523**			5.00E-3	"	5.000E-2		105	32-164	2.03	200
trans-1,2-Dichloroethene	**0.0497**			5.00E-3	"	5.000E-2		99.4	35-179	1.07	200
1,2-Dichloropropane	**0.0536**			5.00E-3	"	5.000E-2		107	44-156	1.17	200
1,3-Dichloropropane	**0.0535**			5.00E-3	"	5.000E-2		107	42-163	0.939	200
2,2-Dichloropropane	**0.0456**			5.00E-3	"	5.000E-2		91.2	12-158	14.8	200
1,1-Dichloropropene	**0.0519**			5.00E-3	"	5.000E-2		104	37-157	0.104	200
cis-1,3-Dichloropropene	**0.0442**			5.00E-3	"	5.000E-2		88.3	24-156	15.2	200
trans-1,3-Dichloropropene	**0.0433**			5.00E-3	"	5.000E-2		86.6	12-160	18.6	200
Ethylbenzene	**0.0580**			5.00E-3	"	5.000E-2		116	43-163	0.814	200
Hexachlorobutadiene	**0.0417**			5.00E-3	"	5.000E-2		83.5	21-166	10.8	200
2-Hexanone	**0.112**			0.0100	"	0.1000		112	116-145	12.4	200
Vinyl chloride	**0.0170**			0.0100	"	5.000E-2		34.0	0-200	6.09	200
Isopropylbenzene	**0.0655**	J		5.00E-3	"	5.000E-2		131	44-163	7.75	200
p-Isopropyltoluene	**0.0533**	J		5.00E-3	"	5.000E-2		107	46-164	5.91	200
Methylene chloride	**0.0480**			5.00E-3	"	5.000E-2		96.1	44-174	1.42	200
4-Methyl-2-pentanone	**0.112**			0.0100	"	0.1000		112	108-119	11.9	200
Naphthalene	**0.0472**	J		5.00E-3	"	5.000E-2		94.3	27-161	6.38	200
n-Propylbenzene	**0.0581**			5.00E-3	"	5.000E-2		116	55-156	2.39	200
Styrene	**0.0552**			5.00E-3	"	5.000E-2		110	43-157	7.44	200
1,1,2,2-Tetrachloroethane	**0.0589**	J		5.00E-3	"	5.000E-2		118	20-215	7.38	200
1,1,1,2-Tetrachloroethane	**0.0492**			5.00E-3	"	5.000E-2		98.3	28-176	7.27	200
Tetrachloroethene	**0.0497**			5.00E-3	"	5.000E-2		99.4	45-165	2.67	200
Toluene	**0.0516**			5.00E-3	"	5.000E-2		103	51-151	0.433	200
1,2,3-Trichlorobenzene	**0.0435**			5.00E-3	"	5.000E-2		87.0	37-159	1.75	200

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Certificate # L2280 Testing

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

LCS Dup (B109064-BSD2) **Prepared & Analyzed: Sep-27-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	**0.0450**			5.00E-3	mg/L	5.000E-2		90.1	36-154	8.08	200
1,1,2-Trichloroethane	**0.0540**			5.00E-3	"	5.000E-2		108	27-174	0.323	200
1,1,1-Trichloroethane	**0.0472**			5.00E-3	"	5.000E-2		94.4	18-180	1.66	200
Trichloroethene	**0.0507**			5.00E-3	"	5.000E-2		101	44-159	1.15	200
1,2,3-Trichloropropane	**0.0590**	J		5.00E-3	"	5.000E-2		118	37-181	10.0	200
1,3,5-Trimethylbenzene	**0.0561**			5.00E-3	"	5.000E-2		112	37-171	3.10	200
1,2,4-Trimethylbenzene	**0.0549**			5.00E-3	"	5.000E-2		110	39-171	1.61	200
m+p-Xylene	**0.116**			0.0100	"	0.1000		116	45-163	0.848	200
o-Xylene	**0.0588**			5.00E-3	"	5.000E-2		118	44-163	2.56	200
Surrogate: Benzene-d6	*0.0082*				"	*1.000E-2*		*81.7*	*78-114*		
Surrogate: Toluene-d8	*0.0094*				"	*1.000E-2*		*94.2*	*85-115*		
Surrogate: 4-Bromofluorobenzene	*0.011*				"	*1.000E-2*		*106*	*79-109*		

LCS Dup (B109064-BSD3) **Prepared & Analyzed: Sep-27-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acetone	**0.287**	J		0.0250	mg/L	0.2500		115	137-200	9.80	200
Acrolein	**0.255**			0.0250	"	0.2500		102	91-122	7.48	200
Acrylonitrile	**0.269**			0.0250	"	0.2500		107	106-109	2.80	200
Benzene	**0.0548**			5.00E-3	"	5.000E-2		110	34-167	2.72	200
Bromobenzene	**0.0562**			0.0100	"	5.000E-2		112	44-167	1.25	200
Bromochloromethane	**0.0505**			5.00E-3	"	5.000E-2		101	37-175	3.62	200
Bromodichloromethane	**0.0458**			5.00E-3	"	5.000E-2		91.5	36-153	2.23	200
Bromoform	**0.0492**	J		5.00E-3	"	5.000E-2		98.3	17-157	5.59	200
Bromomethane	**0.0475**			0.0100	"	5.000E-2		94.9	106-116	4.63	200
2-Butanone	**0.289**			0.0250	"	0.2500		115	105-119	5.72	200
n-Butylbenzene	**0.0526**			5.00E-3	"	5.000E-2		105	39-157	1.33	200

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

LCS Dup (B109064-BSD3) **Prepared & Analyzed: Sep-27-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
sec-Butylbenzene	**0.0564**			5.00E-3	mg/L	5.000E-2		113	43-164	2.52	200
tert-Butylbenzene	**0.0608**	J		5.00E-3	"	5.000E-2		122	45-162	0.128	200
Carbon disulfide	**0.0465**			5.00E-3	"	5.000E-2		93.1	107-117	3.53	200
Carbon tetrachloride	**0.0400**			5.00E-3	"	5.000E-2		80.1	9-173	11.6	200
Chlorobenzene	**0.0587**			5.00E-3	"	5.000E-2		117	44-167	0.205	200
Chloroethane	**0.0531**			0.0100	"	5.000E-2		106	107-175	5.93	200
Chloroform	**0.0524**			5.00E-3	"	5.000E-2		105	46-157	2.15	200
Chloromethane	**0.0476**			0.0100	"	5.000E-2		95.2	70-76	5.48	200
2-Chlorotoluene	**0.0589**			5.00E-3	"	5.000E-2		118	35-173	1.12	200
4-Chlorotoluene	**0.0569**			5.00E-3	"	5.000E-2		114	43-164	0.808	200
Dibromochloromethane	**0.0422**			5.00E-3	"	5.000E-2		84.5	24-168	10.6	200
1,2-Dibromo-3-chloropropane	**0.0464**			5.00E-3	"	5.000E-2		92.7	11-188	3.64	200
1,2-Dibromoethane (EDB)	**0.0520**			5.00E-3	"	5.000E-2		104	109-116	2.73	200
Dibromomethane	**0.0535**			5.00E-3	"	5.000E-2		107	42-168	1.38	200
1,2-Dichlorobenzene	**0.0526**			5.00E-3	"	5.000E-2		105	47-163	5.36	200
1,3-Dichlorobenzene	**0.0539**			5.00E-3	"	5.000E-2		108	42-173	1.22	200
1,4-Dichlorobenzene	**0.0527**			5.00E-3	"	5.000E-2		105	41-170	0.952	200
1,1-Dichloroethane	**0.0532**			5.00E-3	"	5.000E-2		106	35-177	2.87	200
1,2-Dichloroethane	**0.0525**			5.00E-3	"	5.000E-2		105	20-188	4.61	200
1,1-Dichloroethene	**0.0543**			5.00E-3	"	5.000E-2		109	4-173	2.16	200
cis-1,2-Dichloroethene	**0.0552**			5.00E-3	"	5.000E-2		110	32-164	5.25	200
trans-1,2-Dichloroethene	**0.0515**			5.00E-3	"	5.000E-2		103	35-179	0.659	200
1,2-Dichloropropane	**0.0538**			5.00E-3	"	5.000E-2		108	44-156	3.36	200
1,3-Dichloropropane	**0.0537**			5.00E-3	"	5.000E-2		107	42-163	0.915	200
2,2-Dichloropropane	**0.0487**			5.00E-3	"	5.000E-2		97.4	12-158	6.39	200
1,1-Dichloropropene	**0.0549**			5.00E-3	"	5.000E-2		110	37-157	2.17	200
cis-1,3-Dichloropropene	**0.0461**			5.00E-3	"	5.000E-2		92.3	24-156	9.95	200
trans-1,3-Dichloropropene	**0.0445**			5.00E-3	"	5.000E-2		89.0	12-160	13.6	200
Ethylbenzene	**0.0616**			5.00E-3	"	5.000E-2		123	43-163	0.966	200
Hexachlorobutadiene	**0.0464**			5.00E-3	"	5.000E-2		92.9	21-166	1.45	200
2-Hexanone	**0.116**			0.0100	"	0.1000		116	116-145	6.44	200
Vinyl chloride	**0.0557**			0.0100	"	5.000E-2		111	0-200	4.19	200
Isopropylbenzene	**0.0671**	J		5.00E-3	"	5.000E-2		134	44-163	5.33	200

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RCRA, LCD, US EPA Region 5	Project: Blue Island Phenols	
77 West Jackson Boulevard	Project Number: [none]	**Reported:**
Chicago IL, 60604	Project Manager: Mike Beedle	Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

LCS Dup (B109064-BSD3) **Prepared & Analyzed: Sep-27-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
p-Isopropyltoluene	**0.0572**	J		5.00E-3	mg/L	5.000E-2		114	46-164	1.97	200
Methylene chloride	**0.0516**			5.00E-3	"	5.000E-2		103	44-174	2.13	200
4-Methyl-2-pentanone	**0.116**			0.0100	"	0.1000		116	108-119	5.56	200
Naphthalene	**0.0531**	J		5.00E-3	"	5.000E-2		106	27-161	5.14	200
n-Propylbenzene	**0.0616**			5.00E-3	"	5.000E-2		123	55-156	0.0843	200
Styrene	**0.0567**			5.00E-3	"	5.000E-2		113	43-157	11.1	200
1,1,2,2-Tetrachloroethane	**0.0610**	J		5.00E-3	"	5.000E-2		122	20-215	3.94	200
1,1,1,2-Tetrachloroethane	**0.0535**			5.00E-3	"	5.000E-2		107	28-176	4.28	200
Tetrachloroethene	**0.0530**			5.00E-3	"	5.000E-2		106	45-165	0.151	200
Toluene	**0.0541**			5.00E-3	"	5.000E-2		108	51-151	0.439	200
1,2,3-Trichlorobenzene	**0.0483**			5.00E-3	"	5.000E-2		96.6	37-159	3.50	200
1,2,4-Trichlorobenzene	**0.0487**			5.00E-3	"	5.000E-2		97.5	36-154	4.99	200
1,1,2-Trichloroethane	**0.0553**			5.00E-3	"	5.000E-2		111	27-174	0.724	200
1,1,1-Trichloroethane	**0.0507**			5.00E-3	"	5.000E-2		101	18-180	2.04	200
Trichloroethene	**0.0531**			5.00E-3	"	5.000E-2		106	44-159	0.391	200
1,2,3-Trichloropropane	**0.0604**	J		5.00E-3	"	5.000E-2		121	37-181	3.50	200
1,3,5-Trimethylbenzene	**0.0595**			5.00E-3	"	5.000E-2		119	37-171	0.225	200
1,2,4-Trimethylbenzene	**0.0582**			5.00E-3	"	5.000E-2		116	39-171	0.327	200
m+p-Xylene	**0.125**			0.0100	"	0.1000		125	45-163	2.61	200
o-Xylene	**0.0614**			5.00E-3	"	5.000E-2		123	44-163	1.73	200

Surrogate: Benzene-d6	*0.0085*	"	*1.000E-2*	*84.5*	*78-114*
Surrogate: Toluene-d8	*0.0097*	"	*1.000E-2*	*97.5*	*85-115*
Surrogate: 4-Bromofluorobenzene	*0.011*	"	*1.000E-2*	*107*	*79-109*

Matrix Spike (B109064-MS1) **Source: 1109008-01** **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit

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Certificate # L2280 Testing

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

Matrix Spike (B109064-MS1) **Source: 1109008-01** **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acetone	**0.400**	J		0.0250	mg/L	0.2500	U	160	137-200		
Acrolein	**0.232**			0.0250	"	0.2500	U	92.6	91-122		
Acrylonitrile	**0.262**			0.0250	"	0.2500	U	105	106-109		
Benzene	**0.0492**			5.00E-3	"	5.000E-2	U	98.4	34-167		
Bromobenzene	**0.0446**			0.0100	"	5.000E-2	U	89.2	44-167		
Bromochloromethane	**0.0483**			5.00E-3	"	5.000E-2	U	96.5	37-175		
Bromodichloromethane	**0.0400**			5.00E-3	"	5.000E-2	U	79.9	36-153		
Bromoform	**0.0403**	J		5.00E-3	"	5.000E-2	U	80.6	17-157		
Bromomethane	**0.0476**			0.0100	"	5.000E-2	U	95.2	106-116		
2-Butanone	**0.279**			0.0250	"	0.2500	U	111	105-119		
n-Butylbenzene	**0.0450**			5.00E-3	"	5.000E-2	U	89.9	39-157		
sec-Butylbenzene	**0.0374**			5.00E-3	"	5.000E-2	U	74.8	43-164		
tert-Butylbenzene	**0.0426**	J		5.00E-3	"	5.000E-2	U	85.1	45-162		
Carbon disulfide	**0.0363**			5.00E-3	"	5.000E-2	U	72.5	107-117		
Carbon tetrachloride	**0.0287**			5.00E-3	"	5.000E-2	U	57.4	9-173		
Chlorobenzene	**0.0453**			5.00E-3	"	5.000E-2	U	90.6	44-167		
Chloroethane	**0.0528**			0.0100	"	5.000E-2	U	106	107-175		
Chloroform	**0.0457**			5.00E-3	"	5.000E-2	U	91.5	46-157		
Chloromethane	**0.0492**			0.0100	"	5.000E-2	U	98.4	70-76		
2-Chlorotoluene	**0.0447**			5.00E-3	"	5.000E-2	U	89.5	35-173		
4-Chlorotoluene	**0.0452**			5.00E-3	"	5.000E-2	U	90.4	43-164		
Dibromochloromethane	**0.0432**			5.00E-3	"	5.000E-2	U	86.4	24-168		
1,2-Dibromo-3-chloropropane	**0.0481**			5.00E-3	"	5.000E-2	U	96.2	11-188		
1,2-Dibromoethane (EDB)	**0.0541**			5.00E-3	"	5.000E-2	U	108	109-116		
Dibromomethane	**0.0524**			5.00E-3	"	5.000E-2	U	105	42-168		
1,2-Dichlorobenzene	**0.0457**			5.00E-3	"	5.000E-2	U	91.4	47-163		
1,3-Dichlorobenzene	**0.0429**			5.00E-3	"	5.000E-2	U	85.7	42-173		
1,4-Dichlorobenzene	**0.0414**			5.00E-3	"	5.000E-2	U	82.7	41-170		
1,1-Dichloroethane	**0.0474**			5.00E-3	"	5.000E-2	U	94.8	35-177		
1,2-Dichloroethane	**0.0492**			5.00E-3	"	5.000E-2	U	98.3	20-188		
1,1-Dichloroethene	**0.0395**			5.00E-3	"	5.000E-2	U	79.1	4-173		
cis-1,2-Dichloroethene	**0.0498**			5.00E-3	"	5.000E-2	U	99.6	32-164		
trans-1,2-Dichloroethene	**0.0449**			5.00E-3	"	5.000E-2	U	89.8	35-179		

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

Matrix Spike (B109064-MS1) **Source: 1109008-01** **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dichloropropane	**0.0523**			5.00E-3	mg/L	5.000E-2	U	105	44-156		
1,3-Dichloropropane	**0.0527**			5.00E-3	"	5.000E-2	U	105	42-163		
2,2-Dichloropropane	**0.0428**			5.00E-3	"	5.000E-2	U	85.6	12-158		
1,1-Dichloropropene	**0.0411**			5.00E-3	"	5.000E-2	U	82.3	37-157		
cis-1,3-Dichloropropene	**0.0480**			5.00E-3	"	5.000E-2	U	95.9	24-156		
trans-1,3-Dichloropropene	**0.0499**			5.00E-3	"	5.000E-2	U	99.9	12-160		
Ethylbenzene	**0.0451**			5.00E-3	"	5.000E-2	U	90.3	43-163		
Hexachlorobutadiene	**0.0327**			5.00E-3	"	5.000E-2	U	65.3	21-166		
2-Hexanone	**0.107**			0.0100	"	0.1000	U	107	116-145		
Vinyl chloride	**0.0635**			0.0100	"	5.000E-2	0.00	127	0-200		
Isopropylbenzene	**0.0727**	J		5.00E-3	"	5.000E-2	U	145	44-163		
p-Isopropyltoluene	**0.0401**	J		5.00E-3	"	5.000E-2	U	80.3	46-164		
Methylene chloride	**0.0467**			5.00E-3	"	5.000E-2	U	93.4	44-174		
4-Methyl-2-pentanone	**0.109**			0.0100	"	0.1000	U	109	108-119		
Naphthalene	**0.0523**	J		5.00E-3	"	5.000E-2	U	105	27-161		
n-Propylbenzene	**0.0429**			5.00E-3	"	5.000E-2	U	85.7	55-156		
Styrene	**0.0457**			5.00E-3	"	5.000E-2	U	91.3	43-157		
1,1,2,2-Tetrachloroethane	**0.0483**	J		5.00E-3	"	5.000E-2	U	96.7	20-215		
1,1,1,2-Tetrachloroethane	**0.0427**			5.00E-3	"	5.000E-2	U	85.4	28-176		
Tetrachloroethene	**0.0381**			5.00E-3	"	5.000E-2	U	76.2	45-165		
Toluene	**0.0517**			5.00E-3	"	5.000E-2	U	103	51-151		
1,2,3-Trichlorobenzene	**0.0435**			5.00E-3	"	5.000E-2	U	87.0	37-159		
1,2,4-Trichlorobenzene	**0.0477**			5.00E-3	"	5.000E-2	U	95.5	36-154		
1,1,2-Trichloroethane	**0.0508**			5.00E-3	"	5.000E-2	U	102	27-174		
1,1,1-Trichloroethane	**0.0389**			5.00E-3	"	5.000E-2	U	77.8	18-180		
Trichloroethene	**0.0448**			5.00E-3	"	5.000E-2	U	89.6	44-159		
1,2,3-Trichloropropane	**0.0476**	J		5.00E-3	"	5.000E-2	U	95.2	37-181		
1,3,5-Trimethylbenzene	**0.0442**			5.00E-3	"	5.000E-2	U	88.3	37-171		
1,2,4-Trimethylbenzene	**0.0438**			5.00E-3	"	5.000E-2	U	87.6	39-171		
m+p-Xylene	**0.0902**			0.0100	"	0.1000	U	90.2	45-163		
o-Xylene	**0.0467**			5.00E-3	"	5.000E-2	U	93.3	44-163		

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Certificate # L2280 Testing

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

Matrix Spike (B109064-MS1) **Source: 1109008-01** **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Surrogate: Benzene-d6	*0.0084*				*mg/L*	*1.000E-2*		*84.5*	*78-114*		
Surrogate: Toluene-d8	*0.0097*				*"*	*1.000E-2*		*96.7*	*85-115*		
Surrogate: 4-Bromofluorobenzene	*0.0091*				*"*	*1.000E-2*		*91.3*	*79-109*		

Matrix Spike Dup (B109064-MSD1) **Source: 1109008-01** **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acetone	**0.370**	J		0.0250	mg/L	0.2500	U	148	137-200	7.98	200
Acrolein	**0.237**			0.0250	"	0.2500	U	94.9	91-122	2.48	200
Acrylonitrile	**0.269**			0.0250	"	0.2500	U	107	106-109	2.63	200
Benzene	**0.0531**			5.00E-3	"	5.000E-2	U	106	34-167	7.59	200
Bromobenzene	**0.0532**			0.0100	"	5.000E-2	U	106	44-167	17.5	200
Bromochloromethane	**0.0532**			5.00E-3	"	5.000E-2	U	106	37-175	9.71	200
Bromodichloromethane	**0.0452**			5.00E-3	"	5.000E-2	U	90.3	36-153	12.2	200
Bromoform	**0.0468**	J		5.00E-3	"	5.000E-2	U	93.6	17-157	14.9	200
Bromomethane	**0.0347**			0.0100	"	5.000E-2	U	69.3	106-116	31.4	200
2-Butanone	**0.273**			0.0250	"	0.2500	U	109	105-119	2.06	200
n-Butylbenzene	**0.0499**			5.00E-3	"	5.000E-2	U	99.8	39-157	10.4	200
sec-Butylbenzene	**0.0502**			5.00E-3	"	5.000E-2	U	100	43-164	29.2	200
tert-Butylbenzene	**0.0545**	J		5.00E-3	"	5.000E-2	U	109	45-162	24.7	200
Carbon disulfide	**0.0472**			5.00E-3	"	5.000E-2	U	94.3	107-117	26.1	200
Carbon tetrachloride	**0.0414**			5.00E-3	"	5.000E-2	U	82.8	9-173	36.2	200
Chlorobenzene	**0.0533**			5.00E-3	"	5.000E-2	U	107	44-167	16.1	200
Chloroethane	**0.0331**			0.0100	"	5.000E-2	U	66.1	107-175	46.0	200
Chloroform	**0.0496**			5.00E-3	"	5.000E-2	U	99.1	46-157	8.02	200
Chloromethane	**0.0324**			0.0100	"	5.000E-2	U	64.8	70-76	41.1	200
2-Chlorotoluene	**0.0535**			5.00E-3	"	5.000E-2	U	107	35-173	17.9	200
4-Chlorotoluene	**0.0537**			5.00E-3	"	5.000E-2	U	107	43-164	17.2	200
Dibromochloromethane	**0.0440**			5.00E-3	"	5.000E-2	U	87.9	24-168	1.71	200

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Certificate # L2280 Testing

RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

Matrix Spike Dup (B109064-MSD1) **Source: 1109008-01** **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dibromo-3-chloropropane	**0.0483**			5.00E-3	mg/L	5.000E-2	U	96.6	11-188	0.486	200
1,2-Dibromoethane (EDB)	**0.0545**			5.00E-3	"	5.000E-2	U	109	109-116	0.736	200
Dibromomethane	**0.0532**			5.00E-3	"	5.000E-2	U	106	42-168	1.45	200
1,2-Dichlorobenzene	**0.0495**			5.00E-3	"	5.000E-2	U	98.9	47-163	7.95	200
1,3-Dichlorobenzene	**0.0500**			5.00E-3	"	5.000E-2	U	100	42-173	15.5	200
1,4-Dichlorobenzene	**0.0479**			5.00E-3	"	5.000E-2	U	95.7	41-170	14.5	200
1,1-Dichloroethane	**0.0518**			5.00E-3	"	5.000E-2	U	104	35-177	8.98	200
1,2-Dichloroethane	**0.0498**			5.00E-3	"	5.000E-2	U	99.6	20-188	1.26	200
1,1-Dichloroethene	**0.0523**			5.00E-3	"	5.000E-2	U	105	4-173	27.7	200
cis-1,2-Dichloroethene	**0.0513**			5.00E-3	"	5.000E-2	U	103	32-164	2.98	200
trans-1,2-Dichloroethene	**0.0513**			5.00E-3	"	5.000E-2	U	103	35-179	13.3	200
1,2-Dichloropropane	**0.0553**			5.00E-3	"	5.000E-2	U	111	44-156	5.61	200
1,3-Dichloropropane	**0.0529**			5.00E-3	"	5.000E-2	U	106	42-163	0.303	200
2,2-Dichloropropane	**0.0506**			5.00E-3	"	5.000E-2	U	101	12-158	16.7	200
1,1-Dichloropropene	**0.0523**			5.00E-3	"	5.000E-2	U	105	37-157	24.0	200
cis-1,3-Dichloropropene	**0.0491**			5.00E-3	"	5.000E-2	U	98.3	24-156	2.39	200
trans-1,3-Dichloropropene	**0.0488**			5.00E-3	"	5.000E-2	U	97.7	12-160	2.26	200
Ethylbenzene	**0.0560**			5.00E-3	"	5.000E-2	U	112	43-163	21.4	200
Hexachlorobutadiene	**0.0414**			5.00E-3	"	5.000E-2	U	82.9	21-166	23.7	200
2-Hexanone	**0.110**			0.0100	"	0.1000	U	110	116-145	2.00	200
Vinyl chloride	**0.0346**			0.0100	"	5.000E-2	0.00	69.2	0-200	58.9	200
Isopropylbenzene	**0.0699**	J		5.00E-3	"	5.000E-2	U	140	44-163	3.93	200
p-Isopropyltoluene	**0.0511**	J		5.00E-3	"	5.000E-2	U	102	46-164	24.0	200
Methylene chloride	**0.0505**			5.00E-3	"	5.000E-2	U	101	44-174	7.78	200
4-Methyl-2-pentanone	**0.110**			0.0100	"	0.1000	U	110	108-119	1.20	200
Naphthalene	**0.0534**	J		5.00E-3	"	5.000E-2	U	107	27-161	2.05	200
n-Propylbenzene	**0.0551**			5.00E-3	"	5.000E-2	U	110	55-156	25.0	200
Styrene	**0.0525**			5.00E-3	"	5.000E-2	U	105	43-157	14.0	200
1,1,2,2-Tetrachloroethane	**0.0549**	J		5.00E-3	"	5.000E-2	U	110	20-215	12.7	200
1,1,1,2-Tetrachloroethane	**0.0504**			5.00E-3	"	5.000E-2	U	101	28-176	16.5	200
Tetrachloroethene	**0.0502**			5.00E-3	"	5.000E-2	U	100	45-165	27.4	200
Toluene	**0.0551**			5.00E-3	"	5.000E-2	U	110	51-151	6.35	200
1,2,3-Trichlorobenzene	**0.0453**			5.00E-3	"	5.000E-2	U	90.5	37-159	4.02	200

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Volatiles by GC/MS, EPA 8260B (modified) - Quality Control
US EPA Region 5 Chicago Regional Laboratory

Batch B109064 - Volatiles

Matrix Spike Dup (B109064-MSD1) **Source: 1109008-01** **Prepared & Analyzed: Sep-26-11**

Analyte	Result	Flags / Qualifiers	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	**0.0507**			5.00E-3	mg/L	5.000E-2	U	101	36-154	6.01	200
1,1,2-Trichloroethane	**0.0551**			5.00E-3	"	5.000E-2	U	110	27-174	8.11	200
1,1,1-Trichloroethane	**0.0487**			5.00E-3	"	5.000E-2	U	97.5	18-180	22.4	200
Trichloroethene	**0.0519**			5.00E-3	"	5.000E-2	U	104	44-159	14.7	200
1,2,3-Trichloropropane	**0.0540**	J		5.00E-3	"	5.000E-2	U	108	37-181	12.6	200
1,3,5-Trimethylbenzene	**0.0543**			5.00E-3	"	5.000E-2	U	109	37-171	20.5	200
1,2,4-Trimethylbenzene	**0.0529**			5.00E-3	"	5.000E-2	U	106	39-171	18.9	200
m+p-Xylene	**0.111**			0.0100	"	0.1000	U	111	45-163	20.3	200
o-Xylene	**0.0558**			5.00E-3	"	5.000E-2	U	112	44-163	17.9	200
Surrogate: Benzene-d6	*0.0088*				"	*1.000E-2*		*88.4*	*78-114*		
Surrogate: Toluene-d8	*0.0098*				"	*1.000E-2*		*97.7*	*85-115*		
Surrogate: 4-Bromofluorobenzene	*0.010*				"	*1.000E-2*		*103*	*79-109*		

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RCRA, LCD, US EPA Region 5 77 West Jackson Boulevard Chicago IL, 60604	Project: Blue Island Phenols Project Number: [none] Project Manager: Mike Beedle	**Reported:** Nov-08-11 16:35

Notes and Definitions

K	The identification of the analyte is acceptable; the reported value may be biased high. The actual value is expected to be less than the reported value.
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Not Detected
NR	Not Reported

Environmental Protection Agency Region 5
Chicago Regional Laboratory

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WORK ORDER **Printed: 11/8/2011 2:49:14PM**

1109008

US EPA Region 5 Chicago Regional Laboratory

Client: **RCRA, LCD, US EPA Region 5** **Project Manager:** **Angela Ockrassa**
Project: **Blue Island Phenols** **Project Number:** **[none]**

Report To:
Mike Beedle
RCRA, LCD, US EPA Region 5
77 West Jackson Boulevard
Chicago, IL 60604
Phone: 3-7922
Fax: (312)353-4342

Date Due: Oct-29-11 15:00 (45 day TAT)
Received By: Robert Snyder Date Received: Sep-13-11 15:11
Logged In By: Robert Snyder Date Logged In: Sep-14-11 09:06

Samples Received at:	**15.2°C**
Sample tags/labels	**Yes**
Seals Intact	**Yes**
Received on ice	**Yes**
Paperwork Included	**Yes**

Analysis	Due	TAT	Expires	Comments
1109008-01 BIP-1 [Water] Sampled Sep-13-11 09:15 Central				
TCLP/ZHE VOLATILES	Oct-29-11 12:00	45	Sep-27-11 09:15	pH = 8, report non-TCLP analytes
Metals, TCLP ICP (w/o Hg)	Oct-29-11 12:00	45	Mar-11-12 09:15	pH = 8, run only if total metals is high
TCLP - SVOA by end-over-end rotator	Oct-29-11 12:00	45	Sep-20-11 09:15	pH = 8, report non-TCLP analytes
TCLP/ZHE Extraction	Oct-29-11 12:00	45	Sep-27-11 09:15	pH = 8
Metals full ICP (W)	Oct-29-11 12:00	45	Mar-11-12 09:15	pH = 8
TCLP Extraction	Oct-29-11 12:00	45	Sep-27-11 09:15	pH = 8
Hardness by calc	Oct-29-11 12:00	45	Mar-11-12 09:15	pH = 8
1109008-02 BIP-2 [Water] Sampled Sep-13-11 09:21 Central				
TCLP - SVOA by end-over-end rotator	Oct-29-11 12:00	45	Sep-20-11 09:21	pH = 8, report non-TCLP analytes
TCLP Extraction	Oct-29-11 12:00	45	Sep-27-11 09:21	pH = 8
Hardness by calc	Oct-29-11 12:00	45	Mar-11-12 09:21	pH = 8
TCLP/ZHE VOLATILES	Oct-29-11 12:00	45	Sep-27-11 09:21	pH = 8, report non-TCLP analytes
Metals, TCLP ICP (w/o Hg)	Oct-29-11 12:00	45	Mar-11-12 09:21	pH = 8, run only if total metals is high
TCLP/ZHE Extraction	Oct-29-11 12:00	45	Sep-27-11 09:21	pH = 8
Metals full ICP (W)	Oct-29-11 12:00	45	Mar-11-12 09:21	pH = 8

WORK ORDER

Printed: 11/8/2011 2:49:14PM

1109008

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5
Project: Blue Island Phenols
Project Manager: Angela Ockrassa
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
1109008-03 BIP-3 [Water] Sampled Sep-13-11 09:29 Central				
Metals full ICP (W)	Oct-29-11 12:00	45	Mar-11-12 09:29	pH = 8
TCLP - SVOA by end-over-end rotator	Oct-29-11 12:00	45	Sep-20-11 09:29	pH = 8, report non-TCLP analytes
Metals, TCLP ICP (w/o Hg)	Oct-29-11 12:00	45	Mar-11-12 09:29	pH = 8, run only if total metals is high
TCLP/ZHE Extraction	Oct-29-11 12:00	45	Sep-27-11 09:29	pH = 8
TCLP Extraction	Oct-29-11 12:00	45	Sep-27-11 09:29	pH = 8
TCLP/ZHE VOLATILES	Oct-29-11 12:00	45	Sep-27-11 09:29	pH = 8, report non-TCLP analytes
Hardness by calc	Oct-29-11 12:00	45	Mar-11-12 09:29	pH = 8
1109008-04 BIP-4 [Water] Sampled Sep-13-11 10:07 Central				
TCLP Extraction	Oct-29-11 12:00	45	Sep-27-11 10:07	pH = 8
TCLP - SVOA by end-over-end rotator	Oct-29-11 12:00	45	Sep-20-11 10:07	pH = 8, report non-TCLP analytes
Metals, TCLP ICP (w/o Hg)	Oct-29-11 12:00	45	Mar-11-12 10:07	pH = 8, run only if total metals is high
TCLP/ZHE Extraction	Oct-29-11 12:00	45	Sep-27-11 10:07	pH = 8,
TCLP/ZHE VOLATILES	Oct-29-11 12:00	45	Sep-27-11 10:07	pH = 8, report non-TCLP analytes
Metals full ICP (W)	Oct-29-11 12:00	45	Mar-11-12 10:07	pH = 8
1109008-05 BIP-5 [Water] Sampled Sep-13-11 10:18 Central				
TCLP - SVOA by end-over-end rotator	Oct-29-11 12:00	45	Sep-20-11 10:18	pH = 8, report non-TCLP analytes
Metals, TCLP ICP (w/o Hg)	Oct-29-11 12:00	45	Mar-11-12 10:18	pH = 8, run only if total metals is high
TCLP Extraction	Oct-29-11 12:00	45	Sep-27-11 10:18	pH = 8
TCLP/ZHE Extraction	Oct-29-11 12:00	45	Sep-27-11 10:18	pH = 8
Metals full ICP (W)	Oct-29-11 12:00	45	Mar-11-12 10:18	pH = 8
TCLP/ZHE VOLATILES	Oct-29-11 12:00	45	Sep-27-11 10:18	pH = 8, report non-TCLP analytes
1109008-06 BIP-6 [Soil] Sampled Sep-13-11 10:28 Central				
SVOA Expanded List	Oct-29-11 12:00	45	Sep-27-11 10:28	pH = 8
Total % Dry Solids 105C	Sep-23-11 12:00	10	Sep-20-11 10:28	
1109008-07 BIP-7 [Water] Sampled Sep-13-11 11:17 Central				
TCLP - SVOA by end-over-end rotator	Oct-29-11 12:00	45	Sep-20-11 11:17	report non-TCLP analytes
Ingnitability by flash point	Oct-29-11 12:00	45	Sep-12-12 11:17	
Metals, TCLP ICP (w/o Hg)	Oct-29-11 12:00	45	Mar-11-12 11:17	run only if total metals is high
TCLP Extraction	Oct-29-11 12:00	45	Sep-27-11 11:17	
TCLP/ZHE VOLATILES	Oct-29-11 12:00	45	Sep-27-11 11:17	report non-TCLP analytes
Metals full ICP (W)	Oct-29-11 12:00	45	Mar-11-12 11:17	
TCLP/ZHE Extraction	Oct-29-11 12:00	45	Sep-27-11 11:17	

WORK ORDER

Printed: 11/8/2011 2:49:14PM

1109008

US EPA Region 5 Chicago Regional Laboratory

Client: RCRA, LCD, US EPA Region 5
Project: Blue Island Phenols

Project Manager: Angela Ockrassa
Project Number: [none]

Analysis	Due	TAT	Expires	Comments
1109008-08 BIP-7, 9008-07 aqueous phase [Water] Sampled Sep-13-11 11:17 Central				
TCLP/ZHE VOLATILES	Oct-29-11 12:00	45	Sep-27-11 11:17	
TCLP Extraction	Oct-29-11 12:00	45	Sep-27-11 11:17	
Metals full ICP (W)	Oct-29-11 12:00	45	Mar-11-12 11:17	
TCLP/ZHE Extraction	Oct-29-11 12:00	45	Sep-27-11 11:17	
Ingnitability by flash point	Oct-29-11 12:00	45	Sep-12-12 11:17	
Metals, TCLP ICP (w/o Hg)	Oct-29-11 12:00	45	Mar-11-12 11:17	run only if total metals is high
TCLP - SVOA by end-over-end rotator	Oct-29-11 12:00	45	Sep-20-11 11:17	report non-TCLP analytes
1109008-09 BIP-7, 9008-07 oil phase [Soil] Sampled Sep-13-11 11:17 Central				
Total % Dry Solids 105C	Oct-29-11 12:00	45	Sep-20-11 11:17	
TCLP - SVOA by end-over-end rotator	Oct-29-11 12:00	45	Sep-27-11 11:17	
TCLP/ZHE VOLATILES	Oct-29-11 12:00	45	Sep-27-11 11:17	
Metals full ICP (S)	Oct-29-11 12:00	45	Mar-11-12 11:17	
Metals, TCLP ICP (w/o Hg)	Oct-29-11 12:00	45	Mar-11-12 11:17	run only if total metals is high
TCLP Extraction	Oct-29-11 12:00	45	Sep-27-11 11:17	
Ingnitability by flash point	Oct-29-11 12:00	45	Sep-12-12 11:17	

Analysis groups included in this work order

Hardness by calc

Mg ICP (W) Ca ICP (W)

Reviewed By

Date

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 9/29/2011

Volatiles in WATER extraction/analysis bench sheet

Analyst(s): C. Tang

Spiking Solution(s) Added By: C. Tang and Solatek 72 autosampler

Batch Number: B109064
Analyses Included On This Benchsheet

TCLP/ZHE VOLATILES

Surrogate 1: 1080114 Amount: 5uL

Sample Number	Source ID for duplicate or MS/MSD	LCS/MS Spike LIMS ID	LCS/MS Spike Amount (uL)	Sample volume (mL)	Dil 1	Dil 2	Dil 3	Dil 4	Comments
1109008-09				5	100x10x20	100x10x250			oil portion, extracted with methanol
1109008-08				5	10x20	10x250	10x10x100		aqueous portion.
1109008-01				5					
1109008-02				5	1x5				
1109008-03				5	1x5				
1109008-04				5	1x10				
1109008-05				5	1x10 ~~and 9/29/11~~				
1109008-07				5	~~10x20~~				Reported from combined 1109008-08 & -09
B109064-BLK1	-			5					
B109064-BSD2	-	1090912	2.5	5					
B109064-BS1	-	1090912	2.5	5					
B109064-BLK3	-			5					
B109064-BLK2	-			5					TCLP filtration Blank
B109064-MS1	1109008-01	1090912	2.5	5					
B109064-BSD1	-	1090912	2.5	5					
B109064-MSD1	1109008-01	1090912	2.5	5					
B109064-BS2	-	1090912	2.5	5					

Batch Comments:

Comments:

Environmental Protection Agency Region 5
Chicago Regional Laboratory
536 South Clark Street, Chicago, IL 60605
Phone:(312)353-8370 Fax:(312)886-2591

Date: 9/29/2011

Volatiles in WATER extraction/analysis bench sheet

Analyst(s): _____

Spiking Solution(s) Added By: _____

Batch Number: B109064
Analyses Included On This Benchsheet

TCLP/ZHE VOLATILES

Surrogate 1: 1080114 Amount: 5uL

Sample Number	Source ID for duplicate or MS/MSD	LCS/MS Spike LIMS ID	LCS/MS Spike Amount (uL)	Sample volume (mL)	Dil 1	Dil 2	Dil 3	Dil 4	Comments

* After all dilutions.

Solvents used: Methanol (✓) Other (list): _____
Solvent lot numbers: B&J : DB322

Reagents used: 1:1 HCl - H_2O ( ) Other (List): _____

Reagent LIMS IDs or manufacturer / part # / lot # (NOTE: LIMS ID required for all prepared solutions):
IC : LIMS 1090912/1092601
IC Check : LIMS 1090605/1092602
CCV : LIMS 1090912/1092601

Batch Comments:

Comments:

1109008. RCRA Blue Island Phenols,
9/20/11 910 am Dry solids % determination.

Sample #	beaker tare wt	beaker + sample	beaker - sample	sample transferred
1109008-01	106.994 g	229.074 g	107.491	121.533
-02	107.356 g	216.805 g	107.765	109.040
-03	107.214 g	225.391 g	107.619	117.778
-04	108.747 g	218.145 g	109.238	108.907
-05	111.494 g	228.710 g	112.084	116.626
-07	108.940 g	218.431 g	110.008	108.423

	clean filter paper wt	filter + wet solids	filter + solids dried @ 105°C (filters removed from oven 4:30 pm 9/20/11)	9/21/11 950 AM removed from desic
Filter Paper #1	1.548 g	6.183 g	1.531 g	1.532
#2	1.370 g	5.303 g	1.454 g	1.454
#3	~~1.551 g~~ 1.372 g	5.403 g	1.347 g	1.348
#4	~~1.368 g~~ 1.546 g	5.862 g	1.518 g	1.516
#5	~~1.548 g~~ 1.554	5.736 g	1.525 g	1.525
#7	1.365 g	4.786 g	1.776 g	1.766
blank	1.555			1.540

	flask Tare wt	flask + filtrate	filtrate
1109008-01	65.358 g	177.427 g	112.069
-02	66.502	170.686 g	104.184
-03	90.094	203.555 g	113.461
-04	89.528	194.451 g	104.923
-05	91.171	202.874 g	111.703
-07	78.009	183.599 g	105.590

1109008 RCRA Blue Island Phenols

9/21/11

density of the oil portion of 1109008-07

measurement #1 $d = \frac{0.891\,g}{1\,mL}$

#2 $d = \frac{0.878\,g}{1\,mL}$

#3 $d = \frac{0.886\,g}{1\,mL}$

$d_{average} = \frac{0.891 + 0.878 + 0.886}{3} = 0.885\ g/mL$

density of the aqueous portion of 1109008-07

measurement #1 $d = 0.978\ g/mL$

#2 $d = 0.988\ g/mL$

#3 $d = 0.914\ g/mL$

$d_{average} = \frac{0.978 + 0.988 + 0.914}{3} = 0.980\ g/mL$

AM

take 5 mL oil & extracted with 5 mL methanol

take 10 mL aqueous & diluted to 100 mL with de-ionized water to make it 10:100 (10X) dilution, stored in two 40-mL VOC vials

CW 9/21/11

Dry Solids % Determination

TCLP ALTERNATIVE BENCH SHEET

Work Order 1109008 Date 9/20/2011 Initials of Analysts CT

Fill in only the applicable boxes. * = calculated value

Sample ID	1109008-05	1109008-07		
§7.1.1 Pre-aliquot determination:				
A = weight of container (g)	111.494	108.940		
B = wt. of A and sample (g)	228.710	218.431		
C = wt. of pre-aliquot (B-A) (g)	* 117.216	* 109.491	*	*
Single-phase or Multi-phase:				
Is sample 100% solids?	NO	NO		
Any visible solids present?	Yes	Yes		
§7.1.1 Phase Separation:				
D = wt. of collection container (g)	91.171			
E = wt. of filter/unit (g)	1.554	1.365		
F = wt. of A after samp. is trans. to separation device (g)		110.008		
G = wt of sample tested (B-F) (g)	* 116.626	* 108.423	*	*
H = wt. of D + 1st filtrate (g)	202.874			
I = wt. of 1st filtrate (H-D) (g)	* 111.703	*	*	*
Volume of 1st filtrate (ml)				
J = wt of wet solids (G-I) (g)	* 4.923	*	*	*
% wet solids = [(J/G) 100]	* 4.22	*	*	*
Wt. of wet filter and solids (g)	5.936			
K = wt of dry solids and filter (g)	1.525	1.766		
% dry solids = {[(K-E)/G] 100}	* 0	* 0.37	*	*
Density of 1st filtrate needed?				
Extraction Evaluation:				
Add'l sample aliquot required?				
Particle size reduction required?				
§7.1.3 Solid phase to be extracted?	NO	NO		
Liquid phase to be analyzed?	Yes	Yes		
§7.1.4 Fluid determination:				
Sample weight (g)				
Initial and Final pH				
Fluid choice				
§7.2.10 Extraction:				
L = wt. of ex. fl. (G or J)(20) (g)	*	*	*	*
ZHE start and end pressure (psi)				
§7.2.13 Combining Filtrates:				
Combine 1st and 2nd filtrates?				
M = wt. of 2nd filtrate (g)				
N = wt. of 1st filtrate [(M/L) I] (g)	*	*	*	*
§7.2.14 Final TCLP extract pH				
pH				
§7.2.14 Acidification:				
Volume of nitric acid (mL)				
Volume of TCLP extract (mL)				
Additional comments on back?				

Dry solids % Determination

TCLP ALTERNATIVE BENCH SHEET

Work Order 1109008 Date 9/20/2011 Initials of Analysts CT

Fill in only the applicable boxes. * = calculated value

Sample ID	1109008-01	1109008-02	1109008-03	1109008-04
§7.1.1 Pre-aliquot determination:				
A = weight of container (g)	106.994	107.356	109.214	108.947
B = wt. of A and sample (g)	229.024	216.805	225.397	218.145
C = wt. of pre-aliquot (B-A) (g)	*	*	*	*
Single-phase or Multi-phase:				
Is sample 100% solids?	NO	NO	NO	NO
Any visible solids present?	Yes	Yes.	Yes	Yes
§7.1.1 Phase Separation:				
D = wt. of collection container (g)	~~1.548~~	~~1.370~~		
E = wt. of filter/unit (g)	1.548	1.370	1.372	1.546
F = wt. of A after samp. is trans. to separation device (g)	107.491	107.765	109.238	112.084
G = wt of sample tested (B-F) (g)	* 121.533	* 109.040	* 117.778	* 108.907
H = wt. of D + 1st filtrate (g)				
I = wt. of 1st filtrate (H-D) (g)	*	*	*	*
Volume of 1st filtrate (ml)				
J = wt of wet solids (G-I) (g)	*	*	*	*
% wet solids = [(J/G) 100]	*	*	*	*
Wt. of wet filter and solids (g)				
K = wt of dry solids and filter (g)	1.532	1.454	1.348	1.516
% dry solids = {[(K-E)/G] 100}	* 0 %	* 0.08	* 0	* 0
Density of 1st filtrate needed?				
Extraction Evaluation:				
Add'l sample aliquot required?				
Particle size reduction required?				
§7.1.3 Solid phase to be extracted?	NO	NO	NO	NO
Liquid phase to be analyzed?	Yes	Yes	Yes	Yes
§7.1.4 Fluid determination:				
Sample weight (g)				
Initial and Final pH				
Fluid choice				
§7.2.10 Extraction:				
L = wt. of ex. fl. (G or J)(20) (g)	*	*	*	*
ZHE start and end pressure (psi)				
§7.2.13 Combining Filtrates:				
Combine 1st and 2nd filtrates?				
M = wt. of 2nd filtrate (g)				
N = wt. of 1st filtrate [(M/L) I] (g)	*	*	*	*
§7.2.14 Final TCLP extract pH				
pH				
§7.2.14 Acidification:				
Volume of nitric acid (mL)				
Volume of TCLP extract (mL)				
Additional comments on back?				

Filtration of samples

TCLP ALTERNATIVE BENCH SHEET

Work Order _____ Date _____ Initials of Analysts _____

Fill in only the applicable boxes. * = calculated value

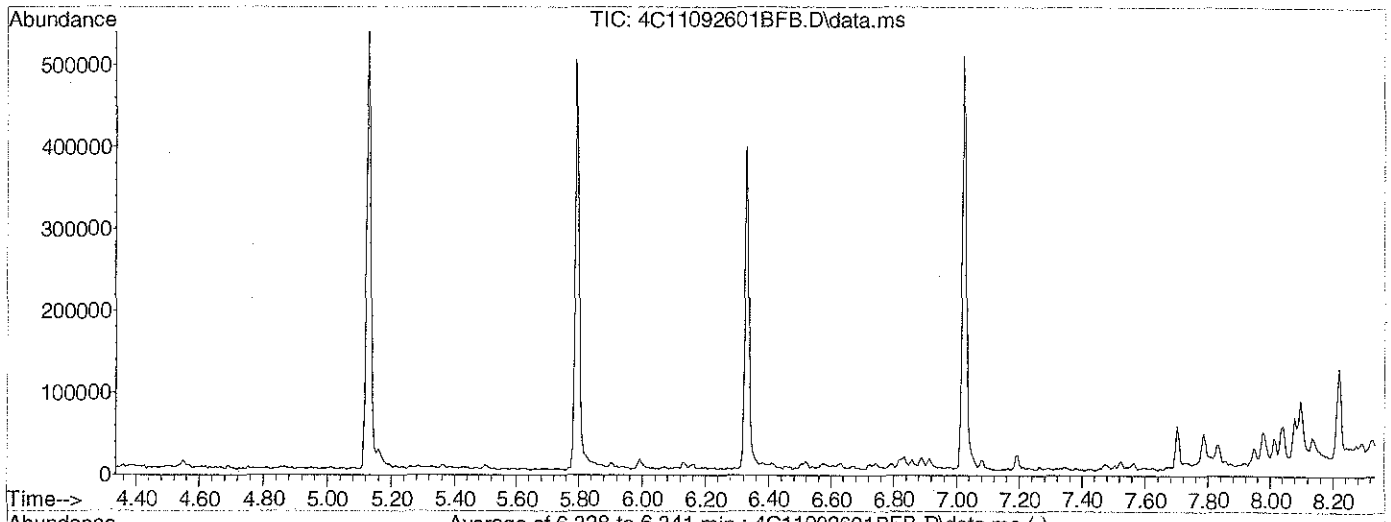
Sample ID	1109008-05	1109008-07	D.I. water	
§7.1.1 Pre-aliquot determination: Vol filtered:			247 mL	
A = weight of container (g)	134.78	124.95	128.02	
B = wt. of A and sample (g)	395.16	385.91	374.12	
C = wt. of pre-aliquot (B-A) (g)	*	*	*	*
Single-phase or Multi-phase:				
Is sample 100% solids?				
Any visible solids present?				
§7.1.1 Phase Separation:				
D = wt. of collection container (g)				
E = wt. of filter/unit (g)				
F = wt. of A after samp. is trans. to separation device (g)				
G = wt of sample tested (B-F) (g)	*	*	*	*
H = wt. of D + 1st filtrate (g)				
I = wt. of 1st filtrate (H-D) (g)	*	*	*	*
Volume of 1st filtrate (ml)				
J = wt of wet solids (G-I) (g)	*	*	*	*
% wet solids = [(J/G) 100]	*	*	*	*
Wt. of wet filter and solids (g)				
K = wt of dry solids and filter (g)				
% dry solids = {[(K-E)/G] 100}	*	*	*	*
Density of 1st filtrate needed?				
Extraction Evaluation:				
Add'l sample aliquot required?				
Particle size reduction required?				
§7.1.3 Solid phase to be extracted?				
Liquid phase to be analyzed?				
§7.1.4 Fluid determination:				
Sample weight (g)				
Initial and Final pH				
Fluid choice				
§7.2.10 Extraction:				
L = wt. of ex. fl. (G or J)(20) (g)	*	*	*	*
ZHE start and end pressure (psi)				
§7.2.13 Combining Filtrates:				
Combine 1st and 2nd filtrates?				
M = wt. of 2nd filtrate (g)				
N = wt. of 1st filtrate [(M/L) I] (g)	*	*	*	*
§7.2.14 Final TCLP extract pH				
pH				
§7.2.14 Acidification:				
Volume of nitric acid (mL)				
Volume of TCLP extract (mL)				
Additional comments on back?				

