STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES AND
ENVIRONMENTAL CONTROL
DIVISION OF WATER RESOURCES
ENVIRONMENTAL LABORATORY SECTION
89 KINGS HIGHWAY
DOVER, DELAWARE 19901
PHONE: (302) 739-9942
FAX: (302) 739-3491

July 11, 2011

DAWM - Site Investigation & Remediation Branch
391 Lukens Drive
New Castle, DE 19720

Attention: Robert M. Schulte

Enclosed you will find the following Laboratory Results for the following samples received at our laboratory:

Project Name *Procino Plating*

Client Sample Description	ELS Sample Number	Date Sampled	Date Received	Test
DUP-1	1106041-008	6/16/2011	6/17/2011	SVOC - TCL Semivolatiles by GC/MS
DUP-1	1106041-008	6/16/2011	6/17/2011	VOC - TCLVolatiles by GC/MS
PPMW01	1106041-002	6/16/2011	6/17/2011	SVOC - TCL Semivolatiles by GC/MS
PPMW01	1106041-002	6/16/2011	6/17/2011	VOC - TCLVolatiles by GC/MS
PPMW02	1106041-003	6/16/2011	6/17/2011	SVOC - TCL Semivolatiles by GC/MS
PPMW02	1106041-003	6/16/2011	6/17/2011	VOC - TCLVolatiles by GC/MS
PPMW03	1106041-004	6/16/2011	6/17/2011	SVOC - TCL Semivolatiles by GC/MS
PPMW03	1106041-004	6/16/2011	6/17/2011	VOC - TCLVolatiles by GC/MS
PPMW04	1106041-005	6/16/2011	6/17/2011	SVOC - TCL Semivolatiles by GC/MS
PPMW04	1106041-005	6/16/2011	6/17/2011	VOC - TCLVolatiles by GC/MS
PPMW05	1106041-006	6/17/2011	6/17/2011	SVOC - TCL Semivolatiles by GC/MS
PPMW05	1106041-006	6/17/2011	6/17/2011	VOC - TCLVolatiles by GC/MS
PPMW06	1106041-007	6/17/2011	6/17/2011	SVOC - TCL Semivolatiles by GC/MS
PPMW06	1106041-007	6/17/2011	6/17/2011	VOC - TCLVolatiles by GC/MS
Trip Blank	1106041-001	4/25/2011	6/17/2011	VOC - TCLVolatiles by GC/MS

An Invoice for our services is also enclosed. If you have any questions regarding this data, please contact me at the above telephone number.

Sincerely,

Kathy A. Knowles
Laboratory Manager

PROJECT NARRATIVE
Procino Plating
Order Number 1106041
Matrix: Ground Water

1 Discussion of Exceptions / Quality Control Abnormalities

1.1 None

2 Dilutions

2.1 None

3 Method References

3.1 The laboratory followed analytical protocol from USEPA SW-846 Method 8260B, The State of Delaware Hazardous Substance Cleanup Act SOP Revision April 1996.

4 Method Deviations

4.1 None

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Trip Blank

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-001
Method: EPA 8260B
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	10	U	06/19/2011 13:07
74-87-3	Chloromethane	1	10	U	06/19/2011 13:07
75-01-4	Vinyl Chloride	1	10	U	06/19/2011 13:07
74-83-9	Bromomethane	1	10	U	06/19/2011 13:07
75-00-3	Chloroethane	1	10	U	06/19/2011 13:07
75-69-4	Trichlorofluoromethane	1	10	U	06/19/2011 13:07
75-35-4	1,1-Dichloroethene	1	10	U	06/19/2011 13:07
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	10	U	06/19/2011 13:07
67-64-1	Acetone	1	10	U	06/19/2011 13:07
75-15-0	Carbon Disulfide	1	10	U	06/19/2011 13:07
79-20-9	Methyl Acetate	1	10	U	06/19/2011 13:07
75-09-2	Methylene Chloride	1	10	U	06/19/2011 13:07
156-60-5	trans-1,2-Dichloroethene	1	10	U	06/19/2011 13:07
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	10	U	06/19/2011 13:07
75-34-3	1,1-Dichloroethane	1	10	U	06/19/2011 13:07
156-59-2	cis-1,2-Dichloroethene	1	10	U	06/19/2011 13:07
78-93-3	2-Butanone (MEK)	1	10	U	06/19/2011 13:07
67-66-3	Chloroform	1	10	U	06/19/2011 13:07
107-06-2	1,2-Dichloroethane (EDC)	1	10	U	06/19/2011 13:07
71-55-6	1,1,1-Trichloroethane	1	10	U	06/19/2011 13:07
110-82-7	Cyclohexane	1	10	U	06/19/2011 13:07
56-23-5	Carbon Tetrachloride	1	10	U	06/19/2011 13:07
71-43-2	Benzene	1	10	U	06/19/2011 13:07
79-01-6	Trichloroethene	1	10	U	06/19/2011 13:07
108-87-2	Methylcyclohexane	1	10	U	06/19/2011 13:07
78-87-5	1,2-Dichloropropane	1	10	U	06/19/2011 13:07
75-27-4	Bromodichloromethane	1	10	U	06/19/2011 13:07
10061-01-5	cis-1,3-Dichloropropene	1	10	U	06/19/2011 13:07
10061-02-6	trans-1,3-Dichloropropene	1	10	U	06/19/2011 13:07
79-00-5	1,1,2-Trichloroethane	1	10	U	06/19/2011 13:07
124-48-1	Dibromochloromethane	1	10	U	06/19/2011 13:07
75-25-2	Bromoform	1	10	U	06/19/2011 13:07
108-10-1	4-Methyl-2-pentanone (MIBK)	1	10	U	06/19/2011 13:07
108-88-3	Toluene	1	10	U	06/19/2011 13:07
127-18-4	Tetrachloroethene	1	10	U	06/19/2011 13:07
591-78-6	2-Hexanone	1	10	U	06/19/2011 13:07
106-93-4	1,2-Dibromoethane (EDB)	1	10	U	06/19/2011 13:07
108-90-7	Chlorobenzene	1	10	U	06/19/2011 13:07
100-41-4	Ethylbenzene	1	10	U	06/19/2011 13:07
XYLMP	m/p-Xylene	1	10	U	06/19/2011 13:07
95-47-6	o-Xylene	1	10	U	06/19/2011 13:07
XYLENES	Xylenes (Total)	1	10	U	06/19/2011 13:07
100-42-5	Styrene	1	10	U	06/19/2011 13:07
98-82-8	Isopropylbenzene (Cumene)	1	10	U	06/19/2011 13:07
79-34-5	1,1,2,2-Tetrachloroethane	1	10	U	06/19/2011 13:07
541-73-1	1,3-Dichlorobenzene	1	10	U	06/19/2011 13:07
106-46-7	1,4-Dichlorobenzene	1	10	U	06/19/2011 13:07
95-50-1	1,2-Dichlorobenzene	1	10	U	06/19/2011 13:07
96-12-8	1,2-Dibromo-3-chloropropane	1	10	U	06/19/2011 13:07
120-82-1	1,2,4-Trichlorobenzene	1	10	U	06/19/2011 13:07

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW01

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-002
Method: EPA 8260B
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	10	U	06/19/2011 15:32
74-87-3	Chloromethane	1	10	U	06/19/2011 15:32
75-01-4	Vinyl Chloride	1	10	U	06/19/2011 15:32
74-83-9	Bromomethane	1	10	U	06/19/2011 15:32
75-00-3	Chloroethane	1	10	U	06/19/2011 15:32
75-69-4	Trichlorofluoromethane	1	10	U	06/19/2011 15:32
75-35-4	1,1-Dichloroethene	1	10	U	06/19/2011 15:32
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	10	U	06/19/2011 15:32
67-64-1	Acetone	1	10	U	06/19/2011 15:32
75-15-0	Carbon Disulfide	1	10	U	06/19/2011 15:32
79-20-9	Methyl Acetate	1	10	U	06/19/2011 15:32
75-09-2	Methylene Chloride	1	10	U	06/19/2011 15:32
156-60-5	trans-1,2-Dichloroethene	1	10	U	06/19/2011 15:32
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	10	U	06/19/2011 15:32
75-34-3	1,1-Dichloroethane	1	10	U	06/19/2011 15:32
156-59-2	cis-1,2-Dichloroethene	1	10	U	06/19/2011 15:32
78-93-3	2-Butanone (MEK)	1	10	U	06/19/2011 15:32
67-66-3	Chloroform	1	10	U	06/19/2011 15:32
107-06-2	1,2-Dichloroethane (EDC)	1	10	U	06/19/2011 15:32
71-55-6	1,1,1-Trichloroethane	1	10	U	06/19/2011 15:32
110-82-7	Cyclohexane	1	10	U	06/19/2011 15:32
56-23-5	Carbon Tetrachloride	1	10	U	06/19/2011 15:32
71-43-2	Benzene	1	10	U	06/19/2011 15:32
79-01-6	Trichloroethene	1	10	U	06/19/2011 15:32
108-87-2	Methylcyclohexane	1	10	U	06/19/2011 15:32
78-87-5	1,2-Dichloropropane	1	10	U	06/19/2011 15:32
75-27-4	Bromodichloromethane	1	10	U	06/19/2011 15:32
10061-01-5	cis-1,3-Dichloropropene	1	10	U	06/19/2011 15:32
10061-02-6	trans-1,3-Dichloropropene	1	10	U	06/19/2011 15:32
79-00-5	1,1,2-Trichloroethane	1	10	U	06/19/2011 15:32
124-48-1	Dibromochloromethane	1	10	U	06/19/2011 15:32
75-25-2	Bromoform	1	10	U	06/19/2011 15:32
108-10-1	4-Methyl-2-pentanone (MIBK)	1	10	U	06/19/2011 15:32
108-88-3	Toluene	1	10	U	06/19/2011 15:32
127-18-4	Tetrachloroethene	1	10	U	06/19/2011 15:32
591-78-6	2-Hexanone	1	10	U	06/19/2011 15:32
106-93-4	1,2-Dibromoethane (EDB)	1	10	U	06/19/2011 15:32
108-90-7	Chlorobenzene	1	10	U	06/19/2011 15:32
100-41-4	Ethylbenzene	1	10	U	06/19/2011 15:32
XYLMP	m/p-Xylene	1	10	U	06/19/2011 15:32
95-47-6	o-Xylene	1	10	U	06/19/2011 15:32
XYLENES	Xylenes (Total)	1	10	U	06/19/2011 15:32
100-42-5	Styrene	1	10	U	06/19/2011 15:32
98-82-8	Isopropylbenzene (Cumene)	1	10	U	06/19/2011 15:32
79-34-5	1,1,2,2-Tetrachloroethane	1	10	U	06/19/2011 15:32
541-73-1	1,3-Dichlorobenzene	1	10	U	06/19/2011 15:32
106-46-7	1,4-Dichlorobenzene	1	10	U	06/19/2011 15:32
95-50-1	1,2-Dichlorobenzene	1	10	U	06/19/2011 15:32
96-12-8	1,2-Dibromo-3-chloropropane	1	10	U	06/19/2011 15:32
120-82-1	1,2,4-Trichlorobenzene	1	10	U	06/19/2011 15:32

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW02

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-003
Method: EPA 8260B
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	10	U	06/19/2011 16:01
74-87-3	Chloromethane	1	10	U	06/19/2011 16:01
75-01-4	Vinyl Chloride	1	10	U	06/19/2011 16:01
74-83-9	Bromomethane	1	10	U	06/19/2011 16:01
75-00-3	Chloroethane	1	10	U	06/19/2011 16:01
75-69-4	Trichlorofluoromethane	1	10	U	06/19/2011 16:01
75-35-4	1,1-Dichloroethene	1	10	U	06/19/2011 16:01
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	10	U	06/19/2011 16:01
67-64-1	Acetone	1	10	U	06/19/2011 16:01
75-15-0	Carbon Disulfide	1	10	U	06/19/2011 16:01
79-20-9	Methyl Acetate	1	10	U	06/19/2011 16:01
75-09-2	Methylene Chloride	1	10	U	06/19/2011 16:01
156-60-5	trans-1,2-Dichloroethene	1	10	U	06/19/2011 16:01
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	10	U	06/19/2011 16:01
75-34-3	1,1-Dichloroethane	1	10	U	06/19/2011 16:01
156-59-2	cis-1,2-Dichloroethene	1	10	U	06/19/2011 16:01
78-93-3	2-Butanone (MEK)	1	10	U	06/19/2011 16:01
67-66-3	Chloroform	1	10	U	06/19/2011 16:01
107-06-2	1,2-Dichloroethane (EDC)	1	10	U	06/19/2011 16:01
71-55-6	1,1,1-Trichloroethane	1	10	U	06/19/2011 16:01
110-82-7	Cyclohexane	1	10	U	06/19/2011 16:01
56-23-5	Carbon Tetrachloride	1	10	U	06/19/2011 16:01
71-43-2	Benzene	1	10	U	06/19/2011 16:01
79-01-6	Trichloroethene	1	10	U	06/19/2011 16:01
108-87-2	Methylcyclohexane	1	10	U	06/19/2011 16:01
78-87-5	1,2-Dichloropropane	1	10	U	06/19/2011 16:01
75-27-4	Bromodichloromethane	1	10	U	06/19/2011 16:01
10061-01-5	cis-1,3-Dichloropropene	1	10	U	06/19/2011 16:01
10061-02-6	trans-1,3-Dichloropropene	1	10	U	06/19/2011 16:01
79-00-5	1,1,2-Trichloroethane	1	10	U	06/19/2011 16:01
124-48-1	Dibromochloromethane	1	10	U	06/19/2011 16:01
75-25-2	Bromoform	1	10	U	06/19/2011 16:01
108-10-1	4-Methyl-2-pentanone (MIBK)	1	10	U	06/19/2011 16:01
108-88-3	Toluene	1	10	U	06/19/2011 16:01
127-18-4	Tetrachloroethene	1	10	U	06/19/2011 16:01
591-78-6	2-Hexanone	1	10	U	06/19/2011 16:01
106-93-4	1,2-Dibromoethane (EDB)	1	10	U	06/19/2011 16:01
108-90-7	Chlorobenzene	1	10	U	06/19/2011 16:01
100-41-4	Ethylbenzene	1	10	U	06/19/2011 16:01
XYLMP	m/p-Xylene	1	10	U	06/19/2011 16:01
95-47-6	o-Xylene	1	10	U	06/19/2011 16:01
XYLENES	Xylenes (Total)	1	10	U	06/19/2011 16:01
100-42-5	Styrene	1	10	U	06/19/2011 16:01
98-82-8	Isopropylbenzene (Cumene)	1	10	U	06/19/2011 16:01
79-34-5	1,1,2,2-Tetrachloroethane	1	10	U	06/19/2011 16:01
541-73-1	1,3-Dichlorobenzene	1	10	U	06/19/2011 16:01
106-46-7	1,4-Dichlorobenzene	1	10	U	06/19/2011 16:01
95-50-1	1,2-Dichlorobenzene	1	10	U	06/19/2011 16:01
96-12-8	1,2-Dibromo-3-chloropropane	1	10	U	06/19/2011 16:01
120-82-1	1,2,4-Trichlorobenzene	1	10	U	06/19/2011 16:01

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW03

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-004
Method: EPA 8260B
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	10	U	06/19/2011 14:05
74-87-3	Chloromethane	1	10	U	06/19/2011 14:05
75-01-4	Vinyl Chloride	1	10	U	06/19/2011 14:05
74-83-9	Bromomethane	1	10	U	06/19/2011 14:05
75-00-3	Chloroethane	1	10	U	06/19/2011 14:05
75-69-4	Trichlorofluoromethane	1	10	U	06/19/2011 14:05
75-35-4	1,1-Dichloroethene	1	10	U	06/19/2011 14:05
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	10	U	06/19/2011 14:05
67-64-1	Acetone	1	10	U	06/19/2011 14:05
75-15-0	Carbon Disulfide	1	10	U	06/19/2011 14:05
79-20-9	Methyl Acetate	1	10	U	06/19/2011 14:05
75-09-2	Methylene Chloride	1	10	U	06/19/2011 14:05
156-60-5	trans-1,2-Dichloroethene	1	10	U	06/19/2011 14:05
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	10	U	06/19/2011 14:05
75-34-3	1,1-Dichloroethane	1	10	U	06/19/2011 14:05
156-59-2	cis-1,2-Dichloroethene	1	10	U	06/19/2011 14:05
78-93-3	2-Butanone (MEK)	1	10	U	06/19/2011 14:05
67-66-3	Chloroform	1	10	U	06/19/2011 14:05
107-06-2	1,2-Dichloroethane (EDC)	1	10	U	06/19/2011 14:05
71-55-6	1,1,1-Trichloroethane	1	10	U	06/19/2011 14:05
110-82-7	Cyclohexane	1	10	U	06/19/2011 14:05
56-23-5	Carbon Tetrachloride	1	10	U	06/19/2011 14:05
71-43-2	Benzene	1	10	U	06/19/2011 14:05
79-01-6	Trichloroethene	1	10	U	06/19/2011 14:05
108-87-2	Methylcyclohexane	1	10	U	06/19/2011 14:05
78-87-5	1,2-Dichloropropane	1	10	U	06/19/2011 14:05
75-27-4	Bromodichloromethane	1	10	U	06/19/2011 14:05
10061-01-5	cis-1,3-Dichloropropene	1	10	U	06/19/2011 14:05
10061-02-6	trans-1,3-Dichloropropene	1	10	U	06/19/2011 14:05
79-00-5	1,1,2-Trichloroethane	1	10	U	06/19/2011 14:05
124-48-1	Dibromochloromethane	1	10	U	06/19/2011 14:05
75-25-2	Bromoform	1	10	U	06/19/2011 14:05
108-10-1	4-Methyl-2-pentanone (MIBK)	1	10	U	06/19/2011 14:05
108-88-3	Toluene	1	10	U	06/19/2011 14:05
127-18-4	Tetrachloroethene	1	10	U	06/19/2011 14:05
591-78-6	2-Hexanone	1	10	U	06/19/2011 14:05
106-93-4	1,2-Dibromoethane (EDB)	1	10	U	06/19/2011 14:05
108-90-7	Chlorobenzene	1	10	U	06/19/2011 14:05
100-41-4	Ethylbenzene	1	10	U	06/19/2011 14:05
XYLMP	m/p-Xylene	1	10	U	06/19/2011 14:05
95-47-6	o-Xylene	1	10	U	06/19/2011 14:05
XYLENES	Xylenes (Total)	1	10	U	06/19/2011 14:05
100-42-5	Styrene	1	10	U	06/19/2011 14:05
98-82-8	Isopropylbenzene (Cumene)	1	10	U	06/19/2011 14:05
79-34-5	1,1,2,2-Tetrachloroethane	1	10	U	06/19/2011 14:05
541-73-1	1,3-Dichlorobenzene	1	10	U	06/19/2011 14:05
106-46-7	1,4-Dichlorobenzene	1	10	U	06/19/2011 14:05
95-50-1	1,2-Dichlorobenzene	1	10	U	06/19/2011 14:05
96-12-8	1,2-Dibromo-3-chloropropane	1	10	U	06/19/2011 14:05
120-82-1	1,2,4-Trichlorobenzene	1	10	U	06/19/2011 14:05

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW03 MS

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-004A
Method: EPA 8260B
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	10	U	06/19/2011 14:34
74-87-3	Chloromethane	1	10	U	06/19/2011 14:34
75-01-4	Vinyl Chloride	1	10	U	06/19/2011 14:34
74-83-9	Bromomethane	1	10	U	06/19/2011 14:34
75-00-3	Chloroethane	1	10	U	06/19/2011 14:34
75-69-4	Trichlorofluoromethane	1	10	U	06/19/2011 14:34
75-35-4	1,1-Dichloroethene	1	60		06/19/2011 14:34
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	10	U	06/19/2011 14:34
67-64-1	Acetone	1	10	U	06/19/2011 14:34
75-15-0	Carbon Disulfide	1	10	U	06/19/2011 14:34
79-20-9	Methyl Acetate	1	10	U	06/19/2011 14:34
75-09-2	Methylene Chloride	1	10	U	06/19/2011 14:34
156-60-5	trans-1,2-Dichloroethene	1	10	U	06/19/2011 14:34
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	10	U	06/19/2011 14:34
75-34-3	1,1-Dichloroethane	1	10	U	06/19/2011 14:34
156-59-2	cis-1,2-Dichloroethene	1	10	U	06/19/2011 14:34
78-93-3	2-Butanone (MEK)	1	10	U	06/19/2011 14:34
67-66-3	Chloroform	1	10	U	06/19/2011 14:34
107-06-2	1,2-Dichloroethane (EDC)	1	10	U	06/19/2011 14:34
71-55-6	1,1,1-Trichloroethane	1	10	U	06/19/2011 14:34
110-82-7	Cyclohexane	1	10	U	06/19/2011 14:34
56-23-5	Carbon Tetrachloride	1	10	U	06/19/2011 14:34
71-43-2	Benzene	1	56		06/19/2011 14:34
79-01-6	Trichloroethene	1	57		06/19/2011 14:34
108-87-2	Methylcyclohexane	1	10	U	06/19/2011 14:34
78-87-5	1,2-Dichloropropane	1	10	U	06/19/2011 14:34
75-27-4	Bromodichloromethane	1	10	U	06/19/2011 14:34
10061-01-5	cis-1,3-Dichloropropene	1	10	U	06/19/2011 14:34
10061-02-6	trans-1,3-Dichloropropene	1	10	U	06/19/2011 14:34
79-00-5	1,1,2-Trichloroethane	1	10	U	06/19/2011 14:34
124-48-1	Dibromochloromethane	1	10	U	06/19/2011 14:34
75-25-2	Bromoform	1	10	U	06/19/2011 14:34
108-10-1	4-Methyl-2-pentanone (MIBK)	1	10	U	06/19/2011 14:34
108-88-3	Toluene	1	56		06/19/2011 14:34
127-18-4	Tetrachloroethene	1	10	U	06/19/2011 14:34
591-78-6	2-Hexanone	1	10	U	06/19/2011 14:34
106-93-4	1,2-Dibromoethane (EDB)	1	10	U	06/19/2011 14:34
108-90-7	Chlorobenzene	1	56		06/19/2011 14:34
100-41-4	Ethylbenzene	1	10	U	06/19/2011 14:34
XYLMP	m/p-Xylene	1	10	U	06/19/2011 14:34
95-47-6	o-Xylene	1	10	U	06/19/2011 14:34
XYLENES	Xylenes (Total)	1	10	U	06/19/2011 14:34
100-42-5	Styrene	1	10	U	06/19/2011 14:34
98-82-8	Isopropylbenzene (Cumene)	1	10	U	06/19/2011 14:34
79-34-5	1,1,2,2-Tetrachloroethane	1	10	U	06/19/2011 14:34
541-73-1	1,3-Dichlorobenzene	1	10	U	06/19/2011 14:34
106-46-7	1,4-Dichlorobenzene	1	10	U	06/19/2011 14:34
95-50-1	1,2-Dichlorobenzene	1	10	U	06/19/2011 14:34
96-12-8	1,2-Dibromo-3-chloropropane	1	10	U	06/19/2011 14:34
120-82-1	1,2,4-Trichlorobenzene	1	10	U	06/19/2011 14:34

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW03 MSD

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-004B
Method: EPA 8260B
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	10	U	06/19/2011 15:03
74-87-3	Chloromethane	1	10	U	06/19/2011 15:03
75-01-4	Vinyl Chloride	1	10	U	06/19/2011 15:03
74-83-9	Bromomethane	1	10	U	06/19/2011 15:03
75-00-3	Chloroethane	1	10	U	06/19/2011 15:03
75-69-4	Trichlorofluoromethane	1	10	U	06/19/2011 15:03
75-35-4	1,1-Dichloroethene	1	64		06/19/2011 15:03
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	10	U	06/19/2011 15:03
67-64-1	Acetone	1	10	U	06/19/2011 15:03
75-15-0	Carbon Disulfide	1	10	U	06/19/2011 15:03
79-20-9	Methyl Acetate	1	10	U	06/19/2011 15:03
75-09-2	Methylene Chloride	1	10	U	06/19/2011 15:03
156-60-5	trans-1,2-Dichloroethene	1	10	U	06/19/2011 15:03
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	10	U	06/19/2011 15:03
75-34-3	1,1-Dichloroethane	1	10	U	06/19/2011 15:03
156-59-2	cis-1,2-Dichloroethene	1	10	U	06/19/2011 15:03
78-93-3	2-Butanone (MEK)	1	10	U	06/19/2011 15:03
67-66-3	Chloroform	1	10	U	06/19/2011 15:03
107-06-2	1,2-Dichloroethane (EDC)	1	10	U	06/19/2011 15:03
71-55-6	1,1,1-Trichloroethane	1	10	U	06/19/2011 15:03
110-82-7	Cyclohexane	1	10	U	06/19/2011 15:03
56-23-5	Carbon Tetrachloride	1	10	U	06/19/2011 15:03
71-43-2	Benzene	1	58		06/19/2011 15:03
79-01-6	Trichloroethene	1	59		06/19/2011 15:03
108-87-2	Methylcyclohexane	1	10	U	06/19/2011 15:03
78-87-5	1,2-Dichloropropane	1	10	U	06/19/2011 15:03
75-27-4	Bromodichloromethane	1	10	U	06/19/2011 15:03
10061-01-5	cis-1,3-Dichloropropene	1	10	U	06/19/2011 15:03
10061-02-6	trans-1,3-Dichloropropene	1	10	U	06/19/2011 15:03
79-00-5	1,1,2-Trichloroethane	1	10	U	06/19/2011 15:03
124-48-1	Dibromochloromethane	1	10	U	06/19/2011 15:03
75-25-2	Bromoform	1	10	U	06/19/2011 15:03
108-10-1	4-Methyl-2-pentanone (MIBK)	1	10	U	06/19/2011 15:03
108-88-3	Toluene	1	59		06/19/2011 15:03
127-18-4	Tetrachloroethene	1	10	U	06/19/2011 15:03
591-78-6	2-Hexanone	1	10	U	06/19/2011 15:03
106-93-4	1,2-Dibromoethane (EDB)	1	10	U	06/19/2011 15:03
108-90-7	Chlorobenzene	1	59		06/19/2011 15:03
100-41-4	Ethylbenzene	1	10	U	06/19/2011 15:03
XYLMP	m/p-Xylene	1	10	U	06/19/2011 15:03
95-47-6	o-Xylene	1	10	U	06/19/2011 15:03
XYLENES	Xylenes (Total)	1	10	U	06/19/2011 15:03
100-42-5	Styrene	1	10	U	06/19/2011 15:03
98-82-8	Isopropylbenzene (Cumene)	1	10	U	06/19/2011 15:03
79-34-5	1,1,2,2-Tetrachloroethane	1	10	U	06/19/2011 15:03
541-73-1	1,3-Dichlorobenzene	1	10	U	06/19/2011 15:03
106-46-7	1,4-Dichlorobenzene	1	10	U	06/19/2011 15:03
95-50-1	1,2-Dichlorobenzene	1	10	U	06/19/2011 15:03
96-12-8	1,2-Dibromo-3-chloropropane	1	10	U	06/19/2011 15:03
120-82-1	1,2,4-Trichlorobenzene	1	10	U	06/19/2011 15:03

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW04

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-005
Method: EPA 8260B
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	10	U	06/19/2011 16:30
74-87-3	Chloromethane	1	10	U	06/19/2011 16:30
75-01-4	Vinyl Chloride	1	10	U	06/19/2011 16:30
74-83-9	Bromomethane	1	10	U	06/19/2011 16:30
75-00-3	Chloroethane	1	10	U	06/19/2011 16:30
75-69-4	Trichlorofluoromethane	1	10	U	06/19/2011 16:30
75-35-4	1,1-Dichloroethene	1	10	U	06/19/2011 16:30
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	10	U	06/19/2011 16:30
67-64-1	Acetone	1	10	U	06/19/2011 16:30
75-15-0	Carbon Disulfide	1	10	U	06/19/2011 16:30
79-20-9	Methyl Acetate	1	10	U	06/19/2011 16:30
75-09-2	Methylene Chloride	1	10	U	06/19/2011 16:30
156-60-5	trans-1,2-Dichloroethene	1	10	U	06/19/2011 16:30
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	10	U	06/19/2011 16:30
75-34-3	1,1-Dichloroethane	1	10	U	06/19/2011 16:30
156-59-2	cis-1,2-Dichloroethene	1	10	U	06/19/2011 16:30
78-93-3	2-Butanone (MEK)	1	10	U	06/19/2011 16:30
67-66-3	Chloroform	1	10	U	06/19/2011 16:30
107-06-2	1,2-Dichloroethane (EDC)	1	10	U	06/19/2011 16:30
71-55-6	1,1,1-Trichloroethane	1	10	U	06/19/2011 16:30
110-82-7	Cyclohexane	1	10	U	06/19/2011 16:30
56-23-5	Carbon Tetrachloride	1	10	U	06/19/2011 16:30
71-43-2	Benzene	1	10	U	06/19/2011 16:30
79-01-6	Trichloroethene	1	10	U	06/19/2011 16:30
108-87-2	Methylcyclohexane	1	10	U	06/19/2011 16:30
78-87-5	1,2-Dichloropropane	1	10	U	06/19/2011 16:30
75-27-4	Bromodichloromethane	1	10	U	06/19/2011 16:30
10061-01-5	cis-1,3-Dichloropropene	1	10	U	06/19/2011 16:30
10061-02-6	trans-1,3-Dichloropropene	1	10	U	06/19/2011 16:30
79-00-5	1,1,2-Trichloroethane	1	10	U	06/19/2011 16:30
124-48-1	Dibromochloromethane	1	10	U	06/19/2011 16:30
75-25-2	Bromoform	1	10	U	06/19/2011 16:30
108-10-1	4-Methyl-2-pentanone (MIBK)	1	10	U	06/19/2011 16:30
108-88-3	Toluene	1	10	U	06/19/2011 16:30
127-18-4	Tetrachloroethene	1	10	U	06/19/2011 16:30
591-78-6	2-Hexanone	1	10	U	06/19/2011 16:30
106-93-4	1,2-Dibromoethane (EDB)	1	10	U	06/19/2011 16:30
108-90-7	Chlorobenzene	1	10	U	06/19/2011 16:30
100-41-4	Ethylbenzene	1	10	U	06/19/2011 16:30
XYLMP	m/p-Xylene	1	10	U	06/19/2011 16:30
95-47-6	o-Xylene	1	10	U	06/19/2011 16:30
XYLENES	Xylenes (Total)	1	10	U	06/19/2011 16:30
100-42-5	Styrene	1	10	U	06/19/2011 16:30
98-82-8	Isopropylbenzene (Cumene)	1	0.4	J	06/19/2011 16:30
79-34-5	1,1,2,2-Tetrachloroethane	1	10	U	06/19/2011 16:30
541-73-1	1,3-Dichlorobenzene	1	10	U	06/19/2011 16:30
106-46-7	1,4-Dichlorobenzene	1	10	U	06/19/2011 16:30
95-50-1	1,2-Dichlorobenzene	1	10	U	06/19/2011 16:30
96-12-8	1,2-Dibromo-3-chloropropane	1	10	U	06/19/2011 16:30
120-82-1	1,2,4-Trichlorobenzene	1	10	U	06/19/2011 16:30

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PPMW04

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-005
Method: EPA 8260B
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	RT	Dilution Factor	Concentration	Qualifier	Analysis Time
	Unknown Aromatic	12.53	1	5.2	J	06/21/2011 16:30

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW05

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-006
Method: EPA 8260B
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	10	U	06/19/2011 16:58
74-87-3	Chloromethane	1	10	U	06/19/2011 16:58
75-01-4	Vinyl Chloride	1	10	U	06/19/2011 16:58
74-83-9	Bromomethane	1	10	U	06/19/2011 16:58
75-00-3	Chloroethane	1	10	U	06/19/2011 16:58
75-69-4	Trichlorofluoromethane	1	10	U	06/19/2011 16:58
75-35-4	1,1-Dichloroethene	1	10	U	06/19/2011 16:58
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	10	U	06/19/2011 16:58
67-64-1	Acetone	1	10	U	06/19/2011 16:58
75-15-0	Carbon Disulfide	1	10	U	06/19/2011 16:58
79-20-9	Methyl Acetate	1	10	U	06/19/2011 16:58
75-09-2	Methylene Chloride	1	10	U	06/19/2011 16:58
156-60-5	trans-1,2-Dichloroethene	1	10	U	06/19/2011 16:58
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	10	U	06/19/2011 16:58
75-34-3	1,1-Dichloroethane	1	10	U	06/19/2011 16:58
156-59-2	cis-1,2-Dichloroethene	1	10	U	06/19/2011 16:58
78-93-3	2-Butanone (MEK)	1	10	U	06/19/2011 16:58
67-66-3	Chloroform	1	10	U	06/19/2011 16:58
107-06-2	1,2-Dichloroethane (EDC)	1	10	U	06/19/2011 16:58
71-55-6	1,1,1-Trichloroethane	1	10	U	06/19/2011 16:58
110-82-7	Cyclohexane	1	10	U	06/19/2011 16:58
56-23-5	Carbon Tetrachloride	1	10	U	06/19/2011 16:58
71-43-2	Benzene	1	10	U	06/19/2011 16:58
79-01-6	Trichloroethene	1	10	U	06/19/2011 16:58
108-87-2	Methylcyclohexane	1	10	U	06/19/2011 16:58
78-87-5	1,2-Dichloropropane	1	10	U	06/19/2011 16:58
75-27-4	Bromodichloromethane	1	10	U	06/19/2011 16:58
10061-01-5	cis-1,3-Dichloropropene	1	10	U	06/19/2011 16:58
10061-02-6	trans-1,3-Dichloropropene	1	10	U	06/19/2011 16:58
79-00-5	1,1,2-Trichloroethane	1	10	U	06/19/2011 16:58
124-48-1	Dibromochloromethane	1	10	U	06/19/2011 16:58
75-25-2	Bromoform	1	10	U	06/19/2011 16:58
108-10-1	4-Methyl-2-pentanone (MIBK)	1	10	U	06/19/2011 16:58
108-88-3	Toluene	1	10	U	06/19/2011 16:58
127-18-4	Tetrachloroethene	1	10	U	06/19/2011 16:58
591-78-6	2-Hexanone	1	10	U	06/19/2011 16:58
106-93-4	1,2-Dibromoethane (EDB)	1	10	U	06/19/2011 16:58
108-90-7	Chlorobenzene	1	10	U	06/19/2011 16:58
100-41-4	Ethylbenzene	1	0.4	J	06/19/2011 16:58
XYLMP	m/p-Xylene	1	10	U	06/19/2011 16:58
95-47-6	o-Xylene	1	10	U	06/19/2011 16:58
XYLENES	Xylenes (Total)	1	10	U	06/19/2011 16:58
100-42-5	Styrene	1	10	U	06/19/2011 16:58
98-82-8	Isopropylbenzene (Cumene)	1	10	U	06/19/2011 16:58
79-34-5	1,1,2,2-Tetrachloroethane	1	10	U	06/19/2011 16:58
541-73-1	1,3-Dichlorobenzene	1	10	U	06/19/2011 16:58
106-46-7	1,4-Dichlorobenzene	1	10	U	06/19/2011 16:58
95-50-1	1,2-Dichlorobenzene	1	10	U	06/19/2011 16:58
96-12-8	1,2-Dibromo-3-chloropropane	1	10	U	06/19/2011 16:58
120-82-1	1,2,4-Trichlorobenzene	1	10	U	06/19/2011 16:58

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW06

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-007
Method: EPA 8260B
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	10	U	06/19/2011 17:27
74-87-3	Chloromethane	1	10	U	06/19/2011 17:27
75-01-4	Vinyl Chloride	1	10	U	06/19/2011 17:27
74-83-9	Bromomethane	1	10	U	06/19/2011 17:27
75-00-3	Chloroethane	1	10	U	06/19/2011 17:27
75-69-4	Trichlorofluoromethane	1	10	U	06/19/2011 17:27
75-35-4	1,1-Dichloroethene	1	10	U	06/19/2011 17:27
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	10	U	06/19/2011 17:27
67-64-1	Acetone	1	10	U	06/19/2011 17:27
75-15-0	Carbon Disulfide	1	10	U	06/19/2011 17:27
79-20-9	Methyl Acetate	1	10	U	06/19/2011 17:27
75-09-2	Methylene Chloride	1	10	U	06/19/2011 17:27
156-60-5	trans-1,2-Dichloroethene	1	10	U	06/19/2011 17:27
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	10	U	06/19/2011 17:27
75-34-3	1,1-Dichloroethane	1	10	U	06/19/2011 17:27
156-59-2	cis-1,2-Dichloroethene	1	10	U	06/19/2011 17:27
78-93-3	2-Butanone (MEK)	1	10	U	06/19/2011 17:27
67-66-3	Chloroform	1	0.9	J	06/19/2011 17:27
107-06-2	1,2-Dichloroethane (EDC)	1	10	U	06/19/2011 17:27
71-55-6	1,1,1-Trichloroethane	1	10	U	06/19/2011 17:27
110-82-7	Cyclohexane	1	10	U	06/19/2011 17:27
56-23-5	Carbon Tetrachloride	1	10	U	06/19/2011 17:27
71-43-2	Benzene	1	10	U	06/19/2011 17:27
79-01-6	Trichloroethene	1	10	U	06/19/2011 17:27
108-87-2	Methylcyclohexane	1	10	U	06/19/2011 17:27
78-87-5	1,2-Dichloropropane	1	10	U	06/19/2011 17:27
75-27-4	Bromodichloromethane	1	10	U	06/19/2011 17:27
10061-01-5	cis-1,3-Dichloropropene	1	10	U	06/19/2011 17:27
10061-02-6	trans-1,3-Dichloropropene	1	10	U	06/19/2011 17:27
79-00-5	1,1,2-Trichloroethane	1	10	U	06/19/2011 17:27
124-48-1	Dibromochloromethane	1	10	U	06/19/2011 17:27
75-25-2	Bromoform	1	10	U	06/19/2011 17:27
108-10-1	4-Methyl-2-pentanone (MIBK)	1	10	U	06/19/2011 17:27
108-88-3	Toluene	1	10	U	06/19/2011 17:27
127-18-4	Tetrachloroethene	1	10	U	06/19/2011 17:27
591-78-6	2-Hexanone	1	10	U	06/19/2011 17:27
106-93-4	1,2-Dibromoethane (EDB)	1	10	U	06/19/2011 17:27
108-90-7	Chlorobenzene	1	10	U	06/19/2011 17:27
100-41-4	Ethylbenzene	1	10	U	06/19/2011 17:27
XYLMP	m/p-Xylene	1	10	U	06/19/2011 17:27
95-47-6	o-Xylene	1	10	U	06/19/2011 17:27
XYLENES	Xylenes (Total)	1	10	U	06/19/2011 17:27
100-42-5	Styrene	1	10	U	06/19/2011 17:27
98-82-8	Isopropylbenzene (Cumene)	1	10	U	06/19/2011 17:27
79-34-5	1,1,2,2-Tetrachloroethane	1	10	U	06/19/2011 17:27
541-73-1	1,3-Dichlorobenzene	1	10	U	06/19/2011 17:27
106-46-7	1,4-Dichlorobenzene	1	10	U	06/19/2011 17:27
95-50-1	1,2-Dichlorobenzene	1	10	U	06/19/2011 17:27
96-12-8	1,2-Dibromo-3-chloropropane	1	10	U	06/19/2011 17:27
120-82-1	1,2,4-Trichlorobenzene	1	10	U	06/19/2011 17:27

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-1

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-008
Method: EPA 8260B
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	10	U	06/19/2011 17:56
74-87-3	Chloromethane	1	10	U	06/19/2011 17:56
75-01-4	Vinyl Chloride	1	10	U	06/19/2011 17:56
74-83-9	Bromomethane	1	10	U	06/19/2011 17:56
75-00-3	Chloroethane	1	10	U	06/19/2011 17:56
75-69-4	Trichlorofluoromethane	1	10	U	06/19/2011 17:56
75-35-4	1,1-Dichloroethene	1	10	U	06/19/2011 17:56
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	10	U	06/19/2011 17:56
67-64-1	Acetone	1	10	U	06/19/2011 17:56
75-15-0	Carbon Disulfide	1	10	U	06/19/2011 17:56
79-20-9	Methyl Acetate	1	10	U	06/19/2011 17:56
75-09-2	Methylene Chloride	1	10	U	06/19/2011 17:56
156-60-5	trans-1,2-Dichloroethene	1	10	U	06/19/2011 17:56
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	10	U	06/19/2011 17:56
75-34-3	1,1-Dichloroethane	1	10	U	06/19/2011 17:56
156-59-2	cis-1,2-Dichloroethene	1	10	U	06/19/2011 17:56
78-93-3	2-Butanone (MEK)	1	10	U	06/19/2011 17:56
67-66-3	Chloroform	1	10	U	06/19/2011 17:56
107-06-2	1,2-Dichloroethane (EDC)	1	10	U	06/19/2011 17:56
71-55-6	1,1,1-Trichloroethane	1	10	U	06/19/2011 17:56
110-82-7	Cyclohexane	1	10	U	06/19/2011 17:56
56-23-5	Carbon Tetrachloride	1	10	U	06/19/2011 17:56
71-43-2	Benzene	1	10	U	06/19/2011 17:56
79-01-6	Trichloroethene	1	10	U	06/19/2011 17:56
108-87-2	Methylcyclohexane	1	10	U	06/19/2011 17:56
78-87-5	1,2-Dichloropropane	1	10	U	06/19/2011 17:56
75-27-4	Bromodichloromethane	1	10	U	06/19/2011 17:56
10061-01-5	cis-1,3-Dichloropropene	1	10	U	06/19/2011 17:56
10061-02-6	trans-1,3-Dichloropropene	1	10	U	06/19/2011 17:56
79-00-5	1,1,2-Trichloroethane	1	10	U	06/19/2011 17:56
124-48-1	Dibromochloromethane	1	10	U	06/19/2011 17:56
75-25-2	Bromoform	1	10	U	06/19/2011 17:56
108-10-1	4-Methyl-2-pentanone (MIBK)	1	10	U	06/19/2011 17:56
108-88-3	Toluene	1	10	U	06/19/2011 17:56
127-18-4	Tetrachloroethene	1	10	U	06/19/2011 17:56
591-78-6	2-Hexanone	1	10	U	06/19/2011 17:56
106-93-4	1,2-Dibromoethane (EDB)	1	10	U	06/19/2011 17:56
108-90-7	Chlorobenzene	1	10	U	06/19/2011 17:56
100-41-4	Ethylbenzene	1	10	U	06/19/2011 17:56
XYLMP	m/p-Xylene	1	10	U	06/19/2011 17:56
95-47-6	o-Xylene	1	10	U	06/19/2011 17:56
XYLENES	Xylenes (Total)	1	10	U	06/19/2011 17:56
100-42-5	Styrene	1	10	U	06/19/2011 17:56
98-82-8	Isopropylbenzene (Cumene)	1	10	U	06/19/2011 17:56
79-34-5	1,1,2,2-Tetrachloroethane	1	10	U	06/19/2011 17:56
541-73-1	1,3-Dichlorobenzene	1	10	U	06/19/2011 17:56
106-46-7	1,4-Dichlorobenzene	1	10	U	06/19/2011 17:56
95-50-1	1,2-Dichlorobenzene	1	10	U	06/19/2011 17:56
96-12-8	1,2-Dibromo-3-chloropropane	1	10	U	06/19/2011 17:56
120-82-1	1,2,4-Trichlorobenzene	1	10	U	06/19/2011 17:56

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Method Blank

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: VOA-1106041
Matrix: Ground Water
Lab Sample ID: Method Blank
Method: EPA 8260B
Date/Time Received:
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
75-71-8	Dichlorodifluoromethane	1	10	U	06/21/2011 12:38
74-87-3	Chloromethane	1	10	U	06/21/2011 12:38
75-01-4	Vinyl Chloride	1	10	U	06/21/2011 12:38
74-83-9	Bromomethane	1	10	U	06/21/2011 12:38
75-00-3	Chloroethane	1	10	U	06/21/2011 12:38
75-69-4	Trichlorofluoromethane	1	10	U	06/21/2011 12:38
75-35-4	1,1-Dichloroethene	1	10	U	06/21/2011 12:38
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroetha	1	10	U	06/21/2011 12:38
67-64-1	Acetone	1	10	U	06/21/2011 12:38
75-15-0	Carbon Disulfide	1	10	U	06/21/2011 12:38
79-20-9	Methyl Acetate	1	10	U	06/21/2011 12:38
75-09-2	Methylene Chloride	1	10	U	06/21/2011 12:38
156-60-5	trans-1,2-Dichloroethene	1	10	U	06/21/2011 12:38
1634-04-4	Methyl tert-Butyl Ether (MtBE)	1	10	U	06/21/2011 12:38
75-34-3	1,1-Dichloroethane	1	10	U	06/21/2011 12:38
156-59-2	cis-1,2-Dichloroethene	1	10	U	06/21/2011 12:38
78-93-3	2-Butanone (MEK)	1	10	U	06/21/2011 12:38
67-66-3	Chloroform	1	10	U	06/21/2011 12:38
107-06-2	1,2-Dichloroethane (EDC)	1	10	U	06/21/2011 12:38
71-55-6	1,1,1-Trichloroethane	1	10	U	06/21/2011 12:38
110-82-7	Cyclohexane	1	10	U	06/21/2011 12:38
56-23-5	Carbon Tetrachloride	1	10	U	06/21/2011 12:38
71-43-2	Benzene	1	10	U	06/21/2011 12:38
79-01-6	Trichloroethene	1	10	U	06/21/2011 12:38
108-87-2	Methylcyclohexane	1	10	U	06/21/2011 12:38
78-87-5	1,2-Dichloropropane	1	10	U	06/21/2011 12:38
75-27-4	Bromodichloromethane	1	10	U	06/21/2011 12:38
10061-01-5	cis-1,3-Dichloropropene	1	10	U	06/21/2011 12:38
10061-02-6	trans-1,3-Dichloropropene	1	10	U	06/21/2011 12:38
79-00-5	1,1,2-Trichloroethane	1	10	U	06/21/2011 12:38
124-48-1	Dibromochloromethane	1	10	U	06/21/2011 12:38
75-25-2	Bromoform	1	10	U	06/21/2011 12:38
108-10-1	4-Methyl-2-pentanone (MIBK)	1	10	U	06/21/2011 12:38
108-88-3	Toluene	1	10	U	06/21/2011 12:38
127-18-4	Tetrachloroethene	1	10	U	06/21/2011 12:38
591-78-6	2-Hexanone	1	10	U	06/21/2011 12:38
106-93-4	1,2-Dibromoethane (EDB)	1	10	U	06/21/2011 12:38
108-90-7	Chlorobenzene	1	10	U	06/21/2011 12:38
100-41-4	Ethylbenzene	1	10	U	06/21/2011 12:38
XYLMP	m/p-Xylene	1	10	U	06/21/2011 12:38
95-47-6	o-Xylene	1	10	U	06/21/2011 12:38
XYLENES	Xylenes (Total)	1	10	U	06/21/2011 12:38
100-42-5	Styrene	1	10	U	06/21/2011 12:38
98-82-8	Isopropylbenzene (Cumene)	1	10	U	06/21/2011 12:38
79-34-5	1,1,2,2-Tetrachloroethane	1	10	U	06/21/2011 12:38
541-73-1	1,3-Dichlorobenzene	1	10	U	06/21/2011 12:38
106-46-7	1,4-Dichlorobenzene	1	10	U	06/21/2011 12:38
95-50-1	1,2-Dichlorobenzene	1	10	U	06/21/2011 12:38
96-12-8	1,2-Dibromo-3-chloropropane	1	10	U	06/21/2011 12:38
120-82-1	1,2,4-Trichlorobenzene	1	10	U	06/21/2011 12:38

SYSTEM MONITORING COMPOUND REPORT

Lab Name: DNREC Environmental Laboratory Section **Lab Order ID:** 1106041

Test Group Volatiles **QCBatchID:** VOA-1106041

Matrix Type: Water

ELS Sample Number	QC Number	SMC1	SMC2	SMC3						Total Out
1106041-001		101	99	94						0
1106041-002		104	98	95						0
1106041-003		101	98	93						0
1106041-004		100	98	93						0
1106041-005		102	99	96						0
1106041-006		101	99	95						0
1106041-007		103	99	96						0
1106041-008		102	98	92						0
LCS-W	1	101	98	94						0
Method Blank	1	101	99	94						0
MSD-W	1	103	98	95						0
MS-W	1	102	99	94						0

		QC Limits
SMC1	1,2-Dichloroethane-d4	76-114
SMC2	Toluene-d8	88-110
SMC3	4-Bromofluorobenzene	86-115

MATRIX SPIKE / MATRIX SPIKE DUPLICATE / DUPLICATE RECOVERY

Lab Name: DNREC Environmental Laboratory Section **Lab Order ID:** 1106041

Test Group VOA **QCBatchID:** VOA-1106041

Matrix Spike - Sample No.: 1106041-004 **Matrix Type:** Liquid

Matrix Spike							
Compound	Spike Added	Sample Concentration	QC Sample Concentration	Percent Recovery	RPD	QC Limits	
						RPD	REC.
1,1-Dichloroethene	50.000	ND	60	120			61-145
Benzene	50.000	ND	56	111			76-127
Chlorobenzene	50.000	ND	56	111			75-130
Toluene	50.000	ND	56	111			76-125
Trichloroethene	50.000	ND	57	113			71-120

Matrix Spike Duplicate							
Compound	Spike Added	Sample Concentration	QC Sample Concentration	Percent Recovery	RPD	QC Limits	
						RPD	REC.
1,1-Dichloroethene	50.000	ND	64	128	7	0-14	61-145
Benzene	50.000	ND	58	117	5	0-11	76-127
Chlorobenzene	50.000	ND	59	117	5	0-13	75-130
Toluene	50.000	ND	59	118	6	0-13	76-125
Trichloroethene	50.000	ND	59	119	5	0-14	71-120

*** Values outside of QC Limits**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE / DUPLICATE RECOVERY

Lab Name: DNREC Environmental Laboratory Section **Lab Order ID:** 1106041

Test Group VOA **QCBatchID:** VOA-1106041

Matrix Spike - Sample No.: LCS-W **Matrix Type:** Liquid

LCS							
Compound	**Spike Added**	**Sample Concentration**	**QC Sample Concentration**	**Percent Recovery**	**RPD**	**QC Limits**	
						RPD	**REC.**
1,1-Dichloroethene	50.000		62	124			61-145
Benzene	50.000		56	113			76-127
Chlorobenzene	50.000		56	112			75-130
Toluene	50.000		57	114			76-125
Trichloroethene	50.000		58	116			71-120

*** Values outside of QC Limits**

GC/MS QA-QC Check Report

Tune File : C:\msdchem\1\DATA\MS50621L.jml\062102.D
Tune Time : 21 Jun 2011 11:13 am

Daily Calibration File : C:\msdchem\1\DATA\MS50621L.jml\062103.D

		(DCE)	(TOL)	(BFB)	(BCM)	(DFB)	(CBZ)
					163307	1030340	942540
File	Sample	Surrogate Recovery %			Internal Standard Responses		
062105.D	Method Bla	101	99	94	142482	872101	798412
062106.D	1106041-001	101	99	94	126820	774207	707374
062107.D	LCS-W	101	98	94	136693	850479	771628
062108.D	1106041-004	100	98	93	138314	828980	764125
062109.D	MS-W	102	99	94	144309	891834	806955
062110.D	MSD-W	103	98	95	127016	796683	725143
062111.D	1106041-002	104	98	95	118689	739441	682891
062112.D	1106041-003	101	98	93	122461	743884	684952
062113.D	1106041-005	102	99	96	129257	783413	724187
062114.D	1106041-006	101	99	95	139037	834951	773402
062115.D	1106041-007	103	99	96	123769	765465	698359
062116.D	1106041-008	102	98	92	131993	807659	745697
062117.D	VSTD050	103	99	101	129511	817119	745487

(fails) - fails 12hr time check * - fails criteria

Created: Wed Jun 22 11:40:10 2011 DEL5

Spike Recovery and RPD Summary Report - WATER

Method Path : C:\msdchem\2\Methods\
Method File : I50614L.M
Title : VOA Standards for 6 point calibration
Last Update : Tue Jun 14 15:23:20 2011
Response Via : Initial Calibration

Datafile Path: C:\msdchem\1\DATA\MS50621L.jml\

------Sample-------
File : 062105.D
Name : Method Blank Acq Time: 21 Jun 2011 12:38 pm

------Spike--------
File : 062107.D
Name : LCS-W Acq Time: 21 Jun 2011 1:36 pm

--Spike Duplicate--
File : 062107.D
Name : LCS-W Acq Time: 21 Jun 2011 1:36 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	50	62	62	124	124	0	14	61-145
Benzene	0.0	50	56	56	113	113	0	11	76-127
Trichloroethene	0.0	50	58	58	116	116	0	14	71-120
Toluene	0.0	50	57	57	114	114	0	13	76-125
Chlorobenzene	0.0	50	56	56	112	112	0	13	75-130

- Fails Limit Check

I50614L.M Wed Jun 22 11:37:43 2011

Spike Recovery and RPD Summary Report - WATER

Method Path : C:\msdchem\2\Methods\
Method File : I50614L.M
Title : VOA Standards for 6 point calibration
Last Update : Tue Jun 14 15:23:20 2011
Response Via : Initial Calibration

Datafile Path: C:\msdchem\1\DATA\MS50621L.jml\

------Sample-------
File : 062108.D
Name : 1106041-004 Acq Time: 21 Jun 2011 2:05 pm

------Spike--------
File : 062109.D
Name : MS-W Acq Time: 21 Jun 2011 2:34 pm

--Spike Duplicate--
File : 062110.D
Name : MSD-W Acq Time: 21 Jun 2011 3:03 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	50	60	64	120	128	7	14	61-145
Benzene	0.0	50	56	58	111	117	5	11	76-127
Trichloroethene	0.0	50	57	59	113	119	5	14	71-120
Toluene	0.0	50	56	59	111	118	6	13	76-125
Chlorobenzene	0.0	50	56	59	111	117	5	13	75-130

- Fails Limit Check

I50614L.M Wed Jun 22 11:38:19 2011

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062106.D
Acq On : 21 Jun 2011 1:07 pm
Operator : jml
Sample : 1106041-001
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 22 10:45:26 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.796	128	126820	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	774207	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	707374	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	187872	50.50 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 101.00%		
38) Toluene-d8	8.944	98	850583	49.72 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 99.44%		
49) 4-Bromofluorobenzene	10.982	95	293068	47.04 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 94.08%		

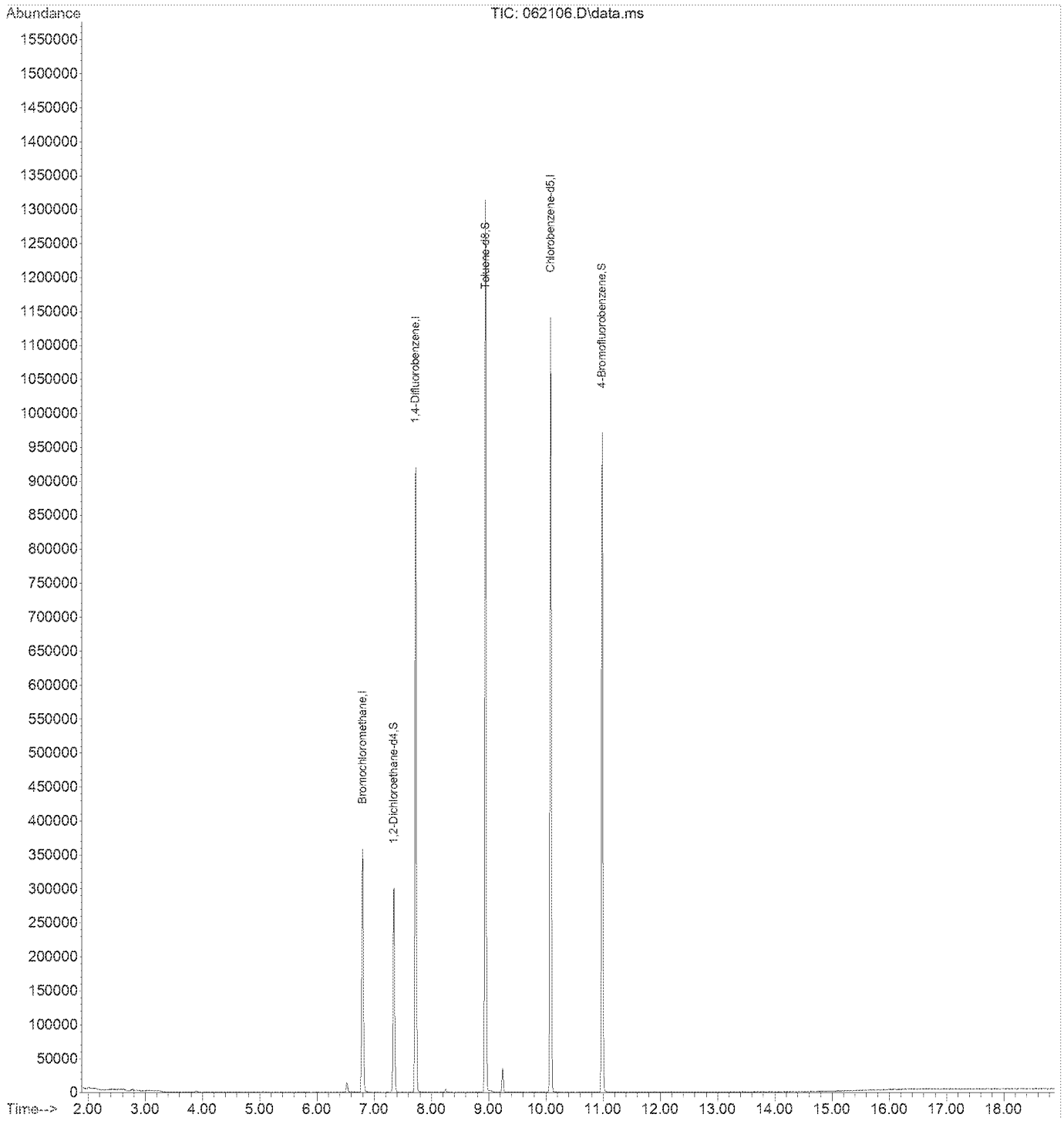
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062106.D
Acq On : 21 Jun 2011 1:07 pm
Operator : jml
Sample : 1106041-001
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 22 10:45:26 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062106.D
Acq On : 21 Jun 2011 1:07 pm
Operator : jml
Sample : 1106041-001
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\2\Methods\I50614L.M
Title : VOA Standards for 6 point calibration

Signal : TIC: 062106.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.523	756	763	771	rBV	14255	29401	1.41%	0.355%
2	6.796	800	808	821	rBV	358458	693641	33.16%	8.369%
3	7.344	890	898	910	rBV	300351	554146	26.49%	6.686%
4	7.721	953	960	970	rBV	919405	1528277	73.07%	18.438%
5	8.944	1153	1161	1170	rBV	1312934	2091575	100.00%	25.234%
6	9.242	1205	1210	1218	rVB	35461	59753	2.86%	0.721%
7	10.082	1341	1348	1358	rBV	1141066	1811657	86.62%	21.857%
8	10.982	1489	1496	1506	rBV	970921	1520234	72.68%	18.341%

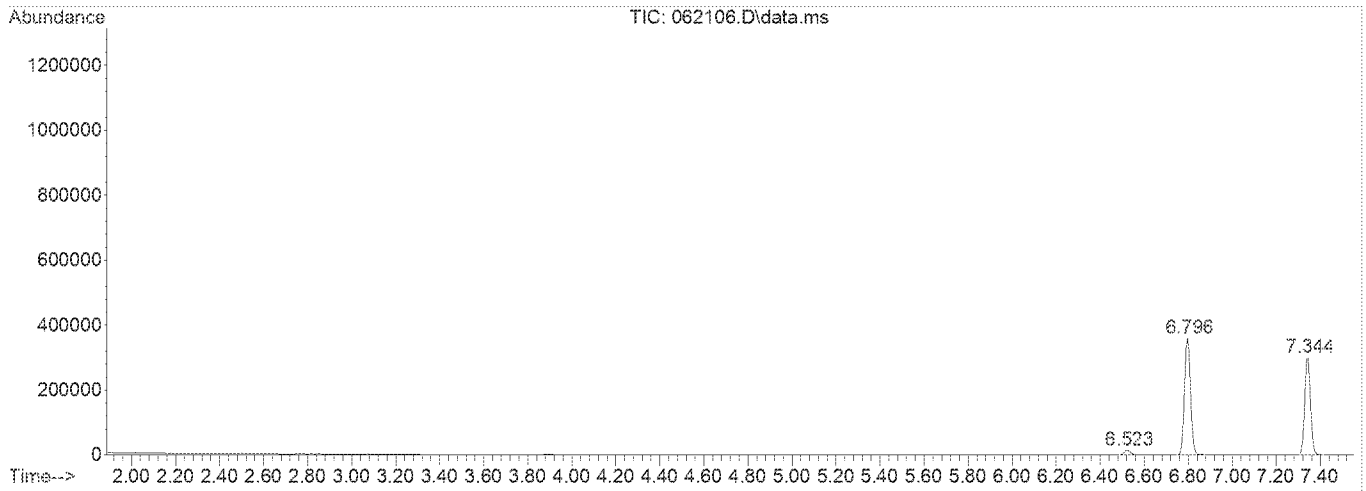
Sum of corrected areas: 8288684

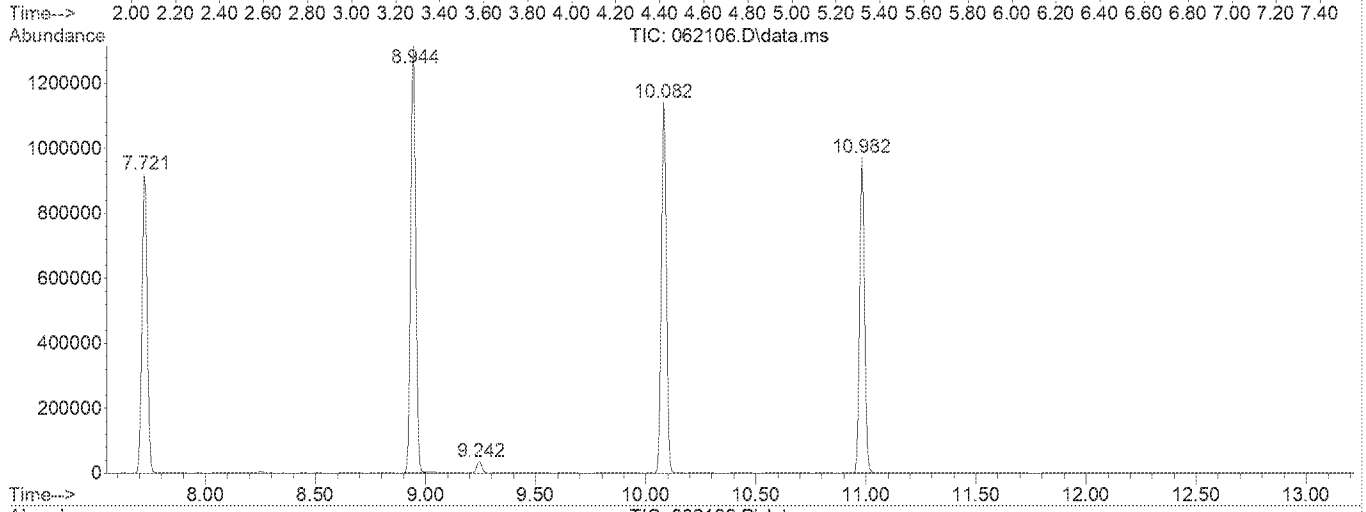
LSC Report - Integrated Chromatogram

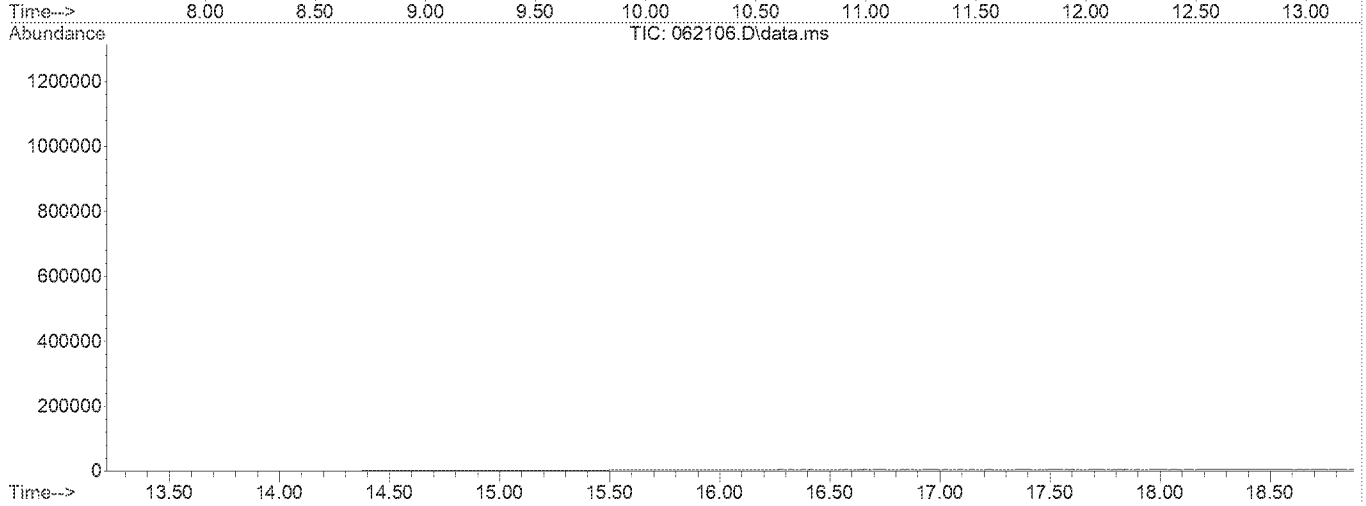
Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062106.D
Acq On : 21 Jun 2011 1:07 pm
Operator : jml
Sample : 1106041-001
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration

TIC Library : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\MS50621L.jml\\
Data File : 062106.D
Acq On : 21 Jun 2011 1:07 pmm
Operator : jml1
Sample : 1106041-0011
Misc : 11
ALS Vial : 9 Sample Multiplier: 11

Quant Method : C:\msdchem\2\Methods\I50614L.MM
Quant Title : VOA Standards for 6 point calibrationn

TIC Library : C:\Database\Nist98.l1
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062111.D
Acq On : 21 Jun 2011 3:32 pm
Operator : jml
Sample : 1106041-002
Misc : 1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 22 11:01:21 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.796	128	118689	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.727	114	739441	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	682891	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.344	65	180637	51.88 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 103.76%		
38) Toluene-d8	8.944	98	812457	49.20 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 98.40%		
49) 4-Bromofluorobenzene	10.982	95	284510	47.30 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 94.60%		

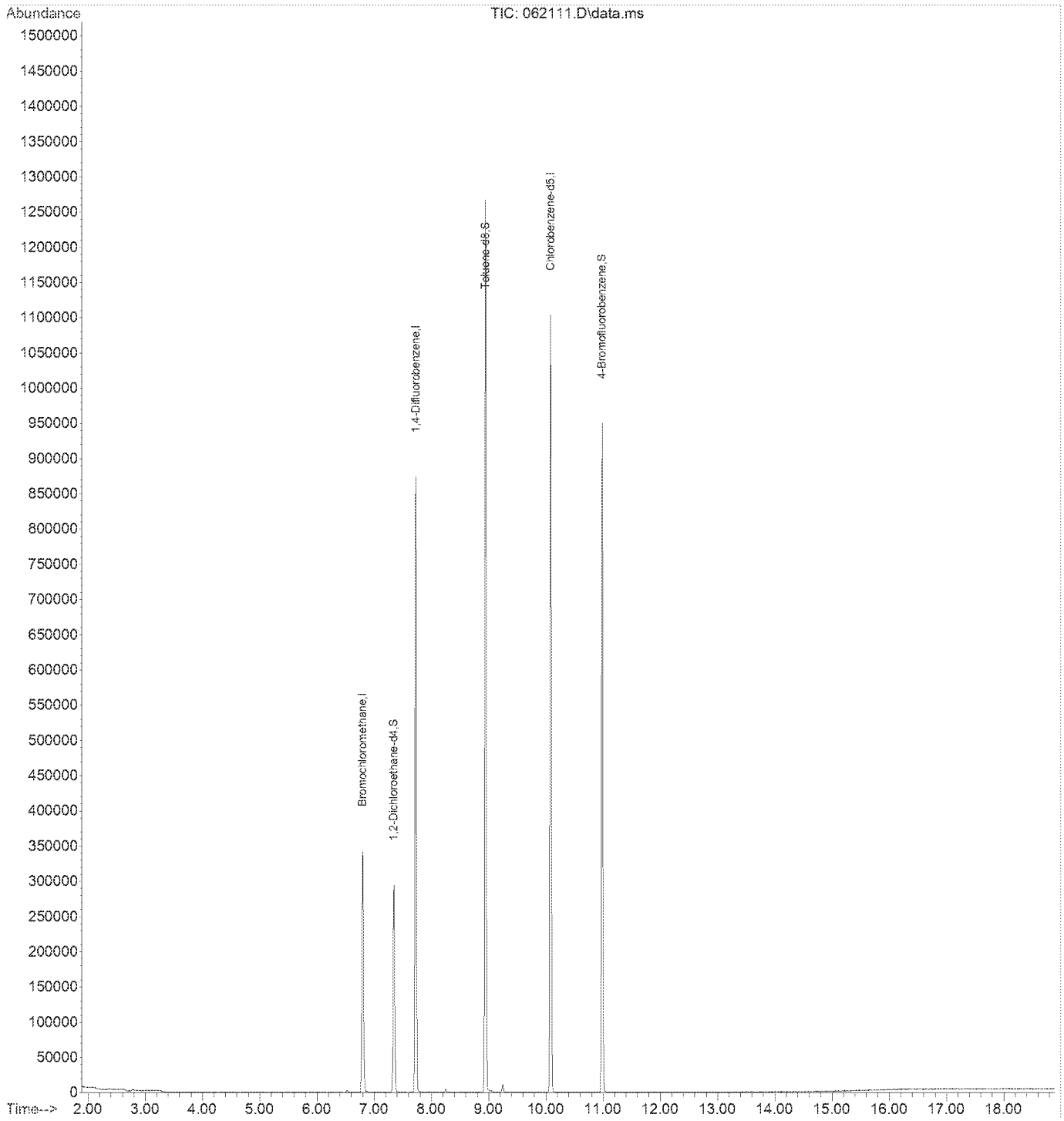
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062111.D
Acq On : 21 Jun 2011 3:32 pm
Operator : jml
Sample : 1106041-002
Misc : 1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 22 11:01:21 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062111.D
Acq On : 21 Jun 2011 3:32 pm
Operator : jml
Sample : 1106041-002
Misc : 1
ALS Vial : 14 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\2\Methods\I50614L.M
Title : VOA Standards for 6 point calibration

Signal : TIC: 062111.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.796	801	808	820	rBV	341927	652881	32.78%	8.342%
2	7.344	891	898	913	rBV	293837	529045	26.56%	6.759%
3	7.727	953	961	970	rBV	873006	1457851	73.19%	18.626%
4	8.944	1154	1161	1168	rBV	1265754	1991820	100.00%	25.449%
5	10.082	1341	1348	1357	rBV	1102826	1744735	87.60%	22.292%
6	10.982	1489	1496	1508	rBV	949512	1450490	72.82%	18.532%

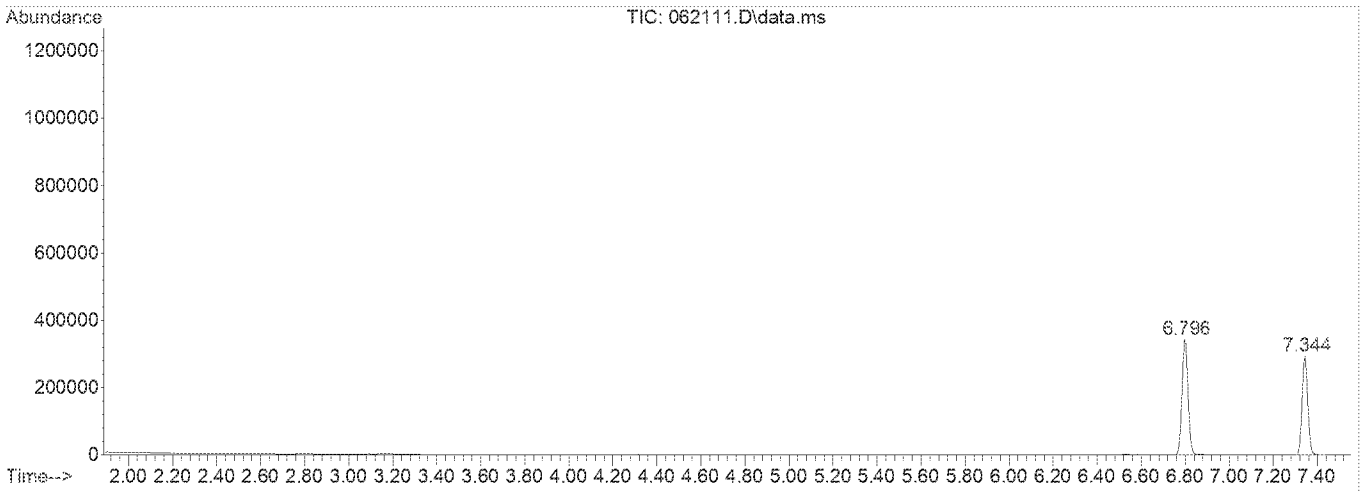
Sum of corrected areas: 7826822

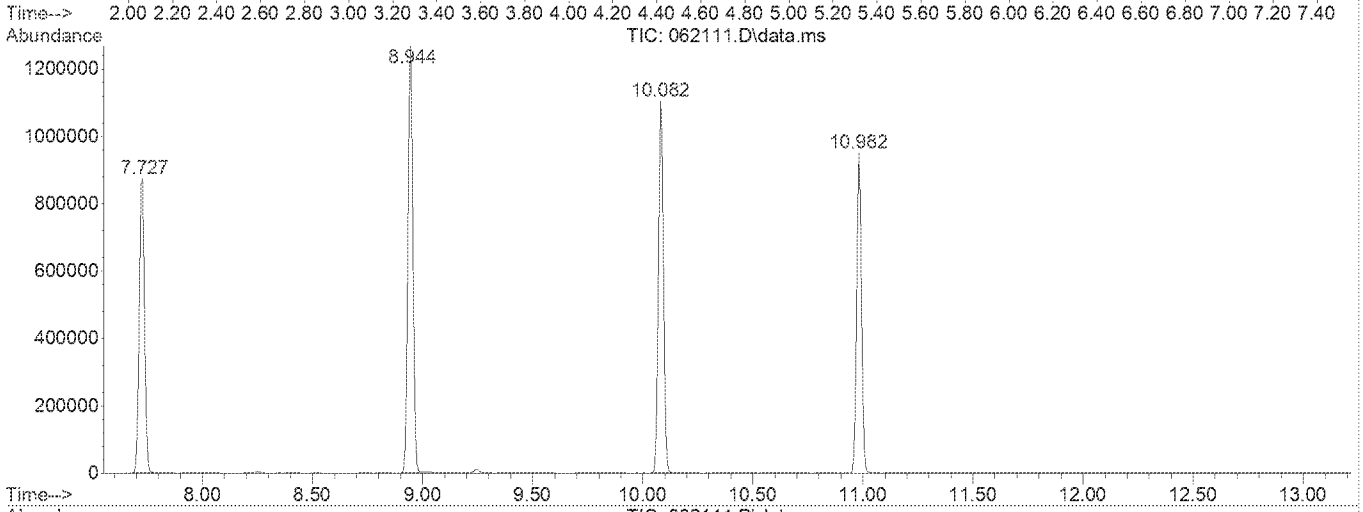
LSC Report - Integrated Chromatogram

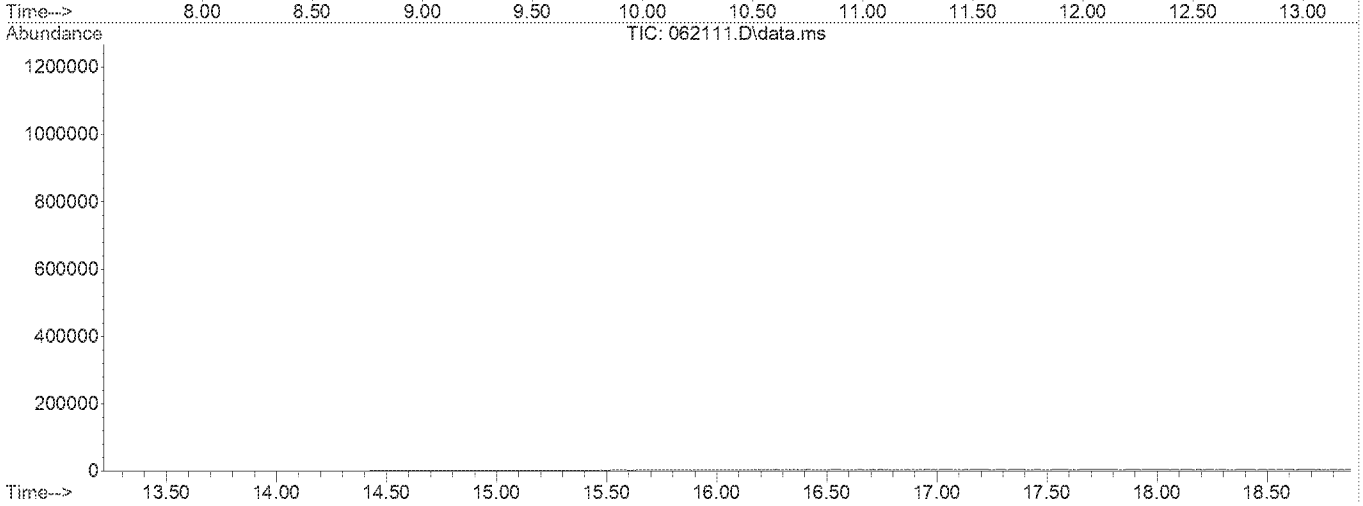
Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062111.D
Acq On : 21 Jun 2011 3:32 pm
Operator : jml
Sample : 1106041-002
Misc : 1
ALS Vial : 14 Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration