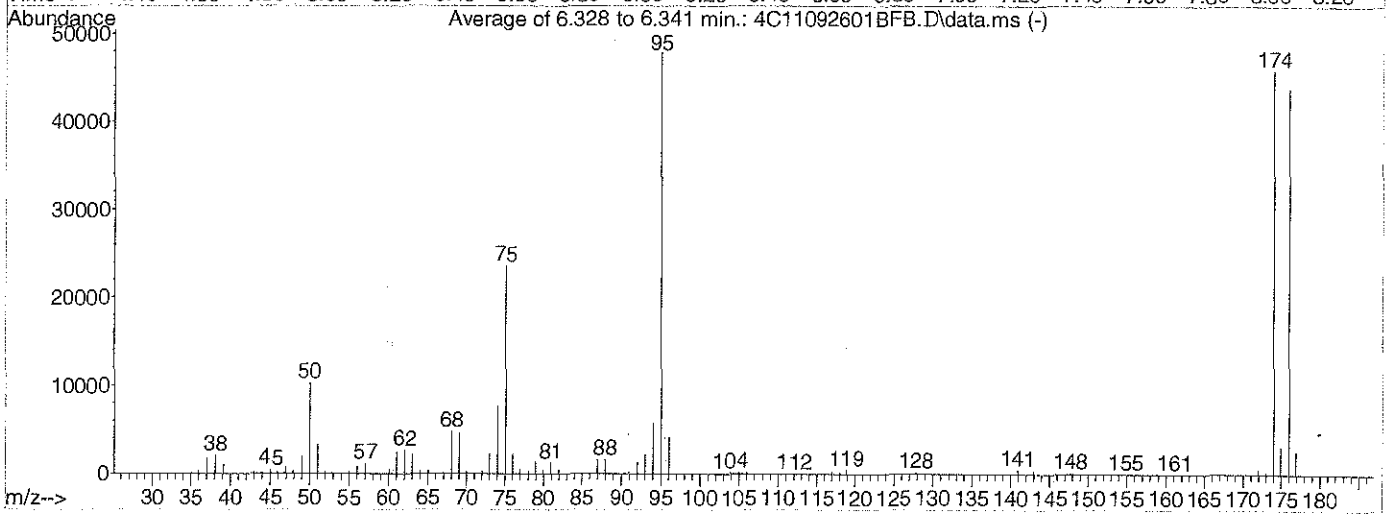
1109008-07 phase separation:
250 mL grad cylinder mass (g): 252.77 + filtrate (g): 500.42 g
aqueous phase vol (mL): 139
aqueous phase mass: ~~363.~~ 500.42 - 363.04 = 137.38 g
oil vol: 125 mL oil mass: 363.04 - 252.77 = 110.27 g

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092601BFB.D
Acq On : 26 Sep 2011 10:36
Operator : CTANG
Sample : BFB
Misc : LIMS # 1080114
ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : D:\KLEINMAIER\METHODS\GCMS4_DK_110906.M
Title :
Last Update : Fri Sep 09 11:05:49 2011





Spectrum Information: Average of 6.328 to 6.341 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	10322	PASS
75	95	30	66	49.2	23603	PASS
95	95	100	100	100.0	47975	PASS
96	95	5	9	8.7	4165	PASS
173	174	0.00	2	0.6	282	PASS
174	95	50	120	95.7	45911	PASS
175	174	5	9	6.8	3106	PASS
176	174	95	101	95.6	43906	PASS
177	176	5	9	6.0	2651	PASS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Blue Island Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 1109008 SAS No.: SDG No.: MS023

Lab File ID: 4C11092601BF BFB Injection Date: 9/26/2011

Instrument ID: GCMS 4 BFB Injection Time: 10:36

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.5
75	30.0 - 66.0% of mass 95	49.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.7
173	Less than 2.0% of mass 174	0.6 (0.6)1
174	50.0 - 120.0% of mass 95	95.7
175	4.0 - 9.0% of mass 174	6.5 (6.8)1
176	93.0 - 101.0% of mass 174	91.5 (95.6)1
177	5.0 - 9.0% of mass 176	5.5 (6.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

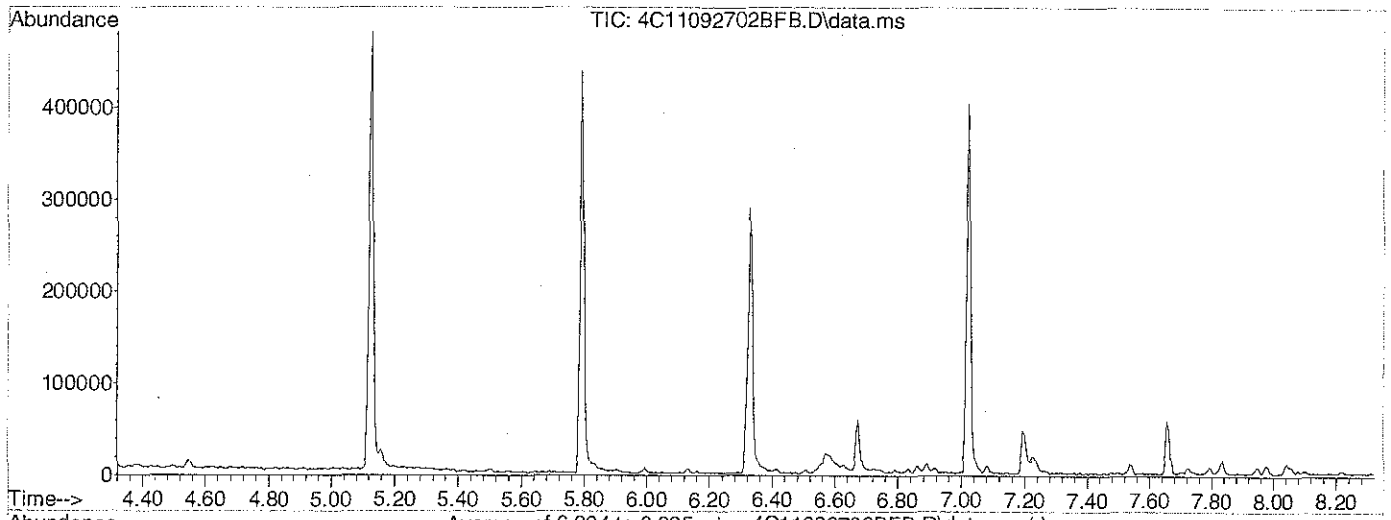
	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	IC #3 AT 250 NG	B109064-BS1	4C11092602IC	9/26/2011	12:27
02	IC #6 AT 1000 NG	IC AT 1,000 NG	4C11092603IC	9/26/2011	12:48
03	IC AT 750 NG	IC AT 750 NG	4C11092604IC	9/26/2011	13:09
04	IC AT 500 NG	IC AT 500 NG	4C11092605IC	9/26/2011	13:31
05	IC AT 125 NG	IC AT 125 NG	4C11092606IC	9/26/2011	13:52
06	IC AT 25 NG	IC AT 25 NG	4C11092607IC	9/26/2011	14:13
07	IC CHECK AT 250	IC CHECK AT 250 NG	4C11092608IC	9/26/2011	15:07
08	B109064-BLK1	B109064-BLK1	4C11092609BL	9/26/2011	15:29
09	TCLP FILTRATIO	B109064-BLK2	4C11092610BL	9/26/2011	15:50
10	BIP-1 FILTRATE	1109008-01	4C11092611.D	9/26/2011	16:11
11	BIP-2 FILTRATE 1	1109008-02	4C11092612.D	9/26/2011	16:34
12	BIP-3 FILTRATE 1	1109008-03	4C11092613.D	9/26/2011	16:57
13	BIP-4 FILTRATE 1	1109008-04	4C11092614.D	9/26/2011	17:20
14	BIP-5 FILTRATE 1	1109008-05	4C11092615.D	9/26/2011	17:43
15	BIP-7 AQUEOUS	1109008-07	4C11092616.D	9/26/2011	18:05
16	LAB BLANK	LAB BLANK	4C11092617.D	9/26/2011	18:26
17	BIP-1 MS1	B109064-MS1	4C11092618M	9/26/2011	18:47
18	BIP-1 MSD1	B109064-MSD1	4C11092619M	9/26/2011	19:09
19	CCV	B109064-BSD1	4C11092620BS	9/26/2011	19:30

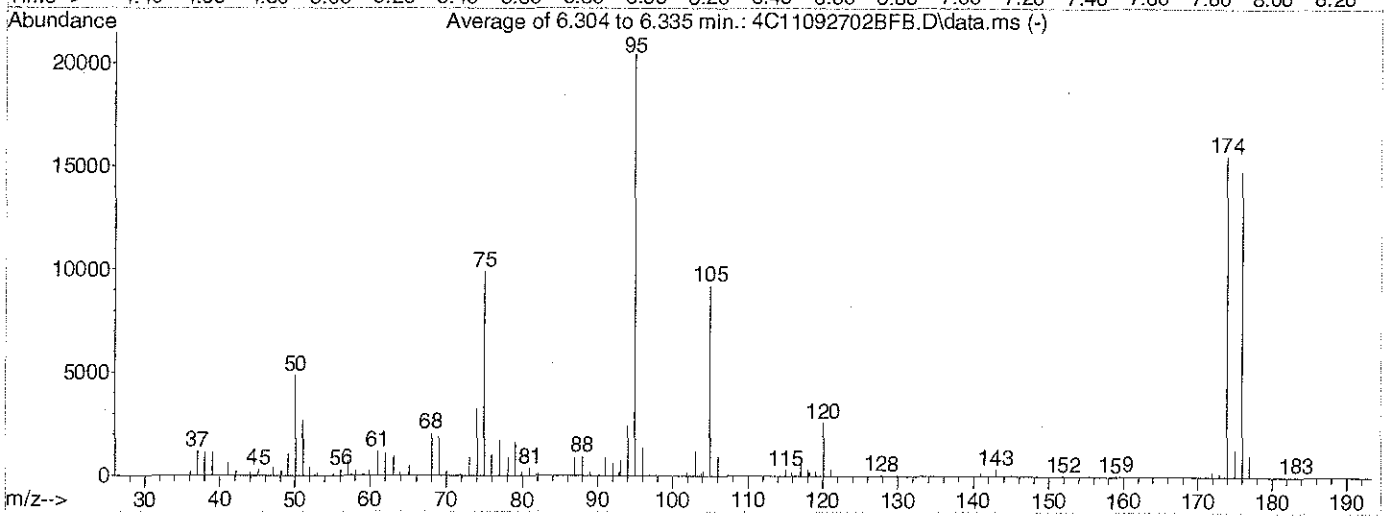
BFB

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092702BFB.D
Acq On : 27 Sep 2011 11:31
Operator : CTANG
Sample : BFB
Misc : LIMS # 1080114
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : D:\CTANG\METHODS\GCMS4_110926.M
Title :
Last Update : Mon Sep 26 14:48:09 2011





Spectrum Information: Average of 6.304 to 6.335 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.7	4851	PASS
75	95	30	66	48.5	9910	PASS
95	95	100	100	100.0	20446	PASS
96	95	5	9	6.5	1332	PASS
173	174	0.00	2	0.9	144	PASS
174	95	50	120	76.0	15546	PASS
175	174	5	9	8.4	1305	PASS
176	174	95	101	95.1	14788	PASS
177	176	5	9	6.9	1022	PASS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Blue Island Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 1109008 SAS No.: SDG No.: MS023

Lab File ID: 4C11092702BF BFB Injection Date: 9/27/2011

Instrument ID: GCMS 4 BFB Injection Time: 11:31

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.7
75	30.0 - 66.0% of mass 95	48.5
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.7 (0.9)1
174	50.0 - 120.0% of mass 95	76.0
175	4.0 - 9.0% of mass 174	6.4 (8.4)1
176	93.0 - 101.0% of mass 174	72.3 (95.1)1
177	5.0 - 9.0% of mass 176	5.0 (6.9)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	CCV WITH METH	B109064-BS2	4C11092703C	9/27/2011	12:37
02	B109064-BLK3	B109064-BLK3	4C11092704BL	9/27/2011	12:58
03	CCV WITHOUT M	B109064-BS3	4C11092705C	9/27/2011	14:03
04	BIP-7 AQUEOUS	1109008-07	4C11092706.D	9/27/2011	14:41
05	LAB BLANK	LAB BLANK	4C11092707BL	9/27/2011	15:32
06	BIP-7 AQUEOUS	1109008-07	4C11092708.D	9/27/2011	15:55
07	BIP-7 OIL 20,000X	1109008-07	4C11092709.D	9/27/2011	16:18
08	LAB BLANK	LAB BLANK	4C11092710.D	9/27/2011	16:40
09	LAB BLANK	LAB BLANK	4C11092711BL	9/27/2011	17:13
10	BIP-7 OIL 250,000	1109008-07	4C11092712.D	9/27/2011	17:36
11	BIP-7 AQUEOUS	1109008-07	4C11092713.D	9/27/2011	17:59
12	CCV WITH METH	B109064-BSD2	4C11092714BS	9/27/2011	18:23
13	CCV WITHOUT M	B109064-BSD3	4C11092715BS	9/27/2011	18:45

```
   Sequence Name: D:\Ctang\GCMS4 110926.S
         Comment: 1109008 - RCRA Blue Island Phenols
        Operator: CTANG
       Data Path: D:\CTANG\DATA\GCMS4_110926\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

   Method Sections To Run     On A Barcode Mismatch
    (X) Full Method             (X) Inject Anyway
    ( ) Reprocessing Only       ( ) Don't Inject

   ---------------------------------------------------------------------
   Line                  Sample Name/Misc Info
   ---------------------------------------------------------------------
   1   Type: BFB         BFB
       Vial: 1           LIMS # 1080114
       Method  : GCMS4 110926.M
       Datafile: 4C11092601BFB.D
       Bar Code:                   Samp Amt: 0          Multiplr: 0
       Area% Report     :per Method       Lib. Search Rep :per Method
       Quant Report     :per Method       Post-Quant Macro:per Method
       CR Database      :per Method       CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   2   Type: Calibration IC at 250 NG
       Vial: 2           LIMS # 1090912/1092601
       Method  : GCMS4 110926.M
       Datafile: 4C11092602IC3.D
       LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
       Bar Code:                   Samp Amt: 0          Multiplr: 0
       Area% Report     :per Method       Lib. Search Rep :per Method
       Quant Report     :per Method       Post-Quant Macro:per Method
       CR Database      :per Method       CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   3   Type: Calibration IC at 1,000 NG
       Vial: 3           LIMS # 1090912/1092601
       Method  : GCMS4 110926.M
       Datafile: 4C11092603IC6.D
       LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
       Bar Code:                   Samp Amt: 0          Multiplr: 0
       Area% Report     :per Method       Lib. Search Rep :per Method
       Quant Report     :per Method       Post-Quant Macro:per Method
       CR Database      :per Method       CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   4   Type: Calibration IC at 750 NG
       Vial: 4           LIMS # 1090912/1092601
       Method  : GCMS4 110926.M
       Datafile: 4C11092604IC5.D
       LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
       Bar Code:                   Samp Amt: 0          Multiplr: 0
       Area% Report     :per Method       Lib. Search Rep :per Method
       Quant Report     :per Method       Post-Quant Macro:per Method
       CR Database      :per Method       CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   5   Type: Calibration IC at 500 NG
       Vial: 5           LIMS # 1090912/1092601
       Method  : GCMS4 110926.M
       Datafile: 4C11092605IC4.D
       LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
       Bar Code:                   Samp Amt: 0          Multiplr: 0
       Area% Report     :per Method       Lib. Search Rep :per Method
       Quant Report     :per Method       Post-Quant Macro:per Method
       CR Database      :per Method       CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   6   Type: Calibration IC at 125 NG
       Vial: 6           LIMS # 1090912/1092601
       Method  : GCMS4 110926.M
       Datafile: 4C11092606IC2.D
       LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
       Bar Code:                   Samp Amt: 0          Multiplr: 0
       Area% Report     :per Method       Lib. Search Rep :per Method
```

```
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
 7  Type: Calibration IC at  25 NG
    Vial: 7            LIMS # 1090912/1092601
    Method  : GCMS4 110926.M
    Datafile: 4C11092607IC1.D
    LvlId:     UpdRF:No Upd UpdRT:No Upd UpdQI:No Upd
    Bar Code:                   Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
 8  Type: Sample       IC Check at 250 NG
    Vial: 8            LIMS # 1090605/1092602
    Method  : GCMS4 110926.M
    Datafile: 4C11092608ICC.D
    Bar Code:                   Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
 9  Type: Sample       B109064-BLK1
    Vial: 9            LIMS # 1080114
    Method  : GCMS4 110926.M
    Datafile: 4C11092609BLK.D
    Bar Code:                   Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
10  Type: Sample       B109064-BLK2
    Vial: 10           LIMS # 1080114, TCLP Filtration Blank
    Method  : GCMS4 110926.M
    Datafile: 4C11092610BLK.D
    Bar Code:                   Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
11  Type: Sample       1109008-01
    Vial: 11           1109008-01 Filtration Vial 1
    Method  : GCMS4 110926.M
    Datafile: 4C11092611.D
    Bar Code:                   Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
12  Type: Sample       1109008-02
    Vial: 12           1109008-02 Filtration Vial 1, 1:5 Dilution
    Method  : GCMS4 110926.M
    Datafile: 4C11092612.D
    Bar Code:                   Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
13  Type: Sample       1109008-03
    Vial: 13           1109008-03 Filtration Vial 1, 1:5 Dilution
    Method  : GCMS4 110926.M
    Datafile: 4C11092613.D
    Bar Code:                   Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
14  Type: Sample       1109008-04
    Vial: 14           1109008-04 Filtration Vial 1, 1:10 Dilution
    Method  : GCMS4 110926.M
    Datafile: 4C11092614.D
    Bar Code:                   Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method        Lib. Search Rep :per Method
```

```
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
15  Type: Sample       1109008-05
    Vial: 15           1109008-05 Filtration Vial 1, 1:10 Dilution
    Method  : GCMS4 110926.M
    Datafile: 4C11092615.D
    Bar Code:                    Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
16  Type: Sample       1109008-08
    Vial: 16           1109008-07 Aqueous 1, 1:10 Dilution
    Method  : GCMS4 110926.M
    Datafile: 4C11092616.D
    Bar Code:                    Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
17  Type: Sample       Lab Blank
    Vial: 17           Lab Blank
    Method  : GCMS4 110926.M
    Datafile: 4C11092617.D
    Bar Code:                    Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
18  Type: Sample       B109064-MS1
    Vial: 18           1109008-01, Filtrate Vial 2
    Method  : GCMS4 110926.M
    Datafile: 4C11092618MS.D
    Bar Code:                    Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
19  Type: Sample       B109064-MSD1
    Vial: 19           1109008-01, Filtrate Vial 3
    Method  : GCMS4 110926.M
    Datafile: 4C11092619MSD.D
    Bar Code:                    Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
20  Type: Sample       B109064-BSD1
    Vial: 20           B109064-BSD1
    Method  : GCMS4 110926.M
    Datafile: 4C11092620BSD.D
    Bar Code:                    Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method       Lib. Search Rep :per Method
    Quant Report     :per Method       Post-Quant Macro:per Method
    CR Database      :per Method       CR Spreadsheet  :per Method
-----------------------------------------------------------------------
```

4C092601.ssv (Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	1	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1

4C092602.ssv (Active Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	2	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
2	3	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
3	4	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
4	5	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
5	6	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
6	7	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1

4C092603.ssv (Active Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	8	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
2	9	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
3	10	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
4	11	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
5	12	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:5
6	13	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:5
7	14	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:10
8	15	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:10
9	16	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
10	17	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
11	18	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
12	19	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
13	20	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1

```
   Sequence Name: D:\Ctang\GCMS4 110927.S
         Comment: 1109008 - RCRA Blue Island Phenols
        Operator: CTANG
       Data Path: D:\CTANG\DATA\GCMS4_110927\
Instrument Control  Pre-Seq Cmd:
Data Analysis       Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis      Post-Seq Cmd:

   Method Sections To Run     On A Barcode Mismatch
    (X) Full Method             (X) Inject Anyway
    ( ) Reprocessing Only       ( ) Don't Inject

   ---------------------------------------------------------------------
   Line                  Sample Name/Misc Info
   ---------------------------------------------------------------------
   1   Type: BFB         BFB
       Vial: 1           LIMS # 1080114
       Method  : GCMS4 110926.M
       Datafile: 4C11092701BFB.D
       Bar Code:                   Samp Amt: 0          Multiplr: 0
       Area% Report    :per Method       Lib. Search Rep :per Method
       Quant Report    :per Method       Post-Quant Macro:per Method
       CR Database     :per Method       CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   2   Type: BFB         BFB
       Vial: 2           LIMS # 1080114
       Method  : GCMS4 110926.M
       Datafile: 4C11092702BFB.D
       Bar Code:                   Samp Amt: 0          Multiplr: 0
       Area% Report    :per Method       Lib. Search Rep :per Method
       Quant Report    :per Method       Post-Quant Macro:per Method
       CR Database     :per Method       CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   3   Type: Sample      B109064-BS2
       Vial: 3           LIMS # 1090912/1092601, 1% Methanol Added
       Method  : GCMS4 110926.M
       Datafile: 4C11092703CCV.D
       Bar Code:                   Samp Amt: 0          Multiplr: 0
       Area% Report    :per Method       Lib. Search Rep :per Method
       Quant Report    :per Method       Post-Quant Macro:per Method
       CR Database     :per Method       CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   4   Type: Sample      B109064-BLK3
       Vial: 4           LIMS # 1080114
       Method  : GCMS4 110926.M
       Datafile: 4C11092704BLK.D
       Bar Code:                   Samp Amt: 0          Multiplr: 0
       Area% Report    :per Method       Lib. Search Rep :per Method
       Quant Report    :per Method       Post-Quant Macro:per Method
       CR Database     :per Method       CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   5   Type: Sample      B109064-BS3
       Vial: 5           LIMS # 1090912/1092601, No Methanol Added
       Method  : GCMS4 110926.M
       Datafile: 4C11092705CCV.D
       Bar Code:                   Samp Amt: 0          Multiplr: 0
       Area% Report    :per Method       Lib. Search Rep :per Method
       Quant Report    :per Method       Post-Quant Macro:per Method
       CR Database     :per Method       CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   6   Type: Sample      1109008-08
       Vial: 6           1109008-07 Acqueous 10x20 Dilution
       Method  : GCMS4 110926.M
       Datafile: 4C11092706.D
       Bar Code:                   Samp Amt: 0          Multiplr: 0
       Area% Report    :per Method       Lib. Search Rep :per Method
       Quant Report    :per Method       Post-Quant Macro:per Method
       CR Database     :per Method       CR Spreadsheet  :per Method
   ---------------------------------------------------------------------
   7   Type: Sample      Lab Blank
       Vial: 7           LIMS # 1080114
```

```
    Method   : GCMS4 110926.M
    Datafile: 4C11092707BLK.D
    Bar Code:                    Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
8   Type: Sample       1109008-08
    Vial: 8            1109008-07 Acqueous 10x250 Dilution
    Method   : GCMS4 110926.M
    Datafile: 4C11092708.D
    Bar Code:                    Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
9   Type: Sample       1109008-09
    Vial: 9            1109008-07 Oil 100x10x20
    Method   : GCMS4 110926.M
    Datafile: 4C11092709.D
    Bar Code:                    Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
10  Type: Sample       Lab Blank
    Vial: 10           LIMS # 1080114
    Method   : GCMS4 110926.M
    Datafile: 4C11092710.D
    Bar Code:                    Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
11  Type: Sample       Lab Blank
    Vial: 11           LIMS # 1080114
    Method   : GCMS4 110926.M
    Datafile: 4C11092711BLK.D
    Bar Code:                    Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
12  Type: Sample       1109008-09
    Vial: 12           1109008-07 Oil 100x10x250
    Method   : GCMS4 110926.M
    Datafile: 4C11092712.D
    Bar Code:                    Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
13  Type: Sample       1109008-08
    Vial: 13           1109008-07 Acqueous 10x10x100 Dilution
    Method   : GCMS4 110926.M
    Datafile: 4C11092713.D
    Bar Code:                    Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
14  Type: Sample       B109064-BSD2
    Vial: 14           LIMS # 1090912/1092601, 1% Methanol Added
    Method   : GCMS4 110926.M
    Datafile: 4C11092714BSD.D
    Bar Code:                    Samp Amt: 0          Multiplr: 0
    Area% Report     :per Method        Lib. Search Rep :per Method
    Quant Report     :per Method        Post-Quant Macro:per Method
    CR Database      :per Method        CR Spreadsheet  :per Method
-----------------------------------------------------------------------
15  Type: Sample       B109064-BSD3
    Vial: 15           LIMS # 1090912/1092601, No Methanol Added
    Method   : GCMS4_110926.M
```

Datafile: 4C11092715BSD.D
Bar Code: Samp Amt.: 0 Multiplr: 0
Area% Report :per Method Lib. Search Rep :per Method
Quant Report :per Method Post-Quant Macro:per Method
CR Database :per Method CR Spreadsheet :per Method

4C092701.ssv (Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	1	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
2	2	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1

4C092702.ssv (Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	3	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
2	4	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1

4C092703.ssv (Active Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	5	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1

4C092704.ssv (Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	6	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:20

4C092705.ssv (Active Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	7	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
2	8	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:250
3	9	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:20
4	10	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1

4C092706.ssv (Active Schedule)

SOLATek 72 Schedule

Line	Vial	Method	Type	Standard 1	Standard 2	Standard 3	Sample Volume	Dilution
1	11	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
2	12	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:250
3	13	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:100
4	14	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1
5	15	WATER5.msvw	Water	0 µL	0 µL	5 µL	5 mL	1:1

Response Factor Report GCMS04

Method Path : D:\CTANG\METHODS\
Method File : GCMS4_110926.M
Title :
Last Update : Mon Sep 26 14:48:09 2011
Response Via : Initial Calibration

Calibration Files
1 =4C11092607IC1.D 2 =4C11092606IC2.D 3 =4C11092602IC3.D 4 =4C11092605IC4.D
5 =4C11092604IC5.D 6 =4C11092603IC6.D

		Compound	1	2	3	4	5	6	Avg	%RSD
1)	I	FLUOROBENZENE	----------ISTD----------							
2)	T	Dichlorodifluo...	0.246	0.355	0.366	0.364	0.432	0.433	0.366	18.63
3)	T	Chloromethane	0.334	0.399	0.386	0.397	0.451	0.429	0.399	10.03
4)	T	Vinyl chloride	0.198	0.247	0.235	0.168	0.137		0.197	23.25
5)	T	Bromomethane	0.225	0.222	0.153	0.172	0.175	0.147	0.182	18.30
6)	T	Chloroethane	0.150	0.203	0.204	0.207	0.229	0.220	0.202	13.58
7)	T	Trichlorofluor...	0.345	0.503	0.505	0.516	0.598	0.590	0.509	17.84
8)	T	Acrolein	0.004	0.004	0.004	0.003	0.004	0.004	0.004	11.48
9)	M	1,1-Dichloroet...	0.169	0.223	0.200	0.200	0.271	0.245	0.218	16.64
10)	T	Acetone	0.094	0.113	0.095	0.105	0.127	0.116	0.108	12.06
11)	T	Carbon disulfide	0.611	0.661	0.598	0.600	0.800	0.732	0.667	12.42
12)	M	Methylene chlo...	0.240	0.303	0.269	0.278	0.355	0.329	0.296	14.19
13)	T	Acrylonitrile	0.135	0.157	0.133	0.149	0.180	0.161	0.153	11.37
14)	M	trans-1,2-Dich...	0.213	0.258	0.214	0.228	0.300	0.273	0.248	14.18
15)	M	1,1-Dichloroet...	0.430	0.559	0.497	0.515	0.662	0.599	0.544	14.97
16)	T	2-Butanone	0.111	0.143	0.116	0.141	0.169	0.155	0.139	16.28
17)	M	cis-1,2-Dichlo...	0.223	0.290	0.248	0.264	0.334	0.317	0.279	15.10
18)	M	2,2-Dichloropr...	0.224	0.308	0.271	0.288	0.371	0.334	0.299	17.06
19)	M	Bromochloromet...	0.111	0.139	0.128	0.131	0.162	0.149	0.137	12.78
20)	M	Chloroform	0.390	0.516	0.457	0.478	0.610	0.557	0.501	15.47
21)	M	1,1,1-Trichlor...	0.280	0.401	0.360	0.366	0.495	0.458	0.393	19.42
22)	M	1,1-Dichloropr...	0.251	0.338	0.294	0.310	0.413	0.392	0.333	18.35
23)	M	Carbon tetrach...	0.128	0.197	0.167	0.193	0.269	0.233	0.198	24.87
24)	S	BENZENE-D6	0.974	1.046	1.105	1.246	1.672	1.675	1.286	24.31
25)	M	1,2-Dichloroet...	0.310	0.381	0.359	0.365	0.469	0.482	0.394	17.07
26)	M	Benzene	0.852	1.065	0.951	0.978	1.241	1.124	1.035	13.33
27)	M	Trichloroethene	0.211	0.248	0.233	0.246	0.315	0.283	0.256	14.56
28)	M	1,2-Dichloropr...	0.228	0.279	0.250	0.256	0.309	0.286	0.268	10.80
29)	M	Dibromomethane	0.150	0.188	0.161	0.164	0.189	0.173	0.171	9.07
30)	M	Bromodichlorom...	0.171	0.249	0.231	0.258	0.328	0.306	0.257	21.76
31)	T	2-Chloroethyl ...		0.047		0.043			0.045	6.97
32)	M	cis-1,3-Dichlo...	0.166	0.174	0.166	0.167	0.217	0.216	0.184	13.62
33)	T	4-Methyl-2-pen...	0.284	0.371	0.310	0.348	0.408	0.362	0.347	12.84
34)	S	TOLUENE-D8	0.996	1.026	1.044	1.054	1.141	1.057	1.053	4.60
35)	M	Toluene	1.072	1.326	1.128	1.138	1.410	1.253	1.221	10.71
36)	M	trans-1,3-Dich...	0.160	0.185	0.164	0.157	0.196	0.191	0.175	9.68
37)	M	1,1,2-Trichlor...	0.212	0.251	0.216	0.205	0.239	0.218	0.224	7.90
38)	M	1,3-Dichloropr...	0.362	0.398	0.348	0.323	0.387	0.355	0.362	7.54
39)	M	Tetrachloroethene	0.305	0.339	0.296	0.294	0.376	0.336	0.324	9.85
40)	T	2-Hexanone	0.212	0.260	0.212	0.239	0.280	0.247	0.242	11.11
41)	M	Dibromochlorom...	0.148	0.182	0.173	0.161	0.189	0.172	0.171	8.45
42)	M	1,2-Dibromoethane	0.218	0.257	0.203	0.200	0.213	0.179	0.212	12.39
43)	I	CHLOROBENZENE-D5	----------ISTD----------							
44)	M	Chlorobenzene	1.555	1.682	1.324	1.260	1.196	1.024	1.340	17.98
45)	M	1,1,1,2-Tetrac...	0.367	0.516	0.436	0.432	0.431	0.378	0.427	12.42
46)	M	Ethylbenzene	2.365	2.843	2.303	2.238	2.197	1.860	2.301	13.85
47)	M	m- &/or p-Xylene	1.879	2.370	1.875	1.800	1.712	1.397	1.839	17.16
48)	M	o-Xylene	1.906	2.395	1.923	1.841	1.770	1.511	1.891	15.28
49)	M	Styrene	1.352	1.756	1.419	1.292	1.241	1.097	1.359	16.39
50)	M	Bromoform	0.248	0.334	0.308	0.304	0.283	0.244	0.287	12.49
51)	M	Isopropylbenzene	1.987	2.589	2.080	2.038	1.961	1.690	2.057	14.30
52)	S	p-BROMOFLUOROB...	0.844	0.855	0.855	0.738	0.660	0.596	0.758	14.73
53)	M	1,1,2,2-Tetrac...	0.624	0.735	0.570	0.557	0.518	0.427	0.572	18.12
54)	M	1,2,3-Trichlor...	0.523	0.646	0.499	0.514	0.481	0.416	0.513	14.67
55)	M	Bromobenzene	0.687	0.796	0.624	0.605	0.587	0.497	0.633	15.93
56)	M	n-Propylbenzene	2.421	3.079	2.539	2.439	2.440	2.102	2.504	12.75
57)	M	2-Chlorotoluene	1.704	2.083	1.646	1.638	1.606	1.409	1.681	13.16

Method Path : D:\CTANG\METHODS\
Method File : GCMS4_110926.M
Title :

58)	M	4-Chlorotoluene	1.814	2.204	1.708	1.730	1.705	1.469	1.772	13.61
59)	M	1,3,5-Trimethy...	1.875	2.442	1.898	1.855	1.836	1.586	1.915	14.72
60)	M	tert-Butylbenzene	1.439	1.897	1.510	1.476	1.453	1.249	1.504	14.17
61)	M	1,2,4-Trimethy...	1.886	2.501	1.941	1.975	1.883	1.609	1.966	14.89
62)	M	sec-Butylbenzene	2.506	3.099	2.344	2.434	2.405	1.950	2.456	15.10
63)	M	p-Isopropyltol...	1.725	2.452	1.907	1.983	2.000	1.598	1.944	15.12
64)	M	1,3-Dichlorobe...	1.281	1.475	1.128	1.164	1.129	0.912	1.182	15.83
65)	M	1,4-Dichlorobe...	1.588	1.614	1.201	1.280	1.231	0.984	1.316	18.45
66)	I	1,2-DICHLOROBENZEN...	----------ISTD----------							
67)	M	n-Butylbenzene	1.981	2.645	2.051	2.270	2.576	2.393	2.319	11.66
68)	M	1,2-Dichlorobe...	1.608	1.738	1.336	1.471	1.612	1.503	1.544	9.01
69)	M	1,2-Dibromo-3-...	0.130	0.169	0.143	0.167	0.191	0.198	0.167	15.75
70)	M	1,2,4-Trichlor...	0.793	0.866	0.784	0.825	0.940	0.959	0.861	8.65
71)	M	Hexachlorobuta...	0.540	0.508	0.379	0.393	0.450	0.445	0.453	13.88
72)	M	Naphthalene	1.699	2.685	1.949	2.342	2.543	2.506	2.287	16.76
73)	M	1,2,3-Trichlor...	0.928	1.016	0.767	0.834	0.913	0.914	0.895	9.54

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092602IC3.D
Acq On : 26 Sep 2011 12:27
Operator : CTANG
Sample : IC at 250 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 26 13:55:52 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) FLUOROBENZENE	4.143	96	1667865	50.00	ng		0.00
43) CHLOROBENZENE-D5	5.794	82	966339	50.00	ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.024	152	812841	50.00	ng		0.00
System Monitoring Compounds							
24) BENZENE-D6	3.973	84	1842872	43.35	ng		0.00
34) TOLUENE-D8	5.128	98	1741172	49.81	ng		0.00
52) p-BROMOFLUOROBENZENE	6.331	95	826108	55.37	ng		0.00
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.106	85	3052617	262.91	ng		98
3) Chloromethane	1.172	50	3215000	227.24	ng		99
4) Vinyl chloride	1.234	62	1959079	342.83	ng		97
5) Bromomethane	1.385	94	1278874	217.05	ng		100
6) Chloroethane	1.440	64	1702643	242.82	ng		98
7) Trichlorofluoromethane	1.675	101	4208110	232.85	ng		100
8) Acrolein	1.676	56	154620	631.15	ng	#	73
9) 1,1-Dichloroethene	1.927	96	1664858	214.16	ng		99
10) Acetone	1.732	43	3963554	839.70	ng		99
11) Carbon disulfide	2.112	76	4986421	223.18	ng		100
12) Methylene chloride	2.006	84	2244376	218.35	ng		99
13) Acrylonitrile	1.964	53	5561951	879.17	ng		98
14) trans-1,2-Dichloroethene	2.403	96	1787499	200.12	ng		95
15) 1,1-Dichloroethane	2.572	63	4144039	213.27	ng		98
16) 2-Butanone	2.940	43	4818799	765.97	ng		99
17) cis-1,2-Dichloroethene	3.033	96	2071219	200.76	ng		95
18) 2,2-Dichloropropane	3.261	77	2258253	245.28	ng		98
19) Bromochloromethane	3.160	128	1068191	216.45	ng		98
20) Chloroform	3.209	83	3814883	213.59	ng		100
21) 1,1,1-Trichloroethane	3.738	97	3003597	215.32	ng		98
22) 1,1-Dichloropropene	3.870	75	2450545	203.95	ng		99
23) Carbon tetrachloride	3.966	117	1390249	230.30	ng		98
25) 1,2-Dichloroethane	3.681	62	2992916	192.88	ng		96
26) Benzene	4.000	78	7932858	207.23	ng		99
27) Trichloroethene	4.388	130	1942974	194.39	ng		100
28) 1,2-Dichloropropane	4.360	63	2088758	211.52	ng		97
29) Dibromomethane	4.334	174	1341391	212.55	ng		99
30) Bromodichloromethane	4.412	83	1925282	230.38	ng		97
32) cis-1,3-Dichloropropene	4.776	75	1385796	235.16	ng		97
33) 4-Methyl-2-pentanone	4.858	43	5165953	349.89	ng		99
35) Toluene	5.162	91	9404891	218.00	ng		98
36) trans-1,3-Dichloropropene	5.005	75	1364475	249.30	ng		98
37) 1,1,2-Trichloroethane	5.072	97	1803235	225.36	ng		98
38) 1,3-Dichloropropane	5.190	76	2899257	233.39	ng		100
39) Tetrachloroethene	5.503	166	2470623	219.60	ng		99
40) 2-Hexanone	5.290	43	3538645	333.29	ng		98
41) Dibromochloromethane	5.304	129	1442278	306.17	ng		99
42) 1,2-Dibromoethane	5.416	107	1696317	227.80	ng		100
44) Chlorobenzene	5.809	112	6398225	230.40	ng		98
45) 1,1,1,2-Tetrachloroethane	5.778	131	2106446	261.45	ng		100
46) Ethylbenzene	5.905	91	11125587	228.85	ng		100
47) m- &/or p-Xylene	5.993	91	18114805	463.68	ng		100
48) o-Xylene	6.162	91	9293527	231.13	ng		100
49) Styrene	6.133	104	6857726	242.03	ng		95
50) Bromoform	6.024	173	1487159	313.34	ng		96

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092602IC3.D
Acq On : 26 Sep 2011 12:27
Operator : CTANG
Sample : IC at 250 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 26 13:55:52 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration

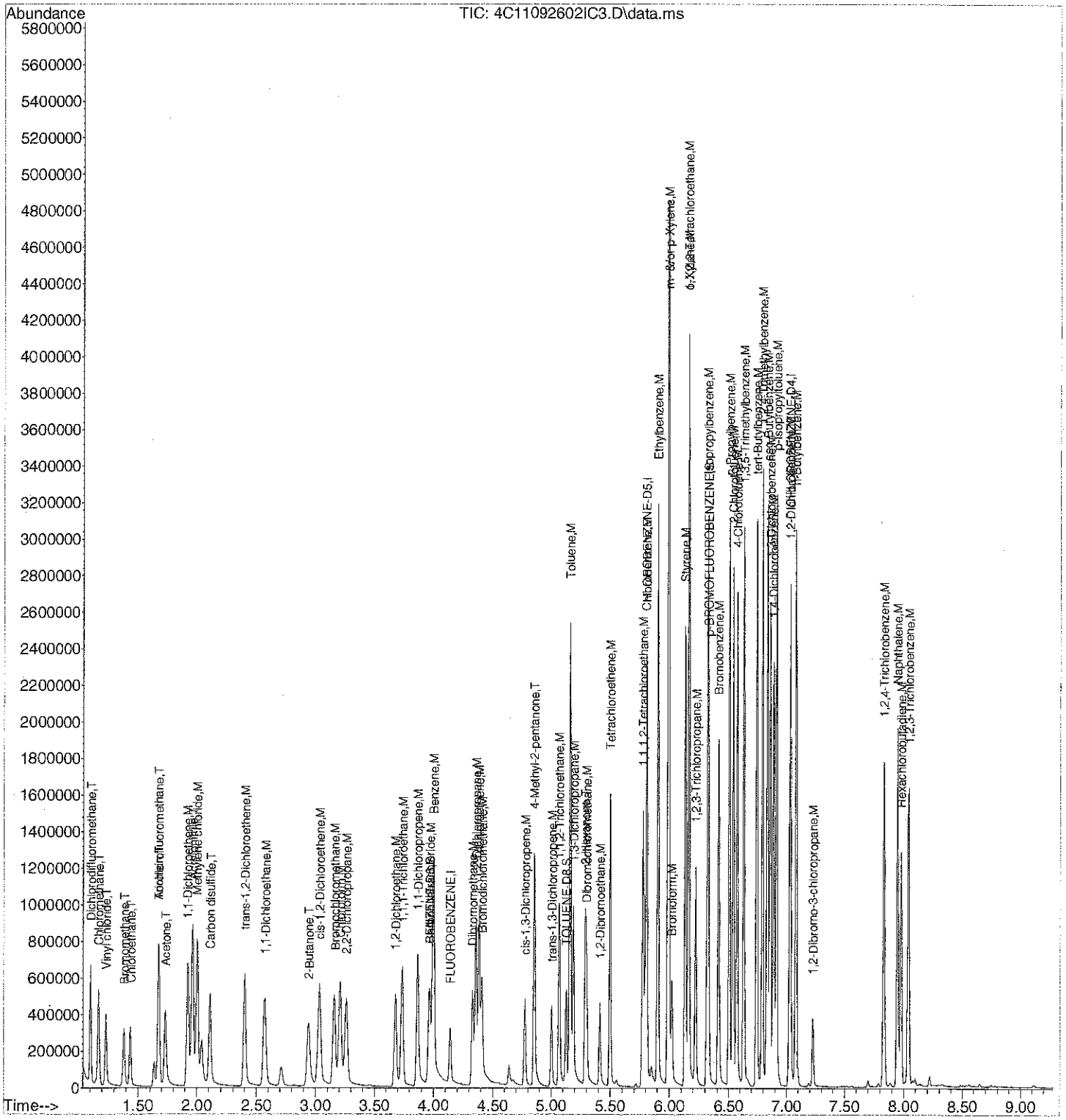
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.320	105	10052059	226.74 ng	99
53) 1,1,2,2-Tetrachloroethane	6.161	83	2753461	237.83 ng	97
54) 1,2,3-Trichloropropane	6.221	75	2411416	198.99 ng	99
55) Bromobenzene	6.414	156	3014866	222.65 ng	99
56) n-Propylbenzene	6.506	91	12269159	231.58 ng	98
57) 2-Chlorotoluene	6.539	91	7953536	251.65 ng	94
58) 4-Chlorotoluene	6.573	91	8252714	223.38 ng	100
59) 1,3,5-Trimethylbenzene	6.634	105	9169744	230.01 ng	99
60) tert-Butylbenzene	6.745	119	7296963	226.65 ng	99
61) 1,2,4-Trimethylbenzene	6.794	105	9376496	231.45 ng	99
62) sec-Butylbenzene	6.836	105	11323082	228.68 ng	99
63) p-Isopropyltoluene	6.915	119	9211967	232.06 ng	99
64) 1,3-Dichlorobenzene	6.861	146	5450331	227.37 ng	98
65) 1,4-Dichlorobenzene	6.889	146	5803083	237.06 ng	99
67) n-Butylbenzene	7.082	91	8335795	208.03 ng	100
68) 1,2-Dichlorobenzene	7.033	146	5427854	200.99 ng	99
69) 1,2-Dibromo-3-chloropr...	7.230	157	581593	188.37 ng	96
70) 1,2,4-Trichlorobenzene	7.833	180	3186304	219.80 ng	98
71) Hexachlorobutadiene	7.979	225	1542284	208.61 ng	100
72) Naphthalene	7.948	128	7922223	178.45 ng	100
73) 1,2,3-Trichlorobenzene	8.042	180	3116482	196.81 ng	99

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092602IC3.D
Acq On : 26 Sep 2011 12:27
Operator : CTANG
Sample : IC at 250 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 26 13:55:52 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092603IC6.D
Acq On : 26 Sep 2011 12:48
Operator : CTANG
Sample : IC at 1,000 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 26 13:58:25 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) FLUOROBENZENE	4.141	96	1667389	50.00	ng	0.00
43) CHLOROBENZENE-D5	5.794	82	1365428	50.00	ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.025	152	844884	50.00	ng	0.00
System Monitoring Compounds						
24) BENZENE-D6	3.967	84	2792471	65.70	ng	0.00
34) TOLUENE-D8	5.128	98	1762211	50.43	ng	0.00
52) p-BROMOFLUOROBENZENE	6.332	95	813982	38.61	ng	0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.100	85	14445827	1244.51	ng	98
3) Chloromethane	1.167	50	14301517	1011.12	ng	99
4) Vinyl chloride	1.223	62	3507493	613.97	ng	96
5) Bromomethane	1.377	94	4904234	832.59	ng	99
6) Chloroethane	1.432	64	7339021	1046.95	ng	98
7) Trichlorofluoromethane	1.668	101	19668148	1088.61	ng	100
8) Acrolein	1.671	56	624452	2549.71	ng	84
9) 1,1-Dichloroethene	1.920	96	8165830	1050.72	ng	99
10) Acetone	1.728	43	19401107	4111.42	ng	99
11) Carbon disulfide	2.104	76	24421742	1093.38	ng	100
12) Methylene chloride	2.000	84	10967114	1067.27	ng	97
13) Acrylonitrile	1.960	53	26875971	4249.45	ng	99
14) trans-1,2-Dichloroethene	2.397	96	9116060	1020.88	ng	99
15) 1,1-Dichloroethane	2.567	63	19983542	1028.76	ng	99
16) 2-Butanone	2.938	43	25924956	4122.08	ng	100
17) cis-1,2-Dichloroethene	3.028	96	10559349	1023.77	ng	98
18) 2,2-Dichloropropane	3.257	77	11122199	1208.40	ng	97
19) Bromochloromethane	3.155	128	4960069	1005.35	ng	100
20) Chloroform	3.205	83	18577241	1040.43	ng	100
21) 1,1,1-Trichloroethane	3.735	97	15258511	1094.13	ng	98
22) 1,1-Dichloropropene	3.867	75	13060708	1087.31	ng	98
23) Carbon tetrachloride	3.963	117	7774877	1288.30	ng	99
25) 1,2-Dichloroethane	3.678	62	16078556	1036.47	ng	100
26) Benzene	3.997	78	37495505	979.78	ng	95
27) Trichloroethene	4.386	130	9443169	945.02	ng	100
28) 1,2-Dichloropropane	4.359	63	9541259	966.49	ng	97
29) Dibromomethane	4.332	174	5768188	914.27	ng	99
30) Bromodichloromethane	4.410	83	10215295	1222.74	ng	99
32) cis-1,3-Dichloropropene	4.775	75	7202623	1222.56	ng	100
33) 4-Methyl-2-pentanone	4.858	43	24161752	1636.94	ng	97
35) Toluene	5.161	91	41772478	968.55	ng	100
36) trans-1,3-Dichloropropene	5.005	75	6375567	1165.19	ng	98
37) 1,1,2-Trichloroethane	5.072	97	7285486	910.77	ng	99
38) 1,3-Dichloropropane	5.190	76	11841878	953.52	ng	96
39) Tetrachloroethene	5.503	166	11220326	997.58	ng	100
40) 2-Hexanone	5.291	43	16471206	1551.81	ng	96
41) Dibromochloromethane	5.303	129	5719469	1214.47	ng	98
42) 1,2-Dibromoethane	5.416	107	5957121	800.21	ng	99
44) Chlorobenzene	5.809	112	27973365	712.90	ng	100
45) 1,1,1,2-Tetrachloroethane	5.778	131	10325985	907.04	ng	100
46) Ethylbenzene	5.905	91	50795258	739.45	ng	100
47) m- &/or p-Xylene	5.993	91	76299802	1382.19	ng	99
48) o-Xylene	6.163	91	41250353	726.03	ng	99
49) Styrene	6.133	104	29968704	748.53	ng	98
50) Bromoform	6.024	173	6650427	991.67	ng	99

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092603IC6.D
Acq On : 26 Sep 2011 12:48
Operator : CTANG
Sample : IC at 1,000 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 26 13:58:25 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration

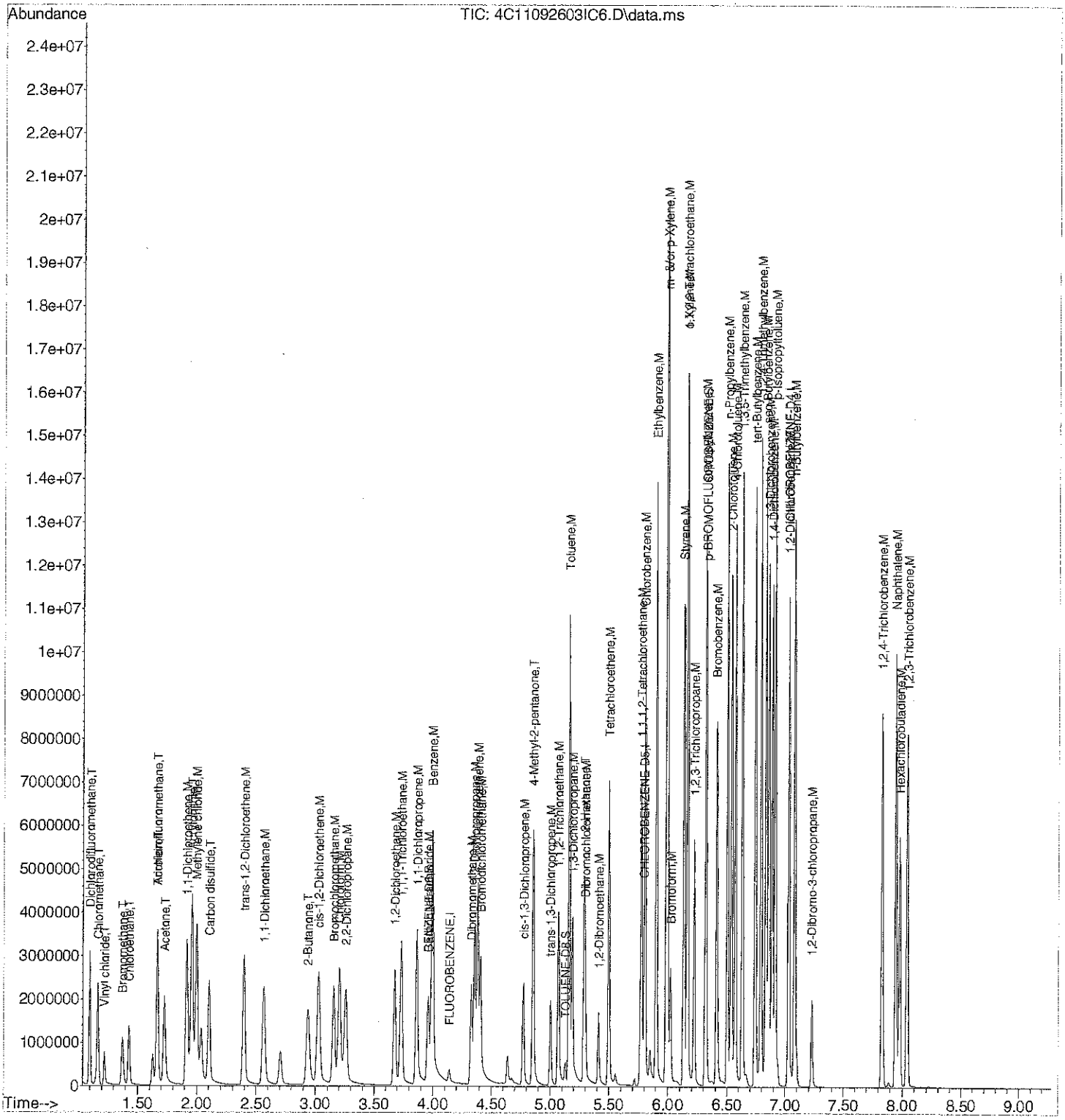
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.321	105	46141304	736.59 ng	98
53) 1,1,2,2-Tetrachloroethane	6.162	83	11647793	712.01 ng	99
54) 1,2,3-Trichloropropane	6.222	75	11351715	662.94 ng	98
55) Bromobenzene	6.414	156	13582092	709.86 ng	96
56) n-Propylbenzene	6.507	91	57407497	766.85 ng	100
57) 2-Chlorotoluene	6.540	91	38476520	861.59 ng	92
58) 4-Chlorotoluene	6.574	91	40107835	768.31 ng	99
59) 1,3,5-Trimethylbenzene	6.634	105	43322247	769.07 ng	99
60) tert-Butylbenzene	6.745	119	34114598	749.92 ng	99
61) 1,2,4-Trimethylbenzene	6.795	105	43927122	767.37 ng	99
62) sec-Butylbenzene	6.837	105	53265220	761.34 ng	99
63) p-Isopropyltoluene	6.916	119	43631880	777.88 ng	99
64) 1,3-Dichlorobenzene	6.862	146	24903634	735.24 ng	99
65) 1,4-Dichlorobenzene	6.890	146	26875271	776.97 ng	99
67) n-Butylbenzene	7.082	91	40443116	971.04 ng	100
68) 1,2-Dichlorobenzene	7.034	146	25389446	904.52 ng	100
69) 1,2-Dibromo-3-chloropr...	7.231	157	3337935	1040.08 ng	97
70) 1,2,4-Trichlorobenzene	7.834	180	16211237	1075.88 ng	98
71) Hexachlorobutadiene	7.980	225	7516410	978.12 ng	99
72) Naphthalene	7.947	128	42347063	917.69 ng	99
73) 1,2,3-Trichlorobenzene	8.042	180	15436508	937.88 ng	99

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092603IC6.D
Acq On : 26 Sep 2011 12:48
Operator : CTANG
Sample : IC at 1,000 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 26 13:58:25 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092604IC5.D
Acq On : 26 Sep 2011 13:09
Operator : CTANG
Sample : IC at 750 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 26 14:01:42 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.141	96	1578951	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.795	82	1241437	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.025	152	892959	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.969	84	2639260	65.58 ng	0.00
34) TOLUENE-D8	5.128	98	1800893	54.42 ng	0.00
52) p-BROMOFLUOROBENZENE	6.332	95	819953	42.78 ng	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.100	85	10227310	930.43 ng	99
3) Chloromethane	1.166	50	10679537	797.34 ng	100
4) Vinyl chloride	1.224	62	3253904	601.49 ng	96
5) Bromomethane	1.377	94	4145761	743.25 ng	98
6) Chloroethane	1.432	64	5421237	816.69 ng	98
7) Trichlorofluoromethane	1.668	101	14151800	827.16 ng	99
8) Acrolein	1.670	56	527338	2273.79 ng	83
9) 1,1-Dichloroethene	1.920	96	6408391	870.77 ng	100
10) Acetone	1.727	43	15091396	3377.24 ng	100
11) Carbon disulfide	2.104	76	18952874	896.06 ng	100
12) Methylene chloride	2.000	84	8405908	863.84 ng	97
13) Acrylonitrile	1.959	53	21262827	3550.25 ng	99
14) trans-1,2-Dichloroethene	2.397	96	7108633	840.66 ng	98
15) 1,1-Dichloroethane	2.567	63	15668966	851.82 ng	99
16) 2-Butanone	2.937	43	20045359	3365.74 ng	98
17) cis-1,2-Dichloroethene	3.027	96	7911345	810.00 ng	98
18) 2,2-Dichloropropane	3.257	77	8793543	1008.91 ng	98
19) Bromochloromethane	3.155	128	3834901	820.83 ng	96
20) Chloroform	3.205	83	14458085	855.09 ng	99
21) 1,1,1-Trichloroethane	3.735	97	11713071	886.94 ng	99
22) 1,1-Dichloropropene	3.867	75	9775095	859.36 ng	97
23) Carbon tetrachloride	3.964	117	6368068	1114.30 ng	100
25) 1,2-Dichloroethane	3.678	62	11104037	755.89 ng	97
26) Benzene	3.998	78	29396610	811.17 ng	95
27) Trichloroethene	4.387	130	7459892	788.36 ng	99
28) 1,2-Dichloropropane	4.359	63	7328414	783.92 ng	98
29) Dibromomethane	4.333	174	4474468	748.93 ng	99
30) Bromodichloromethane	4.410	83	7759036	980.75 ng	99
32) cis-1,3-Dichloropropene	4.775	75	5135619	920.54 ng	100
33) 4-Methyl-2-pentanone	4.858	43	19323706	1382.49 ng	98
35) Toluene	5.162	91	33384914	817.43 ng	100
36) trans-1,3-Dichloropropene	5.005	75	4631828	893.92 ng	98
37) 1,1,2-Trichloroethane	5.072	97	5669821	748.49 ng	98
38) 1,3-Dichloropropane	5.190	76	9170887	779.81 ng	97
39) Tetrachloroethene	5.503	166	8899339	835.54 ng	100
40) 2-Hexanone	5.291	43	13268022	1320.04 ng	97
41) Dibromochloromethane	5.304	129	4467200	1001.69 ng	99
42) 1,2-Dibromoethane	5.417	107	5035951	714.36 ng	99
44) Chlorobenzene	5.810	112	22274621	624.36 ng	99
45) 1,1,1,2-Tetrachloroethane	5.778	131	8019532	774.80 ng	100
46) Ethylbenzene	5.905	91	40902557	654.91 ng	100
47) m- &/or p-Xylene	5.993	91	63772680	1270.64 ng	100
48) o-Xylene	6.163	91	32958398	638.03 ng	99
49) Styrene	6.133	104	23104060	634.71 ng	97
50) Bromoform	6.024	173	5275963	865.30 ng	99

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092604IC5.D
Acq On : 26 Sep 2011 13:09
Operator : CTANG
Sample : IC at 750 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 26 14:01:42 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration

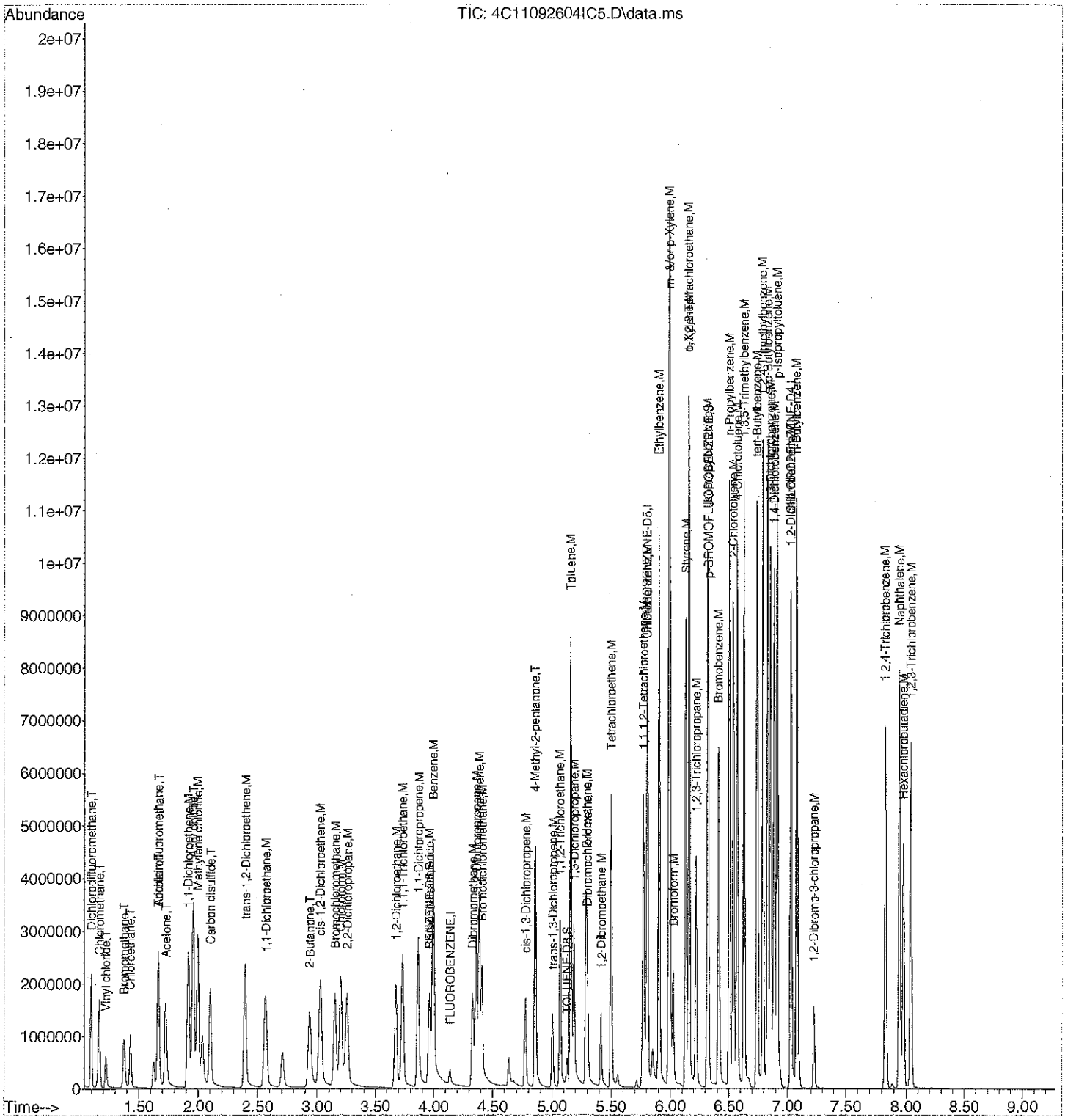
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.321	105	36514911	641.14 ng	100
53) 1,1,2,2-Tetrachloroethane	6.162	83	9637358	647.96 ng	97
54) 1,2,3-Trichloropropane	6.222	75	8965725	575.89 ng	99
55) Bromobenzene	6.414	156	10932247	628.44 ng	99
56) n-Propylbenzene	6.507	91	45437048	667.57 ng	99
57) 2-Chlorotoluene	6.540	91	29913084	736.73 ng	93
58) 4-Chlorotoluene	6.574	91	31752302	669.00 ng	99
59) 1,3,5-Trimethylbenzene	6.634	105	34188023	667.53 ng	96
60) tert-Butylbenzene	6.746	119	27065990	654.40 ng	99
61) 1,2,4-Trimethylbenzene	6.795	105	35058865	673.62 ng	99
62) sec-Butylbenzene	6.837	105	44785573	704.07 ng	99
63) p-Isopropyltoluene	6.916	119	37242350	730.28 ng	99
64) 1,3-Dichlorobenzene	6.861	146	21027056	682.79 ng	99
65) 1,4-Dichlorobenzene	6.890	146	22920383	728.81 ng	99
67) n-Butylbenzene	7.082	91	34504707	783.86 ng	100
68) 1,2-Dichlorobenzene	7.035	146	21589370	727.73 ng	99
69) 1,2-Dibromo-3-chloropr...	7.231	157	2564575	756.09 ng	99
70) 1,2,4-Trichlorobenzene	7.833	180	12591259	790.65 ng	99
71) Hexachlorobutadiene	7.980	225	6033291	742.85 ng	98
72) Naphthalene	7.948	128	34063364	698.44 ng	99
73) 1,2,3-Trichlorobenzene	8.043	180	12225655	702.80 ng	98

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092604IC5.D
Acq On : 26 Sep 2011 13:09
Operator : CTANG
Sample : IC at 750 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 26 14:01:42 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092605IC4.D
Acq On : 26 Sep 2011 13:31
Operator : CTANG
Sample : IC at 500 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 26 13:40:21 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.141	96	1758516	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.794	82	1076093	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.026	152	870264	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.970	84	2191570	48.89 ng		0.00
34) TOLUENE-D8	5.128	98	1854122	50.31 ng		0.00
52) p-BROMOFLUOROBENZENE	6.332	95	793680	47.77 ng		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.099	85	6406136	523.29 ng		99
3) Chloromethane	1.166	50	6986031	468.32 ng		100
4) Vinyl chloride	1.226	62	2946042	488.97 ng		97
5) Bromomethane	1.378	94	3030718	487.86 ng		99
6) Chloroethane	1.433	64	3645874	493.15 ng		99
7) Trichlorofluoromethane	1.668	101	9079775	476.51 ng		99
8) Acrolein	1.670	56	277153	1073.01 ng		84
9) 1,1-Dichloroethene	1.920	96	3517382	429.14 ng		98
10) Acetone	1.726	43	9215017	1851.62 ng		99
11) Carbon disulfide	2.105	76	10557628	448.18 ng		99
12) Methylene chloride	2.000	84	4882406	450.51 ng		97
13) Acrylonitrile	1.958	53	13128564	1968.23 ng		99
14) trans-1,2-Dichloroethene	2.397	96	4017092	426.55 ng	#	49
15) 1,1-Dichloroethane	2.567	63	9062273	442.35 ng		99
16) 2-Butanone	2.936	43	12407632	1870.59 ng		94
17) cis-1,2-Dichloroethene	3.028	96	4651072	427.57 ng		98
18) 2,2-Dichloropropane	3.257	77	5057895	521.05 ng		96
19) Bromochloromethane	3.155	128	2311120	444.16 ng		96
20) Chloroform	3.205	83	8400801	446.11 ng		99
21) 1,1,1-Trichloroethane	3.735	97	6432580	437.35 ng		98
22) 1,1-Dichloropropene	3.867	75	5442719	429.63 ng		96
23) Carbon tetrachloride	3.963	117	3395579	533.49 ng		99
25) 1,2-Dichloroethane	3.679	62	6423377	392.61 ng		96
26) Benzene	3.998	78	17199543	426.14 ng		95
27) Trichloroethene	4.387	130	4334599	411.30 ng		100
28) 1,2-Dichloropropane	4.359	63	4506943	432.88 ng		97
29) Dibromomethane	4.333	174	2882060	433.14 ng		99
30) Bromodichloromethane	4.411	83	4534415	514.63 ng		100
32) cis-1,3-Dichloropropene	4.776	75	2933189	472.08 ng		99
33) 4-Methyl-2-pentanone	4.858	43	12223422	785.21 ng		98
35) Toluene	5.162	91	20003877	439.78 ng		100
36) trans-1,3-Dichloropropene	5.005	75	2764190	479.00 ng		99
37) 1,1,2-Trichloroethane	5.072	97	3606485	427.49 ng		99
38) 1,3-Dichloropropane	5.190	76	5679944	433.66 ng		97
39) Tetrachloroethene	5.503	166	5164388	435.36 ng		100
40) 2-Hexanone	5.290	43	8412851	751.53 ng		98
41) Dibromochloromethane	5.304	129	2836205	571.03 ng		99
42) 1,2-Dibromoethane	5.416	107	3509522	447.00 ng		100
44) Chlorobenzene	5.809	112	13556900	438.39 ng		99
45) 1,1,1,2-Tetrachloroethane	5.777	131	4650294	518.32 ng		97
46) Ethylbenzene	5.905	91	24084267	444.87 ng		100
47) m- &/or p-Xylene	5.993	91	38743488	890.56 ng		99
48) o-Xylene	6.163	91	19813829	442.50 ng		100
49) Styrene	6.133	104	13900661	440.55 ng		98
50) Bromoform	6.024	173	3272724	619.22 ng		99

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092605IC4.D
Acq On : 26 Sep 2011 13:31
Operator : CTANG
Sample : IC at 500 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 26 13:40:21 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration

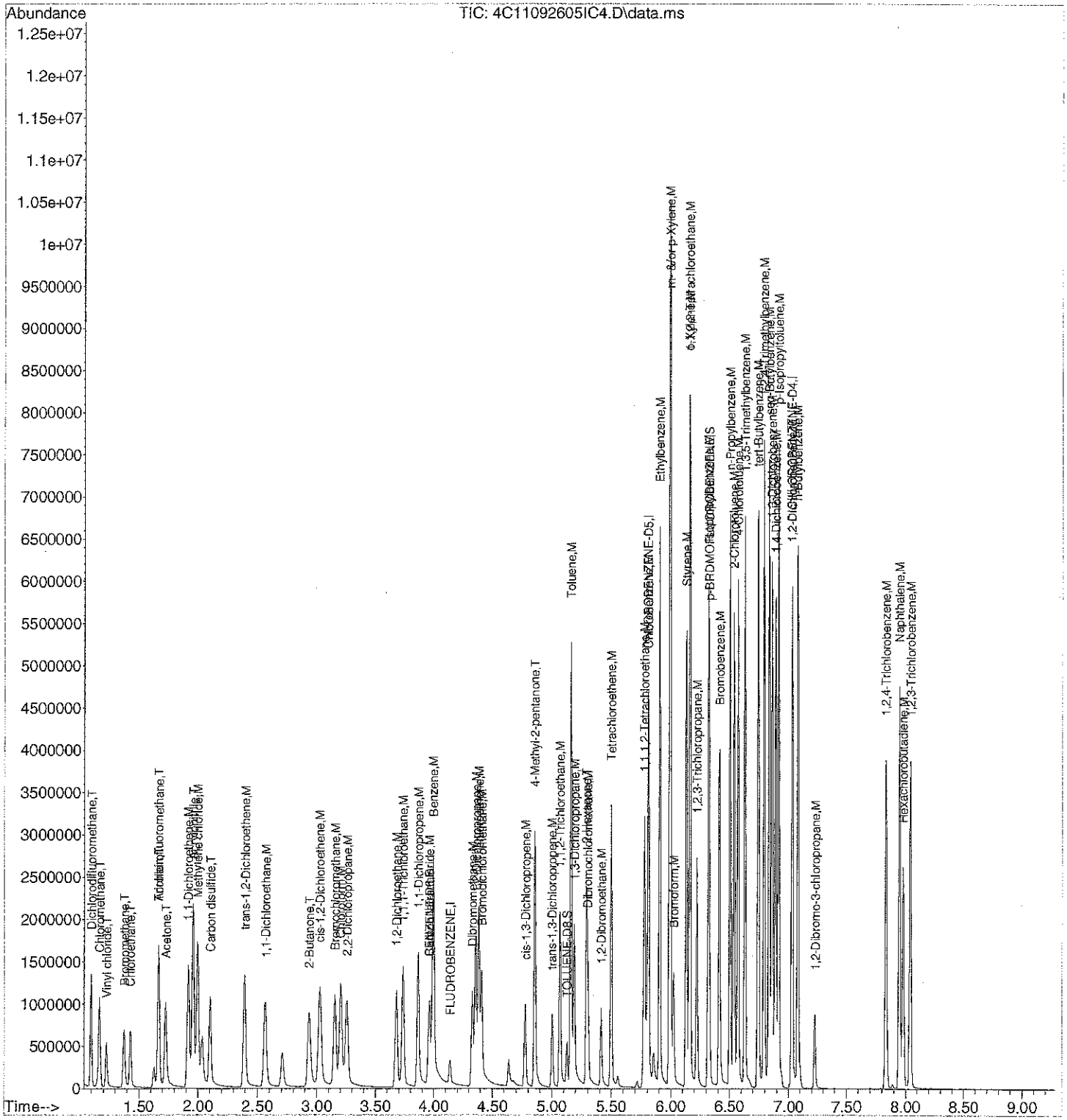
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.321	105	21931677	444.25 ng	99
53) 1,1,2,2-Tetrachloroethane	6.162	83	5997541	465.20 ng	100
54) 1,2,3-Trichloropropane	6.222	75	5531567	409.90 ng	98
55) Bromobenzene	6.414	156	6506324	431.48 ng	100
56) n-Propylbenzene	6.507	91	26250170	444.93 ng	98
57) 2-Chlorotoluene	6.540	91	17624163	500.76 ng	93
58) 4-Chlorotoluene	6.574	91	18621407	452.62 ng	99
59) 1,3,5-Trimethylbenzene	6.634	105	19957712	449.56 ng	99
60) tert-Butylbenzene	6.746	119	15882145	443.00 ng	99
61) 1,2,4-Trimethylbenzene	6.795	105	21254760	471.14 ng	99
62) sec-Butylbenzene	6.837	105	26190435	475.00 ng	99
63) p-Isopropyltoluene	6.916	119	21340808	482.77 ng	99
64) 1,3-Dichlorobenzene	6.861	146	12523122	469.13 ng	99
65) 1,4-Dichlorobenzene	6.890	146	13771593	505.19 ng	98
67) n-Butylbenzene	7.083	91	19755866	460.51 ng	100
68) 1,2-Dichlorobenzene	7.035	146	12797360	442.62 ng	99
69) 1,2-Dibromo-3-chloropr...	7.231	157	1457195	440.81 ng	99
70) 1,2,4-Trichlorobenzene	7.834	180	7183221	462.82 ng	99
71) Hexachlorobutadiene	7.980	225	3416152	431.58 ng	98
72) Naphthalene	7.948	128	20381829	428.81 ng	99
73) 1,2,3-Trichlorobenzene	8.043	180	7256967	428.05 ng	97

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092605IC4.D
Acq On : 26 Sep 2011 13:31
Operator : CTANG
Sample : IC at 500 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 26 13:40:21 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092606IC2.D
Acq On : 26 Sep 2011 13:52
Operator : CTANG
Sample : IC at 125 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 26 14:01:30 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.141	96	1712447	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.795	82	895230	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.026	152	768208	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.971	84	1790860	41.03 ng		0.00
34) TOLUENE-D8	5.128	98	1757523	48.97 ng		0.00
52) p-BROMOFLUOROBENZENE	6.332	95	765385	55.38 ng		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.099	85	1519667	127.47 ng		98
3) Chloromethane	1.167	50	1708940	117.64 ng		98
4) Vinyl chloride	1.229	62	1058797	180.46 ng		98
5) Bromomethane	1.380	94	948831	156.84 ng		95
6) Chloroethane	1.433	64	867671	120.52 ng		99
7) Trichlorofluoromethane	1.669	101	2154387	116.11 ng		100
8) Acrolein	1.669	56	81710	324.85 ng		83
9) 1,1-Dichloroethene	1.921	96	953939	119.52 ng		97
10) Acetone	1.727	43	2411824	497.66 ng		99
11) Carbon disulfide	2.106	76	2831101	123.42 ng		99
12) Methylene chloride	2.000	84	1297860	122.98 ng		94
13) Acrylonitrile	1.959	53	3367419	518.43 ng		97
14) trans-1,2-Dichloroethene	2.398	96	1104041	120.38 ng		99
15) 1,1-Dichloroethane	2.567	63	2392361	119.92 ng	#	97
16) 2-Butanone	2.937	43	3051779	472.47 ng		93
17) cis-1,2-Dichloroethene	3.029	96	1243523	117.39 ng		98
18) 2,2-Dichloropropane	3.257	77	1318311	139.46 ng		98
19) Bromochloromethane	3.156	128	596359	117.69 ng		96
20) Chloroform	3.206	83	2207844	120.40 ng		98
21) 1,1,1-Trichloroethane	3.735	97	1716834	119.87 ng		98
22) 1,1-Dichloropropene	3.868	75	1445471	117.17 ng		97
23) Carbon tetrachloride	3.964	117	844907	136.32 ng		99
25) 1,2-Dichloroethane	3.679	62	1631028	102.37 ng		94
26) Benzene	3.998	78	4559491	116.01 ng		99
27) Trichloroethene	4.387	130	1062624	103.54 ng		93
28) 1,2-Dichloropropane	4.359	63	1194585	117.82 ng		97
29) Dibromomethane	4.333	174	805018	124.24 ng		99
30) Bromodichloromethane	4.411	83	1066647	124.31 ng		98
32) cis-1,3-Dichloropropene	4.776	75	743195	122.83 ng		96
33) 4-Methyl-2-pentanone	4.858	43	3178311	209.66 ng		98
35) Toluene	5.162	91	5674856	128.12 ng		99
36) trans-1,3-Dichloropropene	5.006	75	790406	140.65 ng		97
37) 1,1,2-Trichloroethane	5.072	97	1075443	130.91 ng		100
38) 1,3-Dichloropropane	5.190	76	1705125	133.69 ng		95
39) Tetrachloroethene	5.503	166	1450540	125.57 ng		99
40) 2-Hexanone	5.291	43	2222341	203.87 ng		100
41) Dibromochloromethane	5.304	129	777615	160.77 ng		96
42) 1,2-Dibromoethane	5.417	107	1102182	144.16 ng		97
44) Chlorobenzene	5.809	112	3765341	146.36 ng		100
45) 1,1,1,2-Tetrachloroethane	5.778	131	1154150	154.63 ng		100
46) Ethylbenzene	5.906	91	6363502	141.29 ng		98
47) m- &/or p-Xylene	5.994	91	10609602	293.14 ng		100
48) o-Xylene	6.163	91	5360528	143.90 ng		98
49) Styrene	6.134	104	3929911	149.71 ng		90
50) Bromoform	6.024	173	748181	170.16 ng		100

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092606IC2.D
Acq On : 26 Sep 2011 13:52
Operator : CTANG
Sample : IC at 125 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 26 14:01:30 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration

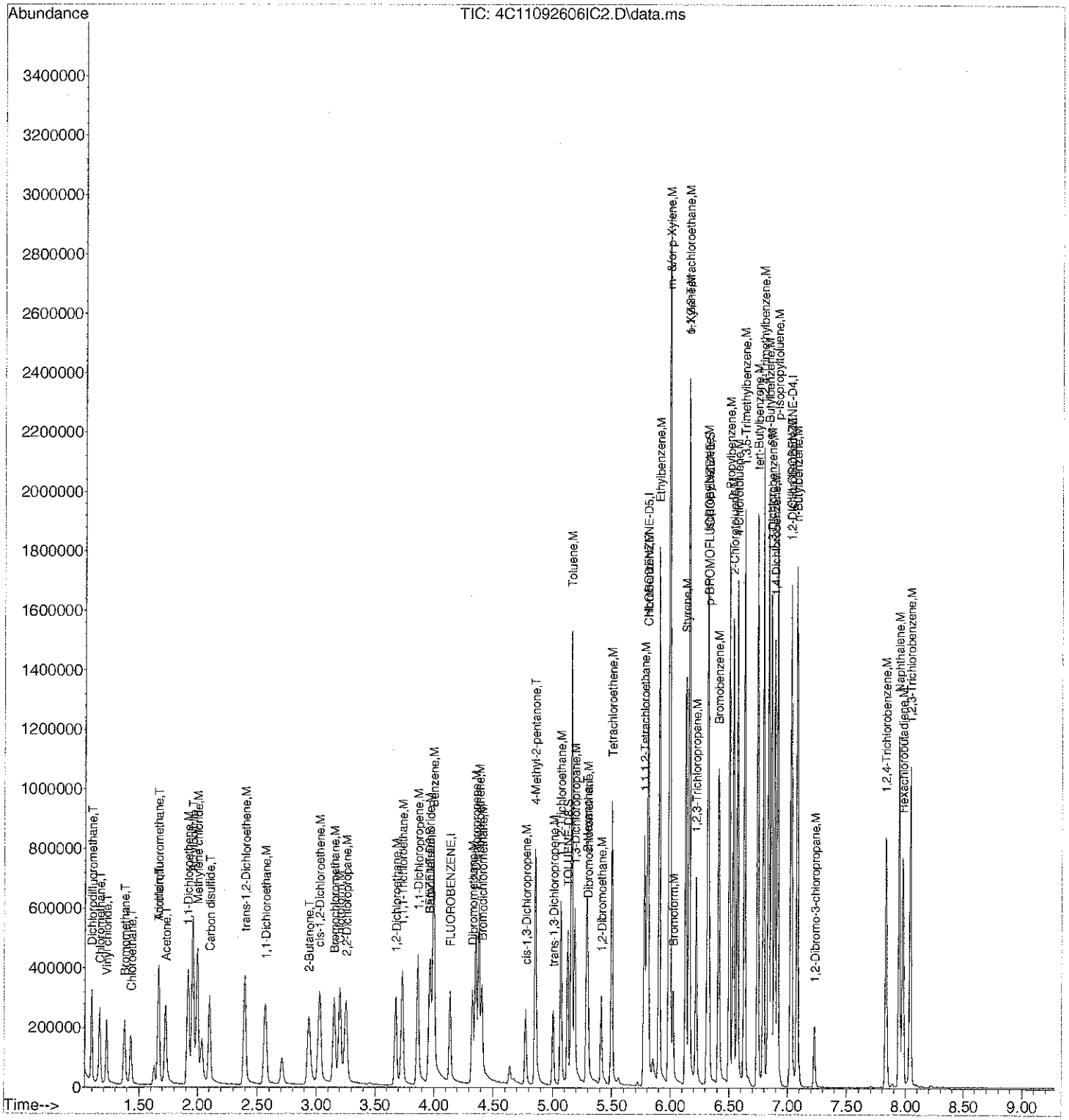
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.321	105	5793615	141.07 ng	100
53) 1,1,2,2-Tetrachloroethane	6.162	83	1645361	153.41 ng	98
54) 1,2,3-Trichloropropane	6.222	75	1444898	128.70 ng	97
55) Bromobenzene	6.415	156	1780743	141.95 ng	98
56) n-Propylbenzene	6.507	91	6892147	140.42 ng	97
57) 2-Chlorotoluene	6.540	91	4661795	159.22 ng	94
58) 4-Chlorotoluene	6.574	91	4933378	144.14 ng	98
59) 1,3,5-Trimethylbenzene	6.635	105	5464569	147.96 ng	99
60) tert-Butylbenzene	6.746	119	4245945	142.36 ng	99
61) 1,2,4-Trimethylbenzene	6.795	105	5597957	149.15 ng	100
62) sec-Butylbenzene	6.837	105	6936707	151.22 ng	99
63) p-Isopropyltoluene	6.916	119	5488263	149.24 ng	98
64) 1,3-Dichlorobenzene	6.862	146	3302228	148.70 ng	99
65) 1,4-Dichlorobenzene	6.890	146	3611817	159.26 ng	99
67) n-Butylbenzene	7.083	91	5078934	134.12 ng	99
68) 1,2-Dichlorobenzene	7.035	146	3337397	130.76 ng	99
69) 1,2-Dibromo-3-chloropr...	7.232	157	324963	111.36 ng	99
70) 1,2,4-Trichlorobenzene	7.835	180	1662804	121.37 ng	98
71) Hexachlorobutadiene	7.980	225	976083	139.70 ng	100
72) Naphthalene	7.949	128	5155768	122.88 ng	99
73) 1,2,3-Trichlorobenzene	8.044	180	1950791	130.35 ng	97

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092606IC2.D
Acq On : 26 Sep 2011 13:52
Operator : CTANG
Sample : IC at 125 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 26 14:01:30 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092607IC1.D
Acq On : 26 Sep 2011 14:13
Operator : CTANG
Sample : IC at 25 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 26 14:42:21 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.142	96	1724063	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.795	82	831575	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.026	152	684280	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.972	84	1680012	38.23 ng		0.00
34) TOLUENE-D8	5.129	98	1717208	47.52 ng		0.00
52) p-BROMOFLUOROBENZENE	6.333	95	702004	54.68 ng		0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.100	85	424971	35.41 ng		98
3) Chloromethane	1.167	50	575586	39.36 ng		100
4) Vinyl chloride	1.230	62	341381	57.79 ng		98
5) Bromomethane	1.381	94	387252	63.58 ng		99
6) Chloroethane	1.434	64	258898	35.72 ng		100
7) Trichlorofluoromethane	1.670	101	595099	31.86 ng		98
8) Acrolein	1.674	56	17871	70.57 ng	#	69
9) 1,1-Dichloroethene	1.921	96	145721	18.13 ng		91
10) Acetone	1.728	43	403449	82.69 ng		94
11) Carbon disulfide	2.107	76	526982	22.82 ng		100
12) Methylene chloride	2.001	84	206885	19.47 ng		93
13) Acrylonitrile	1.960	53	582472	89.07 ng		92
14) trans-1,2-Dichloroethene	2.398	96	183851	19.91 ng		92
15) 1,1-Dichloroethane	2.569	63	370745	18.46 ng	#	96
16) 2-Butanone	2.940	43	476386	73.26 ng		94
17) cis-1,2-Dichloroethene	3.030	96	191885	17.99 ng		98
18) 2,2-Dichloropropane	3.258	77	193203	20.30 ng		100
19) Bromochloromethane	3.159	128	96054	18.83 ng		96
20) Chloroform	3.207	83	336298	18.22 ng		98
21) 1,1,1-Trichloroethane	3.735	97	241338	16.74 ng		91
22) 1,1-Dichloropropene	3.868	75	216301	17.42 ng	#	68
23) Carbon tetrachloride	3.963	117	110630	17.73 ng		95
25) 1,2-Dichloroethane	3.680	62	267196	16.66 ng		92
26) Benzene	3.998	78	734140	18.55 ng		96
27) Trichloroethene	4.387	130	181593	17.58 ng		95
28) 1,2-Dichloropropane	4.359	63	196665	19.27 ng		97
29) Dibromomethane	4.334	174	129506	19.85 ng		97
30) Bromodichloromethane	4.411	83	147000	17.02 ng		99
32) cis-1,3-Dichloropropene	4.776	75	143114	23.49 ng		98
33) 4-Methyl-2-pentanone	4.859	43	489178	32.05 ng	#	90
35) Toluene	5.162	91	923788	20.72 ng		99
36) trans-1,3-Dichloropropene	5.006	75	138133	24.42 ng		94
37) 1,1,2-Trichloroethane	5.072	97	183041	22.13 ng		98
38) 1,3-Dichloropropane	5.190	76	311820	24.28 ng		94
39) Tetrachloroethene	5.504	166	262939	22.61 ng		99
40) 2-Hexanone	5.293	43	364976	33.26 ng		91
41) Dibromochloromethane	5.303	129	127752	26.24 ng	#	85
42) 1,2-Dibromoethane	5.417	107	187542	24.36 ng		99
44) Chlorobenzene	5.810	112	646641	27.06 ng		96
45) 1,1,1,2-Tetrachloroethane	5.777	131	152418	21.98 ng		99
46) Ethylbenzene	5.906	91	983251	23.50 ng		96
47) m- &/or p-Xylene	5.994	91	1562438	46.47 ng		96
48) o-Xylene	6.163	91	792601	22.91 ng		98
49) Styrene	6.134	104	561973	23.05 ng		88
50) Bromoform	6.025	173	102967	25.21 ng		90

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092607IC1.D
Acq On : 26 Sep 2011 14:13
Operator : CTANG
Sample : IC at 25 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 26 14:42:21 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration

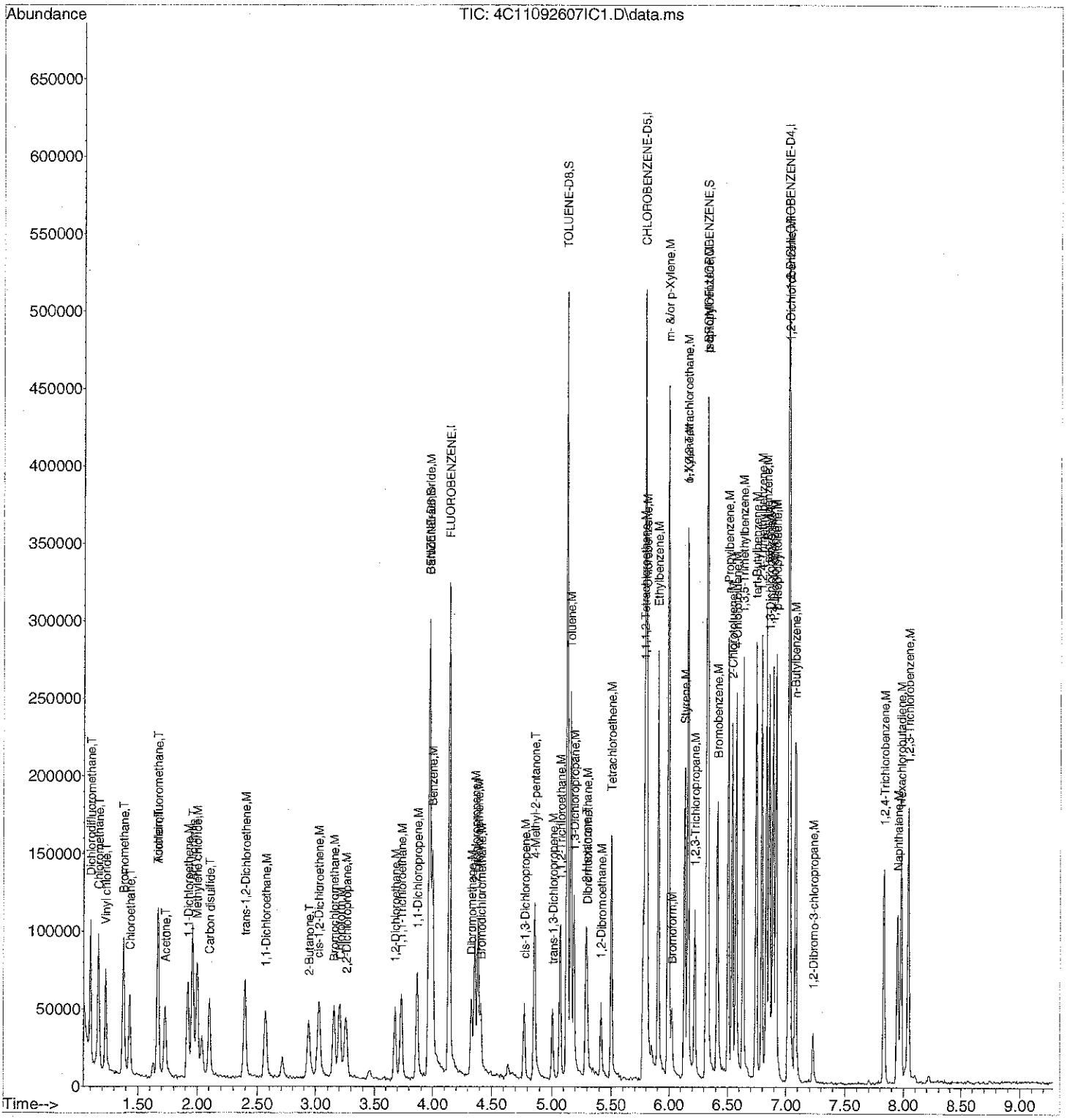
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
51) Isopropylbenzene	6.321	105	826083	21.65 ng		98
53) 1,1,2,2-Tetrachloroethane	6.162	83	259495	26.05 ng		98
54) 1,2,3-Trichloropropane	6.223	75	217662	20.87 ng		92
55) Bromobenzene	6.415	156	285667	24.52 ng		98
56) n-Propylbenzene	6.507	91	1006561	22.08 ng		97
57) 2-Chlorotoluene	6.541	91	708371	26.05 ng		95
58) 4-Chlorotoluene	6.575	91	754090	23.72 ng		98
59) 1,3,5-Trimethylbenzene	6.635	105	779517	22.72 ng		99
60) tert-Butylbenzene	6.746	119	598161	21.59 ng		98
61) 1,2,4-Trimethylbenzene	6.795	105	783998	22.49 ng		99
62) sec-Butylbenzene	6.837	105	1041900	24.45 ng		98
63) p-Isopropyltoluene	6.916	119	717437	21.00 ng	#	75
64) 1,3-Dichlorobenzene	6.862	146	532804	25.83 ng		99
65) 1,4-Dichlorobenzene	6.891	146	660414	31.35 ng		96
67) n-Butylbenzene	7.084	91	677934	20.10 ng		97
68) 1,2-Dichlorobenzene	7.035	146	550165	24.20 ng		97
69) 1,2-Dibromo-3-chloropr...	7.232	157	44643	17.18 ng		86
70) 1,2,4-Trichlorobenzene	7.835	180	271371	22.24 ng		96
71) Hexachlorobutadiene	7.980	225	184688	29.67 ng		97
72) Naphthalene	7.950	128	581298	15.55 ng		99
73) 1,2,3-Trichlorobenzene	8.044	180	317497	23.82 ng		94

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092607IC1.D
Acq On : 26 Sep 2011 14:13
Operator : CTANG
Sample : IC at 25 NG
Misc : LIMS # 1090912/1092601
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 26 14:42:21 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Tue Sep 20 12:09:53 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092608ICC.D
Acq On : 26 Sep 2011 15:07
Operator : CTANG
Sample : IC Check at 250 NG
Misc : LIMS # 1090605/1092602
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 26 15:52:33 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
59) 1,3,5-Trimethylbenzene	6.634	105	12027256	321.81 ng	99
60) tert-Butylbenzene	6.746	119	9608305	327.36 ng	100 X
61) 1,2,4-Trimethylbenzene	6.795	105	12137922	316.44 ng	100
62) sec-Butylbenzene	6.837	105	15070980	314.41 ng	99
63) p-Isopropyltoluene	6.916	119	12585493	331.73 ng	99 X
64) 1,3-Dichlorobenzene	6.862	146	7056084	306.01 ng	99
65) 1,4-Dichlorobenzene	6.890	146	7732776	301.04 ng	99
67) n-Butylbenzene	7.083	91	11449843	303.32 ng	100
68) 1,2-Dichlorobenzene	7.035	146	7327380	291.53 ng	99
69) 1,2-Dibromo-3-chloropr...	7.232	157	840784	310.21 ng	97
70) 1,2,4-Trichlorobenzene	7.835	180	4288110	305.91 ng	99
71) Hexachlorobutadiene	7.980	225	2177101	295.59 ng	98
72) Naphthalene	7.949	128	12196217	327.62 ng	100 X
73) 1,2,3-Trichlorobenzene	8.044	180	4445221	305.14 ng	99

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092608ICC.D
Acq On : 26 Sep 2011 15:07
Operator : CTANG
Sample : IC Check at 250 NG
Misc : LIMS # 1090605/1092602
ALS Vial : 8 Sample Multiplier: 1

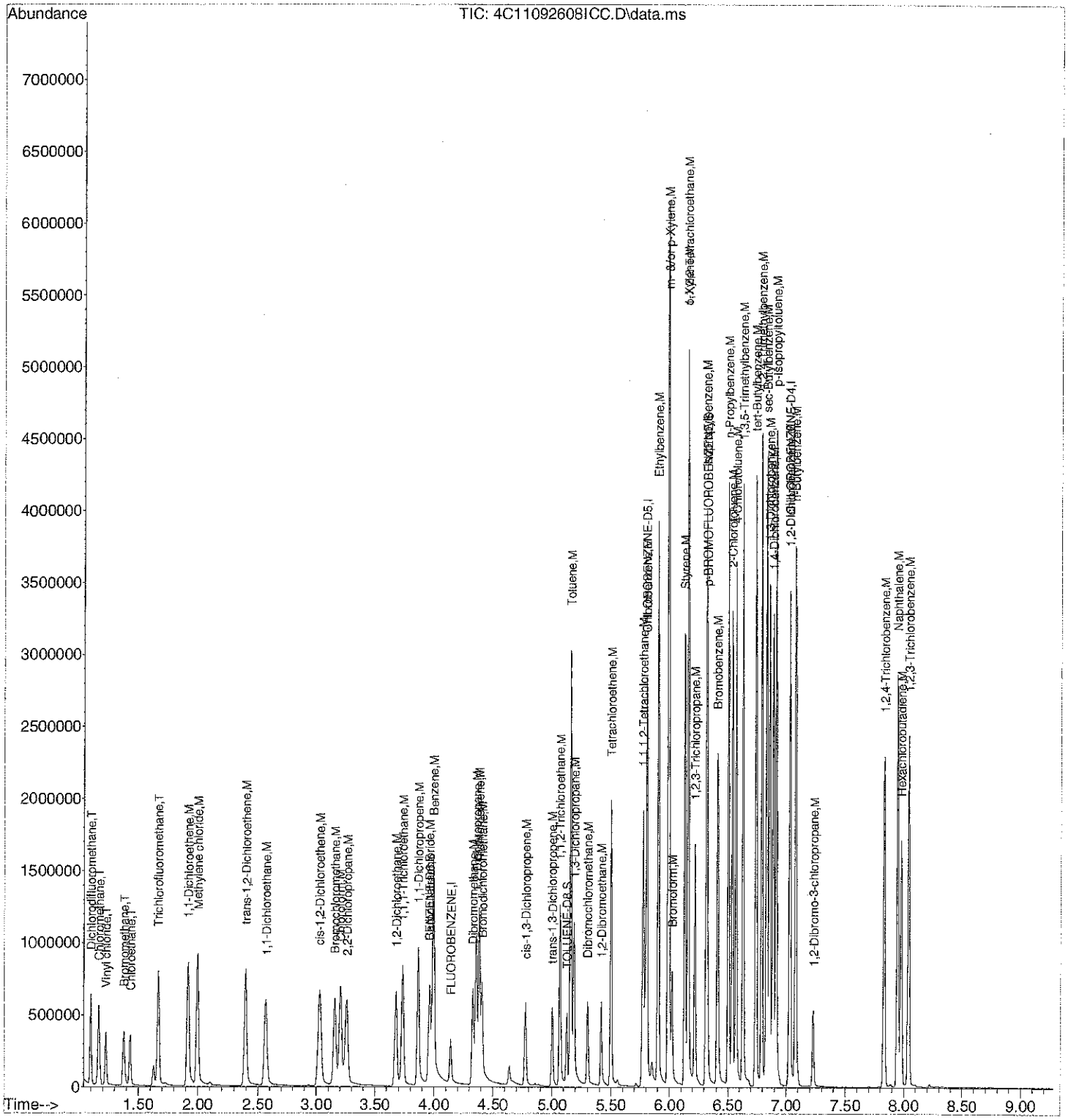
Quant Time: Sep 26 15:52:33 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.142	96	1693069	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.795	82	975703	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.026	152	813746	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.971	84	1897677	43.57 ng	0.00
34) TOLUENE-D8	5.128	98	1709654	47.95 ng	0.00
52) p-BROMOFLUOROBENZENE	6.332	95	770194	52.07 ng	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.100	85	2929015	236.25 ng	100
3) Chloromethane	1.168	50	3655323	270.37 ng	100
4) Vinyl chloride	1.228	62	2134968	320.00 ng	98
5) Bromomethane	1.379	94	1649168	267.10 ng	97
6) Chloroethane	1.434	64	1793940	261.99 ng	100
7) Trichlorofluoromethane	1.669	101	4276216	247.89 ng	100
9) 1,1-Dichloroethene	1.921	96	2257316	306.04 ng	98
12) Methylene chloride	2.000	84	2665344	266.27 ng	99
14) trans-1,2-Dichloroethene	2.398	96	2356233	280.69 ng	99
15) 1,1-Dichloroethane	2.567	63	5155248	280.04 ng	99
17) cis-1,2-Dichloroethene	3.028	96	2724208	287.91 ng	99
18) 2,2-Dichloropropane	3.257	77	2833957	279.71 ng	98
19) Bromochloromethane	3.156	128	1319857	284.89 ng	99
20) Chloroform	3.206	83	4628353	272.59 ng	98
21) 1,1,1-Trichloroethane	3.735	97	3595521	270.07 ng	97
22) 1,1-Dichloropropene	3.867	75	3243094	287.86 ng	96
23) Carbon tetrachloride	3.964	117	1978257	295.18 ng	99
25) 1,2-Dichloroethane	3.679	62	3623371	271.35 ng	96
26) Benzene	3.998	78	9463511	269.96 ng	98
27) Trichloroethene	4.386	130	2477005	285.66 ng	97
28) 1,2-Dichloropropane	4.359	63	2557817	281.60 ng	97
29) Dibromomethane	4.332	174	1689278	292.05 ng	99
30) Bromodichloromethane	4.410	83	2363728	271.56 ng	98
32) cis-1,3-Dichloropropene	4.776	75	1686121	270.28 ng	100
35) Toluene	5.162	91	11393044	275.61 ng	99
36) trans-1,3-Dichloropropene	5.005	75	1659851	279.46 ng	98
37) 1,1,2-Trichloroethane	5.071	97	2315243	305.53 ng	95
38) 1,3-Dichloropropane	5.190	76	3475665	283.42 ng	98
39) Tetrachloroethene	5.503	166	3044472	277.21 ng	100
41) Dibromochloromethane	5.304	129	1619261	280.14 ng	99
42) 1,2-Dibromoethane	5.416	107	2122969	296.37 ng	99
44) Chlorobenzene	5.809	112	7812835	298.70 ng	99
45) 1,1,1,2-Tetrachloroethane	5.777	131	2620933	314.89 ng	98
46) Ethylbenzene	5.905	91	13823718	307.88 ng	100
47) m- &/or p-Xylene	5.993	91	22358752	623.09 ng	99
48) o-Xylene	6.163	91	11486620	311.27 ng	98
49) Styrene	6.133	104	7933430	299.05 ng	98
50) Bromoform	6.024	173	1915666	342.31 ng	97 X
51) Isopropylbenzene	6.321	105	13832776	344.54 ng	100 X
53) 1,1,2,2-Tetrachloroethane	6.161	83	3806126	341.13 ng	97 X
54) 1,2,3-Trichloropropane	6.222	75	3347217	334.21 ng	98 X
55) Bromobenzene	6.414	156	3768822	305.29 ng	98
56) n-Propylbenzene	6.507	91	15867210	324.79 ng	98
57) 2-Chlorotoluene	6.540	91	10322836	314.69 ng	93
58) 4-Chlorotoluene	6.574	91	10713680	309.88 ng	99

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092608ICC.D
Acq On : 26 Sep 2011 15:07
Operator : CTANG
Sample : IC Check at 250 NG
Misc : LIMS # 1090605/1092602
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 26 15:52:33 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration



4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

B109064-BLK1

Lab Name: Blue Island Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 1109008 SAS No.: _____ SDG No.: MS023

Lab File ID: 4C11092609BL Lab Sample ID: B109064-BLK1

Date Analyzed: 9/26/2011 Time Analyzed: 15:29

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS 4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TCLP FILTRATION	B109064-BLK2	4C11092610BLK	15:50
02	BIP-1 FILTRATE	1109008-01	4C11092611.D	16:11
03	BIP-2 FILTRATE 1:5	1109008-02	4C11092612.D	16:34
04	BIP-3 FILTRATE 1:5	1109008-03	4C11092613.D	16:57
05	BIP-4 FILTRATE 1:1	1109008-04	4C11092614.D	17:20
06	BIP-5 FILTRATE 1:1	1109008-05	4C11092615.D	17:43
07	BIP-7 AQUEOUS 1:	1109008-07	4C11092616.D	18:05
08	LAB BLANK	LAB BLANK	4C11092617.D	18:26
09	BIP-1 MS1	B109064-MS1	4C11092618MS.	18:47
10	BIP-1 MSD1	B109064-MSD1	4C11092619MS	19:09
11	CCV	B109064-BSD1	4C11092620BS	19:30

COMMENTS:

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092609BLK.D
Acq On : 26 Sep 2011 15:29
Operator : CTANG
Sample : B109064-BLK1
Misc : LIMS # 1080114
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 26 15:58:29 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

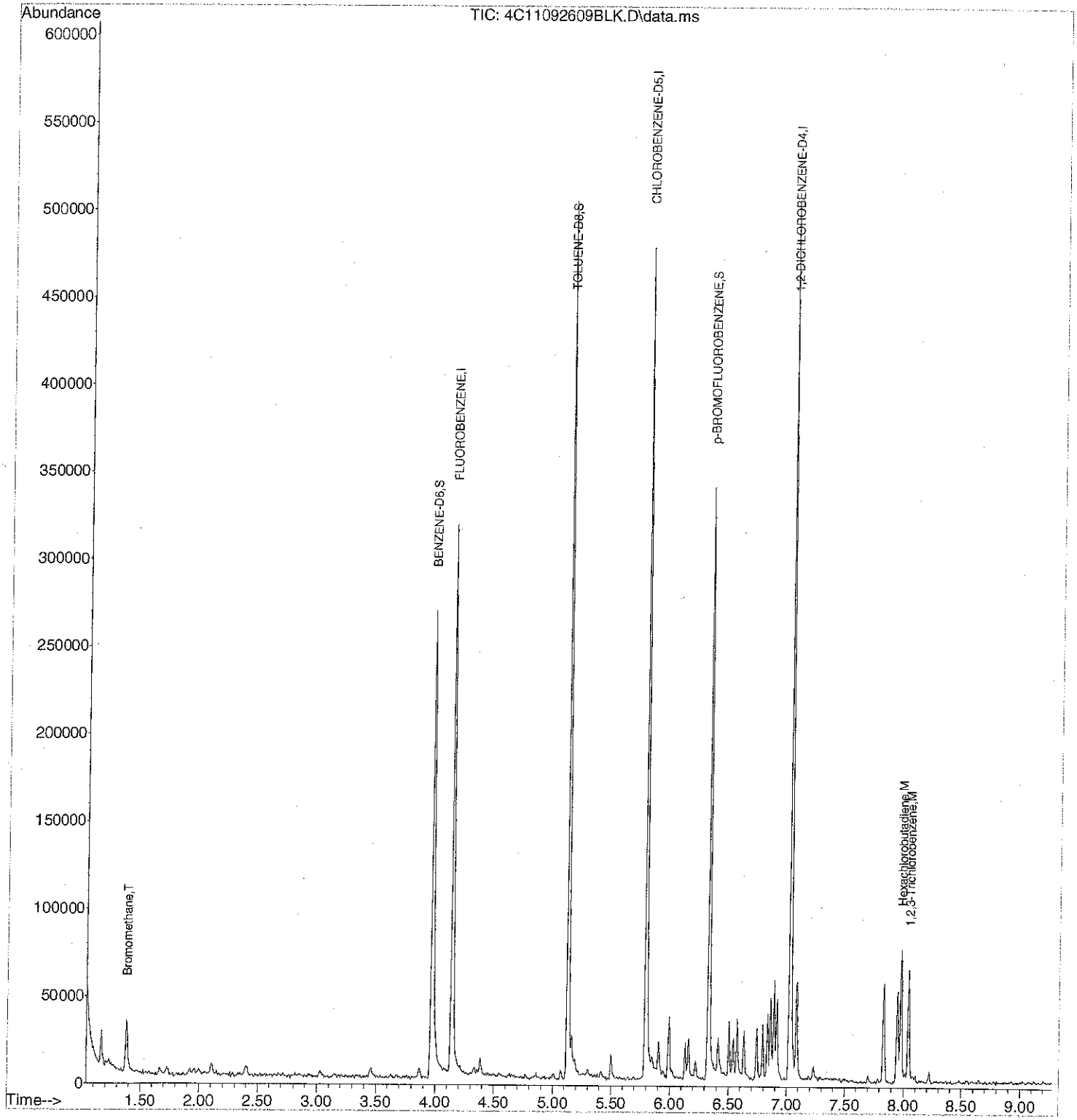
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.142	96	1661268	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.796	82	804504	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.027	152	679621	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.973	84	1603827	37.53 ng	0.00
34) TOLUENE-D8	5.129	98	1652799	47.24 ng	0.00
52) p-BROMOFLUOROBENZENE	6.333	95	669957	54.93 ng	0.00
Target Compounds					Qvalue
5) Bromomethane	1.383	94	147016	24.27 ng	96
71) Hexachlorobutadiene	7.981	225	90803	14.76 ng	98
73) 1,2,3-Trichlorobenzene	8.045	180	122394	10.06 ng	94

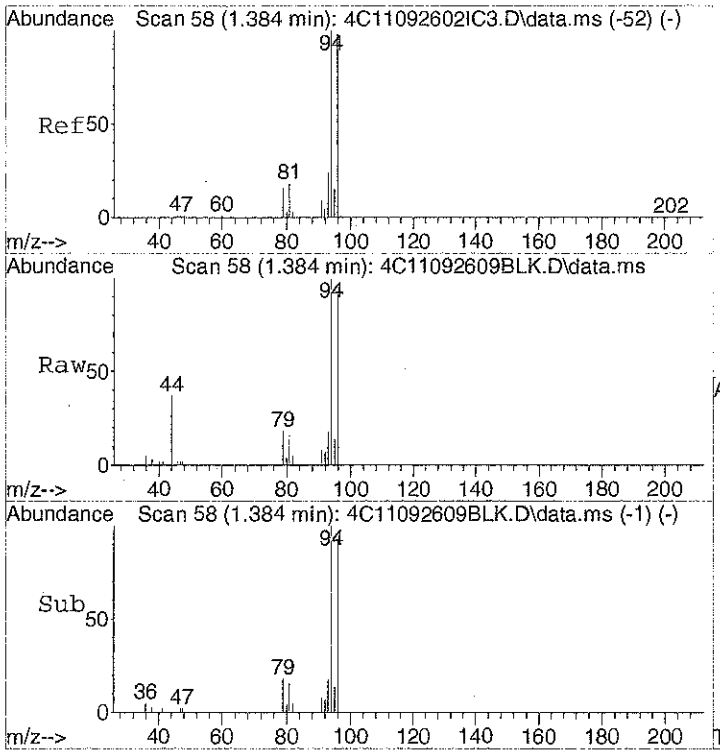
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092609BLK.D
Acq On : 26 Sep 2011 15:29
Operator : CTANG
Sample : B109064-BLK1
Misc : LIMS # 1080114
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 26 15:58:29 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

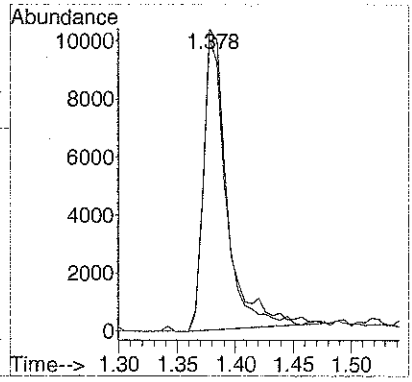


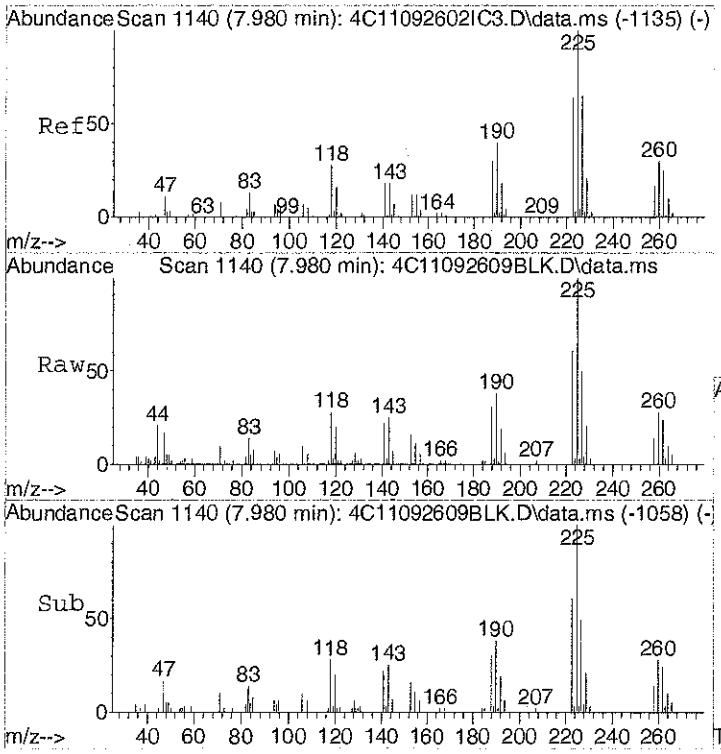


#5
Bromomethane
Concen: 24.27 ng
RT: 1.383 min Scan# 58
Delta R.T. -0.001 min
Lab File: 4C11092609BLK.D
Acq: 26 Sep 2011 15:29

Tgt Ion: 94 Resp: 147016

Ion	Ratio	Lower	Upper
94	100		
96	90.8	61.2	127.2

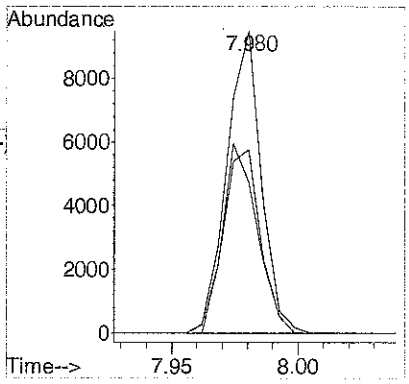


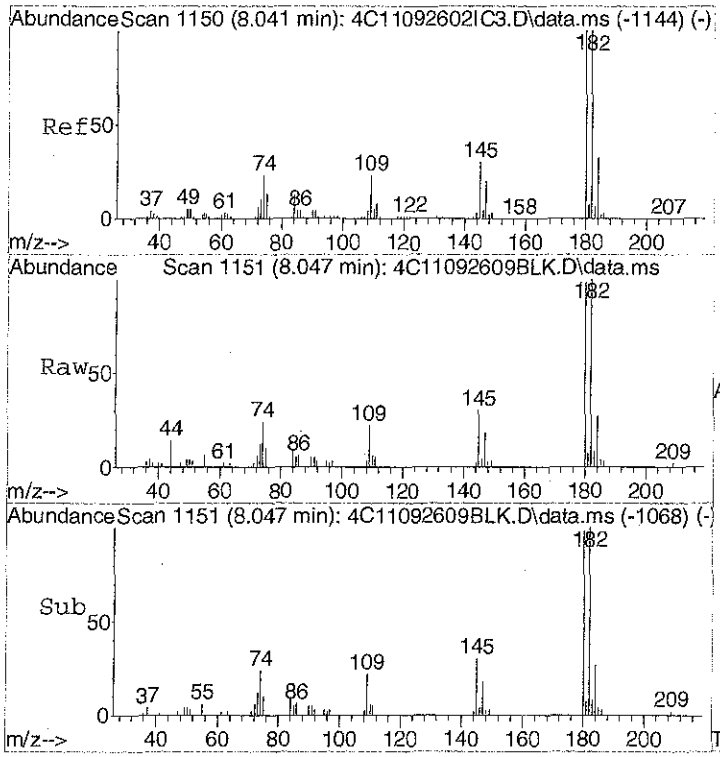


#71
Hexachlorobutadiene
Concen: 14.76 ng
RT: 7.981 min Scan# 1140
Delta R.T. 0.002 min
Lab File: 4C11092609BLK.D
Acq: 26 Sep 2011 15:29

Tgt Ion:225 Resp: 90803

Ion	Ratio	Lower	Upper
225	100		
227	62.9	42.1	87.5
223	66.1	41.9	86.9

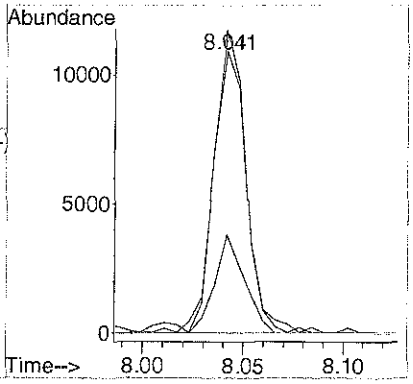




#73
1,2,3-Trichlorobenzene
Concen: 10.06 ng
RT: 8.045 min Scan# 1151
Delta R.T. 0.003 min
Lab File: 4C11092609BLK.D
Acq: 26 Sep 2011 15:29

Tgt Ion:180 Resp: 122394

Ion	Ratio	Lower	Upper
180	100		
182	105.6	65.5	136.1
184	36.7	20.9	43.3



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092704BLK.D
Acq On : 27 Sep 2011 12:58
Operator : CTANG
Sample : B109064-BLK3
Misc : LIMS # 1080114
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 14:33:16 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

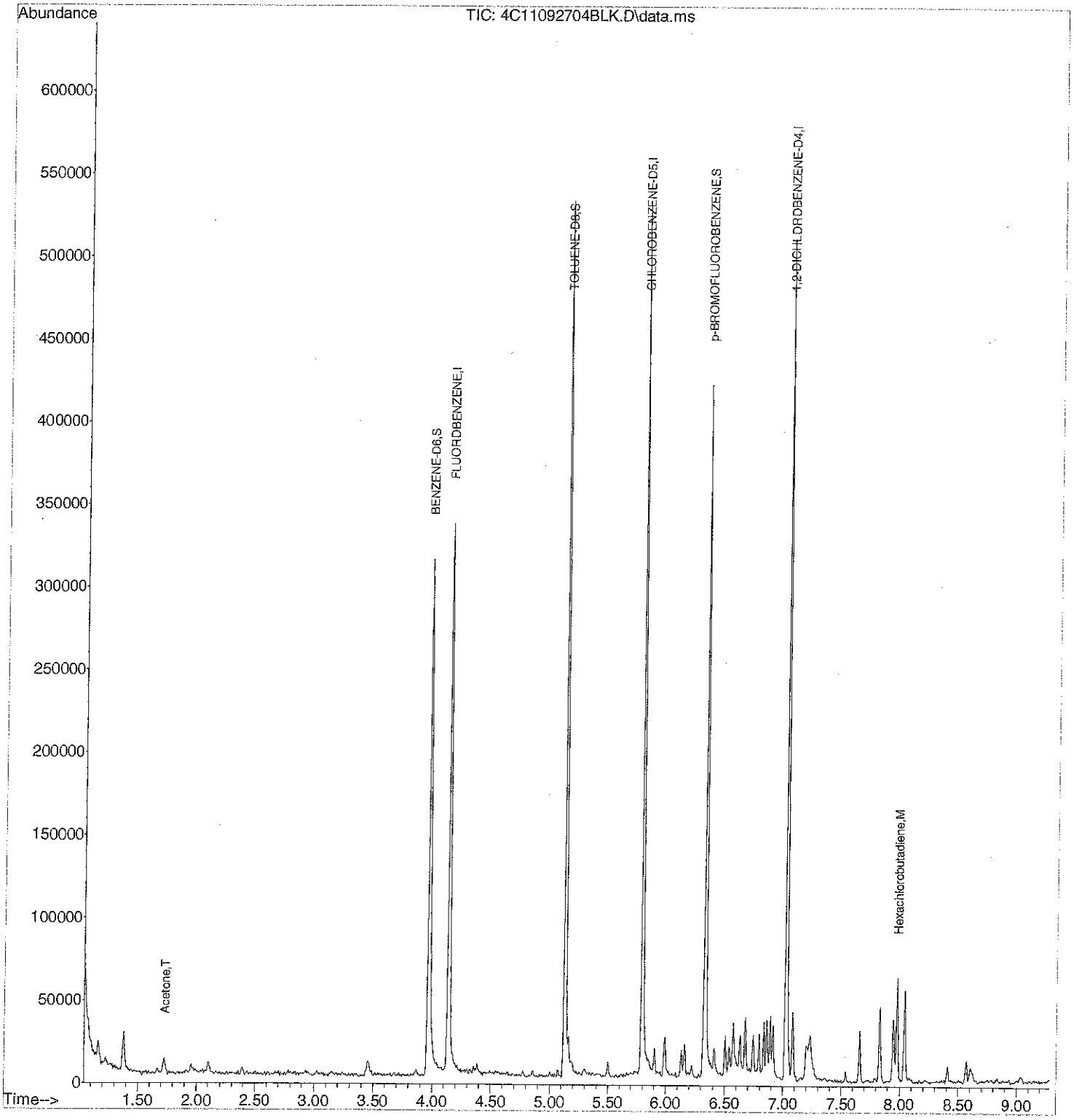
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.141	96	1929945	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.794	82	863315	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.025	152	694234	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.971	84	1881545	37.90 ng	0.00
34) TOLUENE-D8	5.128	98	1864387	45.87 ng	0.00
52) p-BROMOFLUOROBENZENE	6.332	95	757277	57.86 ng	0.00
Target Compounds					Qvalue
10) Acetone	1.727	43	90161	21.56 ng	92
71) Hexachlorobutadiene	7.979	225	78888	12.55 ng	94

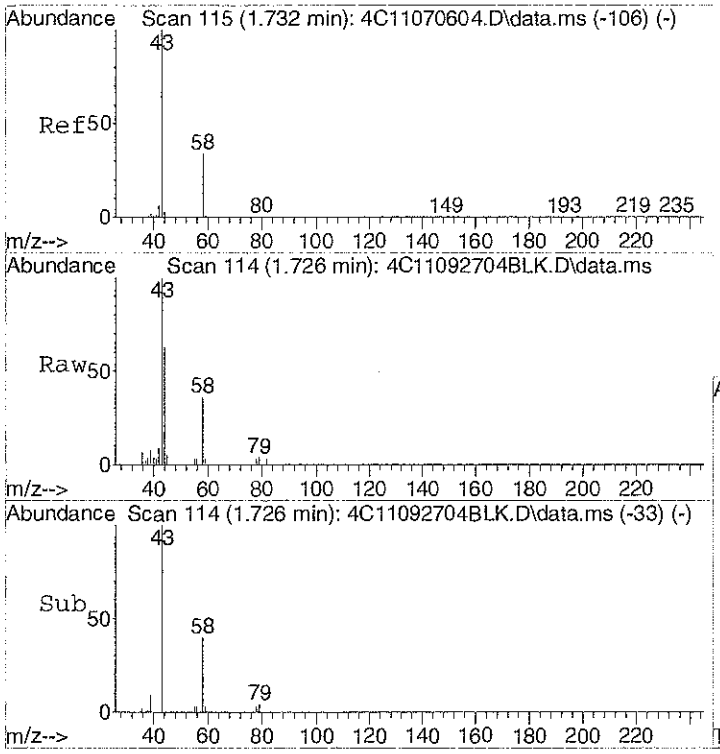
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092704BLK.D
Acq On : 27 Sep 2011 12:58
Operator : CTANG
Sample : B109064-BLK3
Misc : LIMS # 1080114
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 27 14:33:16 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

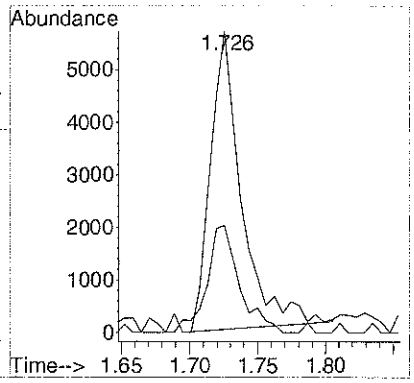


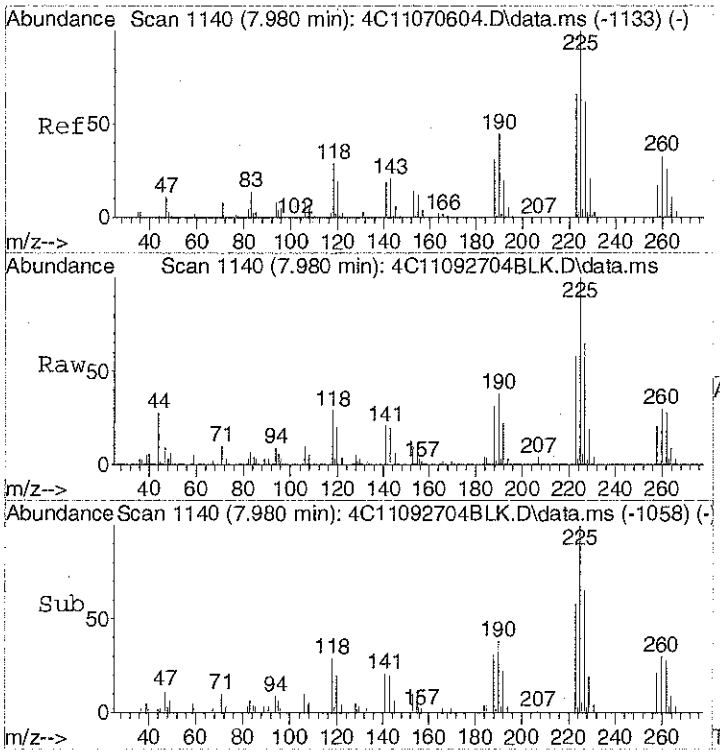


#10
Acetone
Concen: 21.56 ng
RT: 1.727 min Scan# 114
Delta R.T. -0.005 min
Lab File: 4C11092704BLK.D
Acq: 27 Sep 2011 12:58

Tgt Ion: 43 Resp: 90161

Ion	Ratio	Lower	Upper
43	100		
58	38.0	21.6	44.8

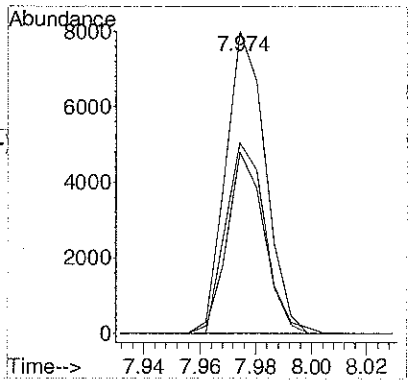




#71
Hexachlorobutadiene
Concen: 12.55 ng
RT: 7.979 min Scan# 1140
Delta R.T. -0.000 min
Lab File: 4C11092704BLK.D
Acq: 27 Sep 2011 12:58