TIC Library : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

```
Data Path : C:\msdchem\1\DATA\MS50621L.jml\\
Data File : 062111.D
Acq On    : 21 Jun 2011   3:32 pmm
Operator  : jml1
Sample    : 1106041-0022
Misc      : 11
ALS Vial  : 14   Sample Multiplier: 11

Quant Method : C:\msdchem\2\Methods\I50614L.MM
Quant Title  : VOA  Standards for 6 point calibrationn

TIC Library   : C:\Database\Nist98.l1
TIC Integration Parameters: LSCINT.PP

                                                  |--Internal Standard---|
TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062112.D
Acq On : 21 Jun 2011 4:01 pm
Operator : jml
Sample : 1106041-003
Misc : 1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 22 11:02:19 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.796	128	122461	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.727	114	743884	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	684952	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.344	65	181001	50.39 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 100.78%		
38) Toluene-d8	8.944	98	812542	49.05 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 98.10%		
49) 4-Bromofluorobenzene	10.982	95	281391	46.65 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 93.30%		

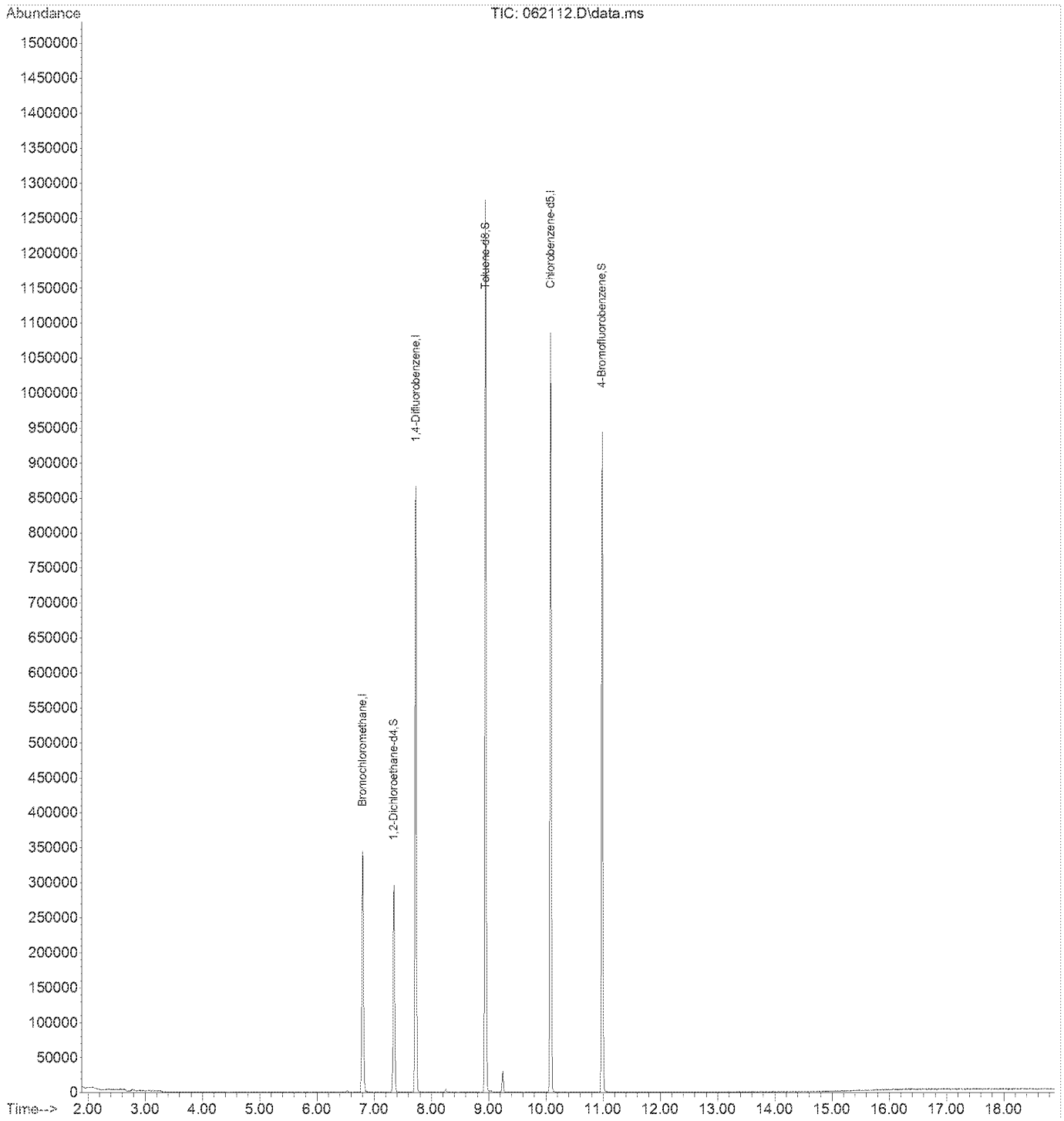
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062112.D
Acq On : 21 Jun 2011 4:01 pm
Operator : jml
Sample : 1106041-003
Misc : 1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 22 11:02:19 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062112.D
Acq On : 21 Jun 2011 4:01 pm
Operator : jml
Sample : 1106041-003
Misc : 1
ALS Vial : 15 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\2\Methods\I50614L.M
Title : VOA Standards for 6 point calibration

Signal : TIC: 062112.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.796	800	808	821	rBV	344371	664376	33.27%	8.400%
2	7.344	890	898	912	rVB	296268	531444	26.61%	6.719%
3	7.727	953	961	970	rBV	865736	1468216	73.52%	18.563%
4	8.944	1153	1161	1170	rBV	1275037	1996946	100.00%	25.248%
5	9.248	1203	1211	1216	rBV	29534	48222	2.41%	0.610%
6	10.082	1341	1348	1362	rBV	1085255	1742458	87.26%	22.030%
7	10.982	1489	1496	1507	rBV	943404	1457786	73.00%	18.431%

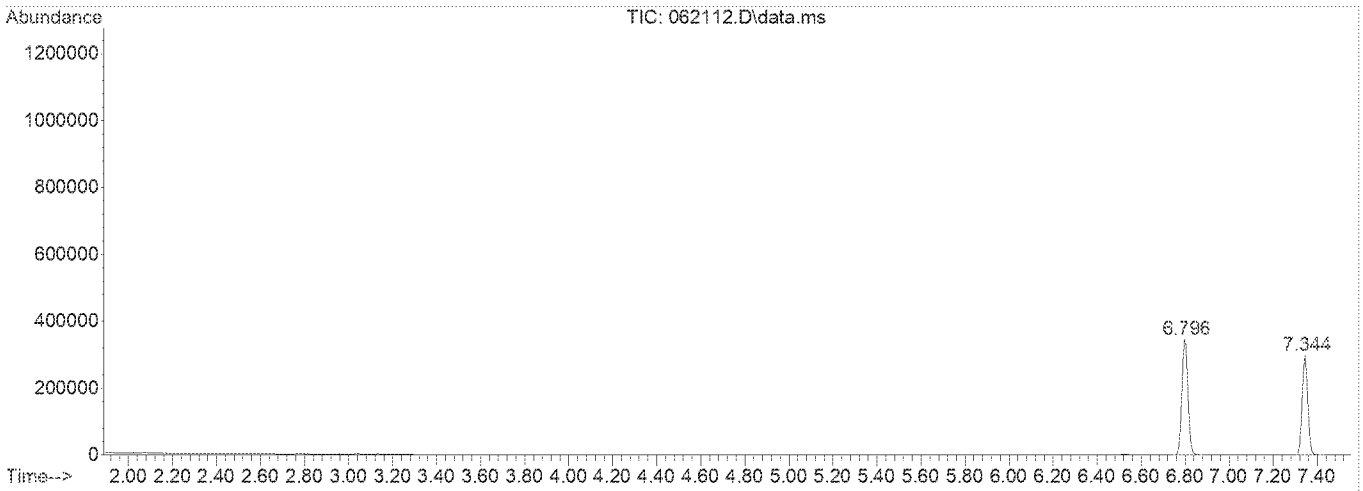
Sum of corrected areas: 7909448

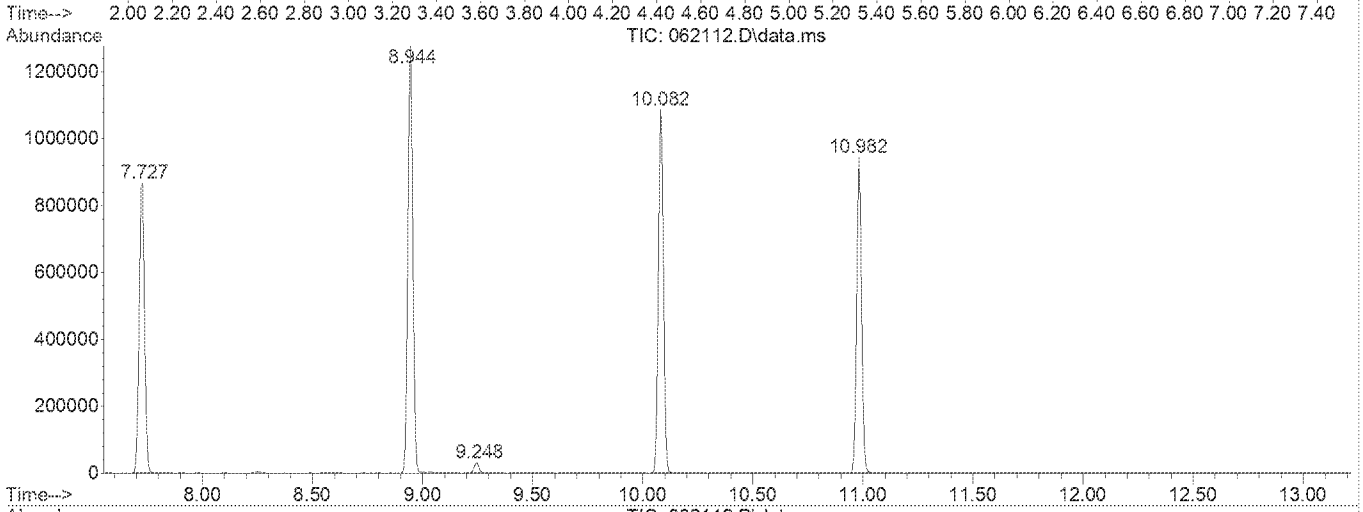
LSC Report - Integrated Chromatogram

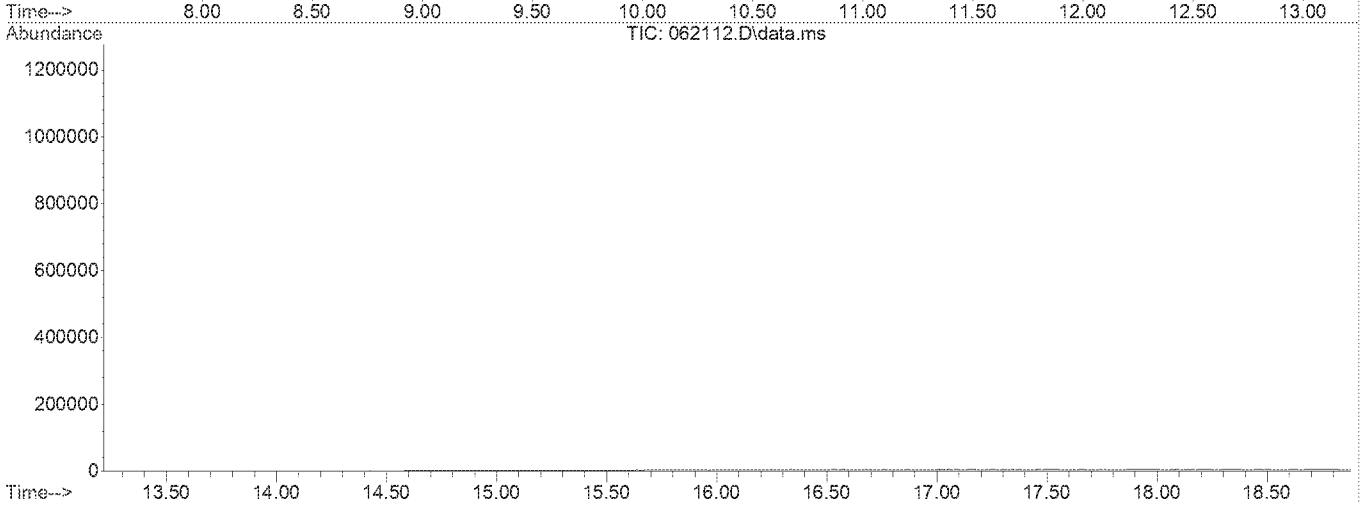
Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062112.D
Acq On : 21 Jun 2011 4:01 pm
Operator : jml
Sample : 1106041-003
Misc : 1
ALS Vial : 15 Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration

TIC Library : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\MS50621L.jml\\
Data File : 062112.D
Acq On : 21 Jun 2011 4:01 pmm
Operator : jml1
Sample : 1106041-0033
Misc : 11
ALS Vial : 15 Sample Multiplier: 11

Quant Method : C:\msdchem\2\Methods\I50614L.MM
Quant Title : VOA Standards for 6 point calibrationn

TIC Library : C:\Database\Nist98.l1
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062108.D
Acq On : 21 Jun 2011 2:05 pm
Operator : jml
Sample : 1106041-004
Misc : 1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 22 10:53:55 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.796	128	138314	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	828980	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	764125	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.344	65	202234	49.84 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 99.68%		
38) Toluene-d8	8.944	98	907014	49.08 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 98.16%		
49) 4-Bromofluorobenzene	10.982	95	313398	46.57 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 93.14%		

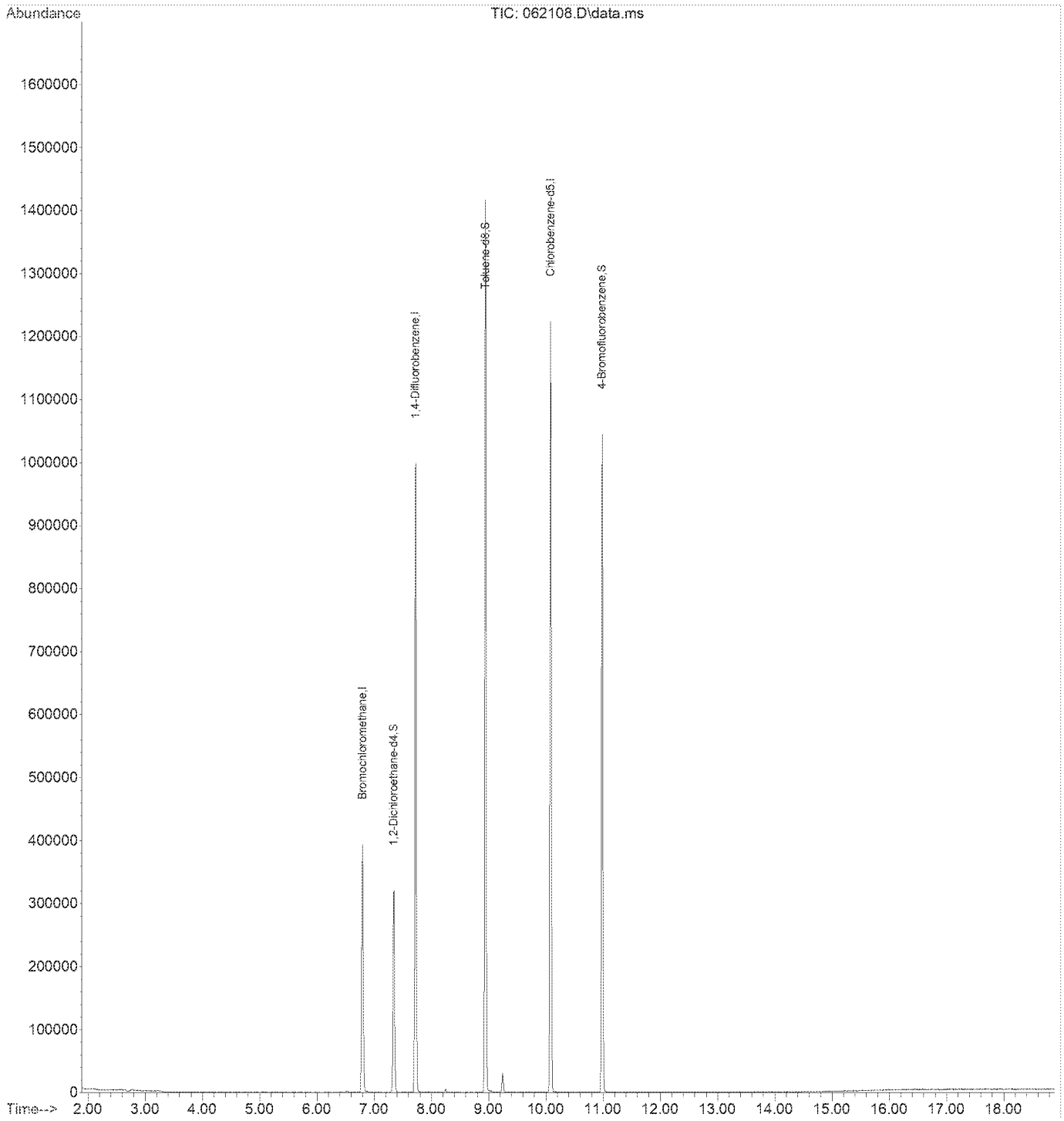
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062108.D
Acq On : 21 Jun 2011 2:05 pm
Operator : jml
Sample : 1106041-004
Misc : 1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 22 10:53:55 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062108.D
Acq On : 21 Jun 2011 2:05 pm
Operator : jml
Sample : 1106041-004
Misc : 1
ALS Vial : 11 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\2\Methods\I50614L.M
Title : VOA Standards for 6 point calibration

Signal : TIC: 062108.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.796	800	808	818	rBV	393037	748867	33.53%	8.484%
2	7.344	890	898	909	rBV	320364	597441	26.75%	6.768%
3	7.721	953	960	971	rBV	998298	1636110	73.25%	18.535%
4	8.944	1153	1161	1169	rBV	1415505	2233701	100.00%	25.306%
5	9.242	1204	1210	1217	rBV	29760	49101	2.20%	0.556%
6	10.082	1340	1348	1359	rBV	1223629	1943252	87.00%	22.015%
7	10.982	1489	1496	1506	rBV	1044416	1618429	72.46%	18.335%

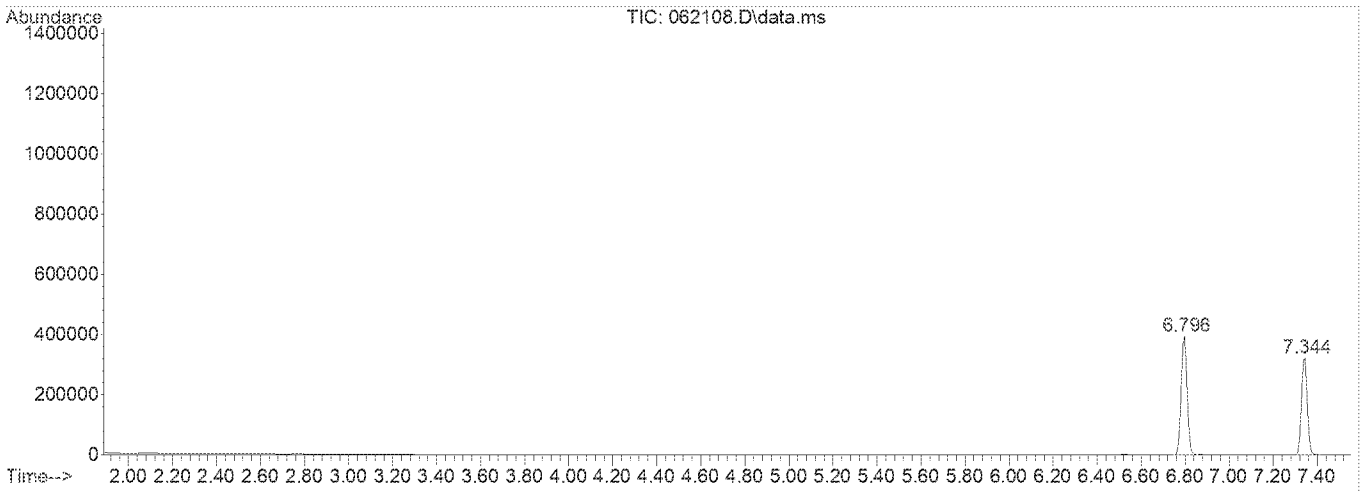
Sum of corrected areas: 8826901

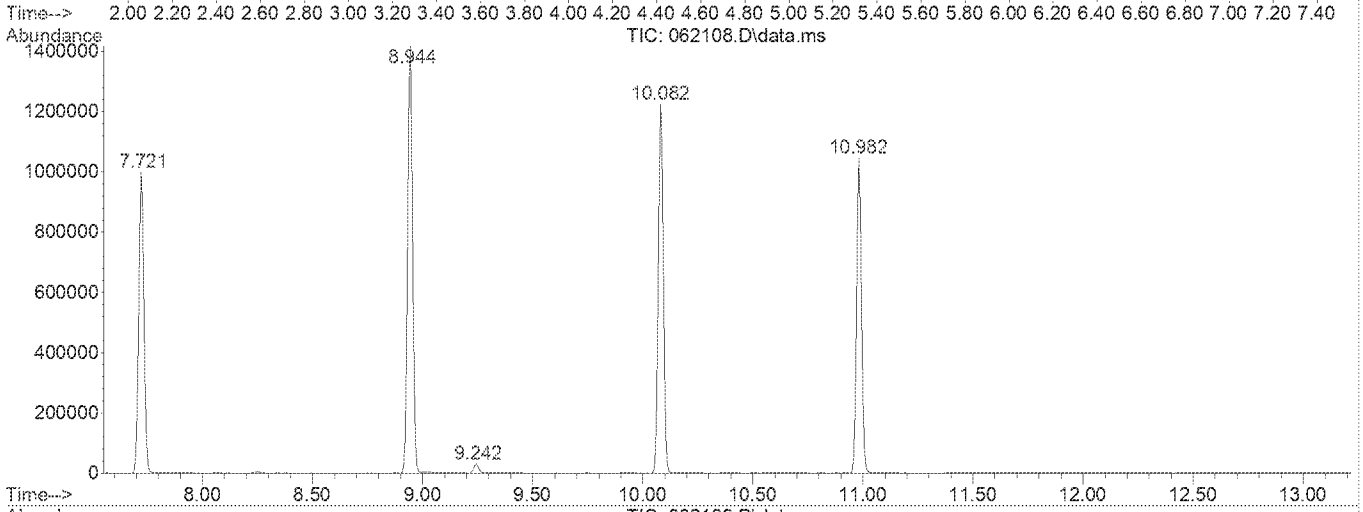
LSC Report - Integrated Chromatogram

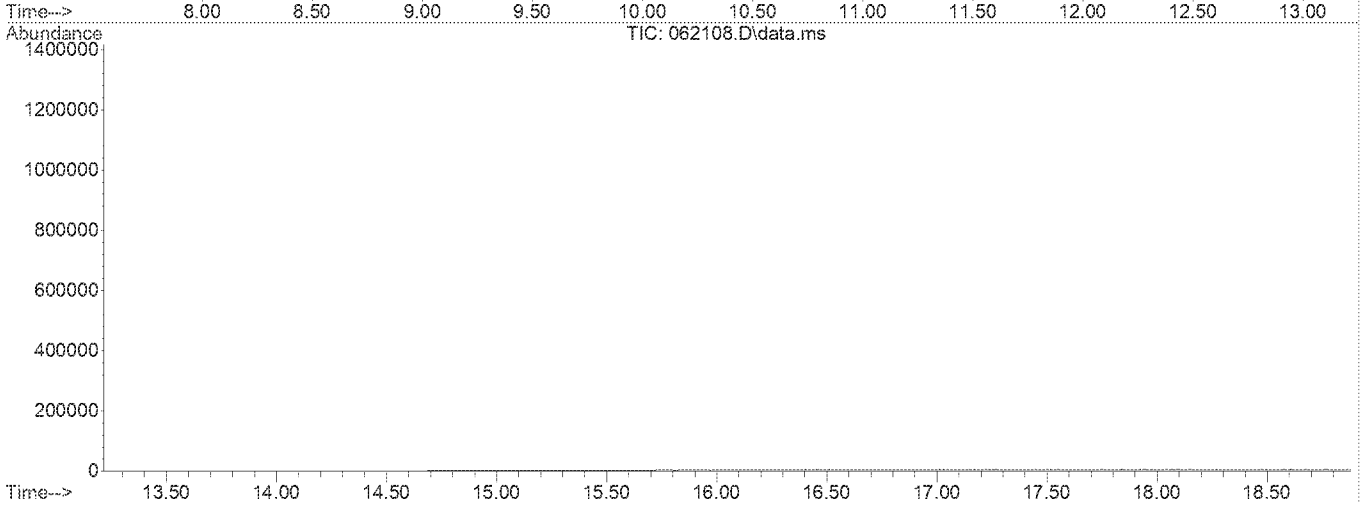
Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062108.D
Acq On : 21 Jun 2011 2:05 pm
Operator : jml
Sample : 1106041-004
Misc : 1
ALS Vial : 11 Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration

TIC Library : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

```
Data Path : C:\msdchem\1\DATA\MS50621L.jml\\
Data File : 062108.D
Acq On    : 21 Jun 2011   2:05 pmm
Operator  : jml1
Sample    : 1106041-0044
Misc      : 11
ALS Vial  : 11   Sample Multiplier: 11

Quant Method : C:\msdchem\2\Methods\I50614L.MM
Quant Title  : VOA  Standards for 6 point calibrationn

TIC Library   : C:\Database\Nist98.l1
TIC Integration Parameters: LSCINT.PP

                                                  |--Internal Standard---|
TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062113.D
Acq On : 21 Jun 2011 4:30 pm
Operator : jml
Sample : 1106041-005
Misc : 1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 22 11:06:03 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

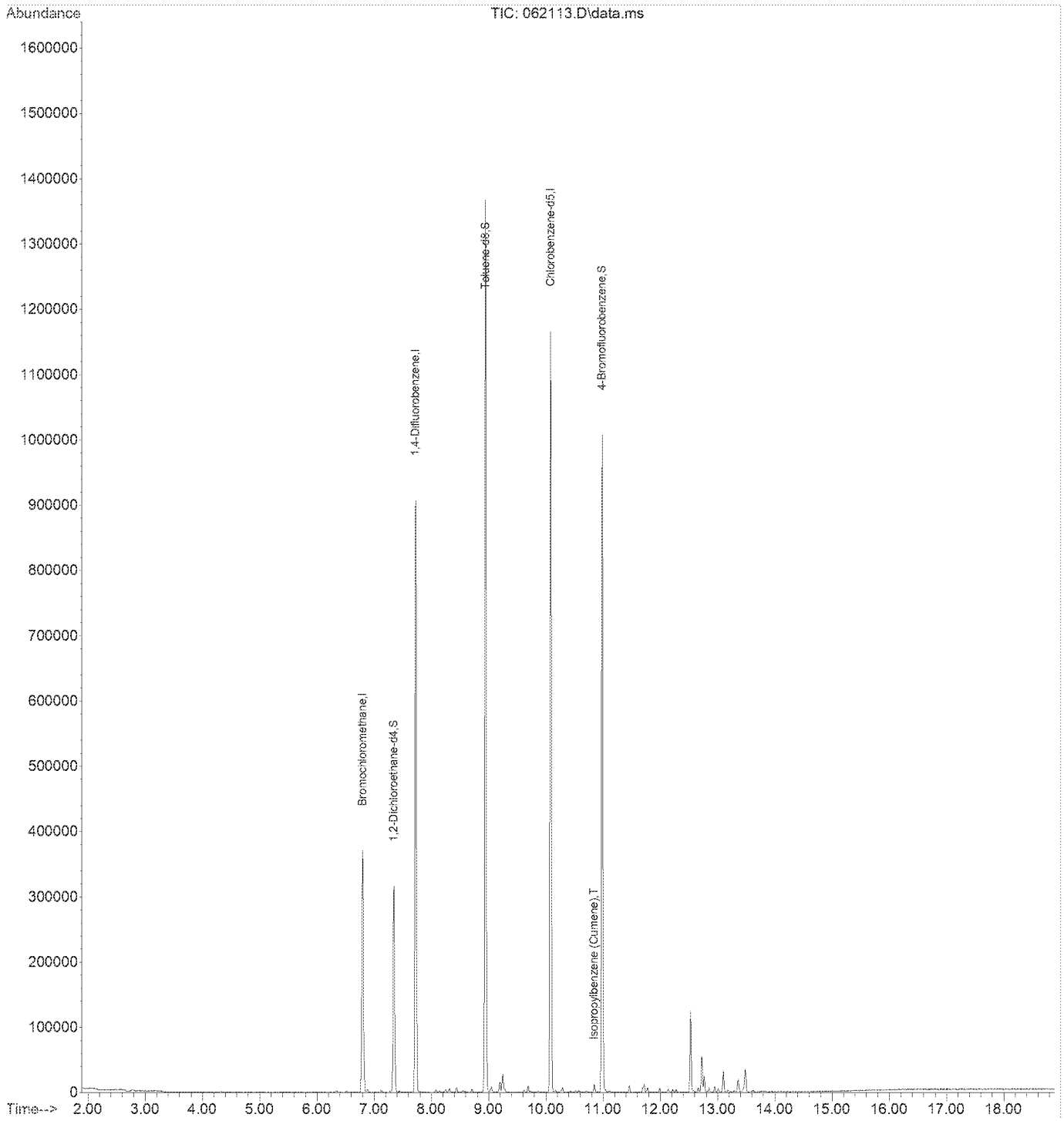
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.797	128	129257	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	783413	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	724187	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.344	65	193505	51.03 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 102.06%		
38) Toluene-d8	8.944	98	865396	49.41 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 98.82%		
49) 4-Bromofluorobenzene	10.982	95	306520	48.06 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 96.12%		
Target Compounds					Qvalue
50) Isopropylbenzene (Cumene)	10.842	105	8137	0.40 ug/l	97

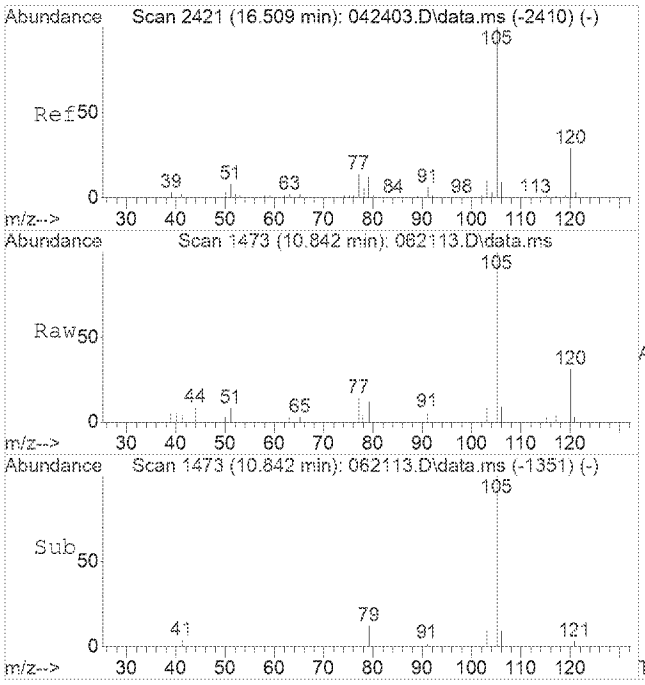
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062113.D
Acq On : 21 Jun 2011 4:30 pm
Operator : jml
Sample : 1106041-005
Misc : 1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jun 22 11:06:03 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

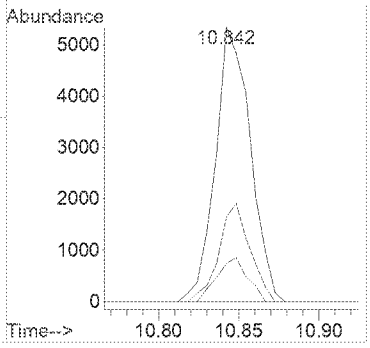




#50
Isopropylbenzene (Cumene)
Concen: 0.40 ug/l
RT: 10.842 min Scan# 1473
Delta R.T. -0.006 min
Lab File: 062113.D
Acq: 21 Jun 2011 4:30 pm

Tgt Ion:105 Resp: 8137

Ion	Ratio	Lower	Upper
105	100		
120	30.9	9.8	49.8
77	14.0	0.0	32.3



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062113.D
Acq On : 21 Jun 2011 4:30 pm
Operator : jml
Sample : 1106041-005
Misc : 1
ALS Vial : 16 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\2\Methods\I50614L.M
Title : VOA Standards for 6 point calibration

Signal : TIC: 062113.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.797	800	808	817	rBV	369851	700980	32.51%	7.870%
2	7.344	890	898	909	rBV	315578	561663	26.05%	6.306%
3	7.721	953	960	971	rBV	906107	1544296	71.62%	17.338%
4	8.944	1150	1161	1170	rBV	1366178	2156101	100.00%	24.206%
5	9.200	1197	1203	1206	rBV2	15201	23960	1.11%	0.269%
6	9.248	1206	1211	1215	rVV	24995	38870	1.80%	0.436%
7	10.082	1341	1348	1358	rBV	1165844	1850211	85.81%	20.772%
8	10.982	1489	1496	1505	rBV	1006613	1567295	72.69%	17.596%
9	12.527	1744	1750	1756	rBV	124659	192237	8.92%	2.158%
10	12.722	1777	1782	1786	rBV	53192	80040	3.71%	0.899%
11	12.765	1786	1789	1794	rVB	24131	35363	1.64%	0.397%
12	13.099	1837	1844	1850	rBV	32972	47505	2.20%	0.533%
13	13.361	1881	1887	1893	rBV3	19082	33507	1.55%	0.376%
14	13.482	1895	1907	1919	rVB2	35170	75112	3.48%	0.843%

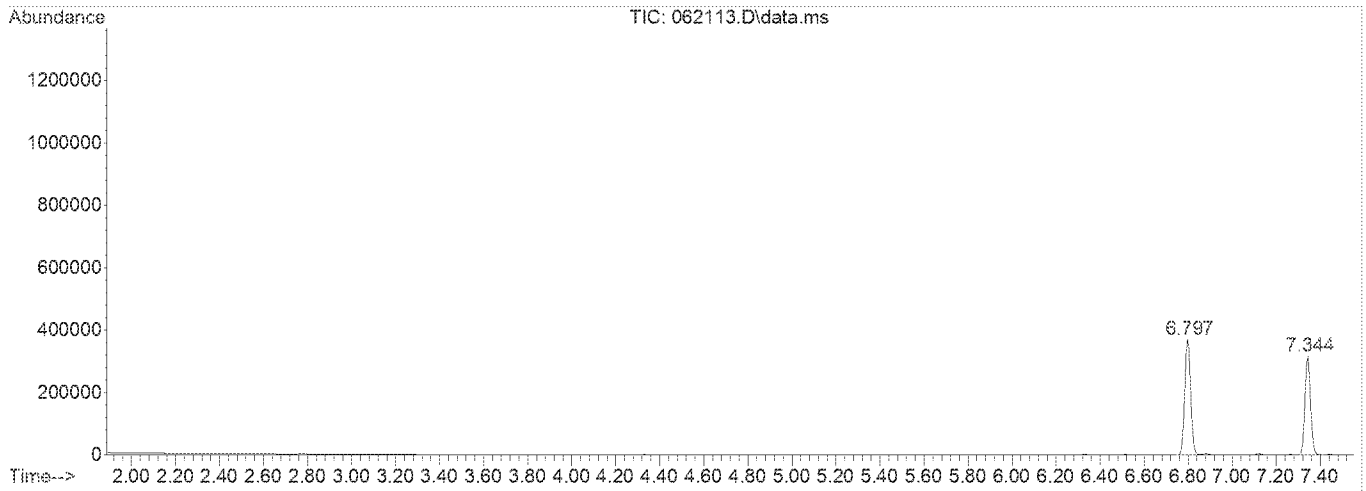
Sum of corrected areas: 8907140

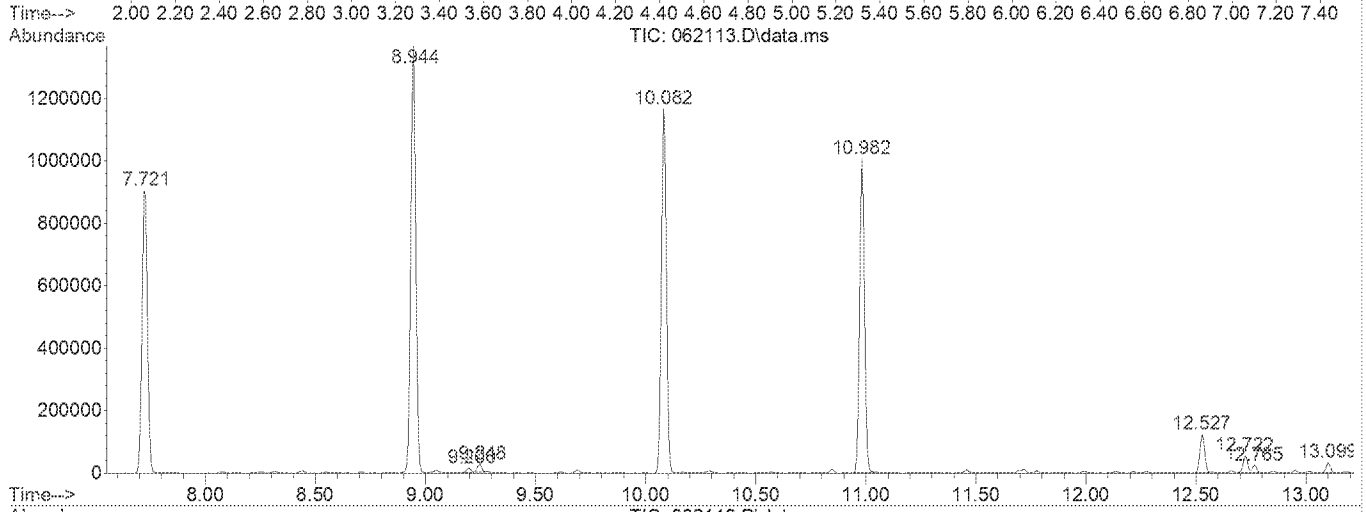
LSC Report - Integrated Chromatogram

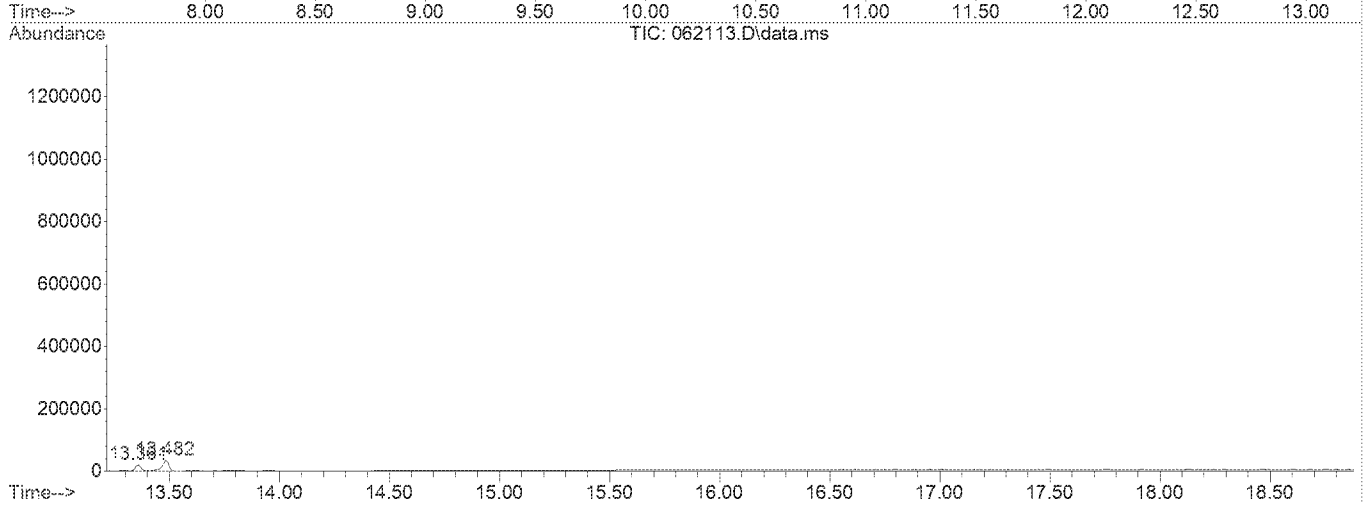
Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062113.D
Acq On : 21 Jun 2011 4:30 pm
Operator : jml
Sample : 1106041-005
Misc : 1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration

TIC Library : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

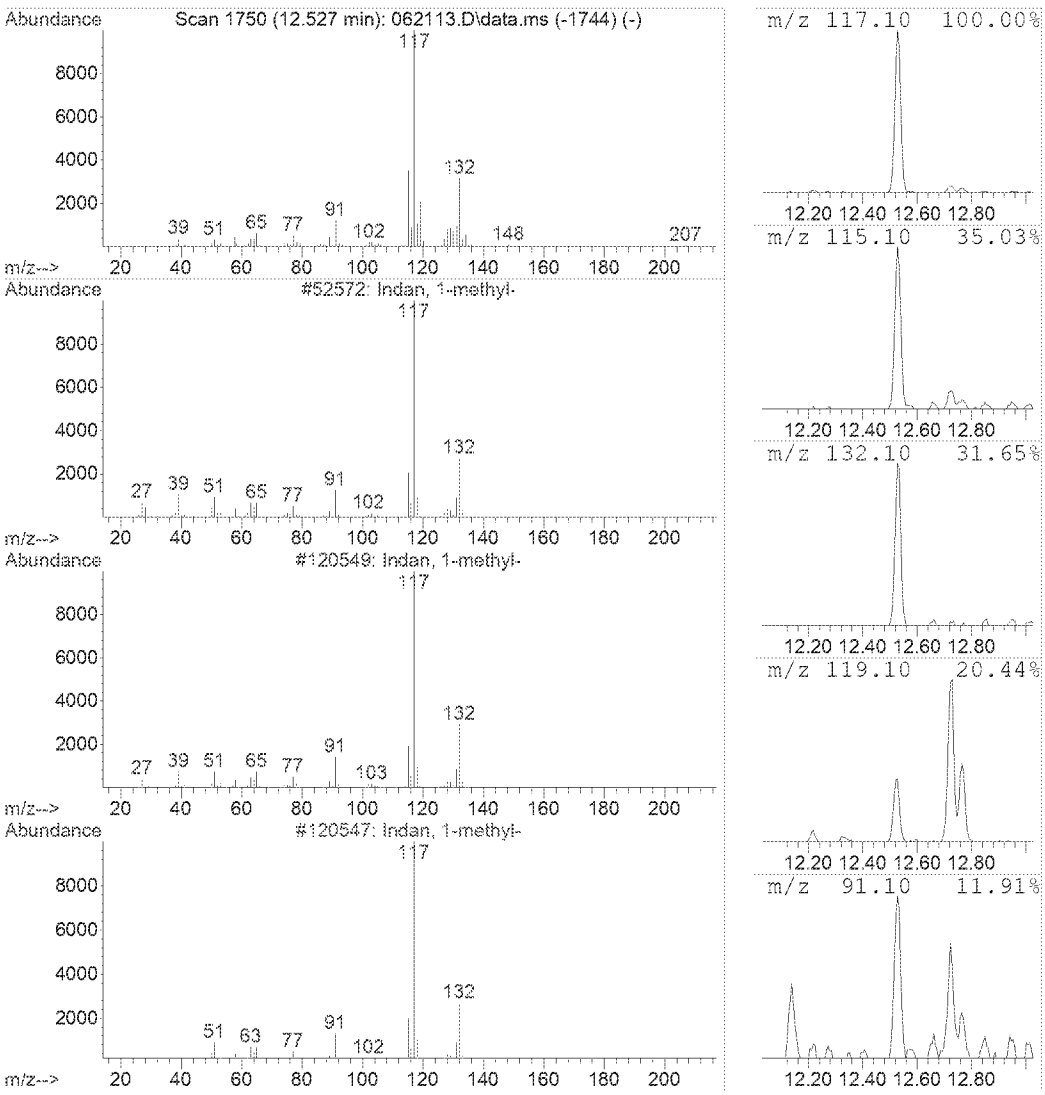
```
Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062113.D
Acq On    : 21 Jun 2011   4:30 pm
Operator  : jml
Sample    : 1106041-005
Misc      : 1
ALS Vial  : 16   Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title  : VOA  Standards for 6 point calibration

TIC Library    : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P
```

****

Peak Number 1 Unknown Aromatic Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.527	5.20 ug/l	192237	Chlorobenzene-d5	10.082

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	81
2	Indan, 1-methyl-	132	C10H12	000767-58-8	76
3	Indan, 1-methyl-	132	C10H12	000767-58-8	76
4	3-Phenylbut-1-ene	132	C10H12	000934-10-1	64
5	Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	62



Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062113.D
Acq On : 21 Jun 2011 4:30 pm
Operator : jml
Sample : 1106041-005
Misc : 1
ALS Vial : 16 Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration

TIC Library : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc
Unknown Aromatic	12.527	5.2	ug/l	192237	3	10.082	1850210	50.0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062114.D
Acq On : 21 Jun 2011 4:58 pm
Operator : jml
Sample : 1106041-006
Misc : 1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 22 11:08:27 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

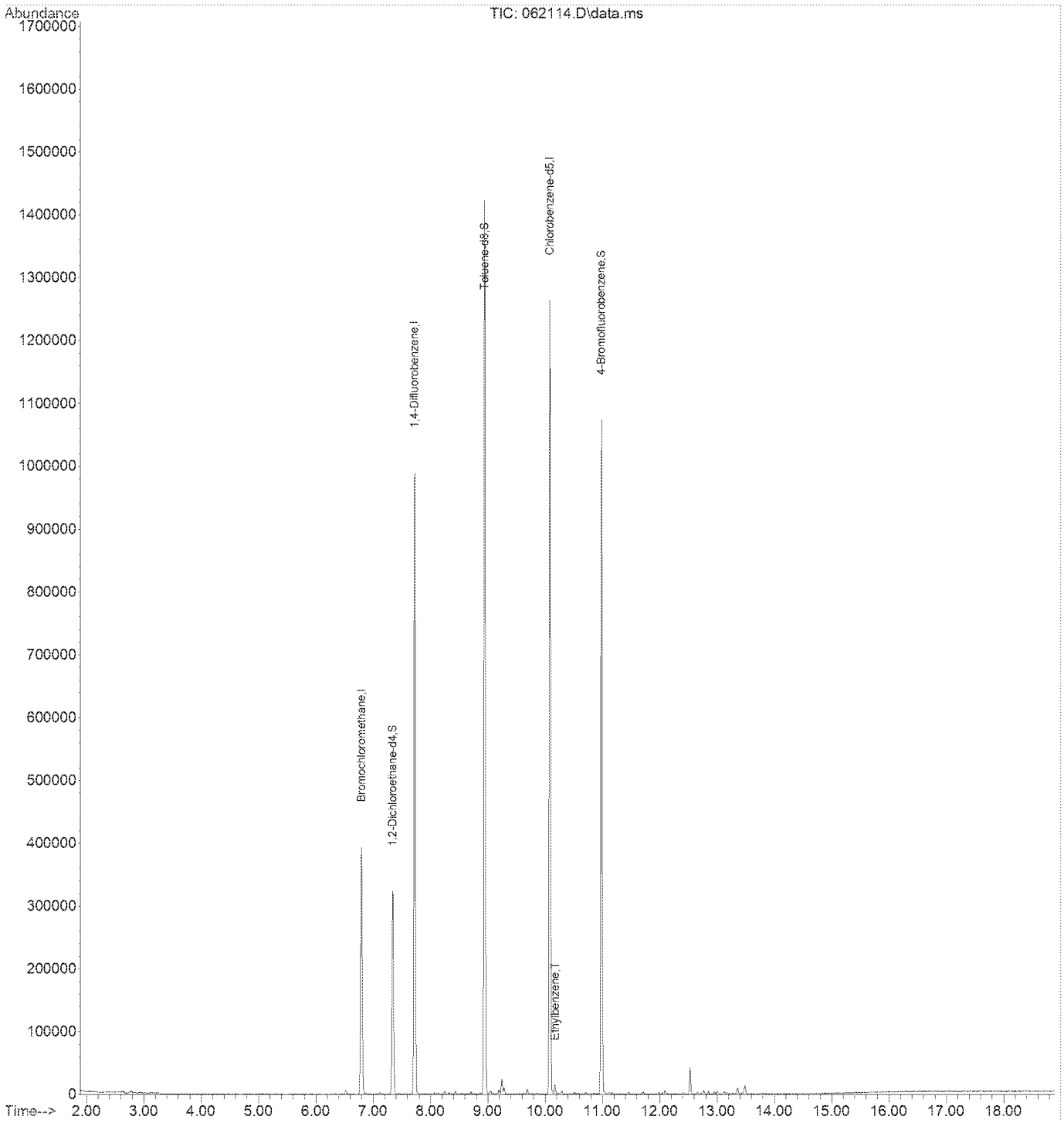
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.797	128	139037	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	834951	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	773402	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	206276	50.58 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 101.16%		
38) Toluene-d8	8.944	98	924775	49.44 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 98.88%		
49) 4-Bromofluorobenzene	10.982	95	324654	47.66 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 95.32%		
Target Compounds					Qvalue
44) Ethylbenzene	10.173	106	2701	0.36 ug/l	91

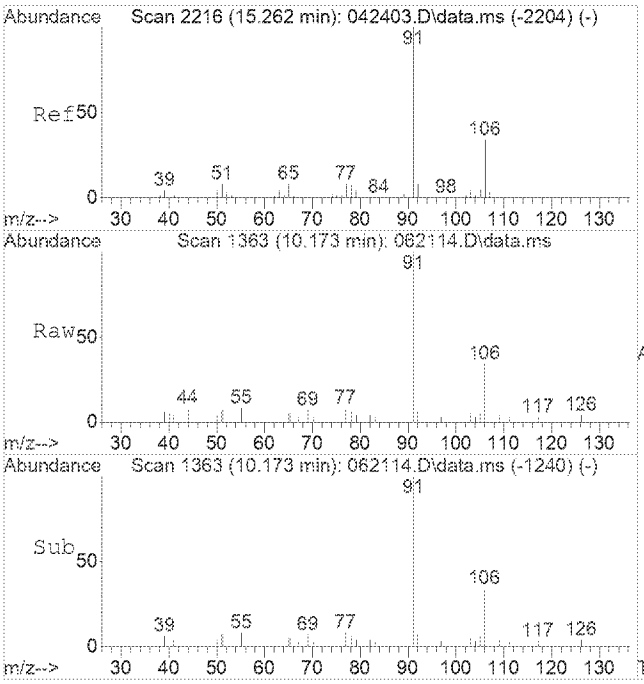
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062114.D
Acq On : 21 Jun 2011 4:58 pm
Operator : jml
Sample : 1106041-006
Misc : 1
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 22 11:08:27 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

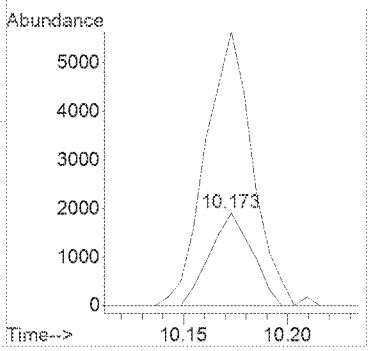




#44
Ethylbenzene
Concen: 0.36 ug/l
RT: 10.173 min Scan# 1363
Delta R.T. 0.000 min
Lab File: 062114.D
Acq: 21 Jun 2011 4:58 pm

Tgt Ion:106 Resp: 2701

Ion	Ratio	Lower	Upper
106	100		
91	295.8	258.3	298.3



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062114.D
Acq On : 21 Jun 2011 4:58 pm
Operator : jml
Sample : 1106041-006
Misc : 1
ALS Vial : 17 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\2\Methods\I50614L.M
Title : VOA Standards for 6 point calibration

Signal : TIC: 062114.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.797	798	808	817	rBV	393495	757034	33.18%	8.345%
2	7.338	890	897	910	rBV	323156	602355	26.40%	6.640%
3	7.721	953	960	972	rBV	988459	1642990	72.00%	18.111%
4	8.944	1151	1161	1173	rBV	1421242	2281827	100.00%	25.153%
5	9.242	1206	1210	1214	rBV	22035	34952	1.53%	0.385%
6	10.082	1341	1348	1358	rBV	1263749	1977624	86.67%	21.799%
7	10.173	1358	1363	1368	rVB	13875	23354	1.02%	0.257%
8	10.982	1489	1496	1504	rBV	1073270	1660899	72.79%	18.308%
9	12.527	1744	1750	1756	rBV2	41892	66004	2.89%	0.728%
10	13.488	1902	1908	1913	rVB	13067	24898	1.09%	0.274%

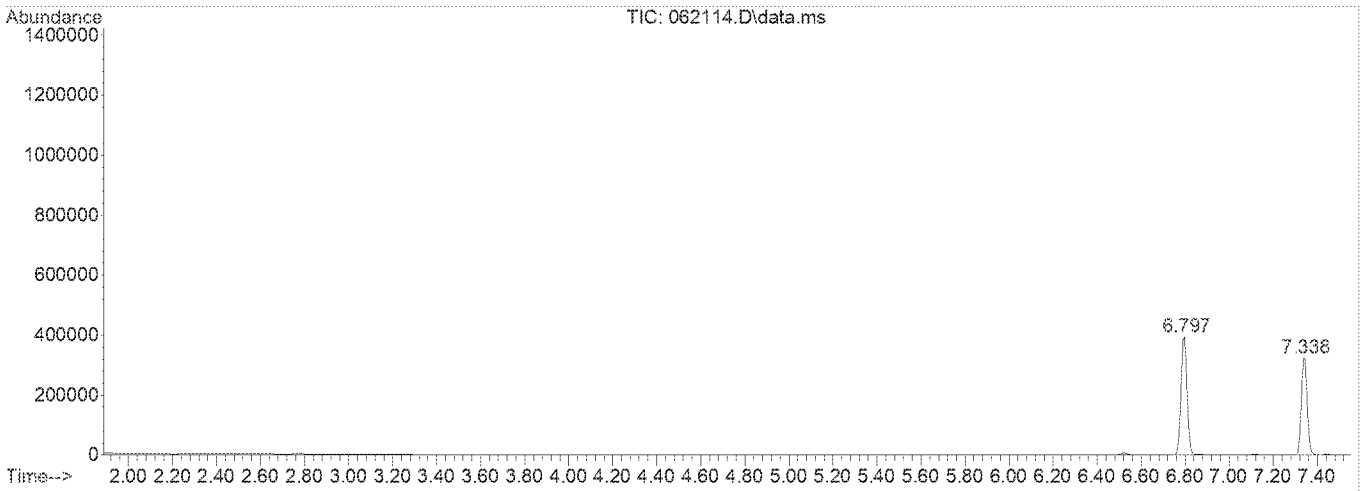
Sum of corrected areas: 9071937

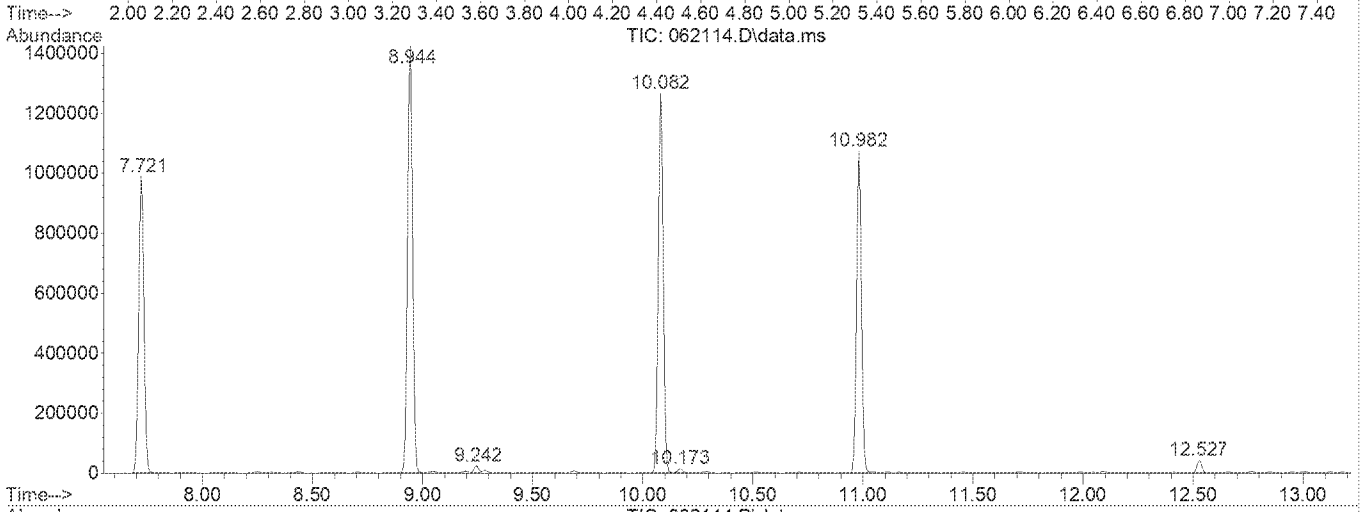
LSC Report - Integrated Chromatogram

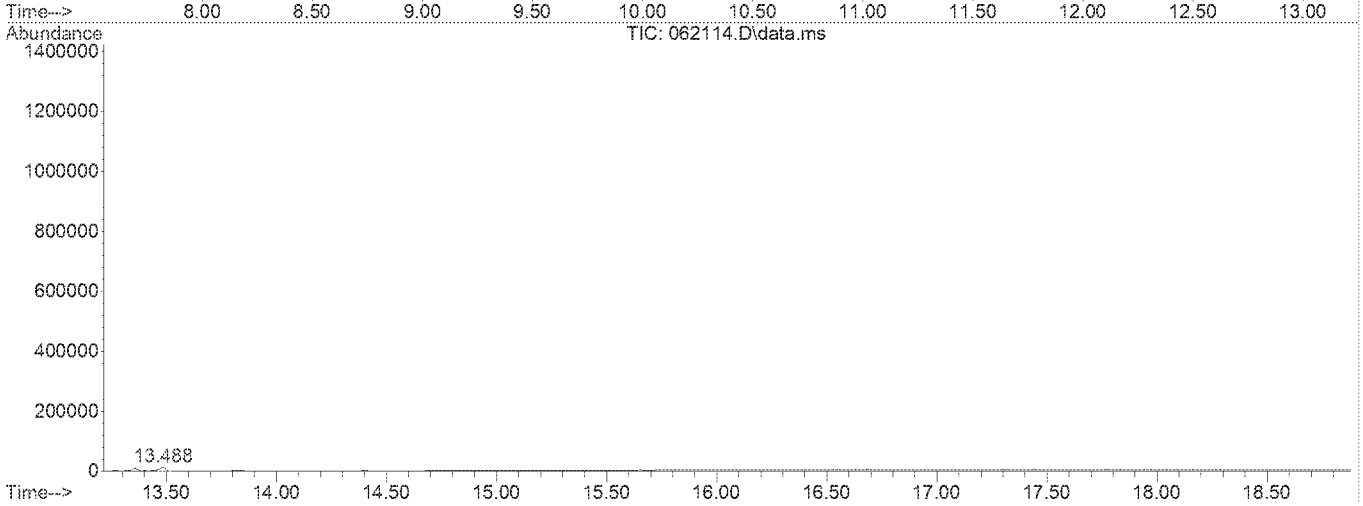
Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062114.D
Acq On : 21 Jun 2011 4:58 pm
Operator : jml
Sample : 1106041-006
Misc : 1
ALS Vial : 17 Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration

TIC Library : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\MS50621L.jml\\
Data File : 062114.D
Acq On : 21 Jun 2011 4:58 pmm
Operator : jml1
Sample : 1106041-0066
Misc : 11
ALS Vial : 17 Sample Multiplier: 11

Quant Method : C:\msdchem\2\Methods\I50614L.MM
Quant Title : VOA Standards for 6 point calibrationn

TIC Library : C:\Database\Nist98.l1
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062115.D
Acq On : 21 Jun 2011 5:27 pm
Operator : jml
Sample : 1106041-007
Misc : 1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 22 11:10:40 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

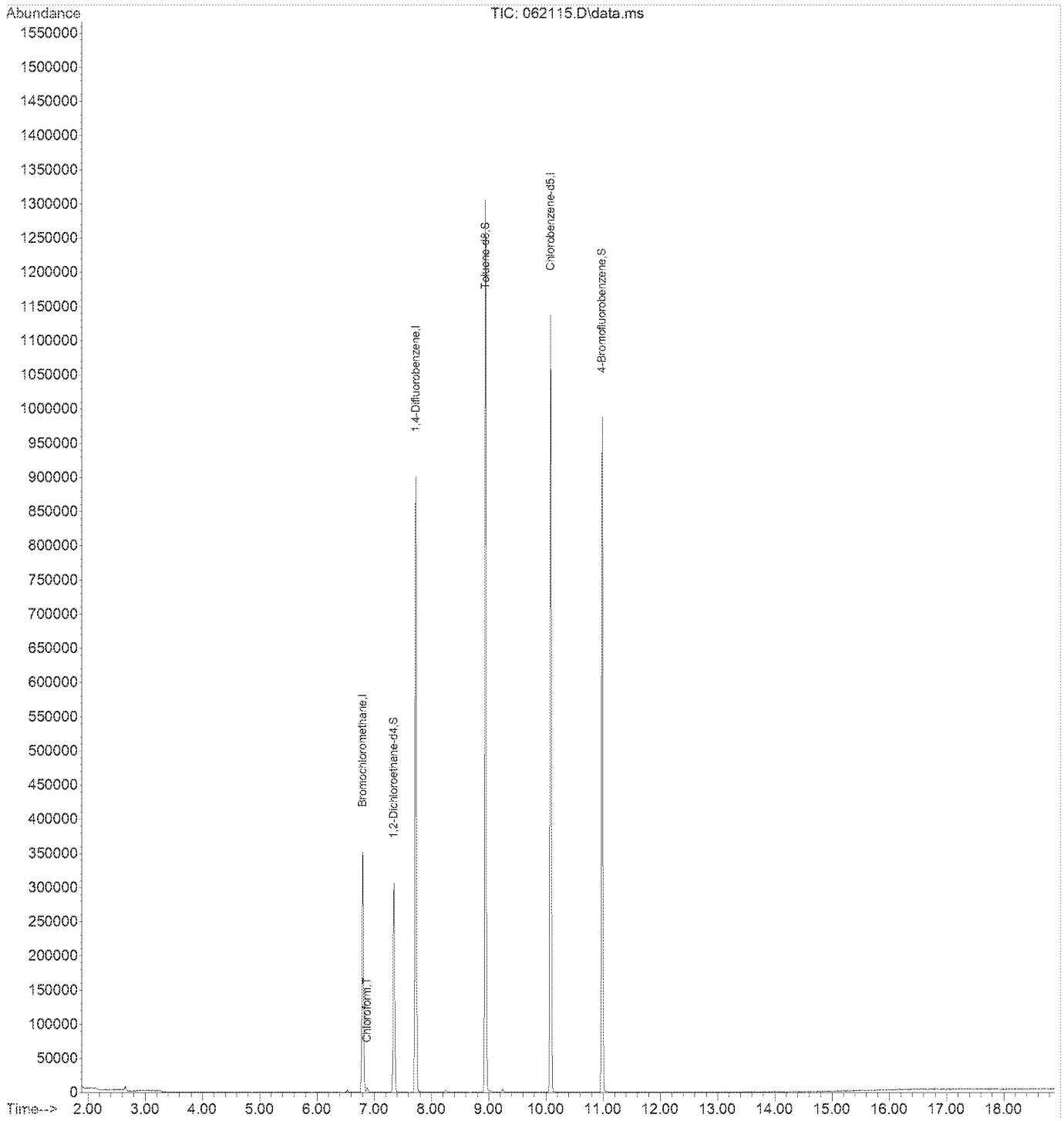
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.796	128	123769	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.727	114	765465	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	698359	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.344	65	187182	51.56 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 103.12%		
38) Toluene-d8	8.944	98	836949	49.56 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 99.12%		
49) 4-Bromofluorobenzene	10.982	95	294500	47.88 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 95.76%		
Target Compounds					Qvalue
19) Chloroform	6.876	83	5233	0.88 ug/l	99

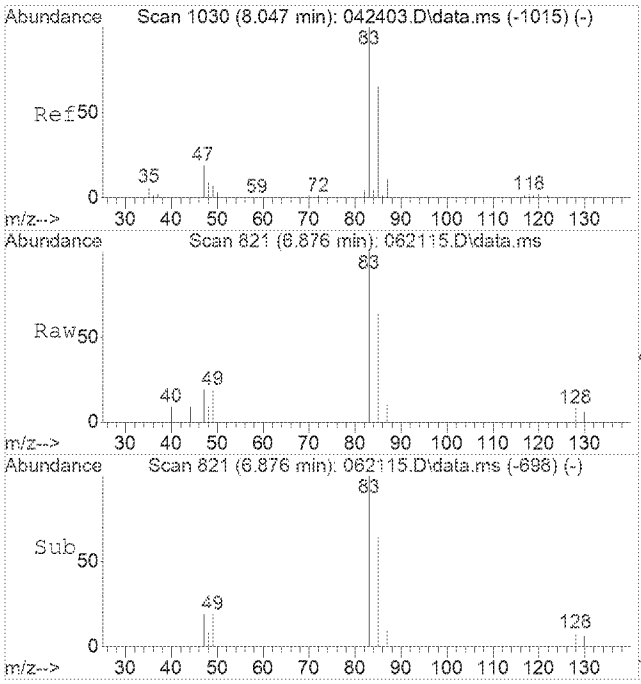
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062115.D
Acq On : 21 Jun 2011 5:27 pm
Operator : jml
Sample : 1106041-007
Misc : 1
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 22 11:10:40 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

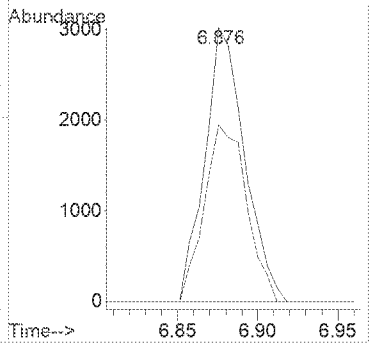




#19
Chloroform
Concen: 0.88 ug/l
RT: 6.876 min Scan# 821
Delta R.T. -0.000 min
Lab File: 062115.D
Acq: 21 Jun 2011 5:27 pm

Tgt Ion: 83 Resp: 5233

Ion	Ratio	Lower	Upper
83	100		
85	64.5	45.0	85.0



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062115.D
Acq On : 21 Jun 2011 5:27 pm
Operator : jml
Sample : 1106041-007
Misc : 1
ALS Vial : 18 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\2\Methods\I50614L.M
Title : VOA Standards for 6 point calibration

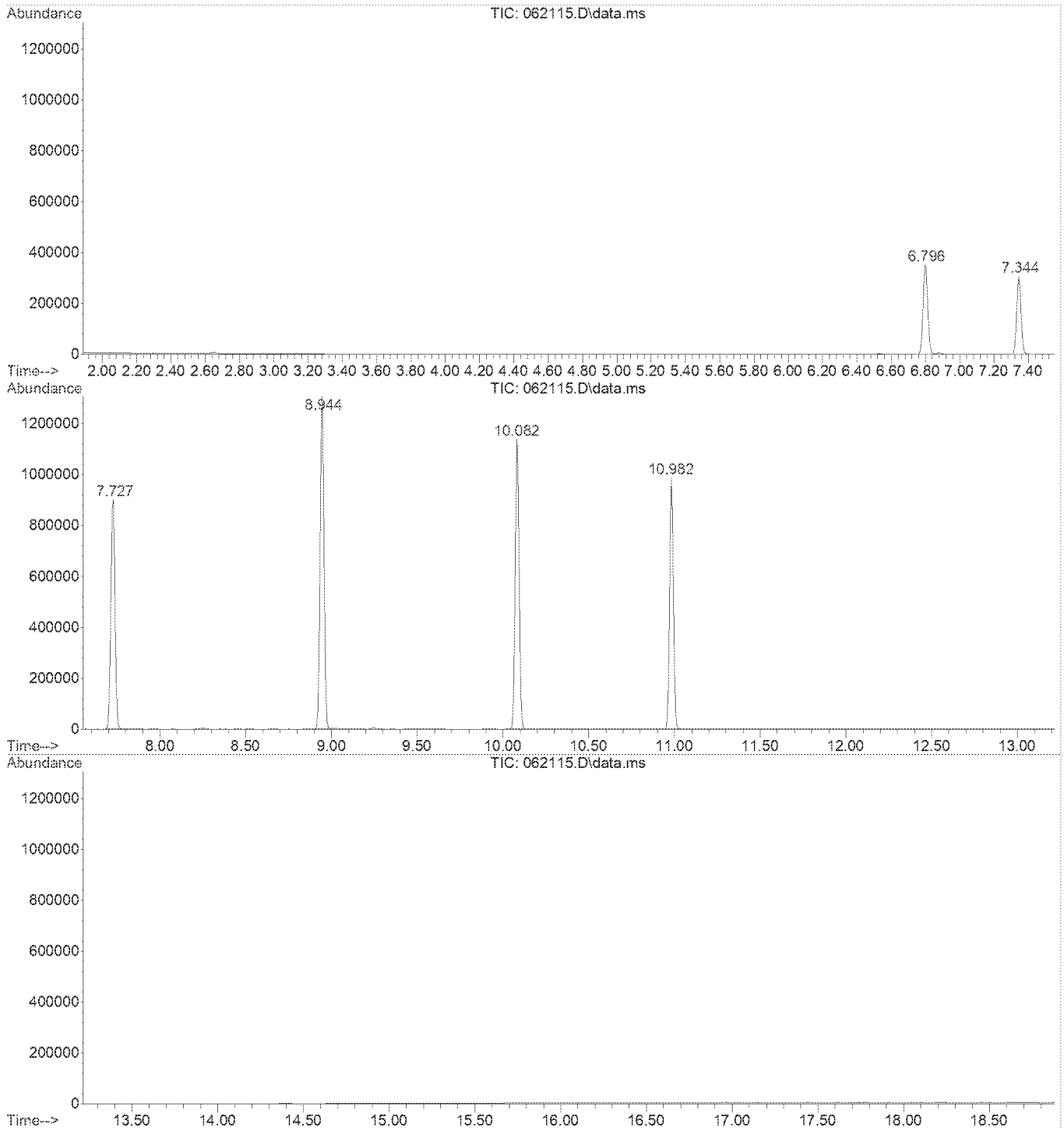
Signal : TIC: 062115.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.796	799	808	817	rBV	351550	673349	32.72%	8.352%
2	7.344	890	898	913	rVB	306046	544629	26.47%	6.755%
3	7.727	953	961	974	rBV	899921	1506469	73.21%	18.685%
4	8.944	1154	1161	1169	rBV	1304568	2057782	100.00%	25.523%
5	10.082	1340	1348	1357	rBV	1136497	1786235	86.80%	22.155%
6	10.982	1489	1496	1506	rBV	986885	1493900	72.60%	18.529%

Sum of corrected areas: 8062364

LSC Report - Integrated Chromatogram

```
Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062115.D
Acq On    : 21 Jun 2011   5:27 pm
Operator  : jml
Sample    : 1106041-007
Misc      : 1
ALS Vial  : 18   Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title  : VOA  Standards for 6 point calibration

TIC Library    : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P
```