Tgt Ion:225 Resp: 78888

Ion	Ratio	Lower	Upper
225	100		
227	62.9	42.1	87.5
223	56.1	41.9	86.9



4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

B109064-BLK3

Lab Name: Blue Island Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 1109008 SAS No.: _____ SDG No.: MS023

Lab File ID: 4C11092704BL Lab Sample ID: B109064-BLK3

Date Analyzed: 9/27/2011 Time Analyzed: 12:58

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: GCMS 4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	BIP-7 AQUEOUS 20	1109008-07	4C11092706.D	14:41
02	LAB BLANK	LAB BLANK	4C11092707BLK	15:32
03	BIP-7 AQUEOUS 2,	1109008-07	4C11092708.D	15:55
04	BIP-7 OIL 20,000X	1109008-07	4C11092709.D	16:18
05	LAB BLANK	LAB BLANK	4C11092710.D	16:40
06	LAB BLANK	LAB BLANK	4C11092711BLK	17:13
07	BIP-7 OIL 250,000X	1109008-07	4C11092712.D	17:36
08	BIP-7 AQUEOUS 10	1109008-07	4C11092713.D	17:59
09	CCV WITH METHA	B109064-BSD2	4C11092714BS	18:23
10	CCV WITHOUT ME	B109064-BSD3	4C11092715BS	18:45

COMMENTS:

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Blue Island Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 1109008 SAS No.: SDG No.: MS023

Lab File ID (Standard): 4C11092602IC3.D Date Analyzed: 9/26/2011

Instrument ID: GCMS 4 Time Analyzed: 12:27

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1(FLB) AREA #	RT #	IS2 AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	1667865	4.14	966339	5.79	812841	7.02
	UPPER LIMIT	3335730	4.64	1932678	6.29	1625682	7.52
	LOWER LIMIT	833933	3.64	483170	5.29	406421	6.52
	EPA SAMPLE NO.						
01	IC CHECK AT	1693069	4.14	975703	5.79	813746	7.03
02	B109064-BLK	1661268	4.14	804504	5.80	679621	7.03
03	TCLP FILTRA	1605606	4.14	747539	5.80	664567	7.03
04	BIP-1 FILTRA	1603652	4.14	753844	5.80	584061	7.03
05	BIP-2 FILTRA	1569078	4.14	749639	5.80	507705	7.03
06	BIP-3 FILTRA	1652653	4.14	743312	5.79	694761	7.03
07	BIP-4 FILTRA	1504371	4.14	728259	5.80	586572	7.03
08	BIP-5 FILTRA	1593482	4.14	746941	5.79	673266	7.03
09	BIP-7 AQUEO	1443865	4.16	827437	5.79	831270	7.03
10	LAB BLANK	1904916	4.14	1119308	5.79	857236	7.02
11	BIP-1 MS1	1896891	4.14	1245262	5.79	920039	7.02
12	BIP-1 MSD1	1890871	4.14	1117675	5.79	920686	7.03
13	CCV	1778111	4.14	1040363	5.79	865419	7.03

IS1 (FLB) = FLUOROBENZENE
IS2 = CHLOROBENZENE-D5
IS3 (DCB) = 1,2-DICHLOROBENZEN

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Blue Island Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 1109008 SAS No.: SDG No.: MS023

Lab File ID (Standard): 4C11092705CCV. Date Analyzed: 9/27/2011

Instrument ID: GCMS 4 Time Analyzed: 14:03

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

		IS1(FLB) AREA #	RT #	IS2 AREA #	RT #	IS3(DCB) AREA #	RT #
	12 HOUR STD	1804269	4.14	1007808	5.79	872049	7.03
	UPPER LIMIT	3608538	4.64	2015616	6.29	1744098	7.53
	LOWER LIMIT	902135	3.64	503904	5.29	436025	6.53
	EPA SAMPLE NO.						
01	BIP-7 AQUEO	1818321	4.14	845424	5.79	810349	7.03
02	LAB BLANK	1536510	4.14	692552	5.80	504822	7.03
03	BIP-7 AQUEO	1743617	4.14	802076	5.80	673763	7.03
04	BIP-7 OIL 20,0	1747262	4.14	823924	5.80	735829	7.03
05	LAB BLANK	1741153	4.14	799223	5.80	714475	7.03
06	LAB BLANK	1752746	4.14	801427	5.80	730471	7.03
07	BIP-7 OIL 250,	1700803	4.14	797031	5.80	746433	7.03
08	BIP-7 AQUEO	1669760	4.14	797358	5.80	658440	7.03
09	CCV WITH M	1706292	4.14	941706	5.79	784685	7.03
10	CCV WITHOU	1693236	4.14	932846	5.79	763019	7.03

IS1 (FLB) = FLUOROBENZENE
IS2 = CHLOROBENZENE-D5
IS3 (DCB) = 1,2-DICHLOROBENZEN

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Blue Island Contract: ML-10C

Lab Code: USEPA-R5 Case No.: 1109008 SAS No.: SDG No.: MS023

Lab File ID (Standard): 4C11092703CCV. Date Analyzed: 9/27/2011

Instrument ID: GCMS 4 Time Analyzed: 12:37

GC Column: DB-VRX ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1(FLB) AREA #	RT #	IS2 AREA #	RT #	IS3(DCB) AREA #	RT #
12 HOUR STD	1905995	4.14	1064553	5.79	887411	7.03
UPPER LIMIT	3811990	4.64	2129106	6.29	1774822	7.53
LOWER LIMIT	952998	3.64	532277	5.29	443706	6.53
EPA SAMPLE NO.						
01 B109064-BLK	1929945	4.14	863315	5.79	694234	7.03

IS1 (FLB) = FLUOROBENZENE
IS2 = CHLOROBENZENE-D5
IS3 (DCB) = 1,2-DICHLOROBENZEN

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092618MS.D
Acq On : 26 Sep 2011 18:47
Operator : CTANG
Sample : B109064-MS1
Misc : 1109008-01 Filtrate Vial 2
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 27 08:58:11 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.141	96	1896891	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.795	82	1245262	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.023	152	920039m	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.971	84	2061327	42.24 ng	0.00
34) TOLUENE-D8	5.128	98	1931088	48.34 ng	0.00
52) p-BROMOFLUOROBENZENE	6.332	95	862123	45.67 ng	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.098	85	3144682	226.39 ng	99
3) Chloromethane	1.166	50	3725593	245.96 ng	100
4) Vinyl chloride	1.228	62	2373688	317.55 ng	98
5) Bromomethane	1.377	94	1645751	237.91 ng	98
6) Chloroethane	1.432	64	2026396	264.14 ng	99
7) Trichlorofluoromethane	1.668	101	4477863	231.69 ng	99
8) Acrolein	1.669	56	168499	1157.53 ng	84
9) 1,1-Dichloroethene	1.919	96	1634136	197.74 ng	99
10) Acetone	1.724	43	8224731	2001.39 ng	99
11) Carbon disulfide	2.105	76	4591135	181.37 ng	100
12) Methylene chloride	1.999	84	2619555	233.57 ng	98
13) Acrylonitrile	1.956	53	7578140	1308.56 ng	99
14) trans-1,2-Dichloroethene	2.396	96	2110917	224.44 ng	99
15) 1,1-Dichloroethane	2.565	63	4886868	236.93 ng	98
16) 2-Butanone	2.934	43	7351025	1393.10 ng	99
17) cis-1,2-Dichloroethene	3.027	96	2638530	248.89 ng	98
18) 2,2-Dichloropropane	3.256	77	2429166	213.99 ng	95
19) Bromochloromethane	3.155	128	1252507	241.31 ng	95
20) Chloroform	3.204	83	4351228	228.74 ng	99
21) 1,1,1-Trichloroethane	3.735	97	2901683	194.53 ng	99
22) 1,1-Dichloropropene	3.867	75	2596266	205.69 ng	97
23) Carbon tetrachloride	3.964	117	1077208	143.46 ng	98
25) 1,2-Dichloroethane	3.678	62	3677660	245.82 ng	96
26) Benzene	3.998	78	9665796	246.10 ng	99
27) Trichloroethene	4.386	130	2176401	224.02 ng	98
28) 1,2-Dichloropropane	4.358	63	2660413	261.42 ng	97
29) Dibromomethane	4.332	174	1699397	262.23 ng	99
30) Bromodichloromethane	4.410	83	1948085	199.76 ng	100
32) cis-1,3-Dichloropropene	4.776	75	1676207	239.82 ng	98
33) 4-Methyl-2-pentanone	4.858	43	7144496	542.60 ng	98
35) Toluene	5.162	91	11969623	258.44 ng	100
36) trans-1,3-Dichloropropene	5.005	75	1661638	249.70 ng	99
37) 1,1,2-Trichloroethane	5.072	97	2158405	254.23 ng	98
38) 1,3-Dichloropropane	5.190	76	3623531	263.73 ng	98
39) Tetrachloroethene	5.503	166	2344486	190.54 ng	96
40) 2-Hexanone	5.291	43	4922085	536.98 ng	96
41) Dibromochloromethane	5.304	129	1398907	216.02 ng	98
42) 1,2-Dibromoethane	5.416	107	2171700	270.60 ng	98
44) Chlorobenzene	5.810	112	7561590	226.52 ng	97
45) 1,1,1,2-Tetrachloroethane	5.778	131	2267590	213.47 ng	99
46) Ethylbenzene	5.905	91	12935071	225.73 ng	99
47) m- &/or p-Xylene	5.993	91	20656494	451.04 ng	98
48) o-Xylene	6.163	91	10989064	233.32 ng	99
49) Styrene	6.134	104	7729903	228.31 ng	100
50) Bromoform	6.024	173	1438329	201.38 ng	100

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092618MS.D
Acq On : 26 Sep 2011 18:47
Operator : CTANG
Sample : B109064-MS1
Misc : 1109008-01 Filtrate Vial 2
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 27 08:58:11 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

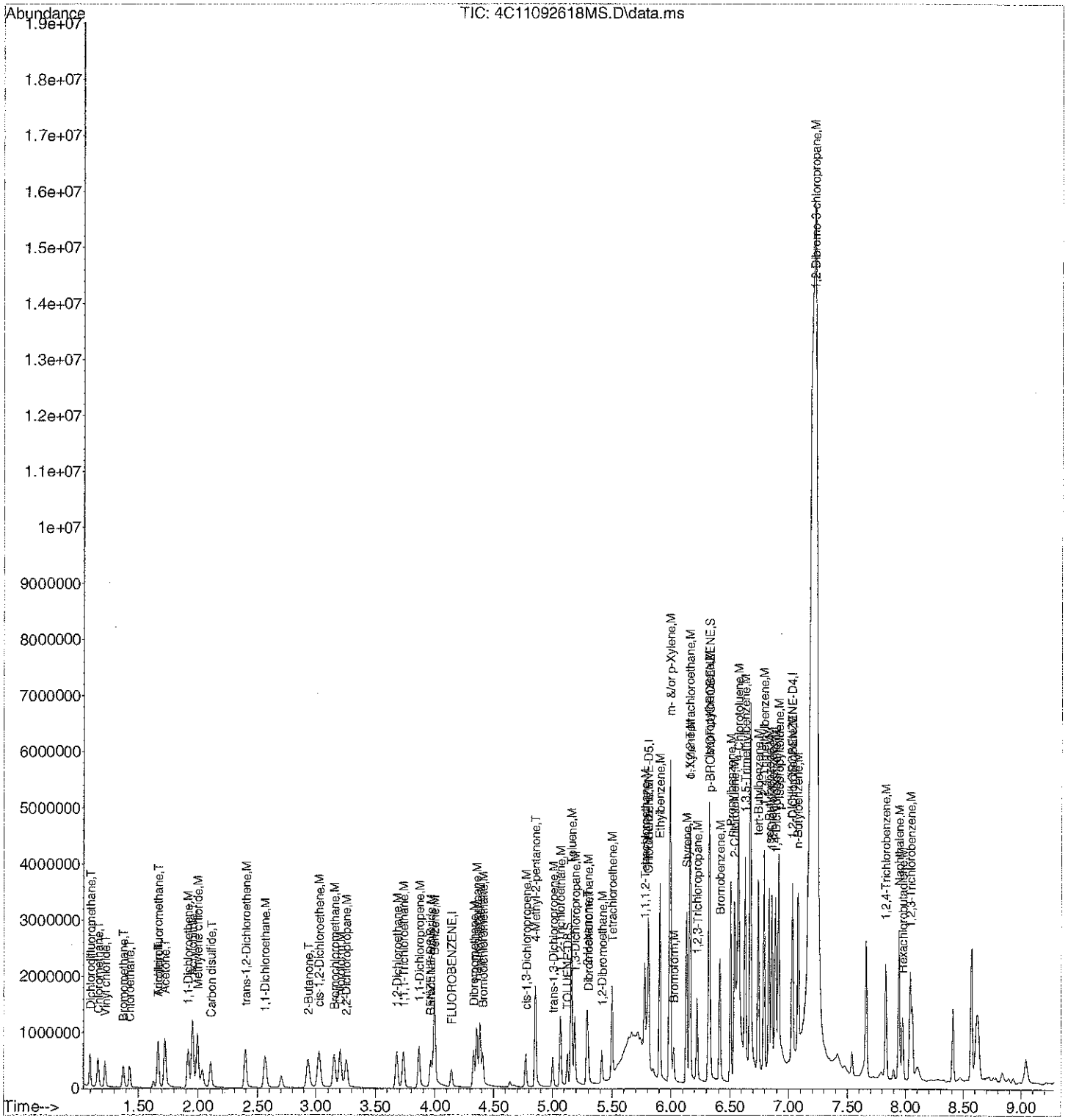
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
51) Isopropylbenzene	6.321	105	18629826	363.58 ng		99
53) 1,1,2,2-Tetrachloroethane	6.162	83	3441120	241.66 ng		99
54) 1,2,3-Trichloropropane	6.222	75	3041336	237.94 ng		99
55) Bromobenzene	6.415	156	3515441	223.12 ng		95
56) n-Propylbenzene	6.507	91	13365913	214.36 ng		98
57) 2-Chlorotoluene	6.540	91	9364239	223.68 ng		93
58) 4-Chlorotoluene	6.574	91	9972068	226.00 ng		99
59) 1,3,5-Trimethylbenzene	6.635	105	10534772	220.86 ng		99
60) tert-Butylbenzene	6.746	119	7971753	212.81 ng		97
61) 1,2,4-Trimethylbenzene	6.795	105	10715908	218.89 ng		100
62) sec-Butylbenzene	6.837	105	11444986	187.08 ng		99
63) p-Isopropyltoluene	6.916	119	9719470	200.73 ng	#	13
64) 1,3-Dichlorobenzene	6.862	146	6306709	214.30 ng		98
65) 1,4-Dichlorobenzene	6.890	146	6781944	206.87 ng		98
67) n-Butylbenzene	7.083	91	9594770	224.81 ng		93
68) 1,2-Dichlorobenzene	7.035	146	6491127	228.42 ng		99
69) 1,2-Dibromo-3-chloropr...	7.232	157	736657	240.39 ng	#	1
70) 1,2,4-Trichlorobenzene	7.834	180	3782876	238.69 ng		98
71) Hexachlorobutadiene	7.980	225	1359900	163.31 ng		98
72) Naphthalene	7.947	128	11005509	261.48 ng		99
73) 1,2,3-Trichlorobenzene	8.043	180	3581205	217.43 ng		97

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092618MS.D
Acq On : 26 Sep 2011 18:47
Operator : CTANG
Sample : B109064-MS1
Misc : 1109008-01 Filtrate Vial 2
ALS Vial : 18 Sample Multiplier: 1

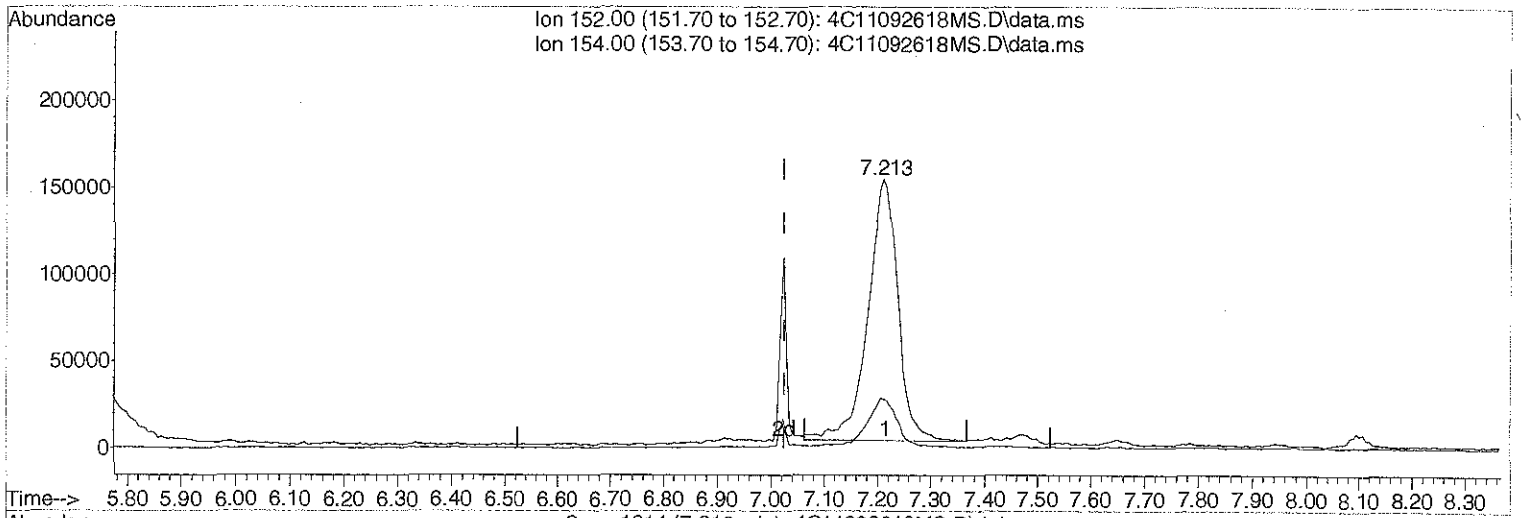
Quant Time: Sep 27 08:58:11 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

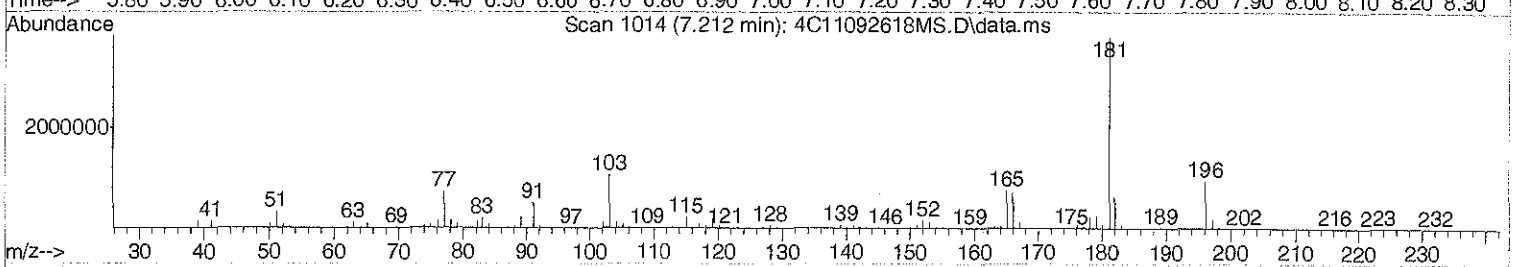


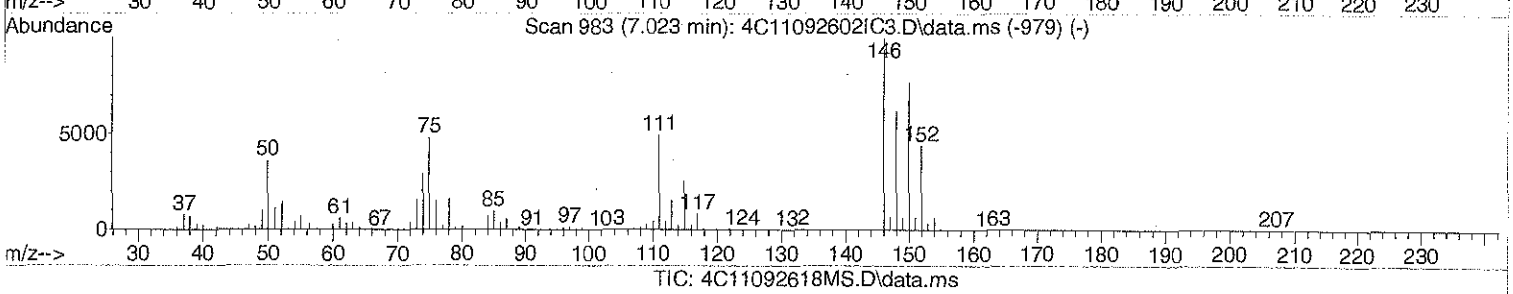
Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092618MS.D
Acq On : 26 Sep 2011 18:47
Operator : CTANG
Sample : B109064-MS1
Misc : 1109008-01 Filtrate Vial 2
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 26 18:57:18 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration







TIC: 4C11092618MS.D\data.ms

(66) 1,2-DICHLOROBENZENE-D4 (I)

7.215min (+0.191) 50.00ng

response 5947984

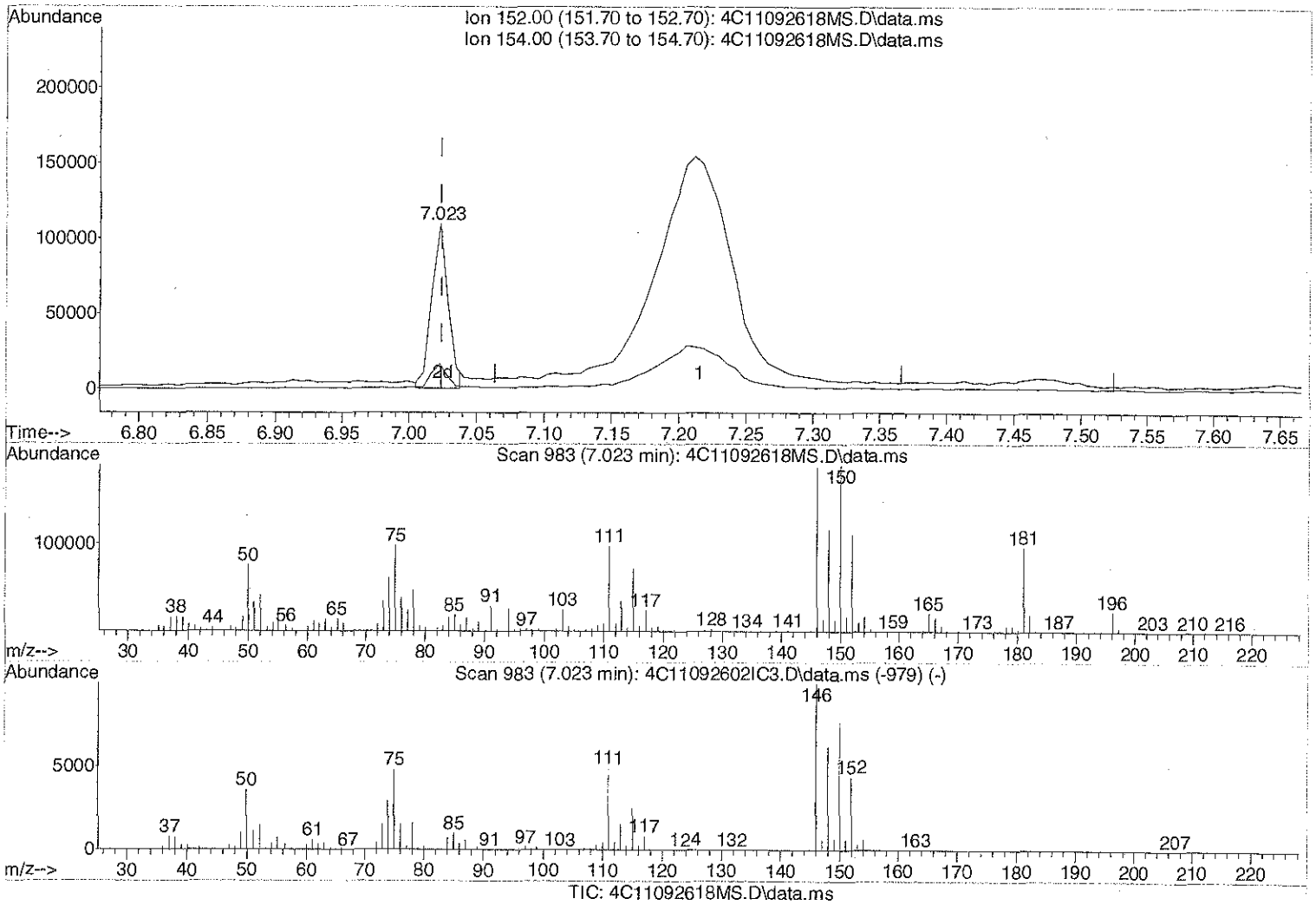
Ion	Exp%	Act%
152.00	100	100
154.00	15.50	19.44
0.00	0.00	0.00
0.00	0.00	0.00

before PA
CMT 10/27/11

Quantitation Report (Qedit)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092618MS.D
Acq On : 26 Sep 2011 18:47
Operator : CTANG
Sample : B109064-MS1
Misc : 1109008-01 Filtrate Vial 2
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 26 18:57:18 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration



(66) 1,2-DICHLOROBENZENE-D4 (I)

7.023min (-0.001) 50.00ng m

response 920039

Ion	Exp%	Act%
152.00	100	100
154.00	15.50	125.70#
0.00	0.00	0.00
0.00	0.00	0.00

after PA
CMY 10/27/11

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092619MSD.D
Acq On : 26 Sep 2011 19:09
Operator : CTANG
Sample : B109064-MSD1
Misc : 1109008-01 Filtrate Vial 3
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 26 19:18:33 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.141	96	1890871	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.795	82	1117675	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.025	152	920686	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.970	84	2148855	44.18 ng	0.00
34) TOLUENE-D8	5.128	98	1945962	48.87 ng	0.00
52) p-BROMOFLUOROBENZENE	6.332	95	869230	51.30 ng	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.097	85	1422997	102.77 ng	97
3) Chloromethane	1.166	50	2447771	162.11 ng	99
4) Vinyl chloride	1.227	62	1289036	173.00 ng	96
5) Bromomethane	1.377	94	1194985	173.29 ng	97
6) Chloroethane	1.432	64	1263992	165.28 ng	98
7) Trichlorofluoromethane	1.667	101	2288242	118.77 ng	100
8) Acrolein	1.668	56	172177	1186.56 ng	88
9) 1,1-Dichloroethene	1.919	96	2152242	261.27 ng	97
10) Acetone	1.724	43	7569657	1847.85 ng	100
11) Carbon disulfide	2.104	76	5951840	235.87 ng	99
12) Methylene chloride	1.998	84	2822603	252.48 ng	98
13) Acrylonitrile	1.956	53	7755037	1343.37 ng	98
14) trans-1,2-Dichloroethene	2.396	96	2404110	256.43 ng	98
15) 1,1-Dichloroethane	2.566	63	5329449	259.21 ng	99
16) 2-Butanone	2.934	43	7178532	1364.75 ng	94
17) cis-1,2-Dichloroethene	3.027	96	2709573	256.41 ng	98
18) 2,2-Dichloropropane	3.256	77	2863812	253.09 ng	96
19) Bromochloromethane	3.154	128	1375982	265.94 ng	96
20) Chloroform	3.204	83	4699800	247.85 ng	99
21) 1,1,1-Trichloroethane	3.734	97	3623276	243.68 ng	98
22) 1,1-Dichloropropene	3.867	75	3293095	261.72 ng	97
23) Carbon tetrachloride	3.964	117	1549134	206.97 ng	98
25) 1,2-Dichloroethane	3.678	62	3712538	248.94 ng	97
26) Benzene	3.998	78	10394887	265.51 ng	99
27) Trichloroethene	4.386	130	2514579	259.65 ng	98
28) 1,2-Dichloropropane	4.359	63	2804950	276.50 ng	99
29) Dibromomethane	4.332	174	1718778	266.07 ng	99
30) Bromodichloromethane	4.410	83	2194773	225.77 ng	98
31) 2-Chloroethyl vinyl ether	5.161	62	438287	258.25 ng	# 100
32) cis-1,3-Dichloropropene	4.776	75	1711413	245.63 ng	100
33) 4-Methyl-2-pentanone	4.857	43	7207650	549.14 ng	98
35) Toluene	5.162	91	12714538	275.40 ng	99
36) trans-1,3-Dichloropropene	5.005	75	1619377	244.13 ng	98
37) 1,1,2-Trichloroethane	5.071	97	2333534	275.73 ng	97
38) 1,3-Dichloropropane	5.190	76	3623019	264.53 ng	96
39) Tetrachloroethene	5.503	166	3079551	251.08 ng	100
40) 2-Hexanone	5.291	43	5005790	547.85 ng	97
41) Dibromochloromethane	5.304	129	1418584	219.75 ng	98
42) 1,2-Dibromoethane	5.417	107	2180802	272.60 ng	99
44) Chlorobenzene	5.810	112	7978476	266.29 ng	100
45) 1,1,1,2-Tetrachloroethane	5.778	131	2400910	251.82 ng	98
46) Ethylbenzene	5.905	91	14392979	279.84 ng	99
47) m- &/or p-Xylene	5.994	91	22723586	552.81 ng	98
48) o-Xylene	6.163	91	11802838	279.21 ng	99
49) Styrene	6.134	104	7980748	262.62 ng	98

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092619MSD.D
Acq On : 26 Sep 2011 19:09
Operator : CTANG
Sample : B109064-MSD1
Misc : 1109008-01 Filtrate Vial 3
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 26 19:18:33 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

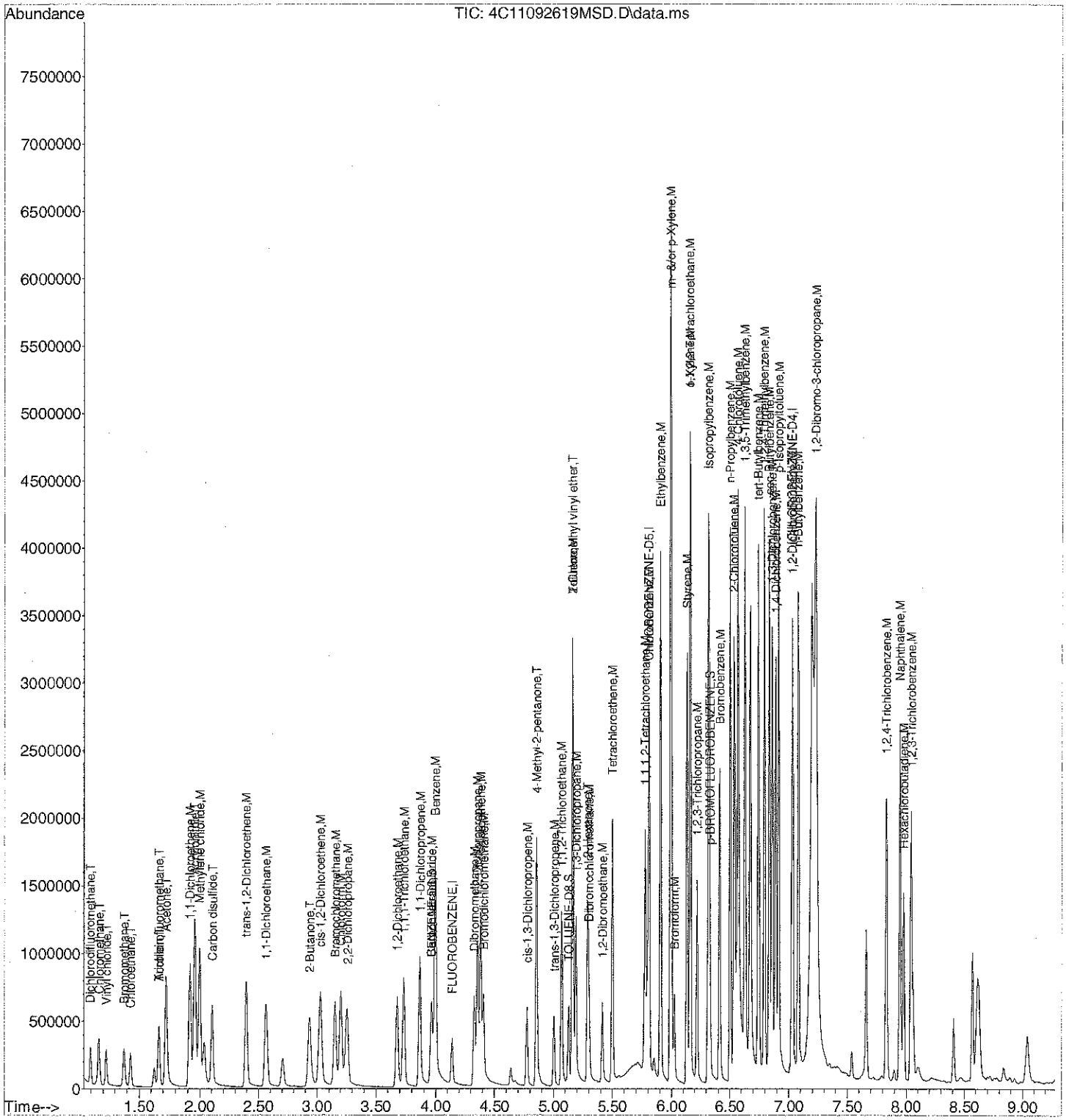
Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
50) Bromoform	6.025	173	1499529	233.91 ng		99
51) Isopropylbenzene	6.321	105	16077302	349.58 ng		99
53) 1,1,2,2-Tetrachloroethane	6.162	83	3506670	274.37 ng		99
54) 1,2,3-Trichloropropane	6.222	75	3097666	270.01 ng		99
55) Bromobenzene	6.415	156	3760178	265.90 ng		97
56) n-Propylbenzene	6.507	91	15417364	275.49 ng		99
57) 2-Chlorotoluene	6.540	91	10060142	267.73 ng		94
58) 4-Chlorotoluene	6.574	91	10636643	268.58 ng		99
59) 1,3,5-Trimethylbenzene	6.634	105	11615642	271.32 ng		99
60) tert-Butylbenzene	6.746	119	9169816	272.73 ng		98
61) 1,2,4-Trimethylbenzene	6.795	105	11629346	264.67 ng		100
62) sec-Butylbenzene	6.837	105	13779993	250.96 ng		99
63) p-Isopropyltoluene	6.916	119	11105725	255.54 ng	#	90
64) 1,3-Dichlorobenzene	6.862	146	6608789	250.20 ng		99
65) 1,4-Dichlorobenzene	6.890	146	7040694	239.28 ng		99
67) n-Butylbenzene	7.083	91	10656147	249.50 ng		99
68) 1,2-Dichlorobenzene	7.035	146	7033264	247.32 ng		99
69) 1,2-Dibromo-3-chloropr...	7.232	157	740783	241.56 ng	#	69
70) 1,2,4-Trichlorobenzene	7.834	180	4022900	253.66 ng		100
71) Hexachlorobutadiene	7.979	225	1726929	207.24 ng		98
72) Naphthalene	7.948	128	11240987	266.89 ng		99
73) 1,2,3-Trichlorobenzene	8.043	180	3730613	226.34 ng		97

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092619MSD.D
Acq On : 26 Sep 2011 19:09
Operator : CTANG
Sample : B109064-MSD1
Misc : 1109008-01 Filtrate Vial 3
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 26 19:18:33 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092602IC3.D
Acq On : 26 Sep 2011 12:27
Operator : CTANG
Sample : B109064-BS1
Misc : LIMS # 1090912/1092601, IC at 250 NG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 26 14:59:25 2011
Quant Method : D:\Ctang\Methods\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.143	96	1667865	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.794	82	966339	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.024	152	812841	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.973	84	1821558	42.45 ng	0.00
34) TOLUENE-D8	5.128	98	1741172	49.57 ng	0.00
52) p-BROMOFLUOROBENZENE	6.331	95	826108	56.39 ng	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.106	85	3052617	249.94 ng	98
3) Chloromethane	1.172	50	3215000	241.39 ng	99
4) Vinyl chloride	1.234	62	1959079	298.07 ng	97
5) Bromomethane	1.385	94	1278874	210.26 ng	100
6) Chloroethane	1.440	64	1702643	252.41 ng	98
7) Trichlorofluoromethane	1.675	101	4205894	247.50 ng	100
8) Acrolein	1.676	56	155316	1213.48 ng	81
9) 1,1-Dichloroethene	1.926	96	1667962	229.55 ng	100
10) Acetone	1.732	43	3968283	1098.23 ng	98
11) Carbon disulfide	2.111	76	4978096	223.66 ng	100
12) Methylene chloride	2.006	84	2241927	227.35 ng	98
13) Acrylonitrile	1.964	53	5513414	1082.76 ng	99
14) trans-1,2-Dichloroethene	2.403	96	1835065	221.91 ng	# 57
15) 1,1-Dichloroethane	2.572	63	4149826	228.83 ng	98
16) 2-Butanone	2.940	43	4818803	1038.62 ng	99
17) cis-1,2-Dichloroethene	3.033	96	2071363	222.22 ng	97
18) 2,2-Dichloropropane	3.260	77	2247442	225.17 ng	99
19) Bromochloromethane	3.160	128	1091357	239.13 ng	98
20) Chloroform	3.209	83	3805648	227.53 ng	99
21) 1,1,1-Trichloroethane	3.738	97	2988244	227.84 ng	98
22) 1,1-Dichloropropene	3.869	75	2452427	220.97 ng	99
23) Carbon tetrachloride	3.966	117	1390249	210.58 ng	98
25) 1,2-Dichloroethane	3.681	62	2977133	226.32 ng	96
26) Benzene	4.000	78	7857758	227.54 ng	99
27) Trichloroethene	4.387	130	1929772	225.91 ng	99
28) 1,2-Dichloropropane	4.360	63	2088758	233.43 ng	97
29) Dibromomethane	4.334	174	1340307	235.22 ng	99
30) Bromodichloromethane	4.411	83	1925157	224.52 ng	96
32) cis-1,3-Dichloropropene	4.776	75	1385796	225.49 ng	97
33) 4-Methyl-2-pentanone	4.858	43	5156246	445.37 ng	99
35) Toluene	5.162	91	9404891	230.95 ng	98
36) trans-1,3-Dichloropropene	5.005	75	1364475	233.20 ng	98
37) 1,1,2-Trichloroethane	5.072	97	1803235	241.56 ng	98
38) 1,3-Dichloropropane	5.190	76	2899257	239.99 ng	100
39) Tetrachloroethene	5.503	166	2475697	228.83 ng	98
40) 2-Hexanone	5.290	43	3538645	439.06 ng	98
41) Dibromochloromethane	5.304	129	1442278	253.30 ng	99
42) 1,2-Dibromoethane	5.416	107	1696317	240.39 ng	100
44) Chlorobenzene	5.809	112	6398225	246.99 ng	98
45) 1,1,1,2-Tetrachloroethane	5.777	131	2101788	254.97 ng	100
46) Ethylbenzene	5.904	91	11089279	249.37 ng	100
47) m- &/or p-Xylene	5.993	91	18114805	509.71 ng	100
48) o-Xylene	6.162	91	9293527	254.28 ng	100
49) Styrene	6.133	104	6857726	261.01 ng	95
50) Bromoform	6.024	173	1487159	268.31 ng	96

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092602IC3.D
Acq On : 26 Sep 2011 12:27
Operator : CTANG
Sample : B109064-BS1
Misc : LIMS # 1090912/1092601, IC at 250 NG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 26 14:59:25 2011
Quant Method : D:\Ctang\Methods\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

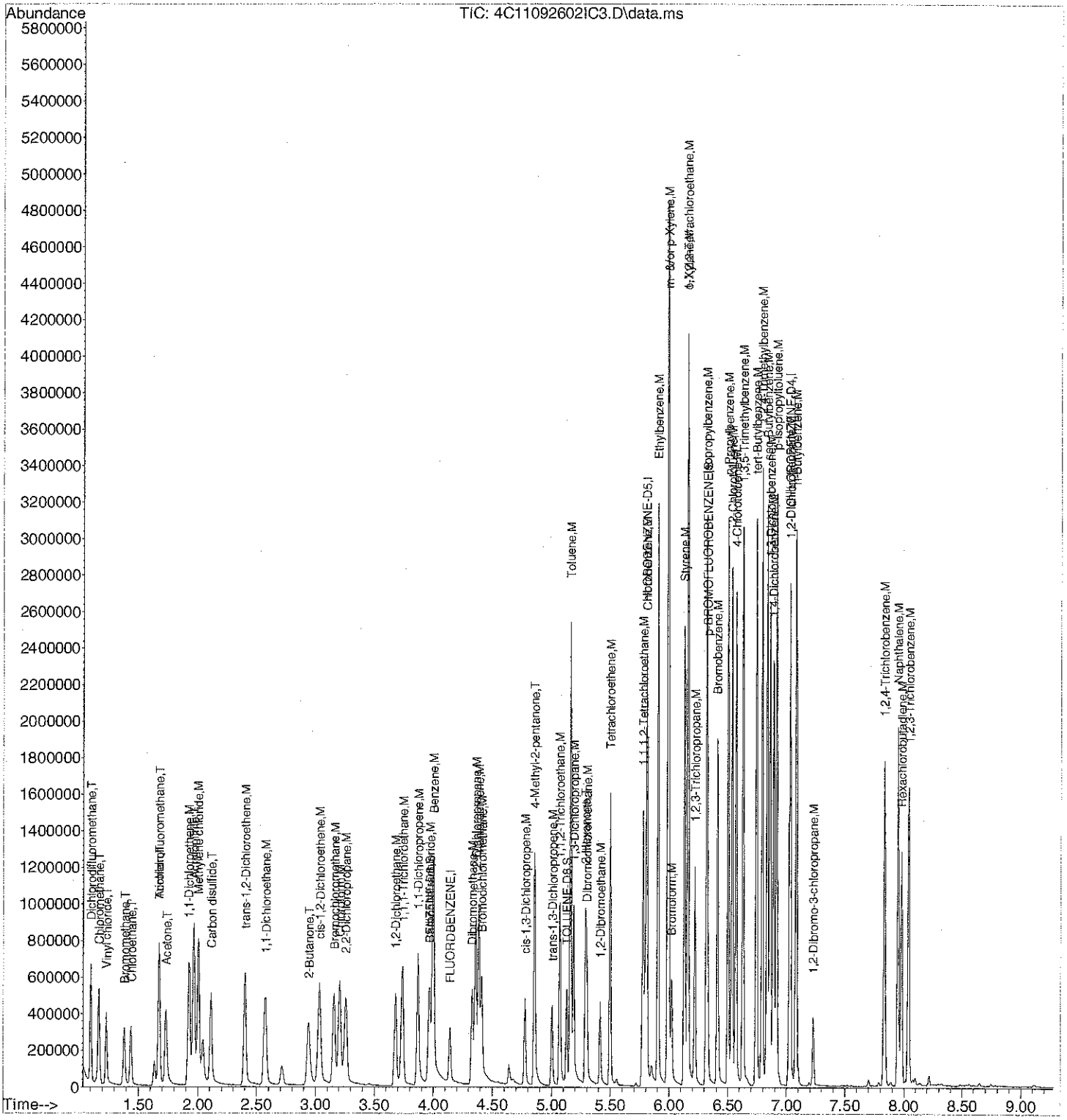
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.320	105	10052059	252.80 ng	99
53) 1,1,2,2-Tetrachloroethane	6.161	83	2754278	249.25 ng	99
54) 1,2,3-Trichloropropane	6.221	75	2411416	243.11 ng	99
55) Bromobenzene	6.414	156	3014866	246.58 ng	99
56) n-Propylbenzene	6.506	91	12269159	253.57 ng	98
57) 2-Chlorotoluene	6.539	91	7967028	245.23 ng	94
58) 4-Chlorotoluene	6.573	91	8252714	241.02 ng	100
59) 1,3,5-Trimethylbenzene	6.634	105	9169744	247.73 ng	99
60) tert-Butylbenzene	6.745	119	7296963	251.02 ng	99
61) 1,2,4-Trimethylbenzene	6.794	105	9376496	246.82 ng	99
62) sec-Butylbenzene	6.836	105	11323082	238.51 ng	99
63) p-Isopropyltoluene	6.915	119	9211967	245.16 ng	99
64) 1,3-Dichlorobenzene	6.861	146	5450331	238.66 ng	98
65) 1,4-Dichlorobenzene	6.889	146	5803083	228.11 ng	99
67) n-Butylbenzene	7.082	91	8335795	221.07 ng	100
68) 1,2-Dichlorobenzene	7.033	146	5427854	216.19 ng	99
69) 1,2-Dibromo-3-chloropr...	7.230	157	581593	214.82 ng	96
70) 1,2,4-Trichlorobenzene	7.833	180	3186304	227.56 ng	98
71) Hexachlorobutadiene	7.979	225	1542284	209.63 ng	100
72) Naphthalene	7.947	128	7921727	213.04 ng	100
73) 1,2,3-Trichlorobenzene	8.042	180	3116482	214.17 ng	99

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092602IC3.D
Acq On : 26 Sep 2011 12:27
Operator : CTANG
Sample : B109064-BS1
Misc : LIMS # 1090912/1092601, IC at 250 NG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 26 14:59:25 2011
Quant Method : D:\Ctang\Methods\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092602IC3.D
Acq On : 26 Sep 2011 12:27
Operator : CTANG
Sample : B109064-BS1
Misc : LIMS # 1090912/1092601, IC at 250 NG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 26 14:59:25 2011
Quant Method : D:\Ctang\Methods\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE	50.000	50.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	250.000	249.942	0.0	100	0.00
3	T	Chloromethane	250.000	241.394	3.4	100	0.00
4	T	Vinyl chloride	250.000	298.073	-19.2	100	0.00
5	T	Bromomethane	250.000	210.257	15.9	100	0.00
6	T	Chloroethane	250.000	252.413	-1.0	100	0.00
7	T	Trichlorofluoromethane	250.000	247.499	1.0	100	0.00
8	T	Acrolein	1250.000	1213.476	2.9	100	0.00
9	M	1,1-Dichloroethene	250.000	229.552	8.2	100	0.00
10	T	Acetone	1250.000	1098.233	12.1	100	0.00
11	T	Carbon disulfide	250.000	223.658	10.5	100	0.00
12	M	Methylene chloride	250.000	227.351	9.1	100	0.00
13	T	Acrylonitrile	1250.000	1082.764	13.4	99	0.00
14	M	trans-1,2-Dichloroethene	250.000	221.906	11.2	103	0.00
15	M	1,1-Dichloroethane	250.000	228.827	8.5	100	0.00
16	T	2-Butanone	1250.000	1038.619	16.9	100	0.00
17	M	cis-1,2-Dichloroethene	250.000	222.223	11.1	100	0.00
18	M	2,2-Dichloropropane	250.000	225.173	9.9	100	0.00
19	M	Bromochloromethane	250.000	239.132	4.3	102	0.00
20	M	Chloroform	250.000	227.527	9.0	100	0.00
21	M	1,1,1-Trichloroethane	250.000	227.843	8.9	99	0.00
22	M	1,1-Dichloropropene	250.000	220.969	11.6	100	0.00
23	M	Carbon tetrachloride	250.000	210.578	15.8	100	0.00
24	S	BENZENE-D6	50.000	42.454	15.1	99	0.00
25	M	1,2-Dichloroethane	250.000	226.322	9.5	99	0.00
26	M	Benzene	250.000	227.540	9.0	99	0.00
27	M	Trichloroethene	250.000	225.910	9.6	99	0.00
28	M	1,2-Dichloropropane	250.000	233.434	6.6	100	0.00
29	M	Dibromomethane	250.000	235.223	5.9	100	0.00
30	M	Bromodichloromethane	250.000	224.517	10.2	100	0.00
31	T	2-Chloroethyl vinyl ether	250.000	0.000	100.0#	0	-5.16#
32	M	cis-1,3-Dichloropropene	250.000	225.494	9.8	100	0.00
33	T	4-Methyl-2-pentanone	500.000	445.372	10.9	100	0.00
34	S	TOLUENE-D8	50.000	49.570	0.9	100	0.00
35	M	Toluene	250.000	230.952	7.6	100	0.00
36	M	trans-1,3-Dichloropropene	250.000	233.203	6.7	100	0.00
37	M	1,1,2-Trichloroethane	250.000	241.561	3.4	100	0.00
38	M	1,3-Dichloropropane	250.000	239.988	4.0	100	0.00
39	M	Tetrachloroethene	250.000	228.831	8.5	100	0.00
40	T	2-Hexanone	500.000	439.062	12.2	100	0.00
41	M	Dibromochloromethane	250.000	253.295	-1.3	100	0.00
42	M	1,2-Dibromoethane	250.000	240.390	3.8	100	0.00
43	I	CHLOROBENZENE-D5	50.000	50.000	0.0	100	0.00
44	M	Chlorobenzene	250.000	246.989	1.2	100	0.00
45	M	1,1,1,2-Tetrachloroethane	250.000	254.967	-2.0	100	0.00
46	M	Ethylbenzene	250.000	249.371	0.3	100	0.00
47	M	m- &/or p-Xylene	500.000	509.709	-1.9	100	0.00
48	M	o-Xylene	250.000	254.277	-1.7	100	0.00
49	M	Styrene	250.000	261.009	-4.4	100	0.00
50	M	Bromoform	250.000	268.312	-7.3	100	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092602IC3.D
Acq On : 26 Sep 2011 12:27
Operator : CTANG
Sample : B109064-BS1
Misc : LIMS # 1090912/1092601, IC at 250 NG
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 26 14:59:25 2011
Quant Method : D:\Ctang\Methods\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	M	Isopropylbenzene	250.000	252.798	-1.1	100	0.00
52	S	p-BROMOFLUOROBENZENE	50.000	56.388	-12.8	100	0.00
53	M	1,1,2,2-Tetrachloroethane	250.000	249.250	0.3	100	0.00
54	M	1,2,3-Trichloropropane	250.000	243.110	2.8	100	0.00
55	M	Bromobenzene	250.000	246.583	1.4	100	0.00
56	M	n-Propylbenzene	250.000	253.571	-1.4	100	0.00
57	M	2-Chlorotoluene	250.000	245.231	1.9	100	0.00
58	M	4-Chlorotoluene	250.000	241.015	3.6	100	0.00
59	M	1,3,5-Trimethylbenzene	250.000	247.732	0.9	100	0.00
60	M	tert-Butylbenzene	250.000	251.019	-0.4	100	0.00
61	M	1,2,4-Trimethylbenzene	250.000	246.818	1.3	100	0.00
62	M	sec-Butylbenzene	250.000	238.514	4.6	100	0.00
63	M	p-Isopropyltoluene	250.000	245.162	1.9	100	0.00
64	M	1,3-Dichlorobenzene	250.000	238.660	4.5	100	0.00
65	M	1,4-Dichlorobenzene	250.000	228.105	8.8	100	0.00
66	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	100	0.00
67	M	n-Butylbenzene	250.000	221.070	11.6	100	0.00
68	M	1,2-Dichlorobenzene	250.000	216.194	13.5	100	0.00
69	M	1,2-Dibromo-3-chloropropane	250.000	214.816	14.1	100	0.00
70	M	1,2,4-Trichlorobenzene	250.000	227.561	9.0	100	0.00
71	M	Hexachlorobutadiene	250.000	209.633	16.1	100	0.00
72	M	Naphthalene	250.000	213.036	14.8	100	0.00
73	M	1,2,3-Trichlorobenzene	250.000	214.165	14.3	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092620BSD.D
Acq On : 26 Sep 2011 19:30
Operator : CTANG
Sample : B109064-BSD1
Misc : B109064-BSD1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 27 09:00:38 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.141	96	1778111	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.795	82	1040363	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.026	152	865419	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.971	84	2166690	47.37 ng	0.00
34) TOLUENE-D8	5.128	98	1973687	52.71 ng	0.00
52) p-BROMOFLUOROBENZENE	6.332	95	857425	54.36 ng	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.097	85	3373971	259.13 ng	99
3) Chloromethane	1.166	50	3879066	273.20 ng	100
4) Vinyl chloride	1.227	62	2300064	328.26 ng	98
5) Bromomethane	1.377	94	1822133	281.00 ng	99
6) Chloroethane	1.432	64	2136909	297.15 ng	97
7) Trichlorofluoromethane	1.667	101	4734592	261.34 ng	99
8) Acrolein	1.668	56	201499	1476.70 ng	89
9) 1,1-Dichloroethene	1.919	96	2162266	279.13 ng	98
10) Acetone	1.724	43	6914892	1795.06 ng	97
11) Carbon disulfide	2.104	76	6122778	258.03 ng	99
12) Methylene chloride	1.998	84	2781390	264.57 ng	98
13) Acrylonitrile	1.956	53	7561543	1392.92 ng	99
14) trans-1,2-Dichloroethene	2.396	96	2455117	278.48 ng	97
15) 1,1-Dichloroethane	2.566	63	5417337	280.20 ng	99
16) 2-Butanone	2.934	43	7377400	1491.50 ng	100
17) cis-1,2-Dichloroethene	3.027	96	2869584	288.77 ng	96
18) 2,2-Dichloropropane	3.256	77	2811262	264.20 ng	98
19) Bromochloromethane	3.155	128	1311153	269.48 ng	93
20) Chloroform	3.204	83	4707074	263.97 ng	99
21) 1,1,1-Trichloroethane	3.735	97	3729425	266.73 ng	99
22) 1,1-Dichloropropene	3.867	75	3358650	283.86 ng	98
23) Carbon tetrachloride	3.964	117	1686337	239.59 ng	100
25) 1,2-Dichloroethane	3.678	62	3614884	257.77 ng	95
26) Benzene	3.997	78	10361243	281.43 ng	98
27) Trichloroethene	4.386	130	2580348	283.34 ng	98
28) 1,2-Dichloropropane	4.359	63	2832007	296.87 ng	96
29) Dibromomethane	4.332	174	1691872	278.51 ng	98
30) Bromodichloromethane	4.410	83	2206026	241.32 ng	99
32) cis-1,3-Dichloropropene	4.776	75	1743064	266.04 ng	100
33) 4-Methyl-2-pentanone	4.857	43	7089304	574.37 ng	98
35) Toluene	5.162	91	12656176	291.52 ng	100
36) trans-1,3-Dichloropropene	5.005	75	1694958	271.73 ng	98
37) 1,1,2-Trichloroethane	5.072	97	2325149	292.16 ng	99
38) 1,3-Dichloropropane	5.190	76	3697019	287.05 ng	98
39) Tetrachloroethene	5.503	166	3162939	274.23 ng	99
40) 2-Hexanone	5.291	43	4904696	570.82 ng	96
41) Dibromochloromethane	5.304	129	1483703	244.41 ng	99
42) 1,2-Dibromoethane	5.417	107	2155900	286.58 ng	96
44) Chlorobenzene	5.810	112	8017169	287.46 ng	99
45) 1,1,1,2-Tetrachloroethane	5.778	131	2419529	272.63 ng	100
46) Ethylbenzene	5.905	91	14468086	302.20 ng	99
47) m- &/or p-Xylene	5.993	91	22925522	599.17 ng	98
48) o-Xylene	6.163	91	11813230	300.22 ng	98
49) Styrene	6.134	104	8082761	285.75 ng	98
50) Bromoform	6.025	173	1494648	250.48 ng	99

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092620BSD.D
Acq On : 26 Sep 2011 19:30
Operator : CTANG
Sample : B109064-BSD1
Misc : B109064-BSD1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 27 09:00:38 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

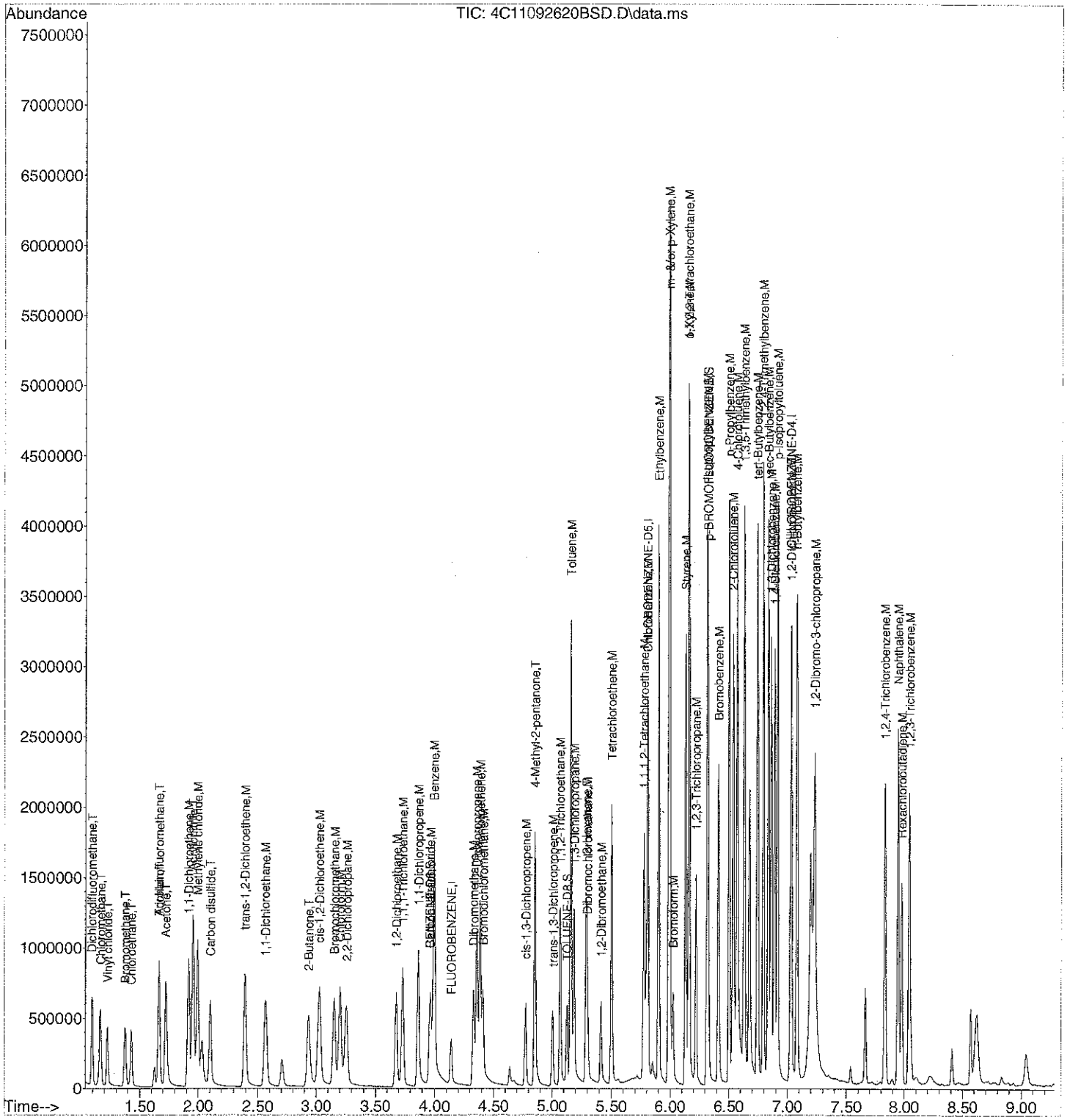
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.321	105	14874539	347.46 ng	100
53) 1,1,2,2-Tetrachloroethane	6.162	83	3393389	285.24 ng	99
54) 1,2,3-Trichloropropane	6.222	75	3077476	288.18 ng	99
55) Bromobenzene	6.415	156	3700666	281.14 ng	97
56) n-Propylbenzene	6.507	91	15738017	302.12 ng	98
57) 2-Chlorotoluene	6.540	91	10032941	286.85 ng	94
58) 4-Chlorotoluene	6.574	91	10422777	282.73 ng	99
59) 1,3,5-Trimethylbenzene	6.635	105	11654333	292.45 ng	98
60) tert-Butylbenzene	6.746	119	9344599	298.59 ng	97
61) 1,2,4-Trimethylbenzene	6.795	105	11713475	286.40 ng	100
62) sec-Butylbenzene	6.837	105	13971768	273.37 ng	99
63) p-Isopropyltoluene	6.916	119	11291075	279.11 ng	98
64) 1,3-Dichlorobenzene	6.862	146	6572101	267.30 ng	99
65) 1,4-Dichlorobenzene	6.890	146	7148072	260.98 ng	99
67) n-Butylbenzene	7.083	91	10215954	254.47 ng	100
68) 1,2-Dichlorobenzene	7.035	146	6725518	251.61 ng	99
69) 1,2-Dibromo-3-chloropr...	7.232	157	721048	250.14 ng	90
70) 1,2,4-Trichlorobenzene	7.834	180	4000914	268.38 ng	99
71) Hexachlorobutadiene	7.980	225	1812644	231.41 ng	97
72) Naphthalene	7.948	128	11087535	280.06 ng	100
73) 1,2,3-Trichlorobenzene	8.044	180	3797225	245.09 ng	98

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092620BSD.D
Acq On : 26 Sep 2011 19:30
Operator : CTANG
Sample : B109064-BSD1
Misc : B109064-BSD1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 27 09:00:38 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092620BSD.D
Acq On : 26 Sep 2011 19:30
Operator : CTANG
Sample : B109064-BSD1
Misc : B109064-BSD1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 27 09:00:38 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE	50.000	50.000	0.0	107	0.00
2	T	Dichlorodifluoromethane	250.000	259.126	-3.7	111	0.00
3	T	Chloromethane	250.000	273.197	-9.3	121	0.00
4	T	Vinyl chloride	250.000	328.256	-31.3#	117	0.00
5	T	Bromomethane	250.000	280.999	-12.4	142	0.00
6	T	Chloroethane	250.000	297.151	-18.9	126	0.00
7	T	Trichlorofluoromethane	250.000	261.336	-4.5	113	0.00
8	T	Acrolein	1250.000	1476.699	-18.1	130	0.00
9	M	1,1-Dichloroethene	250.000	279.129	-11.7	130	0.00
10	T	Acetone	1250.000	1795.062	-43.6#	174	0.00
11	T	Carbon disulfide	250.000	258.030	-3.2	123	0.00
12	M	Methylene chloride	250.000	264.570	-5.8	124	0.00
13	T	Acrylonitrile	1250.000	1392.919	-11.4	136	0.00
14	M	trans-1,2-Dichloroethene	250.000	278.479	-11.4	137	0.00
15	M	1,1-Dichloroethane	250.000	280.199	-12.1	131	0.00
16	T	2-Butanone	1250.000	1491.498	-19.3	153	0.00
17	M	cis-1,2-Dichloroethene	250.000	288.771	-15.5	139	0.00
18	M	2,2-Dichloropropane	250.000	264.199	-5.7	124	0.00
19	M	Bromochloromethane	250.000	269.480	-7.8	123	0.00
20	M	Chloroform	250.000	263.972	-5.6	123	0.00
21	M	1,1,1-Trichloroethane	250.000	266.725	-6.7	124	0.00
22	M	1,1-Dichloropropene	250.000	283.859	-13.5	137	0.00
23	M	Carbon tetrachloride	250.000	239.590	4.2	121	0.00
24	S	BENZENE-D6	50.000	47.366	5.3	118	0.00
25	M	1,2-Dichloroethane	250.000	257.766	-3.1	121	0.00
26	M	Benzene	250.000	281.432	-12.6	131	0.00
27	M	Trichloroethene	250.000	283.341	-13.3	133	0.00
28	M	1,2-Dichloropropane	250.000	296.874	-18.7	136	0.00
29	M	Dibromomethane	250.000	278.513	-11.4	126	0.00
30	M	Bromodichloromethane	250.000	241.321	3.5	115	0.00
31	T	2-Chloroethyl vinyl ether	250.000	0.000	100.0#	0	-5.16#
32	M	cis-1,3-Dichloropropene	250.000	266.042	-6.4	126	0.00
33	T	4-Methyl-2-pentanone	500.000	574.374	-14.9	137	0.00
34	S	TOLUENE-D8	50.000	52.705	-5.4	113	0.00
35	M	Toluene	250.000	291.523	-16.6	135	0.00
36	M	trans-1,3-Dichloropropene	250.000	271.725	-8.7	124	0.00
37	M	1,1,2-Trichloroethane	250.000	292.164	-16.9	129	0.00
38	M	1,3-Dichloropropane	250.000	287.049	-14.8	128	0.00
39	M	Tetrachloroethene	250.000	274.227	-9.7	128	0.00
40	T	2-Hexanone	500.000	570.825	-14.2	139	0.00
41	M	Dibromochloromethane	250.000	244.414	2.2	103	0.00
42	M	1,2-Dibromoethane	250.000	286.577	-14.6	127	0.00
43	I	CHLOROBENZENE-D5	50.000	50.000	0.0	108	0.00
44	M	Chlorobenzene	250.000	287.464	-15.0	125	0.00
45	M	1,1,1,2-Tetrachloroethane	250.000	272.628	-9.1	115	0.00
46	M	Ethylbenzene	250.000	302.203	-20.9	130	0.00
47	M	m- &/or p-Xylene	500.000	599.173	-19.8	127	0.00
48	M	o-Xylene	250.000	300.220	-20.1	127	0.00
49	M	Styrene	250.000	285.746	-14.3	118	0.00
50	M	Bromoform	250.000	250.476	-0.2	101	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092620BSD.D
Acq On : 26 Sep 2011 19:30
Operator : CTANG
Sample : B109064-BSD1
Misc : B109064-BSD1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 27 09:00:38 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	M	Isopropylbenzene	250.000	347.461	-39.0#	148	0.00
52	S	p-BROMOFLUOROBENZENE	50.000	54.362	-8.7	104	0.00
53	M	1,1,2,2-Tetrachloroethane	250.000	285.237	-14.1	123	0.00
54	M	1,2,3-Trichloropropane	250.000	288.184	-15.3	128	0.00
55	M	Bromobenzene	250.000	281.138	-12.5	123	0.00
56	M	n-Propylbenzene	250.000	302.120	-20.8	128	0.00
57	M	2-Chlorotoluene	250.000	286.848	-14.7	126	0.00
58	M	4-Chlorotoluene	250.000	282.732	-13.1	126	0.00
59	M	1,3,5-Trimethylbenzene	250.000	292.453	-17.0	127	0.00
60	M	tert-Butylbenzene	250.000	298.586	-19.4	128	0.00
61	M	1,2,4-Trimethylbenzene	250.000	286.395	-14.6	125	0.00
62	M	sec-Butylbenzene	250.000	273.366	-9.3	123	0.00
63	M	p-Isopropyltoluene	250.000	279.114	-11.6	123	0.00
64	M	1,3-Dichlorobenzene	250.000	267.304	-6.9	121	0.00
65	M	1,4-Dichlorobenzene	250.000	260.982	-4.4	123	0.00
66	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	106	0.00
67	M	n-Butylbenzene	250.000	254.472	-1.8	123	0.00
68	M	1,2-Dichlorobenzene	250.000	251.606	-0.6	124	0.00
69	M	1,2-Dibromo-3-chloropropane	250.000	250.145	-0.1	124	0.00
70	M	1,2,4-Trichlorobenzene	250.000	268.380	-7.4	126	0.00
71	M	Hexachlorobutadiene	250.000	231.413	7.4	118	0.00
72	M	Naphthalene	250.000	280.057	-12.0	140	0.00
73	M	1,2,3-Trichlorobenzene	250.000	245.093	2.0	122	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092703CCV.D
Acq On : 27 Sep 2011 12:37
Operator : CTANG
Sample : B109064-BS2
Misc : LIMS # 1090912/1092601, 1% Methanol Added
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 16:25:40 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.138	96	1905995	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.794	82	1064553	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.025	152	887411	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.967	84	2154884	43.95 ng	0.00
34) TOLUENE-D8	5.127	98	1940310	48.34 ng	0.00
52) p-BROMOFLUOROBENZENE	6.331	95	835909	51.79 ng	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.093	85	2966161	212.52 ng	96
3) Chloromethane	1.160	50	3739908	245.72 ng	100
4) Vinyl chloride	1.215	62	600264	79.92 ng	97
5) Bromomethane	1.366	94	776500	111.71 ng	99
6) Chloroethane	1.421	64	1391535	180.52 ng	98
7) Trichlorofluoromethane	1.657	101	4252449	218.97 ng	99
8) Acrolein	1.668	56	149027	1018.87 ng	80
9) 1,1-Dichloroethene	1.911	96	2101451	253.08 ng	100
10) Acetone	1.725	43	4991749	1208.88 ng	98
11) Carbon disulfide	2.095	76	5815586	228.64 ng	99
12) Methylene chloride	1.992	84	2669094	236.85 ng	96
13) Acrylonitrile	1.954	53	7281780	1251.38 ng	100
14) trans-1,2-Dichloroethene	2.389	96	2373780	251.19 ng	98
15) 1,1-Dichloroethane	2.559	63	5177011	249.80 ng	98
16) 2-Butanone	2.937	43	6670067	1258.02 ng	95
17) cis-1,2-Dichloroethene	3.020	96	2729923	256.28 ng	98
18) 2,2-Dichloropropane	3.250	77	3015032	264.34 ng	97
19) Bromochloromethane	3.149	128	1317972	252.71 ng	97
20) Chloroform	3.199	83	4568765	239.02 ng	98
21) 1,1,1-Trichloroethane	3.730	97	3596424	239.96 ng	98
22) 1,1-Dichloropropene	3.862	75	3289092	259.33 ng	99
23) Carbon tetrachloride	3.959	117	1726171	228.79 ng	98
25) 1,2-Dichloroethane	3.674	62	3733230	248.34 ng	96
26) Benzene	3.994	78	10309457	261.24 ng	98
27) Trichloroethene	4.383	130	2503758	256.48 ng	98
28) 1,2-Dichloropropane	4.356	63	2772139	271.10 ng	99
29) Dibromomethane	4.330	174	1789854	274.87 ng	98
30) Bromodichloromethane	4.409	83	2174825	221.95 ng	99
32) cis-1,3-Dichloropropene	4.774	75	1805816	257.13 ng	99
33) 4-Methyl-2-pentanone	4.858	43	6572759	496.79 ng	98
35) Toluene	5.160	91	12061519	259.19 ng	100
36) trans-1,3-Dichloropropene	5.003	75	1743173	260.70 ng	97
37) 1,1,2-Trichloroethane	5.071	97	2294201	268.93 ng	100
38) 1,3-Dichloropropane	5.189	76	3658944	265.03 ng	97
39) Tetrachloroethene	5.501	166	3155019	255.19 ng	99
40) 2-Hexanone	5.292	43	4541664	493.11 ng	97
41) Dibromochloromethane	5.303	129	1520063	233.60 ng	99
42) 1,2-Dibromoethane	5.415	107	2143110	265.76 ng	100
44) Chlorobenzene	5.809	112	8001940	280.40 ng	99
45) 1,1,1,2-Tetrachloroethane	5.777	131	2400712	264.36 ng	98
46) Ethylbenzene	5.904	91	14081980	287.45 ng	99
47) m- &/or p-Xylene	5.992	91	22532991	575.53 ng	99
48) o-Xylene	6.162	91	11528986	286.34 ng	98
49) Styrene	6.133	104	8598751	297.08 ng	95
50) Bromoform	6.024	173	1530635	250.68 ng	99

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092703CCV.D
Acq On : 27 Sep 2011 12:37
Operator : CTANG
Sample : B109064-BS2
Misc : LIMS # 1090912/1092601, 1% Methanol Added
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 16:25:40 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

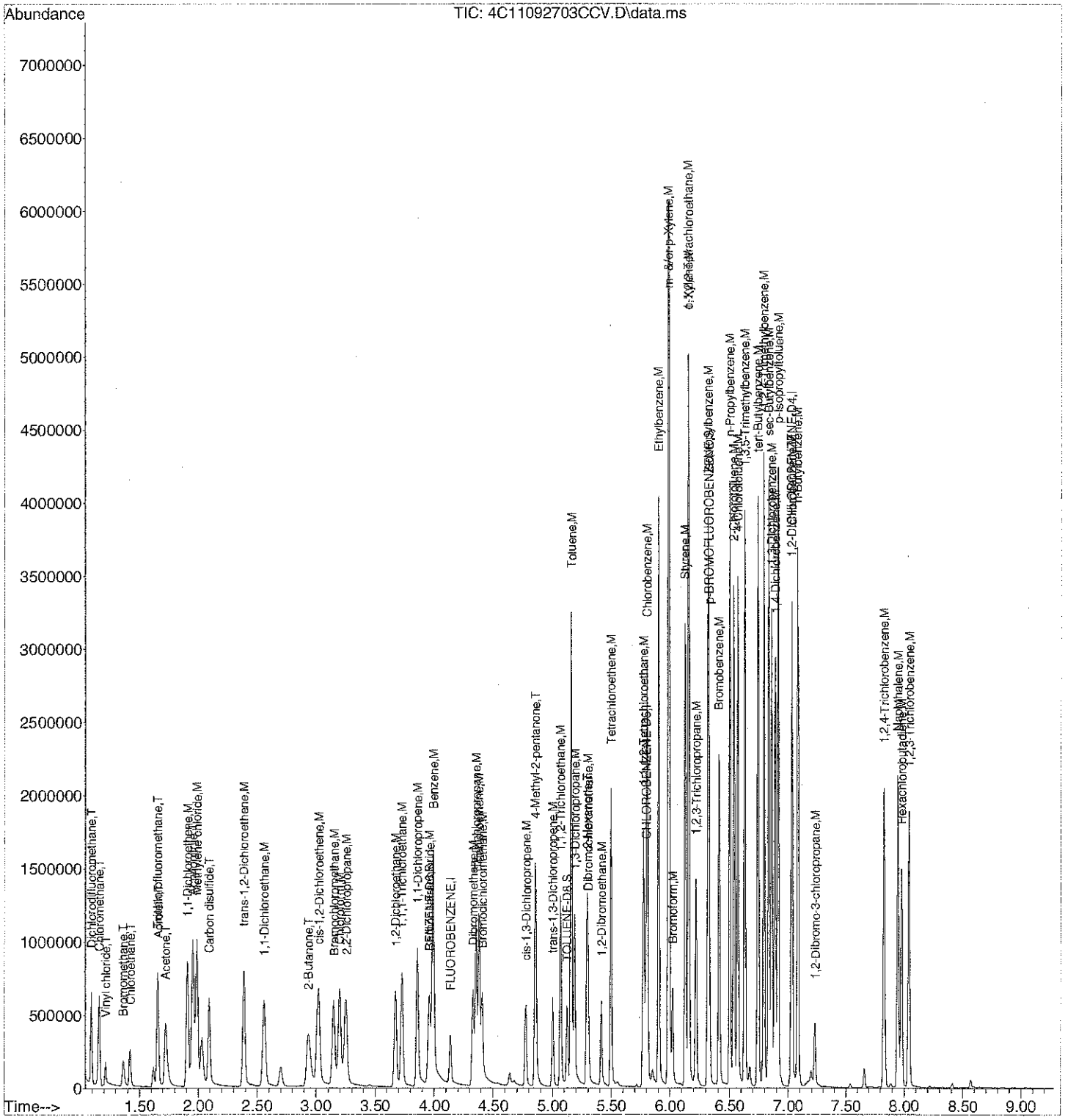
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.320	105	13273414	303.01 ng	100
53) 1,1,2,2-Tetrachloroethane	6.162	83	3331233	273.65 ng	98
54) 1,2,3-Trichloropropane	6.222	75	2915314	266.79 ng	97
55) Bromobenzene	6.414	156	3544355	263.14 ng	95
56) n-Propylbenzene	6.506	91	15846230	297.29 ng	99
57) 2-Chlorotoluene	6.539	91	10039450	280.51 ng	94
58) 4-Chlorotoluene	6.573	91	10305311	273.19 ng	100
59) 1,3,5-Trimethylbenzene	6.634	105	11081798	271.77 ng	95
60) tert-Butylbenzene	6.745	119	9402757	293.62 ng	98
61) 1,2,4-Trimethylbenzene	6.794	105	11670051	278.85 ng	99
62) sec-Butylbenzene	6.836	105	14524108	277.72 ng	99
63) p-Isopropyltoluene	6.916	119	11713124	282.97 ng	99
64) 1,3-Dichlorobenzene	6.861	146	6592380	262.04 ng	99
65) 1,4-Dichlorobenzene	6.890	146	6986642	249.29 ng	99
67) n-Butylbenzene	7.082	91	10512628	255.37 ng	99
68) 1,2-Dichlorobenzene	7.034	146	6718101	245.10 ng	98
69) 1,2-Dibromo-3-chloropr...	7.231	157	654482	221.42 ng	98
70) 1,2,4-Trichlorobenzene	7.833	180	3731988	244.14 ng	99
71) Hexachlorobutadiene	7.979	225	1867596	232.52 ng	98
72) Naphthalene	7.947	128	8982444	221.26 ng	99
73) 1,2,3-Trichlorobenzene	8.043	180	3517126	221.39 ng	98

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092703CCV.D
Acq On : 27 Sep 2011 12:37
Operator : CTANG
Sample : B109064-BS2
Misc : LIMS # 1090912/1092601, 1% Methanol Added
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 16:25:40 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092703CCV.D
Acq On : 27 Sep 2011 12:37
Operator : CTANG
Sample : B109064-BS2
Misc : LIMS # 1090912/1092601, 1% Methanol Added
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 16:25:40 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE	50.000	50.000	0.0	114	0.00
2	T	Dichlorodifluoromethane	250.000	212.521	15.0	97	-0.01
3	T	Chloromethane	250.000	245.723	1.7	116	-0.01
4	T	Vinyl chloride	250.000	79.919	68.0#	31	-0.02 X
5	T	Bromomethane	250.000	111.713	55.3#	61	-0.02 X
6	T	Chloroethane	250.000	180.519	27.8#	82	-0.02 X
7	T	Trichlorofluoromethane	250.000	218.974	12.4	101	-0.02
8	T	Acrolein	1250.000	1018.871	18.5	96	0.00
9	M	1,1-Dichloroethene	250.000	253.077	-1.2	126	-0.02
10	T	Acetone	1250.000	1208.882	3.3	126	0.00
11	T	Carbon disulfide	250.000	228.640	8.5	117	-0.02
12	M	Methylene chloride	250.000	236.853	5.3	119	-0.01
13	T	Acrylonitrile	1250.000	1251.382	-0.1	131	0.00
14	M	trans-1,2-Dichloroethene	250.000	251.187	-0.5	133	-0.01
15	M	1,1-Dichloroethane	250.000	249.802	0.1	125	-0.01
16	T	2-Butanone	1250.000	1258.017	-0.6	138	0.00
17	M	cis-1,2-Dichloroethene	250.000	256.284	-2.5	132	-0.01
18	M	2,2-Dichloropropane	250.000	264.337	-5.7	134	-0.01
19	M	Bromochloromethane	250.000	252.707	-1.1	123	-0.01
20	M	Chloroform	250.000	239.024	4.4	120	-0.01
21	M	1,1,1-Trichloroethane	250.000	239.955	4.0	120	0.00
22	M	1,1-Dichloropropene	250.000	259.329	-3.7	134	0.00
23	M	Carbon tetrachloride	250.000	228.794	8.5	124	0.00
24	S	BENZENE-D6	50.000	43.948	12.1	117	0.00
25	M	1,2-Dichloroethane	250.000	248.343	0.7	125	0.00
26	M	Benzene	250.000	261.237	-4.5	130	0.00
27	M	Trichloroethene	250.000	256.484	-2.6	129	0.00
28	M	1,2-Dichloropropane	250.000	271.100	-8.4	133	0.00
29	M	Dibromomethane	250.000	274.873	-9.9	133	0.00
30	M	Bromodichloromethane	250.000	221.945	11.2	113	0.00
31	T	2-Chloroethyl vinyl ether	250.000	0.000	100.0#	0	-5.16#
32	M	cis-1,3-Dichloropropene	250.000	257.127	-2.9	130	0.00
33	T	4-Methyl-2-pentanone	500.000	496.794	0.6	127	0.00
34	S	TOLUENE-D8	50.000	48.338	3.3	111	0.00
35	M	Toluene	250.000	259.185	-3.7	128	0.00
36	M	trans-1,3-Dichloropropene	250.000	260.704	-4.3	128	0.00
37	M	1,1,2-Trichloroethane	250.000	268.933	-7.6	127	0.00
38	M	1,3-Dichloropropane	250.000	265.031	-6.0	126	0.00
39	M	Tetrachloroethene	250.000	255.187	-2.1	128	0.00
40	T	2-Hexanone	500.000	493.109	1.4	128	0.00
41	M	Dibromochloromethane	250.000	233.603	6.6	105	0.00
42	M	1,2-Dibromoethane	250.000	265.762	-6.3	126	0.00
43	I	CHLOROBENZENE-D5	50.000	50.000	0.0	110	0.00
44	M	Chlorobenzene	250.000	280.398	-12.2	125	0.00
45	M	1,1,1,2-Tetrachloroethane	250.000	264.361	-5.7	114	0.00
46	M	Ethylbenzene	250.000	287.454	-15.0	127	0.00
47	M	m- &/or p-Xylene	500.000	575.532	-15.1	124	0.00
48	M	o-Xylene	250.000	286.339	-14.5	124	0.00
49	M	Styrene	250.000	297.080	-18.8	125	0.00
50	M	Bromoform	250.000	250.678	-0.3	103	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092703CCV.D
Acq On : 27 Sep 2011 12:37
Operator : CTANG
Sample : B109064-BS2
Misc : LIMS # 1090912/1092601, 1% Methanol Added
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 27 16:25:40 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	M	Isopropylbenzene	250.000	303.014	-21.2	132	0.00
52	S	p-BROMOFLUOROBENZENE	50.000	51.793	-3.6	101	0.00
53	M	1,1,2,2-Tetrachloroethane	250.000	273.649	-9.5	121	0.00
54	M	1,2,3-Trichloropropane	250.000	266.795	-6.7	121	0.00
55	M	Bromobenzene	250.000	263.145	-5.3	118	0.00
56	M	n-Propylbenzene	250.000	297.285	-18.9	129	0.00
57	M	2-Chlorotoluene	250.000	280.511	-12.2	126	0.00
58	M	4-Chlorotoluene	250.000	273.194	-9.3	125	0.00
59	M	1,3,5-Trimethylbenzene	250.000	271.767	-8.7	121	0.00
60	M	tert-Butylbenzene	250.000	293.617	-17.4	129	0.00
61	M	1,2,4-Trimethylbenzene	250.000	278.850	-11.5	124	0.00
62	M	sec-Butylbenzene	250.000	277.716	-11.1	128	0.00
63	M	p-Isopropyltoluene	250.000	282.967	-13.2	127	0.00
64	M	1,3-Dichlorobenzene	250.000	262.036	-4.8	121	0.00
65	M	1,4-Dichlorobenzene	250.000	249.292	0.3	120	0.00
66	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	109	0.00
67	M	n-Butylbenzene	250.000	255.372	-2.1	126	0.00
68	M	1,2-Dichlorobenzene	250.000	245.100	2.0	124	0.00
69	M	1,2-Dibromo-3-chloropropane	250.000	221.425	11.4	113	0.00
70	M	1,2,4-Trichlorobenzene	250.000	244.136	2.3	117	0.00
71	M	Hexachlorobutadiene	250.000	232.519	7.0	121	0.00
72	M	Naphthalene	250.000	221.263	11.5	113	0.00
73	M	1,2,3-Trichlorobenzene	250.000	221.388	11.4	113	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092705CCV.D
Acq On : 27 Sep 2011 14:03
Operator : CTANG
Sample : B109064-BS3
Misc : LIMS # 1090912/1092601, No Methanol Added
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 16:27:29 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.140	96	1804269	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.794	82	1007808	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.025	152	872049	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.970	84	2017887	43.47 ng	0.00
34) TOLUENE-D8	5.128	98	1850526	48.70 ng	0.00
52) p-BROMOFLUOROBENZENE	6.332	95	834649	54.63 ng	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.097	85	2723564	206.14 ng	97
3) Chloromethane	1.165	50	3247642	225.41 ng	98
4) Vinyl chloride	1.227	62	1899893	267.21 ng	100
5) Bromomethane	1.377	94	1490804	226.57 ng	98
6) Chloroethane	1.432	64	1826781	250.34 ng	99
7) Trichlorofluoromethane	1.667	101	4507854	245.21 ng	100
8) Acrolein	1.668	56	163600	1181.57 ng	88
9) 1,1-Dichloroethene	1.919	96	2089814	265.87 ng	99
10) Acetone	1.724	43	5076813	1298.80 ng	97
11) Carbon disulfide	2.104	76	5804100	241.05 ng	100
12) Methylene chloride	1.998	84	2694718	252.61 ng	96
13) Acrylonitrile	1.956	53	7192146	1305.66 ng	100
14) trans-1,2-Dichloroethene	2.396	96	2286530	255.60 ng	99
15) 1,1-Dichloroethane	2.565	63	5074683	258.67 ng	100
16) 2-Butanone	2.933	43	6840279	1362.86 ng	100
17) cis-1,2-Dichloroethene	3.026	96	2639695	261.79 ng	99
18) 2,2-Dichloropropane	3.255	77	2801576	259.47 ng	97
19) Bromochloromethane	3.154	128	1292218	261.74 ng	97
20) Chloroform	3.203	83	4640312	256.45 ng	99
21) 1,1,1-Trichloroethane	3.734	97	3527032	248.59 ng	97
22) 1,1-Dichloropropene	3.866	75	3223415	268.48 ng	96
23) Carbon tetrachloride	3.963	117	1606458	224.93 ng	99
25) 1,2-Dichloroethane	3.677	62	3568142	250.74 ng	95
26) Benzene	3.997	78	9955502	266.49 ng	98
27) Trichloroethene	4.386	130	2461195	266.34 ng	98
28) 1,2-Dichloropropane	4.358	63	2692839	278.19 ng	97
29) Dibromomethane	4.331	174	1672766	271.38 ng	99
30) Bromodichloromethane	4.410	83	2169997	233.94 ng	99
32) cis-1,3-Dichloropropene	4.775	75	1694561	254.89 ng	99
33) 4-Methyl-2-pentanone	4.856	43	6879380	549.29 ng	99
35) Toluene	5.161	91	11972005	271.77 ng	99
36) trans-1,3-Dichloropropene	5.005	75	1613675	254.94 ng	98
37) 1,1,2-Trichloroethane	5.071	97	2250596	278.70 ng	99
38) 1,3-Dichloropropane	5.190	76	3543600	271.15 ng	98
39) Tetrachloroethene	5.503	166	3104106	265.22 ng	99
40) 2-Hexanone	5.290	43	4735822	543.18 ng	97
41) Dibromochloromethane	5.303	129	1445777	234.71 ng	99
42) 1,2-Dibromoethane	5.416	107	2037780	266.95 ng	98
44) Chlorobenzene	5.809	112	7907594	292.69 ng	98
45) 1,1,1,2-Tetrachloroethane	5.777	131	2399748	279.13 ng	98
46) Ethylbenzene	5.905	91	14148563	305.08 ng	99
47) m- &/or p-Xylene	5.993	91	22584145	609.32 ng	100
48) o-Xylene	6.162	91	11508741	301.93 ng	99
49) Styrene	6.133	104	8685308	316.97 ng	94
50) Bromoform	6.024	173	1502279	259.89 ng	99

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092705CCV.D
Acq On : 27 Sep 2011 14:03
Operator : CTANG
Sample : B109064-BS3
Misc : LIMS # 1090912/1092601, No Methanol Added
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 16:27:29 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

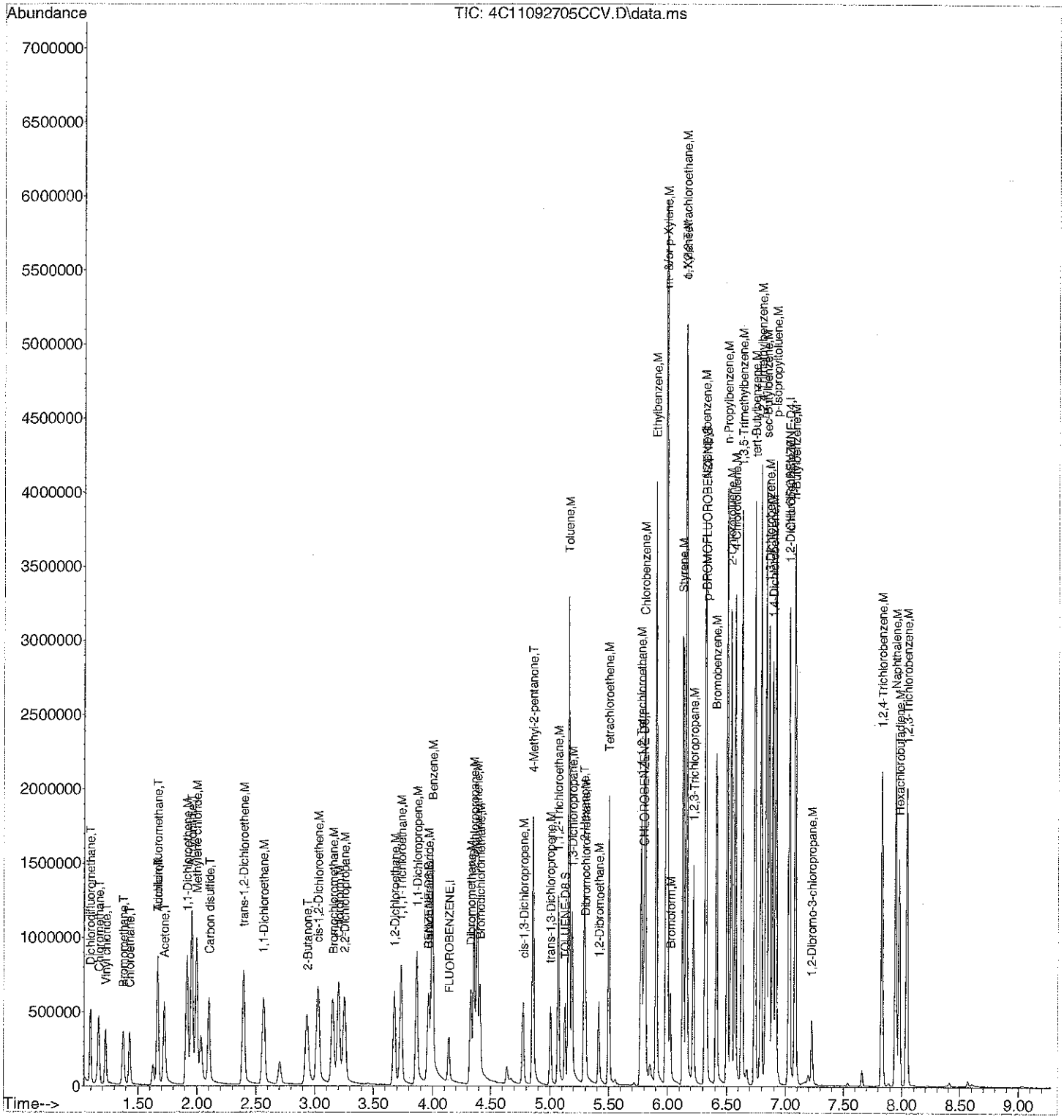
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.321	105	13185023	317.94 ng	100
53) 1,1,2,2-Tetrachloroethane	6.161	83	3378855	293.19 ng	99
54) 1,2,3-Trichloropropane	6.222	75	3016178	291.57 ng	100
55) Bromobenzene	6.414	156	3630238	284.70 ng	98
56) n-Propylbenzene	6.507	91	15566274	308.48 ng	100
57) 2-Chlorotoluene	6.540	91	9859872	291.01 ng	94
58) 4-Chlorotoluene	6.574	91	10074835	282.12 ng	99
59) 1,3,5-Trimethylbenzene	6.634	105	11458129	296.82 ng	99
60) tert-Butylbenzene	6.745	119	9203517	303.58 ng	99
61) 1,2,4-Trimethylbenzene	6.795	105	11483703	289.85 ng	100
62) sec-Butylbenzene	6.837	105	14322796	289.29 ng	99
63) p-Isopropyltoluene	6.916	119	11423464	291.51 ng	99
64) 1,3-Dichlorobenzene	6.861	146	6495969	272.74 ng	99
65) 1,4-Dichlorobenzene	6.890	146	7057342	265.99 ng	98
67) n-Butylbenzene	7.082	91	10496949	259.48 ng	99
68) 1,2-Dichlorobenzene	7.034	146	6708265	249.05 ng	98
69) 1,2-Dibromo-3-chloropr...	7.231	157	649285	223.54 ng	98
70) 1,2,4-Trichlorobenzene	7.834	180	3847461	256.12 ng	99
71) Hexachlorobutadiene	7.980	225	1859632	235.61 ng	98
72) Naphthalene	7.948	128	10059612	252.16 ng	100
73) 1,2,3-Trichlorobenzene	8.043	180	3640326	233.18 ng	98

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092705CCV.D
Acq On : 27 Sep 2011 14:03
Operator : CTANG
Sample : B109064-BS3
Misc : LIMS # 1090912/1092601, No Methanol Added
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 16:27:29 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092705CCV.D
Acq On : 27 Sep 2011 14:03
Operator : CTANG
Sample : B109064-BS3
Misc : LIMS # 1090912/1092601, No Methanol Added
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 16:27:29 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE	50.000	50.000	0.0	108	0.00
2	T	Dichlorodifluoromethane	250.000	206.141	17.5	89	0.00
3	T	Chloromethane	250.000	225.410	9.8	101	0.00
4	T	Vinyl chloride	250.000	267.214	-6.9	97	0.00
5	T	Bromomethane	250.000	226.570	9.4	117	0.00
6	T	Chloroethane	250.000	250.343	-0.1	107	0.00
7	T	Trichlorofluoromethane	250.000	245.213	1.9	107	0.00
8	T	Acrolein	1250.000	1181.572	5.5	106	0.00
9	M	1,1-Dichloroethene	250.000	265.865	-6.3	126	0.00
10	T	Acetone	1250.000	1298.802	-3.9	128	0.00
11	T	Carbon disulfide	250.000	241.054	3.6	116	0.00
12	M	Methylene chloride	250.000	252.609	-1.0	120	0.00
13	T	Acrylonitrile	1250.000	1305.664	-4.5	129	0.00
14	M	trans-1,2-Dichloroethene	250.000	255.596	-2.2	128	0.00
15	M	1,1-Dichloroethane	250.000	258.670	-3.5	122	0.00
16	T	2-Butanone	1250.000	1362.858	-9.0	142	0.00
17	M	cis-1,2-Dichloroethene	250.000	261.785	-4.7	127	0.00
18	M	2,2-Dichloropropane	250.000	259.471	-3.8	124	0.00
19	M	Bromochloromethane	250.000	261.738	-4.7	121	0.00
20	M	Chloroform	250.000	256.455	-2.6	122	0.00
21	M	1,1,1-Trichloroethane	250.000	248.593	0.6	117	0.00
22	M	1,1-Dichloropropene	250.000	268.480	-7.4	132	0.00
23	M	Carbon tetrachloride	250.000	224.931	10.0	116	0.00
24	S	BENZENE-D6	50.000	43.474	13.1	109	0.00
25	M	1,2-Dichloroethane	250.000	250.744	-0.3	119	0.00
26	M	Benzene	250.000	266.491	-6.6	125	0.00
27	M	Trichloroethene	250.000	266.339	-6.5	127	0.00
28	M	1,2-Dichloropropane	250.000	278.193	-11.3	129	0.00
29	M	Dibromomethane	250.000	271.375	-8.6	125	0.00
30	M	Bromodichloromethane	250.000	233.938	6.4	113	0.00
31	T	2-Chloroethyl vinyl ether	250.000	0.000	100.0#	0	-5.16#
32	M	cis-1,3-Dichloropropene	250.000	254.889	-2.0	122	0.00
33	T	4-Methyl-2-pentanone	500.000	549.285	-9.9	133	0.00
34	S	TOLUENE-D8	50.000	48.700	2.6	106	0.00
35	M	Toluene	250.000	271.766	-8.7	127	0.00
36	M	trans-1,3-Dichloropropene	250.000	254.944	-2.0	118	0.00
37	M	1,1,2-Trichloroethane	250.000	278.696	-11.5	125	0.00
38	M	1,3-Dichloropropane	250.000	271.148	-8.5	122	0.00
39	M	Tetrachloroethene	250.000	265.225	-6.1	126	0.00
40	T	2-Hexanone	500.000	543.180	-8.6	134	0.00
41	M	Dibromochloromethane	250.000	234.714	6.1	100	0.00
42	M	1,2-Dibromoethane	250.000	266.948	-6.8	120	0.00
43	I	CHLOROBENZENE-D5	50.000	50.000	0.0	104	0.00
44	M	Chlorobenzene	250.000	292.694	-17.1	124	0.00
45	M	1,1,1,2-Tetrachloroethane	250.000	279.133	-11.7	114	0.00
46	M	Ethylbenzene	250.000	305.075	-22.0	127	0.00
47	M	m- &/or p-Xylene	500.000	609.318	-21.9	125	0.00
48	M	o-Xylene	250.000	301.930	-20.8	124	0.00
49	M	Styrene	250.000	316.965	-26.8#	127	0.00
50	M	Bromoform	250.000	259.887	-4.0	101	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092705CCV.D
Acq On : 27 Sep 2011 14:03
Operator : CTANG
Sample : B109064-BS3
Misc : LIMS # 1090912/1092601, No Methanol Added
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 27 16:27:29 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	M	Isopropylbenzene	250.000	317.944	-27.2#	131	0.00
52	S	p-BROMOFLUOROBENZENE	50.000	54.627	-9.3	101	0.00
53	M	1,1,2,2-Tetrachloroethane	250.000	293.189	-17.3	123	0.00
54	M	1,2,3-Trichloropropane	250.000	291.567	-16.6	125	0.00
55	M	Bromobenzene	250.000	284.696	-13.9	120	0.00
56	M	n-Propylbenzene	250.000	308.476	-23.4	127	0.00
57	M	2-Chlorotoluene	250.000	291.006	-16.4	124	0.00
58	M	4-Chlorotoluene	250.000	282.122	-12.8	122	0.00
59	M	1,3,5-Trimethylbenzene	250.000	296.818	-18.7	125	0.00
60	M	tert-Butylbenzene	250.000	303.577	-21.4	126	0.00
61	M	1,2,4-Trimethylbenzene	250.000	289.847	-15.9	122	0.00
62	M	sec-Butylbenzene	250.000	289.287	-15.7	126	0.00
63	M	p-Isopropyltoluene	250.000	291.508	-16.6	124	0.00
64	M	1,3-Dichlorobenzene	250.000	272.742	-9.1	119	0.00
65	M	1,4-Dichlorobenzene	250.000	265.993	-6.4	122	0.00
66	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	107	0.00
67	M	n-Butylbenzene	250.000	259.484	-3.8	126	0.00
68	M	1,2-Dichlorobenzene	250.000	249.052	0.4	124	0.00
69	M	1,2-Dibromo-3-chloropropane	250.000	223.536	10.6	112	0.00
70	M	1,2,4-Trichlorobenzene	250.000	256.124	-2.4	121	0.00
71	M	Hexachlorobutadiene	250.000	235.606	5.8	121	0.00
72	M	Naphthalene	250.000	252.161	-0.9	127	0.00
73	M	1,2,3-Trichlorobenzene	250.000	233.179	6.7	117	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092714BSD.D
Acq On : 27 Sep 2011 18:23
Operator : CTANG
Sample : B109064-BSD2
Misc : LIMS # 1090912/1092601, 1% Methanol Added
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 27 18:33:24 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.138	96	1706292	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.795	82	941706	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.026	152	784685	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.967	84	1793063	40.85 ng	0.00
34) TOLUENE-D8	5.127	98	1693068	47.11 ng	0.00
52) p-BROMOFLUOROBENZENE	6.332	95	754876	52.87 ng	0.00

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.091	85	2647547	211.89 ng	97
3) Chloromethane	1.158	50	3578940	262.67 ng	99
4) Vinyl chloride	1.212	62	571111	84.94 ng	99
5) Bromomethane	1.362	94	608923	97.86 ng	96
6) Chloroethane	1.418	64	1260188	182.61 ng	100
7) Trichlorofluoromethane	1.655	101	3926052	225.83 ng	99
8) Acrolein	1.663	56	166733	1273.35 ng	96
9) 1,1-Dichloroethene	1.908	96	1858478	250.01 ng	97
10) Acetone	1.724	43	5182357	1401.93 ng	99
11) Carbon disulfide	2.094	76	4709852	206.84 ng	99
12) Methylene chloride	1.990	84	2423471	240.23 ng	99
13) Acrylonitrile	1.954	53	7057421	1354.77 ng	99
14) trans-1,2-Dichloroethene	2.387	96	2102437	248.51 ng	98
15) 1,1-Dichloroethane	2.558	63	4668165	251.61 ng	99
16) 2-Butanone	2.938	43	6948704	1463.96 ng	93
17) cis-1,2-Dichloroethene	3.019	96	2493996	261.54 ng	96
18) 2,2-Dichloropropane	3.249	77	2327145	227.91 ng	99
19) Bromochloromethane	3.148	128	1151254	246.58 ng	96
20) Chloroform	3.199	83	4254271	248.62 ng	99
21) 1,1,1-Trichloroethane	3.730	97	3166862	236.02 ng	98
22) 1,1-Dichloropropene	3.862	75	2947509	259.60 ng	96
23) Carbon tetrachloride	3.959	117	1205169	178.43 ng	99
25) 1,2-Dichloroethane	3.674	62	3465279	257.50 ng	95
26) Benzene	3.994	78	9088311	257.25 ng	99
27) Trichloroethene	4.384	130	2215858	253.56 ng	98
28) 1,2-Dichloropropane	4.356	63	2452734	267.94 ng	100
29) Dibromomethane	4.331	174	1518075	260.42 ng	99
30) Bromodichloromethane	4.409	83	1796892	204.84 ng	100
31) 2-Chloroethyl vinyl ether	5.160	62	384010	250.74 ng #	100
32) cis-1,3-Dichloropropene	4.775	75	1388412	220.83 ng	98
33) 4-Methyl-2-pentanone	4.859	43	6630534	559.82 ng	100
35) Toluene	5.161	91	10751456	258.07 ng	99
36) trans-1,3-Dichloropropene	5.005	75	1295345	216.40 ng	99
37) 1,1,2-Trichloroethane	5.072	97	2060454	269.80 ng	97
38) 1,3-Dichloropropane	5.190	76	3306492	267.53 ng	98
39) Tetrachloroethene	5.502	166	2749989	248.46 ng	99
40) 2-Hexanone	5.293	43	4604303	558.42 ng	98
41) Dibromochloromethane	5.304	129	1110074	190.56 ng	98
42) 1,2-Dibromoethane	5.416	107	1847637	255.94 ng	99
44) Chlorobenzene	5.809	112	7010509	277.70 ng	99
45) 1,1,1,2-Tetrachloroethane	5.778	131	1974681	245.81 ng	96
46) Ethylbenzene	5.905	91	12558500	289.80 ng	100
47) m- &/or p-Xylene	5.993	91	20102283	580.43 ng	99
48) o-Xylene	6.163	91	10463485	293.78 ng	99
49) Styrene	6.134	104	7060512	275.76 ng	99

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092714BSD.D
Acq On : 27 Sep 2011 18:23
Operator : CTANG
Sample : B109064-BSD2
Misc : LIMS # 1090912/1092601, 1% Methanol Added
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 27 18:33:24 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
50) Bromoform	6.025	173	1238217	229.24 ng	96
51) Isopropylbenzene	6.321	105	12687791	327.43 ng	100
53) 1,1,2,2-Tetrachloroethane	6.163	83	3172653	294.62 ng	99
54) 1,2,3-Trichloropropane	6.223	75	2850671	294.91 ng	100
55) Bromobenzene	6.415	156	3214164	269.76 ng	99
56) n-Propylbenzene	6.507	91	13686170	290.26 ng	99
57) 2-Chlorotoluene	6.540	91	8891162	280.84 ng	94
58) 4-Chlorotoluene	6.575	91	9026766	270.52 ng	100
59) 1,3,5-Trimethylbenzene	6.634	105	10111389	280.32 ng	99
60) tert-Butylbenzene	6.746	119	8109833	286.28 ng	99
61) 1,2,4-Trimethylbenzene	6.795	105	10158154	274.39 ng	99
62) sec-Butylbenzene	6.837	105	12393510	267.89 ng	98
63) p-Isopropyltoluene	6.916	119	9766631	266.72 ng	99
64) 1,3-Dichlorobenzene	6.862	146	5732189	257.57 ng	99
65) 1,4-Dichlorobenzene	6.890	146	6061769	244.51 ng	99
67) n-Butylbenzene	7.083	91	8838525	242.81 ng	100
68) 1,2-Dichlorobenzene	7.035	146	5925135	244.47 ng	99
69) 1,2-Dibromo-3-chloropr...	7.232	157	570810	218.40 ng	96
70) 1,2,4-Trichlorobenzene	7.835	180	3043549	225.17 ng	98
71) Hexachlorobutadiene	7.981	225	1482000	208.67 ng	99
72) Naphthalene	7.949	128	8466097	235.84 ng	100
73) 1,2,3-Trichlorobenzene	8.044	180	3055900	217.54 ng	98

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

Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092714BSD.D
Acq On : 27 Sep 2011 18:23
Operator : CTANG
Sample : B109064-BSD2
Misc : LIMS # 1090912/1092601, 1% Methanol Added
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 27 18:33:24 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	M	Isopropylbenzene	250.000	327.430	-31.0#	126	0.00 X
52	S	p-BROMOFLUOROBENZENE	50.000	52.874	-5.7	91	0.00
53	M	1,1,2,2-Tetrachloroethane	250.000	294.621	-17.8	115	0.00
54	M	1,2,3-Trichloropropane	250.000	294.911	-18.0	118	0.00
55	M	Bromobenzene	250.000	269.760	-7.9	107	0.00
56	M	n-Propylbenzene	250.000	290.256	-16.1	112	0.00
57	M	2-Chlorotoluene	250.000	280.835	-12.3	112	0.00
58	M	4-Chlorotoluene	250.000	270.517	-8.2	109	0.00
59	M	1,3,5-Trimethylbenzene	250.000	280.317	-12.1	110	0.00
60	M	tert-Butylbenzene	250.000	286.279	-14.5	111	0.00
61	M	1,2,4-Trimethylbenzene	250.000	274.388	-9.8	108	0.00
62	M	sec-Butylbenzene	250.000	267.891	-7.2	109	0.00
63	M	p-Isopropyltoluene	250.000	266.723	-6.7	106	0.00
64	M	1,3-Dichlorobenzene	250.000	257.568	-3.0	105	0.00
65	M	1,4-Dichlorobenzene	250.000	244.507	2.2	104	0.00
66	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	97	0.00
67	M	n-Butylbenzene	250.000	242.813	2.9	106	0.00
68	M	1,2-Dichlorobenzene	250.000	244.469	2.2	109	0.00
69	M	1,2-Dibromo-3-chloropropane	250.000	218.398	12.6	98	0.00
70	M	1,2,4-Trichlorobenzene	250.000	225.165	9.9	96	0.00
71	M	Hexachlorobutadiene	250.000	208.667	16.5	96	0.00
72	M	Naphthalene	250.000	235.845	5.7	107	0.00
73	M	1,2,3-Trichlorobenzene	250.000	217.537	13.0	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092714BSD.D
Acq On : 27 Sep 2011 18:23
Operator : CTANG
Sample : B109064-BSD2
Misc : LIMS # 1090912/1092601, 1% Methanol Added
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 27 18:33:24 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE	50.000	50.000	0.0	102	0.00
2	T	Dichlorodifluoromethane	250.000	211.894	15.2	87	-0.01
3	T	Chloromethane	250.000	262.669	-5.1	111	-0.01
4	T	Vinyl chloride	250.000	84.937	66.0#	29	-0.02 X
5	T	Bromomethane	250.000	97.857	60.9#	48	-0.02 X
6	T	Chloroethane	250.000	182.613	27.0#	74	-0.02 X
7	T	Trichlorofluoromethane	250.000	225.828	9.7	93	-0.02
8	T	Acrolein	1250.000	1273.346	-1.9	108	-0.01
9	M	1,1-Dichloroethene	250.000	250.011	-0.0	112	-0.02
10	T	Acetone	1250.000	1401.932	-12.2	131	0.00
11	T	Carbon disulfide	250.000	206.840	17.3	94	-0.02
12	M	Methylene chloride	250.000	240.227	3.9	108	-0.02
13	T	Acrylonitrile	1250.000	1354.775	-8.4	127	-0.01
14	M	trans-1,2-Dichloroethene	250.000	248.513	0.6	118	-0.02
15	M	1,1-Dichloroethane	250.000	251.612	-0.6	113	-0.01
16	T	2-Butanone	1250.000	1463.958	-17.1	144	0.00
17	M	cis-1,2-Dichloroethene	250.000	261.538	-4.6	120	-0.01
18	M	2,2-Dichloropropane	250.000	227.907	8.8	103	-0.01
19	M	Bromochloromethane	250.000	246.576	1.4	108	-0.01
20	M	Chloroform	250.000	248.620	0.6	112	-0.01
21	M	1,1,1-Trichloroethane	250.000	236.025	5.6	105	0.00
22	M	1,1-Dichloropropene	250.000	259.596	-3.8	120	0.00
23	M	Carbon tetrachloride	250.000	178.434	28.6#	87	0.00 X
24	S	BENZENE-D6	50.000	40.848	18.3	97	0.00
25	M	1,2-Dichloroethane	250.000	257.499	-3.0	116	0.00
26	M	Benzene	250.000	257.247	-2.9	115	0.00
27	M	Trichloroethene	250.000	253.559	-1.4	114	0.00
28	M	1,2-Dichloropropane	250.000	267.938	-7.2	117	0.00
29	M	Dibromomethane	250.000	260.421	-4.2	113	0.00
30	M	Bromodichloromethane	250.000	204.839	18.1	93	0.00
31	T	2-Chloroethyl vinyl ether	250.000	250.741	-0.3	0	0.00
32	M	cis-1,3-Dichloropropene	250.000	220.831	11.7	100	0.00
33	T	4-Methyl-2-pentanone	500.000	559.816	-12.0	128	0.00
34	S	TOLUENE-D8	50.000	47.115	5.8	97	0.00
35	M	Toluene	250.000	258.074	-3.2	114	0.00
36	M	trans-1,3-Dichloropropene	250.000	216.402	13.4	95	0.00
37	M	1,1,2-Trichloroethane	250.000	269.801	-7.9	114	0.00
38	M	1,3-Dichloropropane	250.000	267.533	-7.0	114	0.00
39	M	Tetrachloroethene	250.000	248.460	0.6	111	0.00
40	T	2-Hexanone	500.000	558.419	-11.7	130	0.00
41	M	Dibromochloromethane	250.000	190.562	23.8	77	0.00
42	M	1,2-Dibromoethane	250.000	255.938	-2.4	109	0.00
43	I	CHLOROBENZENE-D5	50.000	50.000	0.0	97	0.00
44	M	Chlorobenzene	250.000	277.704	-11.1	110	0.00
45	M	1,1,1,2-Tetrachloroethane	250.000	245.814	1.7	94	0.00
46	M	Ethylbenzene	250.000	289.798	-15.9	113	0.00
47	M	m- &/or p-Xylene	500.000	580.428	-16.1	111	0.00
48	M	o-Xylene	250.000	293.777	-17.5	113	0.00
49	M	Styrene	250.000	275.756	-10.3	103	0.00
50	M	Bromoform	250.000	229.242	8.3	83	0.00

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092715BSD.D
Acq On : 27 Sep 2011 18:45
Operator : CTANG
Sample : B109064-BSD3
Misc : LIMS # 1090912/1092601, No Methanol Added
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 08:32:38 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.141	96	1693236	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.795	82	932846	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.026	152	763019	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.971	84	1841034	42.26 ng	0.00
34) TOLUENE-D8	5.128	98	1738089	48.74 ng	0.00
52) p-BROMOFLUOROBENZENE	6.332	95	754188	53.33 ng	0.00
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.096	85	2704785	218.14 ng	98
3) Chloromethane	1.164	50	3219631	238.12 ng	98
4) Vinyl chloride	1.225	62	1859314	278.65 ng	100
5) Bromomethane	1.376	94	1465472	237.32 ng	96
6) Chloroethane	1.430	64	1819214	265.65 ng	97
7) Trichlorofluoromethane	1.666	101	4434139	257.02 ng	98
8) Acrolein	1.668	56	165458	1273.35 ng	99
9) 1,1-Dichloroethene	1.918	96	2004109	271.68 ng	99
10) Acetone	1.723	43	5255101	1432.57 ng	100
11) Carbon disulfide	2.103	76	5257770	232.68 ng	99
12) Methylene chloride	1.997	84	2583454	258.06 ng	96
13) Acrylonitrile	1.955	53	6941427	1342.78 ng	99
14) trans-1,2-Dichloroethene	2.395	96	2160055	257.29 ng	99
15) 1,1-Dichloroethane	2.564	63	4900787	266.19 ng	99
16) 2-Butanone	2.935	43	6797242	1443.09 ng	94
17) cis-1,2-Dichloroethene	3.026	96	2610943	275.91 ng	96
18) 2,2-Dichloropropane	3.256	77	2466334	243.40 ng	98
19) Bromochloromethane	3.154	128	1169602	252.44 ng	100
20) Chloroform	3.204	83	4449473	262.03 ng	100
21) 1,1,1-Trichloroethane	3.734	97	3378091	253.71 ng	99
22) 1,1-Dichloropropene	3.867	75	3091500	274.38 ng	97
23) Carbon tetrachloride	3.963	117	1341990	200.22 ng	99
25) 1,2-Dichloroethane	3.678	62	3506479	262.57 ng	96
26) Benzene	3.997	78	9600806	273.85 ng	100
27) Trichloroethene	4.386	130	2300705	265.30 ng	99
28) 1,2-Dichloropropane	4.359	63	2443673	269.01 ng	96
29) Dibromomethane	4.332	174	1548351	267.66 ng	99
30) Bromodichloromethane	4.410	83	1991535	228.78 ng	99
32) cis-1,3-Dichloropropene	4.776	75	1439488	230.72 ng	100
33) 4-Methyl-2-pentanone	4.858	43	6824983	580.68 ng	99
35) Toluene	5.162	91	11186102	270.58 ng	100
36) trans-1,3-Dichloropropene	5.005	75	1321974	222.55 ng	98
37) 1,1,2-Trichloroethane	5.072	97	2096930	276.69 ng	99
38) 1,3-Dichloropropane	5.190	76	3295248	268.68 ng	96
39) Tetrachloroethene	5.503	166	2908597	264.82 ng	100
40) 2-Hexanone	5.291	43	4740287	579.34 ng	99
41) Dibromochloromethane	5.304	129	1220774	211.18 ng	98
42) 1,2-Dibromoethane	5.417	107	1860928	259.77 ng	99
44) Chlorobenzene	5.810	112	7334312	293.29 ng	99
45) 1,1,1,2-Tetrachloroethane	5.777	131	2128201	267.44 ng	98
46) Ethylbenzene	5.905	91	13223598	308.04 ng	100
47) m- &/or p-Xylene	5.993	91	21457355	625.44 ng	100
48) o-Xylene	6.163	91	10838524	307.20 ng	100
49) Styrene	6.134	104	7190429	283.50 ng	98
50) Bromoform	6.025	173	1314943	245.76 ng	97

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092715BSD.D
Acq On : 27 Sep 2011 18:45
Operator : CTANG
Sample : B109064-BSD3
Misc : LIMS # 1090912/1092601, No Methanol Added
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 08:32:38 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