Tentatively Identified Compound (LSC) summary

```
Data Path : C:\msdchem\1\DATA\MS50621L.jml\\
Data File : 062115.D
Acq On    : 21 Jun 2011   5:27 pmm
Operator  : jml1
Sample    : 1106041-0077
Misc      : 11
ALS Vial  : 18   Sample Multiplier: 11

Quant Method : C:\msdchem\2\Methods\I50614L.MM
Quant Title  : VOA  Standards for 6 point calibrationn

TIC Library   : C:\Database\Nist98.l1
TIC Integration Parameters: LSCINT.PP

                                                  |--Internal Standard---|
TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062116.D
Acq On : 21 Jun 2011 5:56 pm
Operator : jml
Sample : 1106041-008
Misc : 1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 22 11:12:49 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.797	128	131993	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	807659	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	745697	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.344	65	196994	50.88 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 101.76%		
38) Toluene-d8	8.944	98	880066	48.80 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 97.60%		
49) 4-Bromofluorobenzene	10.982	95	303686	46.24 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 92.48%		

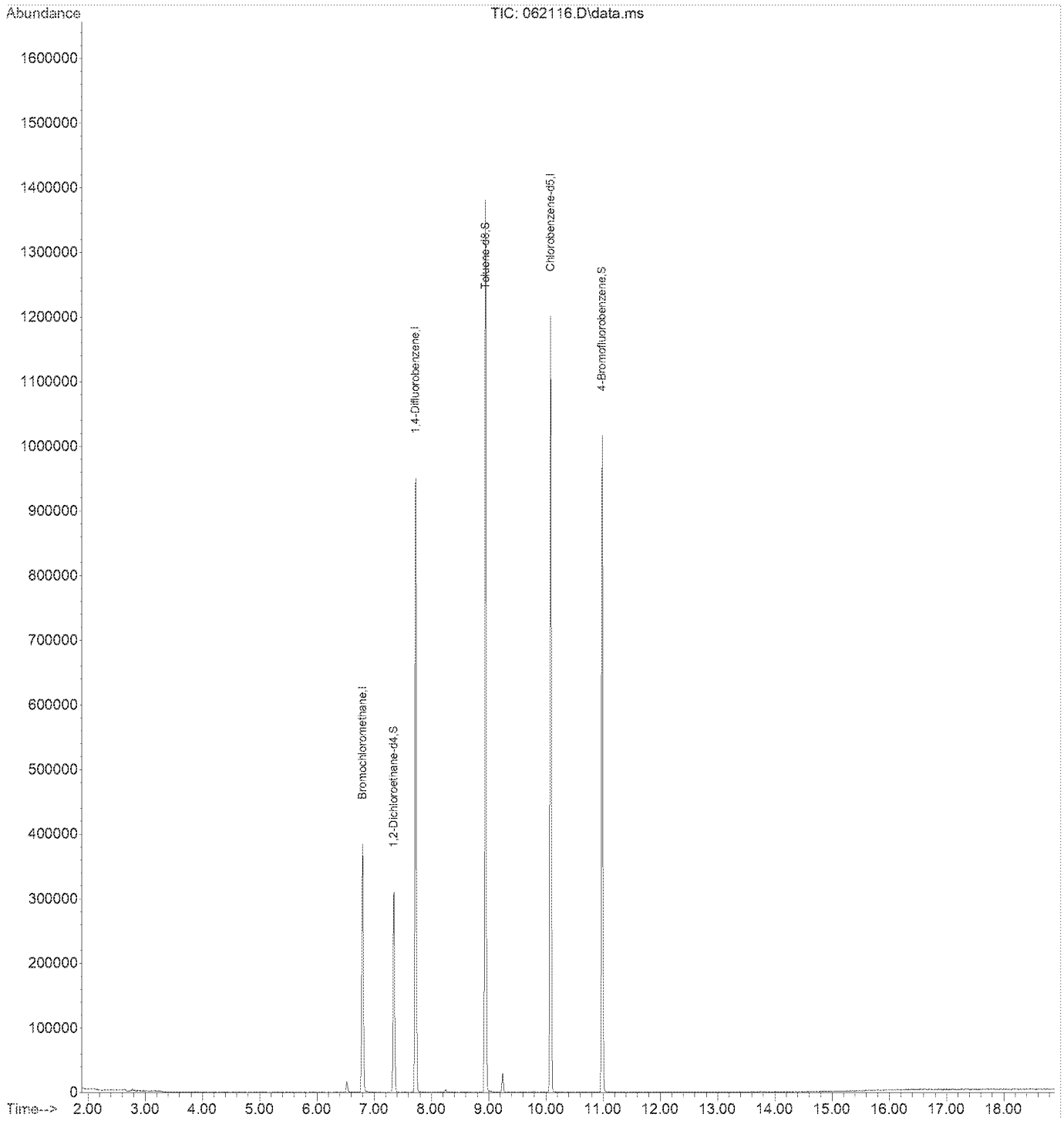
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062116.D
Acq On : 21 Jun 2011 5:56 pm
Operator : jml
Sample : 1106041-008
Misc : 1
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 22 11:12:49 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062116.D
Acq On : 21 Jun 2011 5:56 pm
Operator : jml
Sample : 1106041-008
Misc : 1
ALS Vial : 19 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\2\Methods\I50614L.M
Title : VOA Standards for 6 point calibration

Signal : TIC: 062116.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.523	757	763	774	rBV	16592	32554	1.50%	0.378%
2	6.797	800	808	817	rBV	383688	722696	33.23%	8.390%
3	7.344	889	898	911	rBV	309541	576907	26.53%	6.698%
4	7.721	952	960	971	rBV	950158	1593718	73.29%	18.503%
5	8.944	1154	1161	1171	rBV	1379601	2174682	100.00%	25.248%
6	9.242	1205	1210	1217	rBV	29480	47126	2.17%	0.547%
7	10.082	1341	1348	1361	rBV	1200477	1896203	87.19%	22.015%
8	10.982	1489	1496	1508	rBV	1015795	1569383	72.17%	18.221%

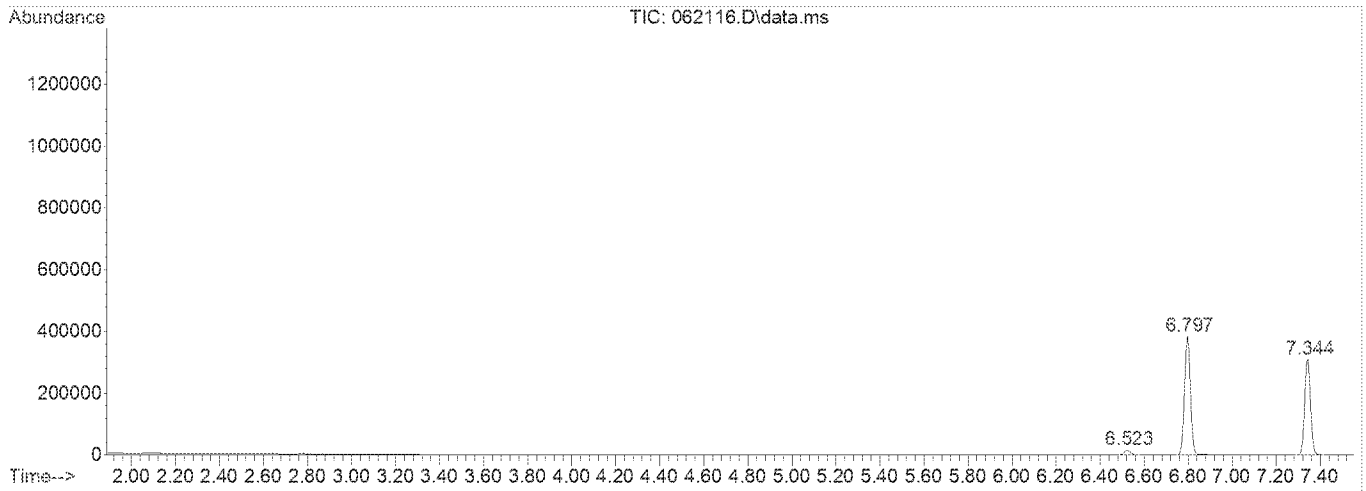
Sum of corrected areas: 8613269

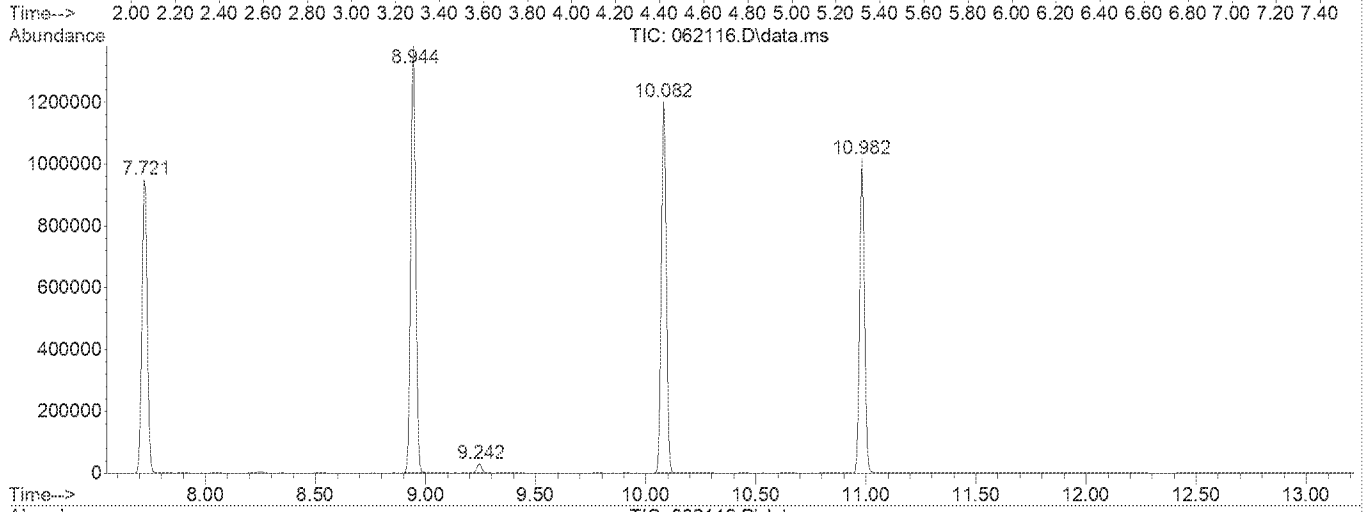
LSC Report - Integrated Chromatogram

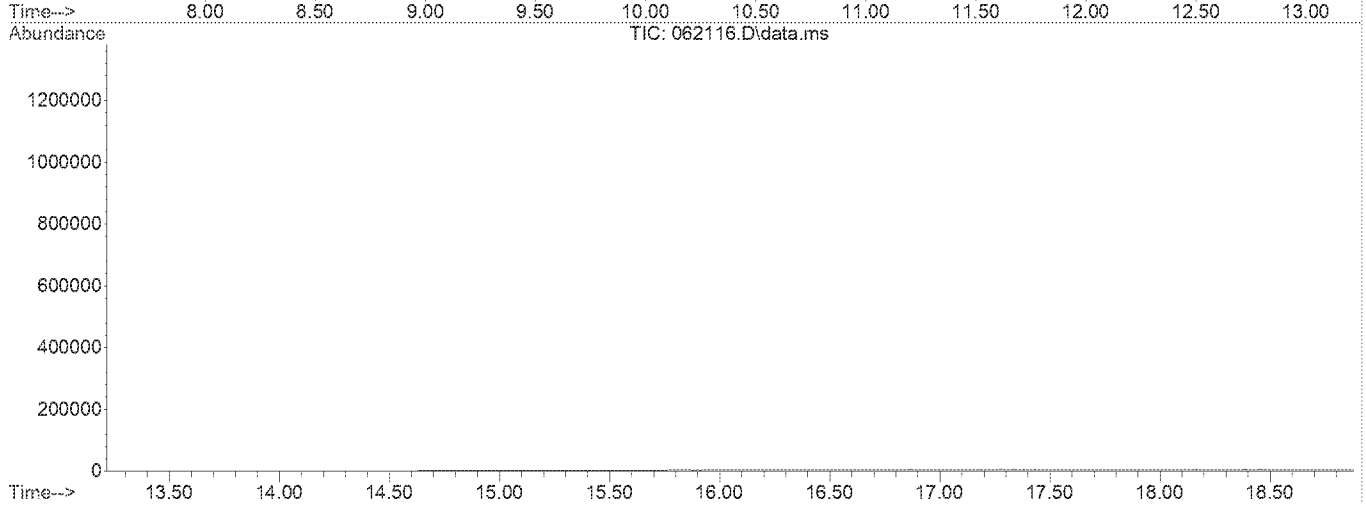
Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062116.D
Acq On : 21 Jun 2011 5:56 pm
Operator : jml
Sample : 1106041-008
Misc : 1
ALS Vial : 19 Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration

TIC Library : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P







Tentatively Identified Compound (LSC) summary

Data Path : C:\msdchem\1\DATA\MS50621L.jml\\
Data File : 062116.D
Acq On : 21 Jun 2011 5:56 pmm
Operator : jml1
Sample : 1106041-0088
Misc : 11
ALS Vial : 19 Sample Multiplier: 11

Quant Method : C:\msdchem\2\Methods\I50614L.MM
Quant Title : VOA Standards for 6 point calibrationn

TIC Library : C:\Database\Nist98.l1
TIC Integration Parameters: LSCINT.PP

TIC Top Hit name	RT	EstConc	Units	Response	Internal Standard #	RT	Resp	Conc

No Library Search Compounds Detected
****

Response Factor Report DEL5

Method Path : C:\msdchem\2\Methods\
Method File : I50614L.M
Title : VOA Standards for 6 point calibration
Last Update : Tue Jun 14 15:23:20 2011
Response Via : Initial Calibration

Calibration Files
20 =061406.D 10 =061409.D 50 =061408.D 100 =061404.D 200 =061403.D 300 =061402.D

		Compound	20	10	50	100	200	300	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Dichlorodifluo...	1.163	1.145	0.836	0.924	0.891	1.106	1.011	14.17
3)	T	Chloromethane	1.465	1.417	1.524	1.570	1.504	1.611	1.515	4.63
4)	T	Vinyl Chloride	1.395	1.327	1.504	1.593	1.531	1.671	1.504	8.39
5)	T	Bromomethane	0.858	0.892	0.846	0.894	0.853	0.902	0.874	2.79
6)	T	Chloroethane	0.915	0.871	0.940	0.996	0.967	0.978	0.944	4.89
7)	T	Trichlorofluor...	1.779	1.738	1.970	1.899	1.760	1.915	1.843	5.24
8)	M	1,1-Dichloroet...	1.169	1.107	1.286	1.376	1.321	1.422	1.280	9.46
9)	T	1,1,2-Trichlor...	1.135	1.126	1.347	1.435	1.389	1.520	1.325	12.18
10)	T	Acetone	0.204	0.199	0.225	0.219	0.210	0.239	0.216	6.73
11)	T	Carbon Disulfide	3.814	3.744	4.016	4.282	4.142	4.501	4.083	7.01
12)	T	Methyl Acetate	0.567	0.546	0.640	0.649	0.646	0.672	0.620	8.18
13)	T	Methylene Chlo...	1.483	1.456	1.518	1.546	1.492	1.528	1.504	2.18
14)	T	trans-1,2-Dich...	1.516	1.446	1.581	1.653	1.584	1.664	1.574	5.26
15)	T	Methyl tert-Bu...	3.287	3.000	3.565	3.714	3.705	3.764	3.506	8.63
16)	T	1,1-Dichloroet...	2.291	2.165	2.376	2.474	2.384	2.478	2.361	5.02
17)	T	cis-1,2-Dichlo...	1.631	1.544	1.716	1.775	1.734	1.788	1.698	5.51
18)	T	2-Butanone (MEK)	0.338	0.349	0.381	0.385	0.390	0.417	0.377	7.61
19)	T	Chloroform	2.339	2.248	2.418	2.471	2.406	2.476	2.393	3.63
20)	S	1,2-Dichloroet...	1.458	1.422	1.474	1.471	1.470	1.506	1.467	1.85
21)	T	1,2-Dichloroet...	1.494	1.474	1.544	1.573	1.535	1.581	1.533	2.78
22)	I	1,4-Difluorobenzene	----------ISTD----------							
23)	T	1,1,1-Trichlor...	0.308	0.300	0.326	0.346	0.335	0.348	0.327	6.06
24)	T	Cyclohexane	0.297	0.288	0.357	0.382	0.370	0.400	0.349	13.12
25)	T	Carbon Tetrach...	0.249	0.244	0.281	0.305	0.296	0.311	0.281	10.23
26)	M	Benzene	0.992	0.974	1.017	1.045	1.002	1.022	1.009	2.45
27)	M	Trichloroethene	0.306	0.288	0.311	0.324	0.314	0.323	0.311	4.29
28)	T	Methylcyclohexane	0.359	0.356	0.427	0.452	0.440	0.470	0.418	11.59
29)	T	1,2-Dichloropr...	0.227	0.219	0.230	0.233	0.228	0.231	0.228	2.10
30)	T	Bromodichlorom...	0.267	0.262	0.279	0.289	0.283	0.286	0.278	3.95
31)	T	cis-1,3-Dichlo...	0.329	0.311	0.358	0.369	0.366	0.371	0.351	7.05
32)	T	trans-1,3-Dich...	0.297	0.281	0.320	0.335	0.332	0.335	0.317	7.19
33)	T	1,1,2-Trichlor...	0.199	0.192	0.207	0.210	0.206	0.207	0.204	3.29
34)	T	Dibromochlorom...	0.221	0.208	0.237	0.248	0.248	0.250	0.235	7.34
35)	T	Bromoform	0.151	0.141	0.170	0.182	0.187	0.188	0.170	11.57
36)	I	Chlorobenzene-d5	----------ISTD----------							
37)	T	4-Methyl-2-Pen...	0.130	0.119	0.140	0.147	0.147	0.151	0.139	8.69
38)	S	Toluene-d8	1.207	1.210	1.215	1.217	1.201	1.205	1.209	0.51
39)	M	Toluene	1.209	1.164	1.257	1.280	1.227	1.238	1.229	3.27
40)	T	Tetrachloroethene	0.297	0.278	0.317	0.329	0.316	0.332	0.311	6.57
41)	T	2-Hexanone	0.079	0.072	0.090	0.096	0.097	0.100	0.089	12.60
42)	T	1,2-Dibromoeth...	0.219	0.210	0.224	0.228	0.225	0.226	0.222	2.99
43)	M	Chlorobenzene	0.866	0.859	0.896	0.910	0.878	0.884	0.882	2.15
44)	T	Ethylbenzene	0.467	0.441	0.495	0.509	0.494	0.504	0.485	5.34
45)	T	m/p-Xylene	0.591	0.557	0.615	0.629	0.603	0.603	0.599	4.13
46)	T	o-Xylene	0.570	0.530	0.603	0.612	0.593	0.592	0.583	5.05
47)	T	Xylenes (Total)	0.570	0.530	0.603	0.612	0.593	0.592	0.583	5.05
48)	T	Styrene	0.916	0.863	0.994	1.027	0.995	0.990	0.964	6.39
49)	S	4-Bromofluorob...	0.433	0.435	0.443	0.442	0.444	0.445	0.440	1.17
50)	T	Isopropylbenze...	1.328	1.231	1.435	1.492	1.444	1.468	1.400	7.14
51)	T	1,1,2,2-Tetrac...	0.237	0.230	0.252	0.253	0.251	0.251	0.246	4.00
52)	T	1,3-Dichlorobe...	0.725	0.680	0.786	0.817	0.814	0.820	0.774	7.53
53)	T	1,4-Dichlorobe...	0.743	0.696	0.801	0.832	0.829	0.834	0.789	7.27
54)	T	1,2-Dichlorobe...	0.691	0.649	0.742	0.771	0.768	0.768	0.731	6.93
55)	T	1,2-Dibromo-3-...	0.032	0.030	0.038	0.041	0.042	0.043	0.038	15.17
56)	T	1,2,4-Trichlor...	0.439	0.350	0.556	0.629	0.652	0.655	0.547	23.10

(#) = Out of Range

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061409.D
Acq On : 14 Jun 2011 2:56 pm
Operator : jml
Sample : VSTD010
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 14 15:15:43 2011
Quant Method : C:\msdchem\2\Methods\I50614L+.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 14:45:04 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.797	128	142480	50.00 ug/l	0.00
23) 1,4-Difluorobenzene	7.721	114	857691	50.00 ug/l	0.00
38) Chlorobenzene-d5	10.082	117	767033	50.00 ug/l	0.00
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	7.344	65	202576	48.20 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 96.40%		
40) Toluene-d8	8.944	98	928114	50.02 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.04%		
51) 4-Bromofluorobenzene	10.982	95	333609	49.36 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 98.72%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.990	85	32627	12.18 ug/l	99
3) Chloromethane	2.240	50	40372	9.31 ug/l	100
4) Vinyl Chloride	2.392	62	37827	8.81 ug/l	96
5) Bromomethane	2.873	94	25422	10.32 ug/l	93
6) Chloroethane	3.031	64	24806	9.12 ug/l	97
7) Trichlorofluoromethane	3.432	101	49512	9.52 ug/l	95
8) 1,1-Dichloroethene	4.308	96	31559	8.67 ug/l	94
9) 1,1,2-Trichloro-1,2,2-...	4.333	101	32086	8.57 ug/l	98
10) Acetone	4.448	43	5672	9.05 ug/l	86
11) Carbon Disulfide	4.612	76	106686	9.16 ug/l	98
12) Methyl Acetate	4.953	43	15551	8.78 ug/l	99
13) Methylene Chloride	5.057	84	41503	9.66 ug/l	98
14) t-Butyl Alcohol (TBA)	5.270	59	1955	10.16 ug/l #	72
15) trans-1,2-Dichloroethene	5.416	96	41212	9.15 ug/l	97
16) Methyl tert-Butyl Ethe...	5.422	73	85484	8.51 ug/l	99
17) 1,1-Dichloroethane	5.927	63	61705	9.11 ug/l	93
18) cis-1,2-Dichloroethene	6.559	96	43997	9.03 ug/l	98
19) 2-Butanone (MEK)	6.590	43	9945	9.20 ug/l	91
20) Chloroform	6.876	83	64056	9.37 ug/l	98
22) 1,2-Dichloroethane (EDC)	7.411	62	41995	9.61 ug/l	99
24) 1,1,1-Trichloroethane	7.046	97	51546	9.22 ug/l	98
25) Cyclohexane	7.089	56	49478	8.36 ug/l	99
26) Carbon Tetrachloride	7.198	117	41778	8.72 ug/l	98
27) Benzene	7.393	78	167063	9.66 ug/l	98
28) t-Amyl methyl ether (T...	7.478	73	85826	8.69 ug/l	99
29) Trichloroethene	7.952	130	49390	9.26 ug/l	98
30) Methylcyclohexane	8.111	83	61152	8.65 ug/l	94
31) 1,2-Dichloropropane	8.147	63	37617	9.64 ug/l	95
32) Bromodichloromethane	8.372	83	44898	9.47 ug/l	99
33) cis-1,3-Dichloropropene	8.731	75	53396	8.89 ug/l	98
34) trans-1,3-Dichloropropene	9.163	75	48194	8.86 ug/l	98
35) 1,1,2-Trichloroethane	9.315	97	33006	9.43 ug/l	93
36) Dibromochloromethane	9.638	129	35708	8.86 ug/l	97
37) Bromoform	10.751	173	24270	8.32 ug/l	96
39) 4-Methyl-2-Pentanone (...	8.841	43	18330	8.59 ug/l	100
41) Toluene	8.999	91	178532	9.44 ug/l	99
42) Tetrachloroethene	9.431	164	42645	8.90 ug/l	93
43) 2-Hexanone	9.492	43	11033	8.07 ug/l	100
44) 1,2-Dibromoethane (EDB)	9.735	107	32202	9.46 ug/l	92
45) Chlorobenzene	10.106	112	131738	9.72 ug/l	99
46) Ethylbenzene	10.173	106	67726	9.11 ug/l	98
47) m/p-Xylene	10.258	106	170805	18.55 ug/l	97
48) o-Xylene	10.574	106	81367	9.09 ug/l	99
49) Xylenes (Total)	10.574	106	81367	9.09 ug/l	99
50) Styrene	10.580	104	132425	8.98 ug/l	96

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061409.D
Acq On : 14 Jun 2011 2:56 pm
Operator : jml
Sample : VSTD010
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 14 15:15:43 2011
Quant Method : C:\msdchem\2\Methods\I50614L+.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 14:45:04 2011
Response via : Initial Calibration

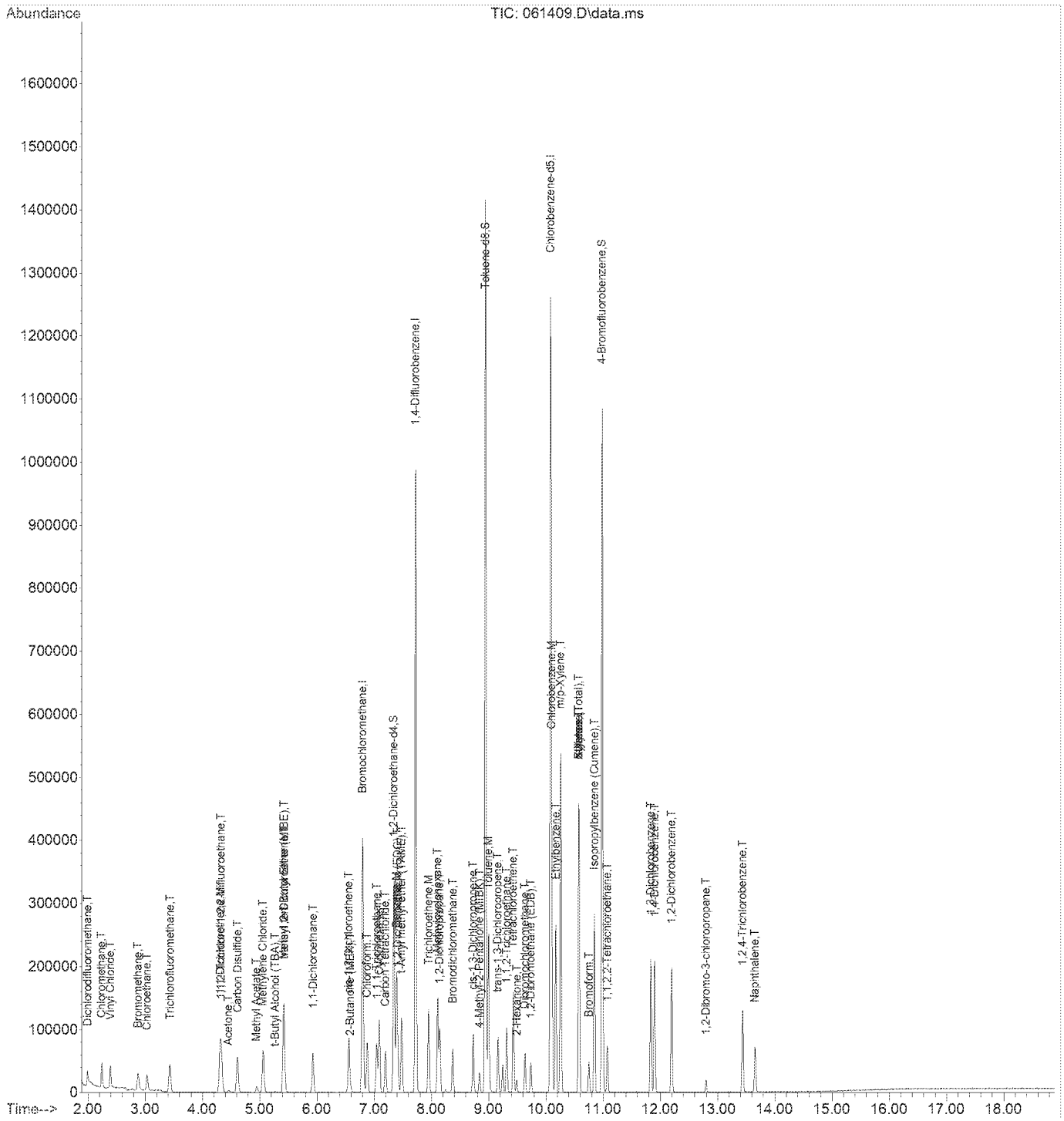
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) Isopropylbenzene (Cumene)	10.848	105	188903	8.81 ug/l	98
53) 1,1,2,2-Tetrachloroethane	11.073	83	35237	9.36 ug/l	96
54) 1,3-Dichlorobenzene	11.834	146	104302	8.76 ug/l	98
55) 1,4-Dichlorobenzene	11.901	146	106769	8.83 ug/l	99
56) 1,2-Dichlorobenzene	12.199	146	99541	8.83 ug/l	99
57) 1,2-Dibromo-3-chloropr...	12.795	75	4565	7.88 ug/l #	81
58) 1,2,4-Trichlorobenzene	13.434	180	53752	6.36 ug/l	98
59) Naphthalene	13.653	128	69316	12.53 ug/l	100

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061409.D
Acq On : 14 Jun 2011 2:56 pm
Operator : jml
Sample : VSTD010
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 14 15:15:43 2011
Quant Method : C:\msdchem\2\Methods\I50614L+.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 14:45:04 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061406.D
Acq On : 14 Jun 2011 1:18 pm
Operator : jml
Sample : VSTD020
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 13:48:08 2011
Quant Method : C:\msdchem\2\Methods\I50401L+.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 13:47:59 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.797	128	142122	50.00 ug/l	0.00
23) 1,4-Difluorobenzene	7.727	114	877725	50.00 ug/l	0.00
38) Chlorobenzene-d5	10.082	117	785022	50.00 ug/l	0.00
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	7.344	65	207217	49.26 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 98.52%		
40) Toluene-d8	8.944	98	947459	49.83 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 99.66%		
51) 4-Bromofluorobenzene	10.982	95	339789	48.99 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 97.98%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.997	85	66096	19.60 ug/l	99
3) Chloromethane	2.240	50	83294	18.50 ug/l	98
4) Vinyl Chloride	2.392	62	79301	17.64 ug/l	98
5) Bromomethane	2.873	94	48775	18.18 ug/l	98
6) Chloroethane	3.031	64	51991	18.66 ug/l	98
7) Trichlorofluoromethane	3.432	101	101145	18.11 ug/l	97
8) 1,1-Dichloroethene	4.308	96	66440	17.10 ug/l	97
9) 1,1,2-Trichloro-1,2,2-...	4.333	101	64508	16.18 ug/l	98
10) Acetone	4.454	43	11623	17.90 ug/l	98
11) Carbon Disulfide	4.613	76	216820	17.69 ug/l	98
12) Methyl Acetate	4.947	43	32255	17.87 ug/l	97
13) Methylene Chloride	5.063	84	84307	18.89 ug/l	96
14) t-Butyl Alcohol (TBA)	5.276	59	3360	17.26 ug/l #	80
15) trans-1,2-Dichloroethene	5.416	96	86191	18.37 ug/l	99
16) Methyl tert-Butyl Ethe...	5.428	73	186859	17.74 ug/l	99
17) 1,1-Dichloroethane	5.927	63	130215	18.45 ug/l	99
18) cis-1,2-Dichloroethene	6.559	96	92737	18.15 ug/l	97
19) 2-Butanone (MEK)	6.590	43	19232	17.27 ug/l	97
20) Chloroform	6.882	83	132961	18.60 ug/l	97
22) 1,2-Dichloroethane (EDC)	7.411	62	84919	18.74 ug/l	99
24) 1,1,1-Trichloroethane	7.046	97	107998	18.35 ug/l	98
25) Cyclohexane	7.089	56	104352	16.06 ug/l	98
26) Carbon Tetrachloride	7.198	117	87390	17.77 ug/l	95
27) Benzene	7.393	78	348416	18.94 ug/l	98
28) t-Amyl methyl ether (T...	7.478	73	188026	17.92 ug/l	98
29) Trichloroethene	7.952	130	107365	18.92 ug/l	98
30) Methylcyclohexane	8.111	83	126160	16.56 ug/l	96
31) 1,2-Dichloropropane	8.147	63	79681	19.31 ug/l	98
32) Bromodichloromethane	8.372	83	93705	18.82 ug/l	99
33) cis-1,3-Dichloropropene	8.731	75	115533	18.25 ug/l	96
34) trans-1,3-Dichloropropene	9.163	75	104215	18.69 ug/l	98
35) 1,1,2-Trichloroethane	9.315	97	69883	18.98 ug/l	98
36) Dibromochloromethane	9.638	129	77633	18.85 ug/l	100
37) Bromoform	10.751	173	53013	18.27 ug/l	98
39) 4-Methyl-2-Pentanone (...	8.841	43	40765	17.91 ug/l	97
41) Toluene	8.999	91	379792	18.84 ug/l	100
42) Tetrachloroethene	9.431	164	93294	18.46 ug/l	98
43) 2-Hexanone	9.485	43	24780	16.87 ug/l	97
44) 1,2-Dibromoethane (EDB)	9.735	107	68705	19.19 ug/l	95
45) Chlorobenzene	10.106	112	271947	19.11 ug/l	100
46) Ethylbenzene	10.173	106	146523	18.50 ug/l	96
47) m/p-Xylene	10.258	106	370872	38.01 ug/l	99
48) o-Xylene	10.574	106	178950	18.73 ug/l	98
49) Xylenes (Total)	10.574	106	178950	18.73 ug/l	98
50) Styrene	10.581	104	287715	18.38 ug/l	98

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061406.D
Acq On : 14 Jun 2011 1:18 pm
Operator : jml
Sample : VSTD020
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 13:48:08 2011
Quant Method : C:\msdchem\2\Methods\I50401L+.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 13:47:59 2011
Response via : Initial Calibration

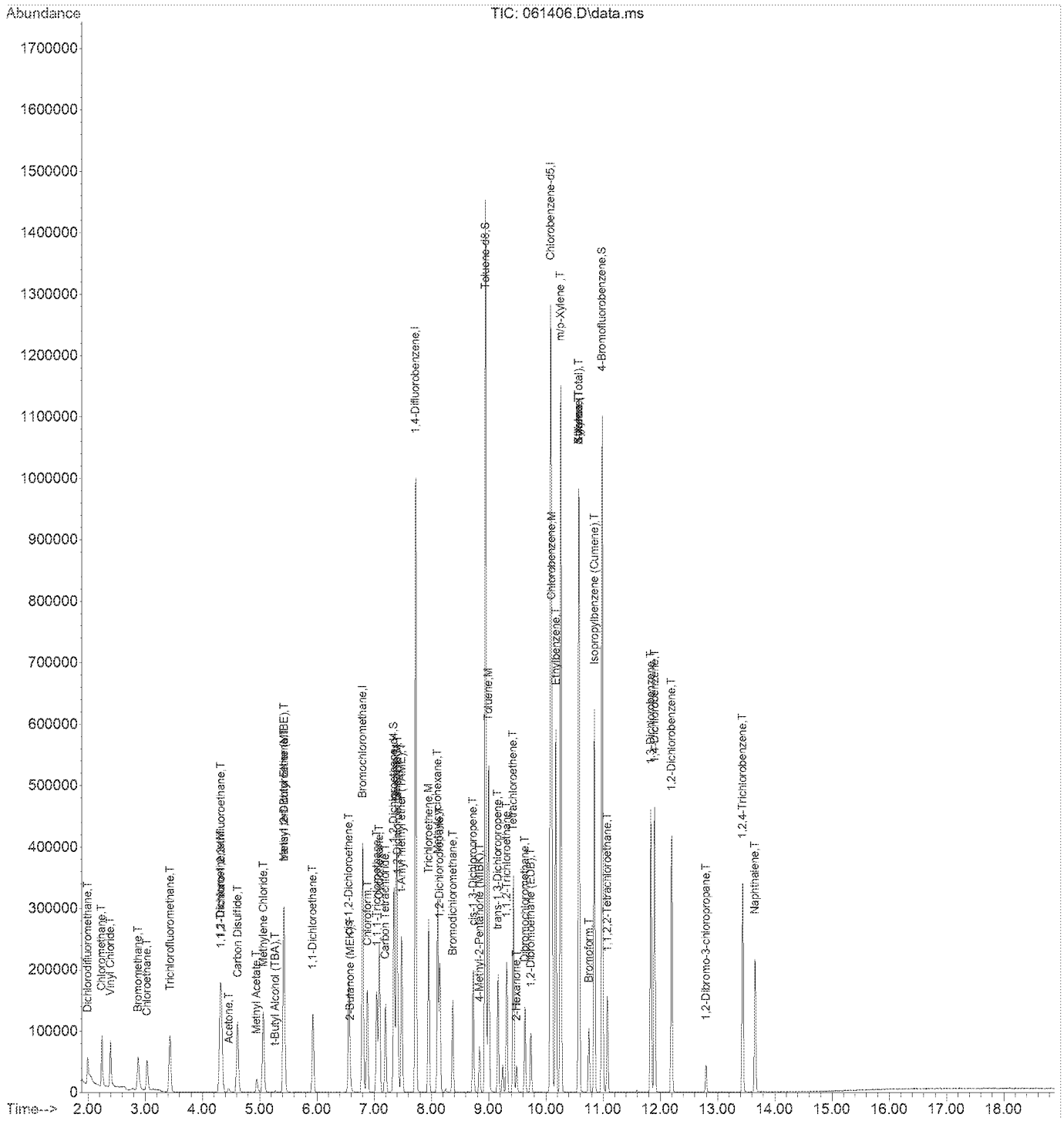
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) Isopropylbenzene (Cumene)	10.848	105	416994	18.08 ug/l	100
53) 1,1,2,2-Tetrachloroethane	11.073	83	74360	18.84 ug/l	100
54) 1,3-Dichlorobenzene	11.834	146	227694	17.98 ug/l	98
55) 1,4-Dichlorobenzene	11.901	146	233157	18.16 ug/l	99
56) 1,2-Dichlorobenzene	12.199	146	216911	18.25 ug/l	99
57) 1,2-Dibromo-3-chloropr...	12.801	75	9917	16.79 ug/l	92
58) 1,2,4-Trichlorobenzene	13.440	180	137830	15.32 ug/l	99
59) Naphthalene	13.653	128	204641	18.65 ug/l	100

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061406.D
Acq On : 14 Jun 2011 1:18 pm
Operator : jml
Sample : VSTD020
Misc : 1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 13:48:08 2011
Quant Method : C:\msdchem\2\Methods\I50401L+.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 13:47:59 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061408.D
Acq On : 14 Jun 2011 2:27 pm
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 22 11:45:27 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.796	128	143703	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	902236	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	809483	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.344	65	211867	50.26 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 100.52%		
38) Toluene-d8	8.944	98	983770	50.25 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.50%		
49) 4-Bromofluorobenzene	10.982	95	358518	50.29 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 100.58%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.997	85	120067	41.34 ug/l	100
3) Chloromethane	2.240	50	219027	50.29 ug/l	100
4) Vinyl Chloride	2.392	62	216067	50.00 ug/l	100
5) Bromomethane	2.873	94	121585	48.39 ug/l	100
6) Chloroethane	3.031	64	135036	49.76 ug/l	100
7) Trichlorofluoromethane	3.432	101	283166	53.45 ug/l	100
8) 1,1-Dichloroethene	4.308	96	185217	50.34 ug/l	100
9) 1,1,2-Trichloro-1,2,2-...	4.327	101	193530	50.82 ug/l	100
10) Acetone	4.460	43	32306	52.03 ug/l	100
11) Carbon Disulfide	4.612	76	577059	49.18 ug/l	100
12) Methyl Acetate	4.941	43	91938	51.60 ug/l	100
13) Methylene Chloride	5.057	84	218198	50.48 ug/l	100
14) trans-1,2-Dichloroethene	5.416	96	227214	50.22 ug/l	100
15) Methyl tert-Butyl Ethe...	5.422	73	512363	50.85 ug/l	100
16) 1,1-Dichloroethane	5.927	63	341445	50.31 ug/l	100
17) cis-1,2-Dichloroethene	6.559	96	246645	50.54 ug/l	100
18) 2-Butanone (MEK)	6.584	43	54679	50.51 ug/l	100
19) Chloroform	6.876	83	347484	50.52 ug/l	100
21) 1,2-Dichloroethane (EDC)	7.411	62	221832	50.33 ug/l	100
23) 1,1,1-Trichloroethane	7.046	97	293995	49.79 ug/l	100
24) Cyclohexane	7.088	56	321785	51.11 ug/l	100
25) Carbon Tetrachloride	7.198	117	253793	50.06 ug/l	100
26) Benzene	7.393	78	917163	50.40 ug/l	100
27) Trichloroethene	7.952	130	280315	49.95 ug/l	100
28) Methylcyclohexane	8.111	83	385443	51.15 ug/l	100
29) 1,2-Dichloropropane	8.147	63	207142	50.34 ug/l	100
30) Bromodichloromethane	8.372	83	252046	50.30 ug/l	100
31) cis-1,3-Dichloropropene	8.725	75	323428	51.10 ug/l	100
32) trans-1,3-Dichloropropene	9.163	75	288934	50.57 ug/l	100
33) 1,1,2-Trichloroethane	9.315	97	186994	50.87 ug/l	100
34) Dibromochloromethane	9.631	129	213566	50.27 ug/l	100
35) Bromoform	10.751	173	153724	50.11 ug/l	100
37) 4-Methyl-2-Pentanone (...	8.841	43	113729	50.53 ug/l	100
39) Toluene	8.999	91	1017382	51.13 ug/l	100
40) Tetrachloroethene	9.431	164	256464	50.87 ug/l	100
41) 2-Hexanone	9.485	43	73256	50.81 ug/l	100
42) 1,2-Dibromoethane (EDB)	9.735	107	180938	50.38 ug/l	100
43) Chlorobenzene	10.106	112	724908	50.76 ug/l	100
44) Ethylbenzene	10.173	106	400732	51.03 ug/l	100
45) m/p-Xylene	10.258	106	995751	102.60 ug/l	100
46) o-Xylene	10.574	106	487867	51.66 ug/l	100
47) Xylenes (Total)	10.574	106	487867	51.66 ug/l	100
48) Styrene	10.580	104	804786	51.55 ug/l	100
50) Isopropylbenzene (Cumene)	10.848	105	1161803	51.26 ug/l	100
51) 1,1,2,2-Tetrachloroethane	11.073	83	203930	51.29 ug/l	100

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061408.D
Acq On : 14 Jun 2011 2:27 pm
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 22 11:45:27 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

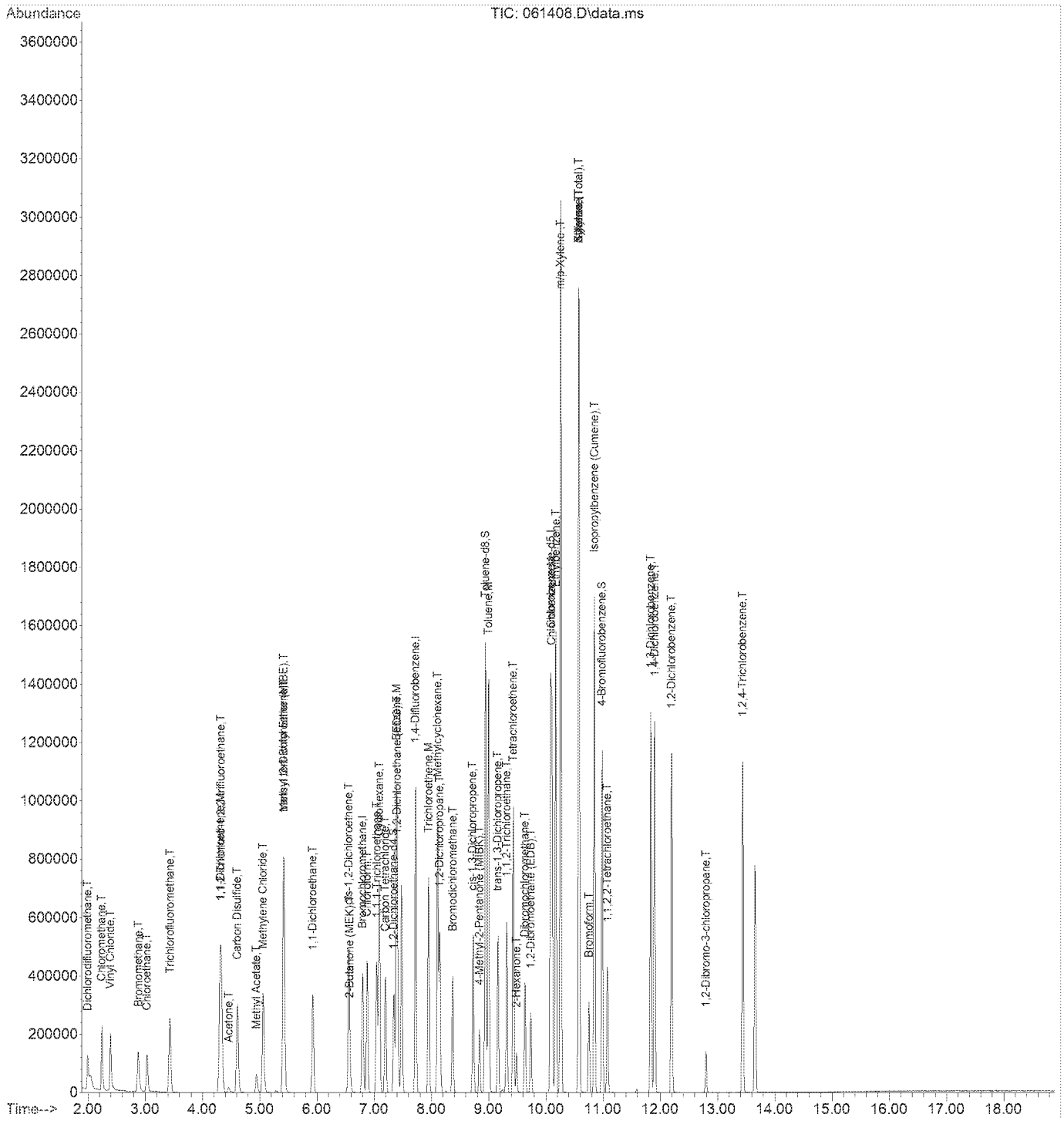
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) 1,3-Dichlorobenzene	11.834	146	636379	50.80 ug/l	100
53) 1,4-Dichlorobenzene	11.901	146	648343	50.75 ug/l	100
54) 1,2-Dichlorobenzene	12.199	146	600373	50.70 ug/l	100
55) 1,2-Dibromo-3-chloropr...	12.795	75	30379	50.01 ug/l	100
56) 1,2,4-Trichlorobenzene	13.440	180	450384	50.86 ug/l	100

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061408.D
Acq On : 14 Jun 2011 2:27 pm
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 22 11:45:27 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061404.D
Acq On : 14 Jun 2011 12:21 pm
Operator : jml
Sample : VSTD100
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 13:46:03 2011
Quant Method : C:\msdchem\2\Methods\I50401L+.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 13:45:56 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.802	128	136367	50.00 ug/l	0.00
23) 1,4-Difluorobenzene	7.727	114	861458	50.00 ug/l	0.00
38) Chlorobenzene-d5	10.081	117	777668	50.00 ug/l	0.00
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	7.344	65	200557	49.61 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 99.22%		
40) Toluene-d8	8.944	98	946536	50.30 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.60%		
51) 4-Bromofluorobenzene	10.982	95	343889	49.78 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 99.56%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.996	85	252053	70.97 ug/l	99
3) Chloromethane	2.246	50	428279	97.05 ug/l	99
4) Vinyl Chloride	2.392	62	434392	99.01 ug/l	99
5) Bromomethane	2.872	94	243909	89.87 ug/l	98
6) Chloroethane	3.037	64	271708	101.58 ug/l	95
7) Trichlorofluoromethane	3.432	101	517966	93.86 ug/l	100
8) 1,1-Dichloroethene	4.308	96	375298	98.08 ug/l	99
9) 1,1,2-Trichloro-1,2,2-...	4.332	101	391275	101.01 ug/l	95
10) Acetone	4.448	43	59664	91.30 ug/l	99
11) Carbon Disulfide	4.612	76	1167777	97.14 ug/l	99
12) Methyl Acetate	4.947	43	176982	100.58 ug/l	98
13) Methylene Chloride	5.063	84	421578	96.69 ug/l	99
14) t-Butyl Alcohol (TBA)	5.269	59	18958	97.71 ug/l #	95
15) trans-1,2-Dichloroethene	5.415	96	450938	97.73 ug/l	99
16) Methyl tert-Butyl Ethe...	5.428	73	1012991	97.61 ug/l	99
17) 1,1-Dichloroethane	5.932	63	674713	97.39 ug/l	99
18) cis-1,2-Dichloroethene	6.559	96	483997	96.17 ug/l	98
19) 2-Butanone (MEK)	6.583	43	105125	94.93 ug/l	95
20) Chloroform	6.882	83	673959	96.01 ug/l	100
22) 1,2-Dichloroethane (EDC)	7.411	62	429087	96.70 ug/l	98
24) 1,1,1-Trichloroethane	7.046	97	596678	102.36 ug/l	99
25) Cyclohexane	7.088	56	657816	101.18 ug/l	98
26) Carbon Tetrachloride	7.198	117	525490	110.77 ug/l	97
27) Benzene	7.393	78	1800270	97.33 ug/l	100
28) t-Amyl methyl ether (T...	7.478	73	1051514	99.99 ug/l	100
29) Trichloroethene	7.952	130	558044	98.21 ug/l	99
30) Methylcyclohexane	8.110	83	779198	102.33 ug/l	98
31) 1,2-Dichloropropane	8.147	63	401496	97.00 ug/l	99
32) Bromodichloromethane	8.372	83	497844	100.20 ug/l	100
33) cis-1,3-Dichloropropene	8.731	75	636128	100.39 ug/l	100
34) trans-1,3-Dichloropropene	9.163	75	577968	104.64 ug/l	99
35) 1,1,2-Trichloroethane	9.315	97	362665	98.42 ug/l	100
36) Dibromochloromethane	9.637	129	427851	105.46 ug/l	99
37) Bromoform	10.751	173	314219	112.54 ug/l	99
39) 4-Methyl-2-Pentanone (...	8.840	43	228038	97.69 ug/l	99
41) Toluene	8.999	91	1990502	97.28 ug/l	98
42) Tetrachloroethene	9.431	164	511380	100.73 ug/l	98
43) 2-Hexanone	9.485	43	149604	99.42 ug/l	99
44) 1,2-Dibromoethane (EDB)	9.735	107	355061	97.47 ug/l	99
45) Chlorobenzene	10.106	112	1415677	98.63 ug/l	100
46) Ethylbenzene	10.173	106	792064	99.13 ug/l	96
47) m/p-Xylene	10.258	106	1957477	199.01 ug/l	99
48) o-Xylene	10.574	106	951735	98.62 ug/l	98
49) Xylenes (Total)	10.574	106	951735	98.62 ug/l	98
50) Styrene	10.580	104	1597223	100.90 ug/l	99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061404.D
Acq On : 14 Jun 2011 12:21 pm
Operator : jml
Sample : VSTD100
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 13:46:03 2011
Quant Method : C:\msdchem\2\Methods\I50401L+.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 13:45:56 2011
Response via : Initial Calibration

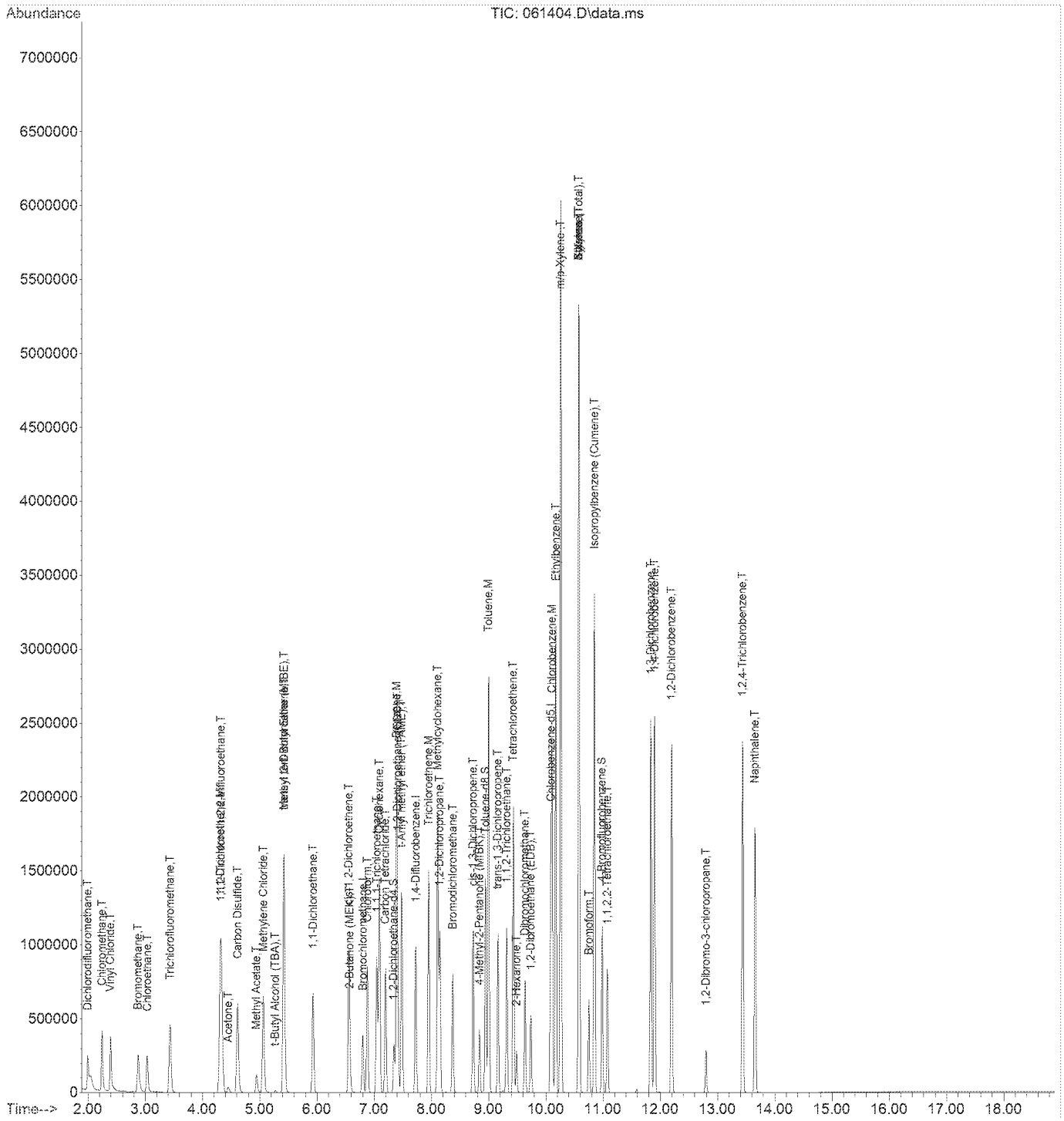
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) Isopropylbenzene (Cumene)	10.848	105	2320777	99.45 ug/l	99
53) 1,1,2,2-Tetrachloroethane	11.073	83	392928	98.43 ug/l	100
54) 1,3-Dichlorobenzene	11.834	146	1270517	99.57 ug/l	99
55) 1,4-Dichlorobenzene	11.900	146	1293758	100.24 ug/l	97
56) 1,2-Dichlorobenzene	12.199	146	1199403	100.59 ug/l	97
57) 1,2-Dibromo-3-chloropr...	12.795	75	63081	107.54 ug/l	98
58) 1,2,4-Trichlorobenzene	13.440	180	977971	109.03 ug/l	98
59) Naphthalene	13.653	128	1675517	97.60 ug/l	100

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061404.D
Acq On : 14 Jun 2011 12:21 pm
Operator : jml
Sample : VSTD100
Misc : 1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 13:46:03 2011
Quant Method : C:\msdchem\2\Methods\I50401L+.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 13:45:56 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061403.D
Acq On : 14 Jun 2011 11:52 am
Operator : jml
Sample : VSTD200
Misc : 1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 13:45:36 2011
Quant Method : C:\msdchem\2\Methods\I50401L+.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 13:45:23 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.803	128	142223	50.00 ug/l	0.00
23) 1,4-Difluorobenzene	7.727	114	901689	50.00 ug/l	0.00
38) Chlorobenzene-d5	10.082	117	815386	50.00 ug/l	0.00
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	7.344	65	209027	49.60 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 99.20%		
40) Toluene-d8	8.944	98	979267	49.54 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 99.08%		
51) 4-Bromofluorobenzene	10.982	95	362268	49.89 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 99.78%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.997	85	506918	127.24 ug/l	99
3) Chloromethane	2.246	50	855626	184.34 ug/l	100
4) Vinyl Chloride	2.398	62	871094	189.70 ug/l	100
5) Bromomethane	2.879	94	485538	166.41 ug/l	97
6) Chloroethane	3.037	64	549983	197.22 ug/l	94
7) Trichlorofluoromethane	3.432	101	1000985	171.54 ug/l	100
8) 1,1-Dichloroethene	4.308	96	751734	186.28 ug/l	99
9) 1,1,2-Trichloro-1,2,2-...	4.333	101	789972	193.95 ug/l	98
10) Acetone	4.454	43	119717	171.60 ug/l	100
11) Carbon Disulfide	4.613	76	2356347	186.34 ug/l	100
12) Methyl Acetate	4.947	43	367593	199.86 ug/l	99
13) Methylene Chloride	5.063	84	848682	185.26 ug/l	99
14) t-Butyl Alcohol (TBA)	5.282	59	39805	193.75 ug/l #	95
15) trans-1,2-Dichloroethene	5.416	96	900938	185.43 ug/l	99
16) Methyl tert-Butyl Ethe...	5.428	73	2108003	193.80 ug/l	99
17) 1,1-Dichloroethane	5.933	63	1356051	185.85 ug/l	100
18) cis-1,2-Dichloroethene	6.559	96	986261	186.22 ug/l	99
19) 2-Butanone (MEK)	6.584	43	221987	189.61 ug/l	95
20) Chloroform	6.882	83	1368642	185.18 ug/l	99
22) 1,2-Dichloroethane (EDC)	7.411	62	873302	187.59 ug/l	100
24) 1,1,1-Trichloroethane	7.046	97	1207371	196.59 ug/l	99
25) Cyclohexane	7.089	56	1332994	193.57 ug/l	98
26) Carbon Tetrachloride	7.198	117	1068582	215.17 ug/l	99
27) Benzene	7.393	78	3613025	184.55 ug/l	100
28) t-Amyl methyl ether (T...	7.478	73	2193680	197.75 ug/l	100
29) Trichloroethene	7.952	130	1133857	189.02 ug/l	98
30) Methylcyclohexane	8.111	83	1587730	196.90 ug/l	98
31) 1,2-Dichloropropane	8.147	63	823161	188.25 ug/l	100
32) Bromodichloromethane	8.372	83	1020465	194.43 ug/l	98
33) cis-1,3-Dichloropropene	8.731	75	1319709	197.30 ug/l	100
34) trans-1,3-Dichloropropene	9.163	75	1196594	206.02 ug/l	99
35) 1,1,2-Trichloroethane	9.315	97	743008	191.07 ug/l	99
36) Dibromochloromethane	9.638	129	894034	209.58 ug/l	99
37) Bromoform	10.751	173	673554	231.71 ug/l	99
39) 4-Methyl-2-Pentanone (...	8.841	43	478783	192.77 ug/l	97
41) Toluene	8.999	91	4001501	184.39 ug/l	98
42) Tetrachloroethene	9.431	164	1030678	191.83 ug/l	99
43) 2-Hexanone	9.486	43	315142	196.66 ug/l	100
44) 1,2-Dibromoethane (EDB)	9.735	107	733873	190.16 ug/l	99
45) Chlorobenzene	10.106	112	2864032	188.72 ug/l	100
46) Ethylbenzene	10.173	106	1611690	190.46 ug/l	96
47) m/p-Xylene	10.258	106	3930382	377.80 ug/l	98
48) o-Xylene	10.574	106	1932966	189.36 ug/l	97
49) Xylenes (Total)	10.574	106	1932966	189.36 ug/l	97
50) Styrene	10.581	104	3246029	193.83 ug/l	98

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061403.D
Acq On : 14 Jun 2011 11:52 am
Operator : jml
Sample : VSTD200
Misc : 1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 13:45:36 2011
Quant Method : C:\msdchem\2\Methods\I50401L+.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 13:45:23 2011
Response via : Initial Calibration

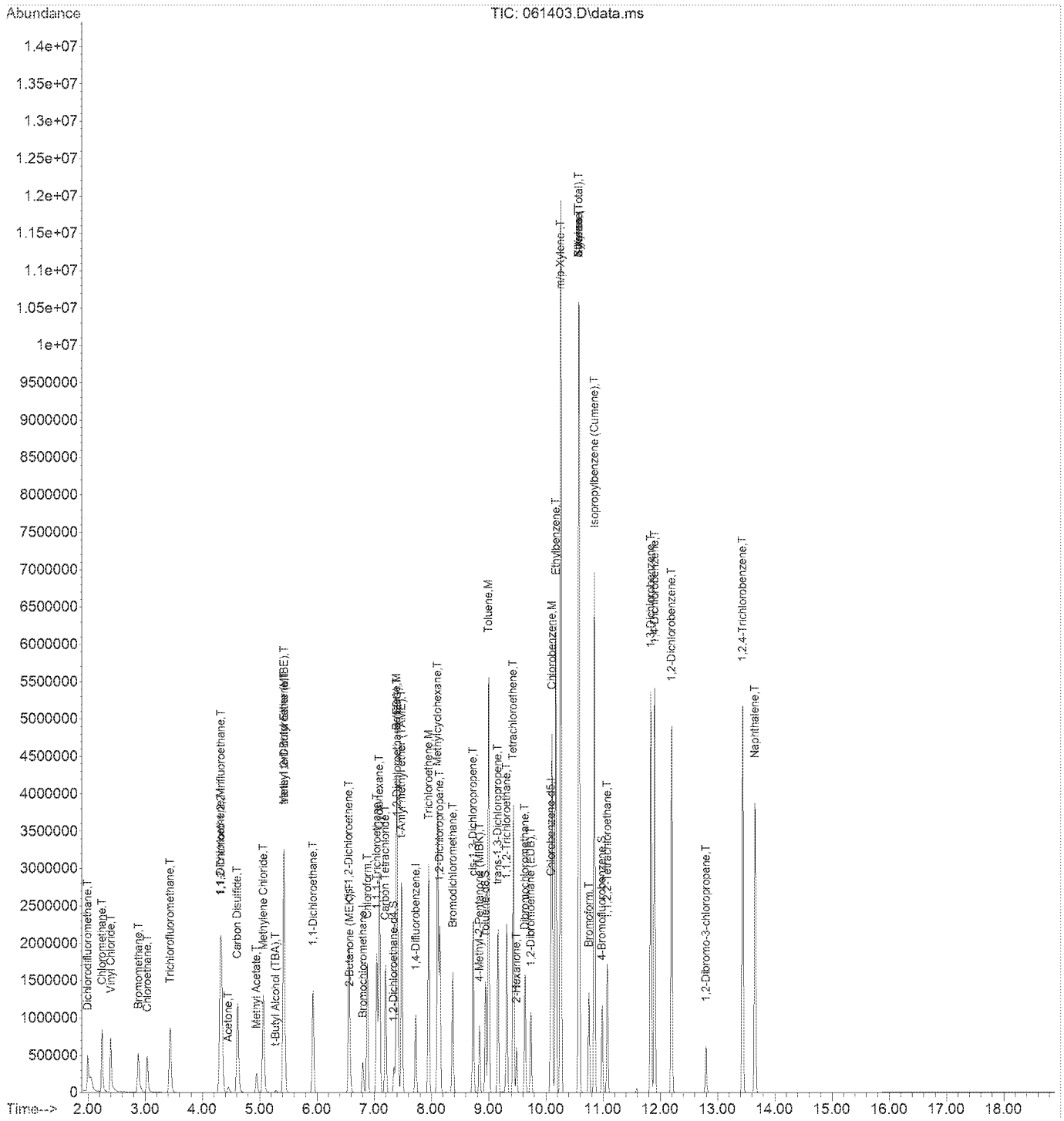
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) Isopropylbenzene (Cumene)	10.848	105	4710524	190.66 ug/l	99
53) 1,1,2,2-Tetrachloroethane	11.073	83	819525	194.44 ug/l	100
54) 1,3-Dichlorobenzene	11.834	146	2655946	197.42 ug/l	99
55) 1,4-Dichlorobenzene	11.901	146	2705218	199.14 ug/l	98
56) 1,2-Dichlorobenzene	12.199	146	2506157	199.92 ug/l	97
57) 1,2-Dibromo-3-chloropr...	12.795	75	138070	224.86 ug/l	97
58) 1,2,4-Trichlorobenzene	13.440	180	2128130	228.04 ug/l	99
59) Naphthalene	13.653	128	3711631	200.60 ug/l	100

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061403.D
Acq On : 14 Jun 2011 11:52 am
Operator : jml
Sample : VSTD200
Misc : 1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 13:45:36 2011
Quant Method : C:\msdchem\2\Methods\I50401L+.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 13:45:23 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061402.D
Acq On : 14 Jun 2011 11:24 am
Operator : jml
Sample : VSTD300
Misc : 1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 13:44:54 2011
Quant Method : C:\msdchem\2\Methods\I50401L+.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Wed Apr 27 09:35:13 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.802	128	146594	50.00 ug/l	0.00
23) 1,4-Difluorobenzene	7.721	114	940785	50.00 ug/l	0.00
38) Chlorobenzene-d5	10.081	117	854436	50.00 ug/l	0.00
System Monitoring Compounds					
21) 1,2-Dichloroethane-d4	7.344	65	220716	50.71 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 101.42%		
40) Toluene-d8	8.944	98	1029372	49.76 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 99.52%		
51) 4-Bromofluorobenzene	10.982	95	380237	49.86 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 99.72%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.990	85	972413	224.71 ug/l	100
3) Chloromethane	2.240	50	1416916	295.73 ug/l	99
4) Vinyl Chloride	2.392	62	1469839	311.69 ug/l	99
5) Bromomethane	2.879	94	793094	259.55 ug/l	97
6) Chloroethane	3.031	64	859939	298.80 ug/l	96
7) Trichlorofluoromethane	3.432	101	1684269	282.54 ug/l	100
8) 1,1-Dichloroethene	4.308	96	1250955	301.18 ug/l	98
9) 1,1,2-Trichloro-1,2,2-...	4.326	101	1336715	319.51 ug/l	96
10) Acetone	4.466	43	210070	293.62 ug/l	99
11) Carbon Disulfide	4.612	76	3958481	305.28 ug/l	100
12) Methyl Acetate	4.947	43	590837	317.47 ug/l	99
13) Methylene Chloride	5.056	84	1343758	284.75 ug/l	98
14) t-Butyl Alcohol (TBA)	5.324	59	65174	318.27 ug/l #	96
15) trans-1,2-Dichloroethene	5.415	96	1463778	292.78 ug/l	100
16) Methyl tert-Butyl Ethe...	5.421	73	3310375	296.86 ug/l	98
17) 1,1-Dichloroethane	5.926	63	2179526	289.96 ug/l	99
18) cis-1,2-Dichloroethene	6.559	96	1572717	288.21 ug/l	99
19) 2-Butanone (MEK)	6.590	43	366498	305.53 ug/l	94
20) Chloroform	6.875	83	2177874	285.95 ug/l	99
22) 1,2-Dichloroethane (EDC)	7.411	62	1390562	290.56 ug/l	99
24) 1,1,1-Trichloroethane	7.046	97	1966271	309.07 ug/l	99
25) Cyclohexane	7.088	56	2256098	314.38 ug/l	100
26) Carbon Tetrachloride	7.198	117	1754538	343.25 ug/l	99
27) Benzene	7.393	78	5766878	282.81 ug/l	99
28) t-Amyl methyl ether (T...	7.478	73	3444436	298.54 ug/l	100
29) Trichloroethene	7.952	130	1825756	292.70 ug/l	98
30) Methylcyclohexane	8.110	83	2654755	316.02 ug/l	98
31) 1,2-Dichloropropane	8.147	63	1304738	286.20 ug/l	100
32) Bromodichloromethane	8.372	83	1615450	295.36 ug/l	100
33) cis-1,3-Dichloropropene	8.731	75	2092423	300.55 ug/l	99
34) trans-1,3-Dichloropropene	9.163	75	1889402	313.41 ug/l	99
35) 1,1,2-Trichloroethane	9.315	97	1168835	288.36 ug/l	100
36) Dibromochloromethane	9.637	129	1412828	318.82 ug/l	98
37) Bromoform	10.751	173	1061872	354.32 ug/l	98
39) 4-Methyl-2-Pentanone (...	8.840	43	773918	297.57 ug/l	98
41) Toluene	8.999	91	6346297	279.76 ug/l	96
42) Tetrachloroethene	9.431	164	1701282	304.02 ug/l	100
43) 2-Hexanone	9.485	43	513439	306.55 ug/l	100
44) 1,2-Dibromoethane (EDB)	9.735	107	1156596	286.40 ug/l	99
45) Chlorobenzene	10.106	112	4532399	286.24 ug/l	100
46) Ethylbenzene	10.173	106	2582284	292.35 ug/l	94
47) m/p-Xylene	10.258	106	6179713	569.09 ug/l	97
48) o-Xylene	10.574	106	3037430	285.01 ug/l	97
49) Xylenes (Total)	10.574	106	3037430	285.01 ug/l	97
50) Styrene	10.580	104	5077246	290.19 ug/l	97

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061402.D
Acq On : 14 Jun 2011 11:24 am
Operator : jml
Sample : VSTD300
Misc : 1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 13:44:54 2011
Quant Method : C:\msdchem\2\Methods\I50401L+.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Wed Apr 27 09:35:13 2011
Response via : Initial Calibration

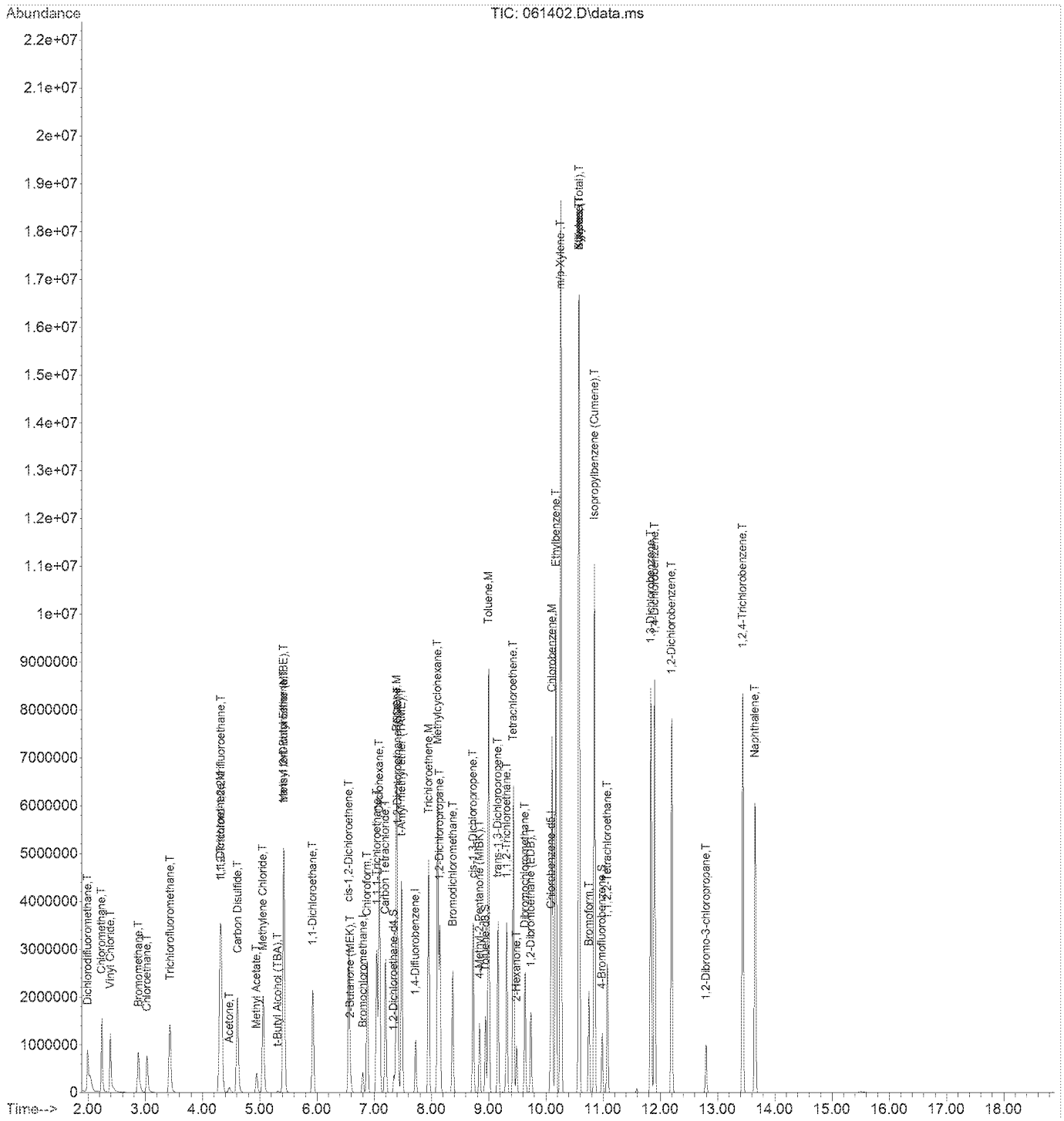
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) Isopropylbenzene (Cumene)	10.848	105	7528252	292.04 ug/l	98
53) 1,1,2,2-Tetrachloroethane	11.073	83	1287306	292.68 ug/l	99
54) 1,3-Dichlorobenzene	11.834	146	4204858	299.74 ug/l	99
55) 1,4-Dichlorobenzene	11.900	146	4275698	302.29 ug/l	99
56) 1,2-Dichlorobenzene	12.199	146	3937620	301.71 ug/l	97
57) 1,2-Dibromo-3-chloropr...	12.795	75	222247	352.45 ug/l	96
58) 1,2,4-Trichlorobenzene	13.440	180	3356100	349.51 ug/l	99
59) Naphthalene	13.653	128	5902443	321.79 ug/l	100

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061402.D
Acq On : 14 Jun 2011 11:24 am
Operator : jml
Sample : VSTD300
Misc : 1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 13:44:54 2011
Quant Method : C:\msdchem\2\Methods\I50401L+.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Wed Apr 27 09:35:13 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061408.D
Acq On : 14 Jun 2011 2:27 pm
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 22 11:45:27 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 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 : 230%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	1.011	0.836	17.3	100	0.00
3	T	Chloromethane	1.515	1.524	-0.6	100	0.00
4	T	Vinyl Chloride	1.504	1.504	0.0	100	0.00
5	T	Bromomethane	0.874	0.846	3.2	100	0.00
6	T	Chloroethane	0.944	0.940	0.4	100	0.00
7	T	Trichlorofluoromethane	1.843	1.970	-6.9	100	0.00
8	M	1,1-Dichloroethene	1.280	1.289	-0.7	100	0.00
9	T	1,1,2-Trichloro-1,2,2-trifl	1.325	1.347	-1.7	100	0.00
10	T	Acetone	0.216	0.225	-4.2	100	0.00
11	T	Carbon Disulfide	4.083	4.016	1.6	100	0.00
12	T	Methyl Acetate	0.620	0.640	-3.2	100	0.00
13	T	Methylene Chloride	1.504	1.518	-0.9	100	0.00
14	T	trans-1,2-Dichloroethene	1.574	1.581	-0.4	100	0.00
15	T	Methyl tert-Butyl Ether (Mt	3.506	3.565	-1.7	100	0.00
16	T	1,1-Dichloroethane	2.361	2.376	-0.6	100	0.00
17	T	cis-1,2-Dichloroethene	1.698	1.716	-1.1	100	0.00
18	T	2-Butanone (MEK)	0.377	0.381	-1.1	100	0.00
19	T	Chloroform	2.393	2.418	-1.0	100	0.00
20	S	1,2-Dichloroethane-d4	1.467	1.474	-0.5	100	0.00
21	T	1,2-Dichloroethane (EDC)	1.533	1.544	-0.7	100	0.00
22	I	1,4-Difluorobenzene	1.000	1.000	0.0	100	0.00
23	T	1,1,1-Trichloroethane	0.327	0.326	0.3	100	0.00
24	T	Cyclohexane	0.349	0.357	-2.3	100	0.00
25	T	Carbon Tetrachloride	0.281	0.281	0.0	100	0.00
26	M	Benzene	1.009	1.017	-0.8	100	0.00
27	M	Trichloroethene	0.311	0.311	0.0	100	0.00
28	T	Methylcyclohexane	0.418	0.427	-2.2	100	0.00
29	T	1,2-Dichloropropane	0.228	0.230	-0.9	100	0.00
30	T	Bromodichloromethane	0.278	0.279	-0.4	100	0.00
31	T	cis-1,3-Dichloropropene	0.351	0.358	-2.0	100	0.00
32	T	trans-1,3-Dichloropropene	0.317	0.320	-0.9	100	0.00
33	T	1,1,2-Trichloroethane	0.204	0.207	-1.5	100	0.00
34	T	Dibromochloromethane	0.235	0.237	-0.9	100	0.00
35	T	Bromoform	0.170	0.170	0.0	100	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00
37	T	4-Methyl-2-Pentanone (MIBK)	0.139	0.140	-0.7	100	0.00
38	S	Toluene-d8	1.209	1.215	-0.5	100	0.00
39	M	Toluene	1.229	1.257	-2.3	100	0.00
40	T	Tetrachloroethene	0.311	0.317	-1.9	100	0.00
41	T	2-Hexanone	0.089	0.090	-1.1	100	0.00
42	T	1,2-Dibromoethane (EDB)	0.222	0.224	-0.9	100	0.00
43	M	Chlorobenzene	0.882	0.896	-1.6	100	0.00
44	T	Ethylbenzene	0.485	0.495	-2.1	100	0.00
45	T	m/p-Xylene	0.599	0.615	-2.7	100	0.00
46	T	o-Xylene	0.583	0.603	-3.4	100	0.00

47	T	Xylenes (Total)	0.583	0.603	-3.4	100	0.00
48	T	Styrene	0.964	0.994	-3.1	100	0.00
49	S	4-Bromofluorobenzene	0.440	0.443	-0.7	100	0.00
50	T	Isopropylbenzene (Cumene)	1.400	1.435	-2.5	100	0.00
51	T	1,1,2,2-Tetrachloroethane	0.246	0.252	-2.4	100	0.00
52	T	1,3-Dichlorobenzene	0.774	0.786	-1.6	100	0.00
53	T	1,4-Dichlorobenzene	0.789	0.801	-1.5	100	0.00
54	T	1,2-Dichlorobenzene	0.731	0.742	-1.5	100	0.00
55	T	1,2-Dibromo-3-chloropropane	0.038	0.038	0.0	100	0.00
56	T	1,2,4-Trichlorobenzene	0.547	0.556	-1.6	100	0.00

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

I50614L.M Wed Jun 22 11:47:06 2011

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061408.D
Acq On : 14 Jun 2011 2:27 pm
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 22 11:45:27 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.796	128	143703	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	902236	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	809483	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.344	65	211867	50.26 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 100.52%		
38) Toluene-d8	8.944	98	983770	50.25 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 100.50%		
49) 4-Bromofluorobenzene	10.982	95	358518	50.29 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 100.58%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.997	85	120067	41.34 ug/l	100
3) Chloromethane	2.240	50	219027	50.29 ug/l	100
4) Vinyl Chloride	2.392	62	216067	50.00 ug/l	100
5) Bromomethane	2.873	94	121585	48.39 ug/l	100
6) Chloroethane	3.031	64	135036	49.76 ug/l	100
7) Trichlorofluoromethane	3.432	101	283166	53.45 ug/l	100
8) 1,1-Dichloroethene	4.308	96	185217	50.34 ug/l	100
9) 1,1,2-Trichloro-1,2,2-...	4.327	101	193530	50.82 ug/l	100
10) Acetone	4.460	43	32306	52.03 ug/l	100
11) Carbon Disulfide	4.612	76	577059	49.18 ug/l	100
12) Methyl Acetate	4.941	43	91938	51.60 ug/l	100
13) Methylene Chloride	5.057	84	218198	50.48 ug/l	100
14) trans-1,2-Dichloroethene	5.416	96	227214	50.22 ug/l	100
15) Methyl tert-Butyl Ethe...	5.422	73	512363	50.85 ug/l	100
16) 1,1-Dichloroethane	5.927	63	341445	50.31 ug/l	100
17) cis-1,2-Dichloroethene	6.559	96	246645	50.54 ug/l	100
18) 2-Butanone (MEK)	6.584	43	54679	50.51 ug/l	100
19) Chloroform	6.876	83	347484	50.52 ug/l	100
21) 1,2-Dichloroethane (EDC)	7.411	62	221832	50.33 ug/l	100
23) 1,1,1-Trichloroethane	7.046	97	293995	49.79 ug/l	100
24) Cyclohexane	7.088	56	321785	51.11 ug/l	100
25) Carbon Tetrachloride	7.198	117	253793	50.06 ug/l	100
26) Benzene	7.393	78	917163	50.40 ug/l	100
27) Trichloroethene	7.952	130	280315	49.95 ug/l	100
28) Methylcyclohexane	8.111	83	385443	51.15 ug/l	100
29) 1,2-Dichloropropane	8.147	63	207142	50.34 ug/l	100
30) Bromodichloromethane	8.372	83	252046	50.30 ug/l	100
31) cis-1,3-Dichloropropene	8.725	75	323428	51.10 ug/l	100
32) trans-1,3-Dichloropropene	9.163	75	288934	50.57 ug/l	100
33) 1,1,2-Trichloroethane	9.315	97	186994	50.87 ug/l	100
34) Dibromochloromethane	9.631	129	213566	50.27 ug/l	100
35) Bromoform	10.751	173	153724	50.11 ug/l	100
37) 4-Methyl-2-Pentanone (...	8.841	43	113729	50.53 ug/l	100
39) Toluene	8.999	91	1017382	51.13 ug/l	100
40) Tetrachloroethene	9.431	164	256464	50.87 ug/l	100
41) 2-Hexanone	9.485	43	73256	50.81 ug/l	100
42) 1,2-Dibromoethane (EDB)	9.735	107	180938	50.38 ug/l	100
43) Chlorobenzene	10.106	112	724908	50.76 ug/l	100
44) Ethylbenzene	10.173	106	400732	51.03 ug/l	100
45) m/p-Xylene	10.258	106	995751	102.60 ug/l	100
46) o-Xylene	10.574	106	487867	51.66 ug/l	100
47) Xylenes (Total)	10.574	106	487867	51.66 ug/l	100
48) Styrene	10.580	104	804786	51.55 ug/l	100
50) Isopropylbenzene (Cumene)	10.848	105	1161803	51.26 ug/l	100
51) 1,1,2,2-Tetrachloroethane	11.073	83	203930	51.29 ug/l	100

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061408.D
Acq On : 14 Jun 2011 2:27 pm
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 22 11:45:27 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

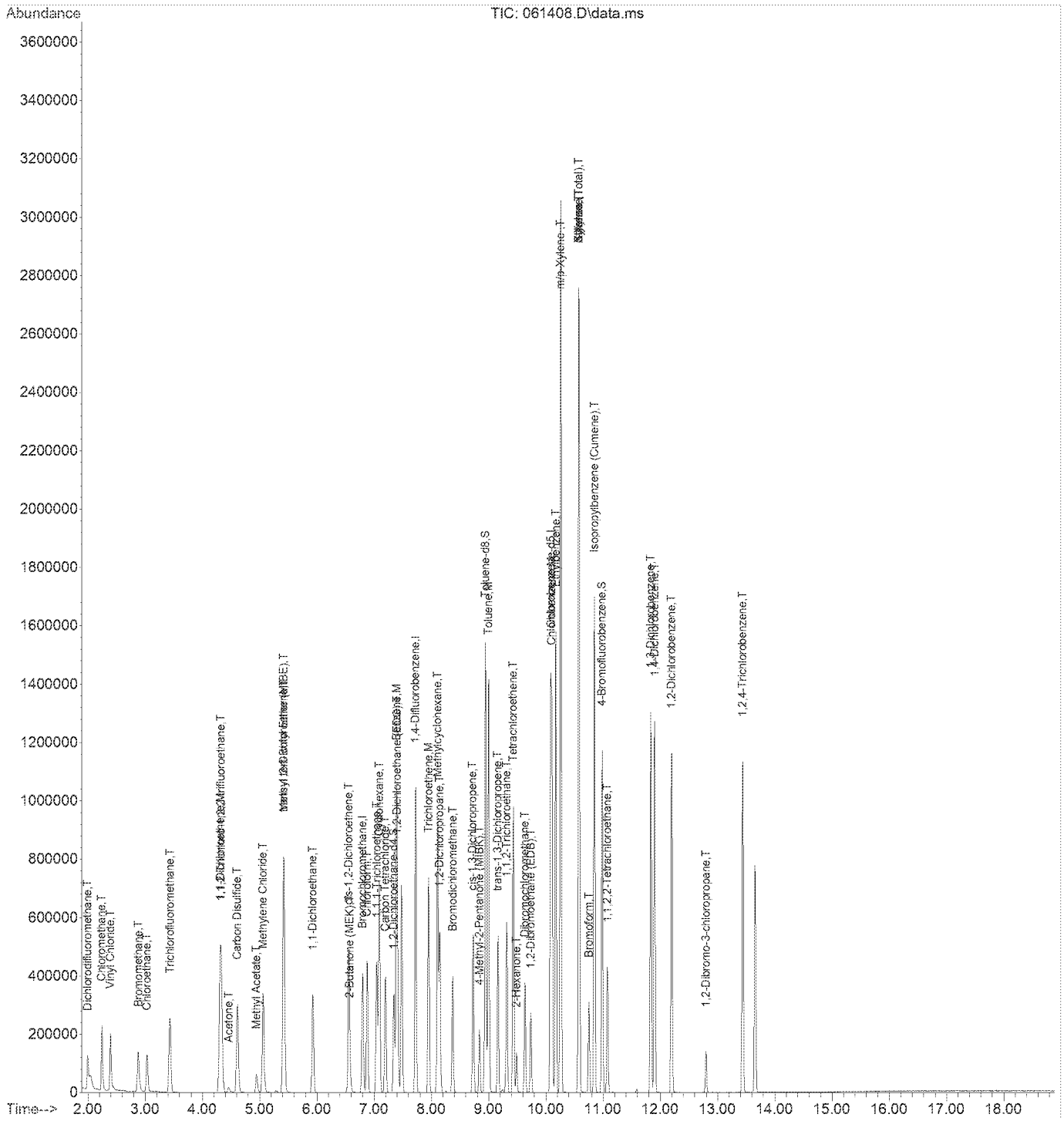
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) 1,3-Dichlorobenzene	11.834	146	636379	50.80 ug/l	100
53) 1,4-Dichlorobenzene	11.901	146	648343	50.75 ug/l	100
54) 1,2-Dichlorobenzene	12.199	146	600373	50.70 ug/l	100
55) 1,2-Dibromo-3-chloropr...	12.795	75	30379	50.01 ug/l	100
56) 1,2,4-Trichlorobenzene	13.440	180	450384	50.86 ug/l	100

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50614L.jml\
Data File : 061408.D
Acq On : 14 Jun 2011 2:27 pm
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 22 11:45:27 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062103.D
Acq On : 21 Jun 2011 11:35 am
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 22 08:48:45 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 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 : 230%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	114	0.00
2	T	Dichlorodifluoromethane	1.011	1.142	-13.0	155	-0.02
3	T	Chloromethane	1.515	1.271	16.1	95	-0.01
4	T	Vinyl Chloride	1.504	1.297	13.8	98	-0.01
5	T	Bromomethane	0.874	0.882	-0.9	119	-0.02
6	T	Chloroethane	0.944	0.876	7.2	106	-0.01
7	T	Trichlorofluoromethane	1.843	1.866	-1.2	108	-0.02
8	M	1,1-Dichloroethene	1.280	1.160	9.4	103	-0.01
9	T	1,1,2-Trichloro-1,2,2-trifl	1.325	1.232	7.0	104	-0.01
10	T	Acetone	0.216	0.205	5.1	104	-0.02
11	T	Carbon Disulfide	4.083	3.629	11.1	103	-0.01
12	T	Methyl Acetate	0.620	0.532	14.2	95	0.00
13	T	Methylene Chloride	1.504	1.366	9.2	102	0.00
14	T	trans-1,2-Dichloroethene	1.574	1.428	9.3	103	0.00
15	T	Methyl tert-Butyl Ether (Mt	3.506	3.109	11.3	99	0.00
16	T	1,1-Dichloroethane	2.361	2.153	8.8	103	0.00
17	T	cis-1,2-Dichloroethene	1.698	1.546	9.0	102	0.00
18	T	2-Butanone (MEK)	0.377	0.350	7.2	104	0.00
19	T	Chloroform	2.393	2.203	7.9	104	0.00
20	S	1,2-Dichloroethane-d4	1.467	1.473	-0.4	114	0.00
21	T	1,2-Dichloroethane (EDC)	1.533	1.415	7.7	104	0.00
22	I	1,4-Difluorobenzene	1.000	1.000	0.0	114	0.00
23	T	1,1,1-Trichloroethane	0.327	0.302	7.6	106	0.00
24	T	Cyclohexane	0.349	0.323	7.4	104	0.00
25	T	Carbon Tetrachloride	0.281	0.263	6.4	107	0.00
26	M	Benzene	1.009	0.923	8.5	104	0.00
27	M	Trichloroethene	0.311	0.287	7.7	105	0.00
28	T	Methylcyclohexane	0.418	0.391	6.5	105	0.00
29	T	1,2-Dichloropropane	0.228	0.208	8.8	104	0.00
30	T	Bromodichloromethane	0.278	0.255	8.3	104	0.00
31	T	cis-1,3-Dichloropropene	0.351	0.315	10.3	100	0.00
32	T	trans-1,3-Dichloropropene	0.317	0.277	12.6	99	0.00
33	T	1,1,2-Trichloroethane	0.204	0.183	10.3	101	0.00
34	T	Dibromochloromethane	0.235	0.215	8.5	104	0.00
35	T	Bromoform	0.170	0.155	8.8	104	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	116	0.00
37	T	4-Methyl-2-Pentanone (MIBK)	0.139	0.120	13.7	100	0.00
38	S	Toluene-d8	1.209	1.184	2.1	113	0.00
39	M	Toluene	1.229	1.118	9.0	104	0.00
40	T	Tetrachloroethene	0.311	0.284	8.7	104	0.00
41	T	2-Hexanone	0.089	0.078	12.4	101	0.00
42	T	1,2-Dibromoethane (EDB)	0.222	0.195	12.2	102	0.00
43	M	Chlorobenzene	0.882	0.803	9.0	104	0.00
44	T	Ethylbenzene	0.485	0.441	9.1	104	0.00
45	T	m/p-Xylene	0.599	0.552	7.8	104	0.00
46	T	o-Xylene	0.583	0.533	8.6	103	0.00
47	T	Xylenes (Total)	0.583	0.533	8.6	103	0.00
48	T	Styrene	0.964	0.888	7.9	104	0.00
49	S	4-Bromofluorobenzene	0.440	0.444	-0.9	117	0.00
50	T	Isopropylbenzene (Cumene)	1.400	1.295	7.5	105	0.00
51	T	1,1,2,2-Tetrachloroethane	0.246	0.215	12.6	99	0.00
52	T	1,3-Dichlorobenzene	0.774	0.703	9.2	104	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062103.D
Acq On : 21 Jun 2011 11:35 am
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 22 08:48:45 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 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 : 230%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
53 T	1,4-Dichlorobenzene	0.789	0.707	10.4	103	0.00
54 T	1,2-Dichlorobenzene	0.731	0.652	10.8	102	0.00
55 T	1,2-Dibromo-3-chloropropane	0.038	0.031	18.4	95	0.00
56 T	1,2,4-Trichlorobenzene	0.547	0.448	18.1	94	0.00

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062103.D
Acq On : 21 Jun 2011 11:35 am
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 22 08:48:45 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.790	128	163307	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	1030343	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.081	117	942540	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	240537	50.21 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 100.42%		
38) Toluene-d8	8.944	98	1116315	48.97 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 97.94%		
49) 4-Bromofluorobenzene	10.982	95	418782	50.45 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 100.90%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.978	85	186559	56.52 ug/l	99
3) Chloromethane	2.228	50	207554	41.94 ug/l	98
4) Vinyl Chloride	2.380	62	211827	43.14 ug/l	100
5) Bromomethane	2.854	94	144098	50.46 ug/l	99
6) Chloroethane	3.018	64	143084	46.40 ug/l	96
7) Trichlorofluoromethane	3.414	101	304809	50.62 ug/l	98
8) 1,1-Dichloroethene	4.296	96	189472	45.31 ug/l	97
9) 1,1,2-Trichloro-1,2,2-...	4.314	101	201255	46.50 ug/l	98
10) Acetone	4.436	43	33454	47.41 ug/l	95
11) Carbon Disulfide	4.600	76	592711	44.45 ug/l	99
12) Methyl Acetate	4.935	43	86922	42.93 ug/l	92
13) Methylene Chloride	5.050	84	223059	45.41 ug/l	97
14) trans-1,2-Dichloroethene	5.409	96	233220	45.36 ug/l	97
15) Methyl tert-Butyl Ethe...	5.415	73	507690	44.34 ug/l	100
16) 1,1-Dichloroethane	5.920	63	351624	45.59 ug/l	100
17) cis-1,2-Dichloroethene	6.553	96	252543	45.54 ug/l	98
18) 2-Butanone (MEK)	6.577	43	57117	46.42 ug/l	97
19) Chloroform	6.875	83	359813	46.04 ug/l	99
21) 1,2-Dichloroethane (EDC)	7.405	62	231009	46.12 ug/l	97
23) 1,1,1-Trichloroethane	7.040	97	310988	46.12 ug/l	98
24) Cyclohexane	7.082	56	333165	46.34 ug/l	99
25) Carbon Tetrachloride	7.192	117	271249	46.85 ug/l	100
26) Benzene	7.386	78	950775	45.75 ug/l	99
27) Trichloroethene	7.946	130	295456	46.10 ug/l	99
28) Methylcyclohexane	8.104	83	403080	46.84 ug/l	98
29) 1,2-Dichloropropane	8.141	63	214627	45.67 ug/l	99
30) Bromodichloromethane	8.366	83	262634	45.90 ug/l	99
31) cis-1,3-Dichloropropene	8.725	75	324725	44.92 ug/l	99
32) trans-1,3-Dichloropropene	9.163	75	285522	43.76 ug/l	99
33) 1,1,2-Trichloroethane	9.315	97	188939	45.01 ug/l	100
34) Dibromochloromethane	9.631	129	221642	45.69 ug/l	100
35) Bromoform	10.751	173	160182	45.72 ug/l	98
37) 4-Methyl-2-Pentanone (...	8.834	43	113192	43.19 ug/l	97
39) Toluene	8.999	91	1053647	45.48 ug/l	100
40) Tetrachloroethene	9.431	164	267768	45.61 ug/l	98
41) 2-Hexanone	9.485	43	73713	43.91 ug/l	98
42) 1,2-Dibromoethane (EDB)	9.735	107	184213	44.05 ug/l	98
43) Chlorobenzene	10.106	112	757260	45.54 ug/l	100
44) Ethylbenzene	10.173	106	416106	45.51 ug/l	100
45) m/p-Xylene	10.258	106	1039905	92.02 ug/l	96
46) o-Xylene	10.574	106	502621	45.71 ug/l	100
47) Xylenes (Total)	10.574	106	502621	45.71 ug/l	100
48) Styrene	10.580	104	836560	46.02 ug/l	99
50) Isopropylbenzene (Cumene)	10.848	105	1220374	46.24 ug/l	99
51) 1,1,2,2-Tetrachloroethane	11.073	83	202239	43.69 ug/l	98

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062103.D
Acq On : 21 Jun 2011 11:35 am
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 22 08:48:45 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

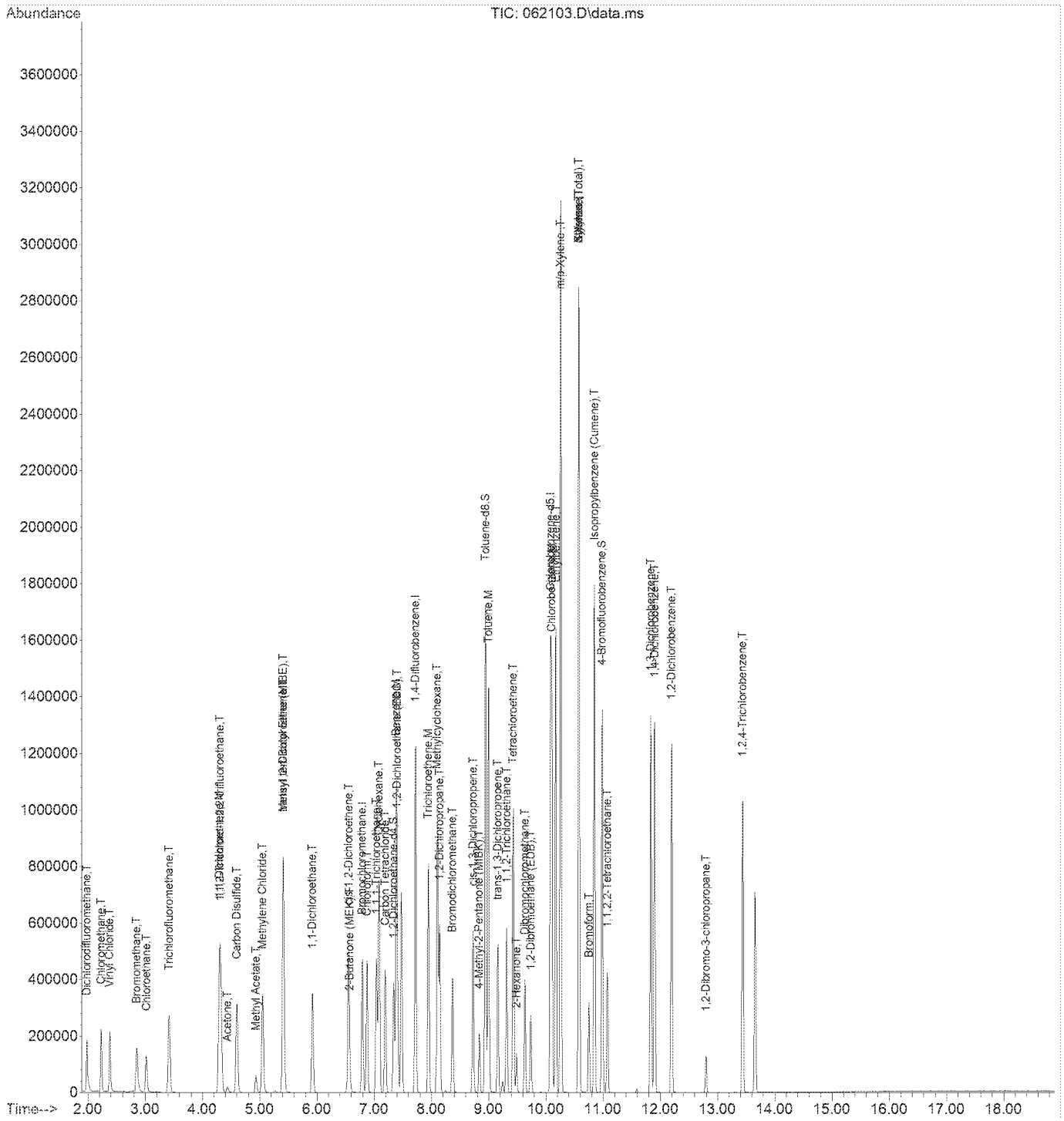
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) 1,3-Dichlorobenzene	11.834	146	662487	45.42 ug/l	99
53) 1,4-Dichlorobenzene	11.900	146	666691	44.82 ug/l	99
54) 1,2-Dichlorobenzene	12.199	146	614507	44.56 ug/l	99
55) 1,2-Dibromo-3-chloropr...	12.795	75	28830	40.76 ug/l	97
56) 1,2,4-Trichlorobenzene	13.440	180	421817	40.91 ug/l	99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062103.D
Acq On : 21 Jun 2011 11:35 am
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 22 08:48:45 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062117.D
Acq On : 21 Jun 2011 6:24 pm
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 22 08:51:42 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 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 : 230%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	90	0.00
2	T	Dichlorodifluoromethane	1.011	1.344	-32.9#	145	0.00
3	T	Chloromethane	1.515	1.539	-1.6	91	0.00
4	T	Vinyl Chloride	1.504	1.555	-3.4	93	0.00
5	T	Bromomethane	0.874	0.984	-12.6	105	0.00
6	T	Chloroethane	0.944	1.061	-12.4	102	0.00
7	T	Trichlorofluoromethane	1.843	2.177	-18.1	100	0.00
8	M	1,1-Dichloroethene	1.280	1.361	-6.3	95	0.00
9	T	1,1,2-Trichloro-1,2,2-trifl	1.325	1.421	-7.2	95	0.00
10	T	Acetone	0.216	0.255	-18.1	102	-0.02
11	T	Carbon Disulfide	4.083	4.290	-5.1	96	0.00
12	T	Methyl Acetate	0.620	0.593	4.4	84	0.00
13	T	Methylene Chloride	1.504	1.640	-9.0	97	0.00
14	T	trans-1,2-Dichloroethene	1.574	1.726	-9.7	98	0.00
15	T	Methyl tert-Butyl Ether (Mt	3.506	3.843	-9.6	97	0.00
16	T	1,1-Dichloroethane	2.361	2.640	-11.8	100	0.00
17	T	cis-1,2-Dichloroethene	1.698	1.863	-9.7	98	0.00
18	T	2-Butanone (MEK)	0.377	0.430	-14.1	102	0.00
19	T	Chloroform	2.393	2.689	-12.4	100	0.00
20	S	1,2-Dichloroethane-d4	1.467	1.504	-2.5	92	0.00
21	T	1,2-Dichloroethane (EDC)	1.533	1.753	-14.4	102	0.00
22	I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
23	T	1,1,1-Trichloroethane	0.327	0.358	-9.5	99	0.00
24	T	Cyclohexane	0.349	0.376	-7.7	96	0.00
25	T	Carbon Tetrachloride	0.281	0.304	-8.2	98	0.00
26	M	Benzene	1.009	1.124	-11.4	100	0.00
27	M	Trichloroethene	0.311	0.342	-10.0	100	0.00
28	T	Methylcyclohexane	0.418	0.442	-5.7	94	0.00
29	T	1,2-Dichloropropane	0.228	0.253	-11.0	100	0.00
30	T	Bromodichloromethane	0.278	0.304	-9.4	99	0.00
31	T	cis-1,3-Dichloropropene	0.351	0.368	-4.8	93	0.00
32	T	trans-1,3-Dichloropropene	0.317	0.327	-3.2	92	0.00
33	T	1,1,2-Trichloroethane	0.204	0.229	-12.3	100	0.00
34	T	Dibromochloromethane	0.235	0.256	-8.9	98	0.00
35	T	Bromoform	0.170	0.180	-5.9	96	0.00
36	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
37	T	4-Methyl-2-Pentanone (MIBK)	0.139	0.152	-9.4	99	0.00
38	S	Toluene-d8	1.209	1.195	1.2	91	0.00
39	M	Toluene	1.229	1.359	-10.6	100	0.00
40	T	Tetrachloroethene	0.311	0.331	-6.4	96	0.00
41	T	2-Hexanone	0.089	0.094	-5.6	96	0.00
42	T	1,2-Dibromoethane (EDB)	0.222	0.239	-7.7	98	0.00
43	M	Chlorobenzene	0.882	0.968	-9.8	100	0.00
44	T	Ethylbenzene	0.485	0.532	-9.7	99	0.00
45	T	m/p-Xylene	0.599	0.666	-11.2	100	0.00
46	T	o-Xylene	0.583	0.649	-11.3	99	0.00
47	T	Xylenes (Total)	0.583	0.649	-11.3	99	0.00
48	T	Styrene	0.964	1.061	-10.1	98	0.00
49	S	4-Bromofluorobenzene	0.440	0.447	-1.6	93	0.00
50	T	Isopropylbenzene (Cumene)	1.400	1.544	-10.3	99	0.00
51	T	1,1,2,2-Tetrachloroethane	0.246	0.267	-8.5	98	0.00
52	T	1,3-Dichlorobenzene	0.774	0.821	-6.1	96	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062117.D
Acq On : 21 Jun 2011 6:24 pm
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 22 08:51:42 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 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 : 230%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
53 T	1,4-Dichlorobenzene	0.789	0.844	-7.0	97	0.00
54 T	1,2-Dichlorobenzene	0.731	0.778	-6.4	97	0.00
55 T	1,2-Dibromo-3-chloropropane	0.038	0.038	0.0	92	0.00
56 T	1,2,4-Trichlorobenzene	0.547	0.538	1.6	89	0.00

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062117.D
Acq On : 21 Jun 2011 6:24 pm
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 22 08:51:42 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.796	128	129511	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	817119	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	745487	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.344	65	194730	51.26 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 102.52%		
38) Toluene-d8	8.944	98	890542	49.40 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 98.80%		
49) 4-Bromofluorobenzene	10.982	95	332891	50.70 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 101.40%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.990	85	174034	66.48 ug/l	97
3) Chloromethane	2.234	50	199369	50.80 ug/l	99
4) Vinyl Chloride	2.386	62	201425	51.72 ug/l	99
5) Bromomethane	2.866	94	127379	56.25 ug/l	97
6) Chloroethane	3.025	64	137457	56.20 ug/l	96
7) Trichlorofluoromethane	3.426	101	281946	59.05 ug/l	97
8) 1,1-Dichloroethene	4.302	96	176260	53.15 ug/l	100
9) 1,1,2-Trichloro-1,2,2-...	4.327	101	184024	53.62 ug/l	99
10) Acetone	4.442	43	33086	59.12 ug/l	93
11) Carbon Disulfide	4.606	76	555648	52.54 ug/l	100
12) Methyl Acetate	4.941	43	76842	47.85 ug/l	96
13) Methylene Chloride	5.057	84	212443	54.54 ug/l	99
14) trans-1,2-Dichloroethene	5.415	96	223481	54.81 ug/l	97
15) Methyl tert-Butyl Ethe...	5.422	73	497758	54.81 ug/l	100
16) 1,1-Dichloroethane	5.926	63	341903	55.90 ug/l	98
17) cis-1,2-Dichloroethene	6.559	96	241323	54.87 ug/l	100
18) 2-Butanone (MEK)	6.583	43	55682	57.07 ug/l	99
19) Chloroform	6.876	83	348302	56.19 ug/l	98
21) 1,2-Dichloroethane (EDC)	7.411	62	227010	57.15 ug/l	96
23) 1,1,1-Trichloroethane	7.046	97	292368	54.67 ug/l	100
24) Cyclohexane	7.088	56	307401	53.91 ug/l	100
25) Carbon Tetrachloride	7.198	117	248329	54.08 ug/l	99
26) Benzene	7.387	78	918340	55.72 ug/l	100
27) Trichloroethene	7.952	130	279410	54.97 ug/l	98
28) Methylcyclohexane	8.110	83	361518	52.97 ug/l	99
29) 1,2-Dichloropropane	8.147	63	206395	55.38 ug/l	99
30) Bromodichloromethane	8.372	83	248432	54.75 ug/l	99
31) cis-1,3-Dichloropropene	8.725	75	301102	52.53 ug/l	100
32) trans-1,3-Dichloropropene	9.163	75	267036	51.60 ug/l	98
33) 1,1,2-Trichloroethane	9.315	97	186780	56.10 ug/l	100
34) Dibromochloromethane	9.631	129	208929	54.31 ug/l	98
35) Bromoform	10.751	173	147271	53.00 ug/l	99
37) 4-Methyl-2-Pentanone (...	8.841	43	113046	54.54 ug/l	99
39) Toluene	8.999	91	1013156	55.29 ug/l	98
40) Tetrachloroethene	9.431	164	246840	53.16 ug/l	96
41) 2-Hexanone	9.485	43	70011	52.73 ug/l	96
42) 1,2-Dibromoethane (EDB)	9.735	107	178075	53.83 ug/l	100
43) Chlorobenzene	10.106	112	721434	54.85 ug/l	100
44) Ethylbenzene	10.173	106	396429	54.82 ug/l	100
45) m/p-Xylene	10.258	106	992476	111.04 ug/l	98
46) o-Xylene	10.574	106	483870	55.63 ug/l	100
47) Xylenes (Total)	10.574	106	483870	55.63 ug/l	100
48) Styrene	10.580	104	791286	55.03 ug/l	100
50) Isopropylbenzene (Cumene)	10.848	105	1150931	55.14 ug/l	99
51) 1,1,2,2-Tetrachloroethane	11.073	83	199313	54.44 ug/l	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062117.D
Acq On : 21 Jun 2011 6:24 pm
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 22 08:51:42 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

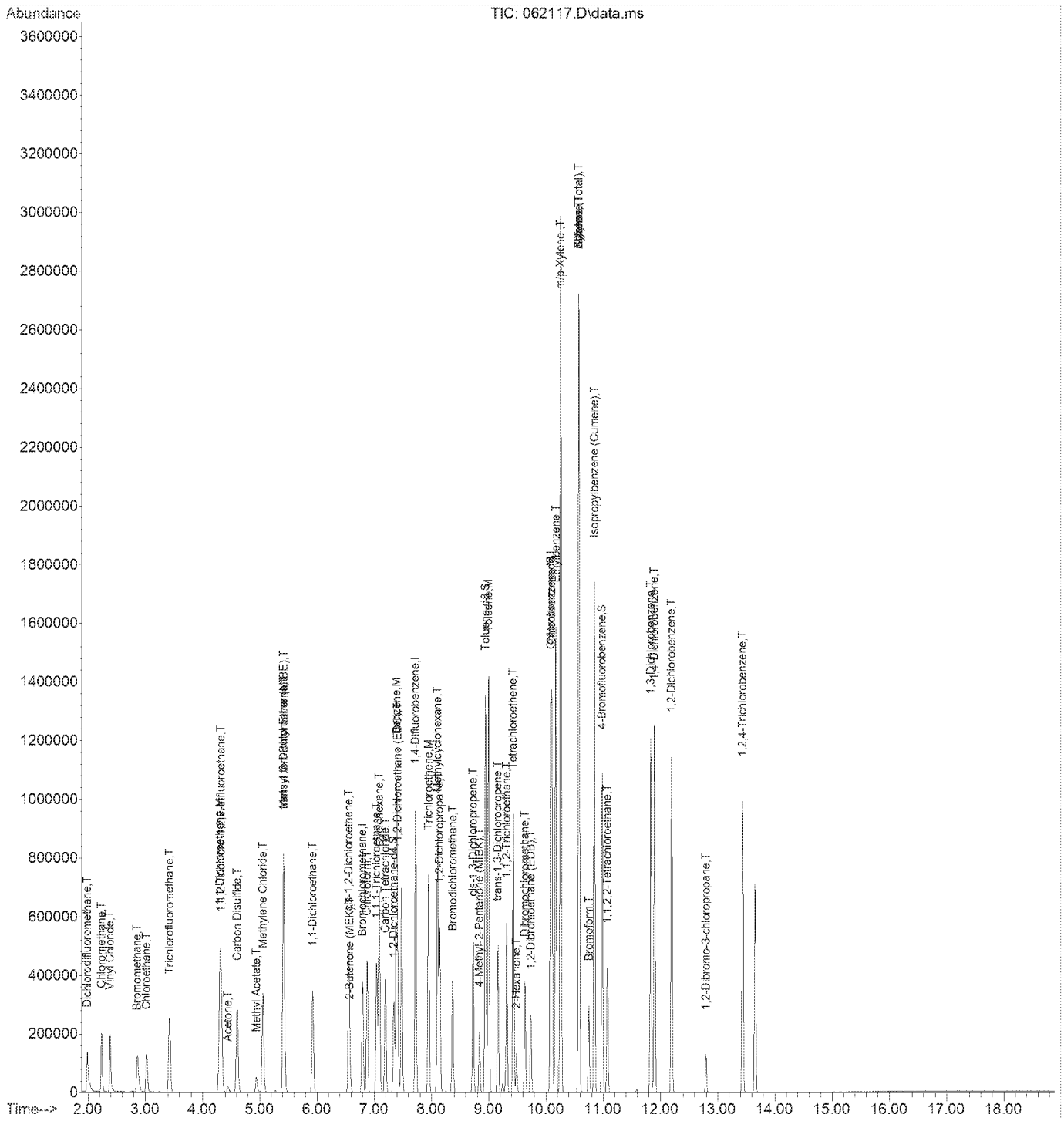
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
52) 1,3-Dichlorobenzene	11.834	146	611744	53.03 ug/l	100
53) 1,4-Dichlorobenzene	11.901	146	629417	53.50 ug/l	100
54) 1,2-Dichlorobenzene	12.199	146	580105	53.19 ug/l	100
55) 1,2-Dibromo-3-chloropr...	12.795	75	28025	50.10 ug/l	96
56) 1,2,4-Trichlorobenzene	13.434	180	401250	49.20 ug/l	99

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

Quantitation Report (QT Reviewed)

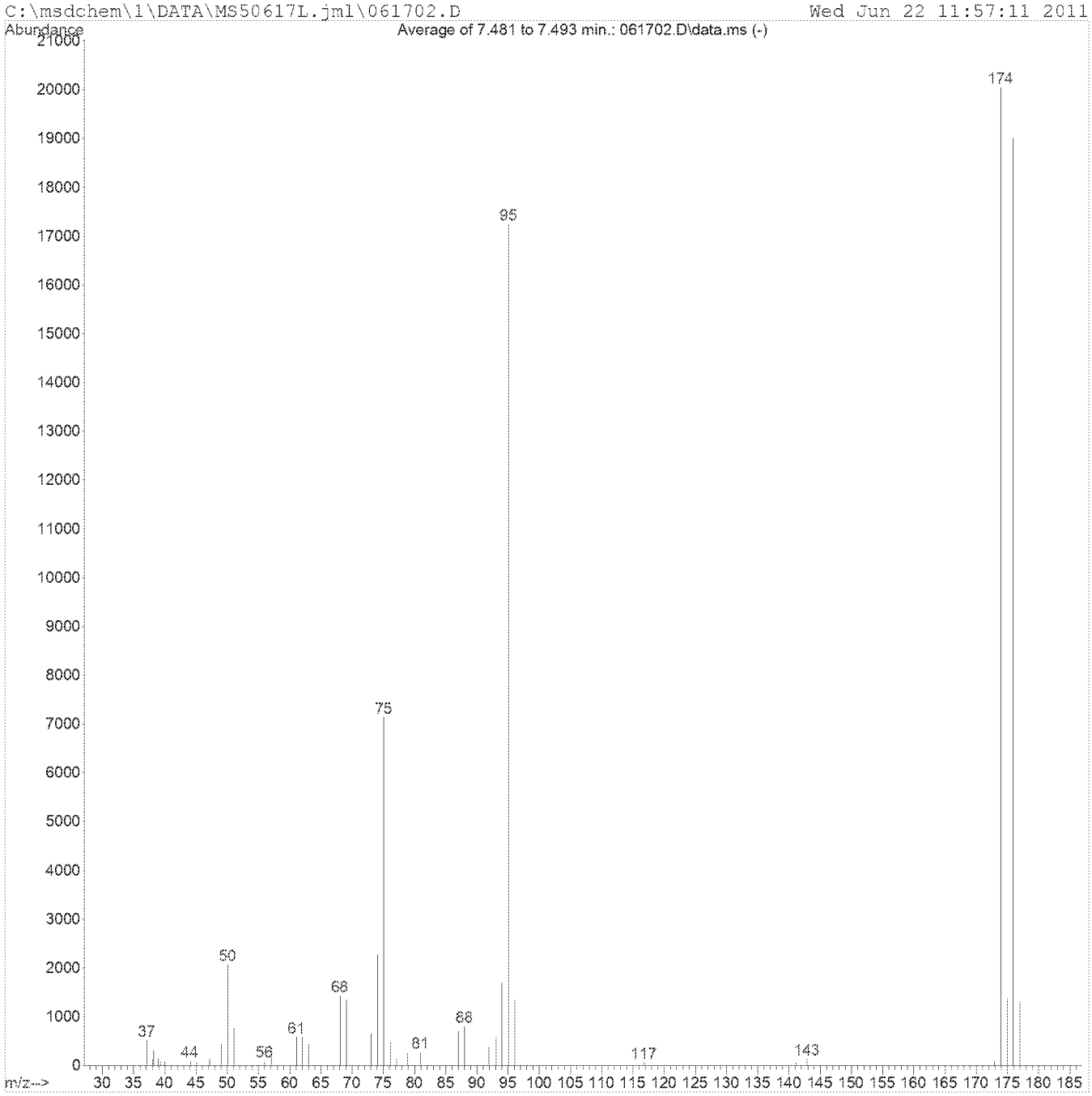
Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062117.D
Acq On : 21 Jun 2011 6:24 pm
Operator : jml
Sample : VSTD050
Misc : 1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 22 08:51:42 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration



BFB CLP Results

C:\msdchem\1\DATA\MS50617L.jml\061702.D Wed Jun 22 11:57:11 2011



Peak Apex is scan: 938
Average of 3 scans: 937,938,939 minus background scan 918

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
50	95	8	40	12.0	PASS
75	95	30	66	41.4	PASS
95	95	100	100	100.0	PASS
96	95	5	9	7.7	PASS
173	174	0	2	0.4	PASS
174	95	50	120	116.3	PASS
175	174	4	9	6.8	PASS
176	174	93	101	94.8	PASS
177	176	5	9	6.9	PASS

Average of 7.481 to 7.493 min.: 061702.D\data.ms
BFB
Modified:subtracted

m/z	Abundance
37.15	510.0
38.00	137.0
38.20	309.0
38.95	144.0
39.30	77.0
39.95	79.0
44.05	87.0
45.10	52.0
47.15	133.0
49.05	434.0
50.10	2069.0
51.05	766.0
56.00	90.0
57.05	293.0
61.10	583.0
62.05	580.0
63.00	438.0
68.05	1430.0
69.05	1339.0
73.05	645.0
74.05	2277.0
75.10	7135.0
76.10	493.0
77.15	126.0
78.90	260.0
80.95	265.0
87.00	702.0
88.00	801.0
91.95	374.0
93.05	571.0
94.00	1693.0
95.05	17237.0
96.05	1335.0
116.80	52.0
141.10	51.0
142.90	133.0
172.90	82.0
173.95	20045.0
174.95	1369.0
175.90	19008.0
176.95	1312.0

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File        :C:\msdchem\1\DATA\MS50617L.jml\061702.D
Operator    : jml
Acquired    : 17 Jun 2011  10:43 am using AcqMethod BFB-HAND.M
Instrument :   DEL5
Sample Name: BFB
Misc Info  : 1
Vial Number: 6
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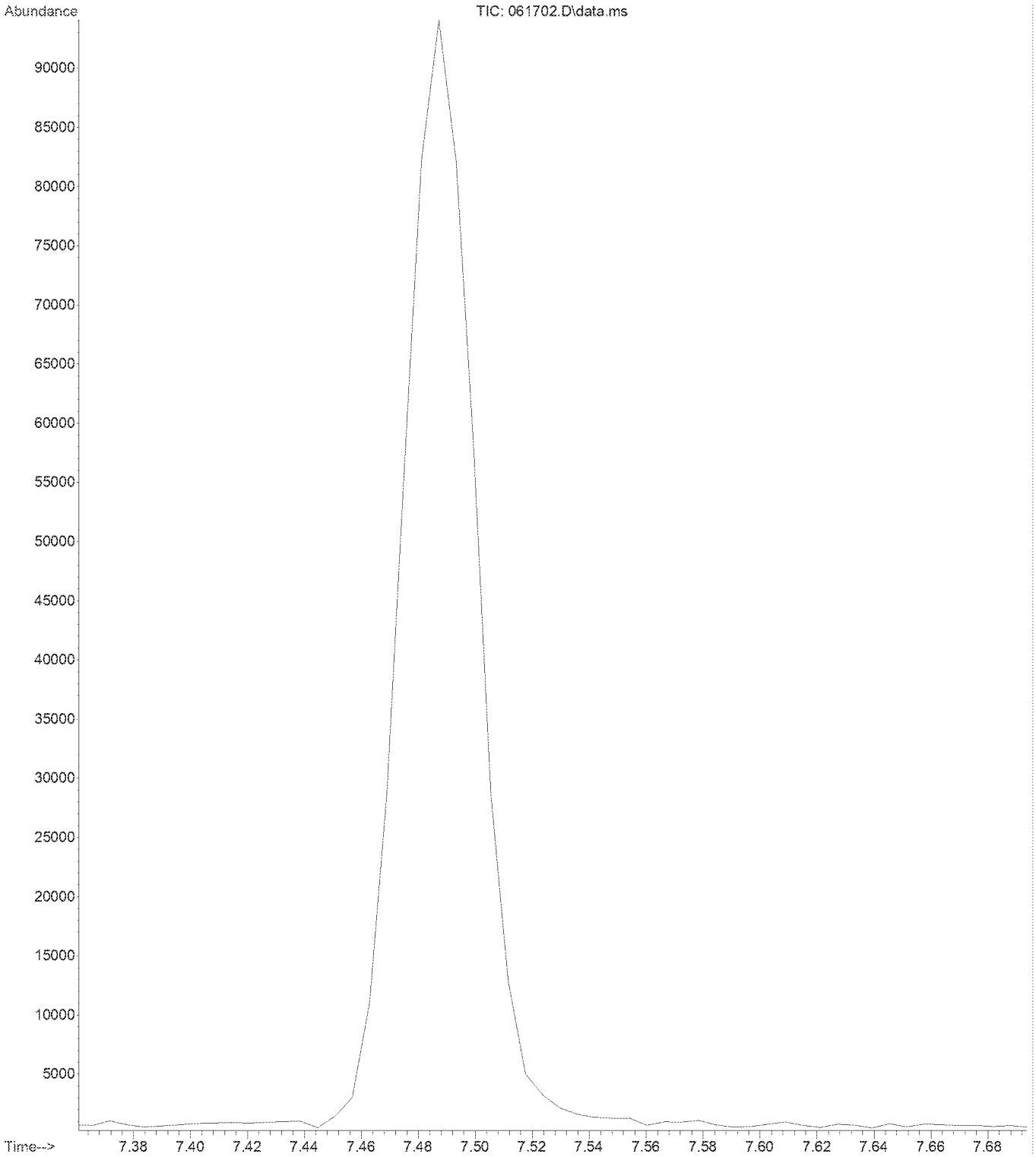
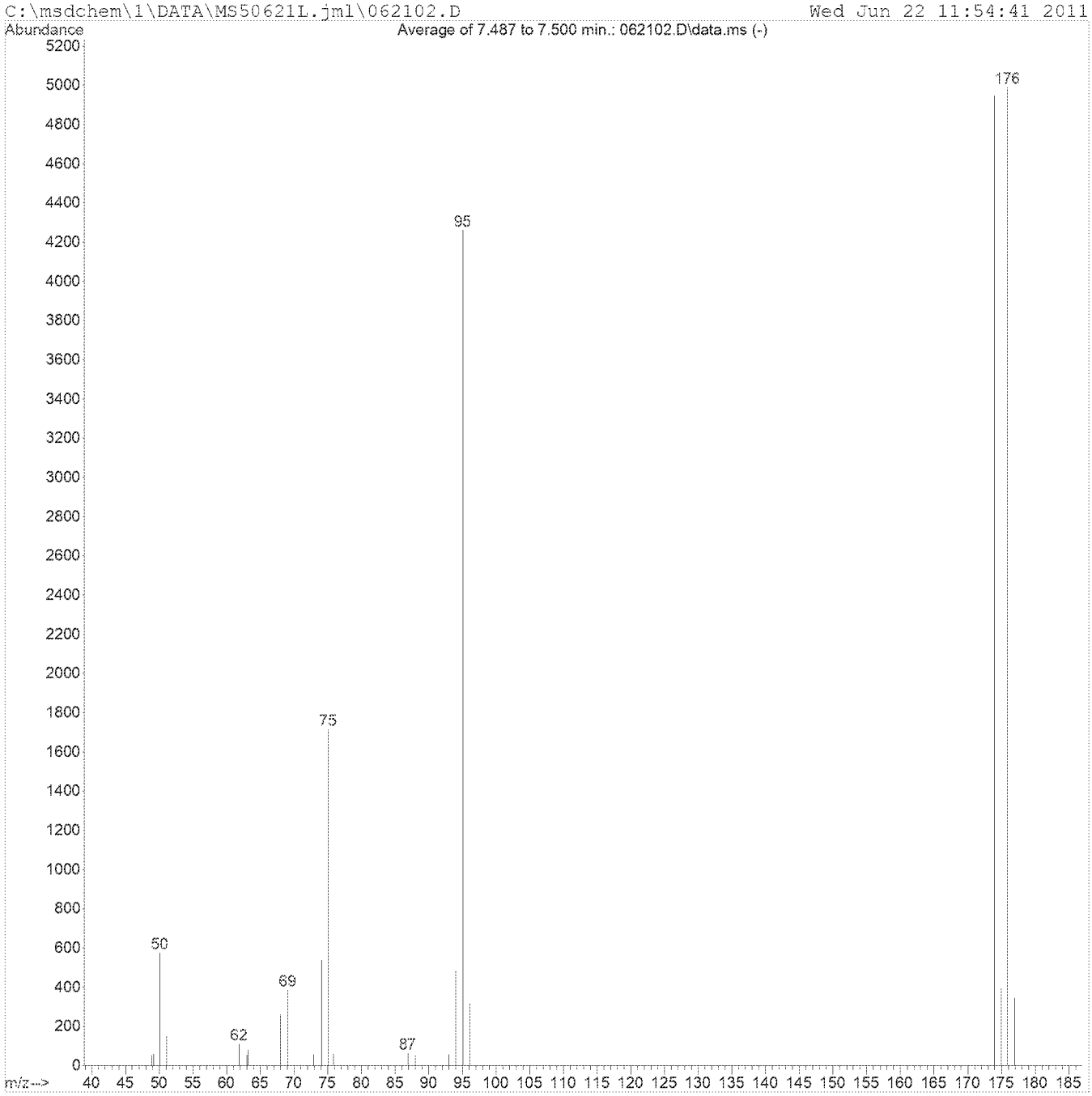


BFB CLP Results

C:\msdchem\1\DATA\MS50621L.jml\062102.D Wed Jun 22 11:54:41 2011



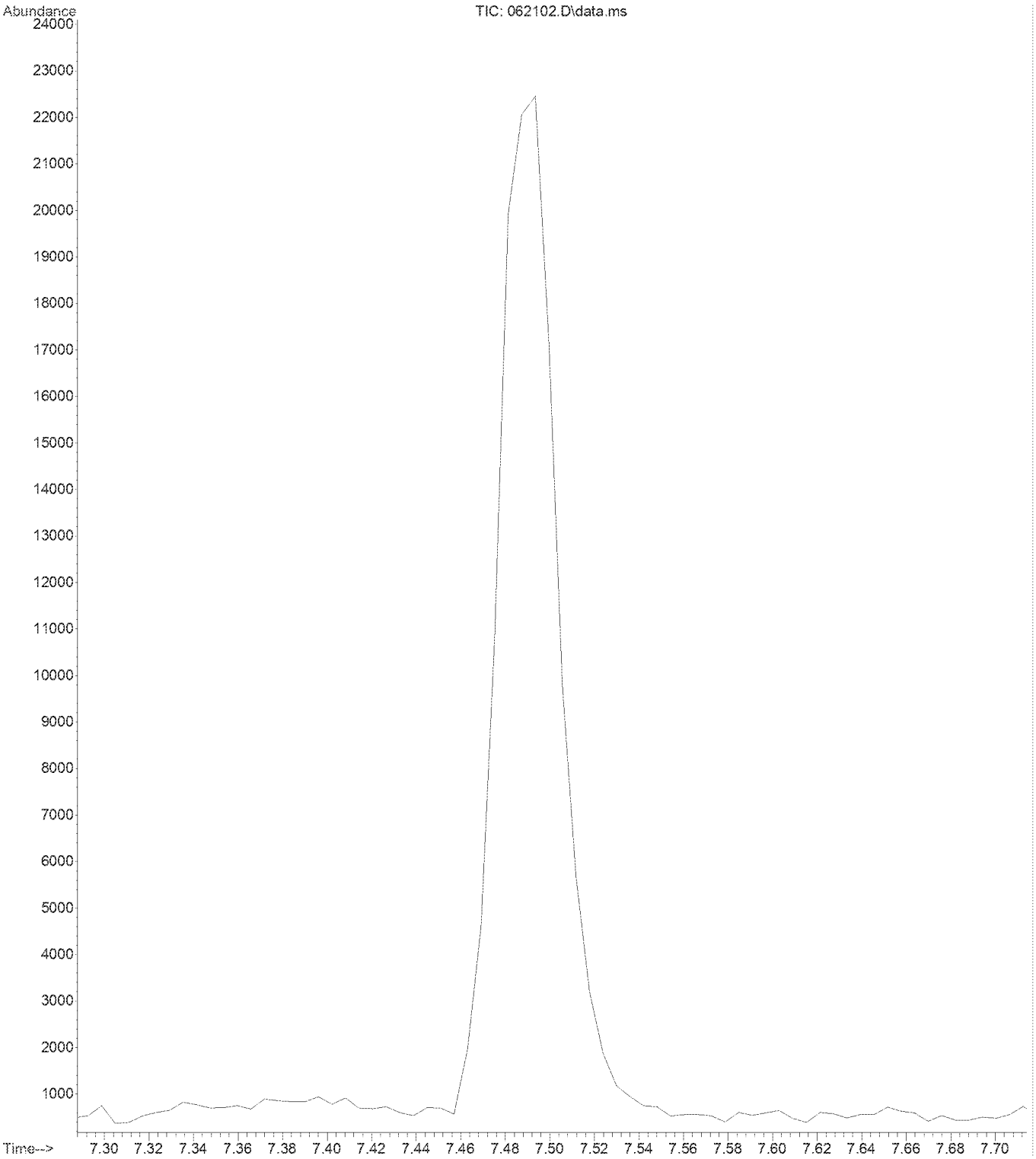
Peak Apex is scan: 939
Average of 3 scans: 938,939,940 minus background scan 919

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
50	95	8	40	13.5	PASS
75	95	30	66	40.2	PASS
95	95	100	100	100.0	PASS
96	95	5	9	7.4	PASS
173	174	0	2	0.0	PASS
174	95	50	120	116.1	PASS
175	174	4	9	7.9	PASS
176	174	93	101	100.9	PASS
177	176	5	9	6.9	PASS

Average of 7.487 to 7.500 min.: 062102.D\data.ms
BFB
Modified:subtracted

m/z	Abundance
48.90	51.0
49.20	59.0
50.10	574.0
51.10	154.0
61.90	108.0
63.00	54.0
63.20	79.0
68.00	259.0
69.10	385.0
72.90	57.0
74.10	538.0
75.10	1714.0
75.90	58.0
86.90	61.0
88.00	52.0
93.00	55.0
94.00	482.0
95.05	4260.0
96.05	315.0
173.95	4945.0
174.95	391.0
175.90	4988.0
176.95	343.0