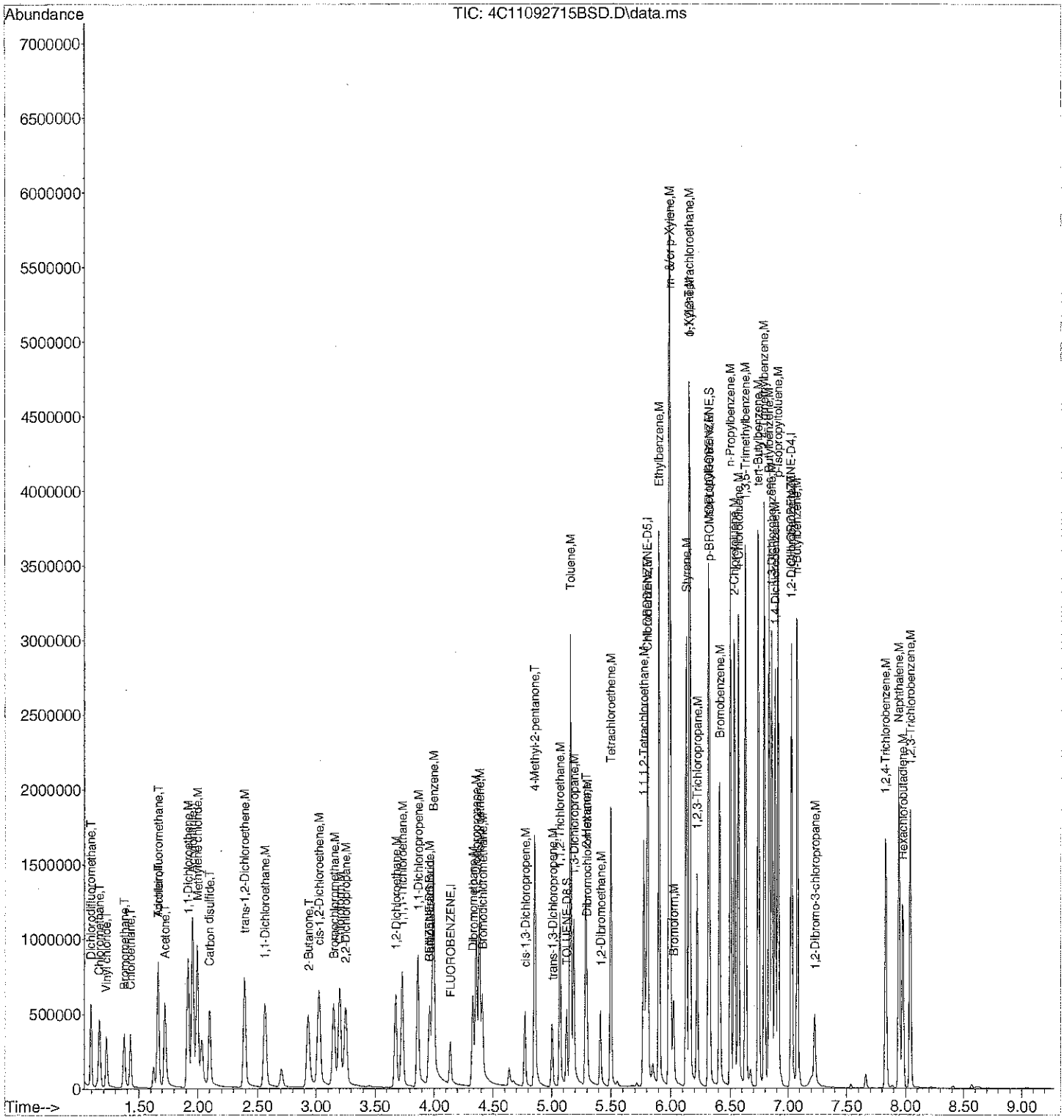
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
51) Isopropylbenzene	6.322	105	12872244	335.35 ng	98
53) 1,1,2,2-Tetrachloroethane	6.162	83	3253294	304.98 ng	99
54) 1,2,3-Trichloropropane	6.223	75	2891302	301.96 ng	95
55) Bromobenzene	6.415	156	3318435	281.16 ng	96
56) n-Propylbenzene	6.507	91	14396540	308.22 ng	99
57) 2-Chlorotoluene	6.541	91	9229253	294.28 ng	94
58) 4-Chlorotoluene	6.574	91	9401196	284.41 ng	99
59) 1,3,5-Trimethylbenzene	6.634	105	10629788	297.49 ng	100
60) tert-Butylbenzene	6.746	119	8530028	303.97 ng	98
61) 1,2,4-Trimethylbenzene	6.795	105	10664456	290.80 ng	99
62) sec-Butylbenzene	6.837	105	12927791	282.09 ng	98
63) p-Isopropyltoluene	6.917	119	10367937	285.83 ng	100
64) 1,3-Dichlorobenzene	6.862	146	5939563	269.42 ng	99
65) 1,4-Dichlorobenzene	6.890	146	6470424	263.47 ng	99
67) n-Butylbenzene	7.083	91	9307194	262.95 ng	100
68) 1,2-Dichlorobenzene	7.035	146	6192509	262.76 ng	99
69) 1,2-Dibromo-3-chloropr...	7.232	157	589197	231.83 ng	100
70) 1,2,4-Trichlorobenzene	7.834	180	3202557	243.66 ng	98
71) Hexachlorobutadiene	7.980	225	1603705	232.21 ng	98
72) Naphthalene	7.949	128	9265952	265.46 ng	100
73) 1,2,3-Trichlorobenzene	8.044	180	3298588	241.48 ng	98

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092715BSD.D
Acq On : 27 Sep 2011 18:45
Operator : CTANG
Sample : B109064-BSD3
Misc : LIMS # 1090912/1092601, No Methanol Added
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 08:32:38 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092715BSD.D
Acq On : 27 Sep 2011 18:45
Operator : CTANG
Sample : B109064-BSD3
Misc : LIMS # 1090912/1092601, No Methanol Added
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 08:32:38 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	FLUOROBENZENE	50.000	50.000	0.0	102	0.00
2	T	Dichlorodifluoromethane	250.000	218.144	12.7	89	0.00
3	T	Chloromethane	250.000	238.120	4.8	100	0.00
4	T	Vinyl chloride	250.000	278.655	-11.5	95	0.00
5	T	Bromomethane	250.000	237.325	5.1	115	0.00
6	T	Chloroethane	250.000	265.654	-6.3	107	0.00
7	T	Trichlorofluoromethane	250.000	257.020	-2.8	105	0.00
8	T	Acrolein	1250.000	1273.347	-1.9	107	0.00
9	M	1,1-Dichloroethene	250.000	271.681	-8.7	120	0.00
10	T	Acetone	1250.000	1432.572	-14.6	133	0.00
11	T	Carbon disulfide	250.000	232.683	6.9	105	0.00
12	M	Methylene chloride	250.000	258.060	-3.2	115	0.00
13	T	Acrylonitrile	1250.000	1342.782	-7.4	125	0.00
14	M	trans-1,2-Dichloroethene	250.000	257.292	-2.9	121	0.00
15	M	1,1-Dichloroethane	250.000	266.187	-6.5	118	0.00
16	T	2-Butanone	1250.000	1443.089	-15.4	141	0.00
17	M	cis-1,2-Dichloroethene	250.000	275.913	-10.4	126	0.00
18	M	2,2-Dichloropropane	250.000	243.401	2.6	109	0.00
19	M	Bromochloromethane	250.000	252.437	-1.0	109	0.00
20	M	Chloroform	250.000	262.033	-4.8	117	0.00
21	M	1,1,1-Trichloroethane	250.000	253.709	-1.5	112	0.00
22	M	1,1-Dichloropropene	250.000	274.377	-9.8	126	0.00
23	M	Carbon tetrachloride	250.000	200.223	19.9	97	0.00
24	S	BENZENE-D6	50.000	42.265	15.5	100	0.00
25	M	1,2-Dichloroethane	250.000	262.569	-5.0	117	0.00
26	M	Benzene	250.000	273.849	-9.5	121	0.00
27	M	Trichloroethene	250.000	265.298	-6.1	118	0.00
28	M	1,2-Dichloropropane	250.000	269.006	-7.6	117	0.00
29	M	Dibromomethane	250.000	267.663	-7.1	115	0.00
30	M	Bromodichloromethane	250.000	228.778	8.5	103	0.00
31	T	2-Chloroethyl vinyl ether	250.000	0.000	100.0#	0	-5.16#
32	M	cis-1,3-Dichloropropene	250.000	230.721	7.7	104	0.00
33	T	4-Methyl-2-pentanone	500.000	580.676	-16.1	132	0.00
34	S	TOLUENE-D8	50.000	48.740	2.5	100	0.00
35	M	Toluene	250.000	270.577	-8.2	119	0.00
36	M	trans-1,3-Dichloropropene	250.000	222.554	11.0	97	0.00
37	M	1,1,2-Trichloroethane	250.000	276.695	-10.7	116	0.00
38	M	1,3-Dichloropropane	250.000	268.679	-7.5	114	0.00
39	M	Tetrachloroethene	250.000	264.816	-5.9	118	0.00
40	T	2-Hexanone	500.000	579.344	-15.9	134	0.00
41	M	Dibromochloromethane	250.000	211.182	15.5	85	0.00
42	M	1,2-Dibromoethane	250.000	259.766	-3.9	110	0.00
43	I	CHLOROBENZENE-D5	50.000	50.000	0.0	97	0.00
44	M	Chlorobenzene	250.000	293.289	-17.3	115	0.00
45	M	1,1,1,2-Tetrachloroethane	250.000	267.440	-7.0	101	0.00
46	M	Ethylbenzene	250.000	308.043	-23.2	119	0.00
47	M	m- &/or p-Xylene	500.000	625.438	-25.1#	118	0.00 X
48	M	o-Xylene	250.000	307.197	-22.9	117	0.00
49	M	Styrene	250.000	283.498	-13.4	105	0.00
50	M	Bromoform	250.000	245.759	1.7	88	0.00

Evaluate Continuing Calibration Report

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092715BSD.D
Acq On : 27 Sep 2011 18:45
Operator : CTANG
Sample : B109064-BSD3
Misc : LIMS # 1090912/1092601, No Methanol Added
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 28 08:32:38 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
51	M	Isopropylbenzene	250.000	335.345	-34.1#	128	0.00
52	S	p-BROMOFLUOROBENZENE	50.000	53.327	-6.7	91	0.00
53	M	1,1,2,2-Tetrachloroethane	250.000	304.979	-22.0	118	0.00
54	M	1,2,3-Trichloropropane	250.000	301.955	-20.8	120	0.00
55	M	Bromobenzene	250.000	281.156	-12.5	110	0.00
56	M	n-Propylbenzene	250.000	308.222	-23.3	117	0.00
57	M	2-Chlorotoluene	250.000	294.283	-17.7	116	0.00
58	M	4-Chlorotoluene	250.000	284.413	-13.8	114	0.00
59	M	1,3,5-Trimethylbenzene	250.000	297.487	-19.0	116	0.00
60	M	tert-Butylbenzene	250.000	303.972	-21.6	117	0.00
61	M	1,2,4-Trimethylbenzene	250.000	290.800	-16.3	114	0.00
62	M	sec-Butylbenzene	250.000	282.093	-12.8	114	0.00
63	M	p-Isopropyltoluene	250.000	285.833	-14.3	113	0.00
64	M	1,3-Dichlorobenzene	250.000	269.420	-7.8	109	0.00
65	M	1,4-Dichlorobenzene	250.000	263.469	-5.4	111	0.00
66	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	94	0.00
67	M	n-Butylbenzene	250.000	262.949	-5.2	112	0.00
68	M	1,2-Dichlorobenzene	250.000	262.756	-5.1	114	0.00
69	M	1,2-Dibromo-3-chloropropane	250.000	231.835	7.3	101	0.00
70	M	1,2,4-Trichlorobenzene	250.000	243.657	2.5	101	0.00
71	M	Hexachlorobutadiene	250.000	232.215	7.1	104	0.00
72	M	Naphthalene	250.000	265.456	-6.2	117	0.00
73	M	1,2,3-Trichlorobenzene	250.000	241.481	3.4	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092610BLK.D
Acq On : 26 Sep 2011 15:50
Operator : CTANG
Sample : B109064-BLK2
Misc : LIMS # 1080114, TCLP Filtration Blank
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 26 16:03:57 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

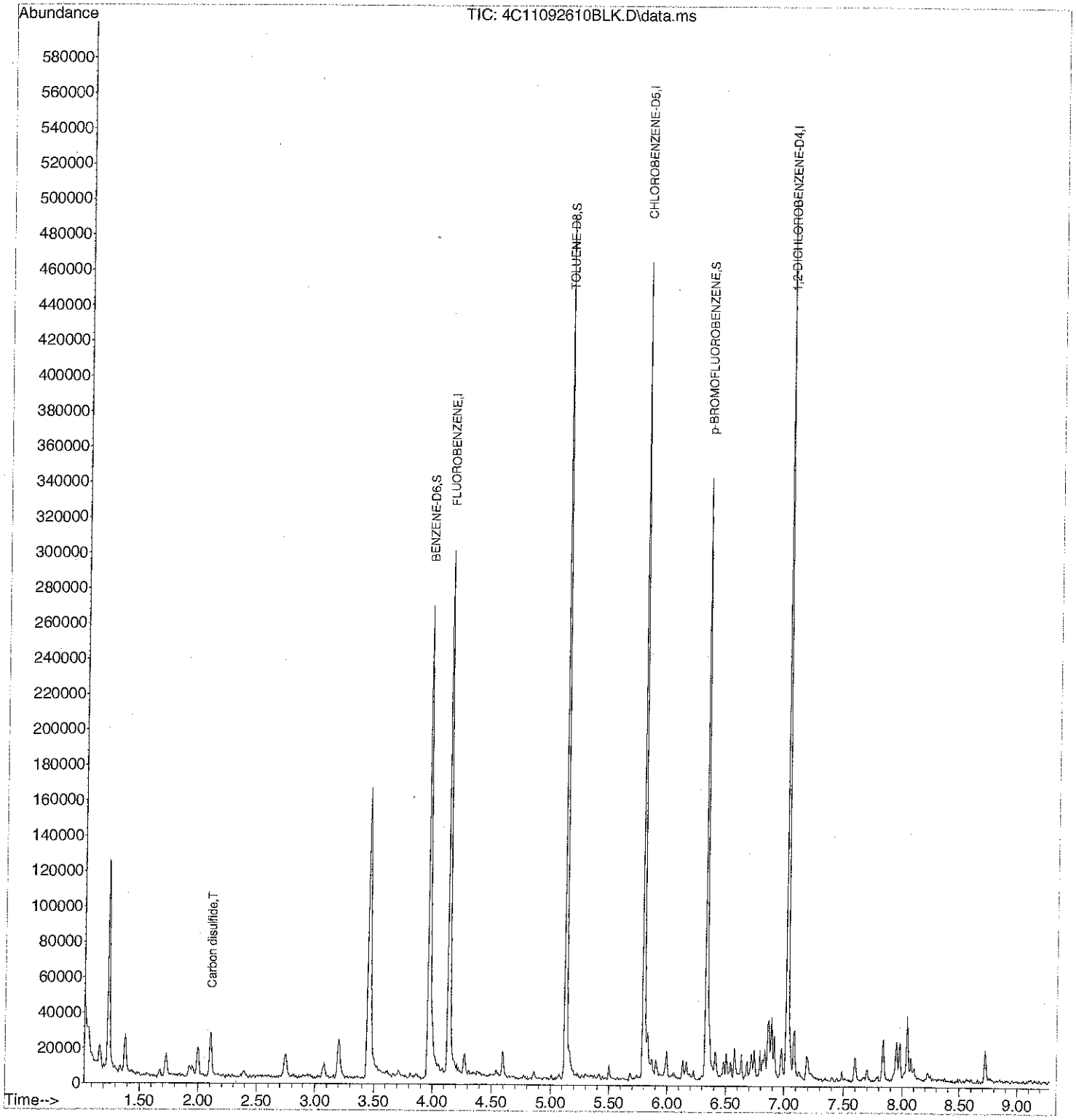
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.142	96	1605606	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.796	82	747539	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.026	152	664567	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.971	84	1595278	38.62 ng	0.00
34) TOLUENE-D8	5.129	98	1612445	47.68 ng	0.00
52) p-BROMOFLUOROBENZENE	6.333	95	664443	58.63 ng	0.00
Target Compounds					Qvalue
11) Carbon disulfide	2.106	76	247840	11.57 ng	100

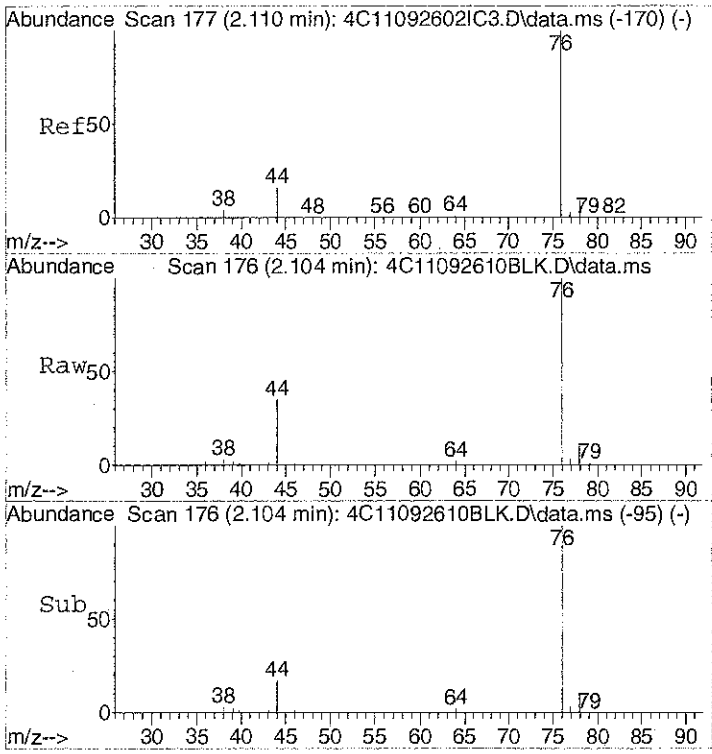
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092610BLK.D
Acq On : 26 Sep 2011 15:50
Operator : CTANG
Sample : B109064-BLK2
Misc : LIMS # 1080114, TCLP Filtration Blank
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 26 16:03:57 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

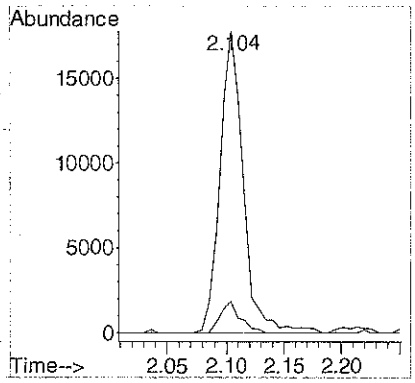




#11
Carbon disulfide
Concen: 11.57 ng
RT: 2.106 min Scan# 176
Delta R.T. -0.006 min
Lab File: 4C11092610BLK.D
Acq: 26 Sep 2011 15:50

Tgt Ion: 76 Resp: 247840

Ion	Ratio	Lower	Upper
76	100		
78	8.9	5.9	12.3



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092611.D
Acq On : 26 Sep 2011 16:11
Operator : CTANG
Sample : 1109008-01
Misc : 1109008-01 Filtrate Vial 1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 26 17:09:34 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.142	96	1603652	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.796	82	753844	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.027	152	584061	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.972	84	1515389	36.73 ng	0.00
34) TOLUENE-D8	5.129	98	1580212	46.79 ng	0.00
52) p-BROMOFLUOROBENZENE	6.333	95	637533	55.78 ng	0.00

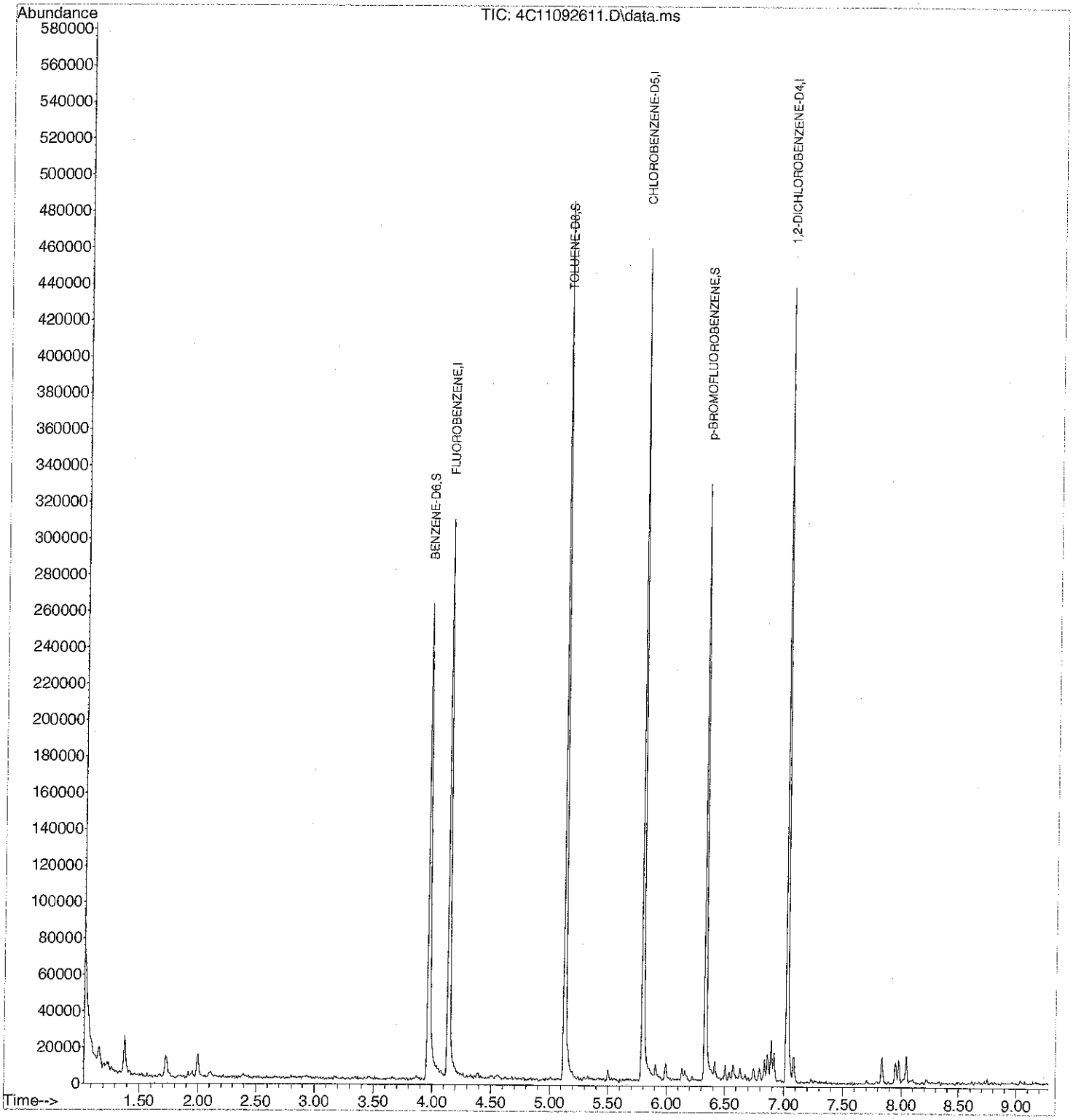
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092611.D
Acq On : 26 Sep 2011 16:11
Operator : CTANG
Sample : 1109008-01
Misc : 1109008-01 Filtrate Vial 1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 26 17:09:34 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092612.D
Acq On : 26 Sep 2011 16:34
Operator : CTANG
Sample : 1109008-02
Misc : 1109008-02 Filtrate Vial 1, 1:5 Dilution
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 26 17:11:27 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.142	96	1569078	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.796	82	749639	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.027	152	507705	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.971	84	1598099	39.59 ng	0.00
34) TOLUENE-D8	5.129	98	1555519	47.07 ng	0.00
52) p-BROMOFLUOROBENZENE	6.333	95	611374	53.79 ng	0.00

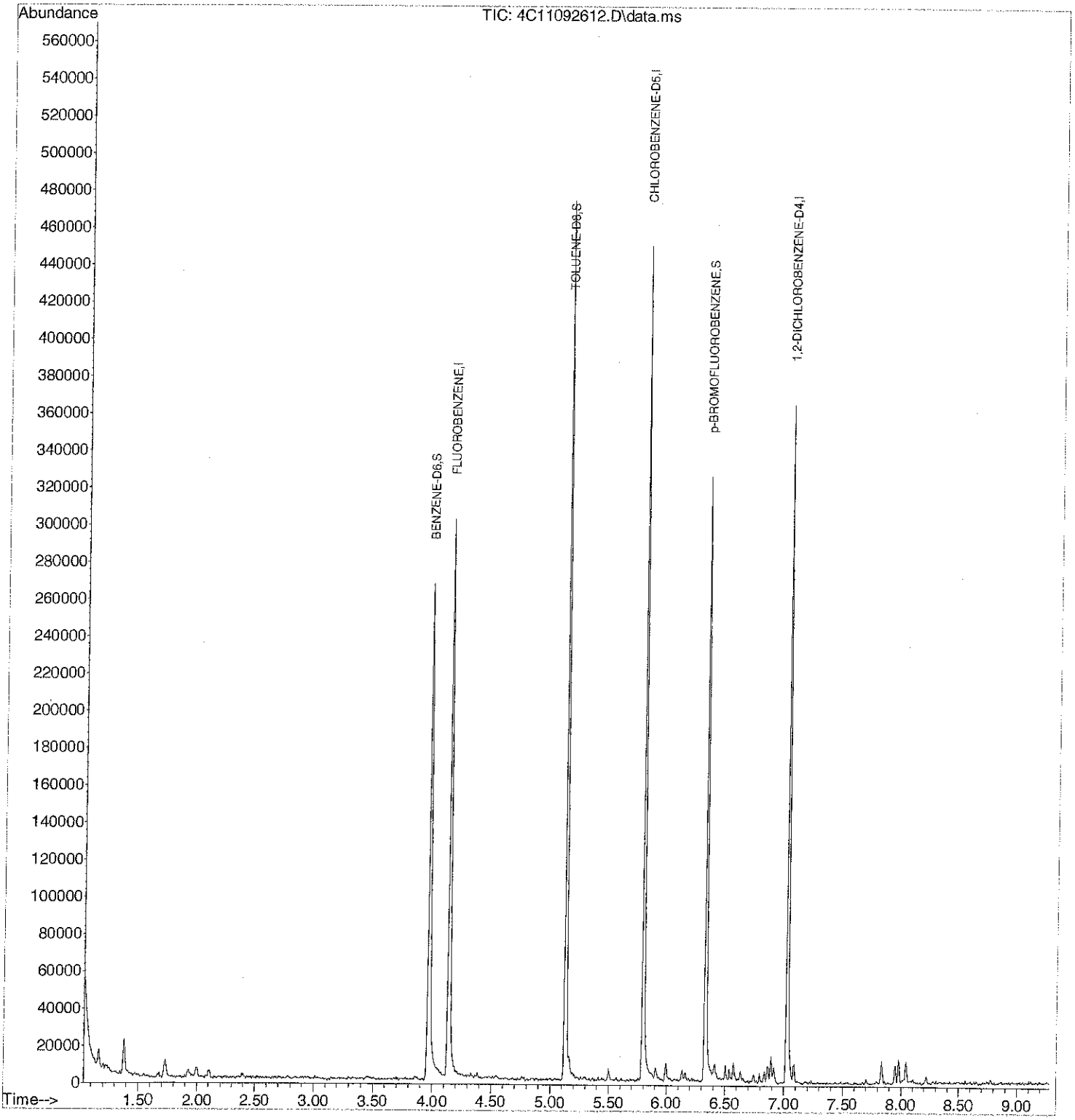
Target Compounds	Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092612.D
Acq On : 26 Sep 2011 16:34
Operator : CTANG
Sample : 1109008-02
Misc : 1109008-02 Filtrate Vial 1, 1:5 Dilution
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 26 17:11:27 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092613.D
Acq On : 26 Sep 2011 16:57
Operator : CTANG
Sample : 1109008-03
Misc : 1109008-03 Filtrate Vial 1, 1:5 Dilution
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 26 17:13:11 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.142	96	1652653	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.795	82	743312	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.027	152	694761	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.971	84	1550128	36.46 ng	0.00
34) TOLUENE-D8	5.129	98	1558955	44.79 ng	0.00
52) p-BROMOFLUOROBENZENE	6.333	95	645923	57.32 ng	0.00

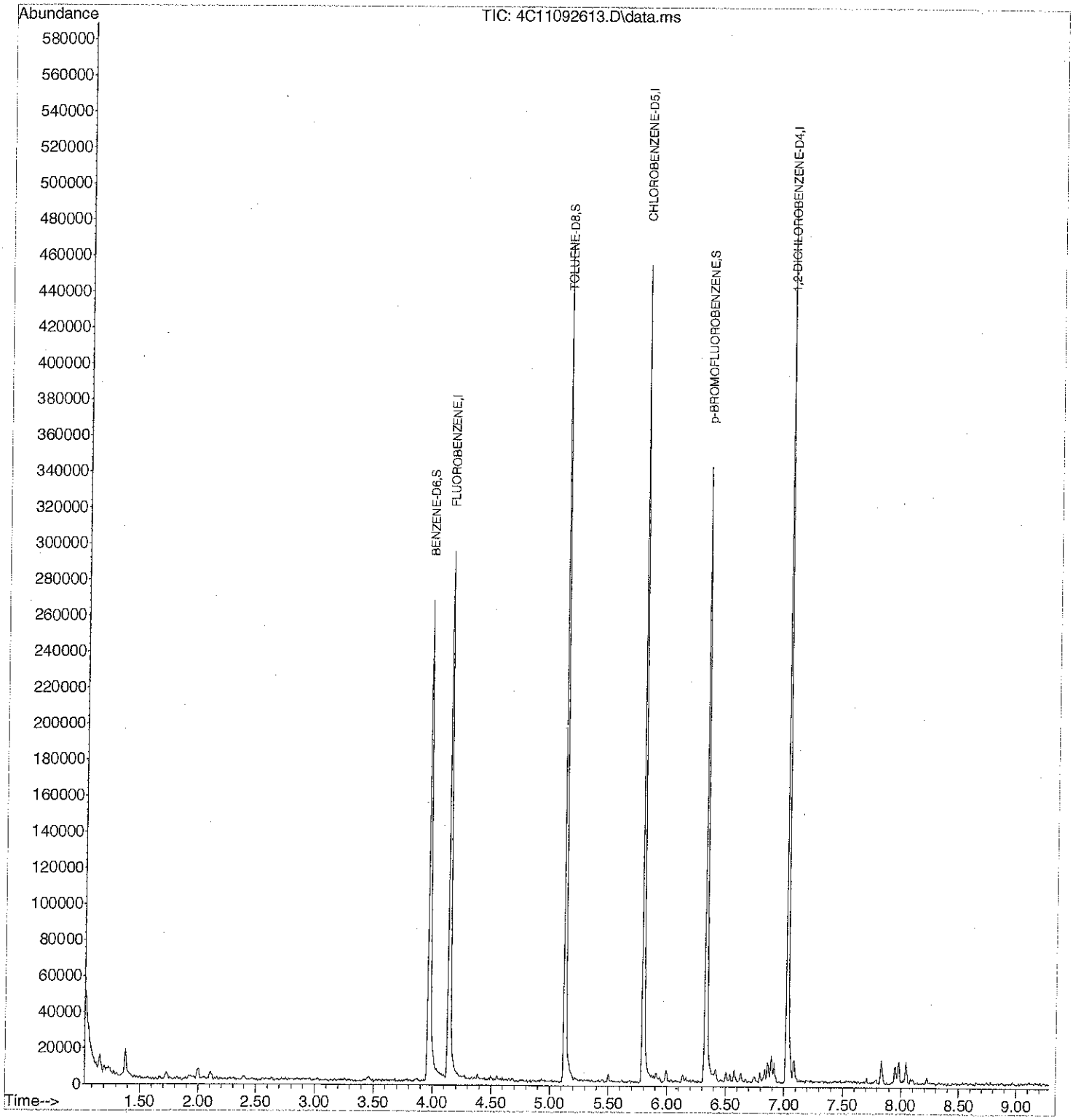
Target Compounds	Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092613.D
Acq On : 26 Sep 2011 16:57
Operator : CTANG
Sample : 1109008-03
Misc : 1109008-03 Filtrate Vial 1, 1:5 Dilution
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 26 17:13:11 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092614.D
Acq On : 26 Sep 2011 17:20
Operator : CTANG
Sample : 1109008-04
Misc : 1109008-04 Filtrate Vial 1, 1:10 Dilution
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 27 08:44:14 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

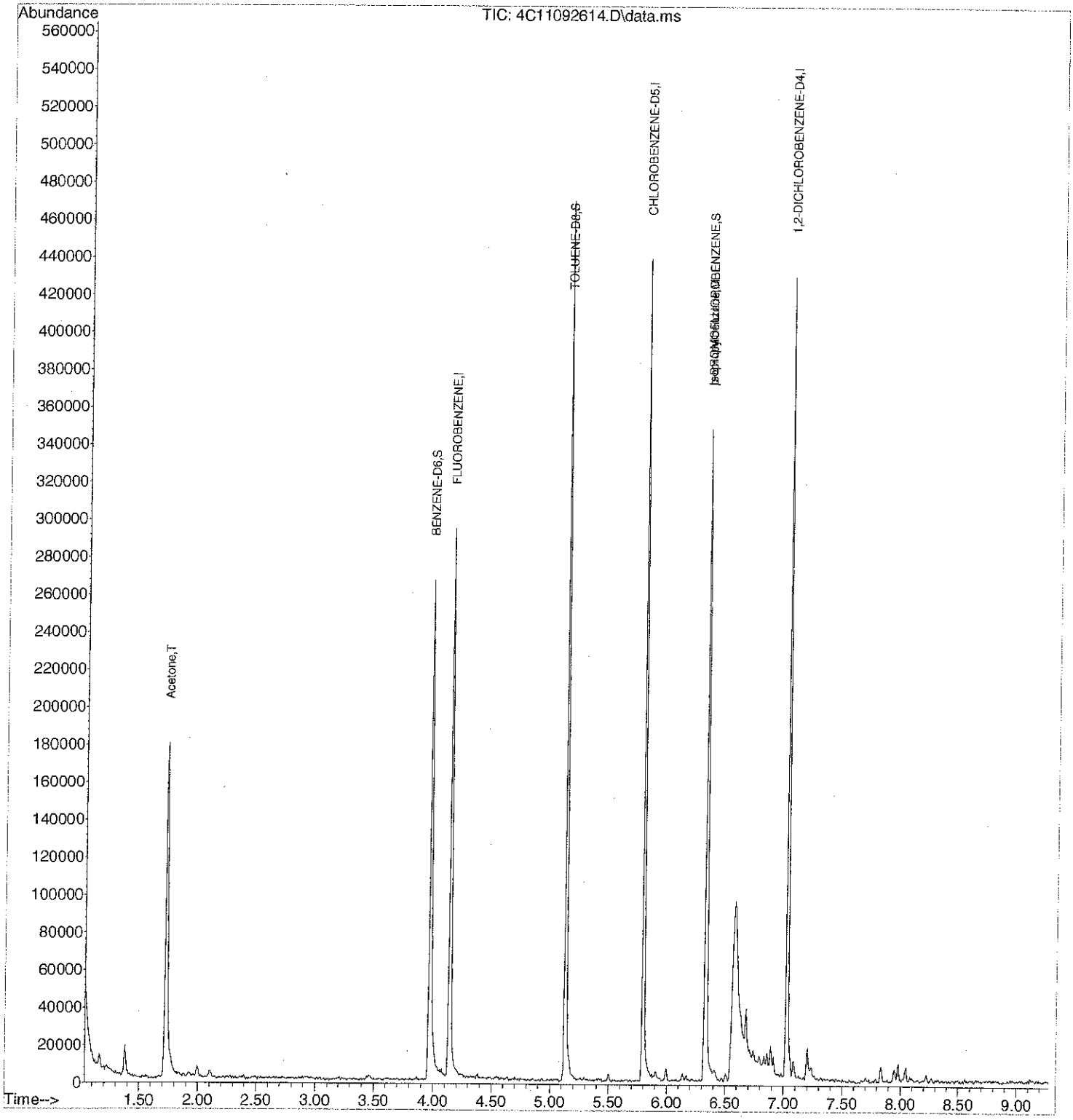
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.141	96	1504371	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.796	82	728259	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.027	152	586572	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.972	84	1503798	38.86 ng	0.00
34) TOLUENE-D8	5.129	98	1518303	47.92 ng	0.00
52) p-BROMOFLUOROBENZENE	6.333	95	652933	59.14 ng	0.00
Target Compounds					Qvalue
10) Acetone	1.727	43	1751791	537.50 ng	99
51) Isopropylbenzene	6.322	105	360255	12.02 ng	96

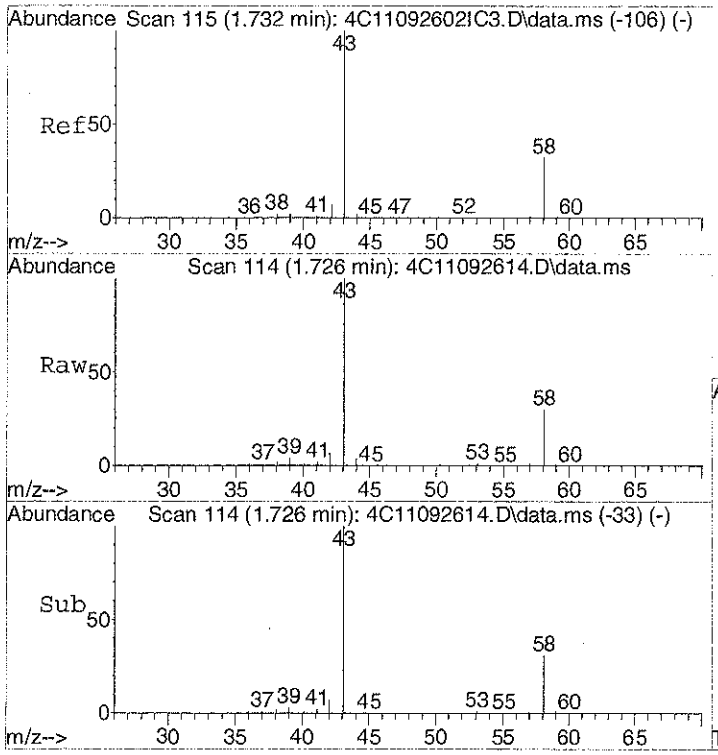
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092614.D
Acq On : 26 Sep 2011 17:20
Operator : CTANG
Sample : 1109008-04
Misc : 1109008-04 Filtrate Vial 1, 1:10 Dilution
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 27 08:44:14 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

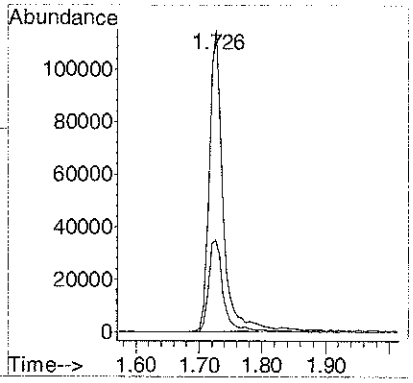


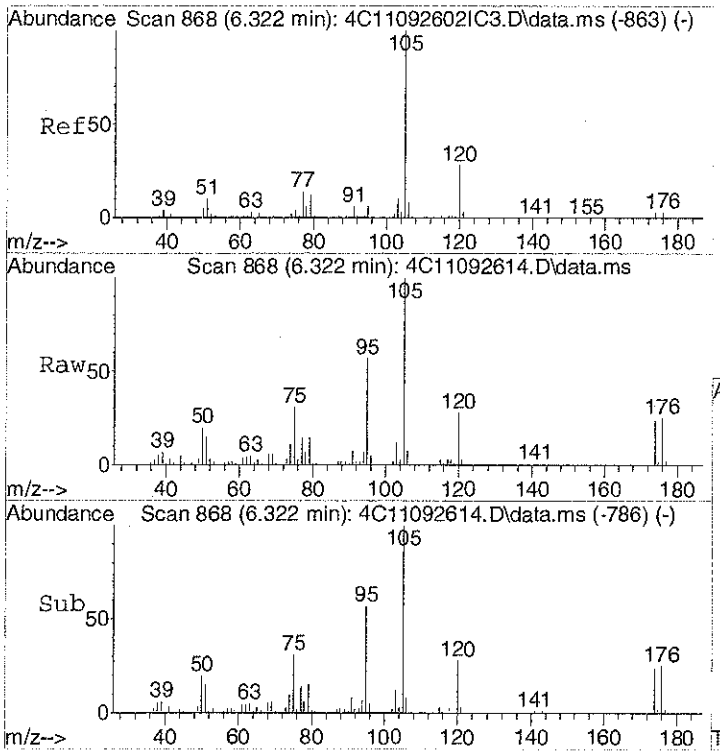


#10
Acetone
Concen: 537.50 ng
RT: 1.727 min Scan# 114
Delta R.T. -0.006 min
Lab File: 4C11092614.D
Acq: 26 Sep 2011 17:20

Tgt Ion: 43 Resp: 1751791

Ion	Ratio	Lower	Upper
43	100		
58	32.4	21.6	44.8

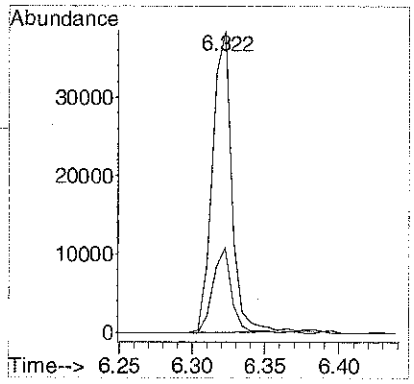




#51
Isopropylbenzene
Concen: 12.02 ng
RT: 6.322 min Scan# 868
Delta R.T. 0.003 min
Lab File: 4C11092614.D
Acq: 26 Sep 2011 17:20

Tgt Ion:105 Resp: 360255

Ion	Ratio	Lower	Upper
105	100		
120	27.6	16.7	34.7



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092615.D
Acq On : 26 Sep 2011 17:43
Operator : CTANG
Sample : 1109008-05
Misc : 1109008-05 Filtrate Vial 1, 1:10 Dilution
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 27 08:48:40 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

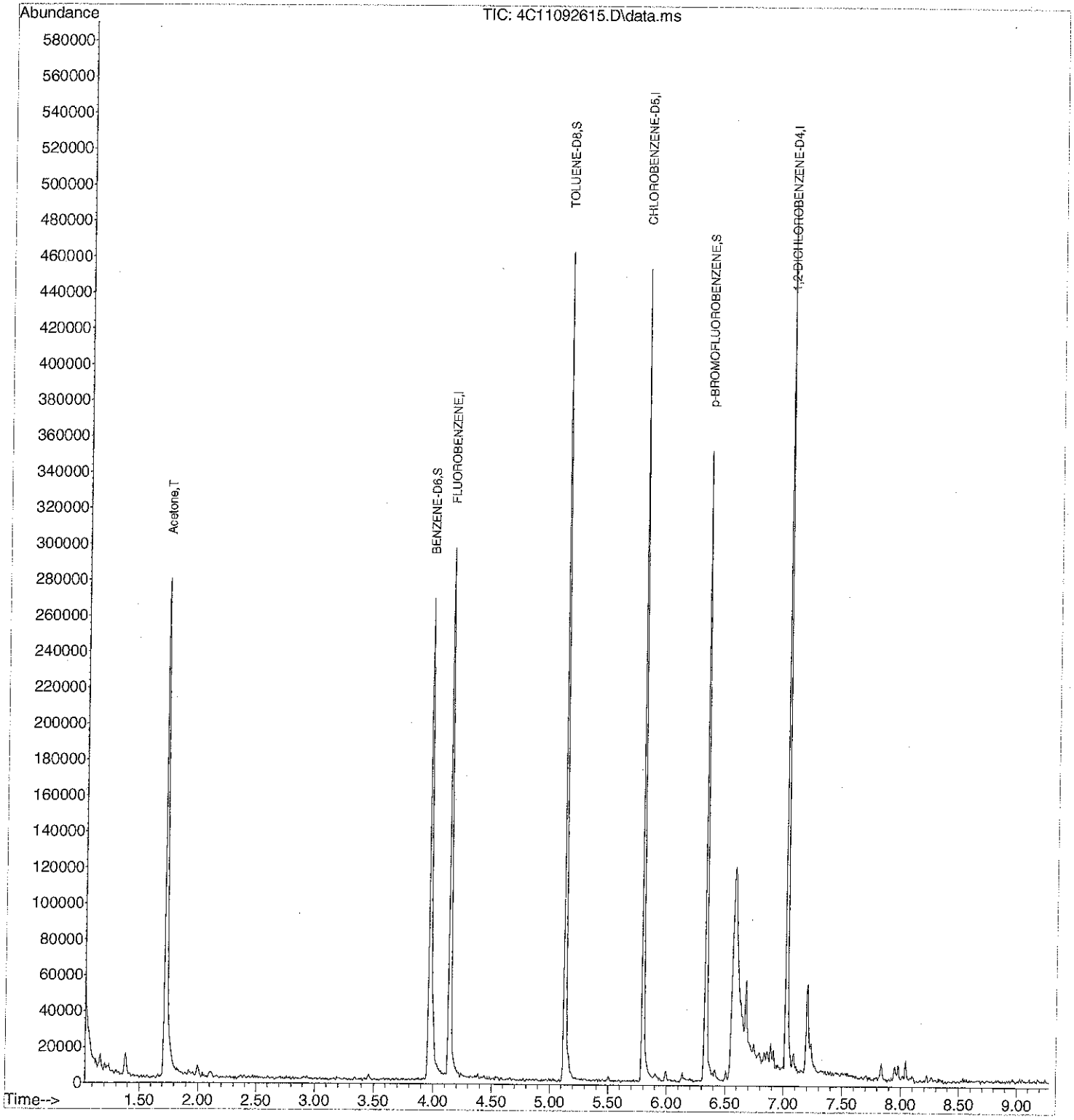
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.141	96	1593482	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.795	82	746941	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.026	152	673266	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.971	84	1518398	37.04 ng	0.00
34) TOLUENE-D8	5.129	98	1553479	46.29 ng	0.00
52) p-BROMOFLUOROBENZENE	6.332	95	642005	56.69 ng	0.00
Target Compounds					Qvalue
10) Acetone	1.726	43	2709270	784.80 ng	98

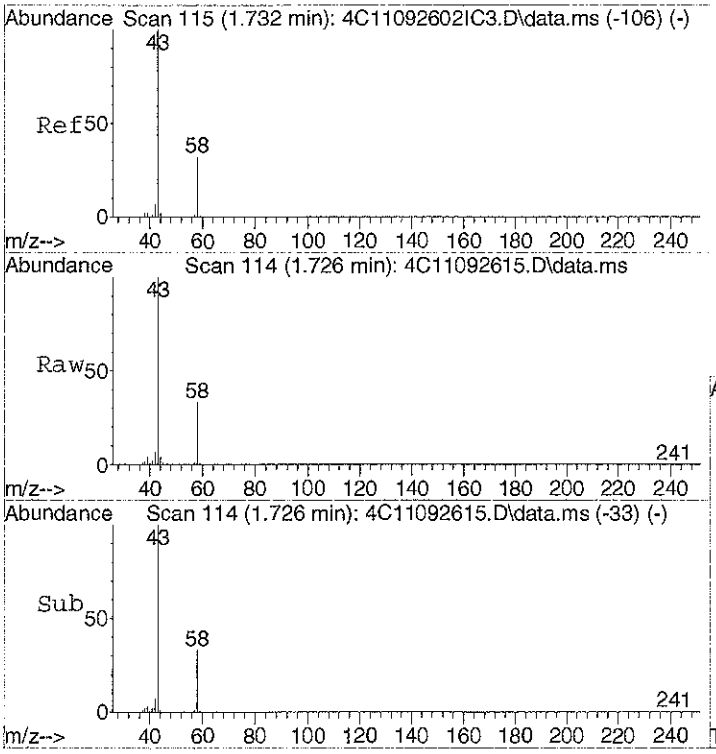
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110926\
Data File : 4C11092615.D
Acq On : 26 Sep 2011 17:43
Operator : CTANG
Sample : 1109008-05
Misc : 1109008-05 Filtrate Vial 1, 1:10 Dilution
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Sep 27 08:48:40 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

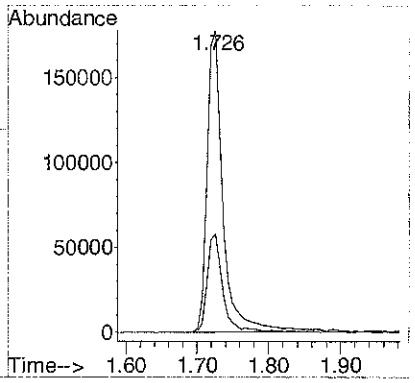




#10
Acetone
Concen: 784.80 ng
RT: 1.726 min Scan# 114
Delta R.T. -0.006 min
Lab File: 4C11092615.D
Acq: 26 Sep 2011 17:43

Tgt Ion: 43 Resp: 2709270

Ion	Ratio	Lower	Upper
43	100		
58	32.2	21.6	44.8



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092707BLK.D
Acq On : 27 Sep 2011 15:32
Operator : CTANG
Sample : 1109008-07
Misc : Lab Blank used to creat dummy 1109008-07 samp
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 27 16:22:53 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

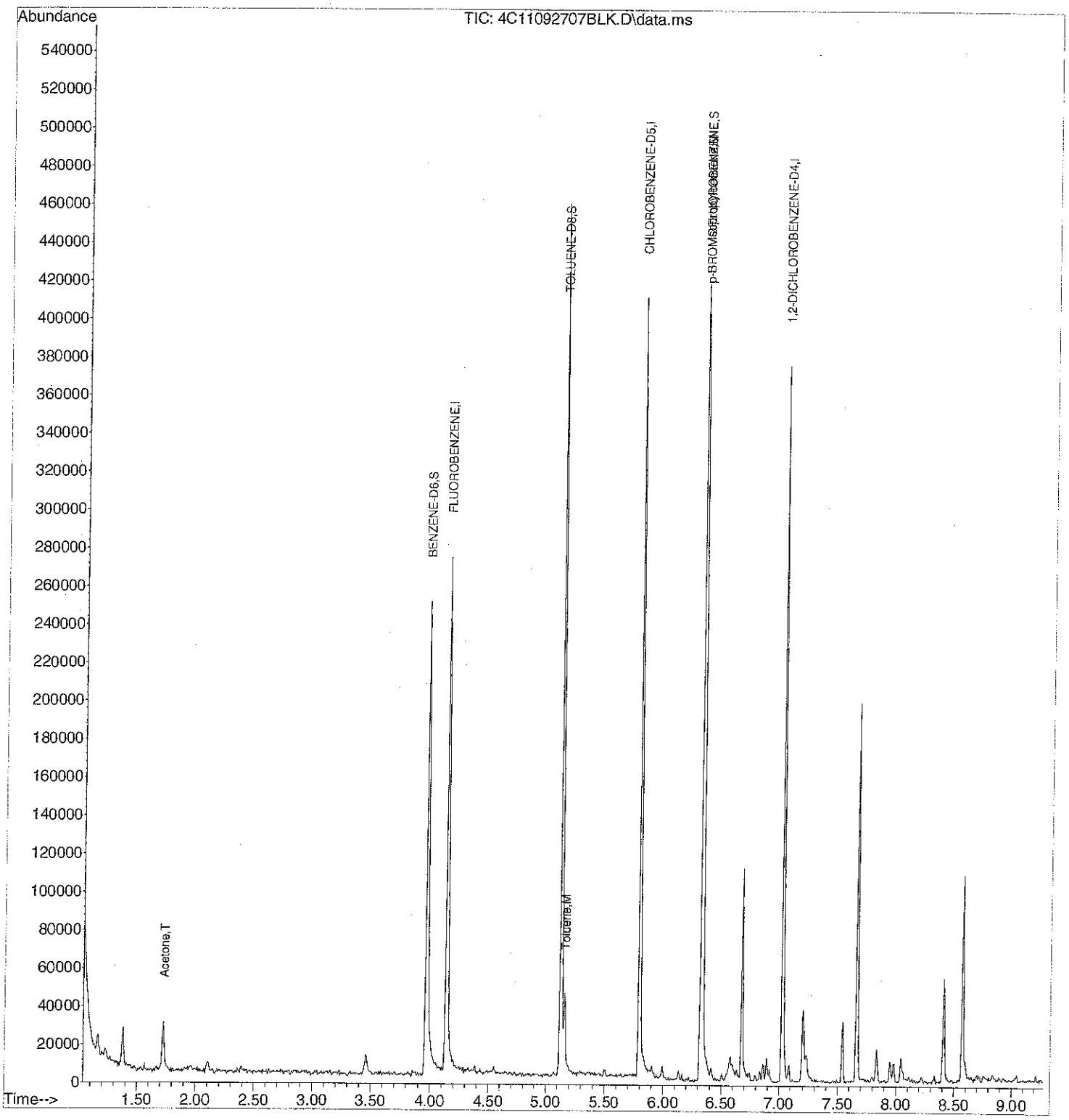
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.142	96	1536510	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.796	82	692552	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.027	152	504822	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.972	84	1460040	36.94 ng	0.00
34) TOLUENE-D8	5.129	98	1517504	46.90 ng	0.00
52) p-BROMOFLUOROBENZENE	6.334	95	601682	57.31 ng	0.00
Target Compounds					Qvalue
10) Acetone	1.727	43	205439	61.72 ng	86
35) Toluene	5.163	91	144957	3.86 ng	100
51) Isopropylbenzene	6.323	105	1129623	39.64 ng	98

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

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092707BLK.D
Acq On : 27 Sep 2011 15:32
Operator : CTANG
Sample : 1109008-07
Misc : Lab Blank used to creat dummy 1109008-07 samp
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 27 16:22:53 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092706.D
Acq On : 27 Sep 2011 14:41
Operator : CTANG
Sample : 1109008-08
Misc : 1109008-07 Acqueous 10x20 Dilution
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 15:05:42 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units		Dev(Min)
1) FLUOROBENZENE	4.141	96	1818321	50.00 ng		0.00
43) CHLOROBENZENE-D5	5.795	82	845424	50.00 ng		0.00
66) 1,2-DICHLOROBENZENE-D4	7.026	152	810349	50.00 ng		0.00
System Monitoring Compounds						
24) BENZENE-D6	3.971	84	1751478	37.44 ng		0.00
34) TOLUENE-D8	5.128	98	1754556	45.82 ng		0.00
52) p-BROMOFLUOROBENZENE	6.336	95	668273	52.14 ng		0.00
Target Compounds						Qvalue
10) Acetone	1.724	43	97114662	24652.85 ng		97 X
16) 2-Butanone	2.939	43	191535	37.87 ng		94
26) Benzene	3.997	78	15024864	399.08 ng		98 ✓
35) Toluene	5.162	91	47125208	1061.48 ng		100 X
38) 1,3-Dichloropropane	5.162	76	217820	16.54 ng		100
46) Ethylbenzene	5.902	91	464282m	11.93 ng		
51) Isopropylbenzene	6.325	105	119498815	3435.08 ng	#	72 X
70) 1,2,4-Trichlorobenzene	7.835	180	184538	13.22 ng		99
71) Hexachlorobutadiene	7.980	225	116244	15.85 ng		96
72) Naphthalene	7.950	128	520159	14.03 ng	#	71
73) 1,2,3-Trichlorobenzene	8.045	180	165906	11.44 ng		91

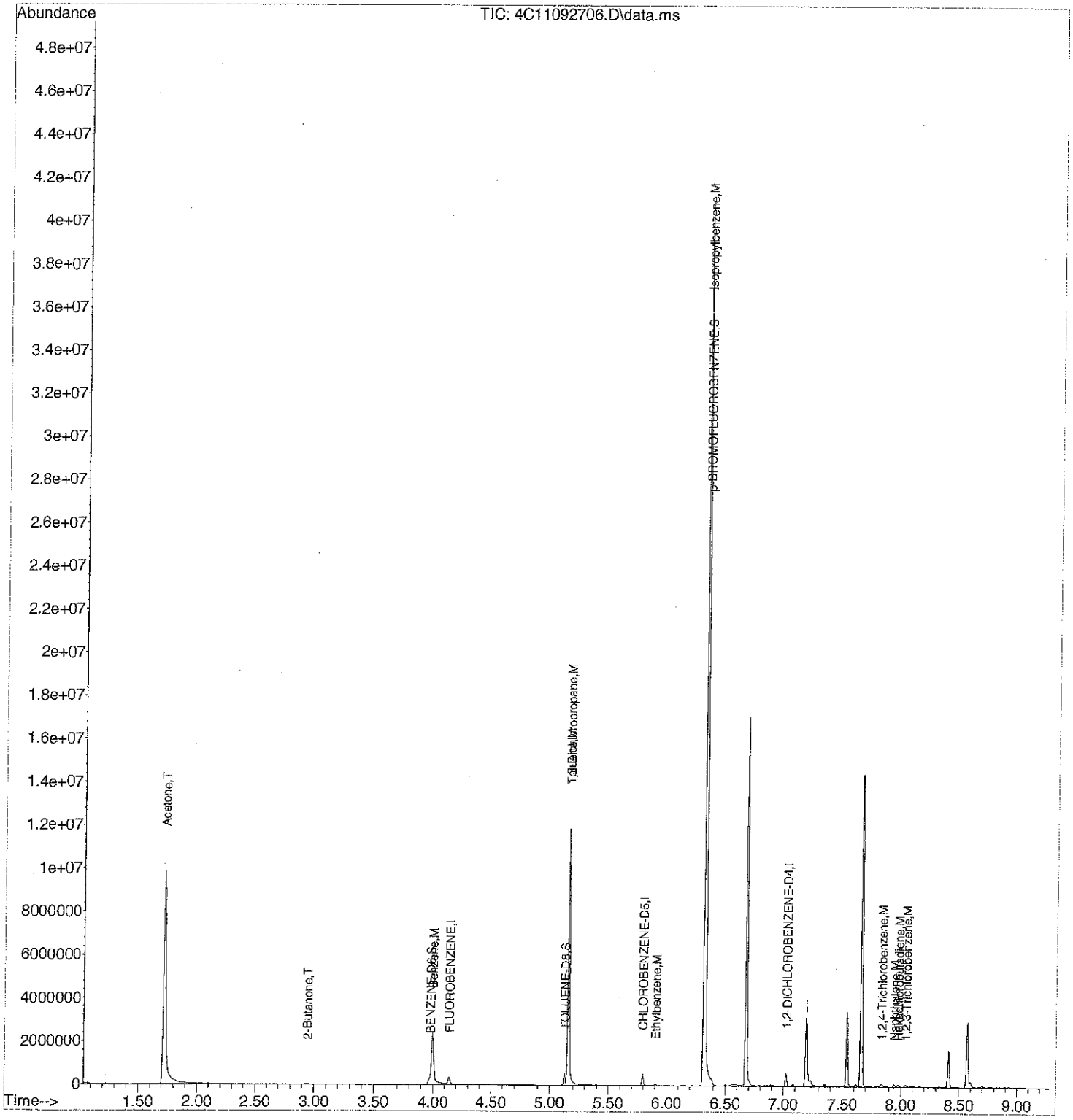
(#) = qualifier out of range (m) = manual integration (+) = signals summed