```
File        :C:\msdchem\1\DATA\MS50621L.jml\062102.D
Operator    : jml
Acquired    : 21 Jun 2011  11:13 am using AcqMethod BFB-HAND.M
Instrument :   DEL5
Sample Name: BFB
Misc Info  : 1
Vial Number: 5
```



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062105.D
Acq On : 21 Jun 2011 12:38 pm
Operator : jml
Sample : Method Blank
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 22 10:43:59 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.797	128	142482	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	872101	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	798412	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	210493	50.36 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 100.72%		
38) Toluene-d8	8.944	98	952731	49.34 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 98.68%		
49) 4-Bromofluorobenzene	10.982	95	329768	46.90 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 93.80%		

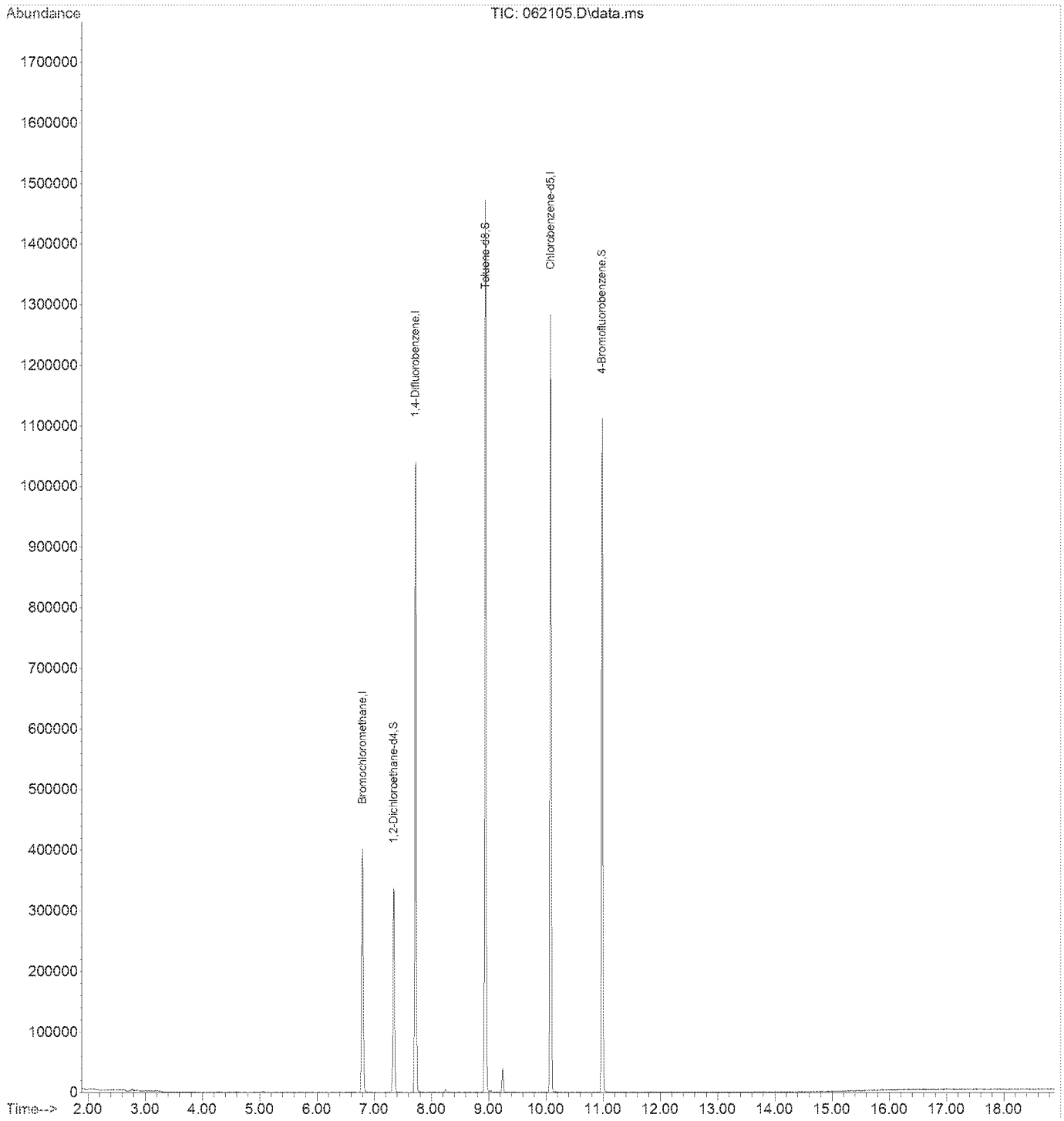
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062105.D
Acq On : 21 Jun 2011 12:38 pm
Operator : jml
Sample : Method Blank
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 22 10:43:59 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration



LSC Area Percent Report

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062105.D
Acq On : 21 Jun 2011 12:38 pm
Operator : jml
Sample : Method Blank
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : C:\msdchem\2\Methods\I50614L.M
Title : VOA Standards for 6 point calibration

Signal : TIC: 062105.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	6.797	800	808	819	rBV	401407	774193	33.14%	8.373%
2	7.338	890	897	908	rBV	337256	618429	26.47%	6.688%
3	7.721	953	960	971	rBV	1039910	1717588	73.51%	18.575%
4	8.944	1154	1161	1169	rBV	1471470	2336382	100.00%	25.267%
5	9.242	1203	1210	1216	rBV	39315	65665	2.81%	0.710%
6	10.082	1339	1348	1358	rBV	1283378	2031675	86.96%	21.972%
7	10.982	1489	1496	1511	rBV	1111445	1702713	72.88%	18.414%

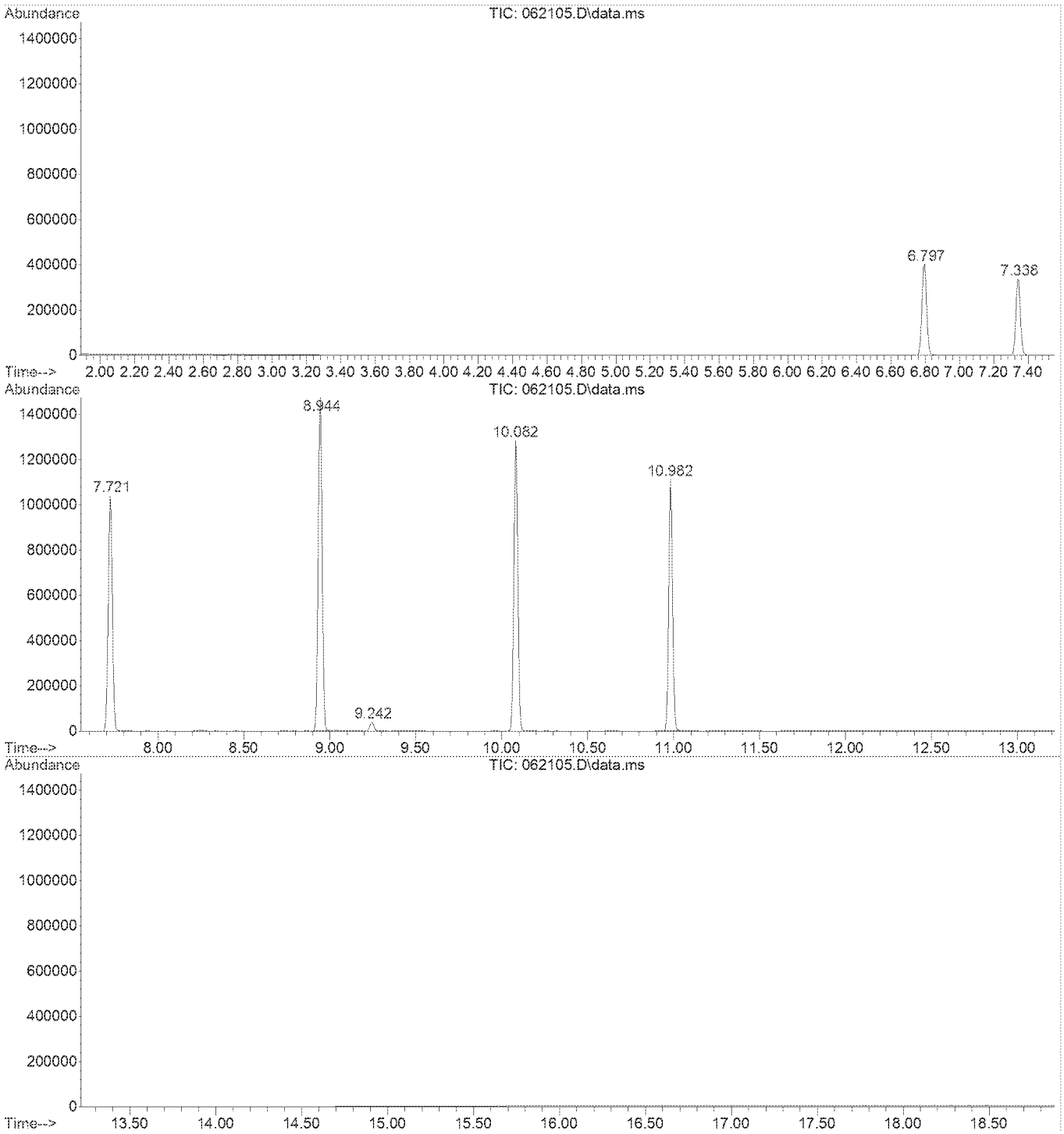
Sum of corrected areas: 9246645

LSC Report - Integrated Chromatogram

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062105.D
Acq On : 21 Jun 2011 12:38 pm
Operator : jml
Sample : Method Blank
Misc : 1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration

TIC Library : C:\Database\Nist98.l
TIC Integration Parameters: LSCINT.P



Tentatively Identified Compound (LSC) summary

```
Data Path : C:\msdchem\1\DATA\MS50621L.jml\\
Data File : 062105.D
Acq On    : 21 Jun 2011  12:38 pmm
Operator  : jml1
Sample    : Method Blankk
Misc      : 11
ALS Vial  : 8   Sample Multiplier: 11

Quant Method : C:\msdchem\2\Methods\I50614L.MM
Quant Title  : VOA  Standards for 6 point calibrationn

TIC Library   : C:\Database\Nist98.l1
TIC Integration Parameters: LSCINT.PP

                                                  |--Internal Standard---|
TIC Top Hit name      RT  EstConc Units Response |#    RT     Resp  Conc|
-------------------------------------------------------------------------------
```

No Library Search Compounds Detected
****

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062107.D
Acq On : 21 Jun 2011 1:36 pm
Operator : jml
Sample : LCS-W
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 22 10:51:18 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

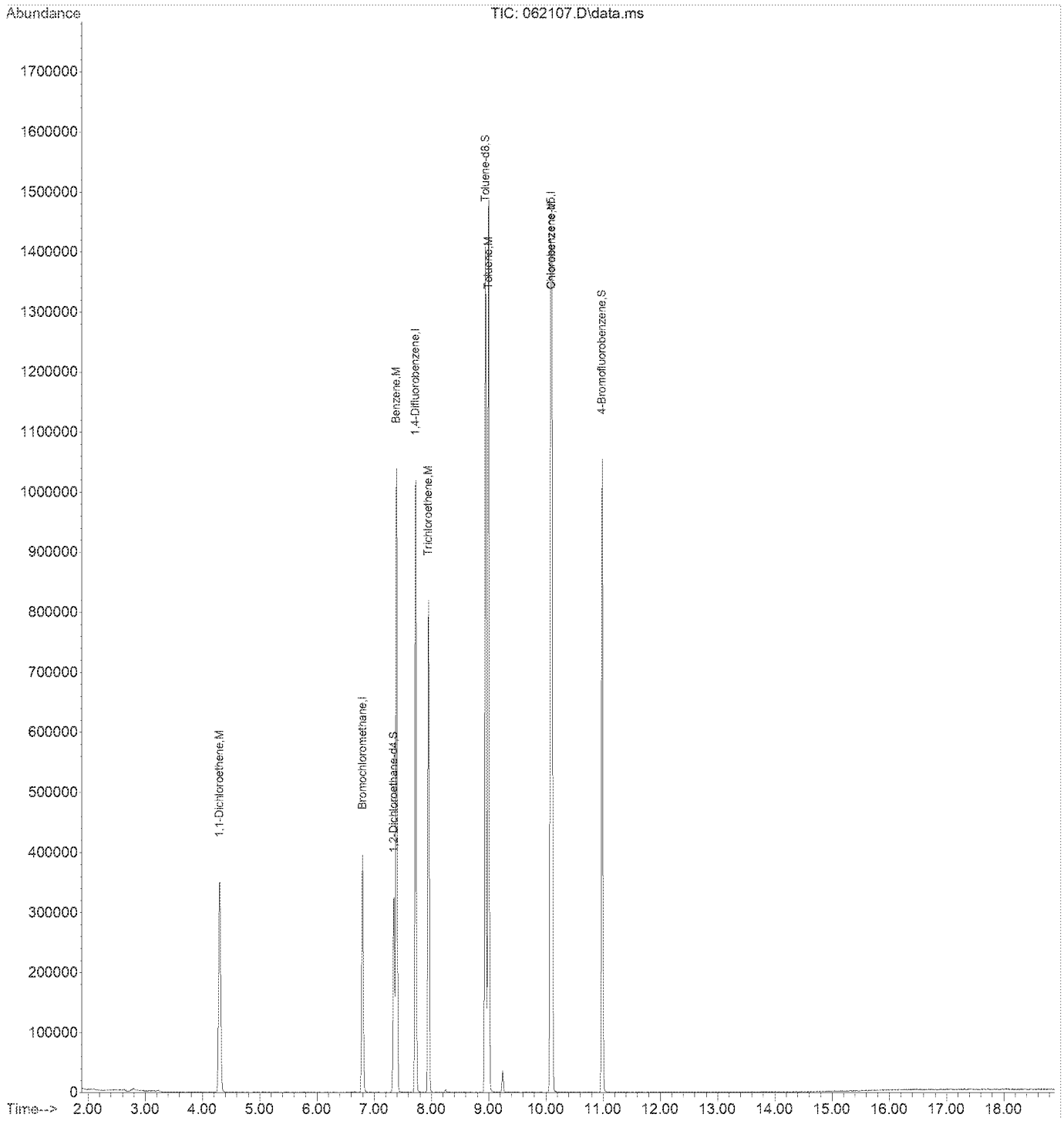
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.796	128	136693	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	850479	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	771628	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.344	65	203273	50.69 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 101.38%		
38) Toluene-d8	8.944	98	914901	49.03 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 98.06%		
49) 4-Bromofluorobenzene	10.982	95	320431	47.15 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 94.30%		
Target Compounds					Qvalue
8) 1,1-Dichloroethene	4.302	96	217427	62.12 ug/l	99
26) Benzene	7.386	78	966618	56.35 ug/l	100
27) Trichloroethene	7.946	130	305741	57.79 ug/l	99
39) Toluene	8.999	91	1078254	56.84 ug/l	100
43) Chlorobenzene	10.106	112	761964	55.97 ug/l	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062107.D
Acq On : 21 Jun 2011 1:36 pm
Operator : jml
Sample : LCS-W
Misc : 1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 22 10:51:18 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062109.D
Acq On : 21 Jun 2011 2:34 pm
Operator : jml
Sample : MS-W
Misc : 1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 22 10:57:32 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

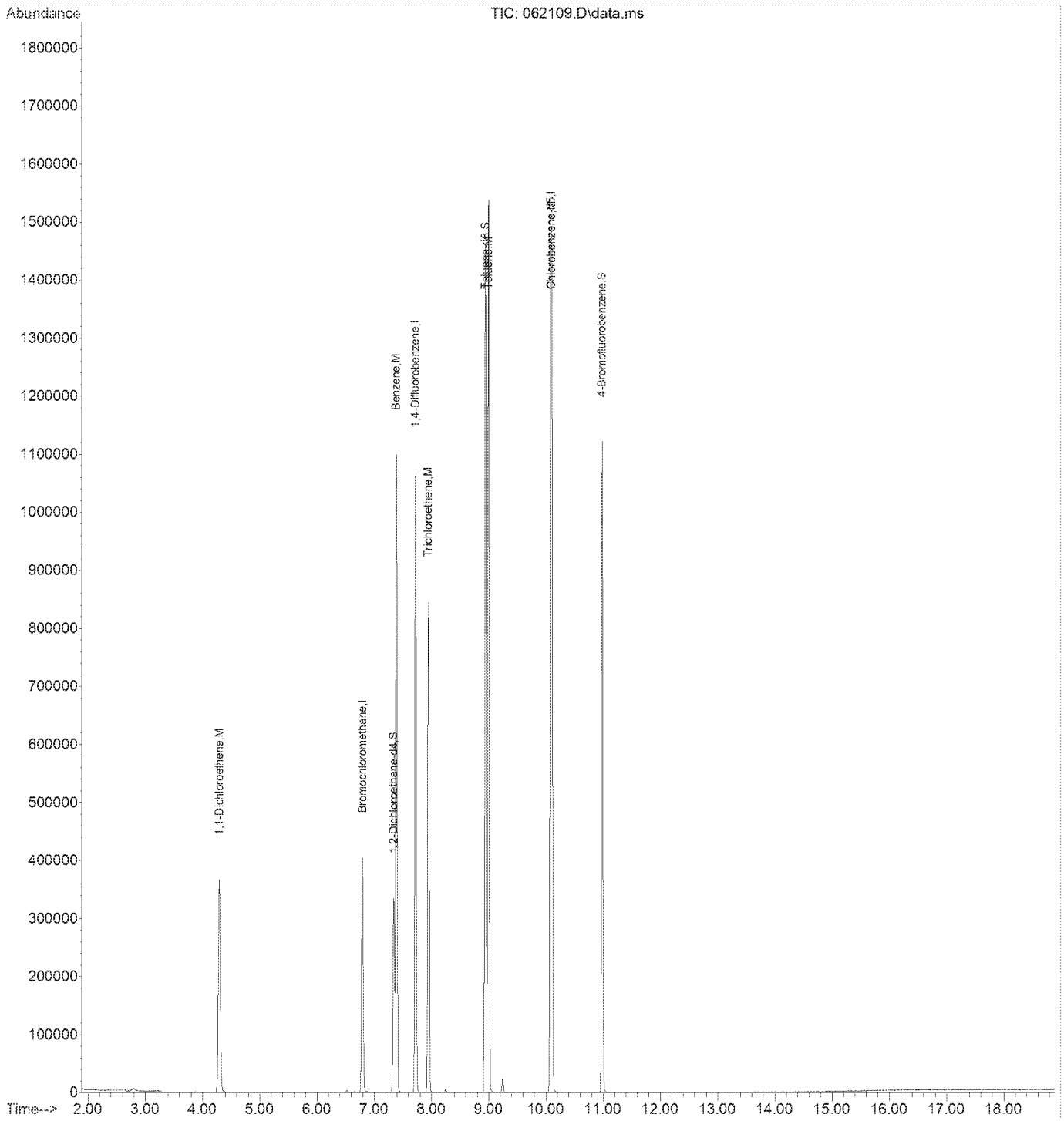
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.796	128	144309	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.721	114	891834	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.081	117	806955	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.338	65	215743	50.96 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 101.92%		
38) Toluene-d8	8.944	98	963919	49.39 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 98.78%		
49) 4-Bromofluorobenzene	10.982	95	335073	47.15 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 94.30%		
Target Compounds					Qvalue
8) 1,1-Dichloroethene	4.296	96	222201	60.13 ug/l	94
26) Benzene	7.386	78	998482	55.51 ug/l	99
27) Trichloroethene	7.946	130	313493	56.51 ug/l	98
39) Toluene	8.999	91	1104838	55.70 ug/l	99
43) Chlorobenzene	10.106	112	791683	55.61 ug/l	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062109.D
Acq On : 21 Jun 2011 2:34 pm
Operator : jml
Sample : MS-W
Misc : 1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 22 10:57:32 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062110.D
Acq On : 21 Jun 2011 3:03 pm
Operator : jml
Sample : MSD-W
Misc : 1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 22 10:59:31 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration

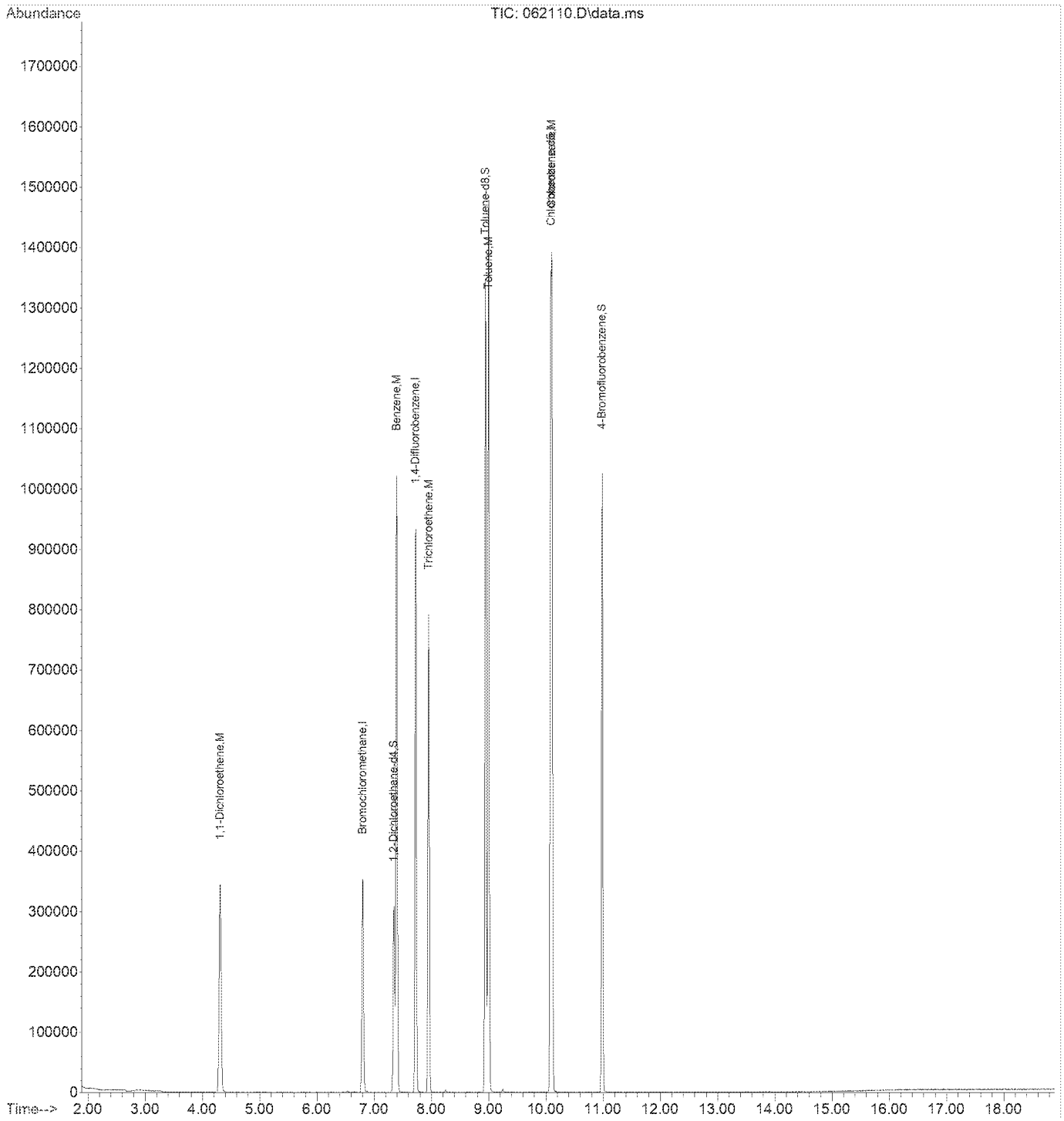
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Bromochloromethane	6.803	128	127016	50.00 ug/l	0.00
22) 1,4-Difluorobenzene	7.727	114	796683	50.00 ug/l	0.00
36) Chlorobenzene-d5	10.082	117	725143	50.00 ug/l	0.00
System Monitoring Compounds					
20) 1,2-Dichloroethane-d4	7.344	65	191490	51.39 ug/l	0.00
Spiked Amount 50.000	Range 76 - 114		Recovery = 102.78%		
38) Toluene-d8	8.944	98	862156	49.16 ug/l	0.00
Spiked Amount 50.000	Range 88 - 110		Recovery = 98.32%		
49) 4-Bromofluorobenzene	10.982	95	303353	47.50 ug/l	0.00
Spiked Amount 50.000	Range 86 - 115		Recovery = 95.00%		
Target Compounds					Qvalue
8) 1,1-Dichloroethene	4.308	96	208883	64.23 ug/l	98
26) Benzene	7.393	78	936068	58.25 ug/l	99
27) Trichloroethene	7.952	130	293740	59.27 ug/l	99
39) Toluene	8.999	91	1052159	59.02 ug/l	100
43) Chlorobenzene	10.106	112	748599	58.51 ug/l	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\MS50621L.jml\
Data File : 062110.D
Acq On : 21 Jun 2011 3:03 pm
Operator : jml
Sample : MSD-W
Misc : 1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 22 10:59:31 2011
Quant Method : C:\msdchem\2\Methods\I50614L.M
Quant Title : VOA Standards for 6 point calibration
QLast Update : Tue Jun 14 15:23:20 2011
Response via : Initial Calibration



Environmental Laboratory Section - Division of Water
Department of Natural Resources and Environmental Control
89 Kings Highway, Dover, DE 19901 (302) 739-9942

FIELD CHAIN OF CUSTODY

(Complete in BLUE ink)

Page 1 of 1

Client : Robert M. Schulte
Address : DNREC - Division of ~~Air & Waste Management~~ WASTE & HAZARDOUS SUBSTANCES
391 Lukens Drive, New Castle, DE 19720
Phone No.: (302) 395-2600

Report To : Robert M. Schulte
Invoice To : Robert M. Schulte
Account :
ELS Order ID : 1106041

PROJECT NAME: DE-0344 (Procino Plating)

SAMPLERS (Please Print): John Carroll / Krystal Stanley

(ELS Use Only) Lab Log No.	Client Sample Description	Sample Date	Sample Time	Matrix	Comp	Grab	No. Of Containers	VOA	SVOA	Metals (total & diss)	Dup 6-17-11					REMARKS
1106041-001	Trip Blank	4/25/11	1100	GW		✓	3	✓	X	X						
1106041-002	PPMW01	6/16/11	1330	GW		✓	7	✓	✓	✓						
1106041-003	PPMW02	6/16/11	1215	GW		✓	7	✓	✓	✓						
1106041-004	PPMW03	6/16/11	1015	GW		✓	12	✓	✓	✓						USE FOR MS/MSD
1106041-005	PPMW04	6/16/11	0845	GW		✓	7	✓	✓	✓						
1106041-006	PPMW05	6/17/11	1055	GW		✓	7	✓	✓	✓						
1106041-007	PPMW06	6/17/11	0945	GW		✓	7	✓	✓	✓						
1106041-008	DUP-1	6/16/11	NR	GW		✓	7	✓	✓	✓						

RELINQUISHED BY: (signature)	DATE	TIME	RECEIVED BY: (signature)
[signature]	6-17-11	1255	[signature]

DW - drinking water, ER - equip. rinsate, GW - ground water, Lab - lab water, LW - liquid waste, Sd - sediment, SL - sludge, SO - soil, SW - surface water, TI - tissue, WS - solid waste, WW - waste water

COMMENTS:

Is laboratory chain-of-custody required? Yes / No

ELS USE ONLY
Sample Conditions (circle response):
1. Samples match COC? Yes/No 2. Bottles supplied by ELS? Yes/No 3. Samples received broken/leaking? Yes/No 4. Cooler temp bottle 2-6 degrees? Yes/No/NA
5. Properly preserved? Yes/No 6. VOA/DO containers free of headspace? Yes/No/NA 7. Holding times expired? Yes/No 8. Volume sufficient for analysis? Yes/No

Coc04101

Environmental Laboratory Section – Division of Water Resources
Delaware Department of Natural Resources and Environmental Control
89 Kings Highway, Dover, DE 11901 (302) 739-9942

VOA LABORATORY CHAIN OF CUSTODY

Log Number	Container Number(s)	Log Number	Container Number(s)
1106041 - 001			
002			
003			
004			
005			
006			
007			
008			

Date/time 06/17/11 1255 Sample Custodian [signature] to Cooler.
mo day yr time (signature)

Date 6/17/11 Received by [signature] Time 1255
mo day yr (signature)

Date / / Received by _____ Time _____
mo day yr (signature)

Date / / Disposal by _____
mo day yr (signature)

\\F:\ELS\documents\approved_docs\forms\VOALCOC.doc
4/18/02

00115

Environmental Laboratory Section
Delaware Department of Natural Resources & Environmental Control Division of Water Resources
89 Kings Highway, Dover, DE 19901 (302)739-9942

VOLATILES - DEL 5 - INSTRUMENT RUN LOG

Project Name(s): Calibration
Order No(s): —
Target Parameters: TCLP
EM Volts: 1635

Tracking No(s):
BFB: VW2840
Surrogate/ISTD: VW2864
ISTDs: —

Target Cmpds: VW2863
Spikes: —

DATAFILE	Sample Information	Run Date	Analyst	Comments (pH)
D061401	BFB	6-14-11	JZ	
02	VSTD300	↓	↓	
03	200			
04	100			
05	050			
06	020			
07	010			
08	050			
09	010			

Data Directory: MS50614LJML
Processing Method: IS0614Lt.M

00049

Environmental Laboratory Section
Delaware Department of Natural Resources & Environmental Control Division of Water Resources
89 Kings Highway, Dover, DE 19901 (302)739-9942

VOLATILES - DEL 5 - INSTRUMENT RUN LOG

Project Name(s): Procino
Order No(s): 1106041
Target Parameters: TCL
EM Volts: 1635

Tracking No(s):
BFB: VW2840
Surrogate/ISTD: VW2864
ISTDs: —

Target Cmpds: VW2867
Spikes: VW2866

DATAFILE	Sample Information	Run Date	Analyst	Comments (pH)
062101	BFB	6-21-11	GZ	
02	BFB			
03	VSTD050			
04	Method Blank			
05	Method Blank			
06	1106041-001			
07	LCS-W			
08	1106041-004			
09	MS-W			
10	MSD-W			
11	1106041-002			
12	-003			
13	-005			
14	-006			
15	-007			
16	-008			
17	VSTD050			

Data Directory: MS50621L.M
Processing Method: I50614L.M

00051

PROJECT NARRATIVE
Project: Procino Plating
Order Number: 1106041

1 Discussion of Exceptions / Quality Control Abnormalities

1.1 Pentachlorophenol has a RPD outside the established limit. No action is required.

2 Summary of Dilutions

2.1 None

3 Method References

3.1 The laboratory followed analytical protocol from USEPA SW-846 Method 8270D and the State of Delaware HSCA SOP.

4 Method Deviations

4.1 None

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW01

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-002
Method: EPA 8270D
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	10	U	06/27/2011 15:55
108-95-2	Phenol	1	10	U	06/27/2011 15:55
111-44-4	bis(2-Chloroethyl) ether	1	10	U	06/27/2011 15:55
95-57-8	2-Chlorophenol	1	10	U	06/27/2011 15:55
541-73-1	1,3-Dichlorobenzene	1	10	U	06/27/2011 15:55
106-46-7	1,4-Dichlorobenzene	1	10	U	06/27/2011 15:55
95-50-1	1,2-Dichlorobenzene	1	10	U	06/27/2011 15:55
95-48-7	2-Methylphenol	1	10	U	06/27/2011 15:55
108-60-1	2,2'-oxybis(1-Chloropropane)	1	10	U	06/27/2011 15:55
98-86-2	Acetophenone	1	10	U	06/27/2011 15:55
106-44-5	4-Methylphenol	1	10	U	06/27/2011 15:55
621-64-7	N-Nitroso-di-n-propylamine	1	10	U	06/27/2011 15:55
67-72-1	Hexachloroethane	1	10	U	06/27/2011 15:55
98-95-3	Nitrobenzene	1	10	U	06/27/2011 15:55
78-59-1	Isophorone	1	10	U	06/27/2011 15:55
88-75-5	2-Nitrophenol	1	10	U	06/27/2011 15:55
105-67-9	2,4-Dimethylphenol	1	10	U	06/27/2011 15:55
111-91-1	bis(2-Chloroethoxy) methane	1	10	U	06/27/2011 15:55
120-83-2	2,4-Dichlorophenol	1	10	U	06/27/2011 15:55
91-20-3	Naphthalene	1	10	U	06/27/2011 15:55
106-47-8	4-Chloroaniline	1	10	U	06/27/2011 15:55
87-68-3	Hexachlorobutadiene	1	10	U	06/27/2011 15:55
105-60-2	Caprolactam	1	10	U	06/27/2011 15:55
120-82-1	1,2,4-Trichlorobenzene	1	10	U	06/27/2011 15:55
59-50-7	4-Chloro-3-methylphenol	1	10	U	06/27/2011 15:55
91-57-6	2-Methylnaphthalene	1	10	U	06/27/2011 15:55
77-47-4	Hexachlorocyclopentadiene	1	10	U	06/27/2011 15:55
88-06-2	2,4,6-Trichlorophenol	1	10	U	06/27/2011 15:55
95-95-4	2,4,5-Trichlorophenol	1	10	U	06/27/2011 15:55
92-52-4	1,1'-Biphenyl	1	10	U	06/27/2011 15:55
91-58-7	2-Chloronaphthalene	1	10	U	06/27/2011 15:55
88-74-4	2-Nitroaniline	1	10	U	06/27/2011 15:55
131-11-3	Dimethyl phthalate	1	10	U	06/27/2011 15:55
606-20-2	2,6-Dinitrotoluene	1	10	U	06/27/2011 15:55
208-96-8	Acenaphthylene	1	10	U	06/27/2011 15:55
99-09-2	3-Nitroaniline	1	10	U	06/27/2011 15:55
83-32-9	Acenaphthene	1	10	U	06/27/2011 15:55
51-28-5	2,4-Dinitrophenol	1	10	U	06/27/2011 15:55
100-02-7	4-Nitrophenol	1	10	U	06/27/2011 15:55
132-64-9	Dibenzofuran	1	10	U	06/27/2011 15:55
121-14-2	2,4-Dinitrotoluene	1	10	U	06/27/2011 15:55
84-66-2	Diethyl phthalate	1	10	U	06/27/2011 15:55
86-73-7	Fluorene	1	10	U	06/27/2011 15:55
7005-72-3	4-Chlorophenyl-phenyl ether	1	10	U	06/27/2011 15:55
100-01-6	4-Nitroaniline	1	10	U	06/27/2011 15:55
534-52-1	4,6-Dinitro-2-methylphenol	1	10	U	06/27/2011 15:55
86-30-6	N-Nitrosodiphenylamine	1	10	U	06/27/2011 15:55
101-55-3	4-Bromophenyl-phenyl ether	1	10	U	06/27/2011 15:55
118-74-1	Hexachlorobenzene	1	10	U	06/27/2011 15:55
1912-24-9	Atrazine	1	10	U	06/27/2011 15:55
87-86-5	Pentachlorophenol	1	10	U	06/27/2011 15:55
85-01-8	Phenanthrene	1	10	U	06/27/2011 15:55
120-12-7	Anthracene	1	10	U	06/27/2011 15:55

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW01

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-002
Method: EPA 8270D
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	10	U	06/27/2011 15:55
84-74-2	Di-n-butyl phthalate	1	10	U	06/27/2011 15:55
206-44-0	Fluoranthene	1	10	U	06/27/2011 15:55
129-00-0	Pyrene	1	10	U	06/27/2011 15:55
85-68-7	Butyl benzyl phthalate	1	10	U	06/27/2011 15:55
91-94-1	3,3'-Dichlorobenzidine	1	10	U	06/27/2011 15:55
56-55-3	Benzo(a)anthracene	1	10	U	06/27/2011 15:55
218-01-9	Chrysene	1	10	U	06/27/2011 15:55
117-81-7	bis(2-Ethylhexyl) phthalate	1	10	U	06/27/2011 15:55
117-84-0	Di-n-octyl phthalate	1	10	U	06/27/2011 15:55
205-99-2	Benzo(b)fluoranthene	1	10	U	06/27/2011 15:55
207-08-9	Benzo(k)fluoranthene	1	10	U	06/27/2011 15:55
50-32-8	Benzo(a)pyrene	1	10	U	06/27/2011 15:55
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	06/27/2011 15:55
53-70-3	Dibenz(a,h)anthracene	1	10	U	06/27/2011 15:55
191-24-2	Benzo(g,h,i)perylene	1	10	U	06/27/2011 15:55

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW02

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-003
Method: EPA 8270D
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	10	U	07/04/2011 13:22
108-95-2	Phenol	1	10	U	07/04/2011 13:22
111-44-4	bis(2-Chloroethyl) ether	1	10	U	07/04/2011 13:22
95-57-8	2-Chlorophenol	1	10	U	07/04/2011 13:22
541-73-1	1,3-Dichlorobenzene	1	10	U	07/04/2011 13:22
106-46-7	1,4-Dichlorobenzene	1	10	U	07/04/2011 13:22
95-50-1	1,2-Dichlorobenzene	1	10	U	07/04/2011 13:22
95-48-7	2-Methylphenol	1	10	U	07/04/2011 13:22
108-60-1	2,2'-oxybis(1-Chloropropane)	1	10	U	07/04/2011 13:22
98-86-2	Acetophenone	1	10	U	07/04/2011 13:22
106-44-5	4-Methylphenol	1	10	U	07/04/2011 13:22
621-64-7	N-Nitroso-di-n-propylamine	1	10	U	07/04/2011 13:22
67-72-1	Hexachloroethane	1	10	U	07/04/2011 13:22
98-95-3	Nitrobenzene	1	10	U	07/04/2011 13:22
78-59-1	Isophorone	1	10	U	07/04/2011 13:22
88-75-5	2-Nitrophenol	1	10	U	07/04/2011 13:22
105-67-9	2,4-Dimethylphenol	1	10	U	07/04/2011 13:22
111-91-1	bis(2-Chloroethoxy) methane	1	10	U	07/04/2011 13:22
120-83-2	2,4-Dichlorophenol	1	10	U	07/04/2011 13:22
91-20-3	Naphthalene	1	10	U	07/04/2011 13:22
106-47-8	4-Chloroaniline	1	10	U	07/04/2011 13:22
87-68-3	Hexachlorobutadiene	1	10	U	07/04/2011 13:22
105-60-2	Caprolactam	1	10	U	07/04/2011 13:22
120-82-1	1,2,4-Trichlorobenzene	1	10	U	07/04/2011 13:22
59-50-7	4-Chloro-3-methylphenol	1	10	U	07/04/2011 13:22
91-57-6	2-Methylnaphthalene	1	10	U	07/04/2011 13:22
77-47-4	Hexachlorocyclopentadiene	1	10	U	07/04/2011 13:22
88-06-2	2,4,6-Trichlorophenol	1	10	U	07/04/2011 13:22
95-95-4	2,4,5-Trichlorophenol	1	10	U	07/04/2011 13:22
92-52-4	1,1'-Biphenyl	1	10	U	07/04/2011 13:22
91-58-7	2-Chloronaphthalene	1	10	U	07/04/2011 13:22
88-74-4	2-Nitroaniline	1	10	U	07/04/2011 13:22
131-11-3	Dimethyl phthalate	1	10	U	07/04/2011 13:22
606-20-2	2,6-Dinitrotoluene	1	10	U	07/04/2011 13:22
208-96-8	Acenaphthylene	1	10	U	07/04/2011 13:22
99-09-2	3-Nitroaniline	1	10	U	07/04/2011 13:22
83-32-9	Acenaphthene	1	10	U	07/04/2011 13:22
51-28-5	2,4-Dinitrophenol	1	10	U	07/04/2011 13:22
100-02-7	4-Nitrophenol	1	10	U	07/04/2011 13:22
132-64-9	Dibenzofuran	1	10	U	07/04/2011 13:22
121-14-2	2,4-Dinitrotoluene	1	10	U	07/04/2011 13:22
84-66-2	Diethyl phthalate	1	10	U	07/04/2011 13:22
86-73-7	Fluorene	1	10	U	07/04/2011 13:22
7005-72-3	4-Chlorophenyl-phenyl ether	1	10	U	07/04/2011 13:22
100-01-6	4-Nitroaniline	1	10	U	07/04/2011 13:22
534-52-1	4,6-Dinitro-2-methylphenol	1	10	U	07/04/2011 13:22
86-30-6	N-Nitrosodiphenylamine	1	10	U	07/04/2011 13:22
101-55-3	4-Bromophenyl-phenyl ether	1	10	U	07/04/2011 13:22
118-74-1	Hexachlorobenzene	1	10	U	07/04/2011 13:22
1912-24-9	Atrazine	1	10	U	07/04/2011 13:22
87-86-5	Pentachlorophenol	1	10	U	07/04/2011 13:22
85-01-8	Phenanthrene	1	10	U	07/04/2011 13:22
120-12-7	Anthracene	1	10	U	07/04/2011 13:22

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW02

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-003
Method: EPA 8270D
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	10	U	07/04/2011 13:22
84-74-2	Di-n-butyl phthalate	1	10	U	07/04/2011 13:22
206-44-0	Fluoranthene	1	10	U	07/04/2011 13:22
129-00-0	Pyrene	1	10	U	07/04/2011 13:22
85-68-7	Butyl benzyl phthalate	1	10	U	07/04/2011 13:22
91-94-1	3,3'-Dichlorobenzidine	1	10	U	07/04/2011 13:22
56-55-3	Benzo(a)anthracene	1	10	U	07/04/2011 13:22
218-01-9	Chrysene	1	10	U	07/04/2011 13:22
117-81-7	bis(2-Ethylhexyl) phthalate	1	10	U	07/04/2011 13:22
117-84-0	Di-n-octyl phthalate	1	10	U	07/04/2011 13:22
205-99-2	Benzo(b)fluoranthene	1	10	U	07/04/2011 13:22
207-08-9	Benzo(k)fluoranthene	1	10	U	07/04/2011 13:22
50-32-8	Benzo(a)pyrene	1	10	U	07/04/2011 13:22
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	07/04/2011 13:22
53-70-3	Dibenz(a,h)anthracene	1	10	U	07/04/2011 13:22
191-24-2	Benzo(g,h,i)perylene	1	10	U	07/04/2011 13:22

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW03

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-004
Method: EPA 8270D
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	10	U	06/27/2011 17:08
108-95-2	Phenol	1	10	U	06/27/2011 17:08
111-44-4	bis(2-Chloroethyl) ether	1	10	U	06/27/2011 17:08
95-57-8	2-Chlorophenol	1	10	U	06/27/2011 17:08
541-73-1	1,3-Dichlorobenzene	1	10	U	06/27/2011 17:08
106-46-7	1,4-Dichlorobenzene	1	10	U	06/27/2011 17:08
95-50-1	1,2-Dichlorobenzene	1	10	U	06/27/2011 17:08
95-48-7	2-Methylphenol	1	10	U	06/27/2011 17:08
108-60-1	2,2'-oxybis(1-Chloropropane)	1	10	U	06/27/2011 17:08
98-86-2	Acetophenone	1	10	U	06/27/2011 17:08
106-44-5	4-Methylphenol	1	10	U	06/27/2011 17:08
621-64-7	N-Nitroso-di-n-propylamine	1	10	U	06/27/2011 17:08
67-72-1	Hexachloroethane	1	10	U	06/27/2011 17:08
98-95-3	Nitrobenzene	1	10	U	06/27/2011 17:08
78-59-1	Isophorone	1	10	U	06/27/2011 17:08
88-75-5	2-Nitrophenol	1	10	U	06/27/2011 17:08
105-67-9	2,4-Dimethylphenol	1	10	U	06/27/2011 17:08
111-91-1	bis(2-Chloroethoxy) methane	1	10	U	06/27/2011 17:08
120-83-2	2,4-Dichlorophenol	1	10	U	06/27/2011 17:08
91-20-3	Naphthalene	1	10	U	06/27/2011 17:08
106-47-8	4-Chloroaniline	1	10	U	06/27/2011 17:08
87-68-3	Hexachlorobutadiene	1	10	U	06/27/2011 17:08
105-60-2	Caprolactam	1	10	U	06/27/2011 17:08
120-82-1	1,2,4-Trichlorobenzene	1	10	U	06/27/2011 17:08
59-50-7	4-Chloro-3-methylphenol	1	10	U	06/27/2011 17:08
91-57-6	2-Methylnaphthalene	1	10	U	06/27/2011 17:08
77-47-4	Hexachlorocyclopentadiene	1	10	U	06/27/2011 17:08
88-06-2	2,4,6-Trichlorophenol	1	10	U	06/27/2011 17:08
95-95-4	2,4,5-Trichlorophenol	1	10	U	06/27/2011 17:08
92-52-4	1,1'-Biphenyl	1	10	U	06/27/2011 17:08
91-58-7	2-Chloronaphthalene	1	10	U	06/27/2011 17:08
88-74-4	2-Nitroaniline	1	10	U	06/27/2011 17:08
131-11-3	Dimethyl phthalate	1	10	U	06/27/2011 17:08
606-20-2	2,6-Dinitrotoluene	1	10	U	06/27/2011 17:08
208-96-8	Acenaphthylene	1	10	U	06/27/2011 17:08
99-09-2	3-Nitroaniline	1	10	U	06/27/2011 17:08
83-32-9	Acenaphthene	1	10	U	06/27/2011 17:08
51-28-5	2,4-Dinitrophenol	1	10	U	06/27/2011 17:08
100-02-7	4-Nitrophenol	1	10	U	06/27/2011 17:08
132-64-9	Dibenzofuran	1	10	U	06/27/2011 17:08
121-14-2	2,4-Dinitrotoluene	1	10	U	06/27/2011 17:08
84-66-2	Diethyl phthalate	1	10	U	06/27/2011 17:08
86-73-7	Fluorene	1	10	U	06/27/2011 17:08
7005-72-3	4-Chlorophenyl-phenyl ether	1	10	U	06/27/2011 17:08
100-01-6	4-Nitroaniline	1	10	U	06/27/2011 17:08
534-52-1	4,6-Dinitro-2-methylphenol	1	10	U	06/27/2011 17:08
86-30-6	N-Nitrosodiphenylamine	1	10	U	06/27/2011 17:08
101-55-3	4-Bromophenyl-phenyl ether	1	10	U	06/27/2011 17:08
118-74-1	Hexachlorobenzene	1	10	U	06/27/2011 17:08
1912-24-9	Atrazine	1	10	U	06/27/2011 17:08
87-86-5	Pentachlorophenol	1	10	U	06/27/2011 17:08
85-01-8	Phenanthrene	1	10	U	06/27/2011 17:08
120-12-7	Anthracene	1	10	U	06/27/2011 17:08

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW03

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-004
Method: EPA 8270D
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	10	U	06/27/2011 17:08
84-74-2	Di-n-butyl phthalate	1	10	U	06/27/2011 17:08
206-44-0	Fluoranthene	1	10	U	06/27/2011 17:08
129-00-0	Pyrene	1	10	U	06/27/2011 17:08
85-68-7	Butyl benzyl phthalate	1	10	U	06/27/2011 17:08
91-94-1	3,3'-Dichlorobenzidine	1	10	U	06/27/2011 17:08
56-55-3	Benzo(a)anthracene	1	10	U	06/27/2011 17:08
218-01-9	Chrysene	1	10	U	06/27/2011 17:08
117-81-7	bis(2-Ethylhexyl) phthalate	1	10	U	06/27/2011 17:08
117-84-0	Di-n-octyl phthalate	1	10	U	06/27/2011 17:08
205-99-2	Benzo(b)fluoranthene	1	10	U	06/27/2011 17:08
207-08-9	Benzo(k)fluoranthene	1	10	U	06/27/2011 17:08
50-32-8	Benzo(a)pyrene	1	10	U	06/27/2011 17:08
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	06/27/2011 17:08
53-70-3	Dibenz(a,h)anthracene	1	10	U	06/27/2011 17:08
191-24-2	Benzo(g,h,i)perylene	1	10	U	06/27/2011 17:08

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PPMW03

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-004
Method: EPA 8270D
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	RT	Dilution Factor	Concentration	Qualifier	Analysis Time
	Unknown	23.31	1	2	J	06/29/2011 17:08

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW04

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-005
Method: EPA 8270D
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	10	U	07/04/2011 13:59
108-95-2	Phenol	1	10	U	07/04/2011 13:59
111-44-4	bis(2-Chloroethyl) ether	1	10	U	07/04/2011 13:59
95-57-8	2-Chlorophenol	1	10	U	07/04/2011 13:59
541-73-1	1,3-Dichlorobenzene	1	10	U	07/04/2011 13:59
106-46-7	1,4-Dichlorobenzene	1	10	U	07/04/2011 13:59
95-50-1	1,2-Dichlorobenzene	1	10	U	07/04/2011 13:59
95-48-7	2-Methylphenol	1	10	U	07/04/2011 13:59
108-60-1	2,2'-oxybis(1-Chloropropane)	1	10	U	07/04/2011 13:59
98-86-2	Acetophenone	1	10	U	07/04/2011 13:59
106-44-5	4-Methylphenol	1	10	U	07/04/2011 13:59
621-64-7	N-Nitroso-di-n-propylamine	1	10	U	07/04/2011 13:59
67-72-1	Hexachloroethane	1	10	U	07/04/2011 13:59
98-95-3	Nitrobenzene	1	10	U	07/04/2011 13:59
78-59-1	Isophorone	1	10	U	07/04/2011 13:59
88-75-5	2-Nitrophenol	1	10	U	07/04/2011 13:59
105-67-9	2,4-Dimethylphenol	1	10	U	07/04/2011 13:59
111-91-1	bis(2-Chloroethoxy) methane	1	10	U	07/04/2011 13:59
120-83-2	2,4-Dichlorophenol	1	10	U	07/04/2011 13:59
91-20-3	Naphthalene	1	10	U	07/04/2011 13:59
106-47-8	4-Chloroaniline	1	10	U	07/04/2011 13:59
87-68-3	Hexachlorobutadiene	1	10	U	07/04/2011 13:59
105-60-2	Caprolactam	1	10	U	07/04/2011 13:59
120-82-1	1,2,4-Trichlorobenzene	1	10	U	07/04/2011 13:59
59-50-7	4-Chloro-3-methylphenol	1	10	U	07/04/2011 13:59
91-57-6	2-Methylnaphthalene	1	10	U	07/04/2011 13:59
77-47-4	Hexachlorocyclopentadiene	1	10	U	07/04/2011 13:59
88-06-2	2,4,6-Trichlorophenol	1	10	U	07/04/2011 13:59
95-95-4	2,4,5-Trichlorophenol	1	10	U	07/04/2011 13:59
92-52-4	1,1'-Biphenyl	1	10	U	07/04/2011 13:59
91-58-7	2-Chloronaphthalene	1	10	U	07/04/2011 13:59
88-74-4	2-Nitroaniline	1	10	U	07/04/2011 13:59
131-11-3	Dimethyl phthalate	1	10	U	07/04/2011 13:59
606-20-2	2,6-Dinitrotoluene	1	10	U	07/04/2011 13:59
208-96-8	Acenaphthylene	1	10	U	07/04/2011 13:59
99-09-2	3-Nitroaniline	1	10	U	07/04/2011 13:59
83-32-9	Acenaphthene	1	10	U	07/04/2011 13:59
51-28-5	2,4-Dinitrophenol	1	10	U	07/04/2011 13:59
100-02-7	4-Nitrophenol	1	10	U	07/04/2011 13:59
132-64-9	Dibenzofuran	1	10	U	07/04/2011 13:59
121-14-2	2,4-Dinitrotoluene	1	10	U	07/04/2011 13:59
84-66-2	Diethyl phthalate	1	10	U	07/04/2011 13:59
86-73-7	Fluorene	1	10	U	07/04/2011 13:59
7005-72-3	4-Chlorophenyl-phenyl ether	1	10	U	07/04/2011 13:59
100-01-6	4-Nitroaniline	1	10	U	07/04/2011 13:59
534-52-1	4,6-Dinitro-2-methylphenol	1	10	U	07/04/2011 13:59
86-30-6	N-Nitrosodiphenylamine	1	10	U	07/04/2011 13:59
101-55-3	4-Bromophenyl-phenyl ether	1	10	U	07/04/2011 13:59
118-74-1	Hexachlorobenzene	1	10	U	07/04/2011 13:59
1912-24-9	Atrazine	1	10	U	07/04/2011 13:59
87-86-5	Pentachlorophenol	1	10	U	07/04/2011 13:59
85-01-8	Phenanthrene	1	10	U	07/04/2011 13:59
120-12-7	Anthracene	1	10	U	07/04/2011 13:59

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW04

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-005
Method: EPA 8270D
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	10	U	07/04/2011 13:59
84-74-2	Di-n-butyl phthalate	1	10	U	07/04/2011 13:59
206-44-0	Fluoranthene	1	10	U	07/04/2011 13:59
129-00-0	Pyrene	1	10	U	07/04/2011 13:59
85-68-7	Butyl benzyl phthalate	1	10	U	07/04/2011 13:59
91-94-1	3,3'-Dichlorobenzidine	1	10	U	07/04/2011 13:59
56-55-3	Benzo(a)anthracene	1	10	U	07/04/2011 13:59
218-01-9	Chrysene	1	10	U	07/04/2011 13:59
117-81-7	bis(2-Ethylhexyl) phthalate	1	10	U	07/04/2011 13:59
117-84-0	Di-n-octyl phthalate	1	10	U	07/04/2011 13:59
205-99-2	Benzo(b)fluoranthene	1	10	U	07/04/2011 13:59
207-08-9	Benzo(k)fluoranthene	1	10	U	07/04/2011 13:59
50-32-8	Benzo(a)pyrene	1	10	U	07/04/2011 13:59
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	07/04/2011 13:59
53-70-3	Dibenz(a,h)anthracene	1	10	U	07/04/2011 13:59
191-24-2	Benzo(g,h,i)perylene	1	10	U	07/04/2011 13:59

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PPMW04

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-005
Method: EPA 8270D
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	RT	Dilution Factor	Concentration	Qualifier	Analysis Time
	Unknown Hydrocarbon	21.04	1	2.1	J	07/06/2011 13:59

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW05

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-006
Method: EPA 8270D
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	10	U	06/27/2011 18:21
108-95-2	Phenol	1	10	U	06/27/2011 18:21
111-44-4	bis(2-Chloroethyl) ether	1	10	U	06/27/2011 18:21
95-57-8	2-Chlorophenol	1	10	U	06/27/2011 18:21
541-73-1	1,3-Dichlorobenzene	1	10	U	06/27/2011 18:21
106-46-7	1,4-Dichlorobenzene	1	10	U	06/27/2011 18:21
95-50-1	1,2-Dichlorobenzene	1	10	U	06/27/2011 18:21
95-48-7	2-Methylphenol	1	10	U	06/27/2011 18:21
108-60-1	2,2'-oxybis(1-Chloropropane)	1	10	U	06/27/2011 18:21
98-86-2	Acetophenone	1	10	U	06/27/2011 18:21
106-44-5	4-Methylphenol	1	10	U	06/27/2011 18:21
621-64-7	N-Nitroso-di-n-propylamine	1	10	U	06/27/2011 18:21
67-72-1	Hexachloroethane	1	10	U	06/27/2011 18:21
98-95-3	Nitrobenzene	1	10	U	06/27/2011 18:21
78-59-1	Isophorone	1	10	U	06/27/2011 18:21
88-75-5	2-Nitrophenol	1	10	U	06/27/2011 18:21
105-67-9	2,4-Dimethylphenol	1	10	U	06/27/2011 18:21
111-91-1	bis(2-Chloroethoxy) methane	1	10	U	06/27/2011 18:21
120-83-2	2,4-Dichlorophenol	1	10	U	06/27/2011 18:21
91-20-3	Naphthalene	1	10	U	06/27/2011 18:21
106-47-8	4-Chloroaniline	1	10	U	06/27/2011 18:21
87-68-3	Hexachlorobutadiene	1	10	U	06/27/2011 18:21
105-60-2	Caprolactam	1	10	U	06/27/2011 18:21
120-82-1	1,2,4-Trichlorobenzene	1	10	U	06/27/2011 18:21
59-50-7	4-Chloro-3-methylphenol	1	10	U	06/27/2011 18:21
91-57-6	2-Methylnaphthalene	1	10	U	06/27/2011 18:21
77-47-4	Hexachlorocyclopentadiene	1	10	U	06/27/2011 18:21
88-06-2	2,4,6-Trichlorophenol	1	10	U	06/27/2011 18:21
95-95-4	2,4,5-Trichlorophenol	1	10	U	06/27/2011 18:21
92-52-4	1,1'-Biphenyl	1	10	U	06/27/2011 18:21
91-58-7	2-Chloronaphthalene	1	10	U	06/27/2011 18:21
88-74-4	2-Nitroaniline	1	10	U	06/27/2011 18:21
131-11-3	Dimethyl phthalate	1	10	U	06/27/2011 18:21
606-20-2	2,6-Dinitrotoluene	1	10	U	06/27/2011 18:21
208-96-8	Acenaphthylene	1	10	U	06/27/2011 18:21
99-09-2	3-Nitroaniline	1	10	U	06/27/2011 18:21
83-32-9	Acenaphthene	1	10	U	06/27/2011 18:21
51-28-5	2,4-Dinitrophenol	1	10	U	06/27/2011 18:21
100-02-7	4-Nitrophenol	1	10	U	06/27/2011 18:21
132-64-9	Dibenzofuran	1	10	U	06/27/2011 18:21
121-14-2	2,4-Dinitrotoluene	1	10	U	06/27/2011 18:21
84-66-2	Diethyl phthalate	1	10	U	06/27/2011 18:21
86-73-7	Fluorene	1	10	U	06/27/2011 18:21
7005-72-3	4-Chlorophenyl-phenyl ether	1	10	U	06/27/2011 18:21
100-01-6	4-Nitroaniline	1	10	U	06/27/2011 18:21
534-52-1	4,6-Dinitro-2-methylphenol	1	10	U	06/27/2011 18:21
86-30-6	N-Nitrosodiphenylamine	1	10	U	06/27/2011 18:21
101-55-3	4-Bromophenyl-phenyl ether	1	10	U	06/27/2011 18:21
118-74-1	Hexachlorobenzene	1	10	U	06/27/2011 18:21
1912-24-9	Atrazine	1	10	U	06/27/2011 18:21
87-86-5	Pentachlorophenol	1	10	U	06/27/2011 18:21
85-01-8	Phenanthrene	1	10	U	06/27/2011 18:21
120-12-7	Anthracene	1	10	U	06/27/2011 18:21

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW05

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-006
Method: EPA 8270D
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	10	U	06/27/2011 18:21
84-74-2	Di-n-butyl phthalate	1	10	U	06/27/2011 18:21
206-44-0	Fluoranthene	1	10	U	06/27/2011 18:21
129-00-0	Pyrene	1	10	U	06/27/2011 18:21
85-68-7	Butyl benzyl phthalate	1	10	U	06/27/2011 18:21
91-94-1	3,3'-Dichlorobenzidine	1	10	U	06/27/2011 18:21
56-55-3	Benzo(a)anthracene	1	10	U	06/27/2011 18:21
218-01-9	Chrysene	1	10	U	06/27/2011 18:21
117-81-7	bis(2-Ethylhexyl) phthalate	1	1	J	06/27/2011 18:21
117-84-0	Di-n-octyl phthalate	1	10	U	06/27/2011 18:21
205-99-2	Benzo(b)fluoranthene	1	10	U	06/27/2011 18:21
207-08-9	Benzo(k)fluoranthene	1	10	U	06/27/2011 18:21
50-32-8	Benzo(a)pyrene	1	10	U	06/27/2011 18:21
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	06/27/2011 18:21
53-70-3	Dibenz(a,h)anthracene	1	10	U	06/27/2011 18:21
191-24-2	Benzo(g,h,i)perylene	1	10	U	06/27/2011 18:21

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW06

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-007
Method: EPA 8270D
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	10	U	07/04/2011 14:35
108-95-2	Phenol	1	10	U	07/04/2011 14:35
111-44-4	bis(2-Chloroethyl) ether	1	10	U	07/04/2011 14:35
95-57-8	2-Chlorophenol	1	10	U	07/04/2011 14:35
541-73-1	1,3-Dichlorobenzene	1	10	U	07/04/2011 14:35
106-46-7	1,4-Dichlorobenzene	1	10	U	07/04/2011 14:35
95-50-1	1,2-Dichlorobenzene	1	10	U	07/04/2011 14:35
95-48-7	2-Methylphenol	1	10	U	07/04/2011 14:35
108-60-1	2,2'-oxybis(1-Chloropropane)	1	10	U	07/04/2011 14:35
98-86-2	Acetophenone	1	10	U	07/04/2011 14:35
106-44-5	4-Methylphenol	1	10	U	07/04/2011 14:35
621-64-7	N-Nitroso-di-n-propylamine	1	10	U	07/04/2011 14:35
67-72-1	Hexachloroethane	1	10	U	07/04/2011 14:35
98-95-3	Nitrobenzene	1	10	U	07/04/2011 14:35
78-59-1	Isophorone	1	10	U	07/04/2011 14:35
88-75-5	2-Nitrophenol	1	10	U	07/04/2011 14:35
105-67-9	2,4-Dimethylphenol	1	10	U	07/04/2011 14:35
111-91-1	bis(2-Chloroethoxy) methane	1	10	U	07/04/2011 14:35
120-83-2	2,4-Dichlorophenol	1	10	U	07/04/2011 14:35
91-20-3	Naphthalene	1	10	U	07/04/2011 14:35
106-47-8	4-Chloroaniline	1	10	U	07/04/2011 14:35
87-68-3	Hexachlorobutadiene	1	10	U	07/04/2011 14:35
105-60-2	Caprolactam	1	10	U	07/04/2011 14:35
120-82-1	1,2,4-Trichlorobenzene	1	10	U	07/04/2011 14:35
59-50-7	4-Chloro-3-methylphenol	1	10	U	07/04/2011 14:35
91-57-6	2-Methylnaphthalene	1	10	U	07/04/2011 14:35
77-47-4	Hexachlorocyclopentadiene	1	10	U	07/04/2011 14:35
88-06-2	2,4,6-Trichlorophenol	1	10	U	07/04/2011 14:35
95-95-4	2,4,5-Trichlorophenol	1	10	U	07/04/2011 14:35
92-52-4	1,1'-Biphenyl	1	10	U	07/04/2011 14:35
91-58-7	2-Chloronaphthalene	1	10	U	07/04/2011 14:35
88-74-4	2-Nitroaniline	1	10	U	07/04/2011 14:35
131-11-3	Dimethyl phthalate	1	10	U	07/04/2011 14:35
606-20-2	2,6-Dinitrotoluene	1	10	U	07/04/2011 14:35
208-96-8	Acenaphthylene	1	10	U	07/04/2011 14:35
99-09-2	3-Nitroaniline	1	10	U	07/04/2011 14:35
83-32-9	Acenaphthene	1	10	U	07/04/2011 14:35
51-28-5	2,4-Dinitrophenol	1	10	U	07/04/2011 14:35
100-02-7	4-Nitrophenol	1	10	U	07/04/2011 14:35
132-64-9	Dibenzofuran	1	10	U	07/04/2011 14:35
121-14-2	2,4-Dinitrotoluene	1	10	U	07/04/2011 14:35
84-66-2	Diethyl phthalate	1	10	U	07/04/2011 14:35
86-73-7	Fluorene	1	10	U	07/04/2011 14:35
7005-72-3	4-Chlorophenyl-phenyl ether	1	10	U	07/04/2011 14:35
100-01-6	4-Nitroaniline	1	10	U	07/04/2011 14:35
534-52-1	4,6-Dinitro-2-methylphenol	1	10	U	07/04/2011 14:35
86-30-6	N-Nitrosodiphenylamine	1	10	U	07/04/2011 14:35
101-55-3	4-Bromophenyl-phenyl ether	1	10	U	07/04/2011 14:35
118-74-1	Hexachlorobenzene	1	10	U	07/04/2011 14:35
1912-24-9	Atrazine	1	10	U	07/04/2011 14:35
87-86-5	Pentachlorophenol	1	10	U	07/04/2011 14:35
85-01-8	Phenanthrene	1	10	U	07/04/2011 14:35
120-12-7	Anthracene	1	10	U	07/04/2011 14:35

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PPMW06

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-007
Method: EPA 8270D
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	10	U	07/04/2011 14:35
84-74-2	Di-n-butyl phthalate	1	10	U	07/04/2011 14:35
206-44-0	Fluoranthene	1	10	U	07/04/2011 14:35
129-00-0	Pyrene	1	10	U	07/04/2011 14:35
85-68-7	Butyl benzyl phthalate	1	10	U	07/04/2011 14:35
91-94-1	3,3'-Dichlorobenzidine	1	10	U	07/04/2011 14:35
56-55-3	Benzo(a)anthracene	1	10	U	07/04/2011 14:35
218-01-9	Chrysene	1	10	U	07/04/2011 14:35
117-81-7	bis(2-Ethylhexyl) phthalate	1	10	U	07/04/2011 14:35
117-84-0	Di-n-octyl phthalate	1	10	U	07/04/2011 14:35
205-99-2	Benzo(b)fluoranthene	1	10	U	07/04/2011 14:35
207-08-9	Benzo(k)fluoranthene	1	10	U	07/04/2011 14:35
50-32-8	Benzo(a)pyrene	1	10	U	07/04/2011 14:35
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	07/04/2011 14:35
53-70-3	Dibenz(a,h)anthracene	1	10	U	07/04/2011 14:35
191-24-2	Benzo(g,h,i)perylene	1	10	U	07/04/2011 14:35

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

PPMW06

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-007
Method: EPA 8270D
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	RT	Dilution Factor	Concentration	Qualifier	Analysis Time
	Unknown	5.39	1	2.2	J	07/06/2011 14:35

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-1

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-008
Method: EPA 8270D
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	10	U	06/27/2011 19:35
108-95-2	Phenol	1	10	U	06/27/2011 19:35
111-44-4	bis(2-Chloroethyl) ether	1	10	U	06/27/2011 19:35
95-57-8	2-Chlorophenol	1	10	U	06/27/2011 19:35
541-73-1	1,3-Dichlorobenzene	1	10	U	06/27/2011 19:35
106-46-7	1,4-Dichlorobenzene	1	10	U	06/27/2011 19:35
95-50-1	1,2-Dichlorobenzene	1	10	U	06/27/2011 19:35
95-48-7	2-Methylphenol	1	10	U	06/27/2011 19:35
108-60-1	2,2'-oxybis(1-Chloropropane)	1	10	U	06/27/2011 19:35
98-86-2	Acetophenone	1	10	U	06/27/2011 19:35
106-44-5	4-Methylphenol	1	10	U	06/27/2011 19:35
621-64-7	N-Nitroso-di-n-propylamine	1	10	U	06/27/2011 19:35
67-72-1	Hexachloroethane	1	10	U	06/27/2011 19:35
98-95-3	Nitrobenzene	1	10	U	06/27/2011 19:35
78-59-1	Isophorone	1	10	U	06/27/2011 19:35
88-75-5	2-Nitrophenol	1	10	U	06/27/2011 19:35
105-67-9	2,4-Dimethylphenol	1	10	U	06/27/2011 19:35
111-91-1	bis(2-Chloroethoxy) methane	1	10	U	06/27/2011 19:35
120-83-2	2,4-Dichlorophenol	1	10	U	06/27/2011 19:35
91-20-3	Naphthalene	1	10	U	06/27/2011 19:35
106-47-8	4-Chloroaniline	1	10	U	06/27/2011 19:35
87-68-3	Hexachlorobutadiene	1	10	U	06/27/2011 19:35
105-60-2	Caprolactam	1	10	U	06/27/2011 19:35
120-82-1	1,2,4-Trichlorobenzene	1	10	U	06/27/2011 19:35
59-50-7	4-Chloro-3-methylphenol	1	10	U	06/27/2011 19:35
91-57-6	2-Methylnaphthalene	1	10	U	06/27/2011 19:35
77-47-4	Hexachlorocyclopentadiene	1	10	U	06/27/2011 19:35
88-06-2	2,4,6-Trichlorophenol	1	10	U	06/27/2011 19:35
95-95-4	2,4,5-Trichlorophenol	1	10	U	06/27/2011 19:35
92-52-4	1,1'-Biphenyl	1	10	U	06/27/2011 19:35
91-58-7	2-Chloronaphthalene	1	10	U	06/27/2011 19:35
88-74-4	2-Nitroaniline	1	10	U	06/27/2011 19:35
131-11-3	Dimethyl phthalate	1	10	U	06/27/2011 19:35
606-20-2	2,6-Dinitrotoluene	1	10	U	06/27/2011 19:35
208-96-8	Acenaphthylene	1	10	U	06/27/2011 19:35
99-09-2	3-Nitroaniline	1	10	U	06/27/2011 19:35
83-32-9	Acenaphthene	1	10	U	06/27/2011 19:35
51-28-5	2,4-Dinitrophenol	1	10	U	06/27/2011 19:35
100-02-7	4-Nitrophenol	1	10	U	06/27/2011 19:35
132-64-9	Dibenzofuran	1	10	U	06/27/2011 19:35
121-14-2	2,4-Dinitrotoluene	1	10	U	06/27/2011 19:35
84-66-2	Diethyl phthalate	1	10	U	06/27/2011 19:35
86-73-7	Fluorene	1	10	U	06/27/2011 19:35
7005-72-3	4-Chlorophenyl-phenyl ether	1	10	U	06/27/2011 19:35
100-01-6	4-Nitroaniline	1	10	U	06/27/2011 19:35
534-52-1	4,6-Dinitro-2-methylphenol	1	10	U	06/27/2011 19:35
86-30-6	N-Nitrosodiphenylamine	1	10	U	06/27/2011 19:35
101-55-3	4-Bromophenyl-phenyl ether	1	10	U	06/27/2011 19:35
118-74-1	Hexachlorobenzene	1	10	U	06/27/2011 19:35
1912-24-9	Atrazine	1	10	U	06/27/2011 19:35
87-86-5	Pentachlorophenol	1	10	U	06/27/2011 19:35
85-01-8	Phenanthrene	1	10	U	06/27/2011 19:35
120-12-7	Anthracene	1	10	U	06/27/2011 19:35

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DUP-1

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: 1106041-008
Method: EPA 8270D
Date/Time Received: 06/17/2011 12:55
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	10	U	06/27/2011 19:35
84-74-2	Di-n-butyl phthalate	1	10	U	06/27/2011 19:35
206-44-0	Fluoranthene	1	10	U	06/27/2011 19:35
129-00-0	Pyrene	1	10	U	06/27/2011 19:35
85-68-7	Butyl benzyl phthalate	1	10	U	06/27/2011 19:35
91-94-1	3,3'-Dichlorobenzidine	1	10	U	06/27/2011 19:35
56-55-3	Benzo(a)anthracene	1	10	U	06/27/2011 19:35
218-01-9	Chrysene	1	10	U	06/27/2011 19:35
117-81-7	bis(2-Ethylhexyl) phthalate	1	10	U	06/27/2011 19:35
117-84-0	Di-n-octyl phthalate	1	10	U	06/27/2011 19:35
205-99-2	Benzo(b)fluoranthene	1	10	U	06/27/2011 19:35
207-08-9	Benzo(k)fluoranthene	1	10	U	06/27/2011 19:35
50-32-8	Benzo(a)pyrene	1	10	U	06/27/2011 19:35
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	06/27/2011 19:35
53-70-3	Dibenz(a,h)anthracene	1	10	U	06/27/2011 19:35
191-24-2	Benzo(g,h,i)perylene	1	10	U	06/27/2011 19:35

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Method Blank

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: Method Blank
Method: EPA 8270D
Date/Time Received:
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	10	U	06/29/2011 14:04
108-95-2	Phenol	1	10	U	06/29/2011 14:04
111-44-4	bis(2-Chloroethyl) ether	1	10	U	06/29/2011 14:04
95-57-8	2-Chlorophenol	1	10	U	06/29/2011 14:04
541-73-1	1,3-Dichlorobenzene	1	10	U	06/29/2011 14:04
106-46-7	1,4-Dichlorobenzene	1	10	U	06/29/2011 14:04
95-50-1	1,2-Dichlorobenzene	1	10	U	06/29/2011 14:04
95-48-7	2-Methylphenol	1	10	U	06/29/2011 14:04
108-60-1	2,2'-oxybis(1-Chloropropane)	1	10	U	06/29/2011 14:04
98-86-2	Acetophenone	1	10	U	06/29/2011 14:04
106-44-5	4-Methylphenol	1	10	U	06/29/2011 14:04
621-64-7	N-Nitroso-di-n-propylamine	1	10	U	06/29/2011 14:04
67-72-1	Hexachloroethane	1	10	U	06/29/2011 14:04
98-95-3	Nitrobenzene	1	10	U	06/29/2011 14:04
78-59-1	Isophorone	1	10	U	06/29/2011 14:04
88-75-5	2-Nitrophenol	1	10	U	06/29/2011 14:04
105-67-9	2,4-Dimethylphenol	1	10	U	06/29/2011 14:04
111-91-1	bis(2-Chloroethoxy) methane	1	10	U	06/29/2011 14:04
120-83-2	2,4-Dichlorophenol	1	10	U	06/29/2011 14:04
91-20-3	Naphthalene	1	10	U	06/29/2011 14:04
106-47-8	4-Chloroaniline	1	10	U	06/29/2011 14:04
87-68-3	Hexachlorobutadiene	1	10	U	06/29/2011 14:04
105-60-2	Caprolactam	1	10	U	06/29/2011 14:04
120-82-1	1,2,4-Trichlorobenzene	1	10	U	06/29/2011 14:04
59-50-7	4-Chloro-3-methylphenol	1	10	U	06/29/2011 14:04
91-57-6	2-Methylnaphthalene	1	10	U	06/29/2011 14:04
77-47-4	Hexachlorocyclopentadiene	1	10	U	06/29/2011 14:04
88-06-2	2,4,6-Trichlorophenol	1	10	U	06/29/2011 14:04
95-95-4	2,4,5-Trichlorophenol	1	10	U	06/29/2011 14:04
92-52-4	1,1'-Biphenyl	1	10	U	06/29/2011 14:04
91-58-7	2-Chloronaphthalene	1	10	U	06/29/2011 14:04
88-74-4	2-Nitroaniline	1	10	U	06/29/2011 14:04
131-11-3	Dimethyl phthalate	1	10	U	06/29/2011 14:04
606-20-2	2,6-Dinitrotoluene	1	10	U	06/29/2011 14:04
208-96-8	Acenaphthylene	1	10	U	06/29/2011 14:04
99-09-2	3-Nitroaniline	1	10	U	06/29/2011 14:04
83-32-9	Acenaphthene	1	10	U	06/29/2011 14:04
51-28-5	2,4-Dinitrophenol	1	10	U	06/29/2011 14:04
100-02-7	4-Nitrophenol	1	10	U	06/29/2011 14:04
132-64-9	Dibenzofuran	1	10	U	06/29/2011 14:04
121-14-2	2,4-Dinitrotoluene	1	10	U	06/29/2011 14:04
84-66-2	Diethyl phthalate	1	10	U	06/29/2011 14:04
86-73-7	Fluorene	1	10	U	06/29/2011 14:04
7005-72-3	4-Chlorophenyl-phenyl ether	1	10	U	06/29/2011 14:04
100-01-6	4-Nitroaniline	1	10	U	06/29/2011 14:04
534-52-1	4,6-Dinitro-2-methylphenol	1	10	U	06/29/2011 14:04
86-30-6	N-Nitrosodiphenylamine	1	10	U	06/29/2011 14:04
101-55-3	4-Bromophenyl-phenyl ether	1	10	U	06/29/2011 14:04
118-74-1	Hexachlorobenzene	1	10	U	06/29/2011 14:04
1912-24-9	Atrazine	1	10	U	06/29/2011 14:04
87-86-5	Pentachlorophenol	1	10	U	06/29/2011 14:04
85-01-8	Phenanthrene	1	10	U	06/29/2011 14:04
120-12-7	Anthracene	1	10	U	06/29/2011 14:04

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Method Blank

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: Method Blank
Method: EPA 8270D
Date/Time Received:
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	10	U	06/29/2011 14:04
84-74-2	Di-n-butyl phthalate	1	10	U	06/29/2011 14:04
206-44-0	Fluoranthene	1	10	U	06/29/2011 14:04
129-00-0	Pyrene	1	10	U	06/29/2011 14:04
85-68-7	Butyl benzyl phthalate	1	10	U	06/29/2011 14:04
91-94-1	3,3'-Dichlorobenzidine	1	10	U	06/29/2011 14:04
56-55-3	Benzo(a)anthracene	1	10	U	06/29/2011 14:04
218-01-9	Chrysene	1	10	U	06/29/2011 14:04
117-81-7	bis(2-Ethylhexyl) phthalate	1	10	U	06/29/2011 14:04
117-84-0	Di-n-octyl phthalate	1	10	U	06/29/2011 14:04
205-99-2	Benzo(b)fluoranthene	1	10	U	06/29/2011 14:04
207-08-9	Benzo(k)fluoranthene	1	10	U	06/29/2011 14:04
50-32-8	Benzo(a)pyrene	1	10	U	06/29/2011 14:04
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	06/29/2011 14:04
53-70-3	Dibenz(a,h)anthracene	1	10	U	06/29/2011 14:04
191-24-2	Benzo(g,h,i)perylene	1	10	U	06/29/2011 14:04

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Method Blank 2

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: Method Blank 2
Method: EPA 8270D
Date/Time Received:
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
100-52-7	Benzaldehyde	1	10	U	07/06/2011 12:46
108-95-2	Phenol	1	10	U	07/06/2011 12:46
111-44-4	bis(2-Chloroethyl) ether	1	10	U	07/06/2011 12:46
95-57-8	2-Chlorophenol	1	10	U	07/06/2011 12:46
541-73-1	1,3-Dichlorobenzene	1	10	U	07/06/2011 12:46
106-46-7	1,4-Dichlorobenzene	1	10	U	07/06/2011 12:46
95-50-1	1,2-Dichlorobenzene	1	10	U	07/06/2011 12:46
95-48-7	2-Methylphenol	1	10	U	07/06/2011 12:46
108-60-1	2,2'-oxybis(1-Chloropropane)	1	10	U	07/06/2011 12:46
98-86-2	Acetophenone	1	10	U	07/06/2011 12:46