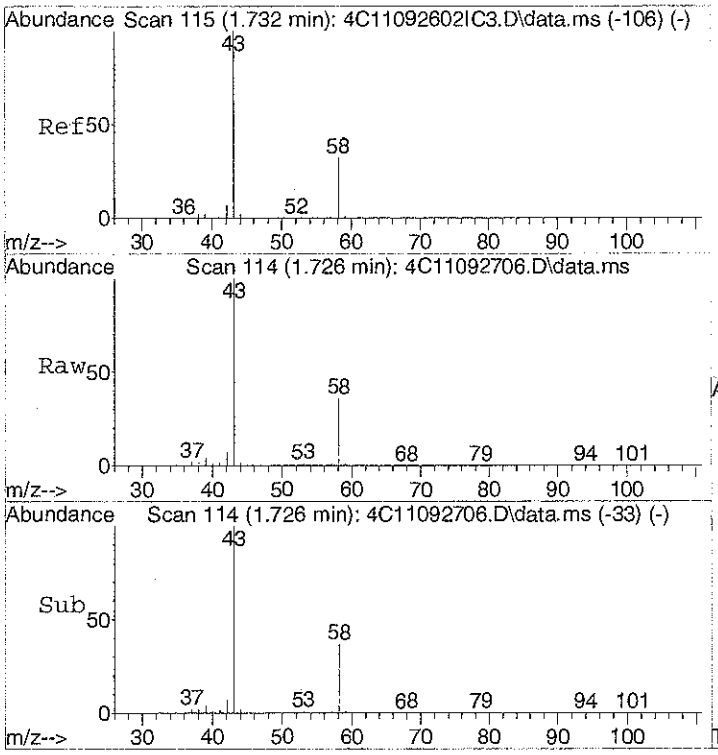
X These 3 compds need additional dilution
cmy 9/29/11

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092706.D
Acq On : 27 Sep 2011 14:41
Operator : CTANG
Sample : 1109008-08
Misc : 1109008-07 Acqueous 10x20 Dilution
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 27 15:05:42 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

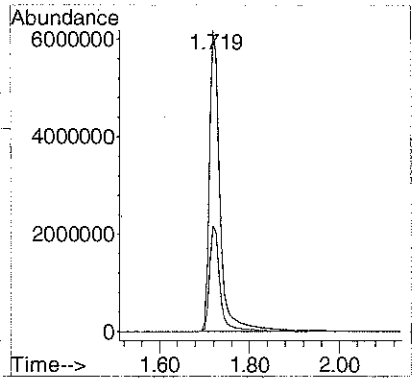


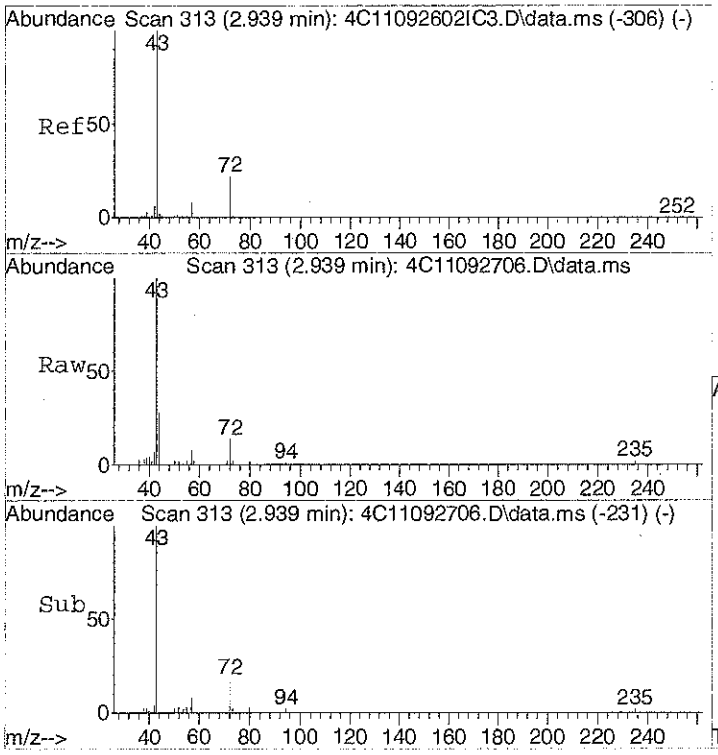


#10
Acetone
Concen: 24652.85 ng
RT: 1.724 min Scan# 114
Delta R.T. -0.009 min
Lab File: 4C11092706.D
Acq: 27 Sep 2011 14:41

Tgt Ion: 43 Resp:97114662

Ion	Ratio	Lower	Upper
43	100		
58	35.0	21.6	44.8

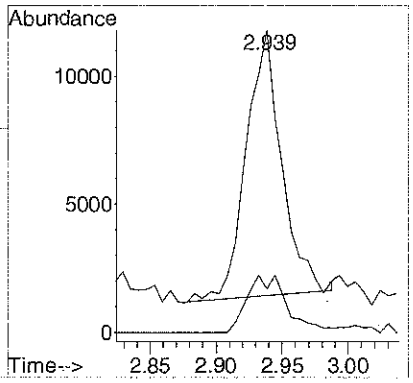


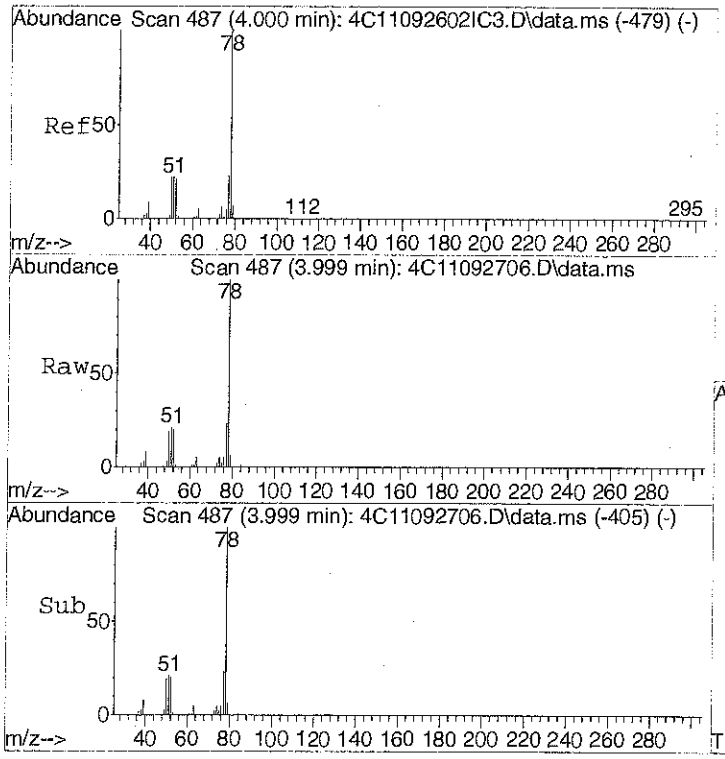


#16
2-Butanone
Concen: 37.87 ng
RT: 2.939 min Scan# 313
Delta R.T. -0.000 min
Lab File: 4C11092706.D
Acq: 27 Sep 2011 14:41

Tgt Ion: 43 Resp: 191535

Ion	Ratio	Lower	Upper
43	100		
72	21.9	12.4	25.8

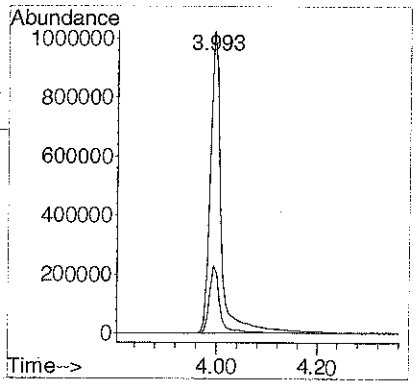


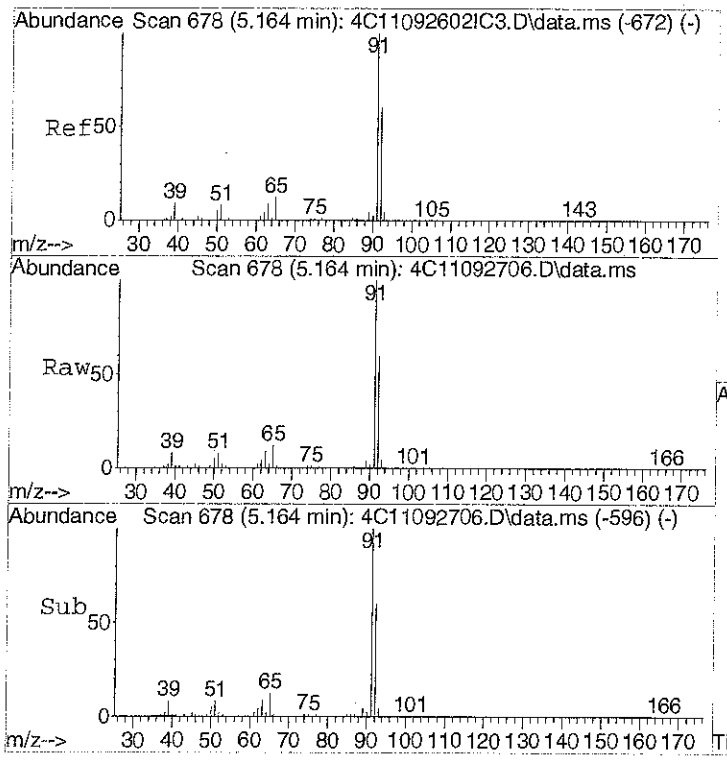


#26
Benzene
Concen: 399.08 ng
RT: 3.997 min Scan# 487
Delta R.T. -0.002 min
Lab File: 4C11092706.D
Acq: 27 Sep 2011 14:41

Tgt Ion: 78 Resp:15024864

Ion	Ratio	Lower	Upper
78	100		
77	21.5	13.5	27.9

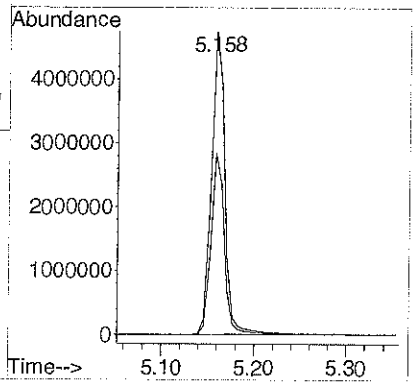


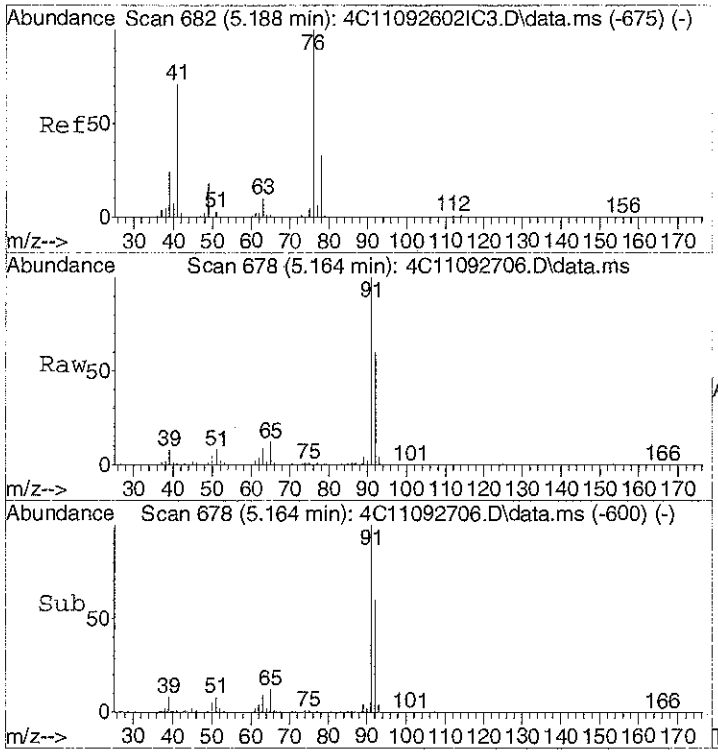


#35
Toluene
Concen: 1061.48 ng
RT: 5.162 min Scan# 678
Delta R.T. 0.000 min
Lab File: 4C11092706.D
Acq: 27 Sep 2011 14:41

Tgt Ion: 91 Resp:47125208

Ion	Ratio	Lower	Upper
91	100		
92	59.7	38.9	80.9

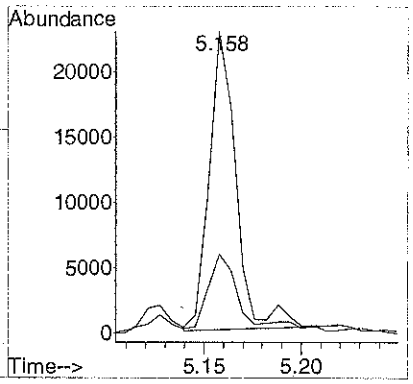


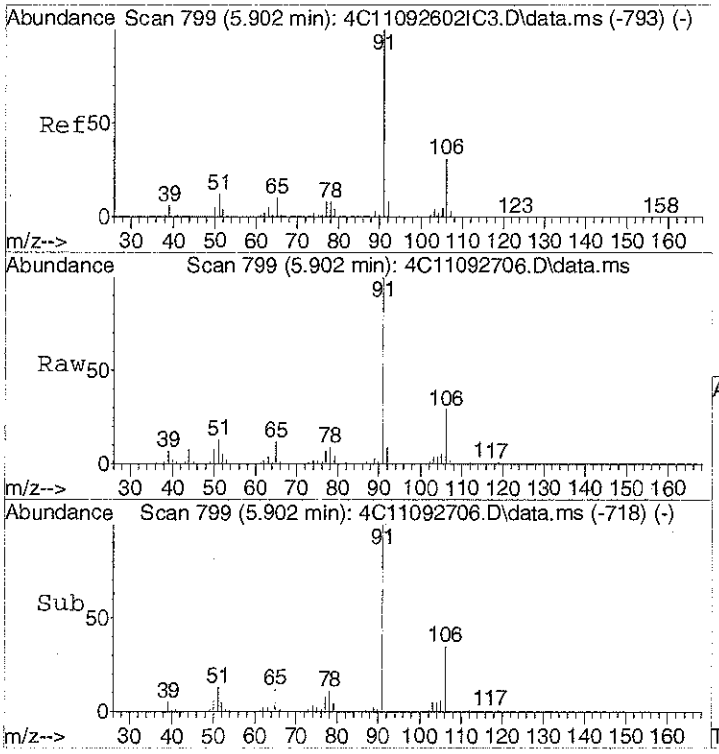


#38
1,3-Dichloropropane
Concen: 16.54 ng
RT: 5.162 min Scan# 678
Delta R.T. -0.028 min
Lab File: 4C11092706.D
Acq: 27 Sep 2011 14:41

Tgt Ion: 76 Resp: 217820

Ion	Ratio	Lower	Upper
76	100		
78	30.9	20.0	41.4

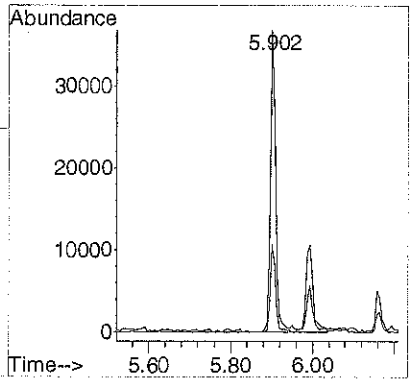


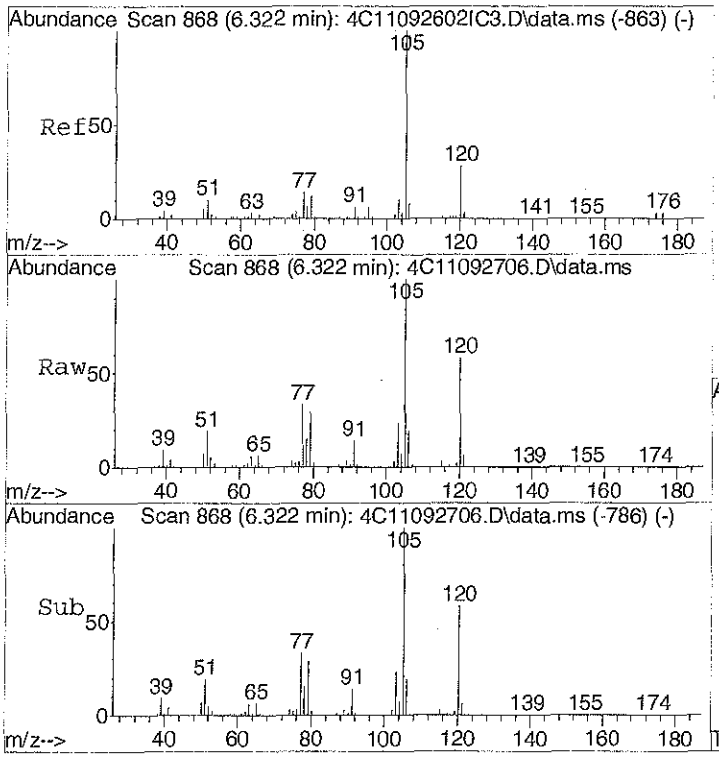


#46
Ethylbenzene
Concen: 11.93 ng m
RT: 5.902 min Scan# 799
Delta R.T. -0.004 min
Lab File: 4C11092706.D
Acq: 27 Sep 2011 14:41

Tgt Ion: 91 Resp: 464282

Ion	Ratio	Lower	Upper
91	100		
106	3488.9	20.1	41.7#

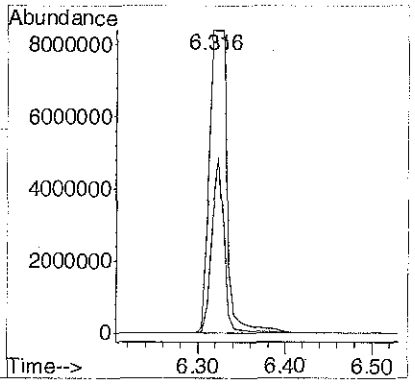


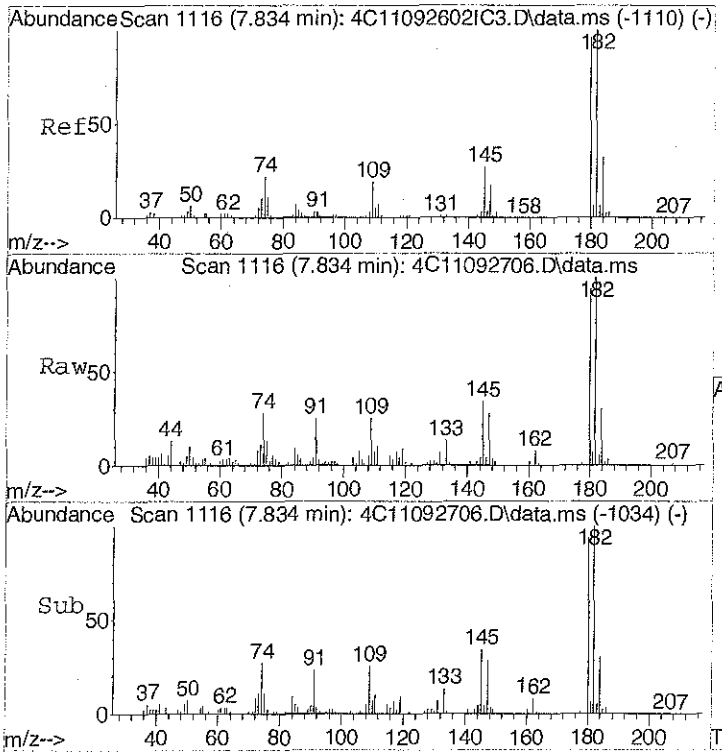


#51
Isopropylbenzene
Concen: 3435.08 ng
RT: 6.325 min Scan# 868
Delta R.T. 0.005 min
Lab File: 4C11092706.D
Acq: 27 Sep 2011 14:41

Tgt Ion:105 Resp:119498815

Ion	Ratio	Lower	Upper
105	100		
120	39.7	16.7	34.7#

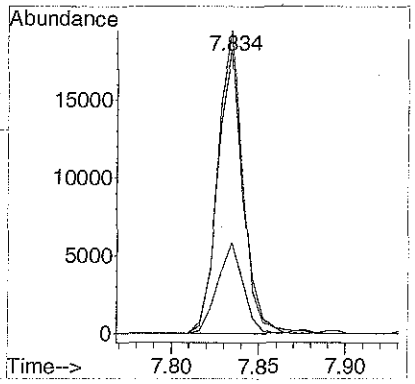


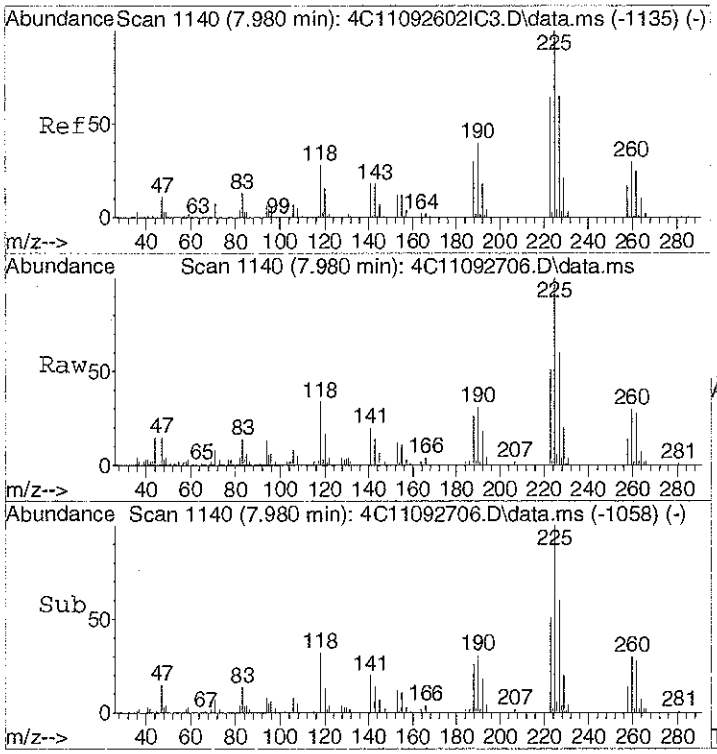


#70
1,2,4-Trichlorobenzene
Concen: 13.22 ng
RT: 7.835 min Scan# 1116
Delta R.T. 0.002 min
Lab File: 4C11092706.D
Acq: 27 Sep 2011 14:41

Tgt Ion:180 Resp: 184538

Ion	Ratio	Lower	Upper
180	100		
182	106.0	68.0	141.2
184	31.9	21.0	43.6

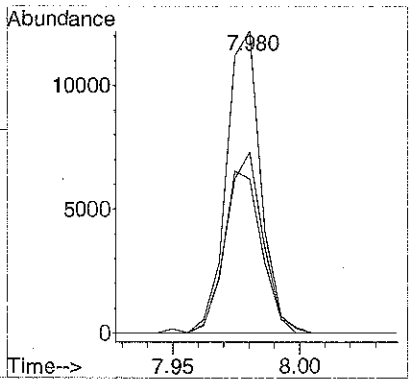


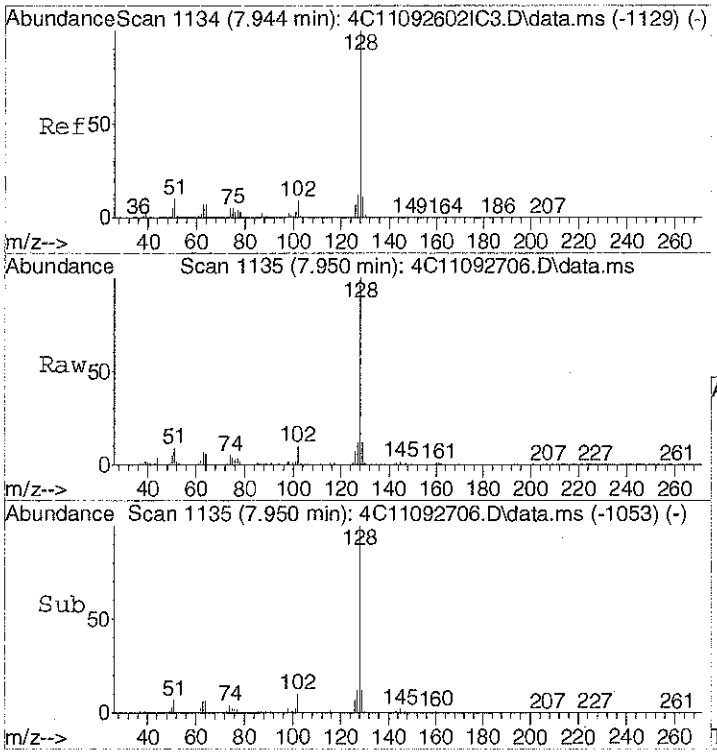


#71
Hexachlorobutadiene
Concen: 15.85 ng
RT: 7.980 min Scan# 1140
Delta R.T. 0.002 min
Lab File: 4C11092706.D
Acq: 27 Sep 2011 14:41

Tgt Ion:225 Resp: 116244

Ion	Ratio	Lower	Upper
225	100		
227	63.4	42.1	87.5
223	59.7	41.9	86.9

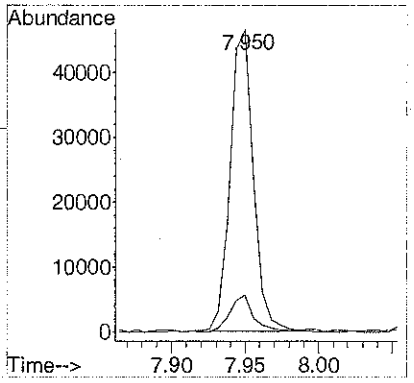


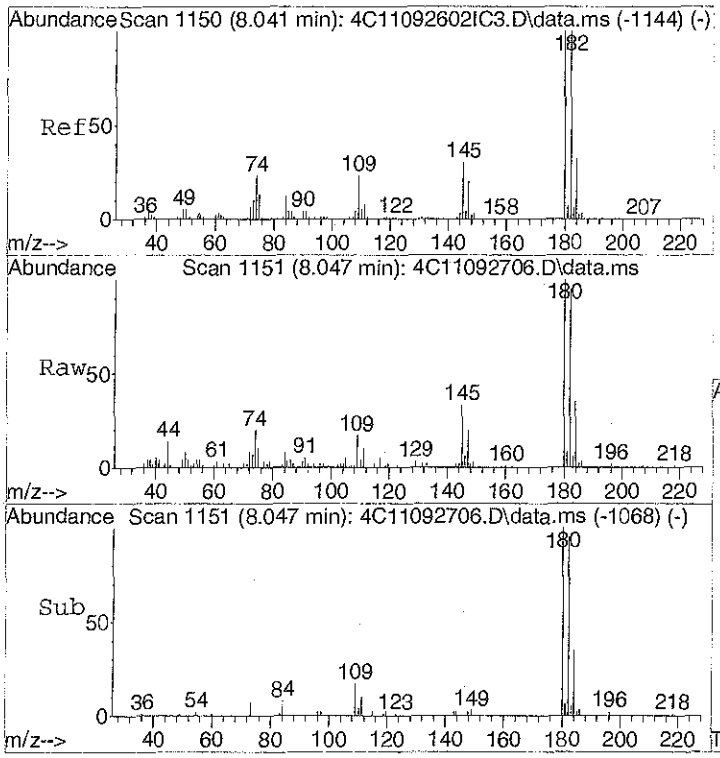


#72
Naphthalene
Concen: 14.03 ng
RT: 7.950 min Scan# 1135
Delta R.T. 0.002 min
Lab File: 4C11092706.D
Acq: 27 Sep 2011 14:41

Tgt Ion:128 Resp: 520159

Ion	Ratio	Lower	Upper
128	100		
129	0.0	7.2	15.0#

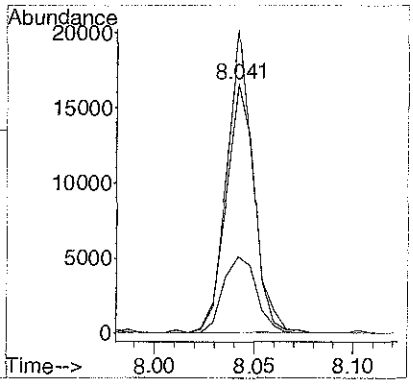




#73
1,2,3-Trichlorobenzene
Concen: 11.44 ng
RT: 8.045 min Scan# 1151
Delta R.T. 0.003 min
Lab File: 4C11092706.D
Acq: 27 Sep 2011 14:41

Tgt Ion:180 Resp: 165906

Ion	Ratio	Lower	Upper
180	100		
182	110.7	65.5	136.1
184	35.6	20.9	43.3



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092708.D
Acq On : 27 Sep 2011 15:55
Operator : CTANG
Sample : 1109008-08
Misc : 1109008-07 Acqueous 10x250 Dilution
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 27 16:17:34 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.142	96	1743617	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.796	82	802076	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.027	152	673763	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.972	84	1709331	38.11 ng	0.00
34) TOLUENE-D8	5.129	98	1691283	46.06 ng	0.00
52) p-BROMOFLUOROBENZENE	6.334	95	721720	59.35 ng	0.00
Target Compounds					Qvalue
10) Acetone	1.725	43	10590252	2803.55 ng	98 ✓
26) Benzene	3.998	78	1364700	37.80 ng	96 ✓
35) Toluene	5.163	91	5545313	130.26 ng	99 ✓
51) Isopropylbenzene	6.323	105	60510437	1833.42 ng	100 ✗

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

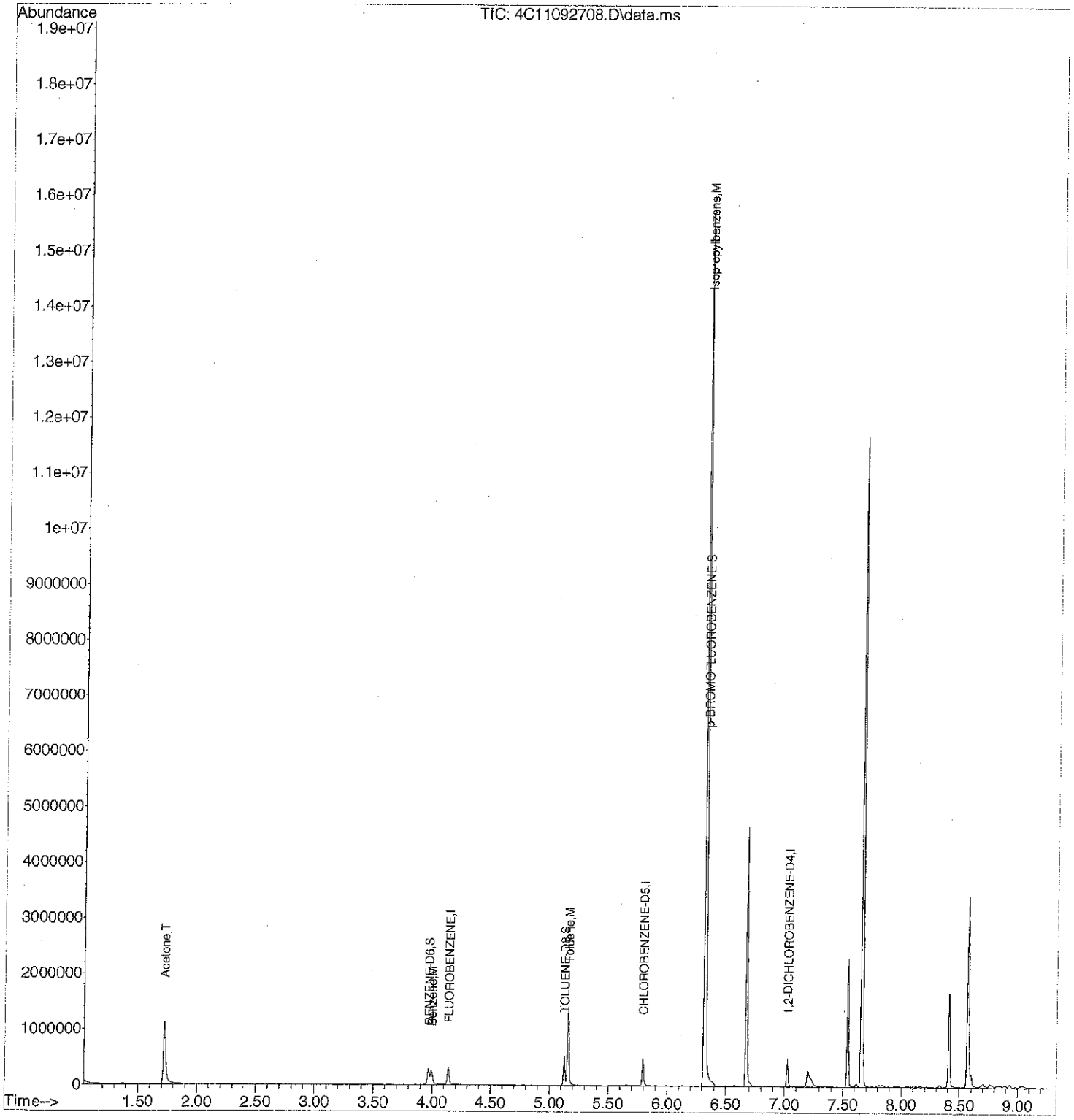
Isopropylbenzene needs additional dilution

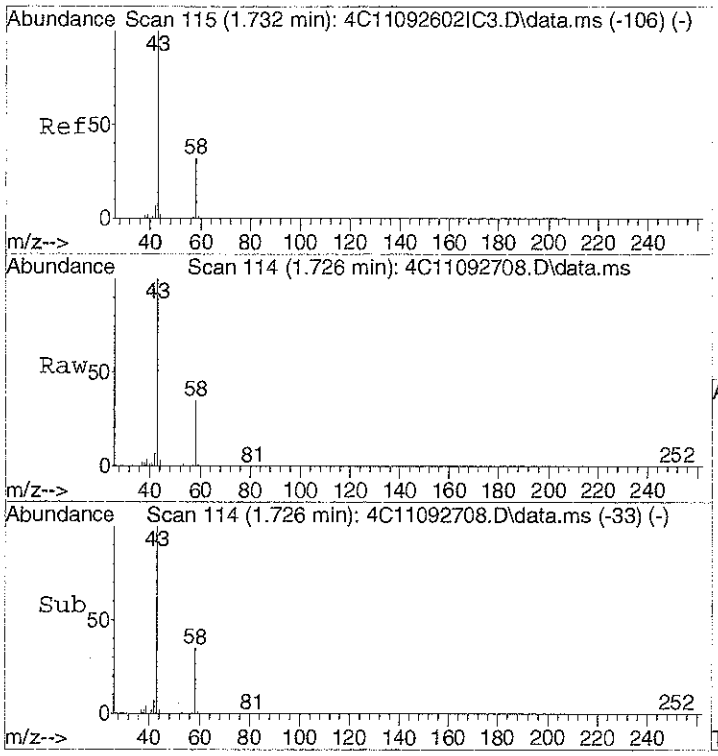
cmg 9/29/11

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092708.D
Acq On : 27 Sep 2011 15:55
Operator : CTANG
Sample : 1109008-08
Misc : 1109008-07 Acqueous 10x250 Dilution
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 27 16:17:34 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

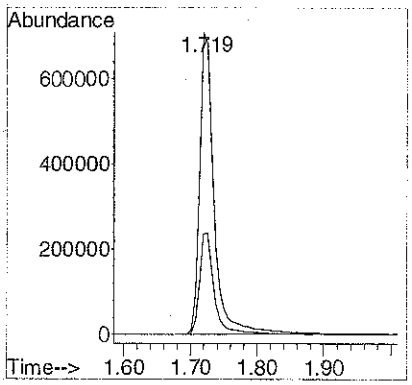


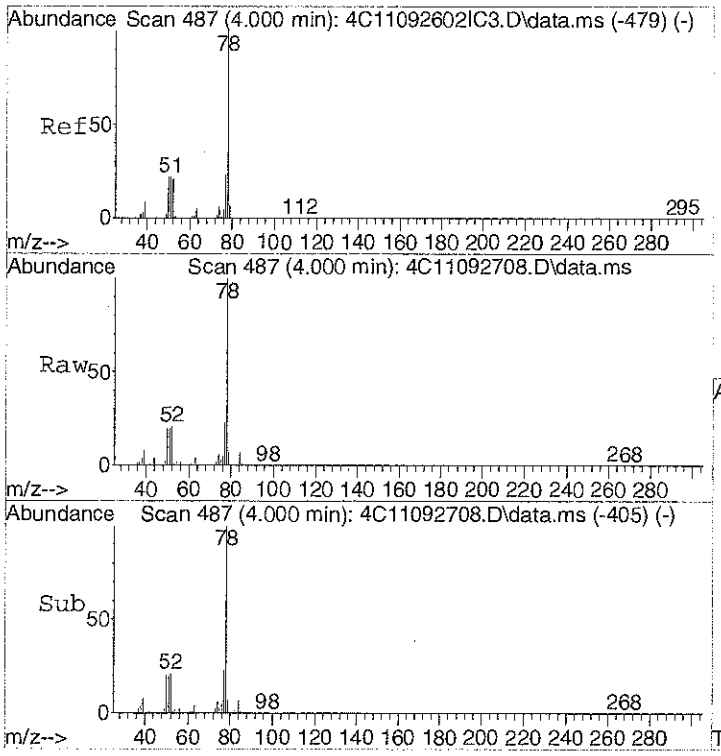


#10
Acetone
Concen: 2803.55 ng
RT: 1.725 min Scan# 114
Delta R.T. -0.008 min
Lab File: 4C11092708.D
Acq: 27 Sep 2011 15:55

Tgt Ion: 43 Resp:10590252

Ion	Ratio	Lower	Upper
43	100		
58	34.2	21.6	44.8

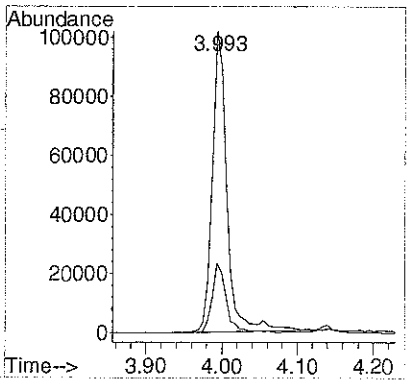


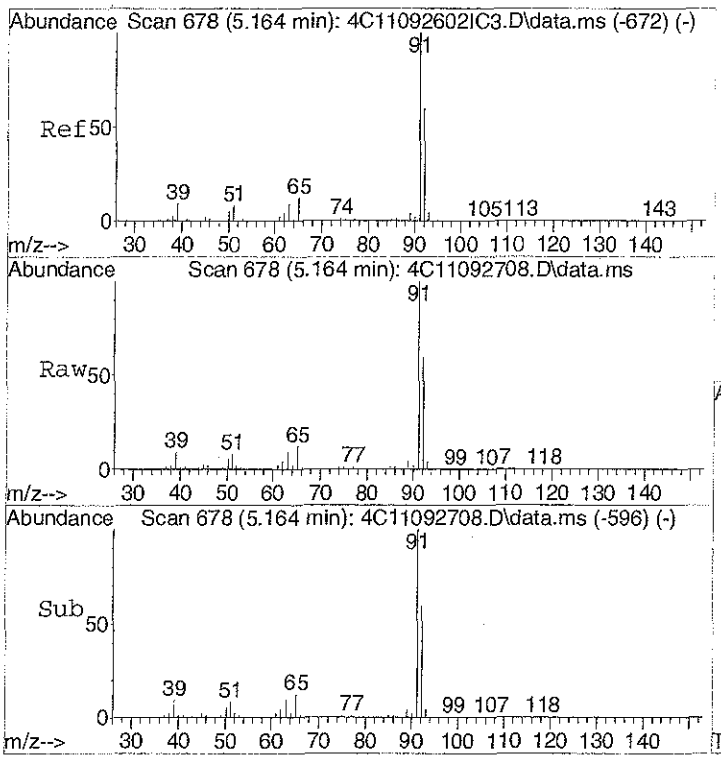


#26
Benzene
Concen: 37.80 ng
RT: 3.998 min Scan# 487
Delta R.T. -0.002 min
Lab File: 4C11092708.D
Acq: 27 Sep 2011 15:55

Tgt Ion: 78 Resp: 1364700

Ion	Ratio	Lower	Upper
78	100		
77	22.6	13.5	27.9

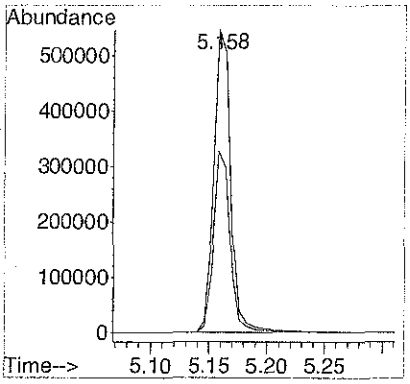


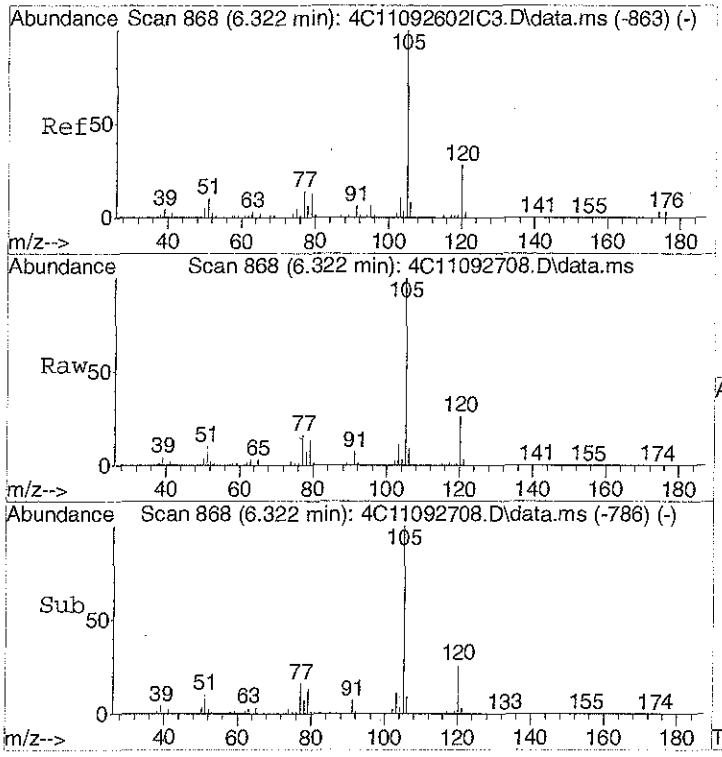


#35
Toluene
Concen: 130.26 ng
RT: 5.163 min Scan# 678
Delta R.T. 0.001 min
Lab File: 4C11092708.D
Acq: 27 Sep 2011 15:55

Tgt Ion: 91 Resp: 5545313

Ion	Ratio	Lower	Upper
91	100		
92	59.3	38.9	80.9

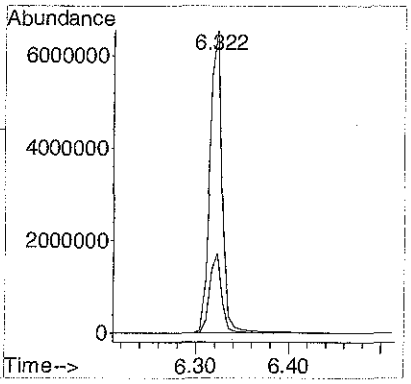




#51
Isopropylbenzene
Concen: 1833.42 ng
RT: 6.323 min Scan# 868
Delta R.T. 0.003 min
Lab File: 4C11092708.D
Acq: 27 Sep 2011 15:55

Tgt Ion:105 Resp:60510437

Ion	Ratio	Lower	Upper
105	100		
120	25.7	16.7	34.7



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092713.D
Acq On : 27 Sep 2011 17:59
Operator : CTANG
Sample : 1109008-08
Misc : 1109008-07 Acqueous 10x10x100 Dilution
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 28 08:30:36 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.141	96	1669760	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.796	82	797358	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.026	152	658440	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.971	84	1674995	38.99 ng	0.00
34) TOLUENE-D8	5.128	98	1700222	48.35 ng	0.00
52) p-BROMOFLUOROBENZENE	6.332	95	711827	58.88 ng	0.00
Target Compounds					Qvalue
10) Acetone	1.725	43	2283171	631.16 ng	97
26) Benzene	3.998	78	255208	7.38 ng	90
35) Toluene	5.162	91	979473	24.03 ng	96
51) Isopropylbenzene	6.321	105	13226670	403.13 ng	100 ✓

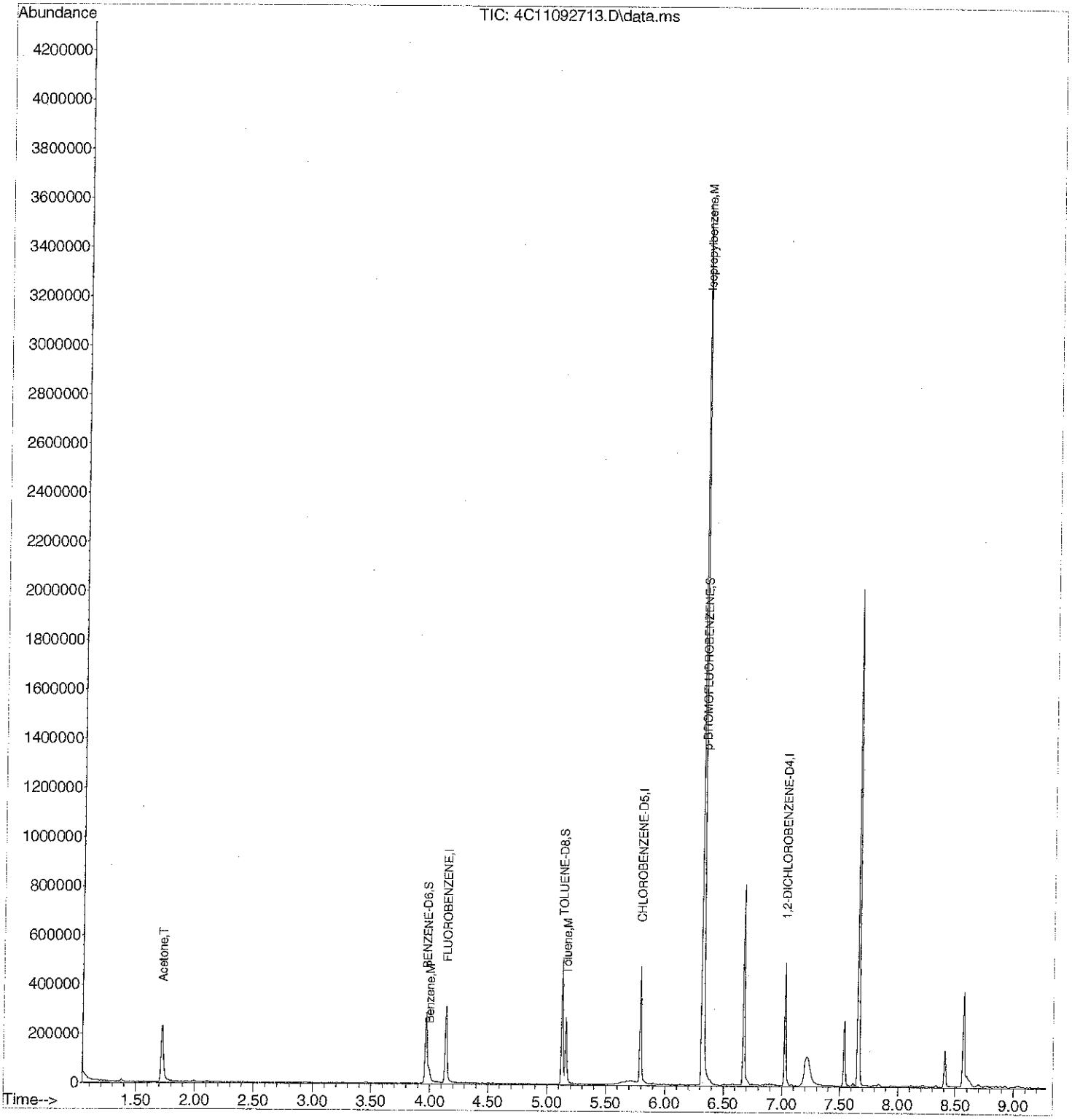
(#) = qualifier out of range (m) = manual integration (+) = signals summed

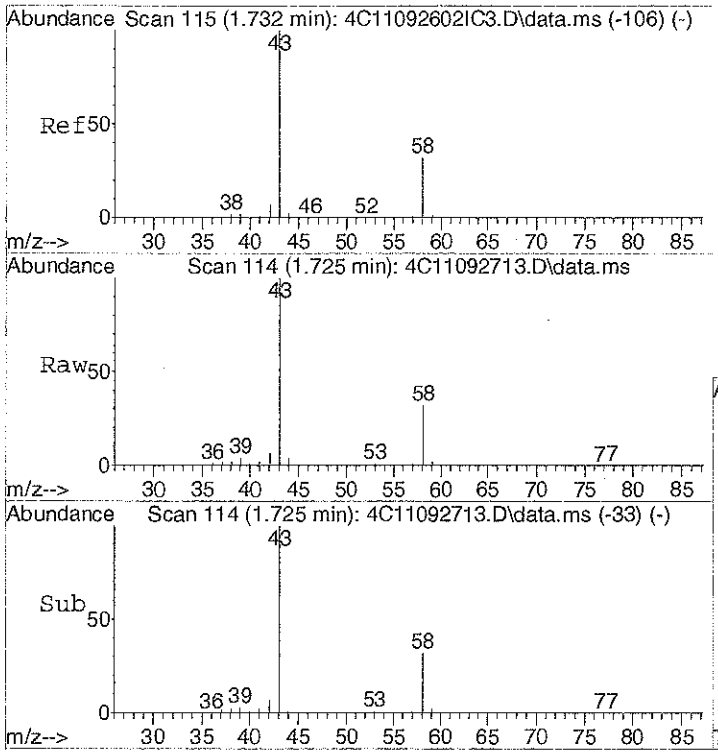
✓ report isopropylbenzene from this run
CXG 9/29/11

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092713.D
Acq On : 27 Sep 2011 17:59
Operator : CTANG
Sample : 1109008-08
Misc : 1109008-07 Acqueous 10x10x100 Dilution
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 28 08:30:36 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

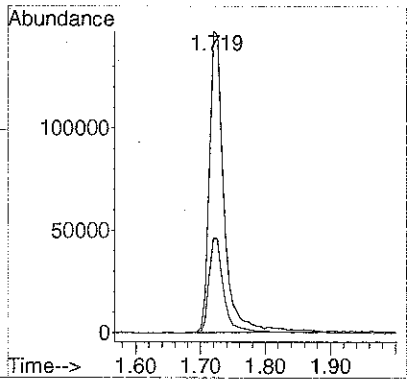


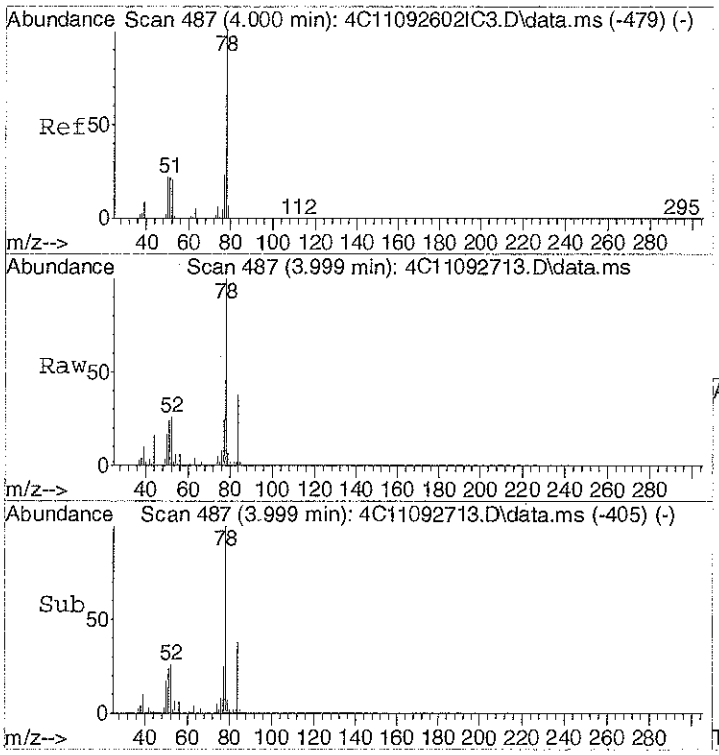


#10
Acetone
Concen: 631.16 ng
RT: 1.725 min Scan# 114
Delta R.T. -0.007 min
Lab File: 4C11092713.D
Acq: 27 Sep 2011 17:59

Tgt Ion: 43 Resp: 2283171

Ion	Ratio	Lower	Upper
43	100		
58	31.6	21.6	44.8

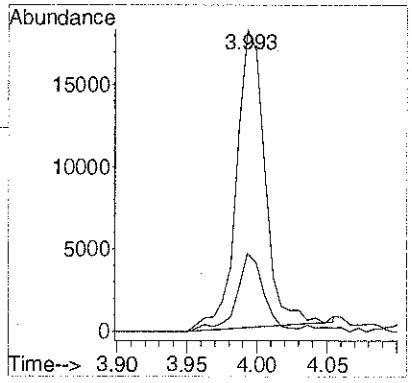


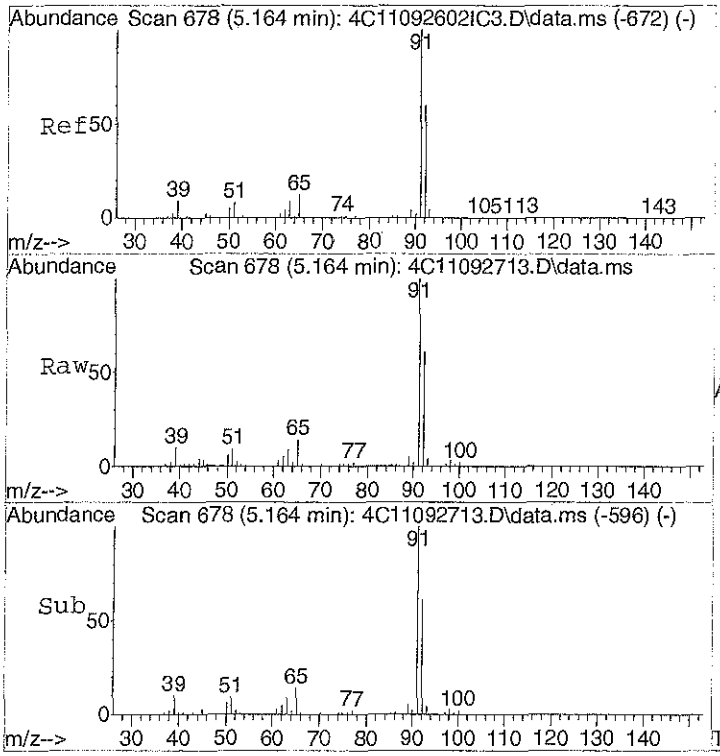


#26
Benzene
Concen: 7.38 ng
RT: 3.998 min Scan# 487
Delta R.T. -0.002 min
Lab File: 4C11092713.D
Acq: 27 Sep 2011 17:59

Tgt Ion: 78 Resp: 255208

Ion	Ratio	Lower	Upper
78	100		
77	25.3	13.5	27.9

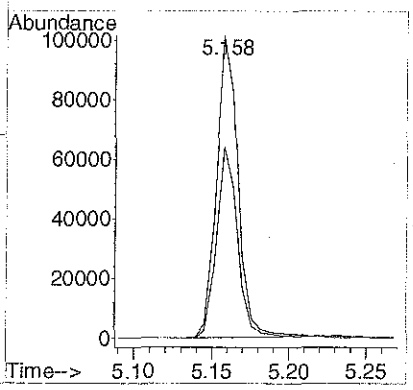


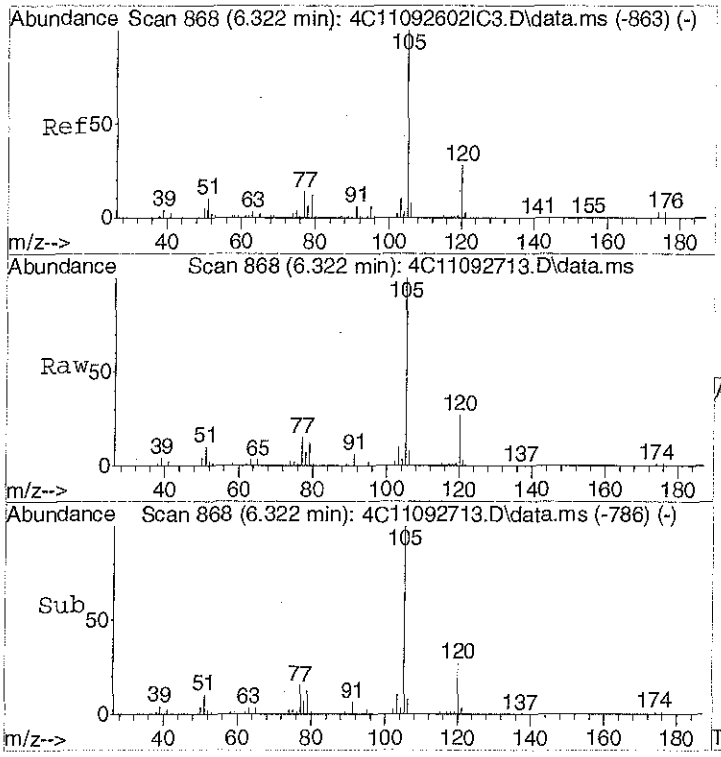


#35
Toluene
Concen: 24.03 ng
RT: 5.162 min Scan# 678
Delta R.T. 0.000 min
Lab File: 4C11092713.D
Acq: 27 Sep 2011 17:59

Tgt Ion: 91 Resp: 979473

Ion	Ratio	Lower	Upper
91	100		
92	63.1	38.9	80.9

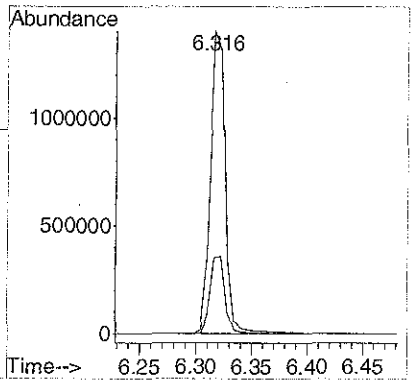




#51
Isopropylbenzene
Concen: 403.13 ng
RT: 6.321 min Scan# 868
Delta R.T. 0.002 min
Lab File: 4C11092713.D
Acq: 27 Sep 2011 17:59

Tgt Ion:105 Resp:13226670

Ion	Ratio	Lower	Upper
105	100		
120	25.9	16.7	34.7



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092709.D
Acq On : 27 Sep 2011 16:18
Operator : CTANG
Sample : 1109008-09
Misc : 1109008-07 Oil 100x10x20
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 27 16:33:38 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.142	96	1747262	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.796	82	823924	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.027	152	735829	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.972	84	1612265	35.87 ng	0.00
34) TOLUENE-D8	5.129	98	1723331	46.83 ng	0.00
52) p-BROMOFLUOROBENZENE	6.337	95	645105	51.64 ng	0.00
Target Compounds					Qvalue
10) Acetone	1.726	43	369421	97.59 ng	97
26) Benzene	3.998	78	3269119	90.36 ng	97 ✓
35) Toluene	5.163	91	24580716	576.19 ng	100 ✓
51) Isopropylbenzene	6.325	105	122073116	3600.65 ng #	67 ✗
53) 1,1,2,2-Tetrachloroethane	5.796	83	57207	6.07 ng #	17

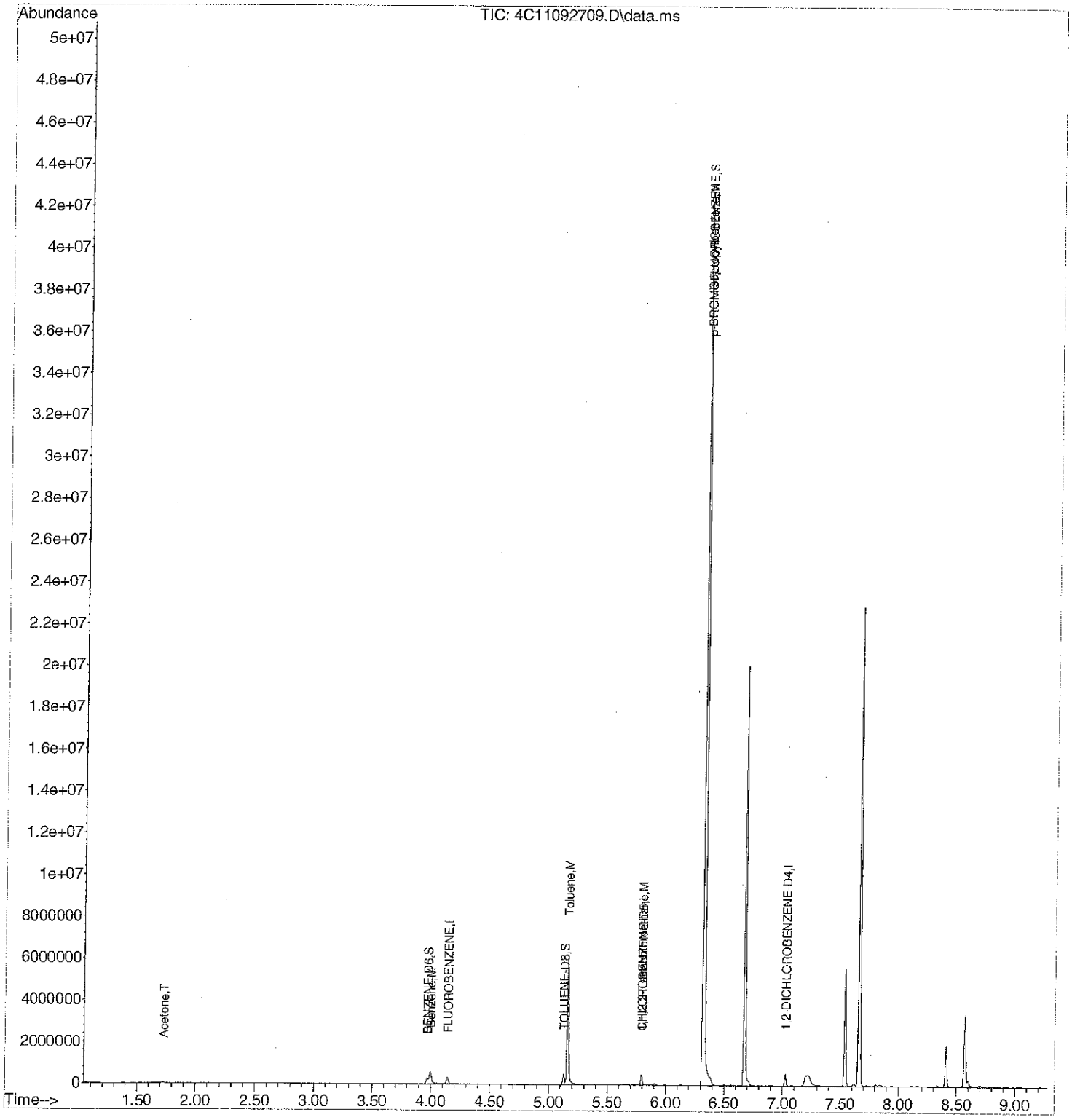
(#) = qualifier out of range (m) = manual integration (+) = signals summed

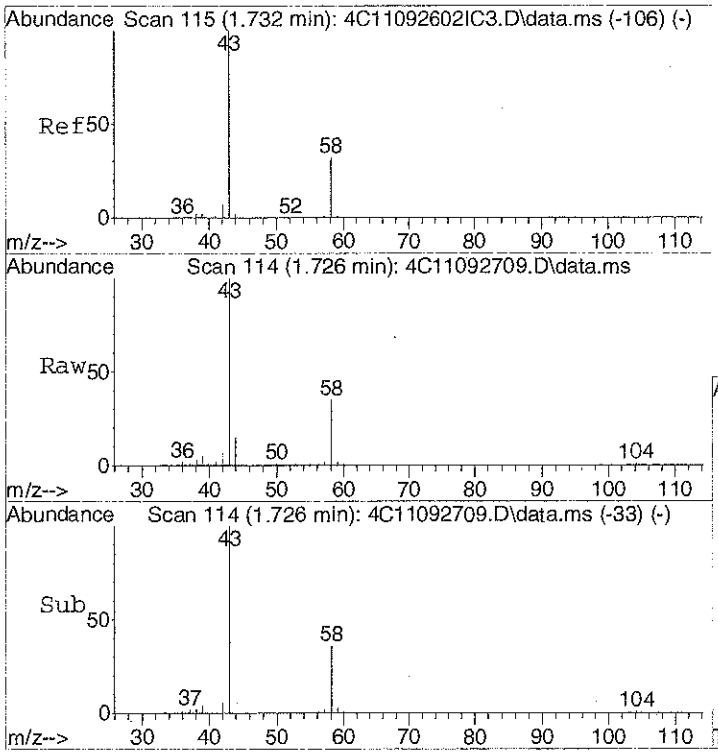
x Isopropylbenzene needs additional dilution
CMY 9/29/11

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092709.D
Acq On : 27 Sep 2011 16:18
Operator : CTANG
Sample : 1109008-09
Misc : 1109008-07 Oil 100x10x20
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 27 16:33:38 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

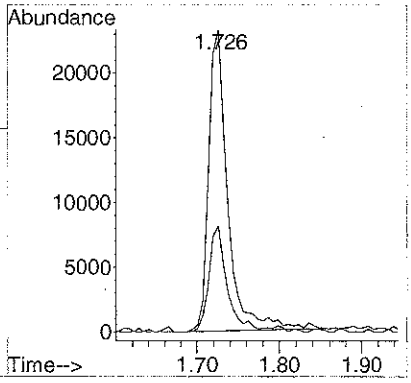


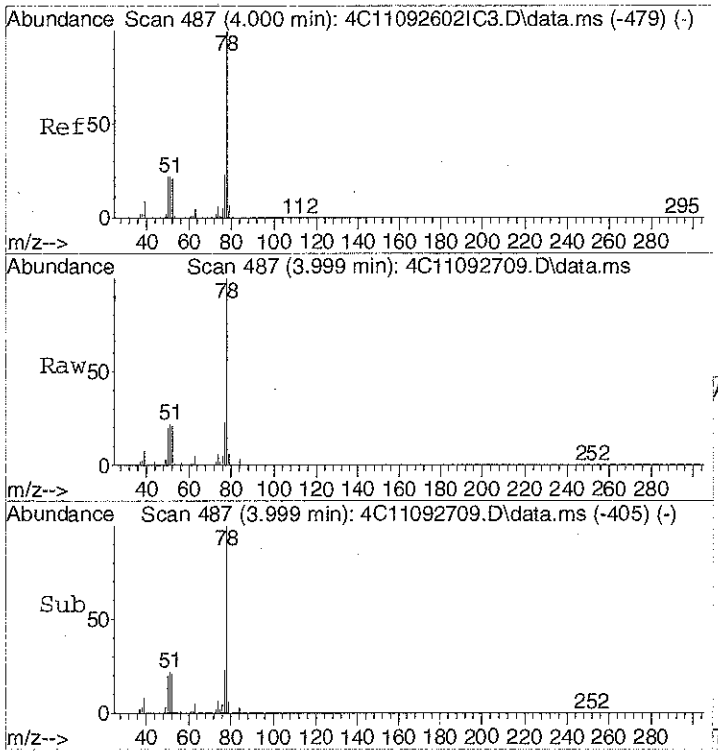


#10
Acetone
Concen: 97.59 ng
RT: 1.726 min Scan# 114
Delta R.T. -0.006 min
Lab File: 4C11092709.D
Acq: 27 Sep 2011 16:18

Tgt Ion: 43 Resp: 369421

Ion	Ratio	Lower	Upper
43	100		
58	31.6	21.6	44.8

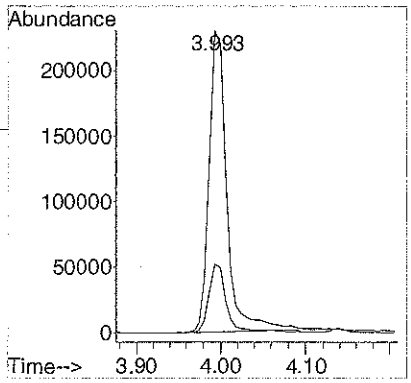


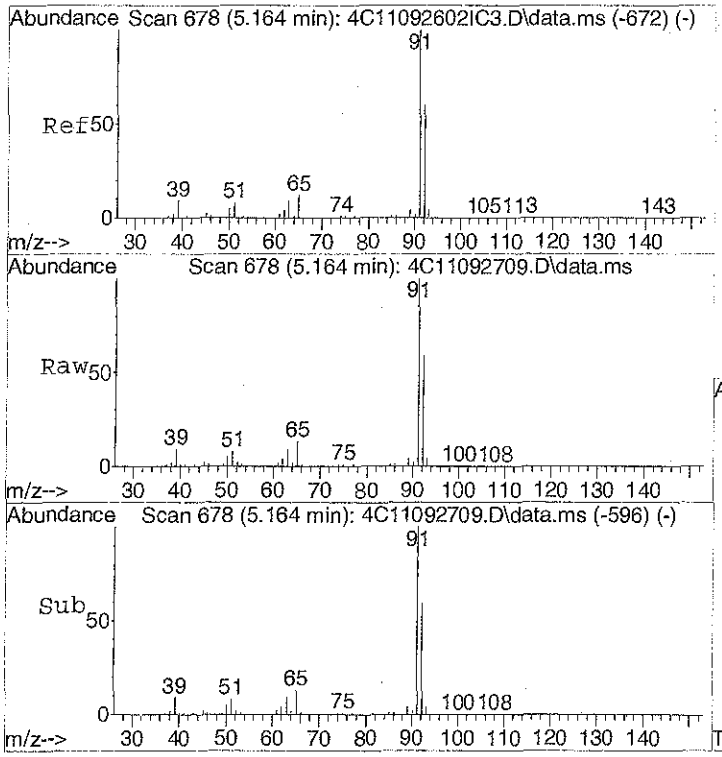


#26
Benzene
Concen: 90.36 ng
RT: 3.998 min Scan# 487
Delta R.T. -0.001 min
Lab File: 4C11092709.D
Acq: 27 Sep 2011 16:18

Tgt Ion: 78 Resp: 3269119

Ion	Ratio	Lower	Upper
78	100		
77	21.9	13.5	27.9

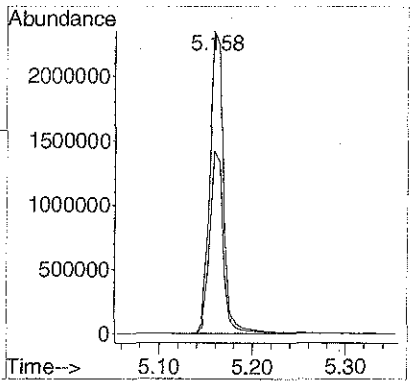


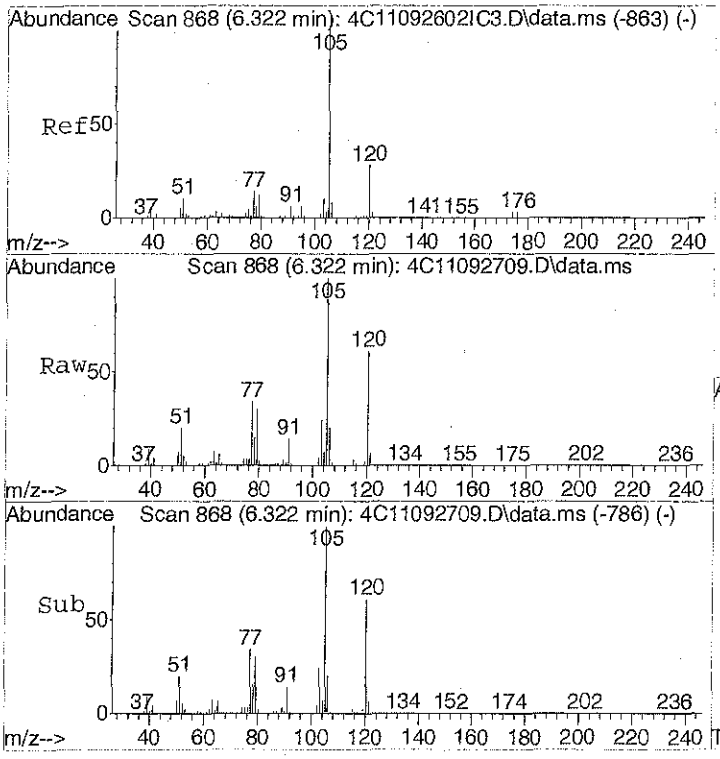


#35
Toluene
Concen: 576.19 ng
RT: 5.163 min Scan# 678
Delta R.T. 0.001 min
Lab File: 4C11092709.D
Acq: 27 Sep 2011 16:18

Tgt Ion: 91 Resp:24580716

Ion	Ratio	Lower	Upper
91	100		
92	59.6	38.9	80.9

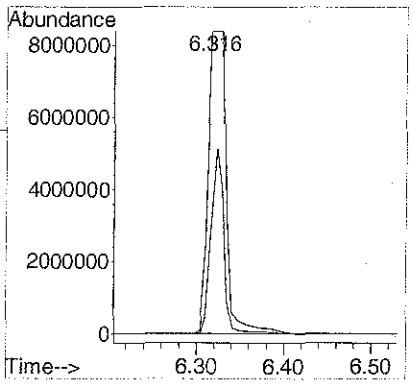


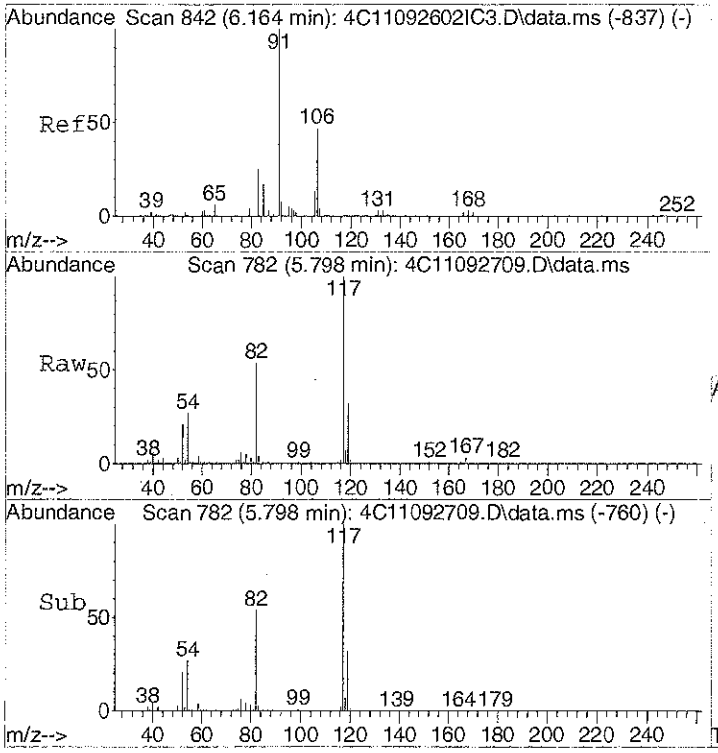


#51
Isopropylbenzene
Concen: 3600.65 ng
RT: 6.325 min Scan# 868
Delta R.T. 0.005 min
Lab File: 4C11092709.D
Acq: 27 Sep 2011 16:18

Tgt Ion:105 Resp:122073116

Ion	Ratio	Lower	Upper
105	100		
120	42.5	16.7	34.7#

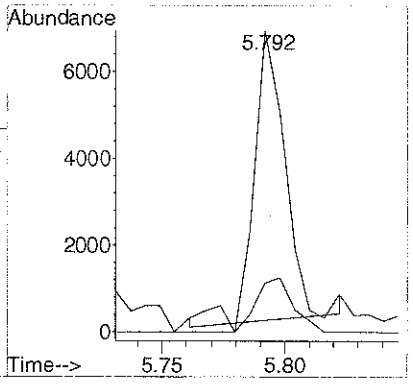




#53
1,1,2,2-Tetrachloroethane
Concen: 6.07 ng
RT: 5.796 min Scan# 782
Delta R.T. -0.365 min
Lab File: 4C11092709.D
Acq: 27 Sep 2011 16:18

Tgt Ion: 83 Resp: 57207

Ion	Ratio	Lower	Upper
83	100		
85	0.0	42.8	88.8#



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092710.D
Acq On : 27 Sep 2011 16:40
Operator : CTANG
Sample : Lab Blank
Misc : LIMS # 1080114
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 27 17:43:18 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

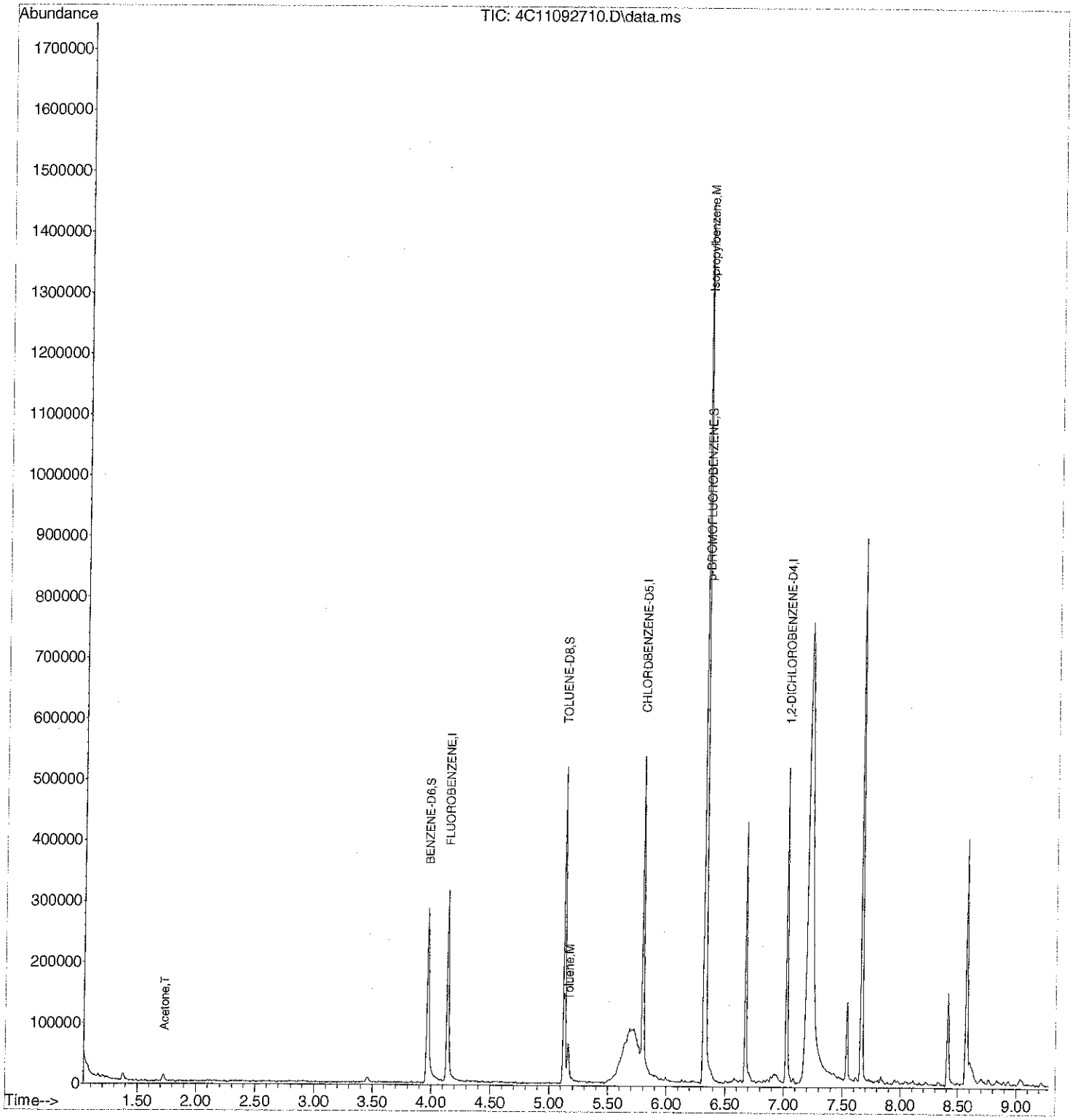
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.141	96	1741153	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.796	82	799223	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.027	152	714475	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.972	84	1732801	38.69 ng	0.00
34) TOLUENE-D8	5.129	98	1766307	48.17 ng	0.00
52) p-BROMOFLUOROBENZENE	6.333	95	763648	63.02 ng	0.00
Target Compounds					Qvalue
10) Acetone	1.726	43	88413	23.44 ng	88
35) Toluene	5.164	91	277047	6.52 ng	94
51) Isopropylbenzene	6.322	105	5263558	160.05 ng	100

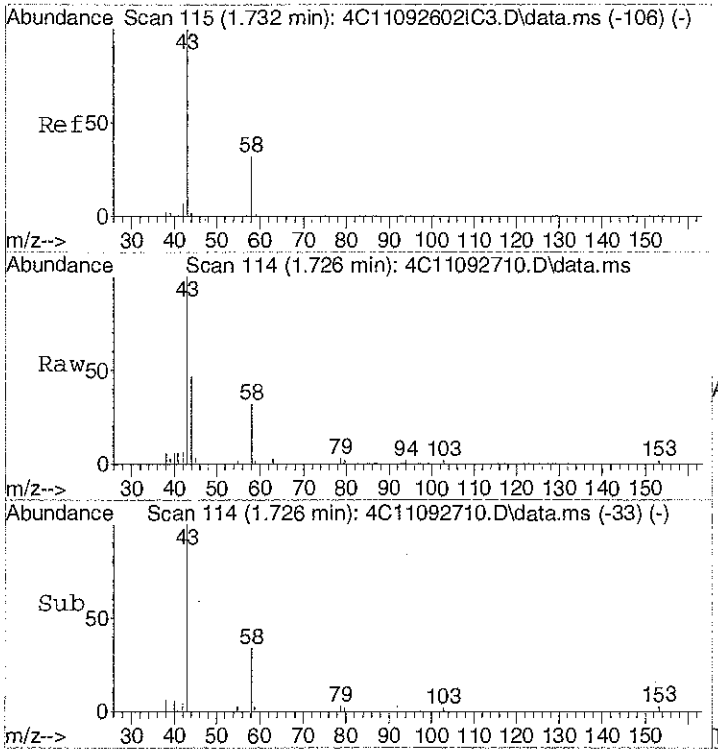
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092710.D
Acq On : 27 Sep 2011 16:40
Operator : CTANG
Sample : Lab Blank
Misc : LIMS # 1080114
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 27 17:43:18 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

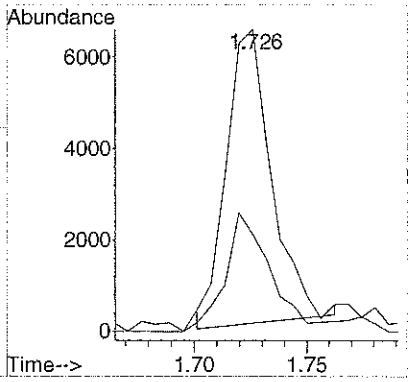


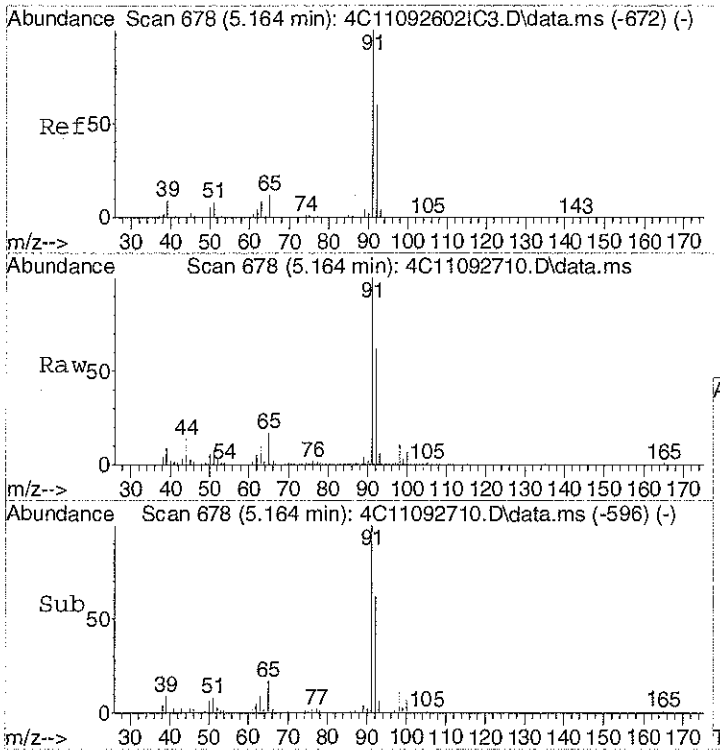


#10
Acetone
Concen: 23.44 ng
RT: 1.726 min Scan# 114
Delta R.T. -0.007 min
Lab File: 4C11092710.D
Acq: 27 Sep 2011 16:40

Tgt Ion: 43 Resp: 88413

Ion	Ratio	Lower	Upper
43	100		
58	40.2	21.6	44.8

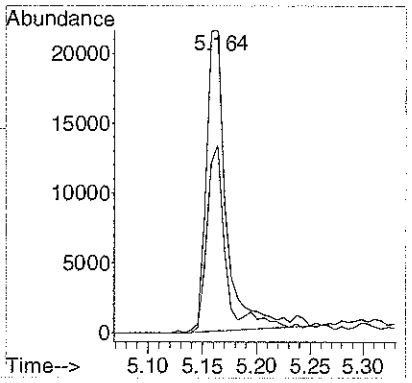


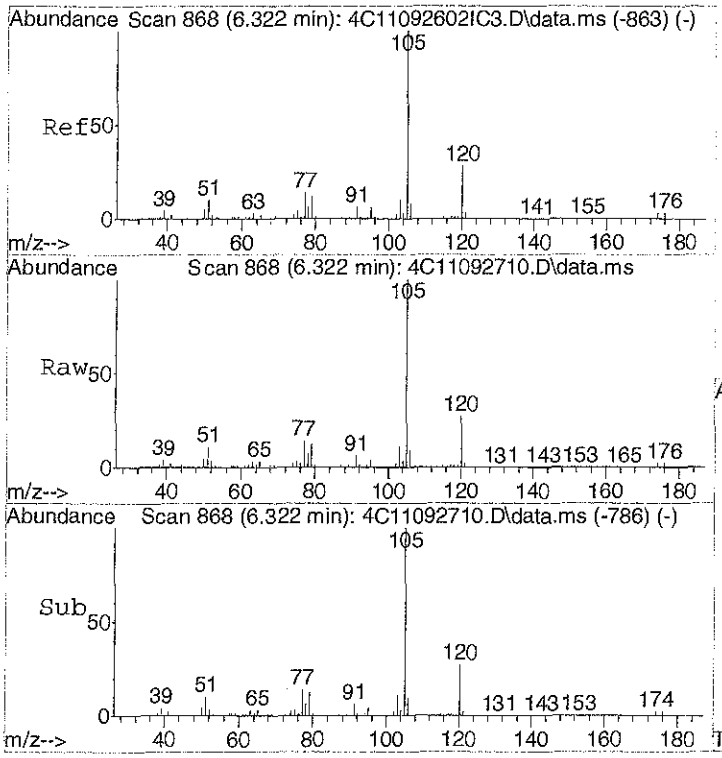


#35
Toluene
Concen: 6.52 ng
RT: 5.164 min Scan# 678
Delta R.T. 0.002 min
Lab File: 4C11092710.D
Acq: 27 Sep 2011 16:40

Tgt Ion: 91 Resp: 277047

Ion	Ratio	Lower	Upper
91	100		
92	55.5	38.9	80.9

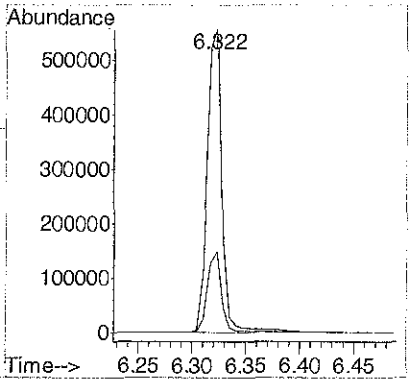




#51
Isopropylbenzene
Concen: 160.05 ng
RT: 6.322 min Scan# 868
Delta R.T. 0.003 min
Lab File: 4C11092710.D
Acq: 27 Sep 2011 16:40

Tgt Ion:105 Resp: 5263558

Ion	Ratio	Lower	Upper
105	100		
120	25.5	16.7	34.7



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092711BLK.D
Acq On : 27 Sep 2011 17:13
Operator : CTANG
Sample : Lab Blank
Misc : LIMS # 1080114
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 27 17:37:50 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

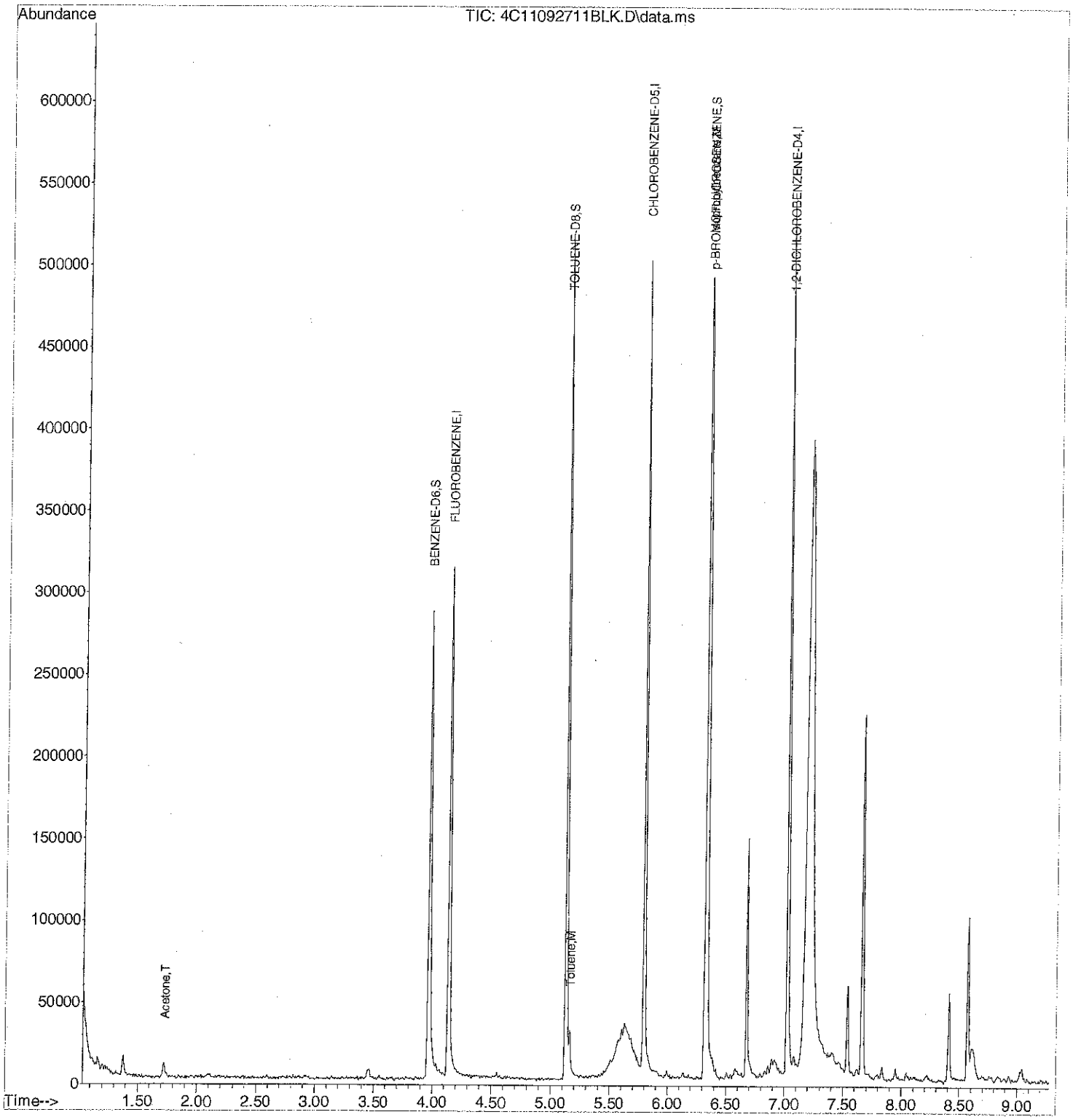
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.142	96	1752746	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.796	82	801427	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.027	152	730471	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.972	84	1685725	37.39 ng	0.00
34) TOLUENE-D8	5.129	98	1706978	46.24 ng	0.00
52) p-BROMOFLUOROBENZENE	6.333	95	691305	56.90 ng	0.00
Target Compounds					Qvalue
10) Acetone	1.726	43	96456	25.40 ng	82
35) Toluene	5.163	91	99406	2.32 ng	89
51) Isopropylbenzene	6.323	105	1502689	45.57 ng	97

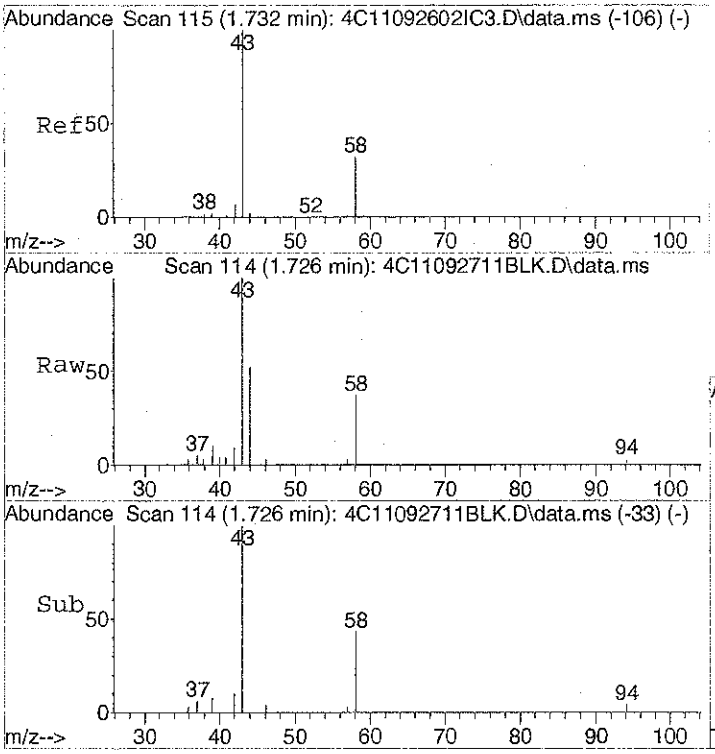
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092711BLK.D
Acq On : 27 Sep 2011 17:13
Operator : CTANG
Sample : Lab Blank
Misc : LIMS # 1080114
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 27 17:37:50 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

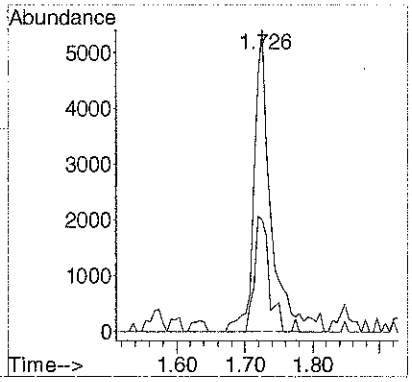


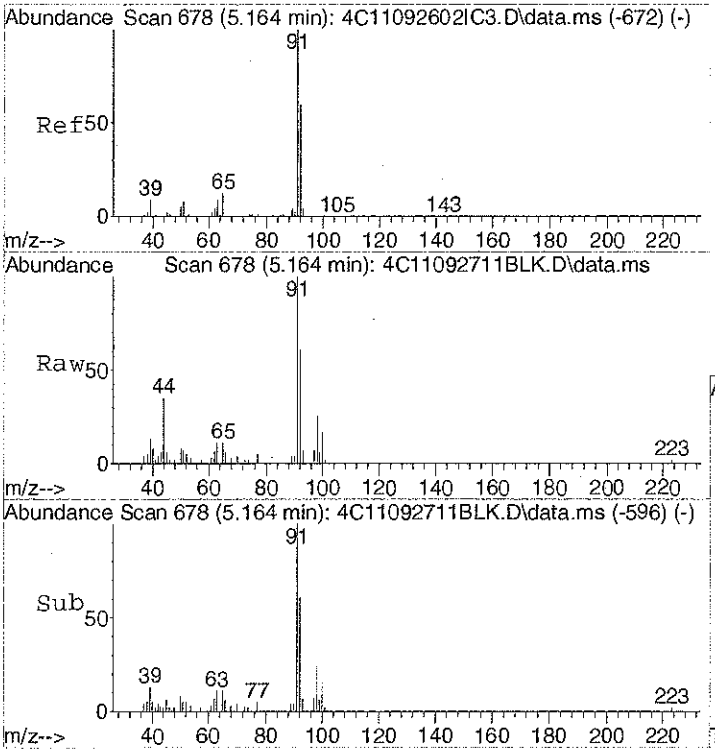


#10
Acetone
Concen: 25.40 ng
RT: 1.726 min Scan# 114
Delta R.T. -0.006 min
Lab File: 4C11092711BLK.D
Acq: 27 Sep 2011 17:13

Tgt Ion: 43 Resp: 96456

Ion	Ratio	Lower	Upper
43	100		
58	23.0	21.6	44.8

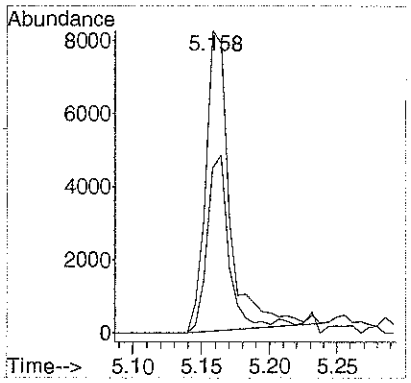


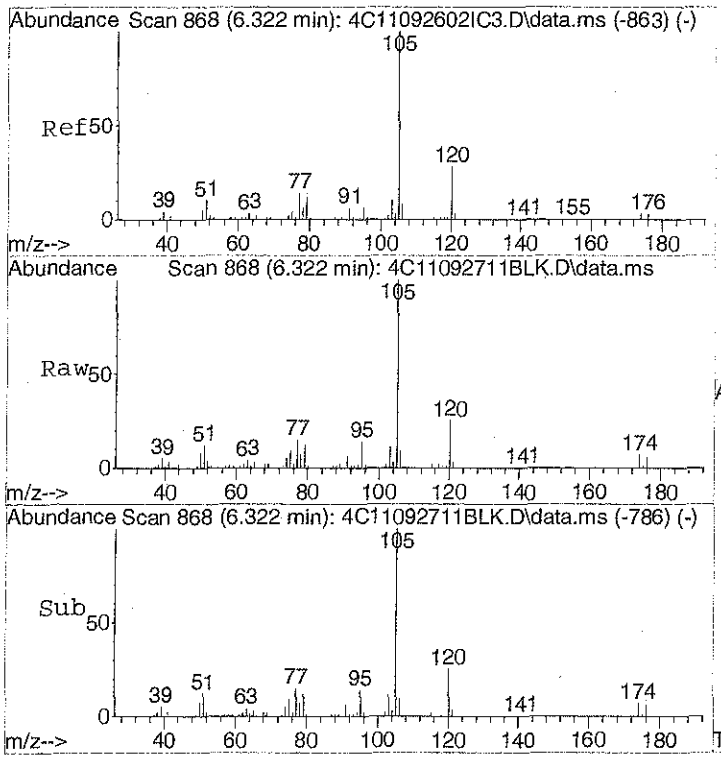


#35
Toluene
Concen: 2.32 ng
RT: 5.163 min Scan# 678
Delta R.T. 0.002 min
Lab File: 4C11092711BLK.D
Acq: 27 Sep 2011 17:13

Tgt Ion: 91 Resp: 99406

Ion	Ratio	Lower	Upper
91	100		
92	51.6	38.9	80.9

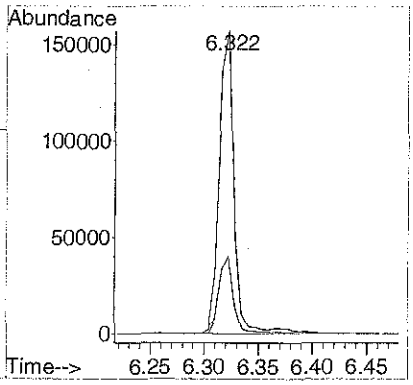




#51
Isopropylbenzene
Concen: 45.57 ng
RT: 6.323 min Scan# 868
Delta R.T. 0.003 min
Lab File: 4C11092711BLK.D
Acq: 27 Sep 2011 17:13

Tgt Ion:105 Resp: 1502689

Ion	Ratio	Lower	Upper
105	100		
120	24.2	16.7	34.7



Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092712.D
Acq On : 27 Sep 2011 17:36
Operator : CTANG
Sample : 1109008-09
Misc : 1109008-07 Oil 100x10x250
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 29 15:26:41 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

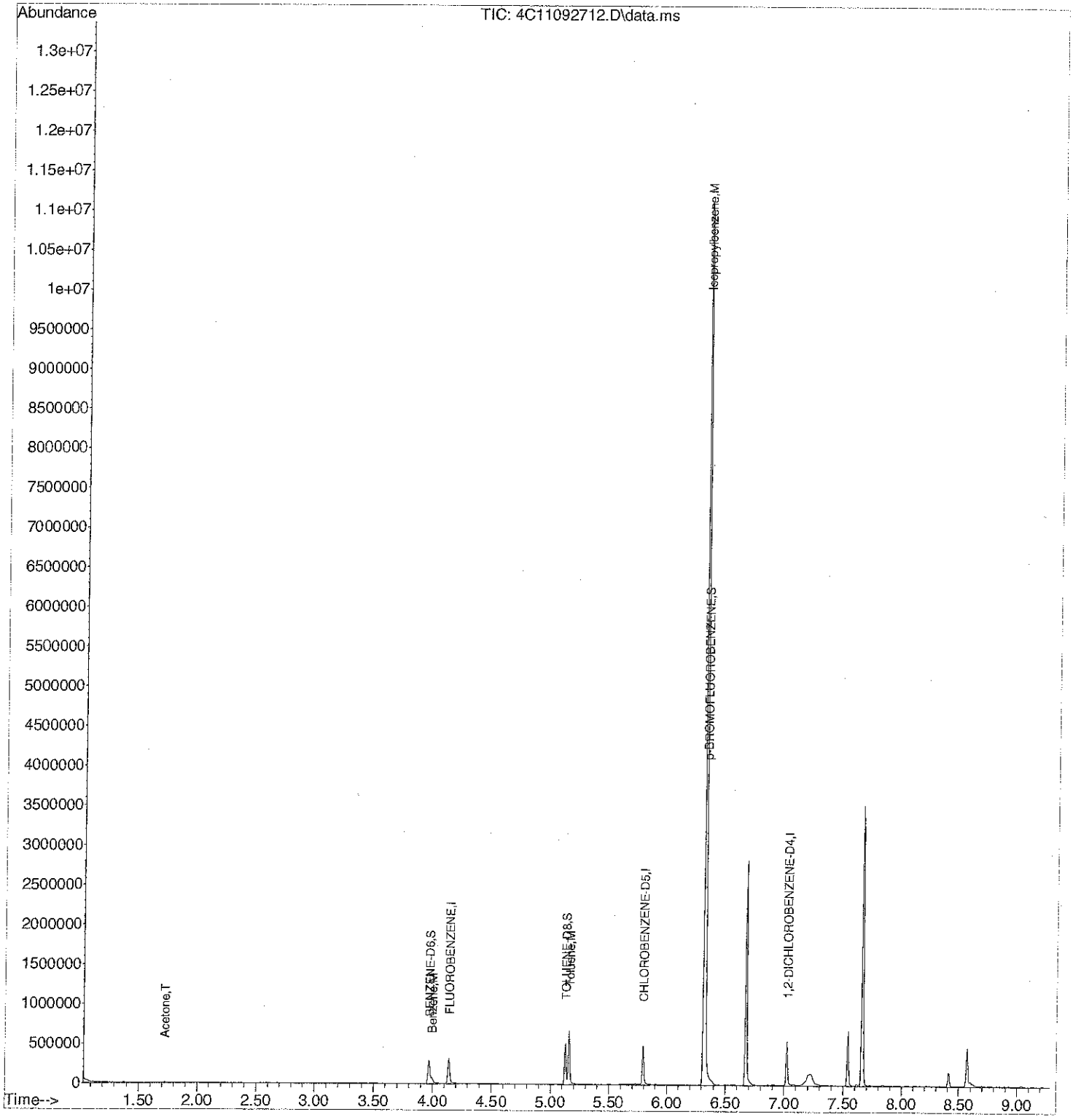
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) FLUOROBENZENE	4.141	96	1700803	50.00 ng	0.00
43) CHLOROBENZENE-D5	5.796	82	797031	50.00 ng	0.00
66) 1,2-DICHLOROBENZENE-D4	7.027	152	746433	50.00 ng	0.00
System Monitoring Compounds					
24) BENZENE-D6	3.971	84	1624080	37.12 ng	0.00
34) TOLUENE-D8	5.128	98	1692337	47.25 ng	0.00
52) p-BROMOFLUOROBENZENE	6.333	95	746710	61.80 ng	0.00
Target Compounds					Qvalue
10) Acetone	1.724	43	76654	20.80 ng	99
26) Benzene	3.998	78	308804	8.77 ng	90
35) Toluene	5.162	91	2547753	61.35 ng	100
51) Isopropylbenzene	6.322	105	44369904	1352.89 ng	100 ✓

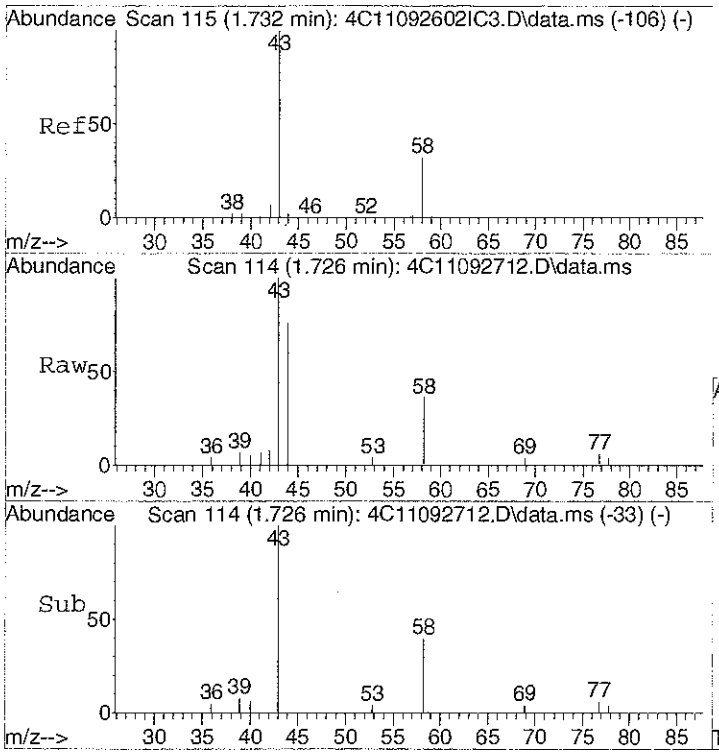
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : D:\Ctang\DATA\GCMS4 110927\
Data File : 4C11092712.D
Acq On : 27 Sep 2011 17:36
Operator : CTANG
Sample : 1109008-09
Misc : 1109008-07 Oil 100x10x250
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 29 15:26:41 2011
Quant Method : D:\CTANG\METHODS\GCMS4_110926.M
Quant Title :
QLast Update : Mon Sep 26 14:48:09 2011
Response via : Initial Calibration

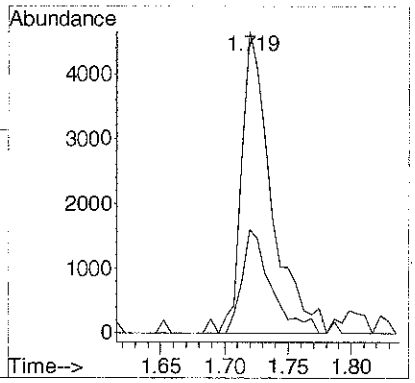


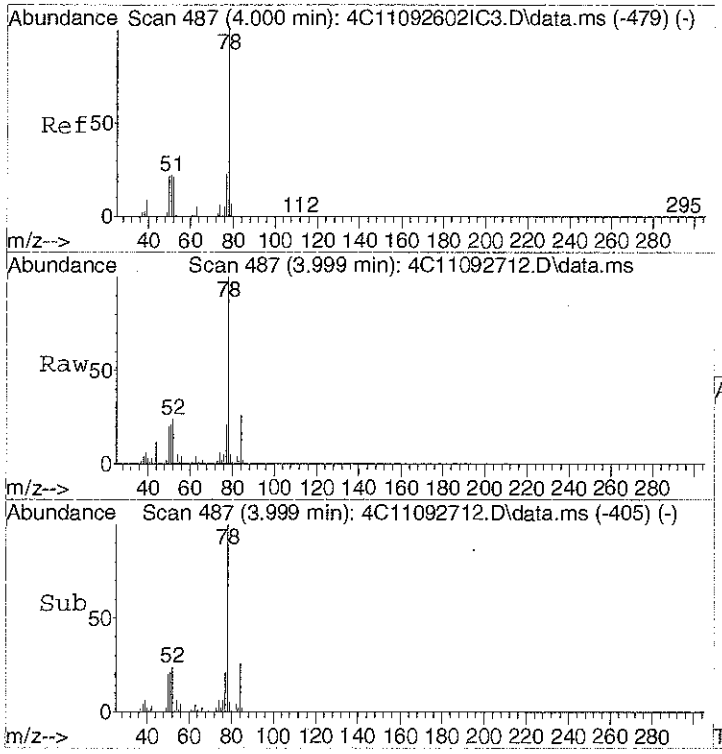


#10
Acetone
Concen: 20.80 ng
RT: 1.724 min Scan# 114
Delta R.T. -0.009 min
Lab File: 4C11092712.D
Acq: 27 Sep 2011 17:36

Tgt Ion: 43 Resp: 76654

Ion	Ratio	Lower	Upper
43	100		
58	33.7	21.6	44.8

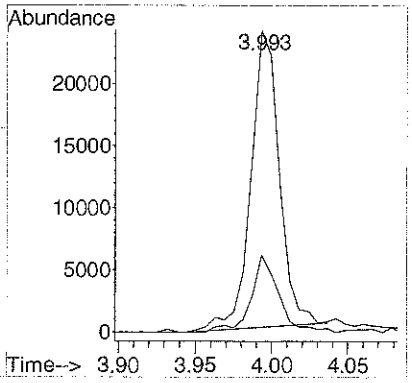


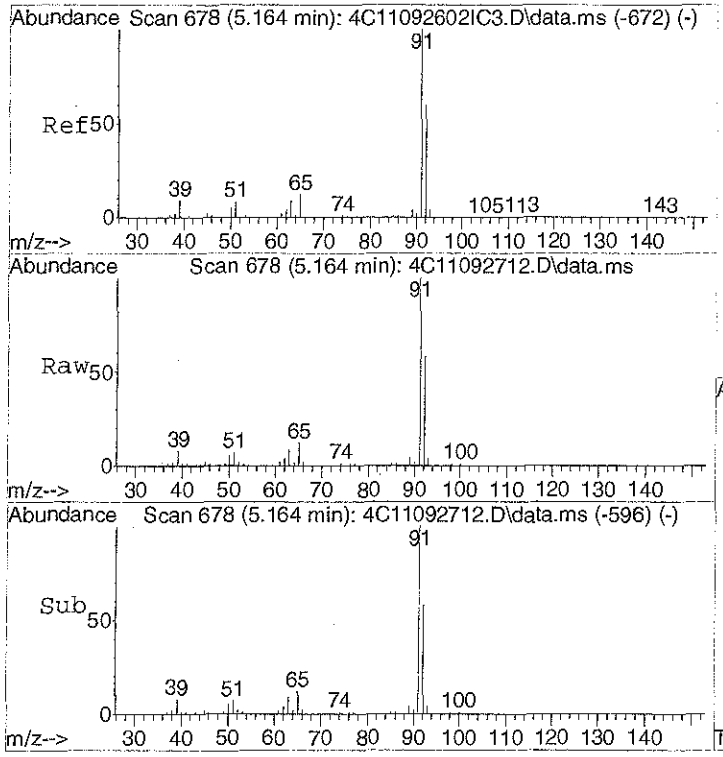


#26
Benzene
Concen: 8.77 ng
RT: 3.998 min Scan# 487
Delta R.T. -0.002 min
Lab File: 4C11092712.D
Acq: 27 Sep 2011 17:36

Tgt Ion: 78 Resp: 308804

Ion	Ratio	Lower	Upper
78	100		
77	25.2	13.5	27.9

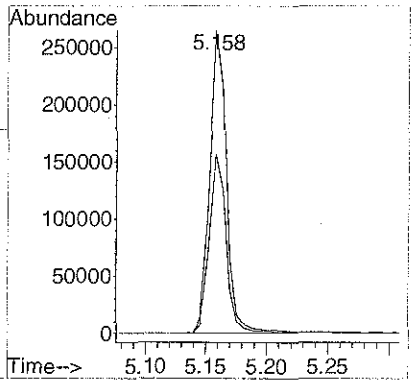


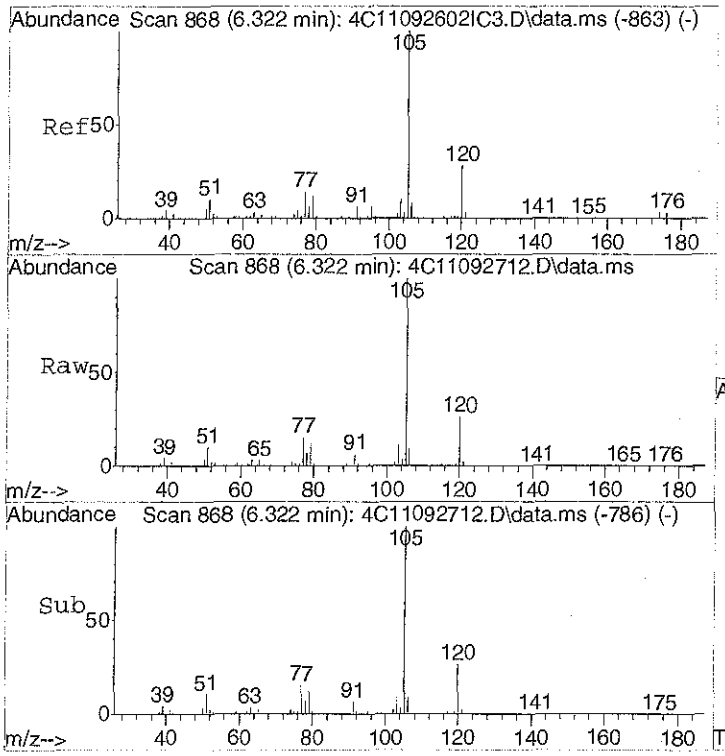


#35
Toluene
Concen: 61.35 ng
RT: 5.162 min Scan# 678
Delta R.T. 0.000 min
Lab File: 4C11092712.D
Acq: 27 Sep 2011 17:36

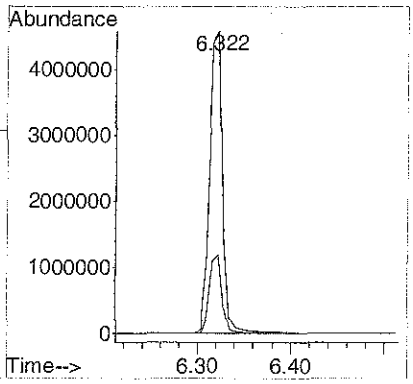
Tgt Ion: 91 Resp: 2547753

Ion	Ratio	Lower	Upper
91	100		
92	59.8	38.9	80.9





#51
Isopropylbenzene
Concen: 1352.89 ng
RT: 6.322 min Scan# 868
Delta R.T. 0.002 min
Lab File: 4C11092712.D
Acq: 27 Sep 2011 17:36

Tgt Ion:105 Resp:44369904

Ion	Ratio	Lower	Upper
105	100		
120	25.6	16.7	34.7