106-44-5	4-Methylphenol	1	10	U	07/06/2011 12:46
621-64-7	N-Nitroso-di-n-propylamine	1	10	U	07/06/2011 12:46
67-72-1	Hexachloroethane	1	10	U	07/06/2011 12:46
98-95-3	Nitrobenzene	1	10	U	07/06/2011 12:46
78-59-1	Isophorone	1	10	U	07/06/2011 12:46
88-75-5	2-Nitrophenol	1	10	U	07/06/2011 12:46
105-67-9	2,4-Dimethylphenol	1	10	U	07/06/2011 12:46
111-91-1	bis(2-Chloroethoxy) methane	1	10	U	07/06/2011 12:46
120-83-2	2,4-Dichlorophenol	1	10	U	07/06/2011 12:46
91-20-3	Naphthalene	1	10	U	07/06/2011 12:46
106-47-8	4-Chloroaniline	1	10	U	07/06/2011 12:46
87-68-3	Hexachlorobutadiene	1	10	U	07/06/2011 12:46
105-60-2	Caprolactam	1	10	U	07/06/2011 12:46
120-82-1	1,2,4-Trichlorobenzene	1	10	U	07/06/2011 12:46
59-50-7	4-Chloro-3-methylphenol	1	10	U	07/06/2011 12:46
91-57-6	2-Methylnaphthalene	1	10	U	07/06/2011 12:46
77-47-4	Hexachlorocyclopentadiene	1	10	U	07/06/2011 12:46
88-06-2	2,4,6-Trichlorophenol	1	10	U	07/06/2011 12:46
95-95-4	2,4,5-Trichlorophenol	1	10	U	07/06/2011 12:46
92-52-4	1,1'-Biphenyl	1	10	U	07/06/2011 12:46
91-58-7	2-Chloronaphthalene	1	10	U	07/06/2011 12:46
88-74-4	2-Nitroaniline	1	10	U	07/06/2011 12:46
131-11-3	Dimethyl phthalate	1	10	U	07/06/2011 12:46
606-20-2	2,6-Dinitrotoluene	1	10	U	07/06/2011 12:46
208-96-8	Acenaphthylene	1	10	U	07/06/2011 12:46
99-09-2	3-Nitroaniline	1	10	U	07/06/2011 12:46
83-32-9	Acenaphthene	1	10	U	07/06/2011 12:46
51-28-5	2,4-Dinitrophenol	1	10	U	07/06/2011 12:46
100-02-7	4-Nitrophenol	1	10	U	07/06/2011 12:46
132-64-9	Dibenzofuran	1	10	U	07/06/2011 12:46
121-14-2	2,4-Dinitrotoluene	1	10	U	07/06/2011 12:46
84-66-2	Diethyl phthalate	1	10	U	07/06/2011 12:46
86-73-7	Fluorene	1	10	U	07/06/2011 12:46
7005-72-3	4-Chlorophenyl-phenyl ether	1	10	U	07/06/2011 12:46
100-01-6	4-Nitroaniline	1	10	U	07/06/2011 12:46
534-52-1	4,6-Dinitro-2-methylphenol	1	10	U	07/06/2011 12:46
86-30-6	N-Nitrosodiphenylamine	1	10	U	07/06/2011 12:46
101-55-3	4-Bromophenyl-phenyl ether	1	10	U	07/06/2011 12:46
118-74-1	Hexachlorobenzene	1	10	U	07/06/2011 12:46
1912-24-9	Atrazine	1	10	U	07/06/2011 12:46
87-86-5	Pentachlorophenol	1	10	U	07/06/2011 12:46
85-01-8	Phenanthrene	1	10	U	07/06/2011 12:46
120-12-7	Anthracene	1	10	U	07/06/2011 12:46

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Method Blank 2

Lab Name: DNREC Environmental Laboratory Section
Lab QC Batch ID: SVOA-1106041
Matrix: Ground Water
Lab Sample ID: Method Blank 2
Method: EPA 8270D
Date/Time Received:
Concentration Units (ug/L or mg/kg dry weight) : UG/L
Percent Moisture: Not Applicable

CAS No.	Compound	Dilution Factor	Concentration	Qualifier	Analysis Time
86-74-8	Carbazole	1	10	U	07/06/2011 12:46
84-74-2	Di-n-butyl phthalate	1	10	U	07/06/2011 12:46
206-44-0	Fluoranthene	1	10	U	07/06/2011 12:46
129-00-0	Pyrene	1	10	U	07/06/2011 12:46
85-68-7	Butyl benzyl phthalate	1	10	U	07/06/2011 12:46
91-94-1	3,3'-Dichlorobenzidine	1	10	U	07/06/2011 12:46
56-55-3	Benzo(a)anthracene	1	10	U	07/06/2011 12:46
218-01-9	Chrysene	1	10	U	07/06/2011 12:46
117-81-7	bis(2-Ethylhexyl) phthalate	1	10	U	07/06/2011 12:46
117-84-0	Di-n-octyl phthalate	1	10	U	07/06/2011 12:46
205-99-2	Benzo(b)fluoranthene	1	10	U	07/06/2011 12:46
207-08-9	Benzo(k)fluoranthene	1	10	U	07/06/2011 12:46
50-32-8	Benzo(a)pyrene	1	10	U	07/06/2011 12:46
193-39-5	Indeno(1,2,3-cd)pyrene	1	10	U	07/06/2011 12:46
53-70-3	Dibenz(a,h)anthracene	1	10	U	07/06/2011 12:46
191-24-2	Benzo(g,h,i)perylene	1	10	U	07/06/2011 12:46

SYSTEM MONITORING COMPOUND REPORT

Lab Name: DNREC Environmental Laboratory Section **Lab Order ID:** 1106041

Test Group Semivolatiles **QCBatchID:** SVOA-1106041

Matrix Type: Water

ELS Sample Number	QC Number	SMC1	SMC2	SMC3	SMC4	SMC5	SMC6	SMC7	SMC8	Total Out
1106041-002		54	57	59	58	74	69	53	71	0
1106041-003		80	86	82	81	86	76	77	54	0
1106041-004		50	57	54	57	61	67	75	75	0
1106041-005		83	84	82	80	87	87	93	86	0
1106041-006		72	76	72	73	80	85	64	89	0
1106041-007		54	59	53	59	61	71	76	76	0
1106041-008		52	59	59	61	75	76	75	84	0
LCSD-W	1	46	51	58	56	66	64	67	70	0
LCS-W	1	60	66	64	66	78	75	63	87	0
Method Blank	1	75	82	77	75	81	78	79	91	0
Method Blank 2	1	65	69	65	63	77	75	80	85	0

		QC Limits
SMC1	2-Fluorophenol	21-110
SMC2	Phenol-d5	10-110
SMC3	2-Chlorophenol-d4	33-110
SMC4	1,2-Dichlorobenzene-d4	16-110
SMC5	Nitrobenzene-d5	35-114
SMC6	2-Fluorobiphenyl	43-116
SMC7	2,4,6-Tribromophenol	10-123
SMC8	Terphenyl-d14	33-141

MATRIX SPIKE / MATRIX SPIKE DUPLICATE / DUPLICATE RECOVERY

Lab Name: DNREC Environmental Laboratory Section **Lab Order ID:** 1106041

Test Group SVOA **QCBatchID:** SVOA-1106041

Matrix Spike - Sample No.: LCSD-W **Matrix Type:** Liquid

LCS							
Compound	**Spike Added**	**Sample Concentration**	**QC Sample Concentration**	**Percent Recovery**	**RPD**	**QC Limits**	
						RPD	**REC.**
1,2,4-Trichlorobenze	50.000		29	58	23	0-28	39-98
1,4-Dichlorobenzene	50.000		25	49	22	0-28	36-97
2,4-Dinitrotoluene	50.000		38	76	6	0-38	24-96
2-Chlorophenol	75.000		44	58	10	0-40	27-123
4-Chloro-3-methylph	75.000		53	70	12	0-42	23-97
4-Nitrophenol	75.000		53	70	12	0-50	10-80
Acenaphthene	50.000		35	69	9	0-31	46-118
N-Nitroso-di-n-propyl	50.000		34	69	15	0-38	41-116
Pentachlorophenol	75.000		23	31	89 *	0-50	9-103
Phenol	75.000		39	52	31	0-42	12-110
Pyrene	50.000		37	73	15	0-31	26-127

*** Values outside of QC Limits**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE / DUPLICATE RECOVERY

Lab Name: DNREC Environmental Laboratory Section **Lab Order ID:** 1106041

Test Group SVOA **QCBatchID:** SVOA-1106041

Matrix Spike - Sample No.: LCS-W **Matrix Type:** Liquid

LCS							
Compound	Spike Added	Sample Concentration	QC Sample Concentration	Percent Recovery	RPD	QC Limits	
						RPD	REC.
1,2,4-Trichlorobenze	50.000		36	73			39-98
1,4-Dichlorobenzene	50.000		31	62			36-97
2,4-Dinitrotoluene	50.000		40	81			24-96
2-Chlorophenol	75.000		48	64			27-123
4-Chloro-3-methylph	75.000		59	79			23-97
4-Nitrophenol	75.000		59	79			10-80
Acenaphthene	50.000		38	76			46-118
N-Nitroso-di-n-propyl	50.000		40	80			41-116
Pentachlorophenol	75.000		9	12			9-103
Phenol	75.000		53	70			12-110
Pyrene	50.000		43	86			26-127

*** Values outside of QC Limits**

GC/MS QA-QC Check Report

Tune File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08175.D
Tune Time : 29 Jun 2011 1:04 pm

Daily Calibration File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08176.D

(2FP)	(PHL)	(2CP)	(DCB)	(DCB)	(NPT)	(ANT)
				36771	135925	82458

(NBZ)	(FBP)	(TBP)	(TPH)	(PHN)	(CRY)	(PRY)
				177954	207611	184785

File	Sample	Surrogate Recovery %				Internal Standard Responses		
A08177.D	METHOD B	75	82	77	75	29234	113028	73500
		81	77	79	91	145206	156117	135545
A08179.D	LCSD-W	46	51	58	56	20576	71702	45085
		66	64	67	70	98056	122343	108026
A08180.D	1106041-	54	57	59	58	23689	78314	51425
		74	69	53	71	106093	115969	97717
A08182.D	1106041-	50	57	54	57	31090	108163	65628
		61	67	75	75	126567	140702	112036
A08184.D	1106041-	72	76	72	73	26636	96785	59676
		80	85	64	89	115351	134485	108624
A08186.D	1106041-	52	59	59	61	25032	81057	54143
		75	76	75	84	105127	117083	112270
A08187.D	LCS-W	60	66	64	66	22727	80461	56369
		78	75	63	87	113418	118715	98701

t - fails 12hr time check * - fails criteria

Created: Thu Jun 30 11:00:53 2011 DEL6

GC/MS QA-QC Check Report

Tune File : C:\MSDCHEM.1\DATA\MS60706L.MIZ\A08215.D
Tune Time : 6 Jul 2011 9:19 am

Daily Calibration File : C:\MSDCHEM.1\DATA\MS60706L.MIZ\A08219.D

(2FP)	(PHL)	(2CP)	(DCB)	(DCB)	(NPT)	(ANT)
				46500	171661	109347

(NBZ)	(FBP)	(TBP)	(TPH)	(PHN)	(CRY)	(PRY)
				216631	249582	217370

File	Sample	Surrogate Recovery %				Internal Standard Responses		
A08220.D	METHOD B	65	69	65	63	61636	192003	117709
		77	75	80	85	231071	247994	201866
A08221.D	1106041-	80	86	82	81	57569	205223	137462
		86	76	77	54	302882	402598	309570
A08222.D	1106041-	83	84	82	80	58256	203516	125510
		87	87	93	86	241243	284472	246167
A08223.D	1106041-	54	59	53	59	54516	187440	100594
		61	71	76	76	192270	198749	159784

t - fails 12hr time check * - fails criteria

Created: Thu Jul 07 13:06:13 2011 DEL6

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08180.D Vial: 10
Acq On : 29 Jun 2011 3:55 pm Operator: MIZ
Sample : 1106041-002 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 30 08:10:43 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.67	152	23689	20.00	ng/µl	0.00
19) Naphthalene-d8	7.14	136	78314	20.00	ng/µl	0.00
34) Acenaphthene-d10	9.97	164	51425	20.00	ng/µl	0.00
56) Phenanthrene-d10	12.78	188	106093	20.00	ng/µl	0.00
68) Chrysene-d12	18.15	240	115969	20.00	ng/µl	0.00
76) Perylene-d12	21.05	264	97717	20.00	ng/µl	0.00

System Monitoring Compounds

2) 2-Fluorophenol	4.60	112	116516	40.83	ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 54.44%			
4) Phenol-d5	5.34	99	174593	42.82	ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 57.09%			
6) 2-Chlorophenol-d4	5.50	132	119365	44.54	ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 59.39%			
11) 1,2-Dichlorobenzene-d4	5.87	152	58894	28.85	ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 57.70%			
20) Nitrobenzene-d5	6.27	82	143715	37.18	ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 74.36%			
38) 2-Fluorobiphenyl	8.76	172	228786	34.55	ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 69.10%			
55) 2,4,6-Tribromophenol	11.46	330	28771	39.98	ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 53.31%			
70) Terphenyl-d14	16.02	244	259244	35.69	ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 71.38%			

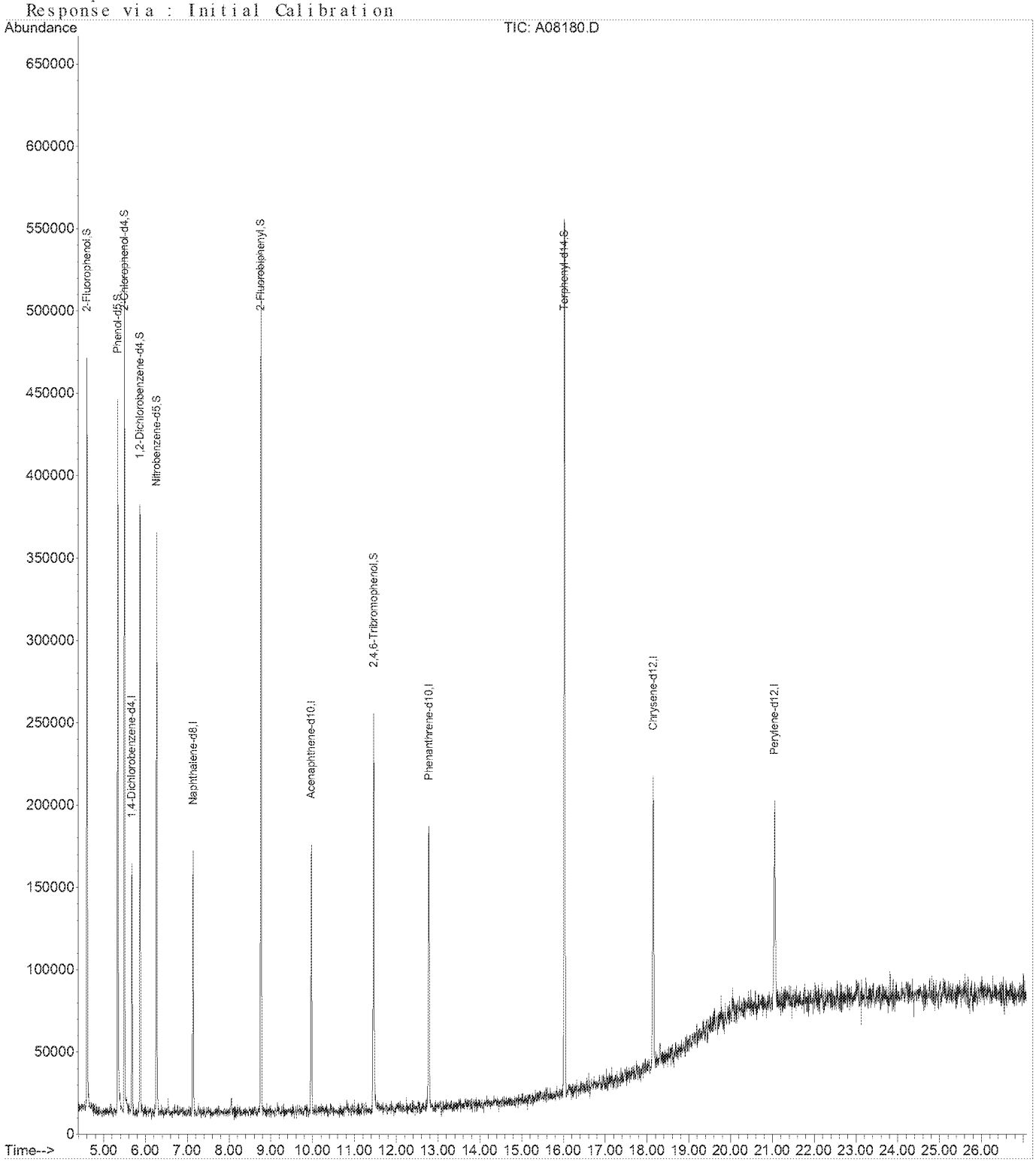
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08180.D Vial: 10
Acq On : 29 Jun 2011 3:55 pm Operator: MIZ
Sample : 1106041-002 Inst : DEL6
Msc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 30 8:48 2011 Quant Results File: I60629.RES

Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM1\DATA\M560629L.MIZ\A08180.D Vial: 10
Acq On : 29 Jun 2011 3:55 pm Operator: MIZ
Sample : 1106041-002 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM1\METHODS\I60629.M(RTE Integrator)
Title : HSCA TCL + ANILINE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

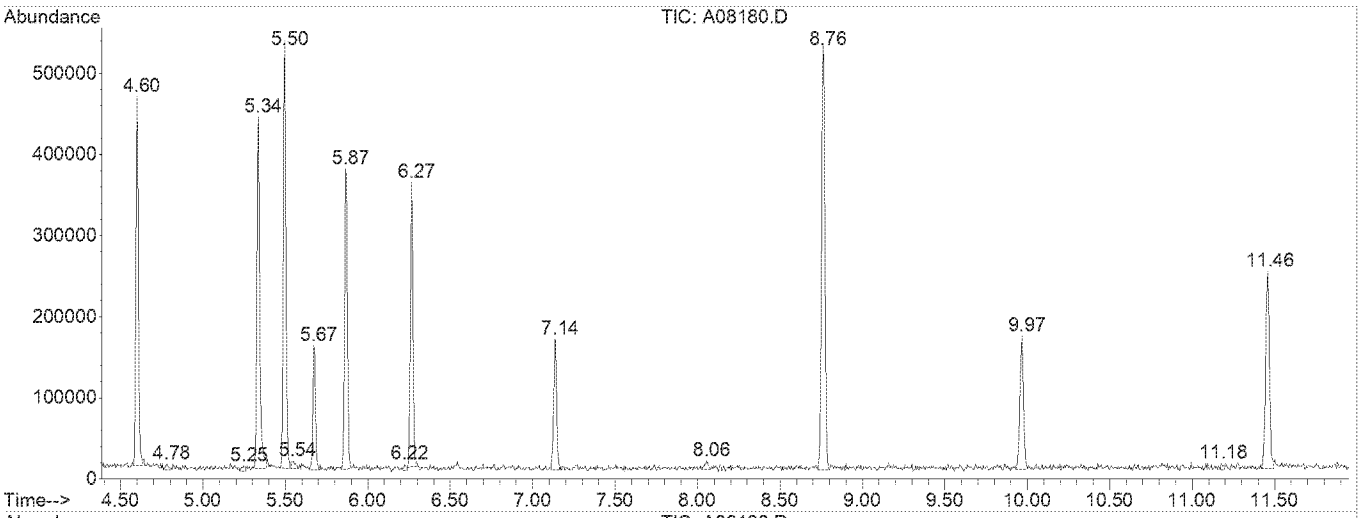
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.599	37	41	48	rBV	454676	469835	51.43%	7.327%
2	4.781	71	75	79	rBV6	6698	9210	1.01%	0.144%
3	5.251	158	163	165	rBV2	6193	9927	1.09%	0.155%
4	5.336	174	179	188	rBV	433224	515773	56.46%	8.044%
5	5.496	204	209	215	rBV	526647	573452	62.77%	8.943%
6	5.544	216	218	224	rVV7	9904	15531	1.70%	0.242%
7	5.673	237	242	248	rVB	152679	171088	18.73%	2.668%
8	5.865	273	278	284	rVV	369883	439664	48.13%	6.857%
9	6.223	342	345	348	rBV3	7788	9442	1.03%	0.147%
10	6.266	348	353	358	rVV	350217	383947	42.03%	5.988%
11	7.136	511	516	523	rVB	161371	206709	22.63%	3.224%
12	8.055	682	688	693	rVB9	10403	16892	1.85%	0.263%
13	8.761	814	820	827	rVB	524786	728338	79.72%	11.359%
14	9.968	1039	1046	1052	rVV3	163609	242773	26.57%	3.786%
15	11.175	1271	1272	1276	rVV3	8005	9221	1.01%	0.144%
16	11.458	1318	1325	1332	rBV3	242867	390382	42.73%	6.088%
17	12.778	1562	1572	1578	rBV	171519	279798	30.63%	4.364%
18	13.061	1622	1625	1628	rVB4	9472	12110	1.33%	0.189%
19	14.439	1879	1883	1886	rVB4	7715	11595	1.27%	0.181%
20	14.925	1972	1974	1978	rBV5	7901	10290	1.13%	0.160%
21	15.257	2033	2036	2039	rVB5	7656	9692	1.06%	0.151%
22	15.615	2099	2103	2106	rBV6	9559	13317	1.46%	0.208%
23	16.021	2173	2179	2188	rVB2	533341	913575	100.00%	14.248%
24	16.320	2232	2235	2236	rBV3	11171	9882	1.08%	0.154%
25	17.308	2418	2420	2424	rBV5	6080	9401	1.03%	0.147%
26	17.912	2531	2533	2537	rBV5	9283	10833	1.19%	0.169%
27	18.147	2570	2577	2583	rBV2	174402	318922	34.91%	4.974%
28	18.553	2651	2653	2656	rVB4	10966	10608	1.16%	0.165%
29	18.921	2720	2722	2725	rBV4	12488	11817	1.29%	0.184%
30	19.413	2810	2814	2815	rBV4	11602	13549	1.48%	0.211%
31	19.472	2821	2825	2826	rBV4	14094	16465	1.80%	0.257%
32	19.520	2832	2834	2839	rBV6	9751	9151	1.00%	0.143%
33	20.097	2940	2942	2945	rBV4	12488	9548	1.05%	0.149%
34	20.353	2988	2990	2993	rBV4	12351	12216	1.34%	0.191%
35	21.053	3114	3121	3131	rVB2	125451	273815	29.97%	4.270%
36	21.769	3253	3255	3257	rBV3	18101	18397	2.01%	0.287%
37	22.089	3314	3315	3317	rBV2	15744	10891	1.19%	0.170%
38	22.143	3323	3325	3328	rBV4	12094	17635	1.93%	0.275%
39	22.629	3414	3416	3418	rBV3	16255	13779	1.51%	0.215%
40	22.661	3420	3422	3424	rBV3	16469	11263	1.23%	0.176%
41	22.693	3426	3428	3431	rBV4	10757	10638	1.16%	0.166%
42	23.126	3508	3509	3510	rBV	27819	12846	1.41%	0.200%
43	23.142	3510	3512	3515	rVV4	14403	15014	1.64%	0.234%
44	23.297	3539	3541	3544	rBV3	12661	14041	1.54%	0.219%
45	23.778	3629	3631	3632	rBV2	16534	9880	1.08%	0.154%

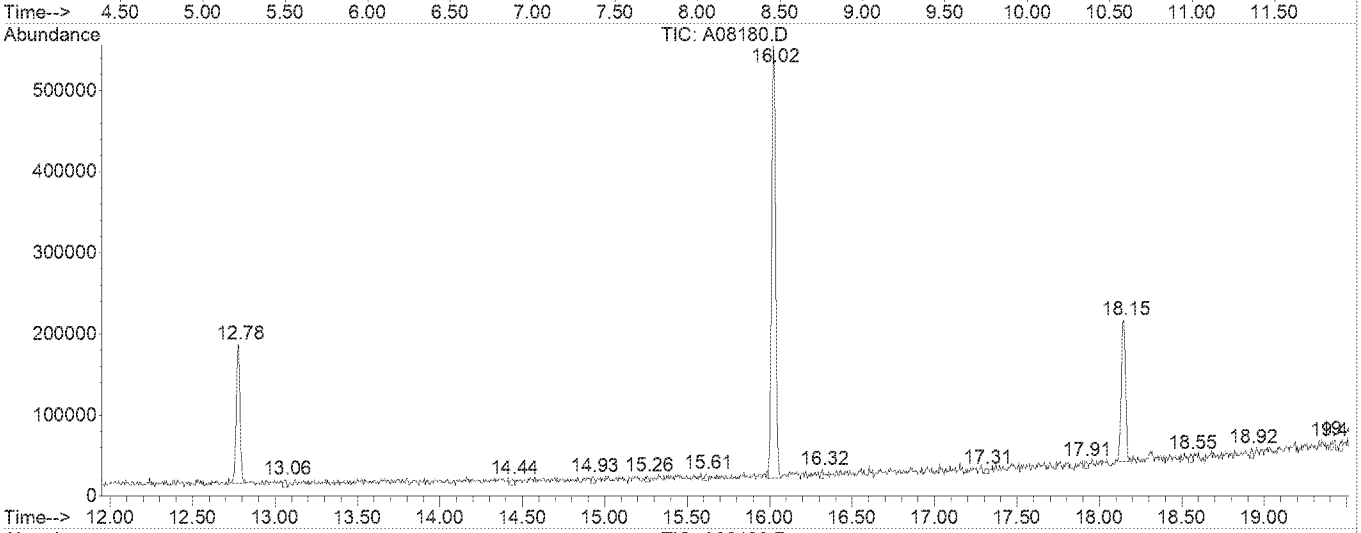
46	23.815	3635	3638	3640	r VV4	20921	16901	1.85%	0.264%
47	23.948	3659	3663	3664	r BV3	16161	15228	1.67%	0.237%
48	24.654	3793	3795	3796	r BV2	14595	10148	1.11%	0.158%
49	24.862	3832	3834	3837	r VB4	16717	15317	1.68%	0.239%
50	25.605	3971	3973	3974	r BV2	17245	10918	1.20%	0.170%
51	25.679	3985	3987	3990	r VB4	19129	17392	1.90%	0.271%
52	25.743	3995	3999	4000	r BV4	16360	19969	2.19%	0.311%
53	26.529	4145	4146	4149	r VB3	22736	13245	1.45%	0.207%
54	27.004	4234	4235	4238	r VB3	18313	9811	1.07%	0.153%

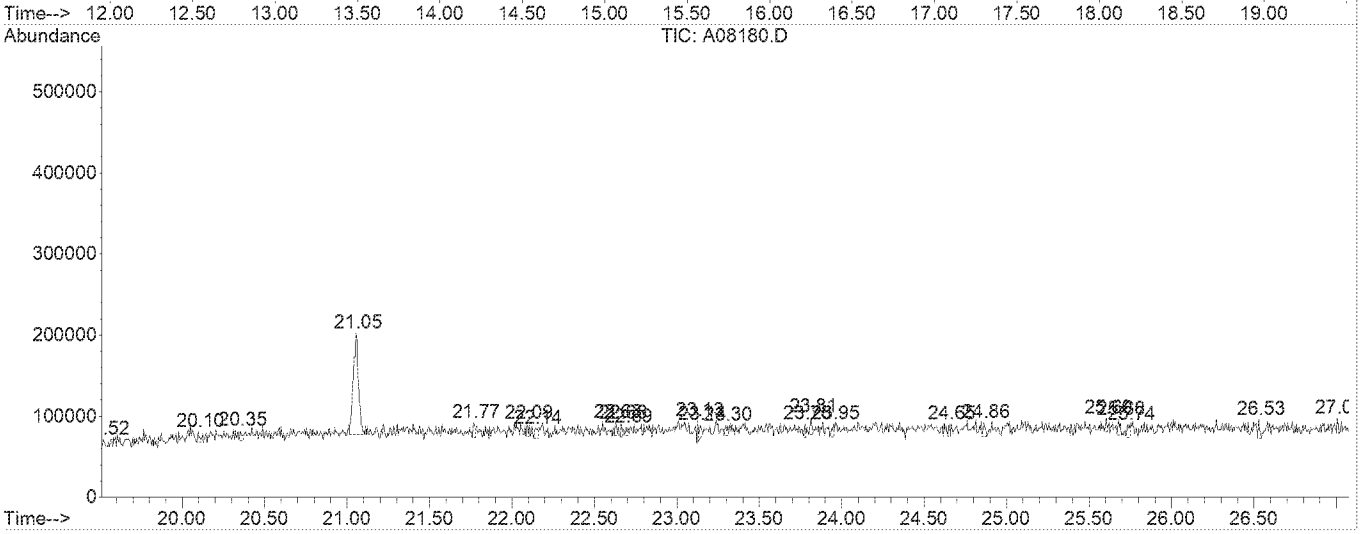
Sum of corrected areas: 6412081

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM 1\DATA\MS60629L.MIZ\A08180.D
Operator : MIZ
Acquired : 29 Jun 2011 3:55 pm using AcqMethod SVOA-LIQ
Instrument : DEL6
Sample Name: 1106041-002
Misc Info : 1
Vial Number: 10
Quant File : I60629.RES (RTE Integrator)







Tentatively Identified Compound (LSC) summary

Operator ID: MIZ Date Acquired: 29 Jun 2011 3:55 pm
Data File: C:\MSDCHEM 1\DATA\MS60629L.MIZ\A08180.D
Name: 1106041-002
Misc: 1
Method: C:\MSDCHEM 1\METHODS\I60629.M(RTE Integrator)
Title: HSCA TCL + ANILINE
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60706L.MIZ\A08221.D Vial: 5
Acq On : 6 Jul 2011 1:22 pm Operator: MIZ
Sample : 1106041-003 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 06 13:54:07 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	57569	20.00 ng/µl	0.00
19) Naphthalene-d8	7.07	136	205223	20.00 ng/µl	0.00
34) Acenaphthene-d10	9.88	164	137462	20.00 ng/µl	0.00
56) Phenanthrene-d10	12.69	188	302882	20.00 ng/µl	0.00
68) Chrysene-d12	18.05	240	402598	20.00 ng/µl	0.00
76) Perylene-d12	20.92	264	309570	20.00 ng/µl	0.00

System Monitoring Compounds

2) 2-Fluorophenol	4.56	112	422941	59.87 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 79.83%		
4) Phenol-d5	5.28	99	656154	64.41 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 85.88%		
6) 2-Chlorophenol-d4	5.44	132	410703	61.56 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 82.08%		
11) 1,2-Dichlorobenzene-d4	5.81	152	200402	40.64 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 81.28%		
20) Nitrobenzene-d5	6.21	82	469652	42.90 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 85.80%		
38) 2-Fluorobiphenyl	8.69	172	728885	38.17 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 76.34%		
55) 2,4,6-Tribromophenol	11.37	330	109733	57.45 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 76.60%		
70) Terphenyl-d14	15.93	244	736595	26.76 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 53.52%		

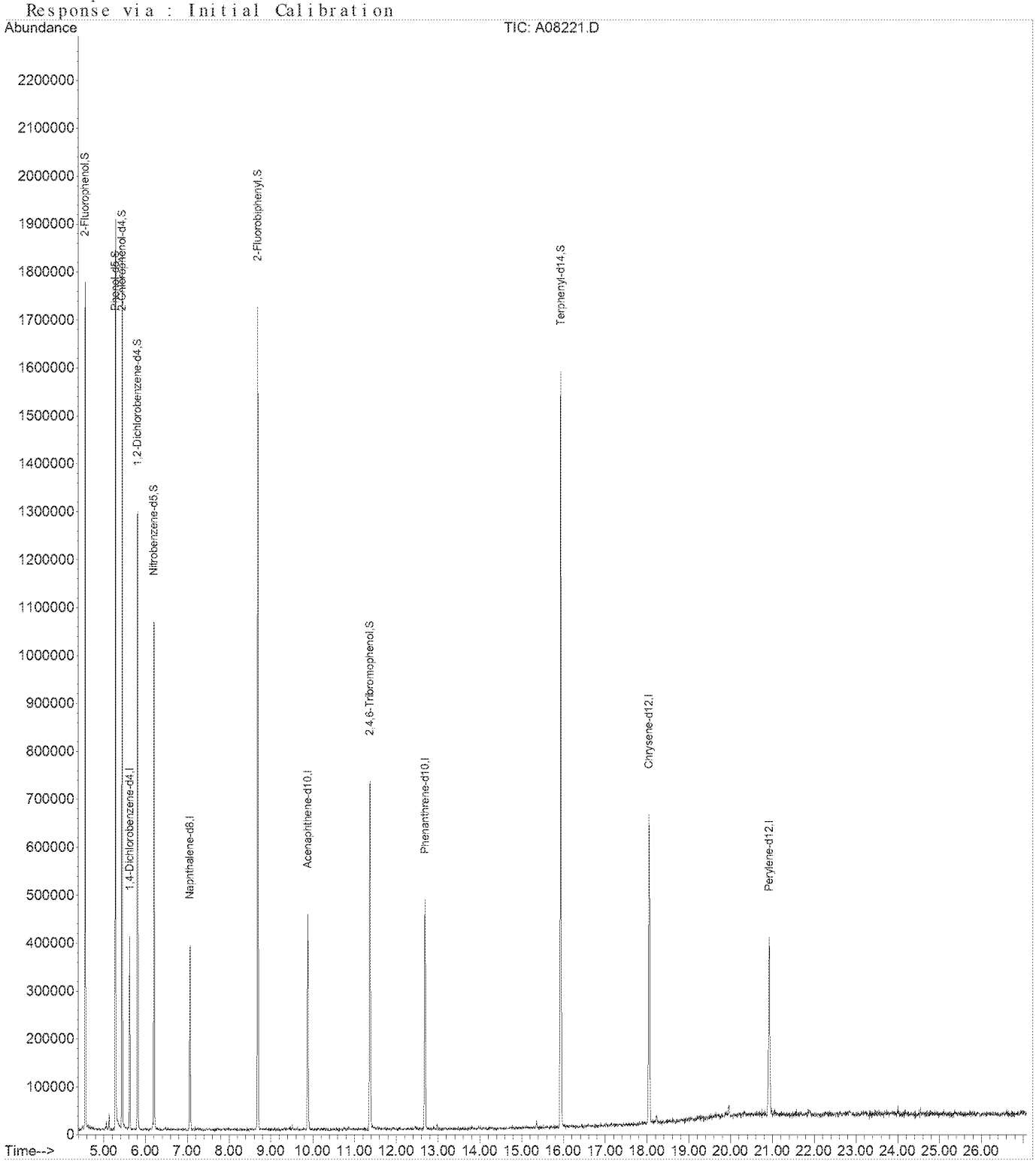
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60706L.MIZ\A08221.D Vial: 5
Acq On : 6 Jul 2011 1:22 pm Operator: MIZ
Sample : 1106041-003 Inst : DEL6
Msc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 7 8:32 2011 Quant Results File: I60705B.RES

Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM1\DATA\MS60706L.MIZ\A08221.D Vial: 5
Acq On : 6 Jul 2011 1:22 pm Operator: MIZ
Sample : 1106041-003 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

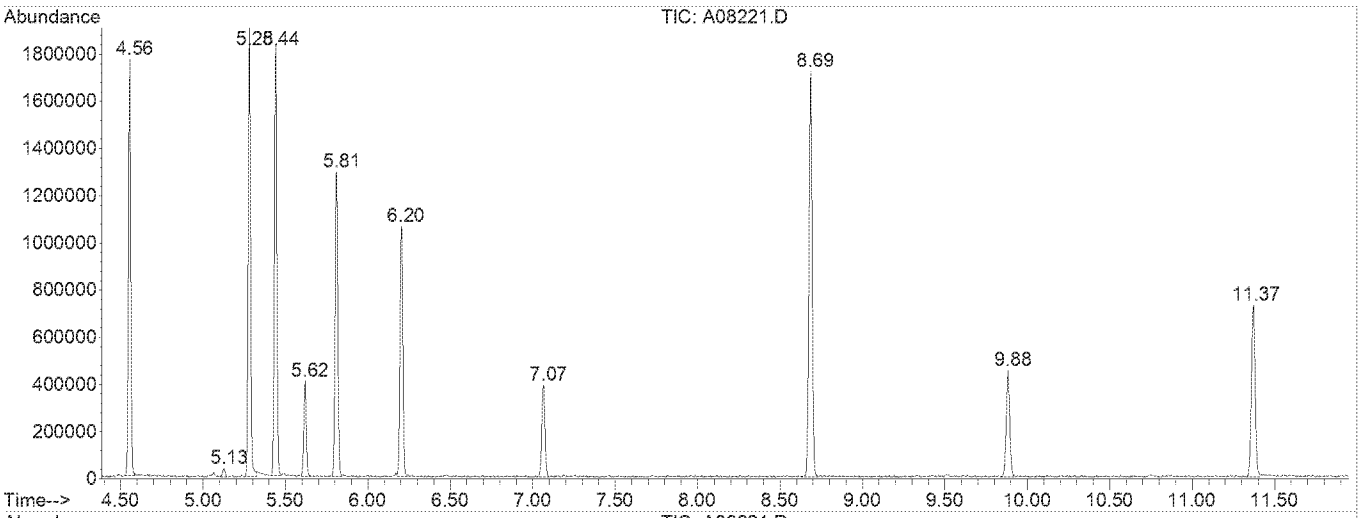
Signal : TIC

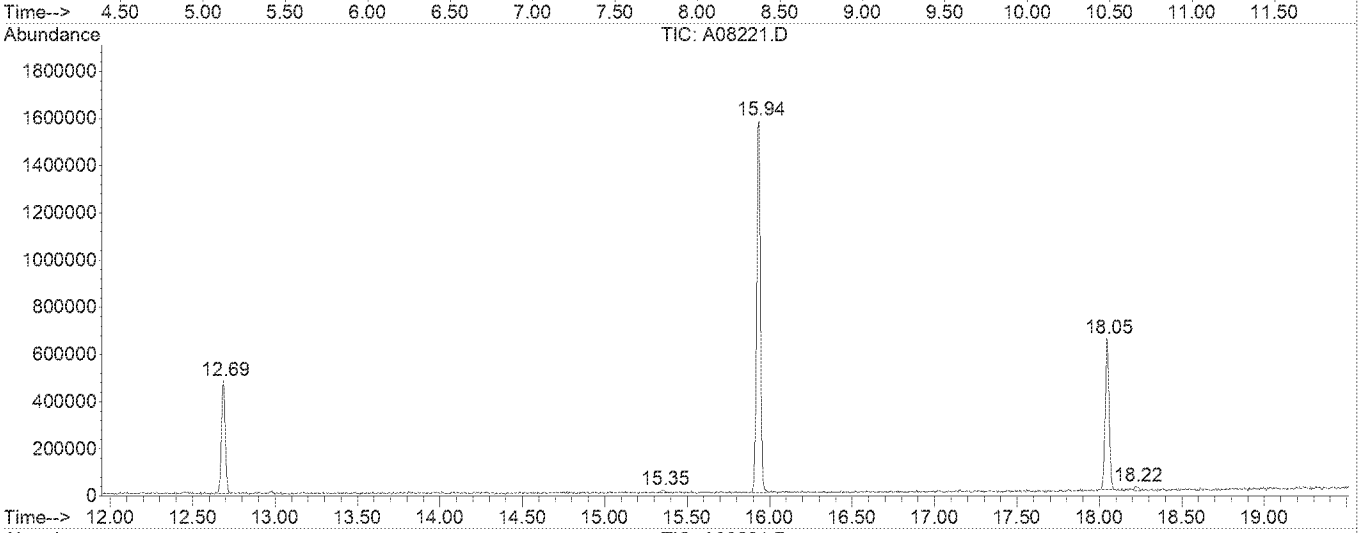
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.556	28	33	38	rBV	1766057	1706033	67.89%	9.167%
2	5.128	135	140	145	rVB4	36038	40942	1.63%	0.220%
3	5.283	164	169	177	rBV	1898496	1849071	73.58%	9.935%
4	5.443	192	199	205	rBV	1825407	1935469	77.02%	10.400%
5	5.619	227	232	240	rVB	403846	420647	16.74%	2.260%
6	5.811	260	268	274	rBV	1289920	1501459	59.75%	8.068%
7	6.201	336	341	351	rVB	1058338	1260012	50.14%	6.770%
8	7.067	495	503	509	rBV	386520	518755	20.64%	2.787%
9	8.686	795	806	815	rVB	1716895	2294543	91.30%	12.329%
10	9.882	1021	1030	1039	rBV2	450221	664549	26.44%	3.571%
11	11.373	1301	1309	1317	rBV2	728316	1153067	45.88%	6.196%
12	12.687	1548	1555	1563	rVB	478592	775053	30.84%	4.164%
13	15.353	2045	2054	2060	rBV	15973	27408	1.09%	0.147%
14	15.935	2155	2163	2173	rBV	1577886	2513106	100.00%	13.503%
15	18.045	2550	2558	2567	rBV2	640947	1063224	42.31%	5.713%
16	18.221	2588	2591	2597	rVB8	17705	29916	1.19%	0.161%
17	20.919	3086	3096	3105	rBV3	374102	857906	34.14%	4.610%

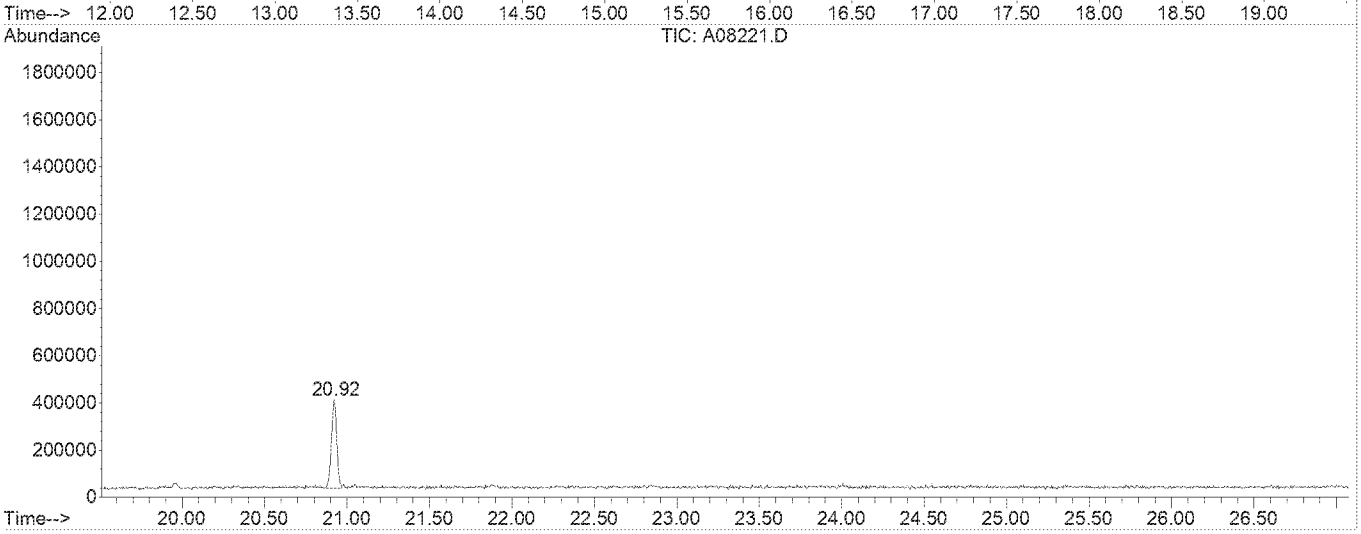
Sum of corrected areas: 18611160

LSC Report - Integrated Chromtogram

File : C:\MSDCHEM 1\DATA\MS60706L.MIZ\A08221.D
Operator : MIZ
Acquired : 6 Jul 2011 1:22 pm using AcqMethod SVOA-LIQ
Instrument : DEL6
Sample Name: 1106041-003
Msc Info : 1
Vial Number: 5
Quant File : I60705B.RES (RTE Integrator)







Tentatively Identified Compound (LSC) summary

Operator ID: MIZ Date Acquired: 6 Jul 2011 1:22 pm
Data File: C:\MSDCHEM 1\DATA\MS60706L.MIZ\A08221.D
Name: 1106041-003
Misc: 1
Method: C:\MSDCHEM 1\METHODS\I60705B.M(RTE Integrator)
Title: HSCA TCL + ANILINE
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	Est Conc	Units	Response	--Internal Standard--- #	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08182.D Vial: 12
Acq On : 29 Jun 2011 5:08 pm Operator: MIZ
Sample : 1106041-004 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 30 08:10:56 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	31090	20.00 ng/µl	-0.02
19) Naphthalene-d8	7.12	136	108163	20.00 ng/µl	-0.02
34) Acenaphthene-d10	9.94	164	65628	20.00 ng/µl	-0.03
56) Phenanthrene-d10	12.76	188	126567	20.00 ng/µl	-0.02
68) Chrysene-d12	18.12	240	140702	20.00 ng/µl	-0.03
76) Perylene-d12	21.03	264	112036	20.00 ng/µl	-0.03
System Monitoring Compounds					
2) 2-Fluorophenol	4.59	112	139126	37.15 ng/µl	-0.01
Spiked Amount 75.000	Range 21 - 110		Recovery = 49.53%		
4) Phenol-d5	5.33	99	228651	42.73 ng/µl	-0.01
Spiked Amount 75.000	Range 10 - 110		Recovery = 56.97%		
6) 2-Chlorophenol-d4	5.48	132	141752	40.31 ng/µl	-0.02
Spiked Amount 75.000	Range 33 - 110		Recovery = 53.75%		
11) 1,2-Dichlorobenzene-d4	5.85	152	76391	28.51 ng/µl	-0.02
Spiked Amount 50.000	Range 16 - 110		Recovery = 57.02%		
20) Nitrobenzene-d5	6.25	82	162826	30.50 ng/µl	-0.02
Spiked Amount 50.000	Range 34 - 114		Recovery = 61.00%		
38) 2-Fluorobiphenyl	8.74	172	281765	33.34 ng/µl	-0.02
Spiked Amount 50.000	Range 43 - 116		Recovery = 66.68%		
55) 2,4,6-Tribromophenol	11.44	330	51317	55.88 ng/µl	-0.03
Spiked Amount 75.000	Range 10 - 123		Recovery = 74.51%		
70) Terphenyl-d14	16.00	244	329799	37.42 ng/µl	-0.03
Spiked Amount 50.000	Range 33 - 141		Recovery = 74.84%		

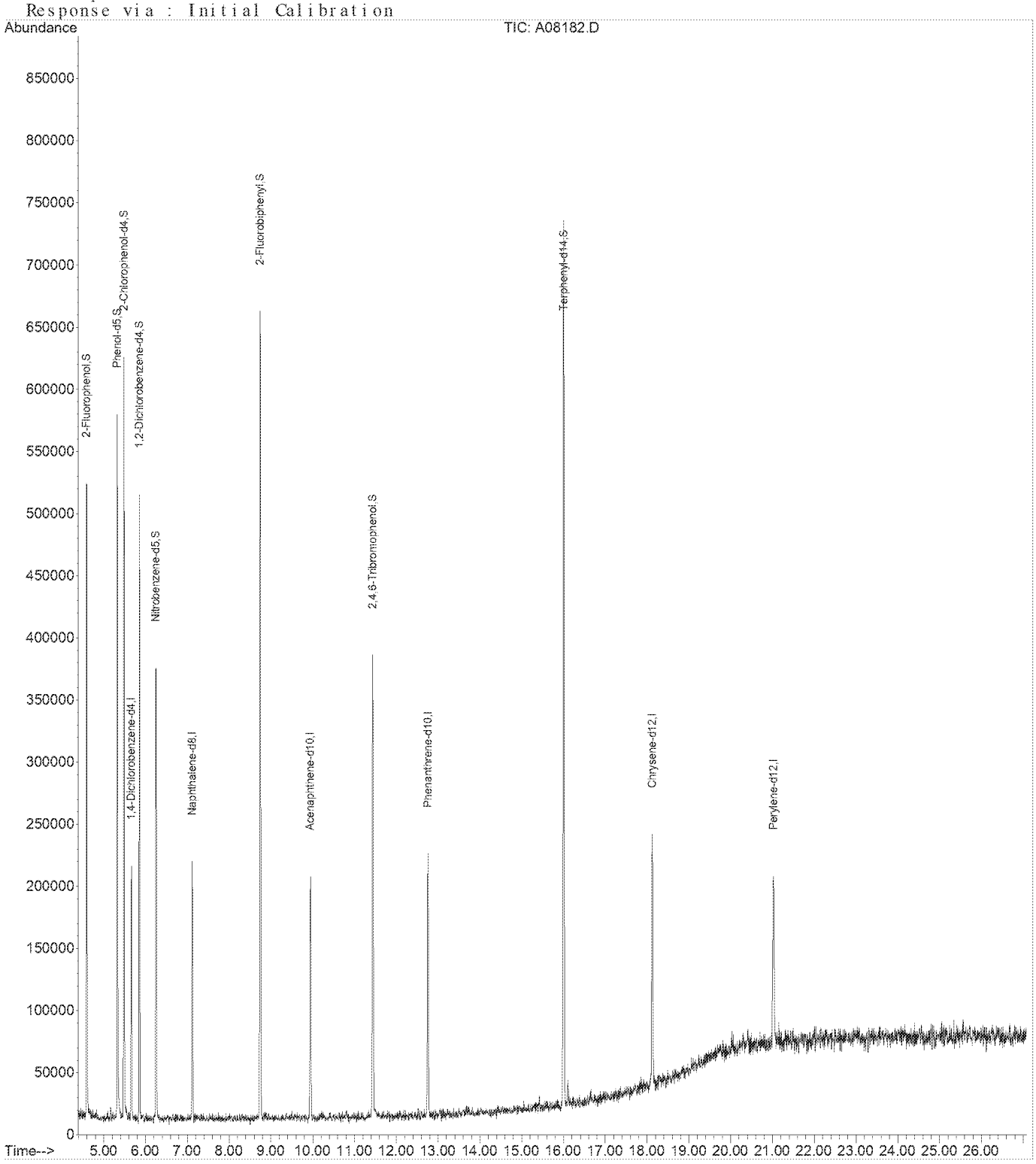
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08182.D Vial: 12
Acq On : 29 Jun 2011 5:08 pm Operator: MIZ
Sample : 1106041-004 Inst : DEL6
Msc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 30 8:48 2011 Quant Results File: I60629.RES

Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM1\DATA\MS60629L.MIZ\A08182.D Vial: 12
Acq On : 29 Jun 2011 5:08 pm Operator: MIZ
Sample : 1106041-004 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM1\METHODS\I60629.M(RTE Integrator)
Title : HSCA TCL + ANILINE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

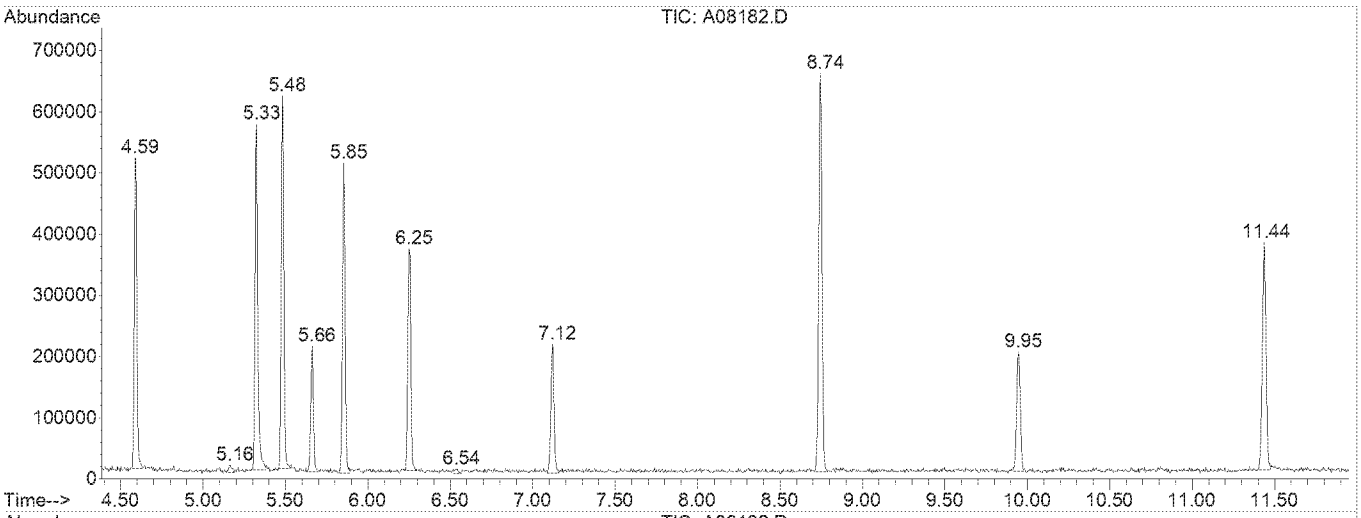
Signal : TIC

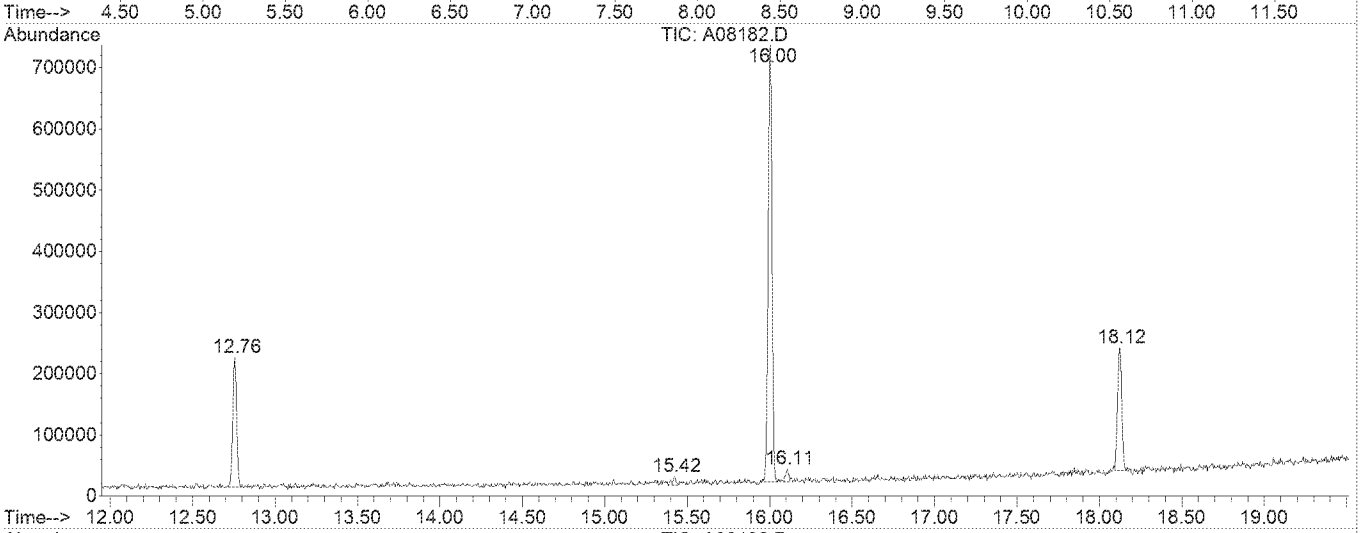
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.588	35	39	48	rBV	507606	550845	47.69%	7.081%
2	5.165	143	147	153	rVB6	11142	17423	1.51%	0.224%
3	5.325	172	177	187	rBV	565439	653805	56.60%	8.404%
4	5.480	202	206	215	rBV	608941	670680	58.06%	8.621%
5	5.662	234	240	247	rBV	204574	228980	19.82%	2.943%
6	5.854	270	276	283	rBV	506430	566551	49.05%	7.283%
7	6.249	345	350	360	rVB	362123	456848	39.55%	5.872%
8	6.538	401	404	409	rVB5	7748	12481	1.08%	0.160%
9	7.120	507	513	520	rVB	210299	277756	24.05%	3.570%
10	8.744	810	817	825	rVB	650817	902793	78.16%	11.605%
11	9.946	1035	1042	1048	rBV2	195203	307187	26.59%	3.949%
12	11.437	1314	1321	1328	rBV2	371423	583744	50.54%	7.504%
13	12.756	1561	1568	1575	rVB	211126	339686	29.41%	4.366%
14	15.422	2064	2067	2072	rVB7	13099	16755	1.45%	0.215%
15	16.004	2168	2176	2184	rVB3	713179	1155127	100.00%	14.848%
16	16.106	2191	2195	2198	rBV3	20444	27509	2.38%	0.354%
17	18.120	2567	2572	2580	rVB3	200189	359660	31.14%	4.623%
18	19.819	2888	2890	2894	rBV5	14981	15929	1.38%	0.205%
19	20.855	3082	3084	3089	rBV6	10649	14087	1.22%	0.181%
20	21.021	3108	3115	3122	rBV2	137943	319580	27.67%	4.108%
21	21.635	3229	3230	3233	rBV3	16001	15825	1.37%	0.203%
22	21.977	3292	3294	3297	rBV4	11644	12247	1.06%	0.157%
23	22.159	3326	3328	3331	rBV4	16585	13974	1.21%	0.180%
24	22.330	3358	3360	3364	rBV5	11432	15204	1.32%	0.195%
25	22.426	3375	3378	3381	rBV5	15656	19725	1.71%	0.254%
26	22.490	3388	3390	3392	rBV3	18706	20292	1.76%	0.261%
27	22.939	3472	3474	3476	rBV3	14845	13892	1.20%	0.179%
28	23.248	3529	3532	3534	rBV4	14337	17081	1.48%	0.220%
29	23.307	3539	3543	3547	rBV7	20473	32066	2.78%	0.412%
30	24.103	3690	3692	3694	rBV3	12864	12480	1.08%	0.160%
31	24.835	3826	3829	3832	rBV5	20264	23408	2.03%	0.301%
32	25.049	3867	3869	3872	rVV4	18575	14890	1.29%	0.191%
33	25.070	3872	3873	3876	rVB3	15108	12418	1.08%	0.160%
34	25.102	3877	3879	3882	rVB4	17019	12246	1.06%	0.157%
35	25.487	3949	3951	3954	rBV4	13438	15939	1.38%	0.205%
36	25.556	3962	3964	3967	rBV4	19818	20712	1.79%	0.266%
37	26.513	4141	4143	4148	rBV6	16644	16682	1.44%	0.214%
38	26.822	4199	4201	4204	rBV4	13997	12951	1.12%	0.166%

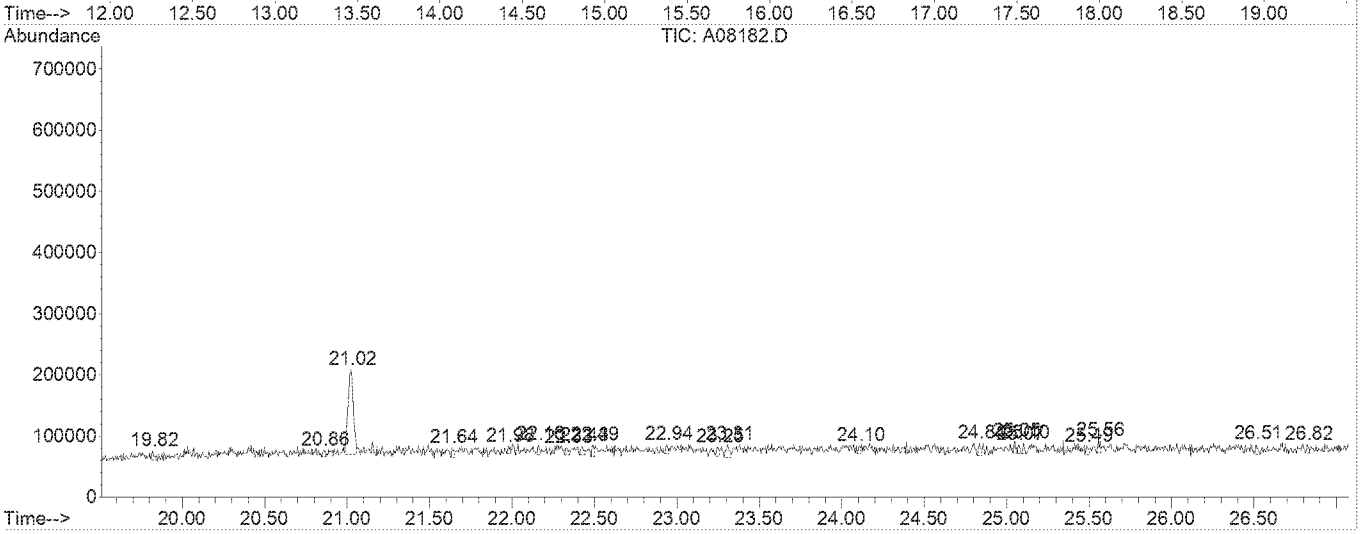
Sum of corrected areas: 7779458

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM 1\DATA\MS60629L.MIZ\A08182.D
Operator : MIZ
Acquired : 29 Jun 2011 5:08 pm using AcqMethod SVOA-LIQ
Instrument : DEL6
Sample Name: 1106041-004
Msc Info : 1
Vial Number: 12
Quant File : I60629.RES (RTE Integrator)







Library Search Compound Report

Data File : C:\MSDCHEM 1\DATA\MS60629L.MIZ\A08182.D Vial: 12
Acq On : 29 Jun 2011 5:08 pm Operator: MIZ
Sample : 1106041-004 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

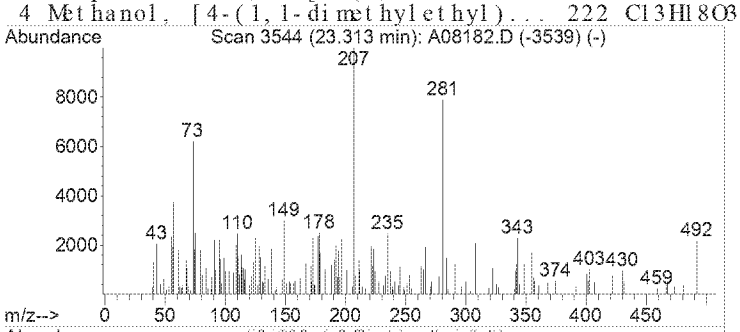
Quant Method : C:\MSDCHEM 1\METHODS\I60629.M(RTE Integrator)
Title : HSCA TCL + ANILINE
Library : C:\DATABASE\NIST98.L

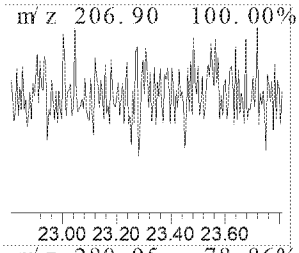
****

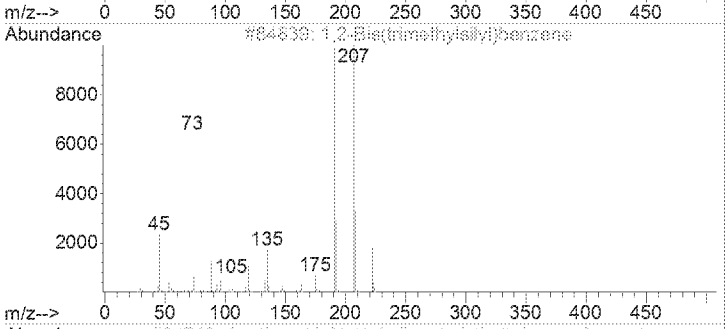
Peak Number 1 Unknown Concentration Rank 1

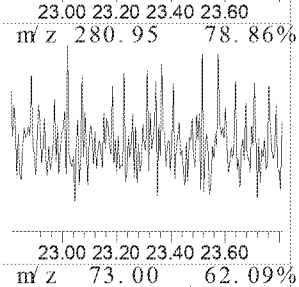
R.T.	Est Conc	Area	Relative to ISTD	R.T.
23.31	2.01 ng/µl	32066	Perylene-d12	21.03

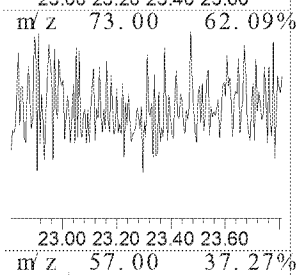
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-Bis(trimethylsilyl)benzene	222	C12H22Si2	017151-09-6	50
2	Acetic acid, [4-(1,1-dimethyleth...	222	C13H18O3	088530-52-3	46
3	Propanoic acid, 2-[4-(1,1-dimeth...	222	C13H18O3	006941-12-4	46
4	Methanol, [4-(1,1-dimethylethyl)...	222	C13H18O3	054889-98-4	46

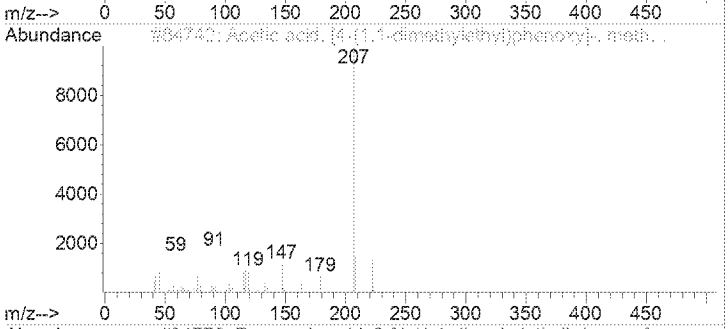


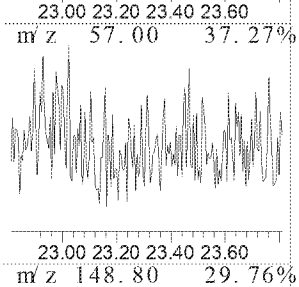


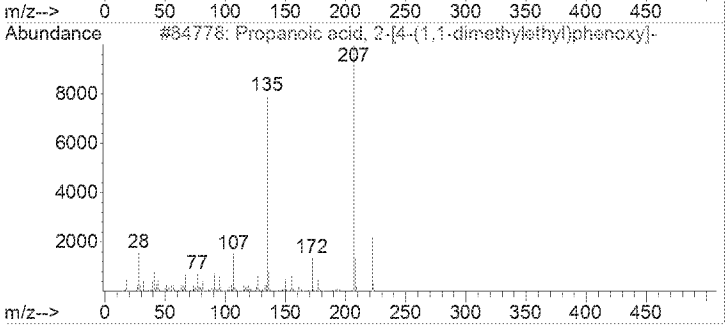


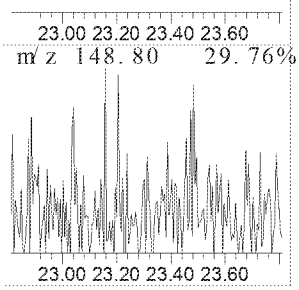












Tentatively Identified Compound (LSC) summary

Operator ID: MIZ Date Acquired: 29 Jun 2011 5:08 pm
Data File: C:\MSDCHEM 1\DATA\MS60629L.MIZ\A08182.D
Name: 1106041-004
Misc: 1
Method: C:\MSDCHEM 1\METHODS\I60629.M(RTE Integrator)
Title: HSCA TCL + ANILINE
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	Est Conc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Unknown	23.31	2.0	ng/µl	32066	6	21.03	319580	20.0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60706L.MIZ\A08222.D Vial: 6
Acq On : 6 Jul 2011 1:59 pm Operator: MIZ
Sample : 1106041-005 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 06 14:52:35 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	58256	20.00	ng/µl	0.00
19) Naphthalene-d8	7.06	136	203516	20.00	ng/µl	0.00
34) Acenaphthene-d10	9.88	164	125510	20.00	ng/µl	0.00
56) Phenanthrene-d10	12.68	188	241243	20.00	ng/µl	-0.01
68) Chrysene-d12	18.05	240	284472	20.00	ng/µl	0.00
76) Perylene-d12	20.91	264	246167	20.00	ng/µl	-0.01

System Monitoring Compounds

2) 2-Fluorophenol	4.55	112	443810	62.09	ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 82.79%			
4) Phenol-d5	5.28	99	651786	63.23	ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 84.31%			
6) 2-Chlorophenol-d4	5.44	132	413473	61.24	ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 81.65%			
11) 1,2-Dichlorobenzene-d4	5.81	152	199081	39.89	ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 79.78%			
20) Nitrobenzene-d5	6.20	82	472420	43.51	ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 87.02%			
38) 2-Fluorobiphenyl	8.68	172	758562	43.51	ng/µl	-0.01
Spiked Amount 50.000	Range 43 - 116		Recovery = 87.02%			
55) 2,4,6-Tribromophenol	11.37	330	122166	70.05	ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 93.40%			
70) Terphenyl-d14	15.93	244	835933	42.98	ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 85.96%			

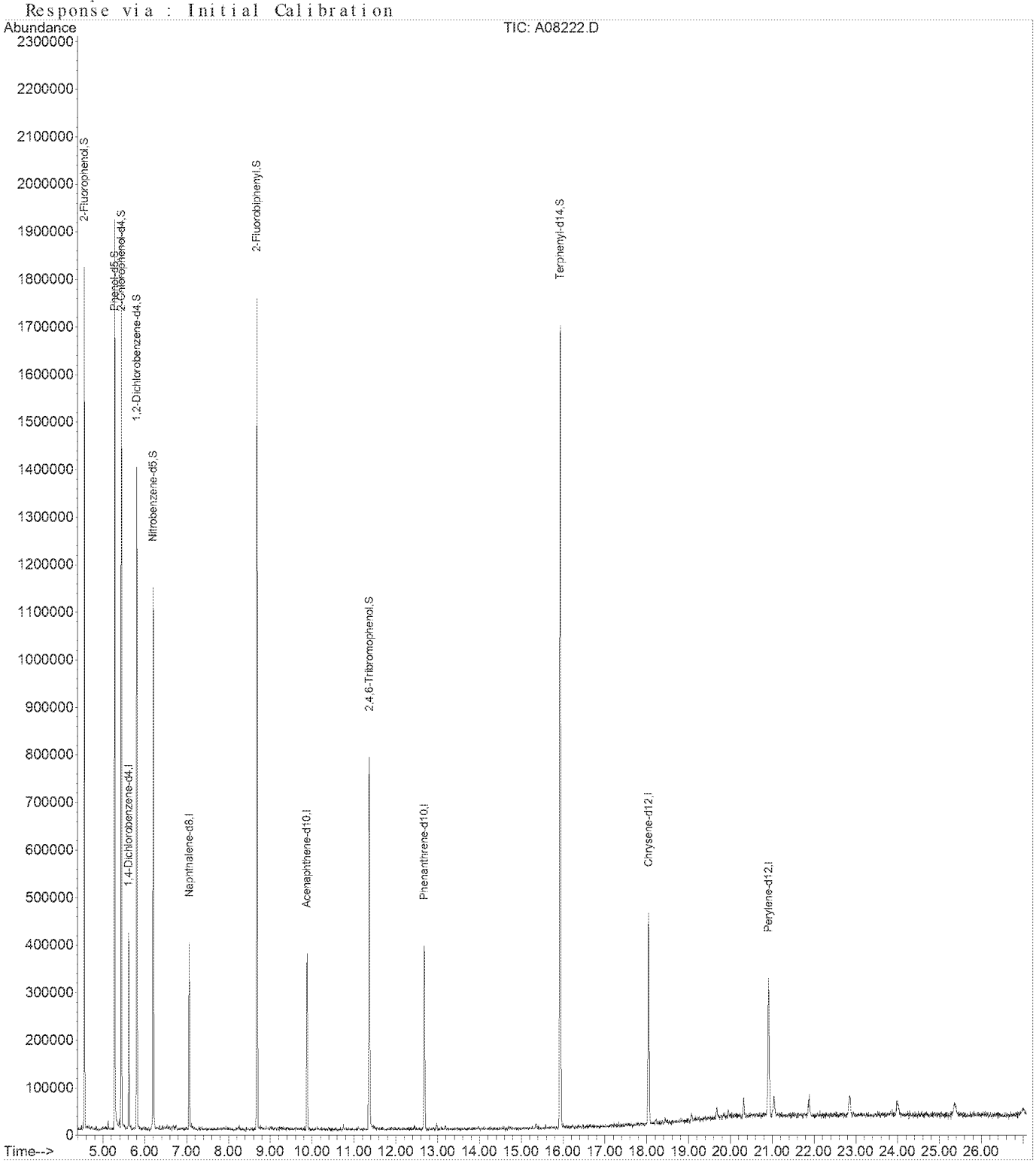
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60706L.MIZ\A08222.D Vial: 6
Acq On : 6 Jul 2011 1:59 pm Operator: MIZ
Sample : 1106041-005 Inst : DEL6
Msc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 7 8:33 2011 Quant Results File: I60705B.RES

Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM1\DATA\MS60706L.MIZ\A08222.D Vial: 6
Acq On : 6 Jul 2011 1:59 pm Operator: MIZ
Sample : 1106041-005 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

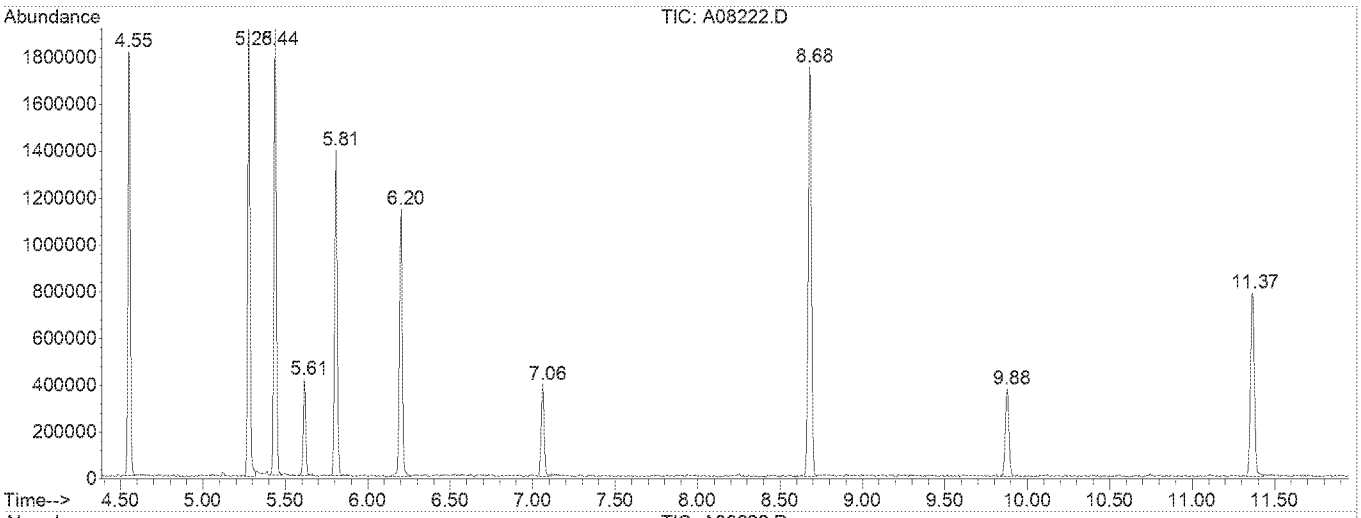
Signal : TIC

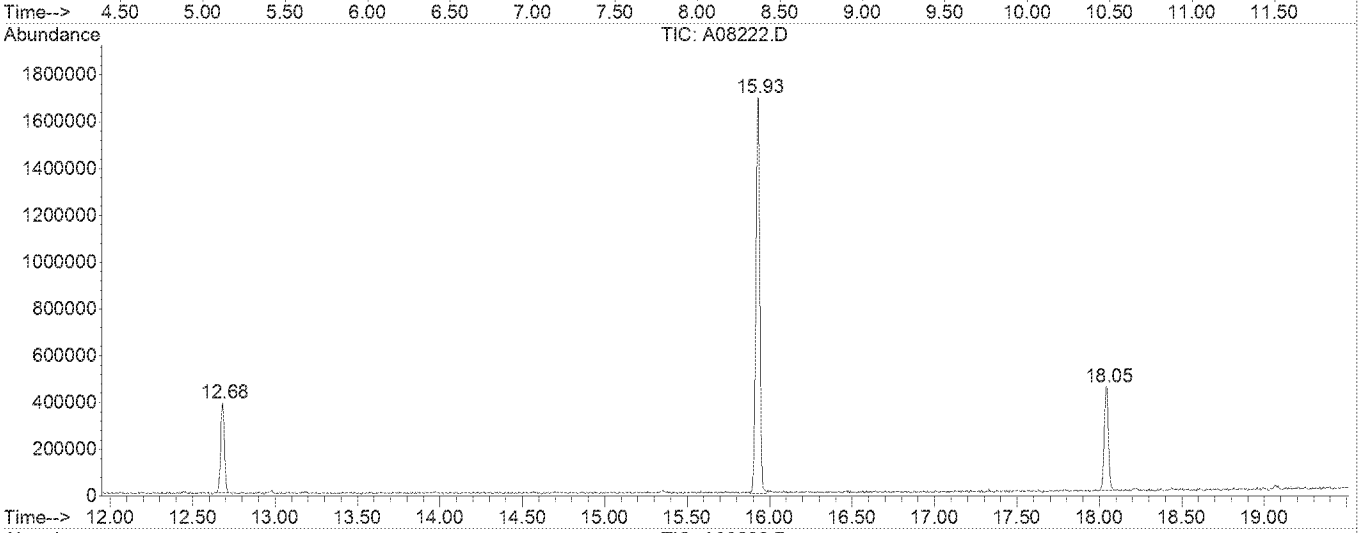
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.551	27	32	39	rBV	1810355	1733272	61.61%	9.247%
2	5.277	164	168	176	rBV	1913463	1866175	66.34%	9.957%
3	5.438	192	198	206	rBV	1905546	1967217	69.93%	10.496%
4	5.614	225	231	236	rBV	411701	422303	15.01%	2.253%
5	5.806	262	267	274	rBV	1390548	1502723	53.42%	8.017%
6	6.201	328	341	352	rBV	1140205	1333792	47.41%	7.116%
7	7.062	496	502	511	rBV	393294	508979	18.09%	2.716%
8	8.680	798	805	813	rBV	1748673	2351616	83.60%	12.546%
9	9.877	1022	1029	1035	rBV3	371946	580497	20.64%	3.097%
10	11.367	1299	1308	1320	rBV3	783351	1285861	45.71%	6.860%
11	12.682	1547	1554	1561	rVB2	384730	621766	22.10%	3.317%
12	15.930	2153	2162	2172	rBV	1689651	2813070	100.00%	15.008%
13	18.045	2550	2558	2566	rVB	442809	783510	27.85%	4.180%
14	19.675	2857	2863	2868	rBV10	25526	53487	1.90%	0.285%
15	19.942	2910	2913	2921	rBV10	19126	38423	1.37%	0.205%
16	20.321	2977	2984	2987	rBV7	39992	65170	2.32%	0.348%
17	20.909	3085	3094	3106	rVB2	292747	679535	24.16%	3.625%
18	21.037	3113	3118	3126	rVB9	36407	71979	2.56%	0.384%
19	22.832	3448	3454	3455	rBV6	26597	34008	1.21%	0.181%
20	25.353	3920	3926	3927	rBV6	20051	29876	1.06%	0.159%

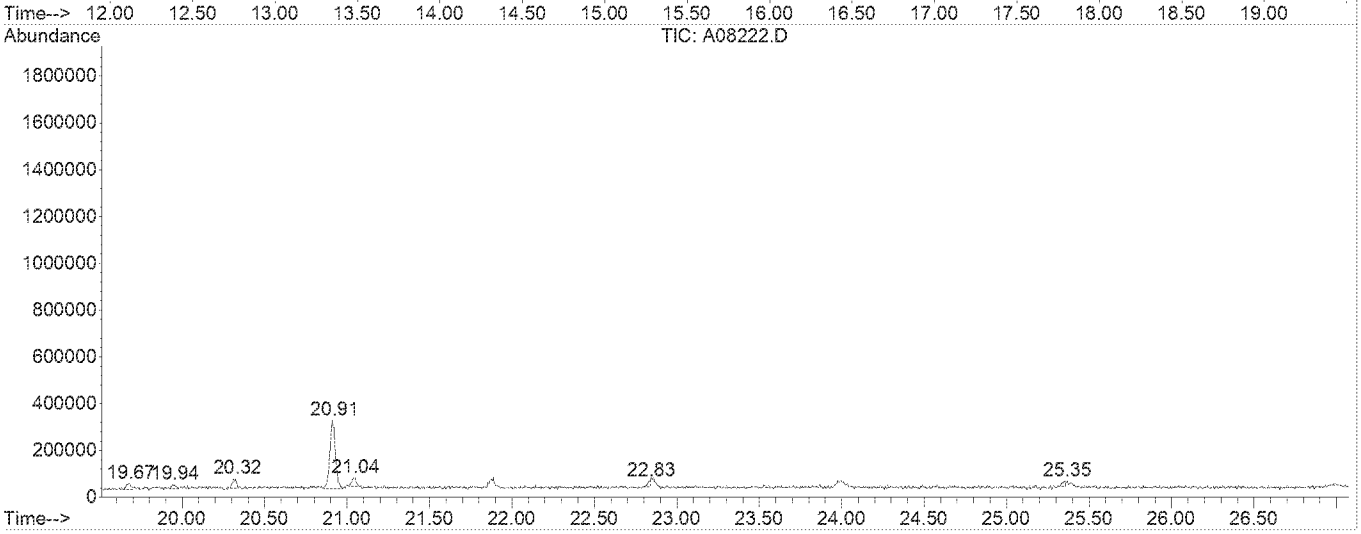
Sum of corrected areas: 18743259

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM 1\DATA\MS60706L.MIZ\A08222.D
Operator : MIZ
Acquired : 6 Jul 2011 1:59 pm using AcqMethod SVOA-LIQ
Instrument : DEL6
Sample Name: 1106041-005
Msc Info : 1
Vial Number: 6
Quant File : I60705B.RES (RTE Integrator)







Library Search Compound Report

Data File : C:\MSDCHEM 1\DATA\MS60706L.MIZ\A08222.D Vial: 6
Acq On : 6 Jul 2011 1:59 pm Operator: MIZ
Sample : 1106041-005 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

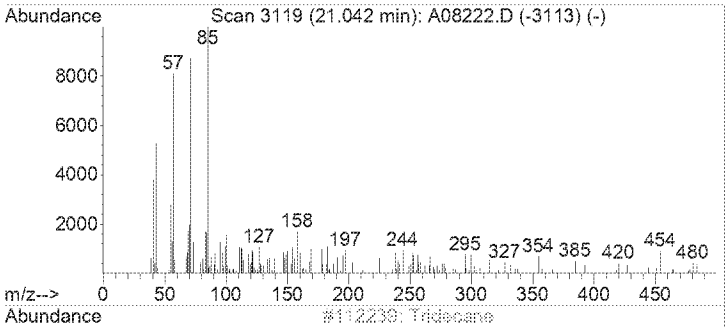
Quant Method : C:\MSDCHEM 1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Library : C:\DATABASE\NIST98.L

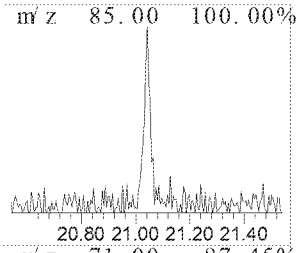
****

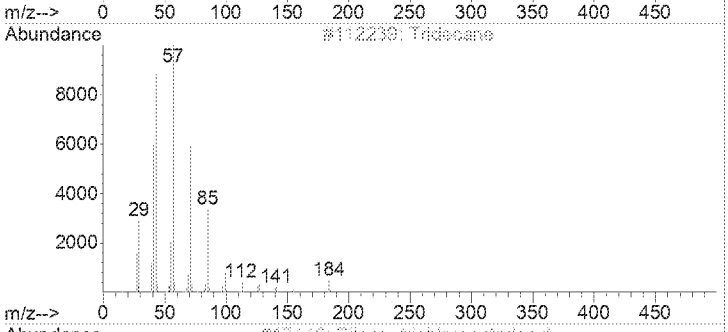
Peak Number 1 Unknown Hydrocarbon Concentration Rank 1

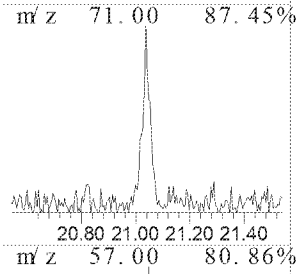
R.T.	Est Conc	Area	Relative to ISTD	R.T.
21.04	2.12 ng/µl	71979	Perylene-d12	20.91

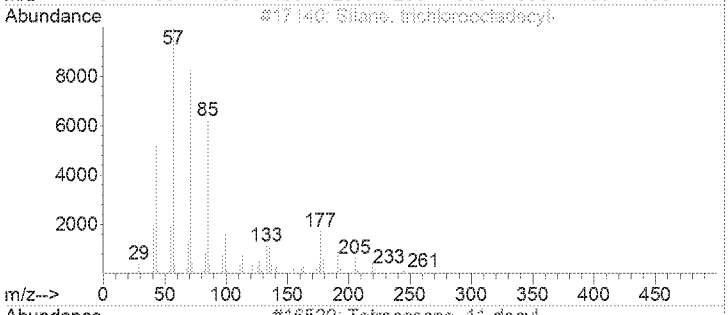
Hit# of 5	Tentative ID	MW	Mol Form	CAS#	Qual
1	Tridecane	184	C13H28	000629-50-5	64
2	Silane, trichlorooctadecyl-	386	C18H37Cl3Si	000112-04-9	50
3	Tetracosane, 11-decyl-	479	C34H70	055429-84-0	50
4	Eicosane	282	C20H42	000112-95-8	50

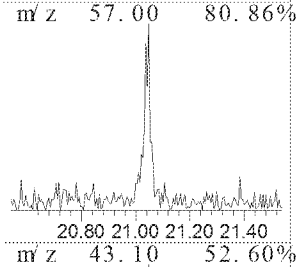


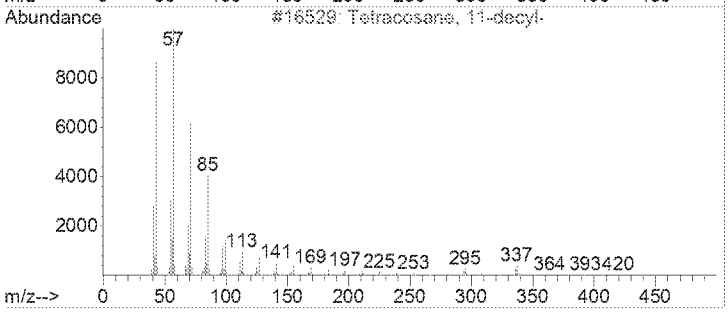


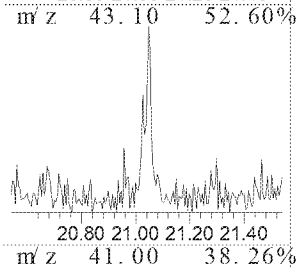


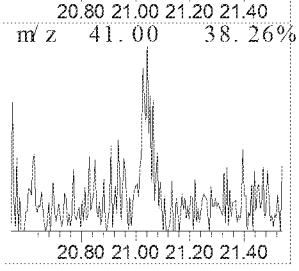












Tentatively Identified Compound (LSC) summary

Operator ID: MIZ Date Acquired: 6 Jul 2011 1:59 pm
Data File: C:\MSDCHEM 1\DATA\MS60706L.MIZ\A08222.D
Name: 1106041-005
Misc: 1
Method: C:\MSDCHEM 1\METHODS\I60705B.M (RTE Integrator)
Title: HSCA TCL + ANILINE
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	Est Conc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Unknown Hydrocarbon	21.04	2.1	ng/µl	71979	6	20.91	679535	20.0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08184.D Vial: 14
Acq On : 29 Jun 2011 6:21 pm Operator: MIZ
Sample : 1106041-006 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 30 08:11:09 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

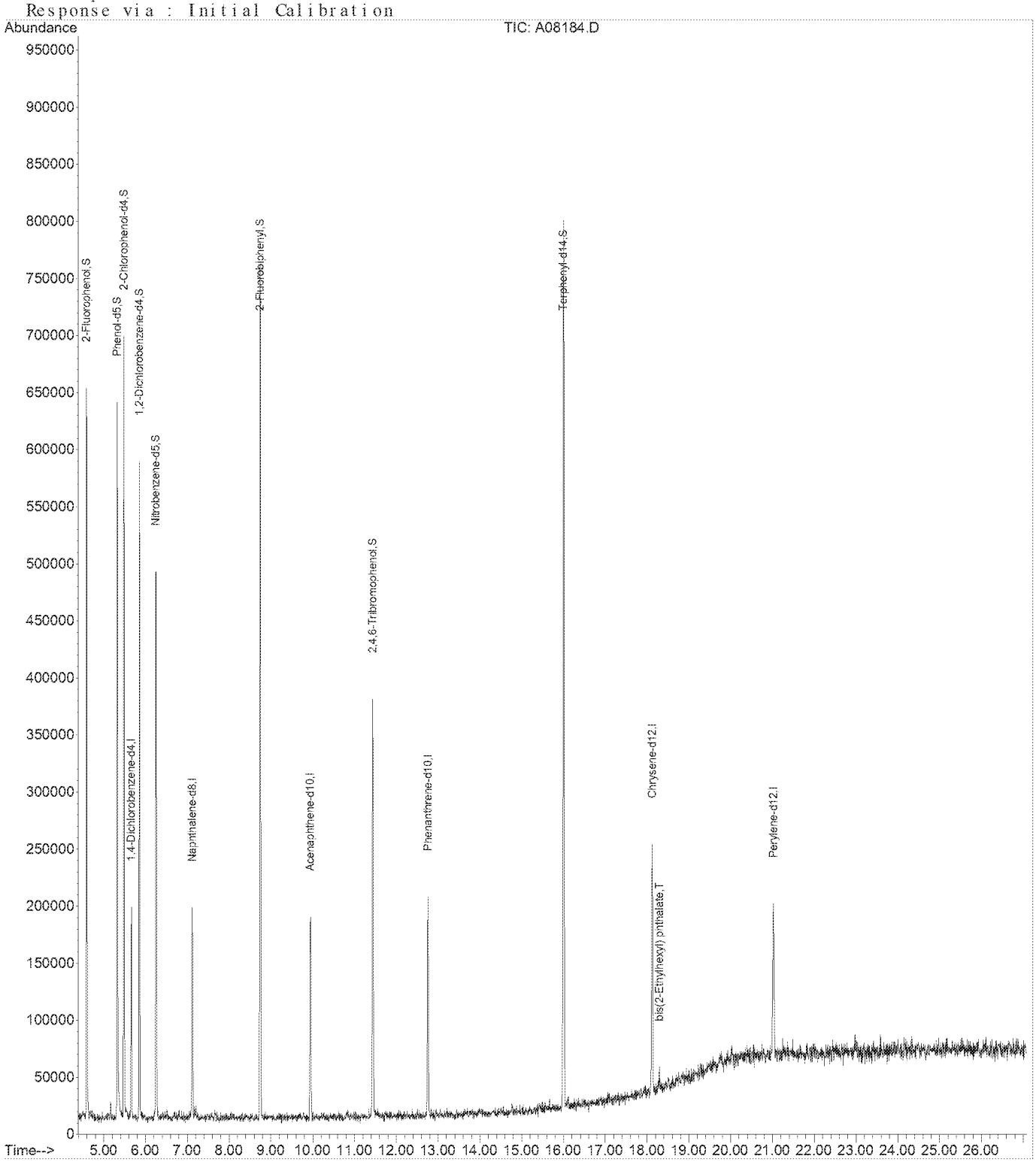
Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	26636	20.00 ng/µl	-0.02
19) Naphthalene-d8	7.12	136	96785	20.00 ng/µl	-0.02
34) Acenaphthene-d10	9.95	164	59676	20.00 ng/µl	-0.02
56) Phenanthrene-d10	12.76	188	115351	20.00 ng/µl	-0.02
68) Chrysene-d12	18.13	240	134485	20.00 ng/µl	-0.03
76) Perylene-d12	21.02	264	108624	20.00 ng/µl	-0.04
System Monitoring Compounds					
2) 2-Fluorophenol	4.59	112	173253	53.99 ng/µl	-0.02
Spiked Amount 75.000	Range 21 - 110		Recovery = 71.99%		
4) Phenol-d5	5.32	99	261399	57.02 ng/µl	-0.02
Spiked Amount 75.000	Range 10 - 110		Recovery = 76.03%		
6) 2-Chlorophenol-d4	5.48	132	163238	54.18 ng/µl	-0.02
Spiked Amount 75.000	Range 33 - 110		Recovery = 72.24%		
11) 1,2-Dichlorobenzene-d4	5.85	152	83943	36.57 ng/µl	-0.02
Spiked Amount 50.000	Range 16 - 110		Recovery = 73.14%		
20) Nitrobenzene-d5	6.25	82	190729	39.93 ng/µl	-0.02
Spiked Amount 50.000	Range 34 - 114		Recovery = 79.86%		
38) 2-Fluorobiphenyl	8.74	172	328011	42.68 ng/µl	-0.02
Spiked Amount 50.000	Range 43 - 116		Recovery = 85.36%		
55) 2,4,6-Tribromophenol	11.44	330	39925	47.81 ng/µl	-0.03
Spiked Amount 75.000	Range 10 - 123		Recovery = 63.75%		
70) Terphenyl-d14	16.00	244	376140	44.65 ng/µl	-0.03
Spiked Amount 50.000	Range 33 - 141		Recovery = 89.30%		
Target Compounds					Qvalue
75) bis(2-Ethylhexyl) phthalat	18.30	149	7098	1.07 ng/µl	89

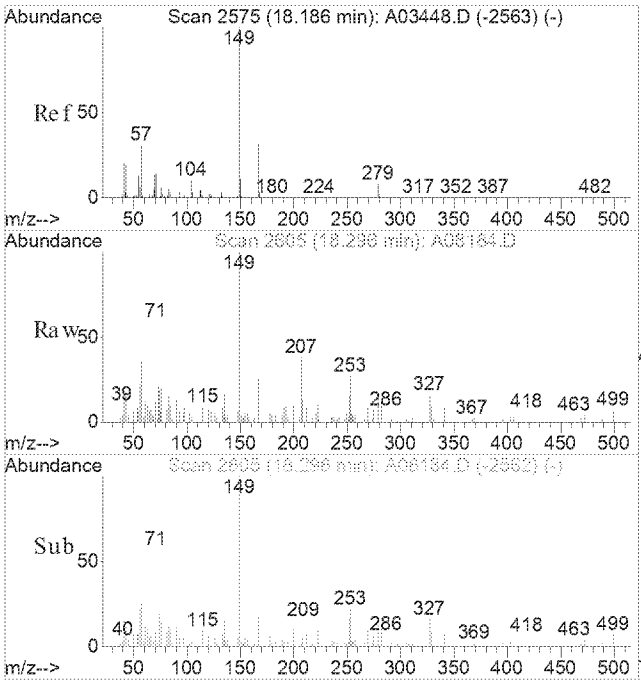
(#) = qualifier out of range (m) = manual integration (+) = signals summed
A08184.D I60629.M Thu Jun 30 08:51:29 2011

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08184.D Vial: 14
Acq On : 29 Jun 2011 6:21 pm Operator: MIZ
Sample : 1106041-006 Inst : DEL6
Msc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 30 8:49 2011 Quant Results File: I60629.RES

Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration

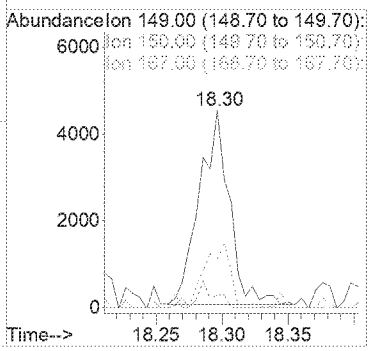




#75
bis(2-Ethylhexyl) phthalate
Concen: 1.07 ng/µl
RT: 18.30 min Scan# 2605
Delta R.T. -0.02 min
Lab File: A08184.D
Acq: 29 Jun 2011 6:21 pm

Tgt Ion: 149 Resp: 7098

Ion	Ratio	Lower	Upper
149	100		
150	6.6	0.0	30.8
167	25.3	11.3	51.3



LSC Area Percent Report

Data File : C:\MSDCHEM 1\DATA\M560629L.MIZ\A08184.D Vial: 14
Acq On : 29 Jun 2011 6:21 pm Operator: MIZ
Sample : 1106041-006 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM 1\METHODS\I60629.M(RTE Integrator)
Title : HSCA TCL + ANILINE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

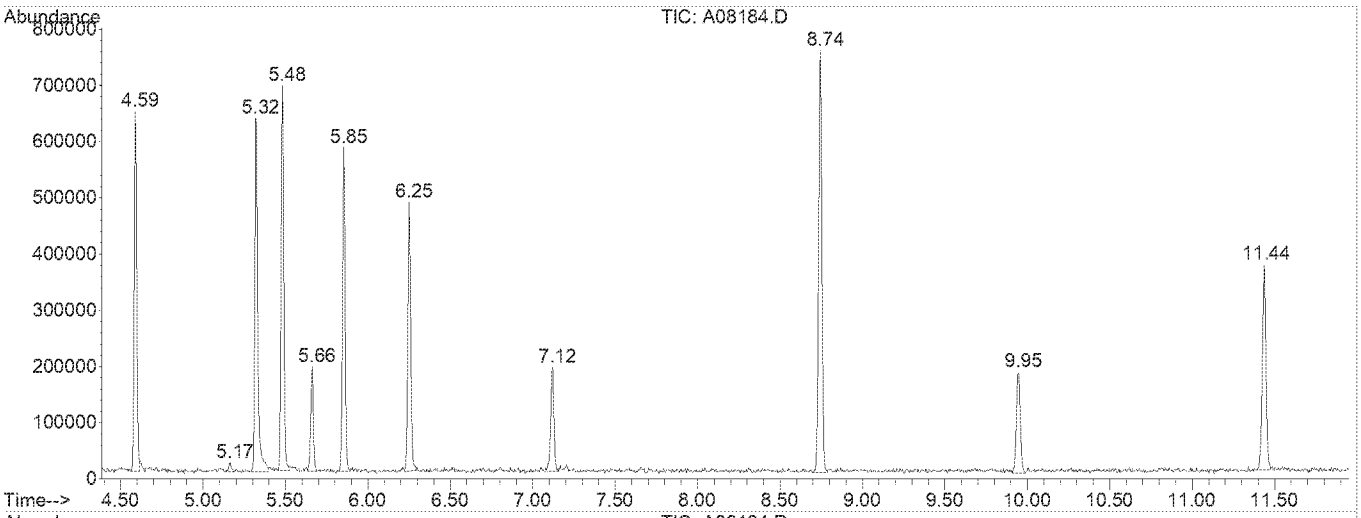
Signal : TIC

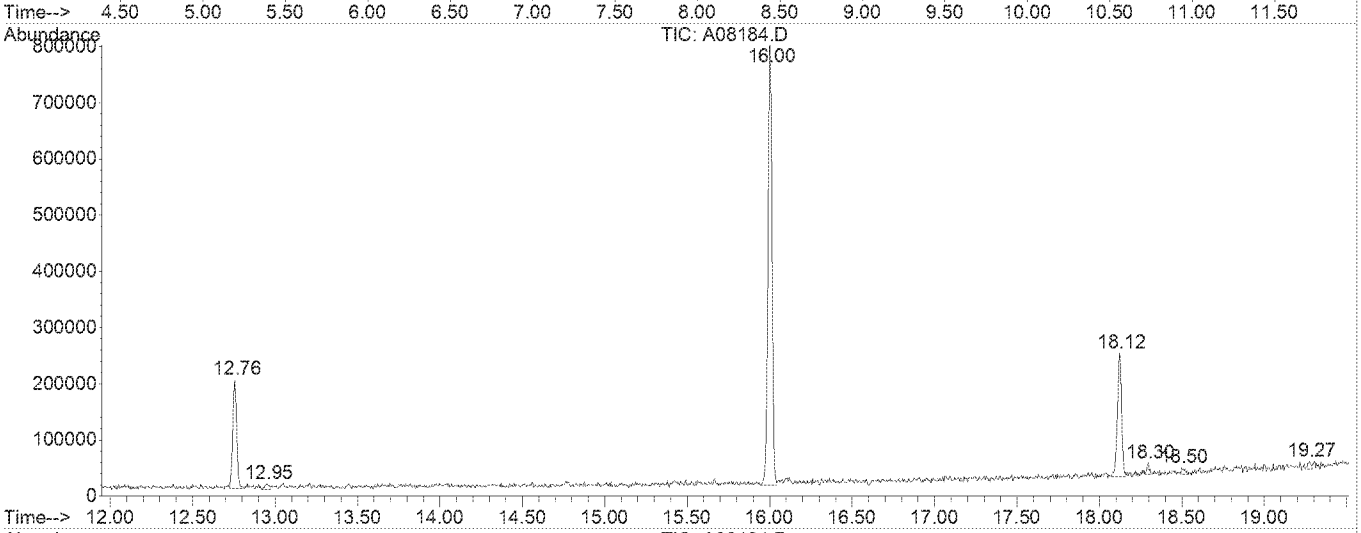
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.588	34	39	44	rBV	640090	676925	50.32%	7.977%
2	5.165	143	147	151	rVB5	15653	19057	1.42%	0.225%
3	5.320	170	176	190	rBV	628385	783181	58.22%	9.229%
4	5.480	201	206	214	rBV	684706	777115	57.77%	9.157%
5	5.662	235	240	245	rVB	184957	201455	14.98%	2.374%
6	5.854	270	276	283	rBV	575421	627536	46.65%	7.395%
7	6.250	345	350	358	rVB	478399	558670	41.53%	6.583%
8	7.120	504	513	520	rVB	184744	257139	19.12%	3.030%
9	8.744	808	817	825	rBV	750388	1041217	77.41%	12.270%
10	9.946	1035	1042	1050	rBV3	179543	301494	22.41%	3.553%
11	11.437	1312	1321	1328	rBV3	365208	560907	41.70%	6.610%
12	12.756	1562	1568	1579	rVB3	194010	320054	23.79%	3.771%
13	12.949	1599	1604	1608	rBV5	10177	18436	1.37%	0.217%
14	15.999	2165	2175	2183	rBV	782480	1345112	100.00%	15.851%
15	18.120	2562	2572	2580	rBV	220112	396292	29.46%	4.670%
16	18.296	2601	2605	2609	rVB6	20267	21895	1.63%	0.258%
17	18.499	2642	2643	2652	rVB9	10730	18135	1.35%	0.214%
18	19.274	2784	2788	2791	rBV6	14185	20070	1.49%	0.237%
19	19.851	2891	2896	2899	rBV6	12856	23774	1.77%	0.280%
20	20.545	3024	3026	3029	rVB3	19657	15552	1.16%	0.183%
21	20.572	3029	3031	3033	rBV3	17101	17598	1.31%	0.207%
22	21.021	3108	3115	3123	rVB2	135150	296975	22.08%	3.500%
23	21.972	3289	3293	3294	rBV3	15697	17100	1.27%	0.202%
24	22.378	3368	3369	3373	rBV4	15071	17070	1.27%	0.201%
25	22.437	3375	3380	3382	rBV6	19086	24383	1.81%	0.287%
26	22.709	3428	3431	3432	rBV3	15987	14206	1.06%	0.167%
27	23.195	3520	3522	3525	rVB3	19089	18122	1.35%	0.214%
28	24.146	3696	3700	3701	rBV4	19684	21065	1.57%	0.248%
29	24.349	3736	3738	3741	rBV4	11912	14857	1.10%	0.175%
30	24.440	3753	3755	3759	rBV5	13129	18843	1.40%	0.222%
31	26.219	4086	4088	4092	rVB5	14325	14137	1.05%	0.167%
32	26.406	4120	4123	4124	rBV3	13184	13777	1.02%	0.162%
33	26.534	4143	4147	4150	rVB6	11513	14012	1.04%	0.165%

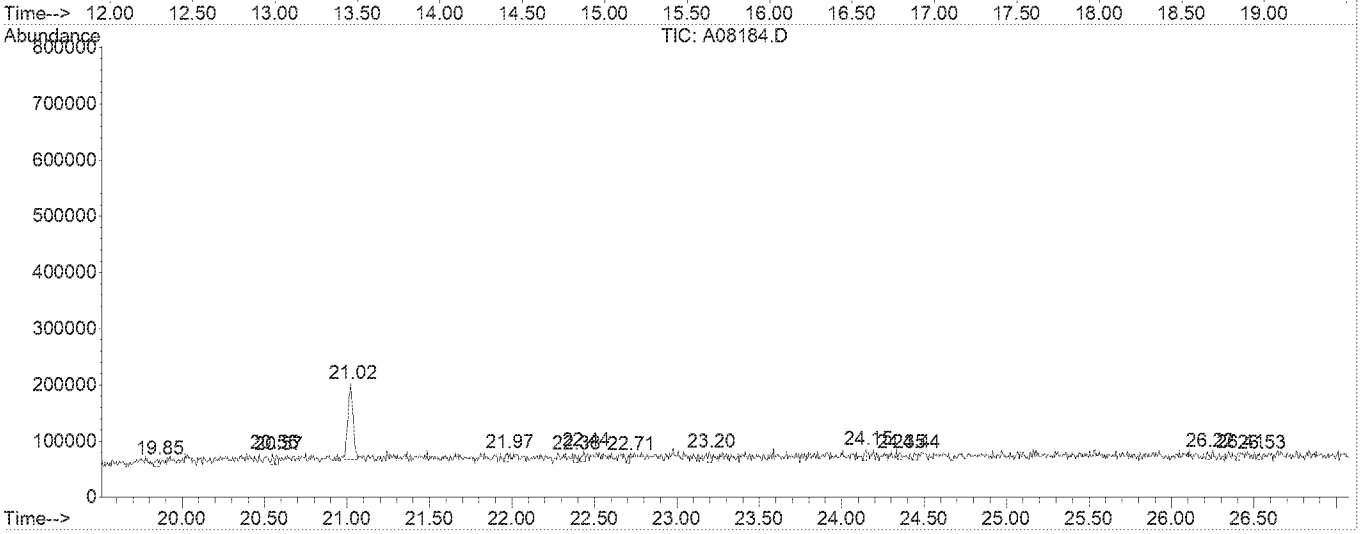
Sum of corrected areas: 8486161

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM 1\DATA\MS60629L.MIZ\A08184.D
Operator : MIZ
Acquired : 29 Jun 2011 6:21 pm using AcqMethod SVOA-LIQ
Instrument : DEL6
Sample Name: 1106041-006
Misc Info : 1
Vial Number: 14
Quant File : I60629.RES (RTE Integrator)







Tentatively Identified Compound (LSC) summary

Operator ID: MIZ Date Acquired: 29 Jun 2011 6:21 pm
Data File: C:\MSDCHEM 1\DATA\MS60629L.MIZ\A08184.D
Name: 1106041-006
Misc: 1
Method: C:\MSDCHEM 1\METHODS\I60629.M(RTE Integrator)
Title: HSCA TCL + ANILINE
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM.1\DATA\MS60706L.MIZ\A08223.D Vial: 7
Acq On : 6 Jul 2011 2:35 pm Operator: MIZ
Sample : 1106041-007 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 06 15:19:12 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM.1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	54516	20.00 ng/µl	0.00
19) Naphthalene-d8	7.06	136	187440	20.00 ng/µl	0.00
34) Acenaphthene-d10	9.88	164	100594	20.00 ng/µl	0.00
56) Phenanthrene-d10	12.69	188	192270	20.00 ng/µl	0.00
68) Chrysene-d12	18.05	240	198749	20.00 ng/µl	0.00
76) Perylene-d12	20.92	264	159784	20.00 ng/µl	0.00
System Monitoring Compounds					
2) 2-Fluorophenol	4.56	112	271118	40.53 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 54.04%		
4) Phenol-d5	5.28	99	425057	44.06 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 58.75%		
6) 2-Chlorophenol-d4	5.44	132	252920	40.03 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 53.37%		
11) 1,2-Dichlorobenzene-d4	5.81	152	137650	29.48 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 58.96%		
20) Nitrobenzene-d5	6.20	82	304833	30.49 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 60.98%		
38) 2-Fluorobiphenyl	8.69	172	498419	35.67 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 71.34%		
55) 2,4,6-Tribromophenol	11.37	330	79402	56.81 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 75.75%		
70) Terphenyl-d14	15.93	244	514700	37.87 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 75.74%		

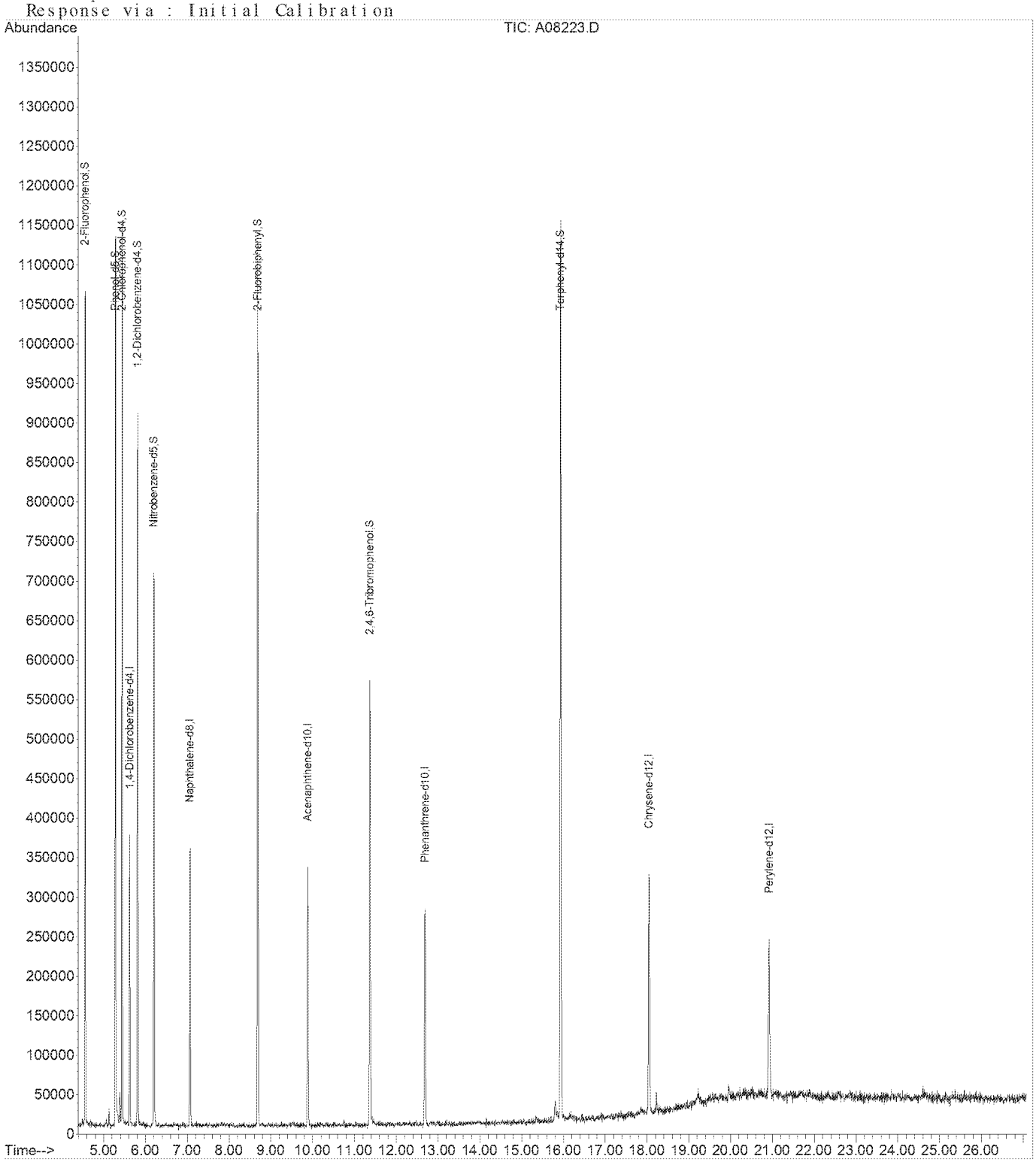
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60706L.MIZ\A08223.D Vial: 7
Acq On : 6 Jul 2011 2:35 pm Operator: MIZ
Sample : 1106041-007 Inst : DEL6
Msc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 7 8:34 2011 Quant Results File: I60705B.RES

Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM1\DATA\MS60706L.MIZ\A08223.D Vial: 7
Acq On : 6 Jul 2011 2:35 pm Operator: MIZ
Sample : 1106041-007 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

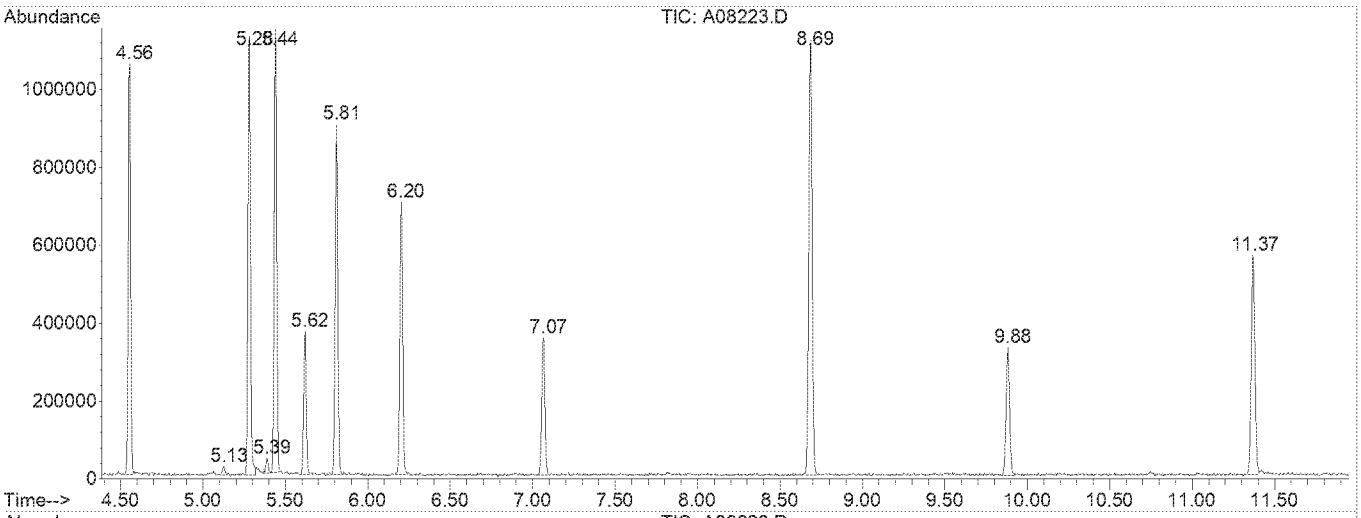
Signal : TIC

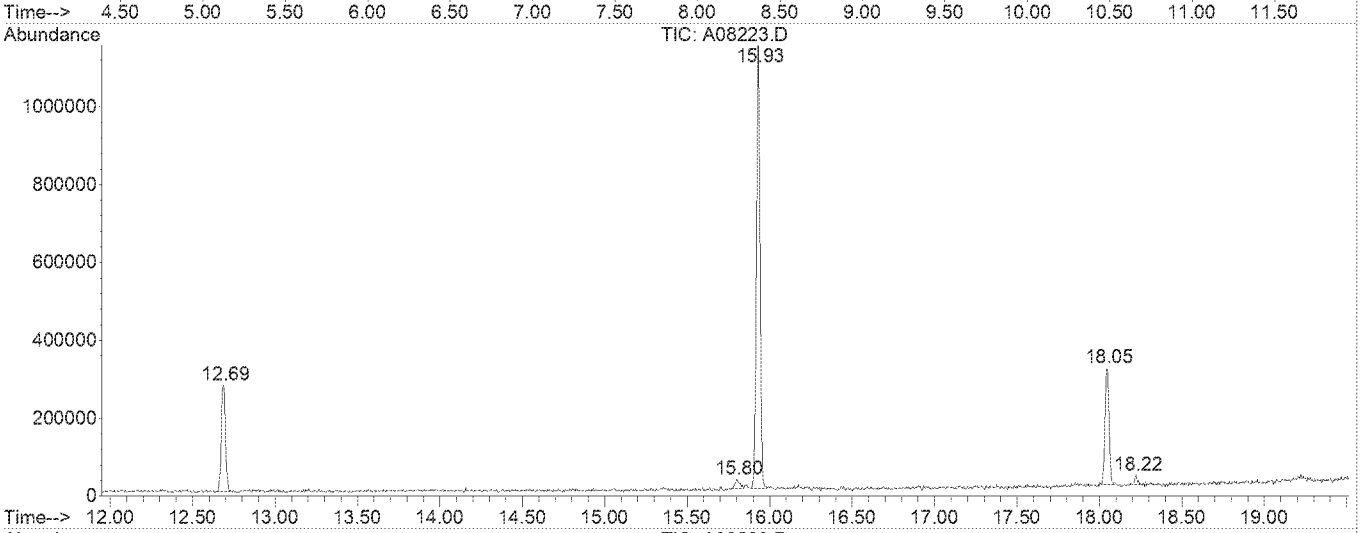
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.556	26	33	37	rBV	1054410	1069548	61.60%	8.569%
2	5.128	136	140	143	rBV4	22840	27798	1.60%	0.223%
3	5.283	164	169	176	rBV	1126583	1211187	69.76%	9.704%
4	5.390	184	189	193	rBV2	38696	44490	2.56%	0.356%
5	5.438	193	198	203	rVV	1138038	1229799	70.83%	9.853%
6	5.619	227	232	238	rBV	367810	399088	22.99%	3.198%
7	5.812	262	268	275	rBV	900973	992140	57.14%	7.949%
8	6.202	332	341	348	rBV	698971	830179	47.81%	6.651%
9	7.067	496	503	509	rVB	352231	464639	26.76%	3.723%
10	8.686	800	806	814	rVB	1116401	1550926	89.33%	12.426%
11	9.882	1023	1030	1038	rBV2	328936	488027	28.11%	3.910%
12	11.368	1300	1308	1315	rBV4	562647	863652	49.74%	6.920%
13	12.687	1548	1555	1562	rBV2	273880	487401	28.07%	3.905%
14	15.802	2132	2138	2146	rBV6	24098	51291	2.95%	0.411%
15	15.930	2153	2162	2172	rBV	1137241	1736244	100.00%	13.911%
16	18.045	2552	2558	2566	rVB2	299006	520263	29.96%	4.168%
17	18.222	2587	2591	2595	rBV3	23798	25728	1.48%	0.206%
18	19.942	2910	2913	2916	rBV4	20224	26158	1.51%	0.210%
19	20.919	3088	3096	3105	rBV3	201917	462602	26.64%	3.706%

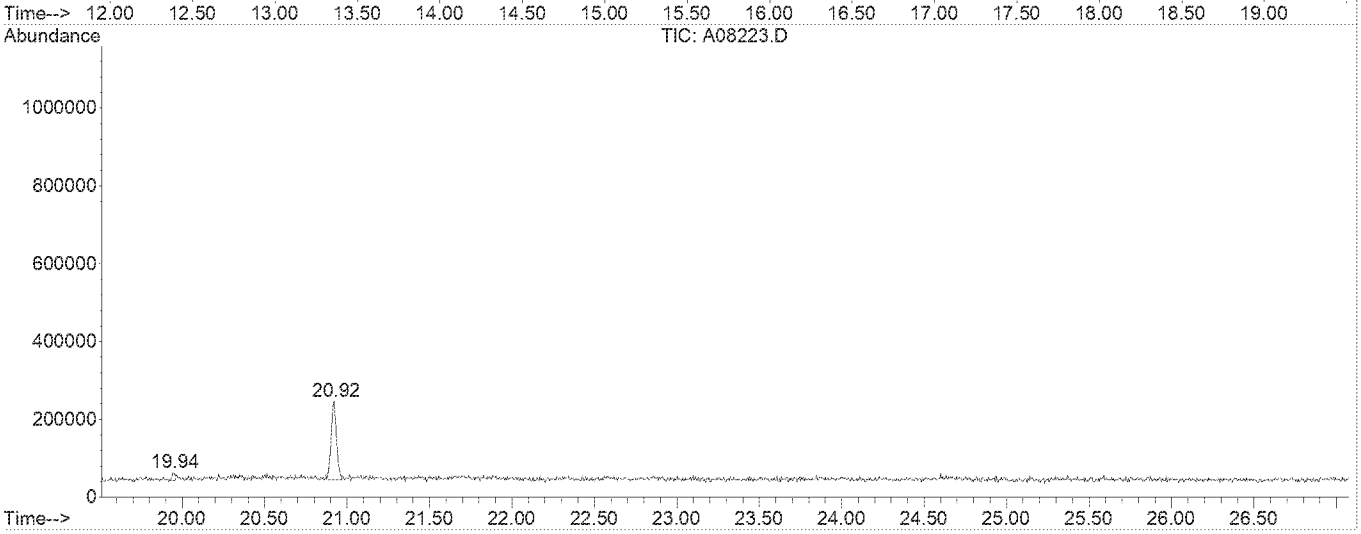
Sum of corrected areas: 12481160

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM 1\DATA\MS60706L.MIZ\A08223.D
Operator : MIZ
Acquired : 6 Jul 2011 2:35 pm using AcqMethod SVOA-LIQ
Instrument : DEL6
Sample Name: 1106041-007
Misc Info : 1
Vial Number: 7
Quant File : I60705B.RES (RTE Integrator)







Library Search Compound Report

Data File : C:\MSDCHEM 1\DATA\MS60706L.MIZ\A08223.D Vial: 7
Acq On : 6 Jul 2011 2:35 pm Operator: MIZ
Sample : 1106041-007 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

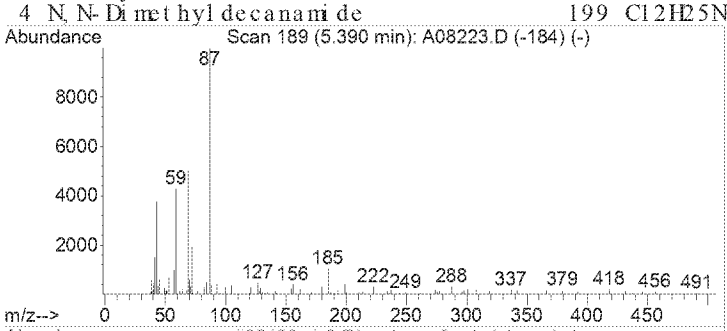
Quant Method : C:\MSDCHEM 1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Library : C:\DATABASE\NIST98.L

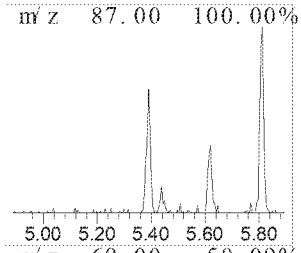
****

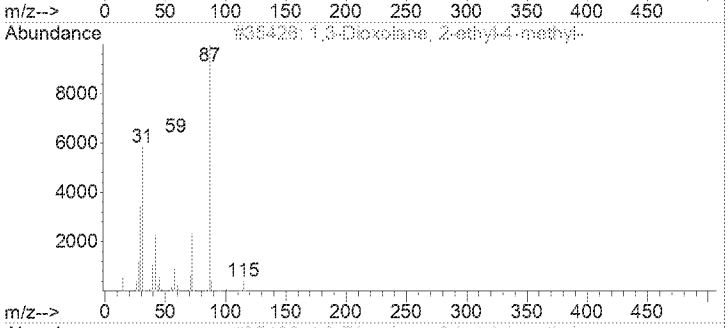
Peak Number 1 Unknown Concentration Rank 1

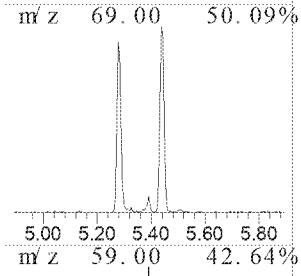
R.T.	Est Conc	Area	Relative to ISTD	R.T.
5.39	2.23 ng/µl	44490	1,4-Dichlorobenzene-d4	5.62

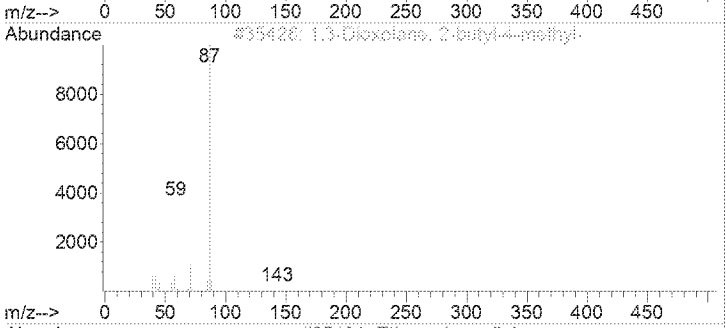
Hit# of 5	Tentative ID	MW	Mol Form	CAS#	Qual
1	1,3-Dioxolane, 2-ethyl-4-methyl-	116	C6H12O2	004359-46-0	64
2	1,3-Dioxolane, 2-butyl-4-methyl-	144	C8H16O2	074094-60-3	42
3	Ethoxycitronellal	198	C12H22O2	1000132-02-6	36
4	N,N-Dimethyldecanamide	199	C12H25NO	014433-76-2	23

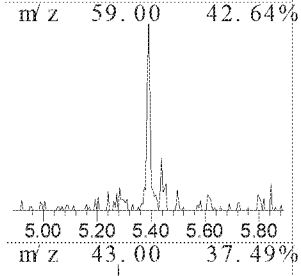


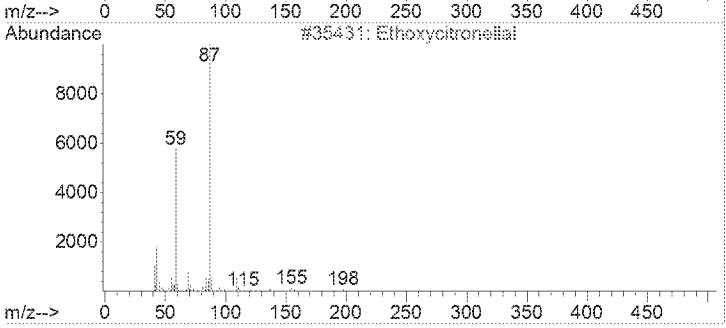


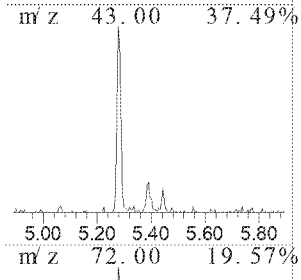


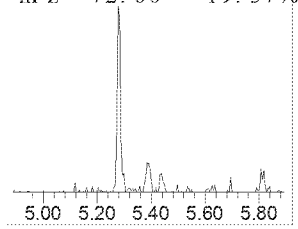












Tentatively Identified Compound (LSC) summary

Operator ID: MIZ Date Acquired: 6 Jul 2011 2:35 pm
Data File: C:\MSDCHEM 1\DATA\MS60706L.MIZ\A08223.D
Name: 1106041-007
Misc: 1
Method: C:\MSDCHEM 1\METHODS\I60705B.M(RTE Integrator)
Title: HSCA TCL + ANILINE
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	Est Conc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Unknown	5.39	2.2	ng/µl	44490	1	5.62	399088	20.0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08186.D Vial: 16
Acq On : 29 Jun 2011 7:35 pm Operator: MIZ
Sample : 1106041-008 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 30 08:11:21 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.67	152	25032	20.00 ng/µl	0.00
19) Naphthalene-d8	7.14	136	81057	20.00 ng/µl	0.00
34) Acenaphthene-d10	9.96	164	54143	20.00 ng/µl	0.00
56) Phenanthrene-d10	12.78	188	105127	20.00 ng/µl	0.00
68) Chrysene-d12	18.14	240	117083	20.00 ng/µl	-0.01
76) Perylene-d12	21.05	264	112270	20.00 ng/µl	0.00

System Monitoring Compounds

2) 2-Fluorophenol	4.60	112	116705	38.70 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 51.60%		
4) Phenol-d5	5.34	99	189097	43.89 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 58.52%		
6) 2-Chlorophenol-d4	5.50	132	125596	44.35 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 59.13%		
11) 1,2-Dichlorobenzene-d4	5.86	152	65917	30.56 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 61.12%		
20) Nitrobenzene-d5	6.27	82	149188	37.29 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 74.58%		
38) 2-Fluorobiphenyl	8.76	172	263248	37.76 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 75.52%		
55) 2,4,6-Tribromophenol	11.46	330	42555	56.17 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 74.89%		
70) Terphenyl-d14	16.03	244	309172	42.15 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 84.30%		

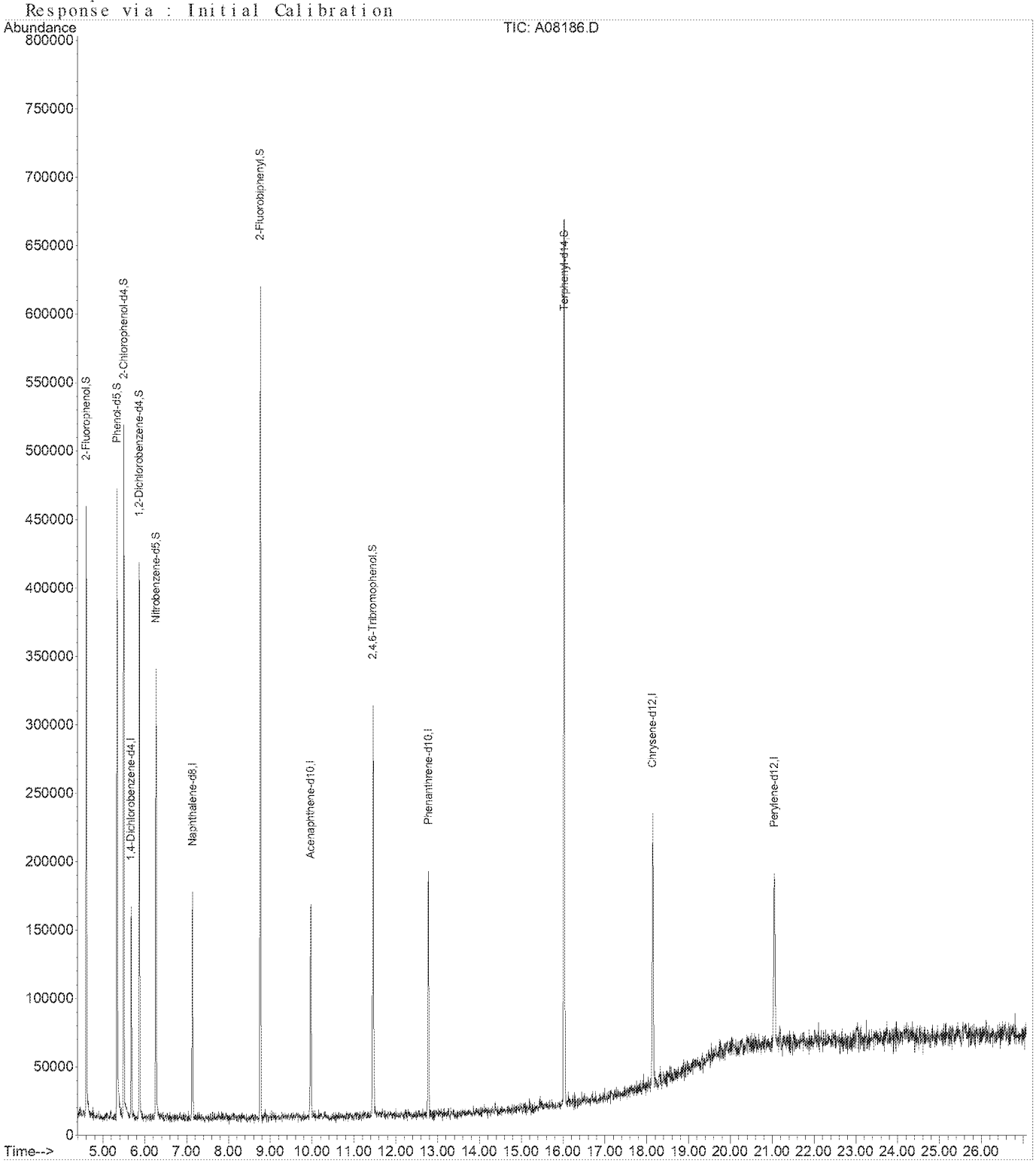
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08186.D Vial: 16
Acq On : 29 Jun 2011 7:35 pm Operator: MIZ
Sample : 1106041-008 Inst : DEL6
Msc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 30 8:52 2011 Quant Results File: I60629.RES

Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM1\DATA\M560629L.MIZ\A08186.D Vial: 16
Acq On : 29 Jun 2011 7:35 pm Operator: MIZ
Sample : 1106041-008 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM1\METHODS\I60629.M(RTE Integrator)
Title : HSCA TCL + ANILINE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

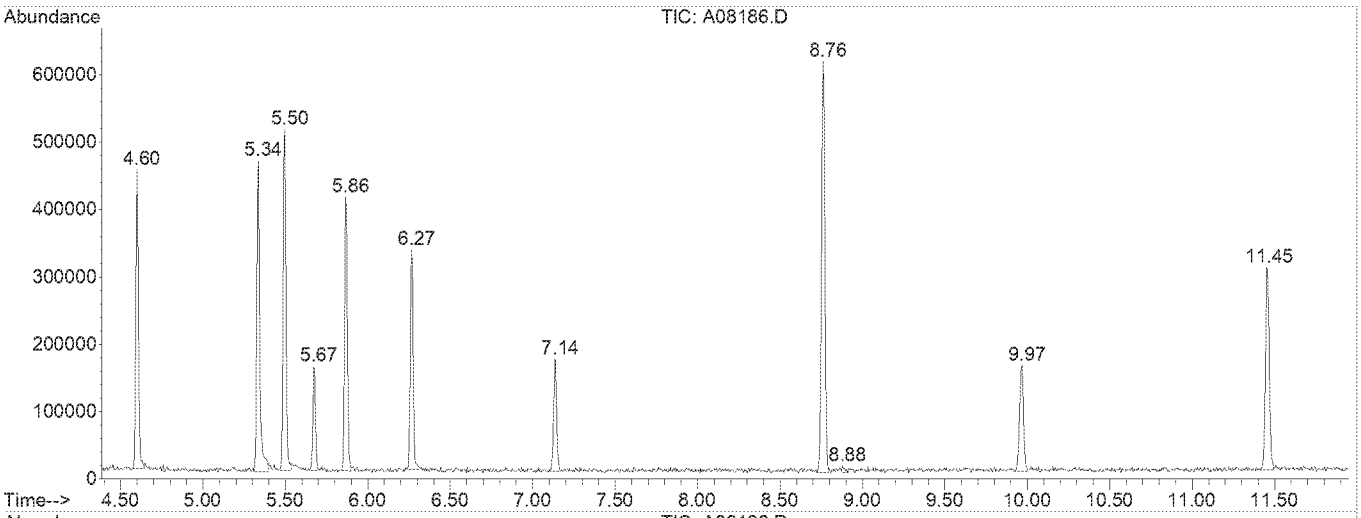
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.599	37	41	49	rBV	444752	481611	44.94%	6.891%
2	5.336	174	179	190	rBV	461664	573886	53.55%	8.211%
3	5.496	202	209	216	rBV	506486	602100	56.19%	8.615%
4	5.673	237	242	247	rBV	155009	171149	15.97%	2.449%
5	5.865	273	278	284	rBV	405998	479478	44.74%	6.860%
6	6.266	348	353	362	rVB2	326385	403499	37.65%	5.773%
7	7.136	510	516	522	rVB	166155	213260	19.90%	3.051%
8	8.760	813	820	826	rBV	610338	846873	79.03%	12.117%
9	8.878	841	842	848	rVB3	9450	10867	1.01%	0.155%
10	9.968	1037	1046	1053	rBV2	157232	259508	24.22%	3.713%
11	11.453	1316	1324	1332	rBV2	300642	471496	44.00%	6.746%
12	12.297	1478	1482	1485	rBV4	8273	11564	1.08%	0.165%
13	12.778	1564	1572	1578	rVV	180845	288119	26.89%	4.122%
14	16.026	2172	2180	2189	rVB	646834	1071610	100.00%	15.332%
15	17.153	2387	2391	2393	rBV4	10252	15140	1.41%	0.217%
16	18.141	2568	2576	2583	rVB2	200476	338851	31.62%	4.848%
17	18.334	2610	2612	2616	rVB4	13204	15152	1.41%	0.217%
18	18.393	2621	2623	2627	rVB4	9521	11254	1.05%	0.161%
19	18.494	2640	2642	2646	rBV5	11127	16566	1.55%	0.237%
20	18.654	2670	2672	2676	rBV5	9070	10881	1.02%	0.156%
21	18.879	2712	2714	2717	rVB4	15844	12289	1.15%	0.176%
22	18.905	2717	2719	2723	rBV5	13905	13130	1.23%	0.188%
23	19.108	2755	2757	2760	rBV4	12298	11381	1.06%	0.163%
24	19.541	2836	2838	2841	rVB4	14781	13071	1.22%	0.187%
25	19.760	2877	2879	2880	rBV2	15211	12590	1.17%	0.180%
26	21.048	3112	3120	3129	rBV2	127082	307548	28.70%	4.400%
27	21.197	3146	3148	3151	rVB4	16162	13074	1.22%	0.187%
28	21.256	3157	3159	3160	rBV2	14491	12033	1.12%	0.172%
29	21.443	3192	3194	3198	rBV5	14521	15358	1.43%	0.220%
30	21.539	3209	3212	3213	rBV3	12730	12630	1.18%	0.181%
31	22.143	3322	3325	3326	rBV3	11927	13181	1.23%	0.189%
32	22.458	3382	3384	3387	rBV3	10177	11520	1.08%	0.165%
33	22.827	3448	3453	3454	rBV5	13241	19250	1.80%	0.275%
34	23.008	3484	3487	3488	rBV3	14825	14534	1.36%	0.208%
35	23.078	3499	3500	3504	rBV4	16711	17725	1.65%	0.254%
36	23.120	3506	3508	3512	rBV5	16912	16630	1.55%	0.238%
37	23.206	3520	3524	3525	rBV3	12817	13468	1.26%	0.193%
38	23.227	3525	3528	3529	rBV3	10820	12079	1.13%	0.173%
39	23.249	3530	3532	3535	rVB4	21495	15086	1.41%	0.216%
40	23.687	3613	3614	3616	rBV2	14716	10959	1.02%	0.157%
41	23.858	3644	3646	3649	rBV4	12610	12983	1.21%	0.186%
42	23.906	3653	3655	3658	rBV4	18099	19328	1.80%	0.277%
43	23.964	3664	3666	3669	rBV4	22208	21816	2.04%	0.312%
44	25.150	3886	3888	3890	rBV3	15980	14521	1.36%	0.208%
45	25.252	3905	3907	3910	rBV4	14495	15949	1.49%	0.228%

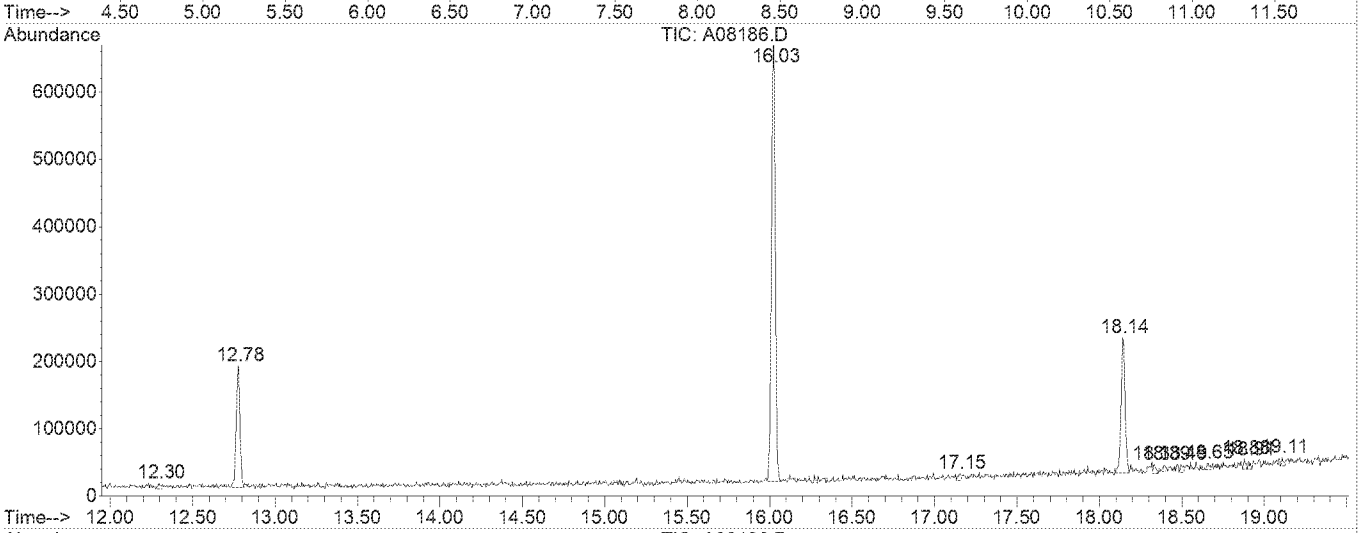
46	25.311	3915	3918	3919	r BV3	17713	17465	1.63%	0.250%
47	25.701	3990	3991	3994	r BV3	17525	14495	1.35%	0.207%
48	26.988	4229	4232	4233	r BV3	12044	12184	1.14%	0.174%

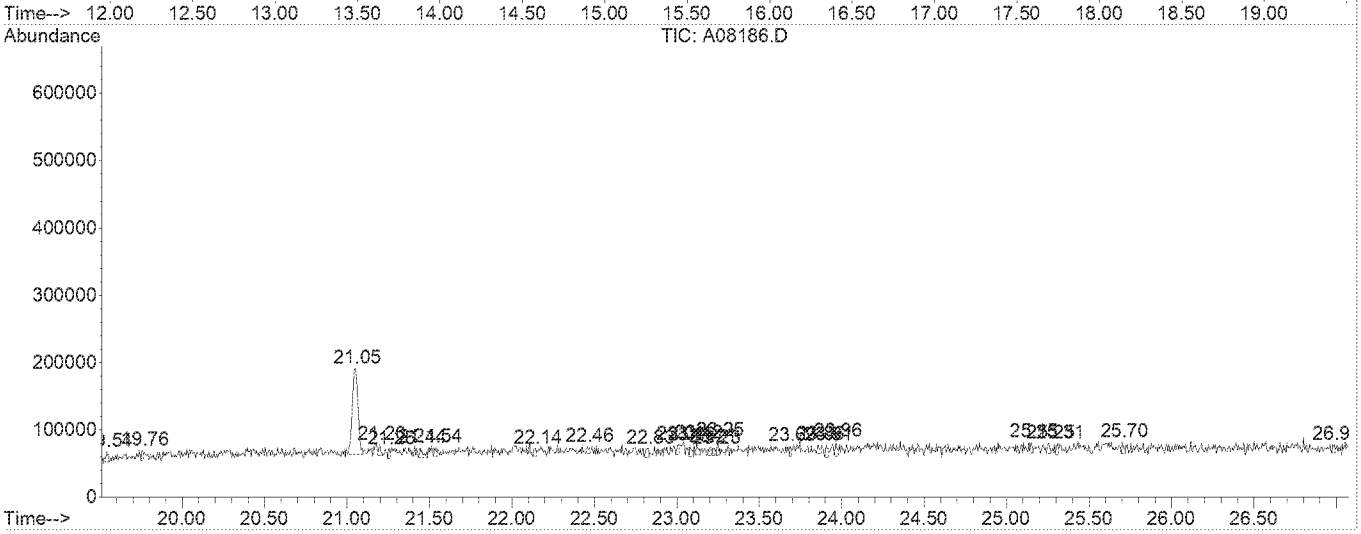
Sum of corrected areas: 6989141

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM 1\DATA\MS60629L.MIZ\A08186.D
Operator : MIZ
Acquired : 29 Jun 2011 7:35 pm using AcqMethod SVOA-LIQ
Instrument : DEL6
Sample Name: 1106041-008
Misc Info : 1
Vial Number: 16
Quant File : I60629.RES (RTE Integrator)







Tentatively Identified Compound (LSC) summary

Operator ID: MIZ Date Acquired: 29 Jun 2011 7:35 pm
Data File: C:\MSDCHEM 1\DATA\MS60629L.MIZ\A08186.D
Name: 1106041-008
Misc: 1
Method: C:\MSDCHEM 1\METHODS\I60629.M(RTE Integrator)
Title: HSCA TCL + ANILINE
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	Est Conc	Units	Response	--Internal Standard--- #	RT	Resp	Conc

Response Factor Report DEL6

Method : C:\MSDCHEM 1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration

Calibration Files
020 =A08168.D 050 =A08174.D 080 =A08170.D
120 =A08171.D 160 =A08172.D

		Compound	020	050	080	120	160	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	ISTD						
2)	S	2-Fluorophenol	2.499	2.509	2.217	2.322	2.500	2.409	5.52
3)	T	Benzaldehyde	4.218	4.069	3.883	3.821	4.223	4.043	4.60
4)	S	Phenol-d5	3.748	3.380	3.335	3.310	3.438	3.442	5.16
5)	M	Phenol	3.367	3.596	3.360	3.397	3.505	3.445	2.97
6)	S	2-Chlorophenol-d4	2.212	2.336	2.204	2.215	2.346	2.262	3.18
7)	M	2-Chlorophenol	2.176	2.321	2.152	2.034	2.214	2.180	4.77
8)	T	bis(2-Chloroethyl	2.341	2.549	2.630	2.423	2.479	2.484	4.48
9)	T	1,3-Dichlorobenze	2.777	2.694	2.471	2.415	2.611	2.594	5.82
10)	M	1,4-Dichlorobenze	2.980	2.777	2.586	2.568	2.694	2.721	6.16
11)	S	1,2-Dichlorobenze	1.779	1.697	1.772	1.606	1.765	1.724	4.25
12)	T	1,2-Dichlorobenze	2.504	2.564	2.447	2.315	2.515	2.469	3.87
13)	T	2-Methylphenol	2.450	2.829	2.594	2.508	2.689	2.614	5.75
14)	T	2,2'-oxybis(1-Chl	1.755	1.529	1.527	1.459	1.551	1.564	7.17
15)	T	Hexachloroethane	1.166	1.163	1.074	1.023	1.114	1.108	5.48
16)	T	Acetophenone	4.218	4.069	3.883	3.821	4.223	4.043	4.60
17)	T	4-Methylphenol	2.888	2.504	2.554	2.390	2.493	2.566	7.39
18)	M	N-Nitroso-di-n-pr	2.191	2.356	2.257	2.248	2.419	2.294	3.98
19)	I	Naphthalene-d8	ISTD						
20)	S	Nitrobenzene-d5	1.013	1.013	0.912	0.974	1.023	0.987	4.65
21)	T	Nitrobenzene	0.926	0.997	0.862	0.951	0.999	0.947	6.00
22)	T	Isophorone	1.696	1.730	1.468	1.611	1.764	1.654	7.17
23)	T	2-Nitrophenol	0.405	0.381	0.305	0.339	0.366	0.359	10.75
24)	T	2,4-Dimethylpheno	0.728	0.520	0.549	0.544	0.520	0.572	15.42
25)	T	bis(2-Chloroethox	0.818	0.884	0.774	0.813	0.852	0.828	5.05
26)	T	2,4-Dichloropheno	0.566	0.586	0.509	0.544	0.581	0.557	5.68
27)	M	1,2,4-Trichlorobe	0.645	0.729	0.624	0.646	0.687	0.666	6.28
28)	T	Naphthalene	1.778	1.852	1.696	1.739	1.817	1.776	3.49
29)	T	4-Chloroaniline	0.740	0.786	0.703	0.770	0.779	0.756	4.52
30)	T	Hexachlorobutadie	0.477	0.477	0.408	0.468	0.464	0.459	6.34
31)	T	Caprolactam	0.203	0.247	0.211	0.233	0.243	0.228	8.63
32)	M	4-Chloro-3-methyl	0.689	0.730	0.660	0.715	0.718	0.703	3.99
33)	T	2-Methylnaphthale	1.205	1.219	1.108	1.142	1.229	1.181	4.48
34)	I	Acenaphthene-d10	ISTD						
35)	T	Hexachlorocyclope	0.948	0.894	0.808	0.883	0.838	0.874	6.17
36)	T	2,4,6-Trichloroph	0.785	0.748	0.699	0.704	0.714	0.730	4.94
37)	T	2,4,5-Trichloroph	0.899	0.757	0.755	0.777	0.754	0.788	7.94
38)	S	2-Fluorobiphenyl	2.642	2.620	2.542	2.501	2.572	2.575	2.23
39)		1,1'-Biphenyl	2.748	2.527	2.336	2.440	2.440	2.498	6.20
40)	T	2-Chloronaphthale	2.062	1.895	1.826	1.862	1.904	1.910	4.73
41)	T	2-Nitroaniline	0.804	0.840	0.810	0.808	0.784	0.809	2.50
42)	T	Acenaphthylene	3.161	3.134	2.895	2.936	3.075	3.040	3.92
43)	T	Dimethyl phthalat	2.368	2.336	2.156	2.285	2.372	2.303	3.89
44)	T	2,6-Dinitrotoluen	0.608	0.550	0.503	0.528	0.525	0.543	7.40
45)	T	3-Nitroaniline	0.552	0.560	0.515	0.533	0.487	0.529	5.57
46)	M	Acenaphthene	2.048	1.935	1.752	1.776	1.788	1.860	6.84
47)	T	2,4-Dinitrophenol	0.336	0.360	0.302	0.383	0.332	0.343	8.87
48)	T	Dibenzofuran	2.833	2.821	2.646	2.715	2.712	2.745	2.90
49)	M	4-Nitrophenol	0.517	0.567	0.474	0.604	0.516	0.536	9.41
50)	M	2,4-Dinitrotoluen	0.694	0.735	0.693	0.750	0.725	0.719	3.49
51)	T	Fluorene	2.508	2.449	2.169	2.297	2.265	2.338	5.94
52)	T	Diethyl phthalate	2.465	2.346	2.175	2.262	2.258	2.301	4.77
53)	T	4-Chlorophenyl-ph	1.378	1.333	1.272	1.270	1.222	1.295	4.69
54)	T	4-Nitroaniline	0.540	0.528	0.479	0.528	0.460	0.507	6.95
55)	S	2,4,6-Tribromphe	0.340	0.250	0.239	0.300	0.270	0.280	14.56
56)	I	Phenanthrene-d10	ISTD						

(#) = Out of Range

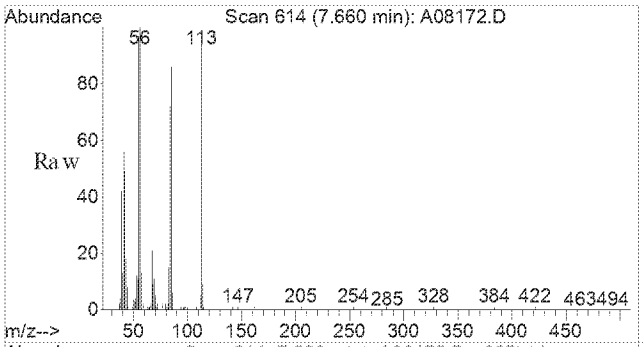
Response Factor Report DEL6

Method : C:\MSDCHEM.1\METHODS\I60629.M(RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration

Calibration Files
020 =A08168.D 050 =A08174.D 080 =A08170.D
120 =A08171.D 160 =A08172.D

		Compound	020	050	080	120	160	Avg	%RSD
57)	T	4,6-Dinitro-2-met	0.227	0.273	0.234	0.256	0.237	0.246	7.70
58)	T	N-Nitrosodiphenyl	0.828	0.850	0.826	0.794	0.820	0.824	2.40
59)	T	4-Bromophenyl-phe	0.366	0.390	0.372	0.345	0.353	0.365	4.78
60)		Atrazine	0.405	0.416	0.362	0.398	0.390	0.394	5.22
61)	T	Hexachlorobenzene	0.348	0.359	0.324	0.324	0.329	0.337	4.76
62)	M	Pentachlorophenol	0.082	0.081	0.091	0.126	0.095	0.095	19.35
63)	T	Phenanthrene	1.737	1.711	1.596	1.615	1.641	1.660	3.69
64)	T	Anthracene	1.666	1.784	1.651	1.643	1.645	1.678	3.60
65)	T	Carbazole	1.539	1.494	1.347	1.438	1.375	1.439	5.57
66)	T	Di-n-butyl phthal	1.848	1.896	1.757	1.775	1.814	1.818	3.09
67)	T	Fluoranthene	1.970	1.995	1.710	1.912	1.851	1.888	6.03
68)	I	Chrysene-d12	ISTD						
69)	M	Pyrene	1.812	1.856	1.633	1.574	1.880	1.751	7.90
70)	S	Terphenyl-d14	1.324	1.295	1.193	1.131	1.322	1.253	6.91
71)	T	Butyl benzyl phth	0.716	0.729	0.659	0.657	0.761	0.705	6.48
72)	T	Benzo(a)Anthracen	1.697	1.771	1.606	1.695	1.787	1.712	4.22
73)	T	3,3'-Dichlorobenz	0.588	0.634	0.497	0.487	0.431	0.527	15.54
74)	T	Chrysene	1.540	1.722	1.525	1.602	1.650	1.608	5.04
75)	T	bis(2-Ethylhexyl)	0.930	1.049	0.924	0.951	1.093	0.990	7.77
76)	I	Perylene-d12	ISTD						
77)	T	Di-n-octyl phthal	2.031	2.034	1.902	1.875	1.883	1.945	4.13
78)	T	Benzo(b)fluoranth	1.835	1.944	1.879	1.945	1.922	1.905	2.48
79)	T	Benzo(k)fluoranth	1.977	1.931	1.767	1.928	1.902	1.901	4.19
80)	T	Benzo(a)pyrene	1.879	1.910	1.762	1.931	1.910	1.879	3.60
81)	T	Indeno(1,2,3-cd)p	2.067	2.256	1.862	1.910	2.203	2.060	8.44
82)	T	Dibenz(a,h)anthra	1.697	1.878	1.548	1.574	1.784	1.696	8.23
83)	T	Benzo(g,h,i)peryl	1.698	2.036	1.545	1.590	1.852	1.744	11.56

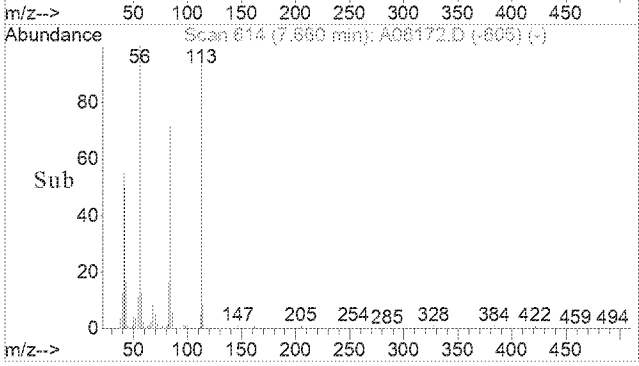
(#) = Out of Range

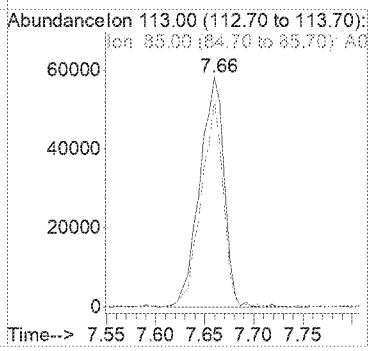


#31
Caprolactam
Concen: 87.90 ng/µl m
RT: 7.66 min Scan# 614
Delta R.T. 0.01 min
Lab File: A08172.D
Acq: 29 Jun 2011 11:38 am

Tgt Ion: 113 Resp: 100603

Ion	Ratio	Lower	Upper
113	100		
85	5.8	47.4	71.2#





Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08172.D Vial: 6
Acq On : 29 Jun 2011 11:38 am Operator: MIZ
Sample : BNA MIX 1&2 160 Inst : DEL6
Misc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 12:39:59 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 11:54:16 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.67	152	27392	20.00 ng/µl	0.00
19) Naphthalene-d8	7.13	136	103460	20.00 ng/µl	0.00
34) Acenaphthene-d10	9.96	164	74254	20.00 ng/µl	-0.01
56) Phenanthrene-d10	12.77	188	148870	20.00 ng/µl	-0.01
68) Chrysene-d12	18.14	240	154568	20.00 ng/µl	-0.01
76) Perylene-d12	21.04	264	149058	20.00 ng/µl	-0.02
System Monitoring Compounds					
2) 2-Fluorophenol	4.60	112	273873	82.68 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 110.24%#		
4) Phenol-d5	5.33	99	376706	78.42 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 104.56%		
6) 2-Chlorophenol-d4	5.49	132	257060	81.95 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 109.27%		
11) 1,2-Dichlorobenzene-d4	5.86	152	193346	80.74 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 161.48%#		
20) Nitrobenzene-d5	6.26	82	423477	83.65 ng/µl	-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 167.30%#		
38) 2-Fluorobiphenyl	8.75	172	764029	78.24 ng/µl	-0.01
Spiked Amount 50.000	Range 43 - 116		Recovery = 156.48%#		
55) 2,4,6-Tribromophenol	11.45	330	80093	75.77 ng/µl	-0.01
Spiked Amount 75.000	Range 10 - 123		Recovery = 101.03%		
70) Terphenyl-d14	16.02	244	817076	93.35 ng/µl	-0.01
Spiked Amount 50.000	Range 33 - 141		Recovery = 186.70%#		

Target Compounds					Qvalue
3) Benzaldehyde	6.08	105	462754	83.26 ng/µl	96
5) Phenol	5.34	94	384066	80.26 ng/µl	84
7) 2-Chlorophenol	5.51	128	242559	80.92 ng/µl	98
8) bis(2-Chloroethyl) ether	5.42	93	271583	78.46 ng/µl #	81
9) 1,3-Dichlorobenzene	5.64	146	286121	80.03 ng/µl	98
10) 1,4-Dichlorobenzene	5.69	146	295185	78.35 ng/µl	92
12) 1,2-Dichlorobenzene	5.88	146	275562	80.96 ng/µl	95
13) 2-Methylphenol	5.91	108	294680	82.52 ng/µl	95
14) 2,2'-oxybis(1-Chloropropan	5.94	45	169916	77.67 ng/µl #	42
15) Hexachloroethane	6.21	117	122058	80.70 ng/µl #	68
16) Acetophenone	6.08	105	462754	83.26 ng/µl	94
17) 4-Methylphenol	6.05	108	273158	77.03 ng/µl	87
18) N-Nitroso-di-n-propylamine	6.08	70	265030	82.74 ng/µl #	74
21) Nitrobenzene	6.28	77	413243	85.42 ng/µl	83
22) Isophorone	6.53	82	730058	86.16 ng/µl	86
23) 2-Nitrophenol	6.66	139	151326	83.74 ng/µl #	67
24) 2,4-Dimethylphenol	6.65	107	215058	72.69 ng/µl	97
25) bis(2-Chloroethoxy) methan	6.77	93	352438	83.50 ng/µl	90
26) 2,4-Dichlorophenol	6.94	162	240555	83.39 ng/µl	87
27) 1,2,4-Trichlorobenzene	7.07	180	284230	83.36 ng/µl	83
28) Naphthalene	7.16	128	751968	82.34 ng/µl	92
29) 4-Chloroaniline	7.22	127	322423	83.07 ng/µl	86
30) Hexachlorobutadiene	7.38	225	192071	80.80 ng/µl	90
31) Caprolactam	7.66	113	100603m	87.90 ng/µl	
32) 4-Chloro-3-methylphenol	7.89	107	297116	82.47 ng/µl	92
33) 2-Methylnaphthalene	8.15	142	508783	83.15 ng/µl	87
35) Hexachlorocyclopentadiene	8.50	237	248768	76.34 ng/µl	90
36) 2,4,6-Trichlorophenol	8.63	196	212009	77.08 ng/µl #	82
37) 2,4,5-Trichlorophenol	8.71	196	223899	75.59 ng/µl	95
39) 1,1'-Biphenyl	8.92	154	724756	77.45 ng/µl	100
40) 2-Chloronaphthalene	8.95	162	565493	77.90 ng/µl	100
41) 2-Nitroaniline	9.15	65	232756	77.22 ng/µl	84

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08172.D Vial: 6
Acq On : 29 Jun 2011 11:38 am Operator: MIZ
Sample : BNA MIX 1&2 160 Inst : DEL6
Misc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 12:39:59 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 11:54:16 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

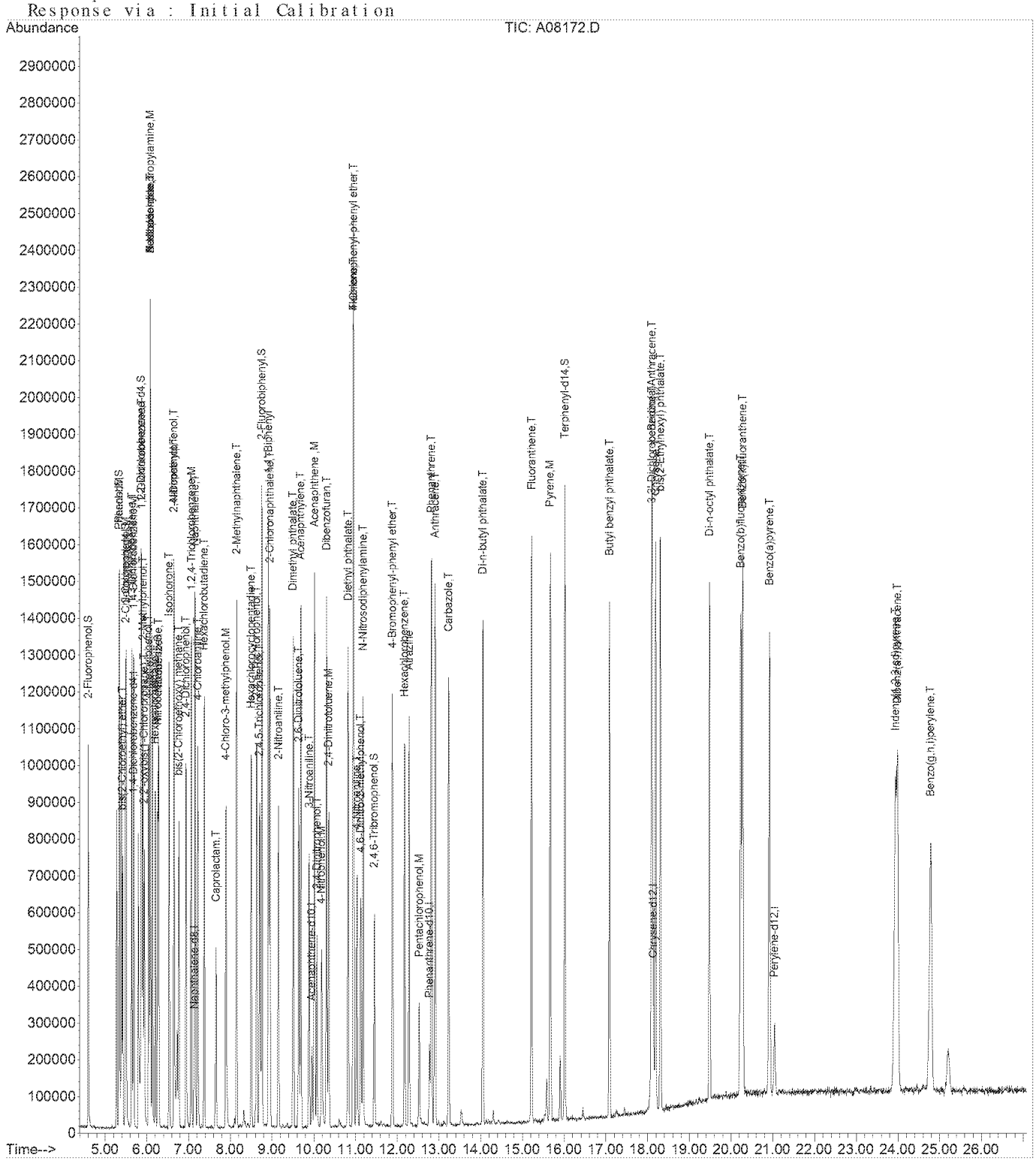
Compound	R.T.	Qion	Response	Conc Unit	Qvalue
42) Acenaphthylene	9.69	152	913321	81.02 ng/µl	100
43) Dimethyl phthalate	9.51	163	704636	81.74 ng/µl	85
44) 2,6-Dinitrotoluene	9.64	165	155887m	94.13 ng/µl	
45) 3-Nitroaniline	9.89	138	144669	73.98 ng/µl #	85
46) Acenaphthene	10.02	153	531143	75.97 ng/µl	93
47) 2,4-Dinitrophenol	10.07	184	98673	80.99 ng/µl	92
48) Dibenzofuran	10.31	168	805406	78.64 ng/µl	93
49) 4-Nitrophenol	10.19	109	153197	76.72 ng/µl #	38
50) 2,4-Dinitrotoluene	10.36	165	215220	79.78 ng/µl	86
51) Fluorene	10.96	166	672710	78.21 ng/µl	95
52) Diethyl phthalate	10.82	149	670725	79.29 ng/µl	95
53) 4-Chlorophenyl-phenyl ethe	10.95	204	362987	75.44 ng/µl	89
54) 4-Nitroaniline	11.04	138	136725	73.28 ng/µl	91
57) 4,6-Dinitro-2-methylphenol	11.13	198	141290	78.88 ng/µl	89
58) N-Nitrosodiphenylamine	11.18	169	488390	79.17 ng/µl	95
59) 4-Bromophenyl-phenyl ether	11.89	248	210054	77.81 ng/µl	93
60) Atrazine	12.29	200	232051	79.01 ng/µl	92
61) Hexachlorobenzene	12.18	284	195778	77.73 ng/µl	79
62) Pentachlorophenol	12.53	266	56720	81.89 ng/µl	89
63) Phenanthrene	12.82	178	977070	79.21 ng/µl	97
64) Anthracene	12.91	178	979333	78.23 ng/µl	95
65) Carbazole	13.23	167	818714	76.25 ng/µl	98
66) Di-n-butyl phthalate	14.05	149	1080160	80.58 ng/µl	95
67) Fluoranthene	15.22	202	1102236	81.17 ng/µl	86
69) Pyrene	15.67	202	1162187	94.90 ng/µl	83
71) Butyl benzyl phthalate	17.08	149	470755	90.70 ng/µl	86
72) Benzo(a)Anthracene	18.11	228	1105047	88.53 ng/µl	99
73) 3,3'-Dichlorobenzidine	18.09	252	266492	67.21 ng/µl	96
74) Chrysene	18.19	228	1020167	87.33 ng/µl	96
75) bis(2-Ethylhexyl) phthalat	18.31	149	676038	92.23 ng/µl	96
77) Di-n-octyl phthalate	19.48	149	1122995	75.24 ng/µl	98
78) Benzo(b)fluoranthene	20.23	252	1145784	86.30 ng/µl	97
79) Benzo(k)fluoranthene	20.28	252	1134122	86.63 ng/µl	96
80) Benzo(a)pyrene	20.92	252	1139044	87.65 ng/µl	85
81) Indeno(1,2,3-cd)pyrene	23.93	276	1313526	98.29 ng/µl	87
82) Dibenz(a,h)anthracene	23.99	278	1063626	96.47 ng/µl	98
83) Benzo(g,h,i)perylene	24.78	276	1104165	99.09 ng/µl	97

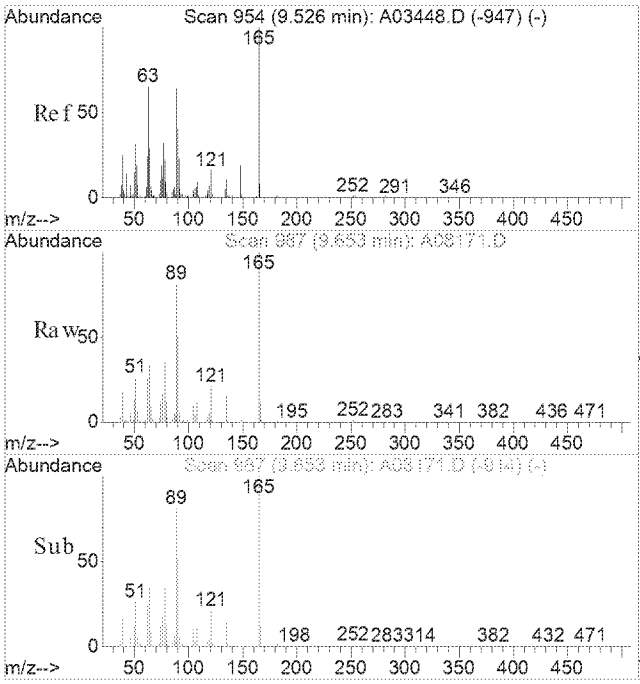
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08172.D Vial: 6
Acq On : 29 Jun 2011 11:38 am Operator: MIZ
Sample : BNA MIX 1&2 160 Inst : DEL6
Msc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 12:41 2011 Quant Results File: I60629.RES

Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration

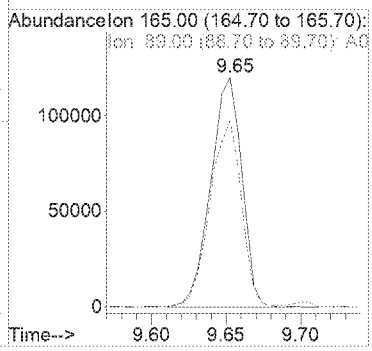


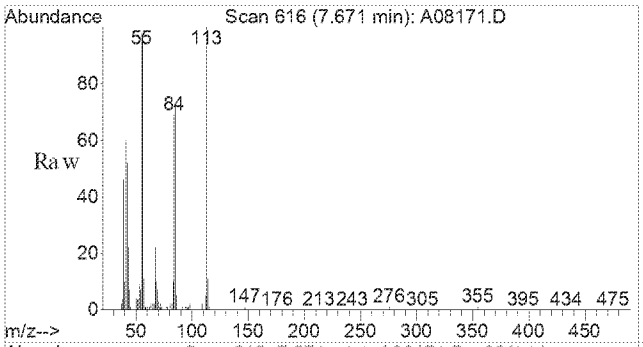


#44
2, 6-Dinitrotoluene
Concen: 82.47 ng/µl m
RT: 9.65 min Scan# 987
Delta R.T. 0.14 min
Lab File: A08171.D
Acq: 29 Jun 2011 11:01 am

Tgt Ion: 165 Resp: 174562

Ion	Ratio	Lower	Upper
165	100		
89	81.5	37.5	77.5#

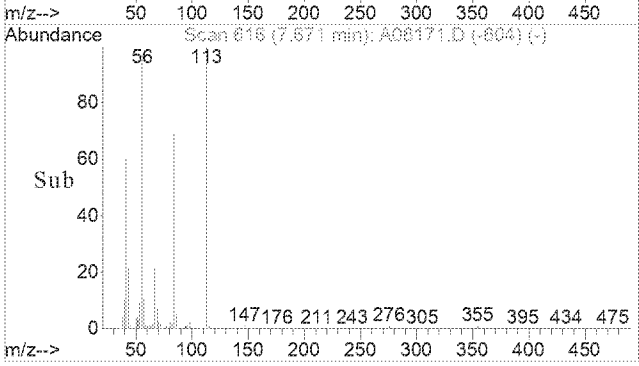


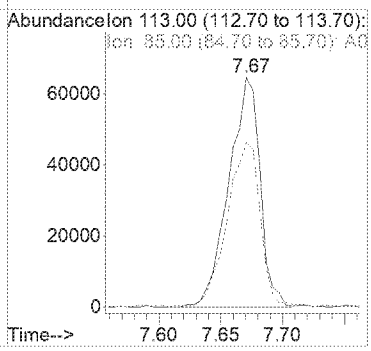


#31
Caprolactam
Concen: 73.16 ng/µl m
RT: 7.67 min Scan# 616
Delta R.T. 0.02 min
Lab File: A08171.D
Acq: 29 Jun 2011 11:01 am

Tgt Ion: 113 Resp: 113360

Ion	Ratio	Lower	Upper
113	100		
85	5.4	47.4	71.2#





Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08171.D Vial: 5
Acq On : 29 Jun 2011 11:01 am Operator: MIZ
Sample : BNA MIX 1&2 120 Inst : DEL6
Misc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 11:29:38 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 10:56:19 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	43831	20.00 ng/µl	0.00
19) Naphthalene-d8	7.14	136	162018	20.00 ng/µl	0.00
34) Acenaphthene-d10	9.97	164	110182	20.00 ng/µl	0.00
56) Phenanthrene-d10	12.78	188	234777	20.00 ng/µl	0.00
68) Chrysene-d12	18.16	240	305676	20.00 ng/µl	0.00
76) Perylene-d12	21.06	264	292526	20.00 ng/µl	0.00
System Monitoring Compounds					
2) 2-Fluorophenol	4.60	112	305351	64.57 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 86.09%		
4) Phenol-d5	5.34	99	435199	63.60 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 84.80%		
6) 2-Chlorophenol-d4	5.50	132	291216	66.01 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 88.01%		
11) 1,2-Dichlorobenzene-d4	5.87	152	211235	64.29 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 128.58%#		
20) Nitrobenzene-d5	6.27	82	473488	70.52 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 141.04%#		
38) 2-Fluorobiphenyl	8.77	172	826568	66.29 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 132.58%#		
55) 2,4,6-Tribromophenol	11.46	330	99243	69.32 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 92.43%		
70) Terphenyl-d14	16.03	244	1037317	63.30 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 126.60%		
Target Compounds					Qvalue
3) Benzaldehyde	6.09	105	502443	66.03 ng/µl	92
5) Phenol	5.35	94	446706	65.63 ng/µl	89
7) 2-Chlorophenol	5.51	128	267477	61.96 ng/µl	96
8) bis(2-Chloroethyl) ether	5.43	93	318651	65.08 ng/µl	85
9) 1,3-Dichlorobenzene	5.65	146	317510	63.92 ng/µl	97
10) 1,4-Dichlorobenzene	5.69	146	337615	64.45 ng/µl	92
12) 1,2-Dichlorobenzene	5.88	146	304395	65.03 ng/µl	95
13) 2-Methylphenol	5.91	108	329821	67.05 ng/µl	93
14) 2,2'-oxybis(1-Chloropropan	5.95	45	191826	40.36 ng/µl #	22
15) Hexachloroethane	6.21	117	134533	63.98 ng/µl #	60
16) Acetophenone	6.09	105	502443	66.03 ng/µl	91
17) 4-Methylphenol	6.05	108	314277	61.54 ng/µl	84
18) N-Nitroso-di-n-propylamine	6.09	70	295624	65.61 ng/µl #	67
21) Nitrobenzene	6.29	77	462019	72.15 ng/µl	91
22) Isophorone	6.54	82	783126	69.23 ng/µl	88
23) 2-Nitrophenol	6.66	139	164703	67.98 ng/µl #	54
24) 2,4-Dimethylphenol	6.66	107	264259	61.33 ng/µl	90
25) bis(2-Chloroethoxy) methan	6.78	93	394922	68.53 ng/µl	92
26) 2,4-Dichlorophenol	6.95	162	264193	69.38 ng/µl	91
27) 1,2,4-Trichlorobenzene	7.07	180	314210	72.11 ng/µl	95
28) Naphthalene	7.17	128	845094	68.72 ng/µl	92
29) 4-Chloroaniline	7.23	127	374257	72.00 ng/µl	89
30) Hexachlorobutadiene	7.38	225	227268	78.73 ng/µl	87
31) Caprolactam	7.67	113	113360m	73.16 ng/µl	
32) 4-Chloro-3-methylphenol	7.90	107	347542	73.29 ng/µl	81
33) 2-Methylnaphthalene	8.16	142	555028	67.66 ng/µl	89
35) Hexachlorocyclopentadiene	8.51	237	292021	73.91 ng/µl	89
36) 2,4,6-Trichlorophenol	8.65	196	232843	66.64 ng/µl	89
37) 2,4,5-Trichlorophenol	8.71	196	256689	68.69 ng/µl	98
39) 1,1'-Biphenyl	8.93	154	806583	66.11 ng/µl	100
40) 2-Chloronaphthalene	8.96	162	615623	64.58 ng/µl	96
41) 2-Nitroaniline	9.17	65	267005	65.46 ng/µl	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08171.D Vial: 5
Acq On : 29 Jun 2011 11:01 am Operator: MIZ
Sample : BNA MIX 1&2 120 Inst : DEL6
Misc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 11:29:38 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 10:56:19 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

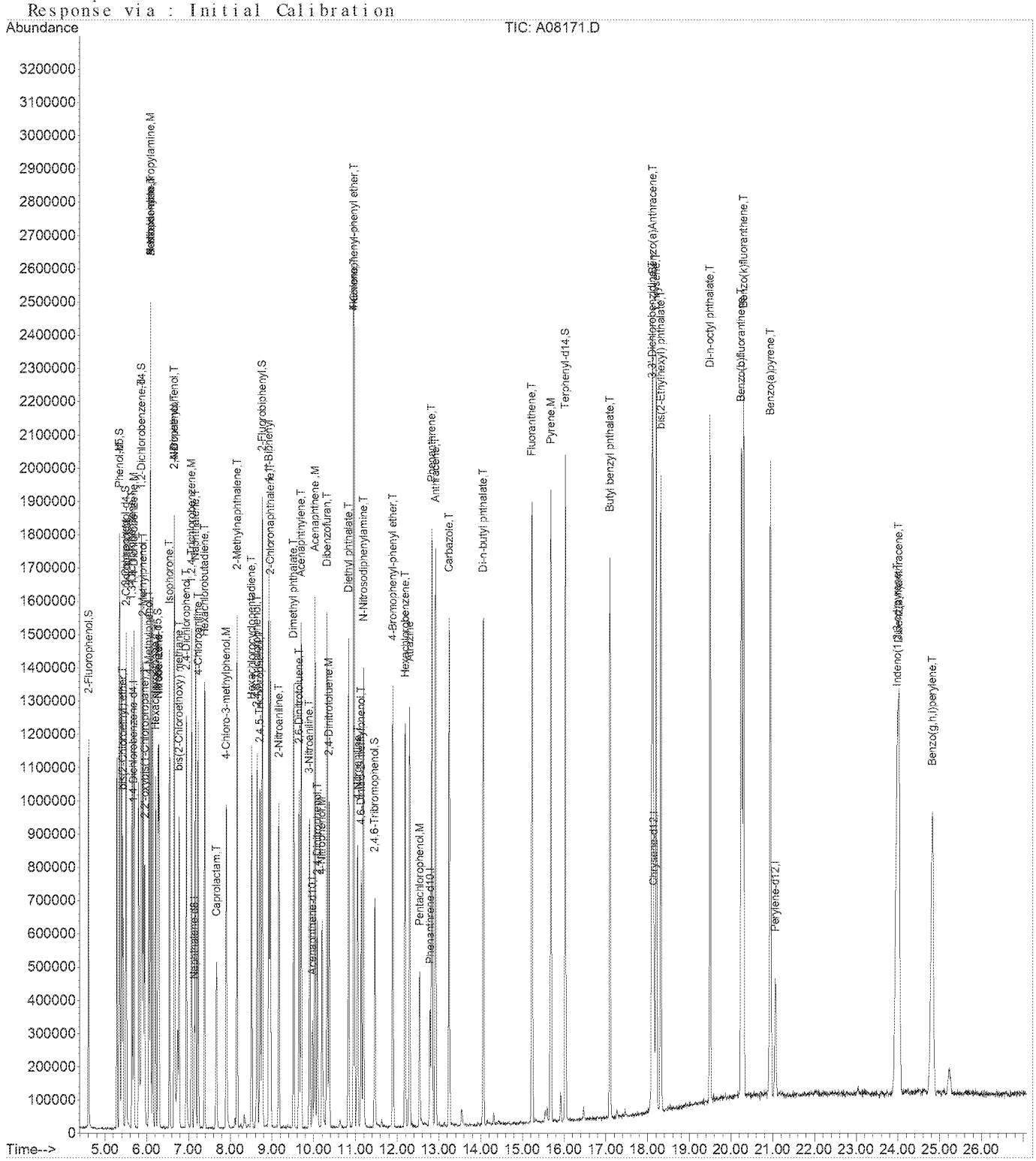
Compound	R.T.	Qion	Response	Conc Unit	Qvalue
42) Acenaphthylene	9.70	152	970318	65.85 ng/µl	98
43) Dimethyl phthalate	9.52	163	755242	68.31 ng/µl	82
44) 2,6-Dinitrotoluene	9.65	165	174562m	82.47 ng/µl	
45) 3-Nitroaniline	9.90	138	176156	65.94 ng/µl	81
46) Acenaphthene	10.03	153	587000	63.54 ng/µl	96
47) 2,4-Dinitrophenol	10.09	184	126457	80.40 ng/µl	93
48) Dibenzofuran	10.32	168	897436	66.88 ng/µl	95
49) 4-Nitrophenol	10.20	109	199629	83.97 ng/µl #	34
50) 2,4-Dinitrotoluene	10.37	165	247989	71.23 ng/µl	78
51) Fluorene	10.97	166	759325	68.01 ng/µl	96
52) Diethyl phthalate	10.83	149	747576	69.01 ng/µl	96
53) 4-Chlorophenyl-phenyl ethe	10.96	204	419731	69.90 ng/µl	86
54) 4-Nitroaniline	11.05	138	174429	67.50 ng/µl	89
57) 4,6-Dinitro-2-methylphenol	11.14	198	180265	71.74 ng/µl	93
58) N-Nitrosodiphenylamine	11.19	169	559584	65.05 ng/µl	96
59) 4-Bromophenyl-phenyl ether	11.89	248	243241	65.25 ng/µl	87
60) Atrazine	12.30	200	280477	70.43 ng/µl	97
61) Hexachlorobenzene	12.19	284	228363	63.65 ng/µl	96
62) Pentachlorophenol	12.54	266	88720	67.08 ng/µl	84
63) Phenanthrene	12.83	178	1137727	64.50 ng/µl	99
64) Anthracene	12.92	178	1157002	64.54 ng/µl	97
65) Carbazole	13.25	167	1012574	63.53 ng/µl	97
66) Di-n-butyl phthalate	14.07	149	1249913	64.77 ng/µl	95
67) Fluoranthene	15.23	202	1346767	66.24 ng/µl	88
69) Pyrene	15.68	202	1443352	62.91 ng/µl	84
71) Butyl benzyl phthalate	17.10	149	602898	59.72 ng/µl	88
72) Benzo(a)Anthracene	18.12	228	1554653	66.61 ng/µl	96
73) 3,3'-Dichlorobenzidine	18.10	252	446586	60.34 ng/µl	92
74) Chrysene	18.21	228	1469282	67.39 ng/µl	96
75) bis(2-Ethylhexyl) phthalat	18.32	149	872368	60.78 ng/µl	97
77) Di-n-octyl phthalate	19.50	149	1645548	55.00 ng/µl	100
78) Benzo(b)fluoranthene	20.25	252	1706528	71.57 ng/µl	97
79) Benzo(k)fluoranthene	20.30	252	1692109	71.46 ng/µl	98
80) Benzo(a)pyrene	20.95	252	1694752	72.30 ng/µl	84
81) Indeno(1,2,3-cd)pyrene	23.98	276	1676071	68.69 ng/µl	86
82) Dibenz(a,h)anthracene	24.02	278	1381023	68.51 ng/µl	98
83) Benzo(g,h,i)perylene	24.82	276	1395210	68.59 ng/µl	97

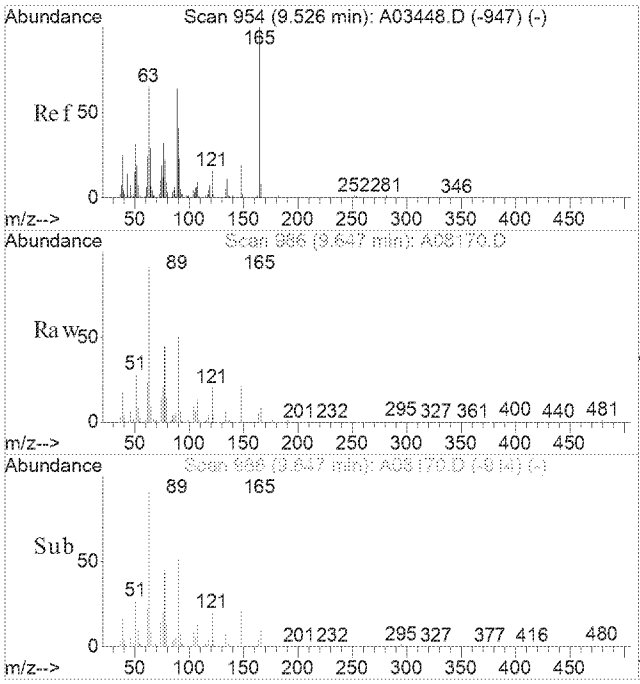
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08171.D Vial: 5
Acq On : 29 Jun 2011 11:01 am Operator: MIZ
Sample : BNA MIX 1&2 120 Inst : DEL6
Msc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 11:30 2011 Quant Results File: I60629.RES

Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration

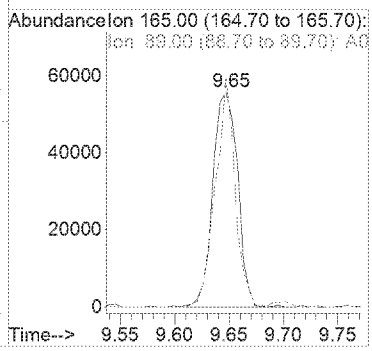




#44
2, 6-Dinitrotoluene
Concen: 44.54 ng/µl m
RT: 9.65 min Scan# 986
Delta R.T. 0.13 min
Lab File: A08170.D
Acq: 29 Jun 2011 10:24 am

Tgt Ion: 165 Resp: 88508

Ion	Ratio	Lower	Upper
165	100		
89	106.8	37.5	77.5#



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08170.D Vial: 4
Acq On : 29 Jun 2011 10:24 am Operator: MIZ
Sample : BNA MX 1&2 080 Inst : DEL6
Misc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 10:55:00 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 10:54:57 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	33109	20.00 ng/µl	0.00
19) Naphthalene-d8	7.14	136	136162	20.00 ng/µl	0.00
34) Acenaphthene-d10	9.97	164	88059	20.00 ng/µl	0.00
56) Phenanthrene-d10	12.78	188	173154	20.00 ng/µl	0.00
68) Chrysene-d12	18.15	240	191125	20.00 ng/µl	0.00
76) Perylene-d12	21.06	264	167264	20.00 ng/µl	0.00
System Monitoring Compounds					
2) 2-Fluorophenol	4.60	112	146810	42.69 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 56.92%		
4) Phenol-d5	5.34	99	220833	45.26 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 60.35%		
6) 2-Chlorophenol-d4	5.50	132	145932	46.45 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 61.93%		
11) 1,2-Dichlorobenzene-d4	5.87	152	117331	51.88 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 103.76%		
20) Nitrobenzene-d5	6.27	82	248412	47.19 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 94.38%		
38) 2-Fluorobiphenyl	8.77	172	447660	48.89 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 97.78%		
55) 2,4,6-Tribromophenol	11.46	330	42116	37.32 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 49.76%		
70) Terphenyl-d14	16.03	244	455917	47.21 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 94.42%		
Target Compounds					Qvalue
3) Benzaldehyde	6.09	105	257136	48.07 ng/µl	91
5) Phenol	5.35	94	222479	45.65 ng/µl	86
7) 2-Chlorophenol	5.51	128	142491	46.31 ng/µl	97
8) bis(2-Chloroethyl) ether	5.43	93	174128	50.45 ng/µl #	78
9) 1,3-Dichlorobenzene	5.65	146	163656	46.74 ng/µl	93
10) 1,4-Dichlorobenzene	5.69	146	171237	46.46 ng/µl	99
12) 1,2-Dichlorobenzene	5.88	146	162033	49.52 ng/µl	99
13) 2-Methylphenol	5.91	108	171794	49.84 ng/µl	98
14) 2,2'-oxybis(1-Chloropropan	5.95	45	101121	24.38 ng/µl #	44
15) Hexachloroethane	6.21	117	71124	48.04 ng/µl	69
16) Acetophenone	6.09	105	257136	48.07 ng/µl	90
17) 4-Methylphenol	6.05	108	169125	46.48 ng/µl	87
18) N-Nitroso-di-n-propylamine	6.09	70	149447	46.45 ng/µl #	74
21) Nitrobenzene	6.29	77	234663	46.42 ng/µl	88
22) Isophorone	6.54	82	399643	44.37 ng/µl	88
23) 2-Nitrophenol	6.66	139	83120	42.94 ng/µl #	64
24) 2,4-Dimethylphenol	6.66	107	149517	42.61 ng/µl	94
25) bis(2-Chloroethoxy) methan	6.78	93	210792	45.96 ng/µl	89
26) 2,4-Dichlorophenol	6.95	162	138639	46.33 ng/µl	93
27) 1,2,4-Trichlorobenzene	7.07	180	169898	51.06 ng/µl	97
28) Naphthalene	7.17	128	461807	47.84 ng/µl	92
29) 4-Chloroaniline	7.23	127	191543	46.21 ng/µl	90
30) Hexachlorobutadiene	7.38	225	111040	51.33 ng/µl	97
31) Caprolactam	7.65	113	57550	46.23 ng/µl #	73
32) 4-Chloro-3-methylphenol	7.90	107	179779	48.51 ng/µl	86
33) 2-Methylnaphthalene	8.16	142	301774	46.68 ng/µl	87
35) Hexachlorocyclopentadiene	8.51	237	142256	50.13 ng/µl	94
36) 2,4,6-Trichlorophenol	8.65	196	123165	48.07 ng/µl #	84
37) 2,4,5-Trichlorophenol	8.71	196	133000	48.56 ng/µl	88
39) 1,1'-Biphenyl	8.93	154	411476	44.79 ng/µl	100
40) 2-Chloronaphthalene	8.96	162	321609	44.78 ng/µl	94
41) 2-Nitroaniline	9.16	65	142702	45.97 ng/µl	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08170.D Vial: 4
Acq On : 29 Jun 2011 10:24 am Operator: MIZ
Sample : BNA MIX 1&2 080 Inst : DEL6
Misc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 10:55:00 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 10:54:57 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

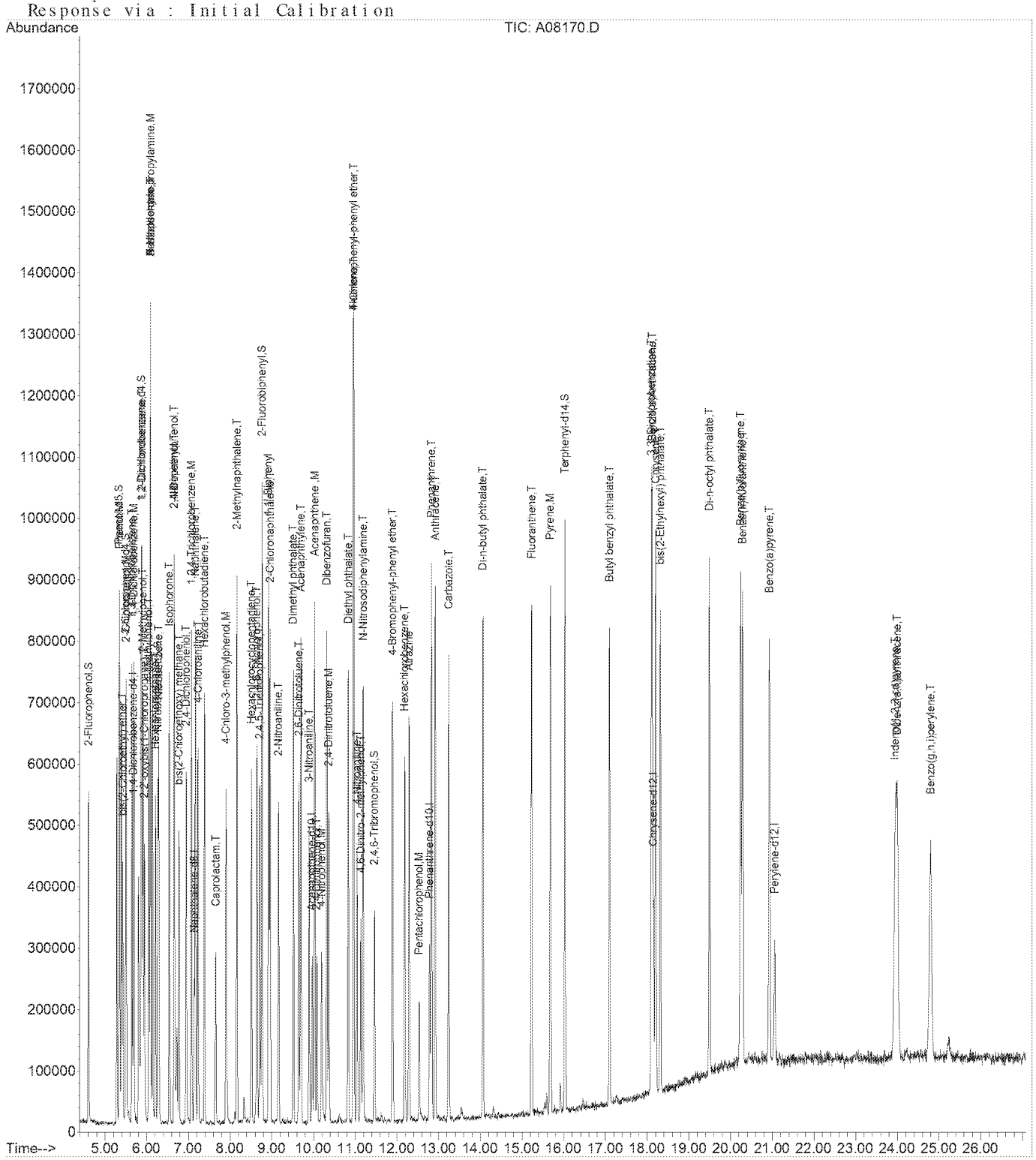
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
42) Acenaphthylene	9.70	152	509873	46.01 ng/µl	96
43) Dimethyl phthalate	9.52	163	379662	45.74 ng/µl	82
44) 2,6-Dinitrotoluene	9.65	165	88508m	44.54 ng/µl	
45) 3-Nitroaniline	9.89	138	90630	44.13 ng/µl #	79
46) Acenaphthene	10.03	153	308638	44.26 ng/µl	95
47) 2,4-Dinitrophenol	10.08	184	53219	44.61 ng/µl	90
48) Dibenzofuran	10.32	168	465974	46.24 ng/µl	90
49) 4-Nitrophenol	10.19	109	83517	48.23 ng/µl #	43
50) 2,4-Dinitrotoluene	10.37	165	122095	46.97 ng/µl	87
51) Fluorene	10.97	166	381961	45.47 ng/µl	81
52) Diethyl phthalate	10.83	149	383013	47.64 ng/µl	95
53) 4-Chlorophenyl-phenyl ethe	10.96	204	224039	51.78 ng/µl	86
54) 4-Nitroaniline	11.04	138	84297	42.06 ng/µl	91
57) 4,6-Dinitro-2-methylphenol	11.13	198	81022	46.35 ng/µl	90
58) N-Nitrosodiphenylamine	11.19	169	285949	48.23 ng/µl	98
59) 4-Bromophenyl-phenyl ether	11.89	248	128865	50.90 ng/µl	82
60) Atrazine	12.29	200	125223	45.35 ng/µl	94
61) Hexachlorobenzene	12.19	284	112051	44.66 ng/µl	83
62) Pentachlorophenol	12.53	266	31434	29.06 ng/µl	80
63) Phenanthrene	12.83	178	552612	44.43 ng/µl	95
64) Anthracene	12.92	178	571827	45.49 ng/µl	96
65) Carbazole	13.24	167	466440	40.56 ng/µl	94
66) Di-n-butyl phthalate	14.07	149	608309	44.60 ng/µl	93
67) Fluoranthene	15.23	202	592155	40.95 ng/µl	87
69) Pyrene	15.68	202	624404	45.97 ng/µl	83
71) Butyl benzyl phthalate	17.09	149	251722	40.49 ng/µl	90
72) Benzo(a)Anthracene	18.12	228	614023	43.89 ng/µl	96
73) 3,3'-Dichlorobenzidine	18.10	252	190048	43.14 ng/µl	93
74) Chrysene	18.21	228	583037	44.60 ng/µl	96
75) bis(2-Ethylhexyl) phthalat	18.32	149	353323	39.60 ng/µl	95
77) Di-n-octyl phthalate	19.49	149	636233	36.79 ng/µl	99
78) Benzo(b)fluoranthene	20.24	252	628521	49.21 ng/µl	98
79) Benzo(k)fluoranthene	20.29	252	591141	46.16 ng/µl	95
80) Benzo(a)pyrene	20.93	252	589476	47.00 ng/µl	85
81) Indeno(1,2,3-cd)pyrene	23.95	276	622857	47.98 ng/µl	82
82) Dibenz(a,h)anthracene	24.00	278	517707	48.19 ng/µl	88
83) Benzo(g,h,i)perylene	24.80	276	516820	47.65 ng/µl	93

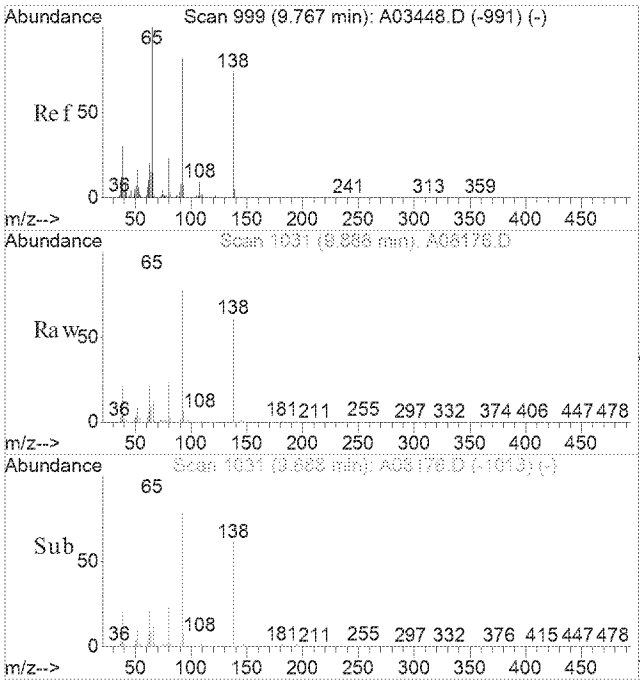
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08170.D Vial: 4
Acq On : 29 Jun 2011 10:24 am Operator: MIZ
Sample : BNA MIX 1&2 080 Inst : DEL6
Msc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 12:41 2011 Quant Results File: I60629.RES

Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration

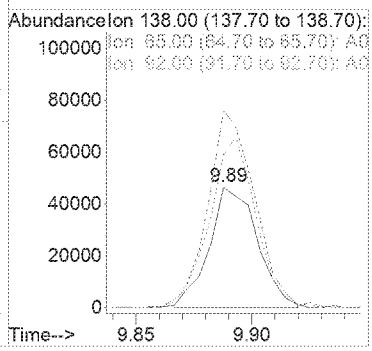




#45
3-Nitroaniline
Concen: 30.99 ng/µl m
RT: 9.89 min Scan# 1031
Delta R.T. -0.01 min
Lab File: A08176.D
Acq: 29 Jun 2011 1:28 pm

Tgt Ion: 138 Resp: 67642

Ion	Ratio	Lower	Upper
138	100		
65	163.4	128.1	198.1
92	126.9	80.4	150.4



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08176.D Vial: 3
Acq On : 29 Jun 2011 1:28 pm Operator: MIZ
Sample : BNA MX 1&2 050 Inst : DEL6
Misc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 13:57:36 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.67	152	36771	20.00 ng/µl	0.00
19) Naphthalene-d8	7.14	136	135925	20.00 ng/µl	0.00
34) Acenaphthene-d10	9.96	164	82458	20.00 ng/µl	0.00
56) Phenanthrene-d10	12.78	188	177954	20.00 ng/µl	0.00
68) Chrysene-d12	18.14	240	207611	20.00 ng/µl	-0.01
76) Perylene-d12	21.06	264	184785	20.00 ng/µl	0.00
System Monitoring Compounds					
2) 2-Fluorophenol	4.60	112	112374	25.37 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 33.83%		
4) Phenol-d5	5.34	99	158624	25.07 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 33.43%		
6) 2-Chlorophenol-d4	5.50	132	109300	26.28 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 35.04%		
11) 1,2-Dichlorobenzene-d4	5.87	152	78089	24.64 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 49.28%		
20) Nitrobenzene-d5	6.27	82	174545	26.02 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 52.04%		
38) 2-Fluorobiphenyl	8.77	172	297364	28.00 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 56.00%		
55) 2,4,6-Tribromophenol	11.46	330	28473	24.68 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 32.91%		
70) Terphenyl-d14	16.02	244	348216	26.77 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 53.54%		
Target Compounds					Qvalue
3) Benzaldehyde	6.08	105	189385	25.48 ng/µl	96
5) Phenol	5.35	94	160055	25.27 ng/µl	82
7) 2-Chlorophenol	5.51	128	96550	24.09 ng/µl	93
8) bis(2-Chloroethyl) ether	5.43	93	112594	24.65 ng/µl #	74
9) 1,3-Dichlorobenzene	5.65	146	123055	25.80 ng/µl	88
10) 1,4-Dichlorobenzene	5.69	146	120738	24.14 ng/µl	96
12) 1,2-Dichlorobenzene	5.88	146	114294	25.18 ng/µl	90
13) 2-Methylphenol	5.91	108	121185	25.21 ng/µl	92
14) 2,2'-oxybis(1-Chloropropan	5.95	45	73899	25.70 ng/µl #	29
15) Hexachloroethane	6.21	117	52269	25.66 ng/µl #	71
16) Acetophenone	6.08	105	189385	25.48 ng/µl #	94
17) 4-Methylphenol	6.05	108	119298	25.29 ng/µl	86
18) N-Nitroso-di-n-propylamine	6.08	70	108953	25.83 ng/µl #	67
21) Nitrobenzene	6.29	77	169082	26.27 ng/µl	87
22) Isophorone	6.54	82	285510	25.40 ng/µl	85
23) 2-Nitrophenol	6.66	139	59643	24.43 ng/µl #	55
24) 2,4-Dimethylphenol	6.66	107	84654	21.78 ng/µl	86
25) bis(2-Chloroethoxy) methan	6.77	93	147411	26.19 ng/µl	94
26) 2,4-Dichlorophenol	6.94	162	90820	23.98 ng/µl	95
27) 1,2,4-Trichlorobenzene	7.07	180	117911	26.04 ng/µl	94
28) Naphthalene	7.16	128	300883	24.92 ng/µl	94
29) 4-Chloroaniline	7.23	127	131970	25.69 ng/µl	91
30) Hexachlorobutadiene	7.38	225	81900	26.27 ng/µl	90
31) Caprolactam	7.65	113	40656	26.29 ng/µl #	69
32) 4-Chloro-3-methylphenol	7.90	107	120865	25.31 ng/µl	90
33) 2-Methylnaphthalene	8.16	142	208631	26.00 ng/µl	89
35) Hexachlorocyclopentadiene	8.51	237	102531	28.45 ng/µl	95
36) 2,4,6-Trichlorophenol	8.64	196	86269	28.66 ng/µl	87
37) 2,4,5-Trichlorophenol	8.71	196	83369	25.65 ng/µl	97
39) 1,1'-Biphenyl	8.92	154	282433	27.42 ng/µl	100
40) 2-Chloronaphthalene	8.95	162	224914	28.56 ng/µl	94
41) 2-Nitroaniline	9.16	65	93902	28.15 ng/µl	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08176.D Vial: 3
Acq On : 29 Jun 2011 1:28 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 13:57:36 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

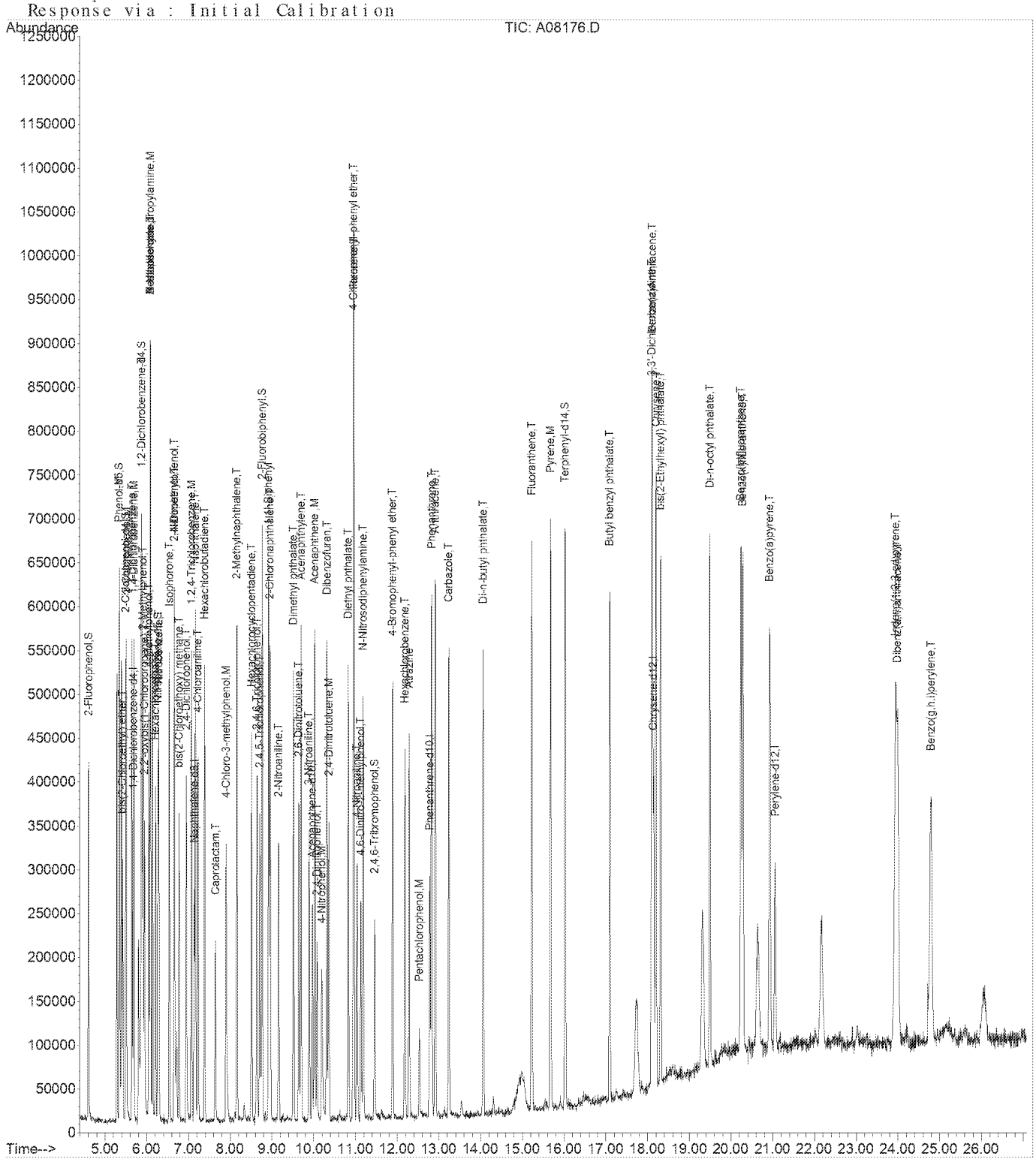
Compound	R.T.	Qion	Response	Conc Unit	Qvalue
42) Acenaphthylene	9.70	152	339606	27.09 ng/µl	93
43) Dimethyl phthalate	9.51	163	260532	27.44 ng/µl	77
44) 2,6-Dinitrotoluene	9.64	165	63299	28.29 ng/µl	82
45) 3-Nitroaniline	9.89	138	67642m	30.99 ng/µl	
46) Acenaphthene	10.03	153	206560	26.94 ng/µl	92
47) 2,4-Dinitrophenol	10.08	184	37902	26.84 ng/µl	96
48) Dibenzofuran	10.31	168	312562	27.62 ng/µl	97
49) 4-Nitrophenol	10.19	109	62007	28.08 ng/µl #	36
50) 2,4-Dinitrotoluene	10.36	165	85784	28.92 ng/µl	76
51) Fluorene	10.97	166	265876	27.59 ng/µl	94
52) Diethyl phthalate	10.83	149	264956	27.93 ng/µl	94
53) 4-Chlorophenyl-phenyl ethe	10.96	204	152457	28.56 ng/µl #	81
54) 4-Nitroaniline	11.04	138	57307	27.41 ng/µl	87
57) 4,6-Dinitro-2-methylphenol	11.13	198	53407	24.45 ng/µl	89
58) N-Nitrosodiphenylamine	11.19	169	187747	25.62 ng/µl	88
59) 4-Bromophenyl-phenyl ether	11.89	248	84503	26.00 ng/µl #	78
60) Atrazine	12.29	200	91852	26.20 ng/µl	100
61) Hexachlorobenzene	12.18	284	75822	25.30 ng/µl	92
62) Pentachlorophenol	12.53	266	16764	19.85 ng/µl	96
63) Phenanthrene	12.83	178	389601	26.38 ng/µl	98
64) Anthracene	12.91	178	394208	26.41 ng/µl	97
65) Carbazole	13.24	167	343198	26.81 ng/µl	98
66) Di-n-butyl phthalate	14.06	149	425381	26.30 ng/µl	95
67) Fluoranthene	15.22	202	440928	26.25 ng/µl	87
69) Pyrene	15.67	202	478948	26.35 ng/µl	82
71) Butyl benzyl phthalate	17.09	149	195797	26.77 ng/µl	87
72) Benzo(a)Anthracene	18.11	228	465749	26.21 ng/µl	94
73) 3,3'-Dichlorobenzidine	18.09	252	169630	30.98 ng/µl	94
74) Chrysene	18.20	228	448204	26.85 ng/µl	96
75) bis(2-Ethylhexyl) phthalat	18.31	149	273183	26.59 ng/µl	98
77) Di-n-octyl phthalate	19.49	149	470482	26.18 ng/µl	99
78) Benzo(b)fluoranthene	20.24	252	493005	28.01 ng/µl	98
79) Benzo(k)fluoranthene	20.28	252	410384	23.36 ng/µl	96
80) Benzo(a)pyrene	20.93	252	437811	25.22 ng/µl	85
81) Indeno(1,2,3-cd)pyrene	23.94	276	489468	25.72 ng/µl	81
82) Dibenz(a,h)anthracene	23.99	278	402222	25.67 ng/µl	89
83) Benzo(g,h,i)perylene	24.80	276	434372	26.96 ng/µl	94

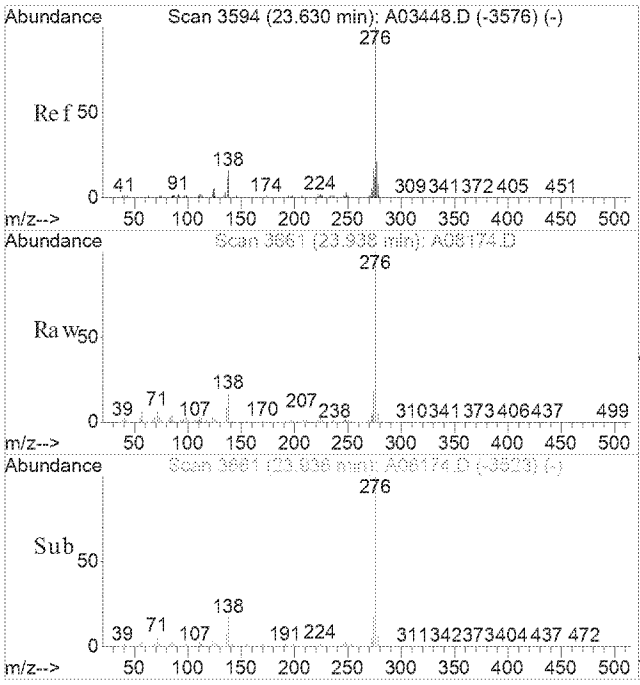
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM.1\DATA\MS60629L.MIZ\A08176.D Vial: 3
Acq On : 29 Jun 2011 1:28 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 13:58 2011 Quant Results File: I60629.RES

Method : C:\MSDCHEM.1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration

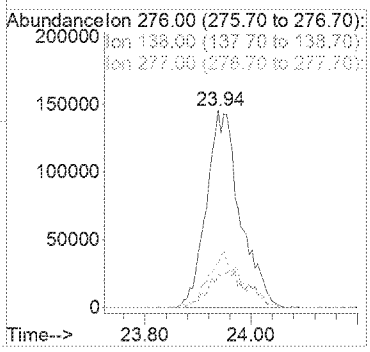




#81
Indeno(1,2,3-cd)pyrene
Concen: 28.40 ng/µl m
RT: 23.94 min Scan# 3661
Delta R.T. -0.01 min
Lab File: A08174.D
Acq: 29 Jun 2011 12:33 pm

Tgt Ion: 276 Resp: 643363

Ion	Ratio	Lower	Upper
276	100		
138	16.9	8.7	48.7
277	22.5	1.4	41.4



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08174.D Vial: 3
Acq On : 29 Jun 2011 12:33 pm Operator: MIZ
Sample : BNA MX 1&2 050 Inst : DEL6
Misc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 13:09:18 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 12:50:42 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.68	152	43085	20.00 ng/µl	0.00
19) Naphthalene-d8	7.14	136	158151	20.00 ng/µl	0.00
34) Acenaphthene-d10	9.97	164	107228	20.00 ng/µl	0.00
56) Phenanthrene-d10	12.78	188	220388	20.00 ng/µl	0.00
68) Chrysene-d12	18.15	240	254915	20.00 ng/µl	0.00
76) Perylene-d12	21.05	264	228101	20.00 ng/µl	0.00
System Monitoring Compounds					
2) 2-Fluorophenol	4.60	112	135133	26.03 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 34.71%		
4) Phenol-d5	5.34	99	182047	24.55 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 32.73%		
6) 2-Chlorophenol-d4	5.50	132	125806	25.81 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 34.41%		
11) 1,2-Dichlorobenzene-d4	5.87	152	91371	24.61 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 49.22%		
20) Nitrobenzene-d5	6.27	82	200346	25.67 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 51.34%		
38) 2-Fluorobiphenyl	8.77	172	351210	25.44 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 50.88%		
55) 2,4,6-Tribromophenol	11.46	330	33565	22.37 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 29.83%		
70) Terphenyl-d14	16.03	244	412683	26.64 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 53.28%		
Target Compounds					Qvalue
3) Benzaldehyde	6.09	105	219128	25.16 ng/µl	95
5) Phenol	5.35	94	193651	26.09 ng/µl	88
7) 2-Chlorophenol	5.51	128	125026	26.63 ng/µl	93
8) bis(2-Chloroethyl) ether	5.43	93	137288	25.65 ng/µl #	80
9) 1,3-Dichlorobenzene	5.65	146	145087	25.97 ng/µl	100
10) 1,4-Dichlorobenzene	5.69	146	149550	25.51 ng/µl	98
12) 1,2-Dichlorobenzene	5.88	146	138076	25.96 ng/µl	95
13) 2-Methylphenol	5.91	108	152355	27.05 ng/µl	96
14) 2,2'-oxybis(1-Chloropropan	5.95	45	82344	24.44 ng/µl #	27
15) Hexachloroethane	6.21	117	62620	26.23 ng/µl	68
16) Acetophenone	6.09	105	219128	25.16 ng/µl #	93
17) 4-Methylphenol	6.05	108	134853	24.40 ng/µl	85
18) N-Nitroso-di-n-propylamine	6.09	70	126872	25.67 ng/µl #	68
21) Nitrobenzene	6.29	77	197191	26.33 ng/µl	87
22) Isophorone	6.54	82	342085	26.16 ng/µl	84
23) 2-Nitrophenol	6.66	139	75339	26.52 ng/µl #	68
24) 2,4-Dimethylphenol	6.66	107	102716	22.71 ng/µl	94
25) bis(2-Chloroethoxy) methan	6.77	93	174828	26.70 ng/µl	96
26) 2,4-Dichlorophenol	6.95	162	115895	26.30 ng/µl	90
27) 1,2,4-Trichlorobenzene	7.07	180	144103	27.36 ng/µl	91
28) Naphthalene	7.17	128	366179	26.07 ng/µl	95
29) 4-Chloroaniline	7.23	127	155438	26.01 ng/µl	95
30) Hexachlorobutadiene	7.38	225	94271	25.99 ng/µl	90
31) Caprolactam	7.64	113	48879	27.17 ng/µl #	79
32) 4-Chloro-3-methylphenol	7.90	107	144366	25.99 ng/µl	97
33) 2-Methylnaphthalene	8.16	142	241006	25.82 ng/µl	93
35) Hexachlorocyclopentadiene	8.51	237	119796	25.56 ng/µl	93
36) 2,4,6-Trichlorophenol	8.64	196	100198	25.60 ng/µl	97
37) 2,4,5-Trichlorophenol	8.71	196	101448	24.00 ng/µl	85
39) 1,1'-Biphenyl	8.92	154	338685	25.29 ng/µl	100
40) 2-Chloronaphthalene	8.95	162	253990	24.80 ng/µl	97
41) 2-Nitroaniline	9.16	65	112603	25.95 ng/µl	77

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08174.D Vial: 3
Acq On : 29 Jun 2011 12:33 pm Operator: MIZ
Sample : BNA MX 1&2 050 Inst : DEL6
Misc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 13:09:18 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 12:50:42 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

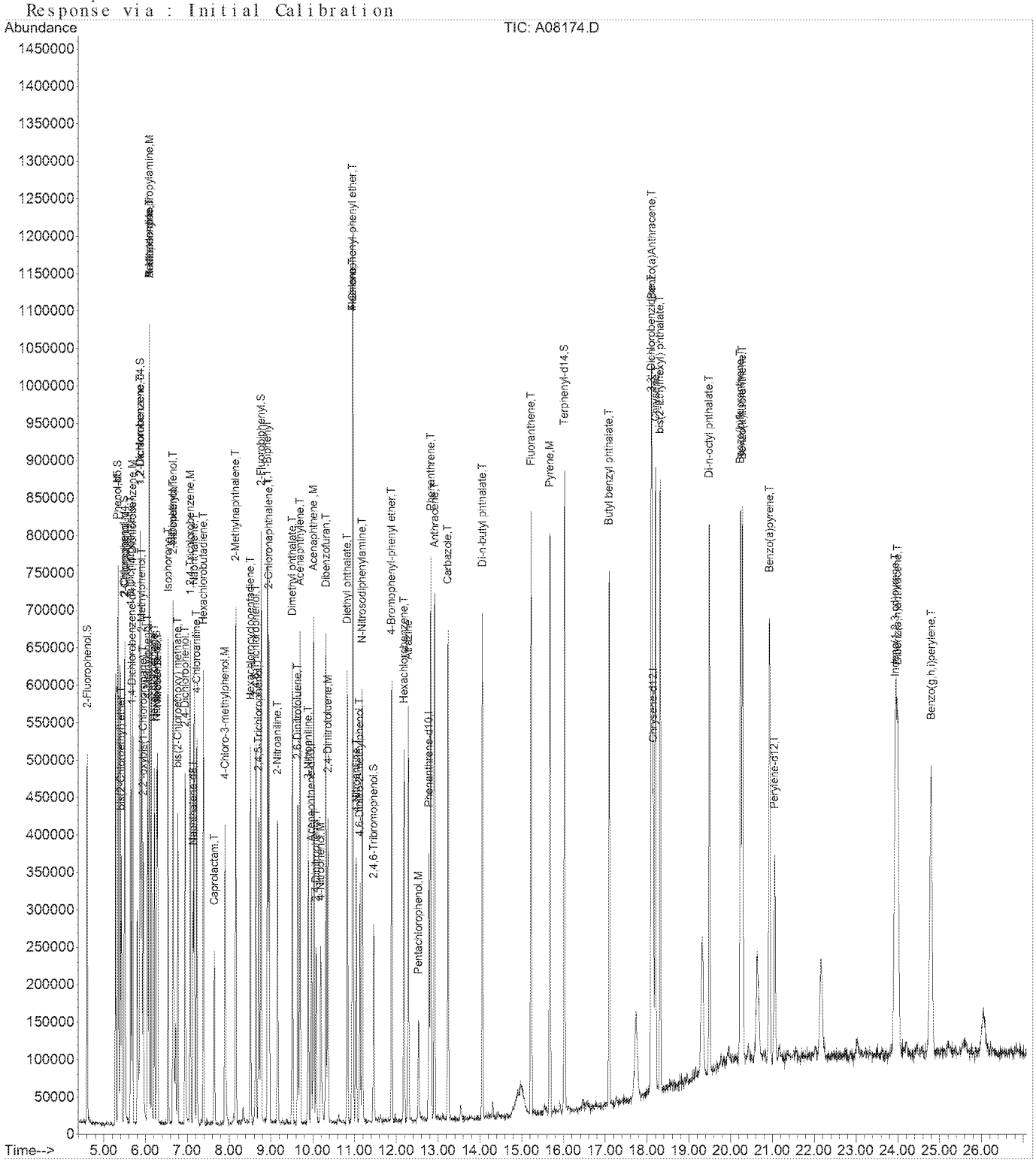
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
42) Acenaphthylene	9.70	152	420044	25.77 ng/µl	98
43) Dimethyl phthalate	9.51	163	313060	25.35 ng/µl	74
44) 2,6-Dinitrotoluene	9.65	165	73684	25.33 ng/µl	88
45) 3-Nitroaniline	9.89	138	75094	26.46 ng/µl	83
46) Acenaphthene	10.03	153	259387	26.01 ng/µl	98
47) 2,4-Dinitrophenol	10.08	184	48246	26.27 ng/µl	89
48) Dibenzofuran	10.31	168	378064	25.69 ng/µl	90
49) 4-Nitrophenol	10.19	109	76016	26.47 ng/µl #	35
50) 2,4-Dinitrotoluene	10.36	165	98487	25.53 ng/µl	82
51) Fluorene	10.96	166	328293	26.19 ng/µl	89
52) Diethyl phthalate	10.83	149	314460	25.49 ng/µl	97
53) 4-Chlorophenyl-phenyl ethe	10.96	204	178655	25.73 ng/µl	84
54) 4-Nitroaniline	11.04	138	70825	26.05 ng/µl	87
57) 4,6-Dinitro-2-methylphenol	11.13	198	75327	27.84 ng/µl	86
58) N-Nitrosodiphenylamine	11.19	169	234087	25.79 ng/µl	98
59) 4-Bromophenyl-phenyl ether	11.89	248	107471	26.70 ng/µl	85
60) Atrazine	12.29	200	114629	26.40 ng/µl	93
61) Hexachlorobenzene	12.18	284	98929	26.66 ng/µl	93
62) Pentachlorophenol	12.53	266	22231	21.25 ng/µl	91
63) Phenanthrene	12.83	178	471405	25.77 ng/µl	97
64) Anthracene	12.92	178	491602	26.59 ng/µl	96
65) Carbazole	13.24	167	411640	25.97 ng/µl	97
66) Di-n-butyl phthalate	14.06	149	522274	26.07 ng/µl	95
67) Fluoranthene	15.22	202	549701	26.43 ng/µl	86
69) Pyrene	15.67	202	591346	27.16 ng/µl	84
71) Butyl benzyl phthalate	17.09	149	232443	26.51 ng/µl	94
72) Benzo(a)Anthracene	18.11	228	564461	25.90 ng/µl	98
73) 3,3'-Dichlorobenzidine	18.09	252	201938	30.07 ng/µl	99
74) Chrysene	18.20	228	548680	26.94 ng/µl	94
75) bis(2-Ethylhexyl) phthalat	18.31	149	334372	27.28 ng/µl	99
77) Di-n-octyl phthalate	19.49	149	579819	26.25 ng/µl	99
78) Benzo(b)fluoranthene	20.24	252	554230	25.52 ng/µl	99
79) Benzo(k)fluoranthene	20.28	252	550697	25.69 ng/µl	95
80) Benzo(a)pyrene	20.92	252	544642	25.56 ng/µl	83
81) Indeno(1,2,3-cd)pyrene	23.94	276	643363m	28.40 ng/µl	
82) Dibenz(a,h)anthracene	24.00	278	535592	28.83 ng/µl	93
83) Benzo(g,h,i)perylene	24.80	276	580523	30.89 ng/µl	93

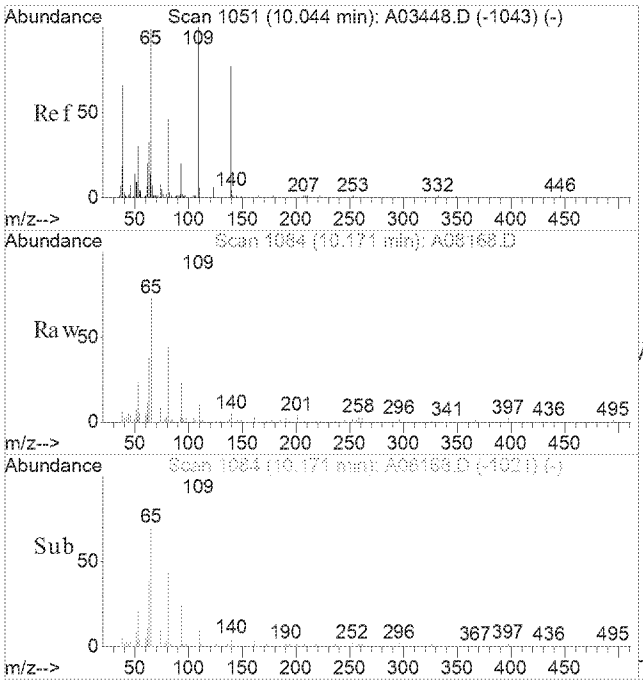
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08174.D Vial: 3
Acq On : 29 Jun 2011 12:33 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Msc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 13:10 2011 Quant Results File: I60629.RES

Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration

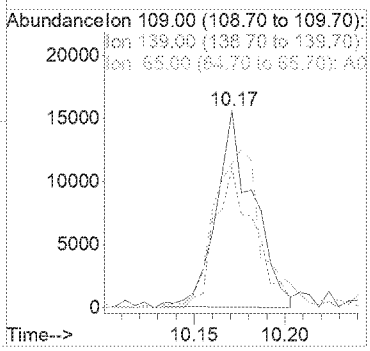




#49
4-Nitrophenol
Concen: 17.72 ng/µl m
RT: 10.17 min Scan# 1084
Delta R.T. 0.08 min
Lab File: A08168.D
Acq: 29 Jun 2011 8:39 am

Tgt Ion: 109 Resp: 22060

Ion	Ratio	Lower	Upper
109	100		
139	71.0	65.5	265.5
65	73.3	145.5	225.5#



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08168.D Vial: 2
Acq On : 29 Jun 2011 8:39 am Operator: MIZ
Sample : BNA MX 1&2 020 Inst : DEL6
Misc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 10:17:58 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 10:17:25 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	35869	20.00 ng/µl	0.00
19) Naphthalene-d8	7.12	136	139671	20.00 ng/µl	0.00
34) Acenaphthene-d10	9.95	164	85312	20.00 ng/µl	0.00
56) Phenanthrene-d10	12.76	188	182393	20.00 ng/µl	0.00
68) Chrysene-d12	18.13	240	211213	20.00 ng/µl	0.00
76) Perylene-d12	21.03	264	183444	20.00 ng/µl	0.00
System Monitoring Compounds					
2) 2-Fluorophenol	4.59	112	44823	13.88 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 18.51%#		
4) Phenol-d5	5.33	99	67211	15.42 ng/µl	0.03
Spiked Amount 75.000	Range 10 - 110		Recovery = 20.56%		
6) 2-Chlorophenol-d4	5.49	132	39663	13.75 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 18.33%#		
11) 1,2-Dichlorobenzene-d4	5.85	152	31897	16.24 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 32.48%		
20) Nitrobenzene-d5	6.25	82	70710	16.08 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 32.16%#		
38) 2-Fluorobiphenyl	8.74	172	112705	16.08 ng/µl	-0.04
Spiked Amount 50.000	Range 43 - 116		Recovery = 32.16%#		
55) 2,4,6-Tribromophenol	11.45	330	14495	15.06 ng/µl	0.08
Spiked Amount 75.000	Range 10 - 123		Recovery = 20.08%		
70) Terphenyl-d14	16.00	244	139797	14.79 ng/µl	-0.05
Spiked Amount 50.000	Range 33 - 141		Recovery = 29.58%#		
Target Compounds					Qvalue
3) Benzaldehyde	6.07	105	75640	16.15 ng/µl	97
5) Phenol	5.34	94	60393	13.45 ng/µl	84
7) 2-Chlorophenol	5.50	128	39034	13.58 ng/µl	93
8) bis(2-Chloroethyl) ether	5.41	93	41988	12.87 ng/µl	92
9) 1,3-Dichlorobenzene	5.63	146	49813	16.43 ng/µl	99
10) 1,4-Dichlorobenzene	5.68	146	53439	16.98 ng/µl	85
12) 1,2-Dichlorobenzene	5.87	146	44910	15.65 ng/µl	98
13) 2-Methylphenol	5.90	108	43936	13.97 ng/µl #	75
14) 2,2'-oxybis(1-Chloropropan	5.93	45	31476	5.77 ng/µl #	32
15) Hexachloroethane	6.20	117	20914	16.11 ng/µl #	47
16) Acetophenone	6.07	105	75640	16.15 ng/µl	96
17) 4-Methylphenol	6.04	108	51786	15.66 ng/µl #	77
18) N-Nitroso-di-n-propylamine	6.07	70	39301	13.19 ng/µl	80
21) Nitrobenzene	6.27	77	64702	15.12 ng/µl	91
22) Isophorone	6.52	82	118429	15.64 ng/µl	87
23) 2-Nitrophenol	6.64	139	28296	17.79 ng/µl #	63
24) 2,4-Dimethylphenol	6.64	107	50836	16.03 ng/µl	98
25) bis(2-Chloroethoxy) methan	6.76	93	57113	14.21 ng/µl	92
26) 2,4-Dichlorophenol	6.93	162	39527	16.39 ng/µl	87
27) 1,2,4-Trichlorobenzene	7.05	180	45030	17.41 ng/µl	97
28) Naphthalene	7.15	128	124168	15.15 ng/µl	84
29) 4-Chloroaniline	7.21	127	51678	14.03 ng/µl	85
30) Hexachlorobutadiene	7.37	225	33341	22.75 ng/µl	84
31) Caprolactam	7.62	113	14157	12.47 ng/µl #	58
32) 4-Chloro-3-methylphenol	7.88	107	48127	15.57 ng/µl	81
33) 2-Methylnaphthalene	8.15	142	84118	15.71 ng/µl	95
35) Hexachlorocyclopentadiene	8.49	237	40429	20.90 ng/µl	82
36) 2,4,6-Trichlorophenol	8.62	196	33489	17.67 ng/µl	88
37) 2,4,5-Trichlorophenol	8.69	196	38352	18.86 ng/µl #	83
39) 1,1'-Biphenyl	8.90	154	117204	16.14 ng/µl	100
40) 2-Chloronaphthalene	8.94	162	87959	15.47 ng/µl	93
41) 2-Nitroaniline	9.14	65	34306	12.85 ng/µl #	84

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08168.D Vial: 2
Acq On : 29 Jun 2011 8:39 am Operator: MIZ
Sample : BNA MIX 1&2 020 Inst : DEL6
Misc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 10:17:58 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 10:17:25 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

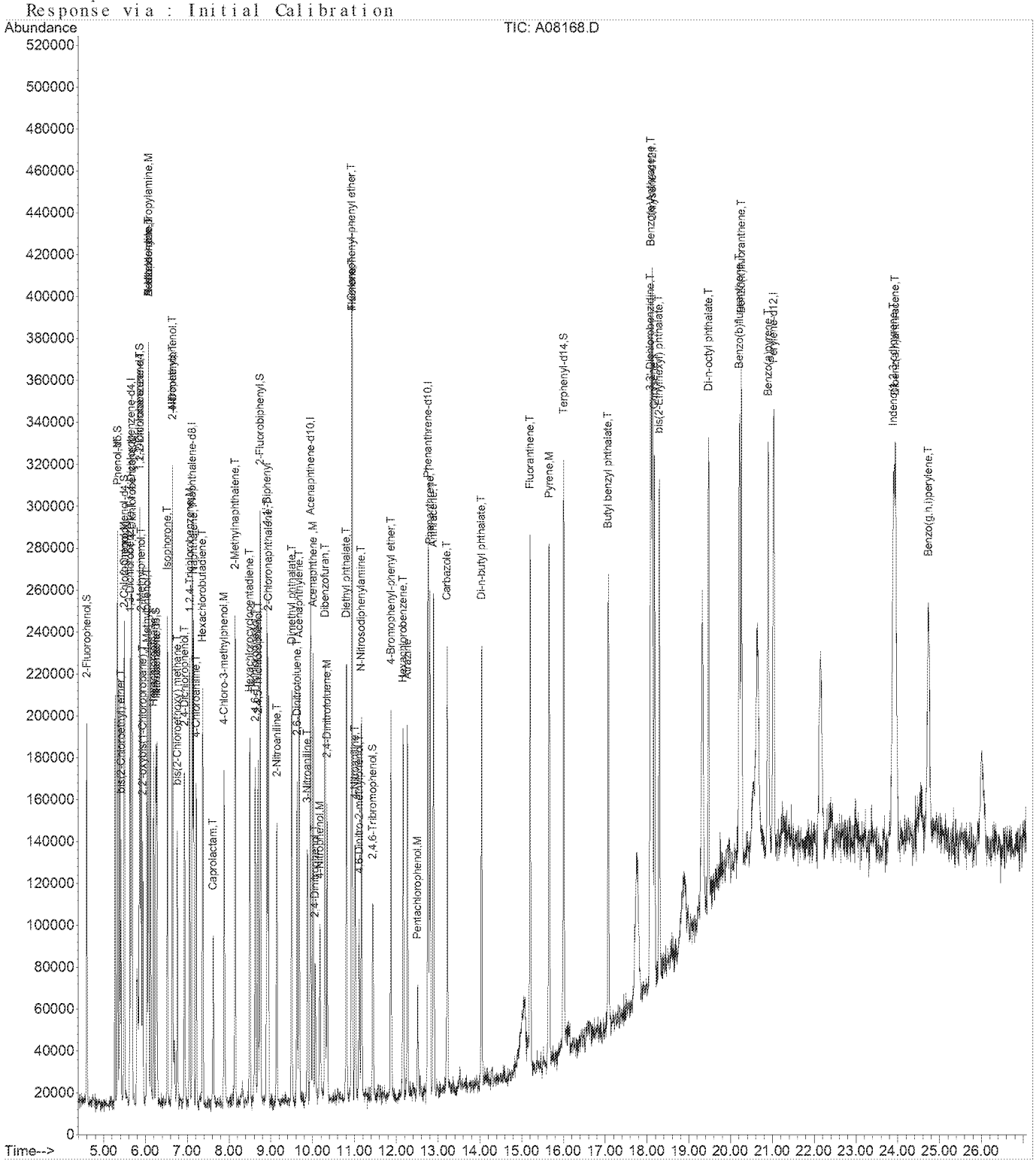
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
42) Acenaphthylene	9.67	152	134849	14.98 ng/µl	97
43) Dimethyl phthalate	9.50	163	100993	15.30 ng/µl	85
44) 2,6-Dinitrotoluene	9.63	165	25931	16.57 ng/µl	74
45) 3-Nitroaniline	9.88	138	23541	13.14 ng/µl #	74
46) Acenaphthene	10.01	153	87364	16.00 ng/µl	96
47) 2,4-Dinitrophenol	10.06	184	14318	14.61 ng/µl	83
48) Dibenzofuran	10.29	168	120843	14.68 ng/µl	96
49) 4-Nitrophenol	10.17	109	22060m	17.72 ng/µl	
50) 2,4-Dinitrotoluene	10.35	165	29621	14.10 ng/µl	84
51) Fluorene	10.95	166	106995	15.88 ng/µl	83
52) Diethyl phthalate	10.81	149	105144	16.57 ng/µl	95
53) 4-Chlorophenyl-phenyl ethe	10.93	204	58773	18.50 ng/µl	91
54) 4-Nitroaniline	11.01	138	23038	12.89 ng/µl	88
57) 4,6-Dinitro-2-methylphenol	11.11	198	20707	13.25 ng/µl	84
58) N-Nitrosodiphenylamine	11.17	169	75523	14.34 ng/µl	97
59) 4-Bromophenyl-phenyl ether	11.87	248	33399	15.49 ng/µl	88
60) Atrazine	12.26	200	36914	15.88 ng/µl	89
61) Hexachlorobenzene	12.16	284	31765	14.05 ng/µl #	70
62) Pentachlorophenol	12.51	266	7479	5.31 ng/µl #	72
63) Phenanthrene	12.80	178	158408	13.83 ng/µl	92
64) Anthracene	12.90	178	151943	13.12 ng/µl	95
65) Carbazole	13.22	167	140376	12.74 ng/µl	95
66) Di-n-butyl phthalate	14.04	149	168510	13.35 ng/µl	93
67) Fluoranthene	15.20	202	179614	13.91 ng/µl	90
69) Pyrene	15.66	202	191392	14.63 ng/µl	80
71) Butyl benzyl phthalate	17.07	149	75657	11.68 ng/µl	96
72) Benzo(a)Anthracene	18.09	228	179240	13.23 ng/µl	95
73) 3,3'-Dichlorobenzidine	18.07	252	62134	15.24 ng/µl	89
74) Chrysene	18.18	228	162585	12.69 ng/µl	90
75) bis(2-Ethylhexyl) phthalat	18.30	149	98189	10.00 ng/µl	98
77) Di-n-octyl phthalate	19.47	149	186302	10.16 ng/µl	97
78) Benzo(b)fluoranthene	20.21	252	168318	14.04 ng/µl	99
79) Benzo(k)fluoranthene	20.26	252	181351	15.57 ng/µl	94
80) Benzo(a)pyrene	20.90	252	172340	15.21 ng/µl	86
81) Indeno(1,2,3-cd)pyrene	23.89	276	189567	16.25 ng/µl	88
82) Dibenz(a,h)anthracene	23.95	278	155629	15.98 ng/µl	80
83) Benzo(g,h,i)perylene	24.73	276	155718	15.77 ng/µl	100

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08168.D Vial: 2
Acq On : 29 Jun 2011 8:39 am Operator: MIZ
Sample : BNA MIX 1&2 020 Inst : DEL6
Msc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 10:18 2011 Quant Results File: I60629.RES

Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08176.D Vial: 3
Acq On : 29 Jun 2011 1:28 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P

Method : C:\MSDCHEM\1\METHODS\I60629.M(RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	0.00
2	S	2-Fluorophenol	2.409	2.445	-1.5	83	0.00
3	T	Benzaldehyde	4.043	4.120	-1.9	86	0.00
4	S	Phenol-d5	3.442	3.451	-0.3	87	0.00
5	M	Phenol	3.445	3.482	-1.1	83	0.00
6	S	2-Chlorophenol-d4	2.262	2.378	-5.1	87	0.00
7	M	2-Chlorophenol	2.180	2.101	3.6	77	0.00
8	T	bis(2-Chloroethyl) ether	2.484	2.450	1.4	82	0.00
9	T	1,3-Dichlorobenzene	2.594	2.677	-3.2	85	0.00
10	M	1,4-Dichlorobenzene	2.721	2.627	3.5	81	0.00
11	S	1,2-Dichlorobenzene-d4	1.724	1.699	1.5	85	0.00
12	T	1,2-Dichlorobenzene	2.469	2.487	-0.7	83	0.00
13	T	2-Methylphenol	2.614	2.637	-0.9	80	0.00
14	T	2,2'-oxybis(1-Chloropropane	1.564	1.608	-2.8	90	0.00
15	T	Hexachloroethane	1.108	1.137	-2.6	83	0.00
16	T	Acetophenone	4.043	4.120	-1.9	86	0.00
17	T	4-Methylphenol	2.566	2.595	-1.1	88	0.00
18	M	N-Nitroso-di-n-propylamine	2.294	2.370	-3.3	86	0.00
19	I	Naphthalene-d8	1.000	1.000	0.0	86	0.00
20	S	Nitrobenzene-d5	0.987	1.027	-4.1	87	0.00
21	T	Nitrobenzene	0.947	0.995	-5.1	86	0.00
22	T	Isophorone	1.654	1.680	-1.6	83	0.00
23	T	2-Nitrophenol	0.359	0.351	2.2	79	0.00
24	T	2,4-Dimethylphenol	0.572	0.498	12.9	82	0.00
25	T	bis(2-Chloroethoxy) methane	0.828	0.868	-4.8	84	0.00
26	T	2,4-Dichlorophenol	0.557	0.535	3.9	78	0.00
27	M	1,2,4-Trichlorobenzene	0.666	0.694	-4.2	82	0.00
28	T	Naphthalene	1.776	1.771	0.3	82	0.00
29	T	4-Chloroaniline	0.756	0.777	-2.8	85	0.00
30	T	Hexachlorobutadiene	0.459	0.482	-5.0	87	0.00
31	T	Caprolactam	0.228	0.239	-4.8	83	0.00
32	M	4-Chloro-3-methylphenol	0.703	0.711	-1.1	84	0.00
33	T	2-Methylnaphthalene	1.181	1.228	-4.0	87	0.00
34	I	Acenaphthene-d10	1.000	1.000	0.0	77	0.00
35	T	Hexachlorocyclopentadiene	0.874	0.995	-13.8	86	0.00
36	T	2,4,6-Trichlorophenol	0.730	0.837	-14.7	86	-0.01
37	T	2,4,5-Trichlorophenol	0.788	0.809	-2.7	82	0.00
38	S	2-Fluorobiphenyl	2.575	2.885	-12.0	85	0.00
39		1,1'-Biphenyl	2.498	2.740	-9.7	83	0.00
40	T	2-Chloronaphthalene	1.910	2.182	-14.2	89	0.00
41	T	2-Nitroaniline	0.809	0.911	-12.6	83	0.00
42	T	Acenaphthylene	3.040	3.295	-8.4	81	0.00
43	T	Dimethyl phthalate	2.303	2.528	-9.8	83	0.00
44	T	2,6-Dinitrotoluene	0.543	0.614	-13.1	86	0.13
45	T	3-Nitroaniline	0.529	0.656	-24.0	90	0.00
46	M	Acenaphthene	1.860	2.004	-7.7	80	0.00
47	T	2,4-Dinitrophenol	0.343	0.368	-7.3	79	0.00
48	T	Dibenzofuran	2.745	3.032	-10.5	83	-0.01
49	M	4-Nitrophenol	0.536	0.602	-12.3	82	0.00
50	M	2,4-Dinitrotoluene	0.719	0.832	-15.7	87	0.00
51	T	Fluorene	2.338	2.580	-10.4	81	0.00
52	T	Diethyl phthalate	2.301	2.571	-11.7	84	0.00
53	T	4-Chlorophenyl-phenyl ether	1.295	1.479	-14.2	85	0.00
54	T	4-Nitroaniline	0.507	0.556	-9.7	81	0.00
55	S	2,4,6-Tribromophenol	0.280	0.276	1.4	85	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08176.D Vial: 3
Acq On : 29 Jun 2011 1:28 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P

Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
56	I	Phenanthrene-d10	1.000	1.000	0.0	81	0.00
57	T	4,6-Dinitro-2-methylphenol	0.246	0.240	2.4	71	0.00
58	T	N-Nitrosodiphenylamine	0.824	0.844	-2.4	80	0.00
59	T	4-Bromophenyl-phenyl ether	0.365	0.380	-4.1	79	0.00
60		Atrazine	0.394	0.413	-4.8	80	0.00
61	T	Hexachlorobenzene	0.337	0.341	-1.2	77	0.00
62	M	Pentachlorophenol	0.095	0.075	21.1	75	0.00
63	T	Phenanthrene	1.660	1.751	-5.5	83	0.00
64	T	Anthracene	1.678	1.772	-5.6	80	0.00
65	T	Carbazole	1.439	1.543	-7.2	83	0.00
66	T	Di-n-butyl phthalate	1.818	1.912	-5.2	81	0.00
67	T	Fluoranthene	1.888	1.982	-5.0	80	0.00
68	I	Chrysene-d12	1.000	1.000	0.0	81	-0.01
69	M	Pyrene	1.751	1.846	-5.4	81	-0.01
70	S	Terphenyl-d14	1.253	1.342	-7.1	84	0.00
71	T	Butyl benzyl phthalate	0.705	0.754	-7.0	84	0.00
72	T	Benzo(a)Anthracene	1.712	1.795	-4.8	83	0.00
73	T	3,3'-Dichlorobenzidine	0.527	0.654	-24.1	84	0.00
74	T	Chrysene	1.608	1.727	-7.4	82	0.00
75	T	bis(2-Ethylhexyl) phthalate	0.990	1.053	-6.4	82	0.00
76	I	Perylene-d12	1.000	1.000	0.0	81	0.00
77	T	Di-n-octyl phthalate	1.945	2.037	-4.7	81	0.00
78	T	Benzo(b)fluoranthene	1.905	2.134	-12.0	89	0.00
79	T	Benzo(k)fluoranthene	1.901	1.777	6.5	75	0.00
80	T	Benzo(a)pyrene	1.879	1.895	-0.9	80	0.00
81	T	Indeno(1,2,3-cd)pyrene	2.060	2.119	-2.9	76	-0.01
82	T	Dibenz(a,h)anthracene	1.696	1.741	-2.7	75	-0.01
83	T	Benzo(g,h,i)perylene	1.744	1.881	-7.9	75	0.00

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08176.D Vial: 3
Acq On : 29 Jun 2011 1:28 pm Operator: MIZ
Sample : BNA MX 1&2 050 Inst : DEL6
Misc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 13:57:36 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.67	152	36771	20.00 ng/µl	0.00
19) Naphthalene-d8	7.14	136	135925	20.00 ng/µl	0.00
34) Acenaphthene-d10	9.96	164	82458	20.00 ng/µl	0.00
56) Phenanthrene-d10	12.78	188	177954	20.00 ng/µl	0.00
68) Chrysene-d12	18.14	240	207611	20.00 ng/µl	-0.01
76) Perylene-d12	21.06	264	184785	20.00 ng/µl	0.00
System Monitoring Compounds					
2) 2-Fluorophenol	4.60	112	112374	25.37 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 33.83%		
4) Phenol-d5	5.34	99	158624	25.07 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 33.43%		
6) 2-Chlorophenol-d4	5.50	132	109300	26.28 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 35.04%		
11) 1,2-Dichlorobenzene-d4	5.87	152	78089	24.64 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 49.28%		
20) Nitrobenzene-d5	6.27	82	174545	26.02 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 52.04%		
38) 2-Fluorobiphenyl	8.77	172	297364	28.00 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 56.00%		
55) 2,4,6-Tribromophenol	11.46	330	28473	24.68 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 32.91%		
70) Terphenyl-d14	16.02	244	348216	26.77 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 53.54%		

Target Compounds					Qvalue
3) Benzaldehyde	6.08	105	189385	25.48 ng/µl	96
5) Phenol	5.35	94	160055	25.27 ng/µl	82
7) 2-Chlorophenol	5.51	128	96550	24.09 ng/µl	93
8) bis(2-Chloroethyl) ether	5.43	93	112594	24.65 ng/µl #	74
9) 1,3-Dichlorobenzene	5.65	146	123055	25.80 ng/µl	88
10) 1,4-Dichlorobenzene	5.69	146	120738	24.14 ng/µl	96
12) 1,2-Dichlorobenzene	5.88	146	114294	25.18 ng/µl	90
13) 2-Methylphenol	5.91	108	121185	25.21 ng/µl	92
14) 2,2'-oxybis(1-Chloropropan	5.95	45	73899	25.70 ng/µl #	29
15) Hexachloroethane	6.21	117	52269	25.66 ng/µl #	71
16) Acetophenone	6.08	105	189385	25.48 ng/µl #	94
17) 4-Methylphenol	6.05	108	119298	25.29 ng/µl	86
18) N-Nitroso-di-n-propylamine	6.08	70	108953	25.83 ng/µl #	67
21) Nitrobenzene	6.29	77	169082	26.27 ng/µl	87
22) Isophorone	6.54	82	285510	25.40 ng/µl	85
23) 2-Nitrophenol	6.66	139	59643	24.43 ng/µl #	55
24) 2,4-Dimethylphenol	6.66	107	84654	21.78 ng/µl	86
25) bis(2-Chloroethoxy) methan	6.77	93	147411	26.19 ng/µl	94
26) 2,4-Dichlorophenol	6.94	162	90820	23.98 ng/µl	95
27) 1,2,4-Trichlorobenzene	7.07	180	117911	26.04 ng/µl	94
28) Naphthalene	7.16	128	300883	24.92 ng/µl	94
29) 4-Chloroaniline	7.23	127	131970	25.69 ng/µl	91
30) Hexachlorobutadiene	7.38	225	81900	26.27 ng/µl	90
31) Caprolactam	7.65	113	40656	26.29 ng/µl #	69
32) 4-Chloro-3-methylphenol	7.90	107	120865	25.31 ng/µl	90
33) 2-Methylnaphthalene	8.16	142	208631	26.00 ng/µl	89
35) Hexachlorocyclopentadiene	8.51	237	102531	28.45 ng/µl	95
36) 2,4,6-Trichlorophenol	8.64	196	86269	28.66 ng/µl	87
37) 2,4,5-Trichlorophenol	8.71	196	83369	25.65 ng/µl	97
39) 1,1'-Biphenyl	8.92	154	282433	27.42 ng/µl	100
40) 2-Chloronaphthalene	8.95	162	224914	28.56 ng/µl	94
41) 2-Nitroaniline	9.16	65	93902	28.15 ng/µl	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08176.D Vial: 3
Acq On : 29 Jun 2011 1:28 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 13:57:36 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

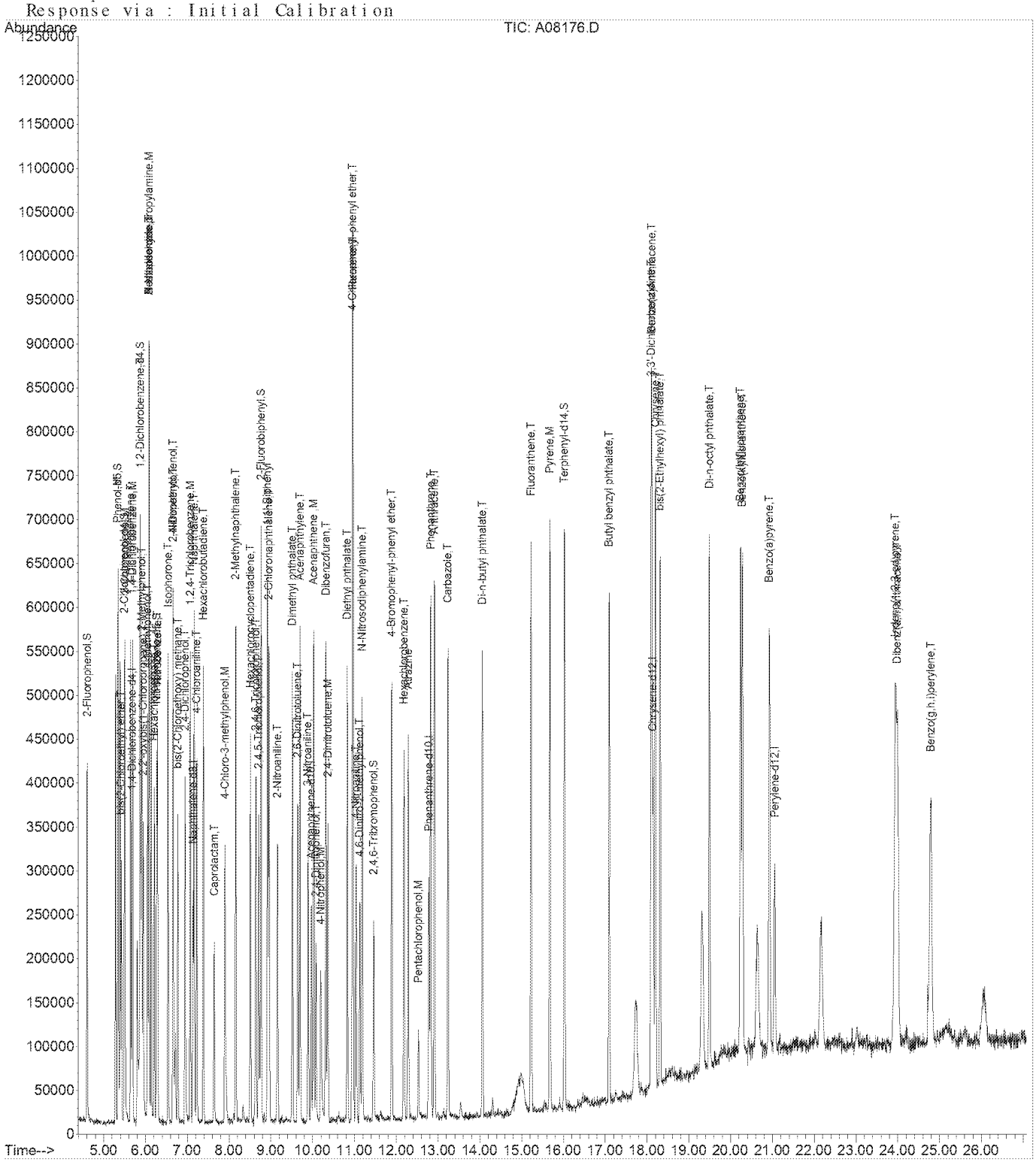
Compound	R.T.	Qion	Response	Conc Unit	Qvalue
42) Acenaphthylene	9.70	152	339606	27.09 ng/µl	93
43) Dimethyl phthalate	9.51	163	260532	27.44 ng/µl	77
44) 2,6-Dinitrotoluene	9.64	165	63299	28.29 ng/µl	82
45) 3-Nitroaniline	9.89	138	67642m	30.99 ng/µl	
46) Acenaphthene	10.03	153	206560	26.94 ng/µl	92
47) 2,4-Dinitrophenol	10.08	184	37902	26.84 ng/µl	96
48) Dibenzofuran	10.31	168	312562	27.62 ng/µl	97
49) 4-Nitrophenol	10.19	109	62007	28.08 ng/µl #	36
50) 2,4-Dinitrotoluene	10.36	165	85784	28.92 ng/µl	76
51) Fluorene	10.97	166	265876	27.59 ng/µl	94
52) Diethyl phthalate	10.83	149	264956	27.93 ng/µl	94
53) 4-Chlorophenyl-phenyl ethe	10.96	204	152457	28.56 ng/µl #	81
54) 4-Nitroaniline	11.04	138	57307	27.41 ng/µl	87
57) 4,6-Dinitro-2-methylphenol	11.13	198	53407	24.45 ng/µl	89
58) N-Nitrosodiphenylamine	11.19	169	187747	25.62 ng/µl	88
59) 4-Bromophenyl-phenyl ether	11.89	248	84503	26.00 ng/µl #	78
60) Atrazine	12.29	200	91852	26.20 ng/µl	100
61) Hexachlorobenzene	12.18	284	75822	25.30 ng/µl	92
62) Pentachlorophenol	12.53	266	16764	19.85 ng/µl	96
63) Phenanthrene	12.83	178	389601	26.38 ng/µl	98
64) Anthracene	12.91	178	394208	26.41 ng/µl	97
65) Carbazole	13.24	167	343198	26.81 ng/µl	98
66) Di-n-butyl phthalate	14.06	149	425381	26.30 ng/µl	95
67) Fluoranthene	15.22	202	440928	26.25 ng/µl	87
69) Pyrene	15.67	202	478948	26.35 ng/µl	82
71) Butyl benzyl phthalate	17.09	149	195797	26.77 ng/µl	87
72) Benzo(a)Anthracene	18.11	228	465749	26.21 ng/µl	94
73) 3,3'-Dichlorobenzidine	18.09	252	169630	30.98 ng/µl	94
74) Chrysene	18.20	228	448204	26.85 ng/µl	96
75) bis(2-Ethylhexyl) phthalat	18.31	149	273183	26.59 ng/µl	98
77) Di-n-octyl phthalate	19.49	149	470482	26.18 ng/µl	99
78) Benzo(b)fluoranthene	20.24	252	493005	28.01 ng/µl	98
79) Benzo(k)fluoranthene	20.28	252	410384	23.36 ng/µl	96
80) Benzo(a)pyrene	20.93	252	437811	25.22 ng/µl	85
81) Indeno(1,2,3-cd)pyrene	23.94	276	489468	25.72 ng/µl	81
82) Dibenz(a,h)anthracene	23.99	278	402222	25.67 ng/µl	89
83) Benzo(g,h,i)perylene	24.80	276	434372	26.96 ng/µl	94

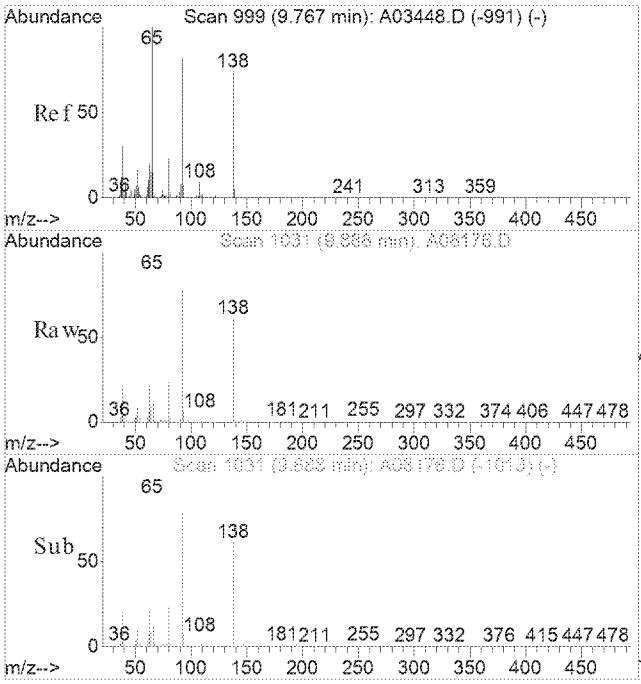
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08176.D Vial: 3
Acq On : 29 Jun 2011 1:28 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Msc : 6/28/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 13:58 2011 Quant Results File: I60629.RES

Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration

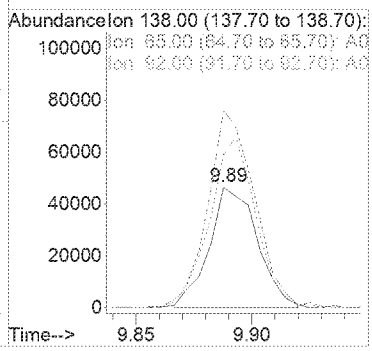


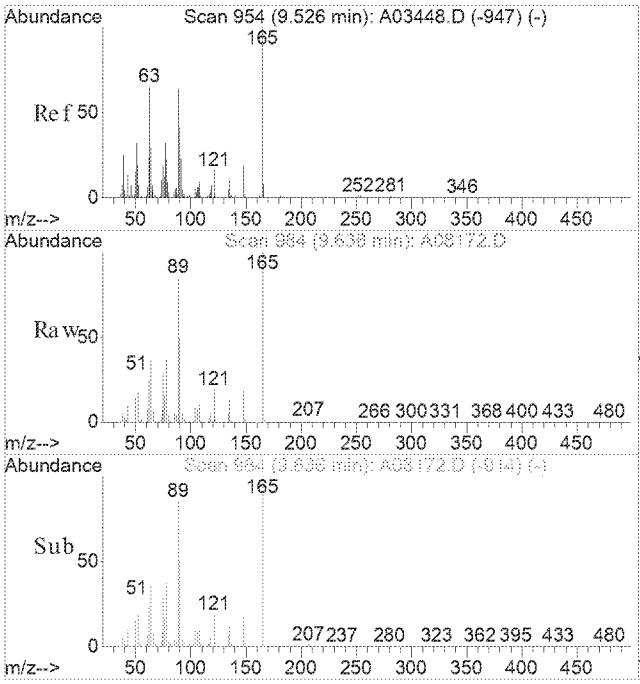


#45
3-Nitroaniline
Concen: 30.99 ng/µl m
RT: 9.89 min Scan# 1031
Delta R.T. -0.01 min
Lab File: A08176.D
Acq: 29 Jun 2011 1:28 pm

Tgt Ion: 138 Resp: 67642

Ion	Ratio	Lower	Upper
138	100		
65	163.4	128.1	198.1
92	126.9	80.4	150.4

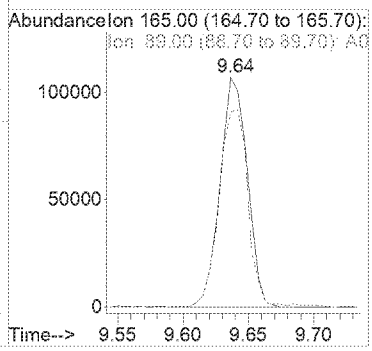




#44
2, 6-Dinitrotoluene
Concen: 94.13 ng/µl m
RT: 9.64 min Scan# 984
Delta R.T. 0.12 min
Lab File: A08172.D
Acq: 29 Jun 2011 11:38 am

Tgt Ion: 165 Resp: 155887

Ion	Ratio	Lower	Upper
165	100		
89	84.8	37.5	77.5#



Response Factor Report DEL6

Method : C:\MSDCHEM.1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration

Calibration Files
020 =A08214.D 050 =A08213.D 080 =A08212.D
120 =A08211.D 160 =A08210.D

		Compound	020	050	080	120	160	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	ISTD						
2)	S	2-Fluorophenol	2.236	2.427	2.404	2.590	2.613	2.454	6.26
3)	T	Benzaldehyde	3.726	4.352	3.654	4.463	4.547	4.149	10.24
4)	S	Phenol-d5	3.190	3.639	3.211	3.780	3.875	3.539	9.05
5)	M	Phenol	3.207	3.727	3.256	3.803	3.661	3.531	7.88
6)	S	2-Chlorophenol-d4	2.157	2.400	2.193	2.394	2.446	2.318	5.73
7)	M	2-Chlorophenol	2.213	2.279	2.134	2.402	2.320	2.270	4.49
8)	T	bis(2-Chloroethyl	2.508	2.543	2.412	2.842	2.641	2.589	6.31
9)	T	1,3-Dichlorobenze	2.453	2.720	2.529	2.835	2.812	2.670	6.41
10)	M	1,4-Dichlorobenze	2.677	2.839	2.639	2.830	2.876	2.772	3.84
11)	S	1,2-Dichlorobenze	1.666	1.691	1.620	1.763	1.826	1.713	4.75
12)	T	1,2-Dichlorobenze	2.334	2.621	2.375	2.594	2.667	2.518	6.05
13)	T	2-Methylphenol	2.190	2.365	2.137	2.503	2.513	2.341	7.42
14)	T	2,2'-oxybis(1-Chl	1.436	1.643	1.430	1.704	1.579	1.558	7.85
15)	T	Hexachloroethane	1.102	1.164	1.047	1.114	1.155	1.116	4.20
16)	T	Acetophenone	3.726	4.352	3.654	4.463	4.547	4.149	10.24
17)	T	4-Methylphenol	2.371	2.604	2.235	2.531	2.637	2.476	6.83
18)	M	N-Nitroso-di-n-pr	2.148	2.461	2.025	2.572	2.521	2.345	10.37
19)	I	Naphthalene-d8	ISTD						
20)	S	Nitrobenzene-d5	1.030	1.126	1.001	1.069	1.108	1.067	4.91
21)	T	Nitrobenzene	0.998	1.087	0.988	1.027	1.072	1.034	4.26
22)	T	Isophorone	1.637	1.829	1.595	1.759	1.869	1.738	6.84
23)	T	2-Nitrophenol	0.361	0.408	0.358	0.360	0.392	0.376	6.02
24)	T	2,4-Dimethylpheno	0.623	0.510	0.524	0.531	0.540	0.546	8.14
25)	T	bis(2-Chloroethox	0.869	0.924	0.798	0.894	0.902	0.877	5.51
26)	T	2,4-Dichloropheno	0.520	0.587	0.535	0.571	0.633	0.569	7.83
27)	M	1,2,4-Trichlorobe	0.672	0.769	0.669	0.719	0.741	0.714	6.12
28)	T	Naphthalene	1.791	2.016	1.816	1.958	1.993	1.915	5.42
29)	T	4-Chloroaniline	0.741	0.872	0.766	0.826	0.854	0.812	6.96
30)	T	Hexachlorobutadie	0.473	0.511	0.473	0.496	0.524	0.495	4.63
31)	T	Caprolactam	0.223	0.272	0.240	0.238	0.259	0.246	7.70
32)	M	4-Chloro-3-methyl	0.618	0.784	0.683	0.717	0.773	0.715	9.51
33)	T	2-Methylnaphthale	1.149	1.292	1.154	1.228	1.309	1.226	6.11
34)	I	Acenaphthene-d10	ISTD						
35)	T	Hexachlorocyclope	0.954	0.935	0.932	0.996	0.897	0.943	3.84
36)	T	2,4,6-Trichloroph	0.735	0.807	0.713	0.797	0.717	0.754	5.97
37)	T	2,4,5-Trichloroph	0.720	0.822	0.675	0.784	0.790	0.758	7.82
38)	S	2-Fluorobiphenyl	2.786	2.913	2.661	2.947	2.585	2.778	5.62
39)		1,1'-Biphenyl	2.658	2.705	2.522	2.668	2.506	2.612	3.49
40)	T	2-Chloronaphthale	2.047	2.126	1.968	2.108	1.943	2.039	4.00
41)	T	2-Nitroaniline	0.864	0.920	0.824	0.839	0.810	0.851	5.08
42)	T	Acenaphthylene	3.156	3.385	3.026	3.250	3.113	3.186	4.31
43)	T	Dimethyl phthalat	2.383	2.667	2.280	2.475	2.426	2.446	5.84
44)	T	2,6-Dinitrotoluen	0.533	0.596	0.529	0.570	0.596	0.565	5.77
45)	T	3-Nitroaniline	0.514	0.625	0.562	0.541	0.559	0.560	7.28
46)	M	Acenaphthene	1.955	2.101	1.879	1.977	1.930	1.968	4.19
47)	T	2,4-Dinitrophenol	0.304	0.382	0.360	0.359	0.434	0.368	12.72
48)	T	Dibenzofuran	2.793	3.108	2.670	2.959	2.884	2.883	5.76
49)	M	4-Nitrophenol	0.413	0.629	0.491	0.522	0.597	0.530	16.22
50)	M	2,4-Dinitrotoluen	0.723	0.841	0.730	0.757	0.789	0.768	6.30
51)	T	Fluorene	2.236	2.593	2.276	2.426	2.388	2.384	5.90
52)	T	Diethyl phthalate	2.239	2.591	2.187	2.403	2.396	2.363	6.73
53)	T	4-Chlorophenyl-ph	1.360	1.434	1.259	1.343	1.340	1.347	4.63
54)	T	4-Nitroaniline	0.501	0.575	0.525	0.511	0.562	0.535	6.05
55)	S	2,4,6-Tribromphe	0.221	0.315	0.263	0.284	0.307	0.278	13.62
56)	I	Phenanthrene-d10	ISTD						

(#) = Out of Range

Response Factor Report DEL6

Method : C:\MSDCHEM.1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration

Calibration Files
020 =A08214.D 050 =A08213.D 080 =A08212.D
120 =A08211.D 160 =A08210.D

		Compound	020	050	080	120	160	Avg	%RSD
57)	T	4,6-Dinitro-2-met	0.224	0.245	0.226	0.255	0.277	0.245	8.98
58)	T	N-Nitrosodiphenyl	0.866	0.875	0.805	0.869	0.842	0.851	3.39
59)	T	4-Bromophenyl-phe	0.359	0.382	0.348	0.385	0.360	0.367	4.38
60)		Atrazine	0.402	0.414	0.384	0.417	0.419	0.407	3.59
61)	T	Hexachlorobenzene	0.377	0.367	0.341	0.354	0.345	0.357	4.28
62)	M	Pentachlorophenol		0.080	0.077	0.105	0.140	0.101	29.04
63)	T	Phenanthrene	1.690	1.772	1.622	1.699	1.735	1.704	3.30
64)	T	Anthracene	1.695	1.826	1.637	1.724	1.782	1.733	4.24
65)	T	Carbazole	1.497	1.557	1.417	1.456	1.523	1.490	3.68
66)	T	Di-n-butyl phthal	1.819	1.911	1.713	1.874	1.878	1.839	4.23
67)	T	Fluoranthene	1.907	2.075	1.906	1.863	2.025	1.955	4.60
68)	I	Chrysene-d12	----------ISTD----------						
69)	M	Pyrene	1.758	2.088	1.970	2.098	1.933	1.969	7.03
70)	S	Terphenyl-d14	1.268	1.443	1.347	1.440	1.339	1.368	5.44
71)	T	Butyl benzyl phth	0.658	0.824	0.759	0.816	0.738	0.759	8.86
72)	T	Benzo(a)Anthracen	1.737	1.958	1.780	1.832	1.835	1.828	4.54
73)	T	3,3'-Dichlorobenz	0.617	0.681	0.605	0.584	0.553	0.608	7.83
74)	T	Chrysene	1.608	1.853	1.680	1.692	1.763	1.719	5.40
75)	T	bis(2-Ethylhexyl)	0.994	1.082	1.021	1.092	1.008	1.039	4.31
76)	I	Perylene-d12	----------ISTD----------						
77)	T	Di-n-octyl phthal	1.974	2.087	1.921	2.007	1.760	1.950	6.24
78)	T	Benzo(b)fluoranth	1.963	2.043	2.057	2.034	2.145	2.049	3.17
79)	T	Benzo(k)fluoranth	1.904	1.946	1.899	1.894	2.048	1.938	3.34
80)	T	Benzo(a)pyrene	1.903	2.088	2.002	1.973	2.034	2.000	3.44
81)	T	Indeno(1,2,3-cd)p	1.998	2.213	2.041	1.998	1.962	2.042	4.86
82)	T	Dibenz(a,h)anthra	1.538	1.864	1.642	1.648	1.650	1.668	7.13
83)	T	Benzo(g,h,i)peryl	1.671	1.851	1.727	1.667	1.616	1.706	5.28

(#) = Out of Range

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60705L.MIZ\A08214.D Vial: 3
Acq On : 5 Jul 2011 8:09 pm Operator: MIZ
Sample : BNA MIX 1&2 020 Inst : DEL6
Misc : 7/5/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 06 08:06:33 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Tue Jul 05 16:12:40 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	75897	20.00 ng/µl	-0.01
19) Naphthalene-d8	7.05	136	252180	20.00 ng/µl	-0.02
34) Acenaphthene-d10	9.86	164	149817	20.00 ng/µl	-0.02
56) Phenanthrene-d10	12.67	188	304835	20.00 ng/µl	-0.02
68) Chrysene-d12	18.03	240	352235	20.00 ng/µl	-0.02
76) Perylene-d12	20.89	264	295375	20.00 ng/µl	-0.03
System Monitoring Compounds					
2) 2-Fluorophenol	4.55	112	84867	9.01 ng/µl	-0.01
Spiked Amount 75.000	Range 21 - 110		Recovery = 12.01%#		
4) Phenol-d5	5.27	99	121058	8.73 ng/µl	-0.01
Spiked Amount 75.000	Range 10 - 110		Recovery = 11.64%		
6) 2-Chlorophenol-d4	5.43	132	81849	9.04 ng/µl	-0.02
Spiked Amount 75.000	Range 33 - 110		Recovery = 12.05%#		
11) 1,2-Dichlorobenzene-d4	5.80	152	63219	9.40 ng/µl	-0.01
Spiked Amount 50.000	Range 16 - 110		Recovery = 18.80%		
20) Nitrobenzene-d5	6.19	82	129916	10.05 ng/µl	-0.02
Spiked Amount 50.000	Range 34 - 114		Recovery = 20.10%#		
38) 2-Fluorobiphenyl	8.66	172	208709	9.96 ng/µl	-0.03
Spiked Amount 50.000	Range 43 - 116		Recovery = 19.92%#		
55) 2,4,6-Tribromophenol	11.35	330	16539	8.94 ng/µl	-0.03
Spiked Amount 75.000	Range 10 - 123		Recovery = 11.92%		
70) Terphenyl-d14	15.91	244	223342	9.16 ng/µl	-0.03
Spiked Amount 50.000	Range 33 - 141		Recovery = 18.32%#		

Target Compounds					Qvalue
3) Benzaldehyde	6.01	105	141400	8.78 ng/µl	95
5) Phenol	5.28	94	121715	8.84 ng/µl	89
7) 2-Chlorophenol	5.44	128	83987	9.61 ng/µl	95
8) bis(2-Chloroethyl) ether	5.36	93	95169	9.31 ng/µl #	80
9) 1,3-Dichlorobenzene	5.58	146	93074	9.02 ng/µl	82
10) 1,4-Dichlorobenzene	5.62	146	101596	9.50 ng/µl	86
12) 1,2-Dichlorobenzene	5.81	146	88554	9.03 ng/µl	93
13) 2-Methylphenol	5.84	108	83111	8.83 ng/µl	95
14) 2,2'-oxybis(1-Chloropropan	5.88	45	54507	8.75 ng/µl #	33
15) Hexachloroethane	6.13	117	41811	9.69 ng/µl	76
16) Acetophenone	6.01	105	141400	8.78 ng/µl	93
17) 4-Methylphenol	5.97	108	89986	9.59 ng/µl #	70
18) N-Nitroso-di-n-propylamine	6.01	70	81526	8.75 ng/µl #	68
21) Nitrobenzene	6.21	77	125833	9.94 ng/µl	89
22) Isophorone	6.46	82	206412	9.69 ng/µl	83
23) 2-Nitrophenol	6.58	139	45492	10.12 ng/µl #	61
24) 2,4-Dimethylphenol	6.58	107	78530	11.78 ng/µl	94
25) bis(2-Chloroethoxy) methan	6.69	93	109580	10.07 ng/µl	95
26) 2,4-Dichlorophenol	6.86	162	65547	9.33 ng/µl	93
27) 1,2,4-Trichlorobenzene	6.99	180	84687	9.62 ng/µl	91
28) Naphthalene	7.08	128	225882	9.58 ng/µl	93
29) 4-Chloroaniline	7.14	127	93422	9.47 ng/µl	95
30) Hexachlorobutadiene	7.30	225	59596	9.72 ng/µl	87
31) Caprolactam	7.55	113	28121	10.07 ng/µl	91
32) 4-Chloro-3-methylphenol	7.80	107	77971	9.05 ng/µl	94
33) 2-Methylnaphthalene	8.07	142	144870	9.67 ng/µl #	85
35) Hexachlorocyclopentadiene	8.41	237	71497	9.63 ng/µl #	87
36) 2,4,6-Trichlorophenol	8.54	196	55033	9.81 ng/µl	95
37) 2,4,5-Trichlorophenol	8.61	196	53965	9.58 ng/µl #	83
39) 1,1'-Biphenyl	8.82	154	199120	10.06 ng/µl	100
40) 2-Chloronaphthalene	8.86	162	153373	9.93 ng/µl	93
41) 2-Nitroaniline	9.06	65	64712	10.30 ng/µl #	77

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM.1\DATA\MS60705L.MIZ\A08214.D Vial: 3
Acq On : 5 Jul 2011 8:09 pm Operator: MIZ
Sample : BNA MX 1&2 020 Inst : DEL6
Misc : 7/5/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 06 08:06:33 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM.1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Tue Jul 05 16:12:40 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

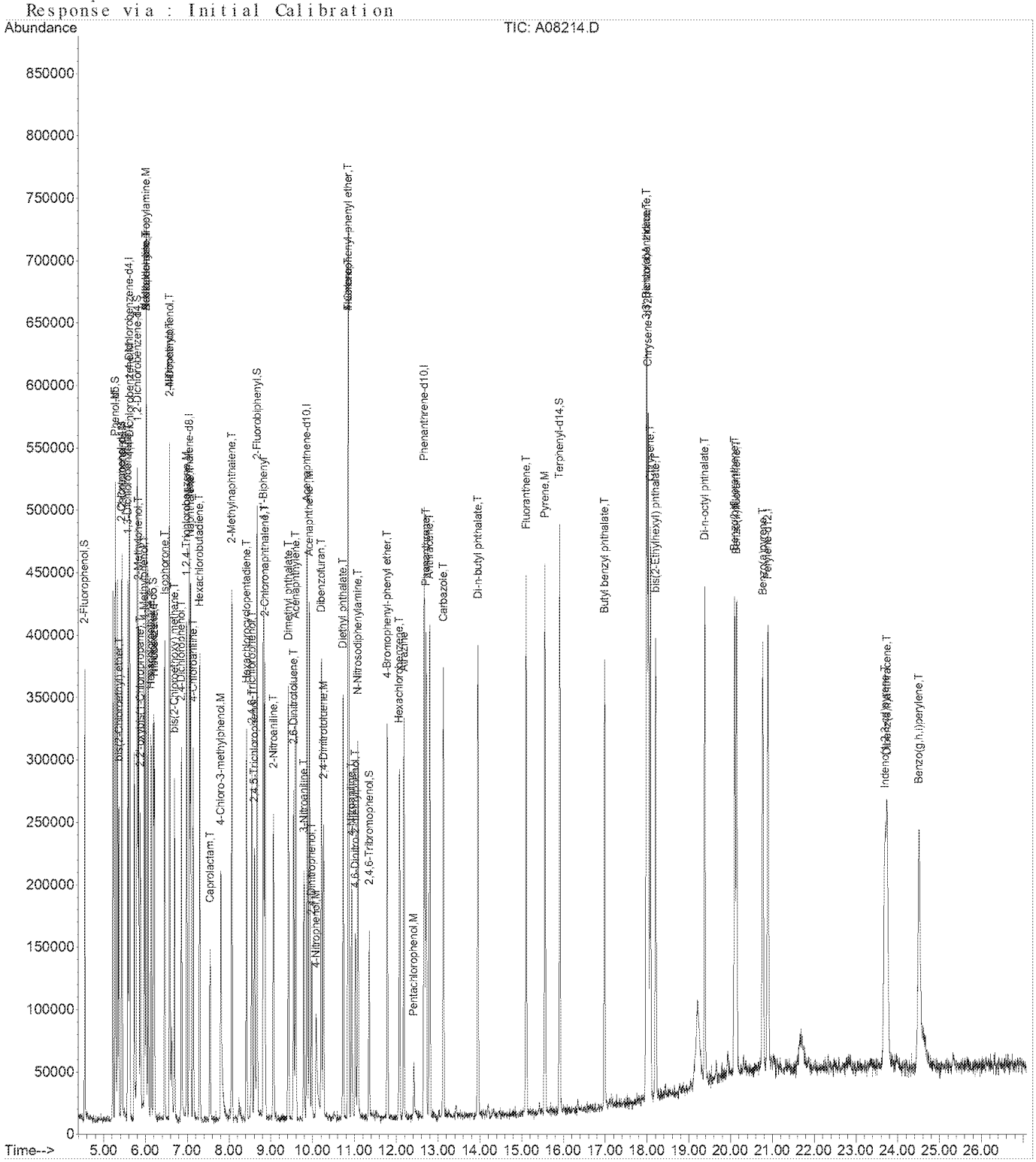
Compound	R.T.	Qion	Response	Conc Unit	Qvalue
42) Acenaphthylene	9.59	152	236382	9.83 ng/µl	98
43) Dimethyl phthalate	9.42	163	178501	9.89 ng/µl	82
44) 2,6-Dinitrotoluene	9.55	165	39891	9.77 ng/µl	80
45) 3-Nitroaniline	9.80	138	38537	9.35 ng/µl	92
46) Acenaphthene	9.92	153	146483	9.90 ng/µl	93
47) 2,4-Dinitrophenol	9.98	184	22780	8.49 ng/µl #	63
48) Dibenzofuran	10.21	168	209202	9.69 ng/µl	90
49) 4-Nitrophenol	10.08	109	30932	7.94 ng/µl #	40
50) 2,4-Dinitrotoluene	10.26	165	54140	9.91 ng/µl	90
51) Fluorene	10.85	166	167460	9.48 ng/µl	100
52) Diethyl phthalate	10.73	149	167698	9.61 ng/µl	93
53) 4-Chlorophenyl-phenyl ethe	10.85	204	101905	10.02 ng/µl	84
54) 4-Nitroaniline	10.93	138	37528	9.95 ng/µl	79
57) 4,6-Dinitro-2-methylphenol	11.03	198	34153	9.47 ng/µl	94
58) N-Nitrosodiphenylamine	11.08	169	131918	9.97 ng/µl	96
59) 4-Bromophenyl-phenyl ether	11.78	248	54693	9.21 ng/µl	92
60) Atrazine	12.18	200	61202	10.14 ng/µl	95
61) Hexachlorobenzene	12.07	284	57514	10.57 ng/µl	82
62) Pentachlorophenol	12.43	266	7069	7.65 ng/µl	92
63) Phenanthrene	12.71	178	257566	9.82 ng/µl	97
64) Anthracene	12.80	178	258341	9.89 ng/µl	95
65) Carbazole	13.13	167	228182	10.34 ng/µl	97
66) Di-n-butyl phthalate	13.95	149	277190	9.92 ng/µl	95
67) Fluoranthene	15.11	202	290662	10.11 ng/µl	88
69) Pyrene	15.56	202	309540	8.74 ng/µl	86
71) Butyl benzyl phthalate	16.99	149	115845	8.59 ng/µl	82
72) Benzo(a)Anthracene	17.99	228	305929	9.59 ng/µl	95
73) 3,3'-Dichlorobenzidine	17.98	252	108629	10.31 ng/µl	99
74) Chrysene	18.08	228	283154	9.46 ng/µl	93
75) bis(2-Ethylhexyl) phthalat	18.21	149	175064	9.19 ng/µl	93
77) Di-n-octyl phthalate	19.38	149	291510	9.72 ng/µl	96
78) Benzo(b)fluoranthene	20.10	252	289978	9.45 ng/µl	97
79) Benzo(k)fluoranthene	20.14	252	281135	9.74 ng/µl	95
80) Benzo(a)pyrene	20.77	252	281119	9.51 ng/µl	83
81) Indeno(1,2,3-cd)pyrene	23.69	276	295133	9.69 ng/µl	81
82) Dibenz(a,h)anthracene	23.75	278	227199	8.90 ng/µl	91
83) Benzo(g,h,i)perylene	24.50	276	246773	9.22 ng/µl	97

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

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM.1\DATA\MS60705L.MIZ\A08214.D Vial: 3
Acq On : 5 Jul 2011 8:09 pm Operator: MIZ
Sample : BNA MIX 1&2 020 Inst : DEL6
Msc : 7/5/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 6 8:06 2011 Quant Results File: I60705B.RES

Method : C:\MSDCHEM.1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60705L.MIZ\A08213.D Vial: 2
Acq On : 5 Jul 2011 7:33 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 7/5/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 06 08:06:32 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Tue Jul 05 16:12:40 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	61121	20.00 ng/µl	0.00
19) Naphthalene-d8	7.07	136	219425	20.00 ng/µl	0.00
34) Acenaphthene-d10	9.88	164	145094	20.00 ng/µl	0.00
56) Phenanthrene-d10	12.69	188	318782	20.00 ng/µl	0.00
68) Chrysene-d12	18.05	240	335741	20.00 ng/µl	0.00
76) Perylene-d12	20.92	264	308725	20.00 ng/µl	0.00
System Monitoring Compounds					
2) 2-Fluorophenol	4.56	112	185398	24.45 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 32.60%		
4) Phenol-d5	5.28	99	278015	24.90 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 33.20%		
6) 2-Chlorophenol-d4	5.44	132	183355	25.14 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 33.52%		
11) 1,2-Dichlorobenzene-d4	5.81	152	129206	23.86 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 47.72%		
20) Nitrobenzene-d5	6.21	82	308922	27.47 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 54.94%		
38) 2-Fluorobiphenyl	8.69	172	528241	26.03 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 52.06%		
55) 2,4,6-Tribromophenol	11.37	330	57150	31.91 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 42.55%		
70) Terphenyl-d14	15.94	244	605793	26.08 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 52.16%		

Target Compounds					Qvalue
3) Benzaldehyde	6.03	105	332517	25.64 ng/µl	97
5) Phenol	5.29	94	284720	25.67 ng/µl	87
7) 2-Chlorophenol	5.45	128	174125	24.74 ng/µl	92
8) bis(2-Chloroethyl) ether	5.37	93	194277	23.60 ng/µl #	79
9) 1,3-Dichlorobenzene	5.59	146	207839	25.02 ng/µl	90
10) 1,4-Dichlorobenzene	5.64	146	216922	25.18 ng/µl	97
12) 1,2-Dichlorobenzene	5.83	146	200243	25.36 ng/µl	94
13) 2-Methylphenol	5.85	108	180668	23.84 ng/µl	98
14) 2,2'-oxybis(1-Chloropropan	5.89	45	125491	25.03 ng/µl #	37
15) Hexachloroethane	6.15	117	88953	25.61 ng/µl #	60
16) Acetophenone	6.03	105	332517	25.64 ng/µl #	95
17) 4-Methylphenol	5.99	108	198932	26.33 ng/µl	87
18) N-Nitroso-di-n-propylamine	6.03	70	188012	25.06 ng/µl #	72
21) Nitrobenzene	6.23	77	298217	27.07 ng/µl	84
22) Isophorone	6.47	82	501574	27.07 ng/µl	89
23) 2-Nitrophenol	6.60	139	111806	28.58 ng/µl	80
24) 2,4-Dimethylphenol	6.59	107	139982	24.13 ng/µl	96
25) bis(2-Chloroethoxy) methan	6.71	93	253299	26.74 ng/µl	97
26) 2,4-Dichlorophenol	6.88	162	160951	26.32 ng/µl	93
27) 1,2,4-Trichlorobenzene	7.00	180	211058	27.54 ng/µl	96
28) Naphthalene	7.09	128	552904	26.94 ng/µl	94
29) 4-Chloroaniline	7.16	127	239171	27.87 ng/µl	93
30) Hexachlorobutadiene	7.31	225	140284	26.29 ng/µl	95
31) Caprolactam	7.58	113	74490	30.67 ng/µl	99
32) 4-Chloro-3-methylphenol	7.82	107	215091	28.68 ng/µl	85
33) 2-Methylnaphthalene	8.08	142	354404m	27.18 ng/µl	
35) Hexachlorocyclopentadiene	8.43	237	169533	23.58 ng/µl #	85
36) 2,4,6-Trichlorophenol	8.56	196	146300	26.92 ng/µl	91
37) 2,4,5-Trichlorophenol	8.63	196	149144	27.34 ng/µl	93
39) 1,1'-Biphenyl	8.84	154	490568	25.60 ng/µl	100
40) 2-Chloronaphthalene	8.88	162	385567	25.78 ng/µl	99
41) 2-Nitroaniline	9.08	65	166842	27.43 ng/µl	86

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60705L.MIZ\A08213.D Vial: 2
Acq On : 5 Jul 2011 7:33 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 7/5/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 06 08:06:32 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Tue Jul 05 16:12:40 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

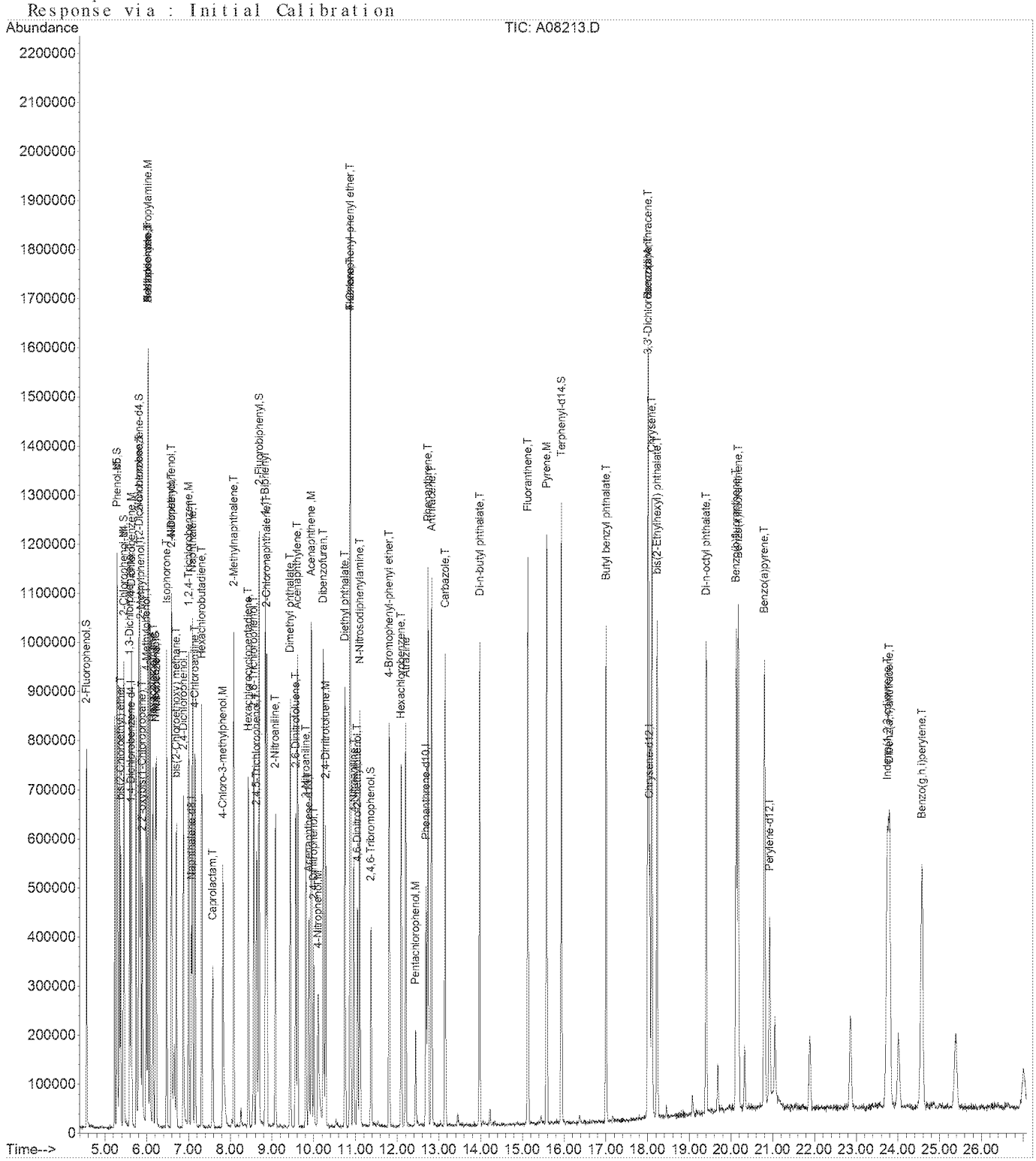
Compound	R.T.	Qion	Response	Conc Unit	Qvalue
42) Acenaphthylene	9.61	152	613848	26.36 ng/µl	98
43) Dimethyl phthalate	9.44	163	483724	27.68 ng/µl	85
44) 2,6-Dinitrotoluene	9.57	165	108111	27.33 ng/µl	88
45) 3-Nitroaniline	9.81	138	113345	28.41 ng/µl #	76
46) Acenaphthene	9.95	153	380993	26.58 ng/µl	93
47) 2,4-Dinitrophenol	10.00	184	69230	26.65 ng/µl	92
48) Dibenzofuran	10.23	168	563749	26.96 ng/µl	98
49) 4-Nitrophenol	10.11	109	114109	30.23 ng/µl #	37
50) 2,4-Dinitrotoluene	10.28	165	152516	28.81 ng/µl	92
51) Fluorene	10.88	166	470268	27.48 ng/µl	96
52) Diethyl phthalate	10.75	149	469963	27.82 ng/µl	99
53) 4-Chlorophenyl-phenyl ethe	10.87	204	260033	26.41 ng/µl	86
54) 4-Nitroaniline	10.96	138	104229	28.54 ng/µl	82
57) 4,6-Dinitro-2-methylphenol	11.05	198	97667	25.89 ng/µl	95
58) N-Nitrosodiphenylamine	11.11	169	348627	25.19 ng/µl	96
59) 4-Bromophenyl-phenyl ether	11.81	248	152035	24.48 ng/µl	84
60) Atrazine	12.21	200	164793	26.10 ng/µl	96
61) Hexachlorobenzene	12.10	284	146075	25.67 ng/µl	75
62) Pentachlorophenol	12.44	266	31960	33.07 ng/µl	86
63) Phenanthrene	12.74	178	706292	25.75 ng/µl	95
64) Anthracene	12.83	178	727422	26.63 ng/µl	98
65) Carbazole	13.15	167	620355	26.87 ng/µl	97
66) Di-n-butyl phthalate	13.97	149	761549	26.06 ng/µl	93
67) Fluoranthene	15.13	202	826844	27.49 ng/µl	88
69) Pyrene	15.58	202	876415	25.96 ng/µl	81
71) Butyl benzyl phthalate	17.00	149	345735	26.89 ng/µl	95
72) Benzo(a)Anthracene	18.02	228	821704	27.03 ng/µl	96
73) 3,3'-Dichlorobenzidine	18.00	252	285918	28.48 ng/µl	97
74) Chrysene	18.10	228	777562	27.26 ng/µl	93
75) bis(2-Ethylhexyl) phthalat	18.23	149	454080	25.02 ng/µl	98
77) Di-n-octyl phthalate	19.40	149	805233	25.70 ng/µl	99
78) Benzo(b)fluoranthene	20.13	252	788254	24.58 ng/µl	95
79) Benzo(k)fluoranthene	20.18	252	750912	24.90 ng/µl	95
80) Benzo(a)pyrene	20.80	252	805633	26.08 ng/µl	84
81) Indeno(1,2,3-cd)pyrene	23.75	276	853859	26.82 ng/µl	89
82) Dibenz(a,h)anthracene	23.79	278	719283	26.95 ng/µl	90
83) Benzo(g,h,i)perylene	24.58	276	714310	25.52 ng/µl	91

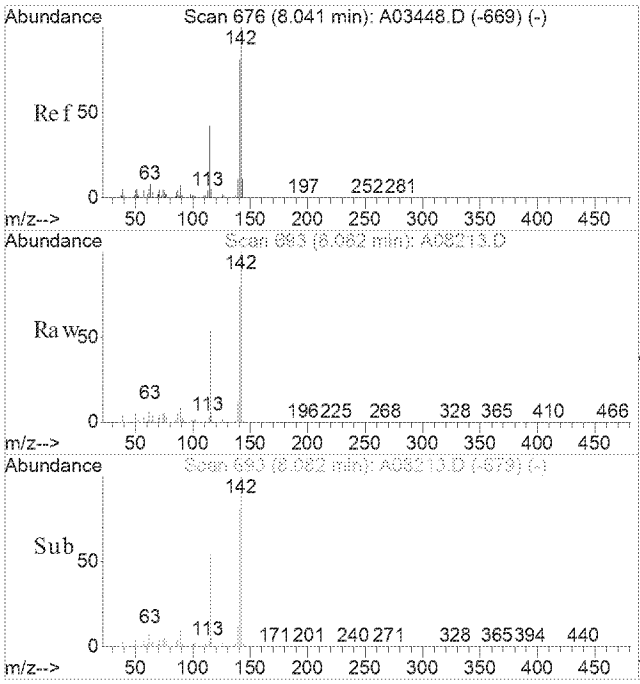
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM.1\DATA\MS60705L.MIZ\A08213.D Vial: 2
Acq On : 5 Jul 2011 7:33 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Msc : 7/5/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 6 8:37 2011 Quant Results File: I60705B.RES

Method : C:\MSDCHEM.1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration

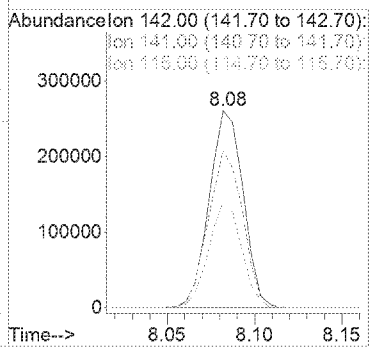




#33
2-Methylnaphthalene
Concen: 27.18 ng/µl m
RT: 8.08 min Scan# 693
Delta R.T. -0.18 min
Lab File: A08213.D
Acq: 5 Jul 2011 7:33 pm

Tgt Ion: 142 Resp: 354404

Ion	Ratio	Lower	Upper
142	100		
141	79.8	62.4	102.4
115	54.0	12.7	52.7#



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60705L.MIZ\A08212.D Vial: 4
Acq On : 5 Jul 2011 6:57 pm Operator: MIZ
Sample : BNA MIX 1&2 080 Inst : DEL6
Misc : 7/5/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 06 08:06:31 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Tue Jul 05 16:12:40 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	51743	20.00 ng/µl	0.00
19) Naphthalene-d8	7.07	136	173036	20.00 ng/µl	0.00
34) Acenaphthene-d10	9.88	164	106971	20.00 ng/µl	0.00
56) Phenanthrene-d10	12.69	188	222803	20.00 ng/µl	0.00
68) Chrysene-d12	18.05	240	225628	20.00 ng/µl	0.00
76) Perylene-d12	20.92	264	201116	20.00 ng/µl	0.00
System Monitoring Compounds					
2) 2-Fluorophenol	4.56	112	248800	38.76 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 51.68%		
4) Phenol-d5	5.28	99	332307	35.16 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 46.88%		
6) 2-Chlorophenol-d4	5.44	132	226908	36.75 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 49.00%		
11) 1,2-Dichlorobenzene-d4	5.81	152	167699	36.58 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 73.16%		
20) Nitrobenzene-d5	6.21	82	346263	39.04 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 78.08%		
38) 2-Fluorobiphenyl	8.69	172	569280	38.06 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 76.12%		
55) 2,4,6-Tribromophenol	11.37	330	56282	42.63 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 56.84%		
70) Terphenyl-d14	15.93	244	607968	38.94 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 77.88%		
Target Compounds					Qvalue
3) Benzaldehyde	6.03	105	378157	34.45 ng/µl	94
5) Phenol	5.29	94	336947	35.89 ng/µl	84
7) 2-Chlorophenol	5.45	128	220870	37.07 ng/µl	93
8) bis(2-Chloroethyl) ether	5.37	93	249582	35.82 ng/µl #	82
9) 1,3-Dichlorobenzene	5.59	146	261726	37.21 ng/µl	99
10) 1,4-Dichlorobenzene	5.64	146	273089	37.45 ng/µl	93
12) 1,2-Dichlorobenzene	5.83	146	245821	36.77 ng/µl	96
13) 2-Methylphenol	5.85	108	221154	34.48 ng/µl	98
14) 2,2'-oxybis(1-Chloropropan	5.89	45	148031	34.87 ng/µl #	40
15) Hexachloroethane	6.15	117	108346	36.84 ng/µl #	62
16) Acetophenone	6.03	105	378157	34.45 ng/µl	92
17) 4-Methylphenol	5.99	108	231318	36.16 ng/µl #	80
18) N-Nitroso-di-n-propylamine	6.03	70	209579	33.00 ng/µl #	76
21) Nitrobenzene	6.23	77	341819	39.35 ng/µl	85
22) Isophorone	6.47	82	551814	37.76 ng/µl	86
23) 2-Nitrophenol	6.59	139	124053	40.21 ng/µl #	75
24) 2,4-Dimethylphenol	6.59	107	181412	39.65 ng/µl	92
25) bis(2-Chloroethoxy) methan	6.71	93	276235	36.98 ng/µl	94
26) 2,4-Dichlorophenol	6.87	162	185067	38.38 ng/µl	93
27) 1,2,4-Trichlorobenzene	7.00	180	231570	38.32 ng/µl	86
28) Naphthalene	7.09	128	628486	38.83 ng/µl	94
29) 4-Chloroaniline	7.16	127	265010	39.16 ng/µl	90
30) Hexachlorobutadiene	7.31	225	163657	38.90 ng/µl	91
31) Caprolactam	7.59	113	83099	43.38 ng/µl	95
32) 4-Chloro-3-methylphenol	7.82	107	236370	39.96 ng/µl	82
33) 2-Methylnaphthalene	8.08	142	399334m	38.84 ng/µl	
35) Hexachlorocyclopentadiene	8.43	237	199495	37.64 ng/µl	87
36) 2,4,6-Trichlorophenol	8.56	196	152576	38.08 ng/µl	94
37) 2,4,5-Trichlorophenol	8.63	196	144455	35.91 ng/µl	91
39) 1,1'-Biphenyl	8.84	154	539489	38.18 ng/µl	100
40) 2-Chloronaphthalene	8.87	162	421079	38.19 ng/µl	96
41) 2-Nitroaniline	9.08	65	176362	39.33 ng/µl	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60705L.MIZ\A08212.D Vial: 4
Acq On : 5 Jul 2011 6:57 pm Operator: MIZ
Sample : BNA MIX 1&2 080 Inst : DEL6
Misc : 7/5/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 06 08:06:31 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Tue Jul 05 16:12:40 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

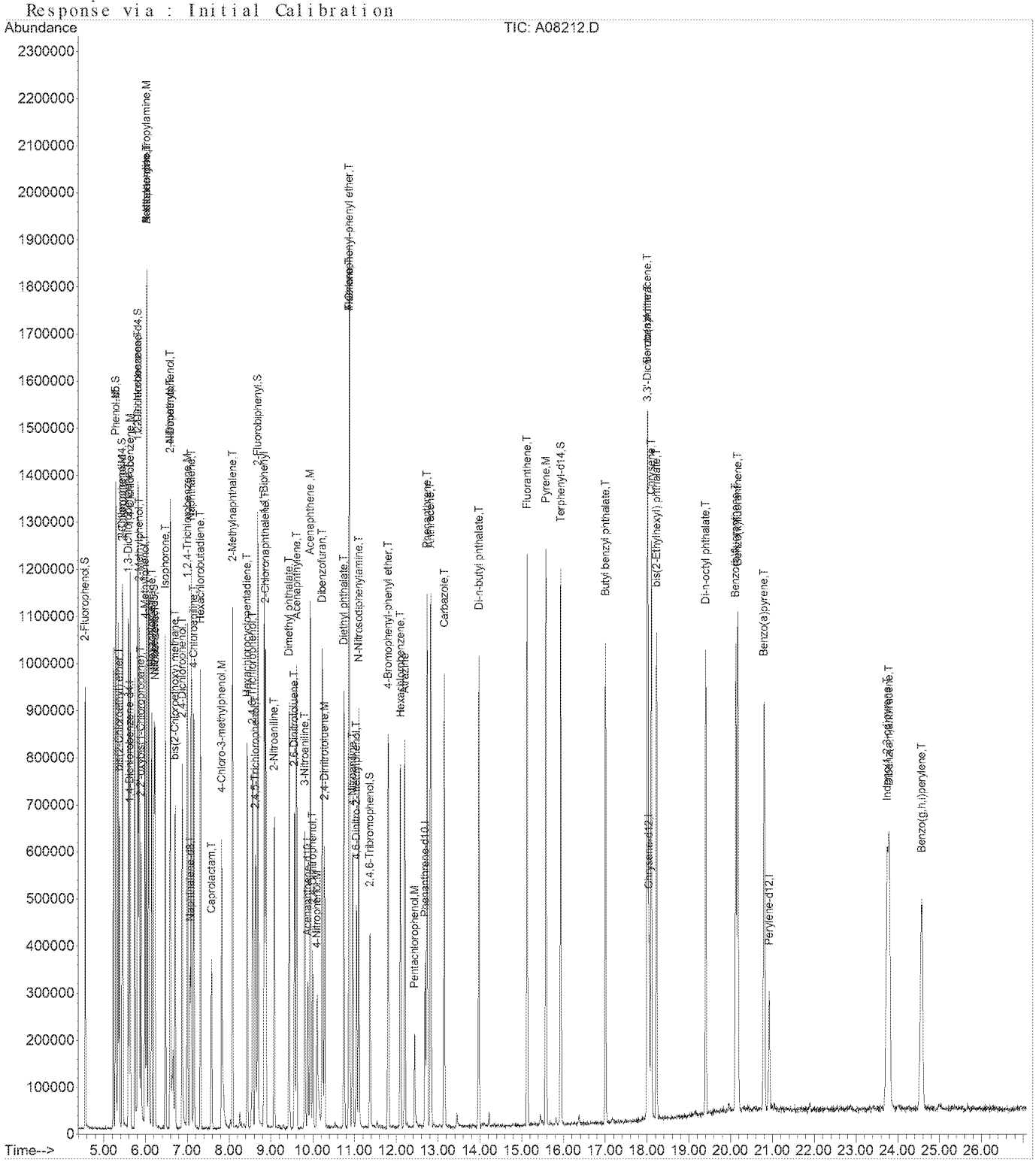
Compound	R.T.	Qion	Response	Conc Unit	Qvalue
42) Acenaphthylene	9.62	152	647431	37.71 ng/µl	97
43) Dimethyl phthalate	9.44	163	487883	37.87 ng/µl	89
44) 2,6-Dinitrotoluene	9.57	165	113255	38.84 ng/µl	83
45) 3-Nitroaniline	9.81	138	120199	40.86 ng/µl	88
46) Acenaphthene	9.94	153	402005	38.04 ng/µl	98
47) 2,4-Dinitrophenol	10.00	184	77072	40.24 ng/µl	91
48) Dibenzofuran	10.23	168	571156	37.05 ng/µl	97
49) 4-Nitrophenol	10.11	109	105026	37.74 ng/µl #	46
50) 2,4-Dinitrotoluene	10.28	165	156251	40.04 ng/µl	93
51) Fluorene	10.88	166	486882	38.60 ng/µl	95
52) Diethyl phthalate	10.75	149	467907	37.57 ng/µl	95
53) 4-Chlorophenyl-phenyl ethe	10.87	204	269271	37.10 ng/µl	89
54) 4-Nitroaniline	10.96	138	112228	41.68 ng/µl	95
57) 4,6-Dinitro-2-methylphenol	11.05	198	100722	38.20 ng/µl	88
58) N-Nitrosodiphenylamine	11.10	169	358633	37.08 ng/µl	96
59) 4-Bromophenyl-phenyl ether	11.81	248	154927	35.69 ng/µl	90
60) Atrazine	12.20	200	171014	38.75 ng/µl	98
61) Hexachlorobenzene	12.10	284	151793	38.16 ng/µl	93
62) Pentachlorophenol	12.44	266	34394	50.92 ng/µl	94
63) Phenanthrene	12.73	178	722651	37.69 ng/µl	99
64) Anthracene	12.82	178	729586	38.22 ng/µl	93
65) Carbazole	13.15	167	631563	39.14 ng/µl	97
66) Di-n-butyl phthalate	13.97	149	763340	37.38 ng/µl	95
67) Fluoranthene	15.13	202	849320	40.40 ng/µl	86
69) Pyrene	15.58	202	888896	39.18 ng/µl	82
71) Butyl benzyl phthalate	17.00	149	342707	39.67 ng/µl	91
72) Benzo(a)Anthracene	18.02	228	803044	39.30 ng/µl	98
73) 3,3'-Dichlorobenzidine	18.00	252	273007	40.46 ng/µl	82
74) Chrysene	18.10	228	757887	39.54 ng/µl	95
75) bis(2-Ethylhexyl) phthalat	18.23	149	460919	37.79 ng/µl	96
77) Di-n-octyl phthalate	19.40	149	772491	37.85 ng/µl	98
78) Benzo(b)fluoranthene	20.12	252	827329	39.60 ng/µl	95
79) Benzo(k)fluoranthene	20.17	252	763649	38.87 ng/µl	98
80) Benzo(a)pyrene	20.81	252	805211	40.02 ng/µl #	83
81) Indeno(1,2,3-cd)pyrene	23.74	276	820957	39.58 ng/µl	86
82) Dibenz(a,h)anthracene	23.79	278	660276	37.97 ng/µl	92
83) Benzo(g,h,i)perylene	24.57	276	694547	38.10 ng/µl	99

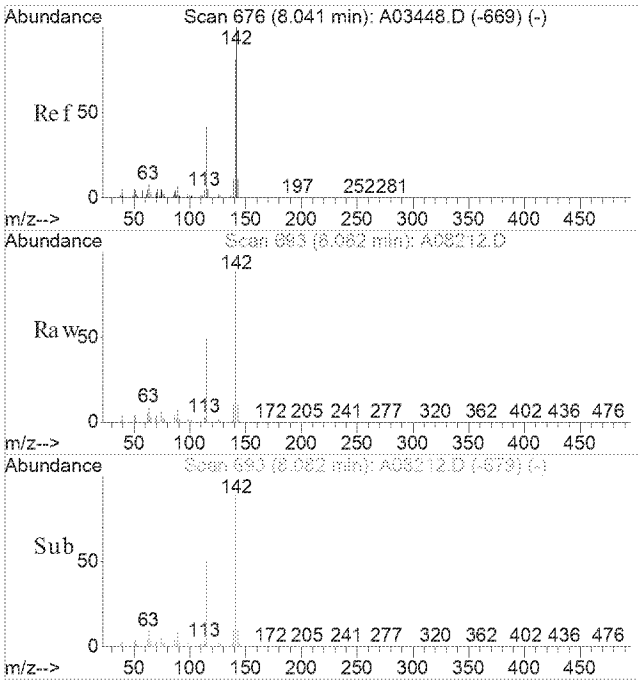
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60705L.MIZ\A08212.D Vial: 4
Acq On : 5 Jul 2011 6:57 pm Operator: MIZ
Sample : BNA MIX 1&2 080 Inst : DEL6
Msc : 7/5/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 6 8:37 2011 Quant Results File: I60705B.RES

Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration

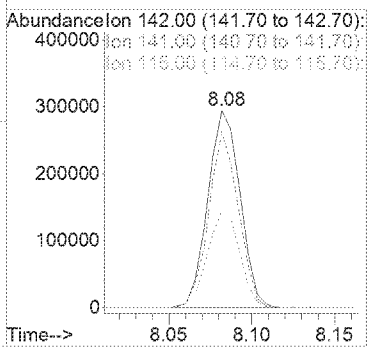




#33
2-Methylnaphthalene
Concen: 38.84 ng/µl m
RT: 8.08 min Scan# 693
Delta R.T. -0.18 min
Lab File: A08212.D
Acq: 5 Jul 2011 6:57 pm

Tgt Ion: 142 Resp: 399334

Ion	Ratio	Lower	Upper
142	100		
141	89.2	62.4	102.4
115	49.7	12.7	52.7



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60705L.MIZ\A08211.D Vial: 5
Acq On : 5 Jul 2011 6:20 pm Operator: MIZ
Sample : BNA MIX 1&2 120 Inst : DEL6
Misc : 7/5/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 06 08:06:31 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Tue Jul 05 16:12:40 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	48198	20.00 ng/µl	-0.01
19) Naphthalene-d8	7.05	136	182475	20.00 ng/µl	-0.02
34) Acenaphthene-d10	9.86	164	112756	20.00 ng/µl	-0.02
56) Phenanthrene-d10	12.67	188	221963	20.00 ng/µl	-0.02
68) Chrysene-d12	18.03	240	207265	20.00 ng/µl	-0.02
76) Perylene-d12	20.89	264	188407	20.00 ng/µl	-0.03
System Monitoring Compounds					
2) 2-Fluorophenol	4.55	112	374538	62.64 ng/µl	-0.01
Spiked Amount 75.000	Range 21 - 110		Recovery = 83.52%		
4) Phenol-d5	5.27	99	546594	62.08 ng/µl	-0.01
Spiked Amount 75.000	Range 10 - 110		Recovery = 82.77%		
6) 2-Chlorophenol-d4	5.43	132	346188	60.19 ng/µl	-0.01
Spiked Amount 75.000	Range 33 - 110		Recovery = 80.25%		
11) 1,2-Dichlorobenzene-d4	5.80	152	254871	59.68 ng/µl	-0.02
Spiked Amount 50.000	Range 16 - 110		Recovery = 119.36%#		
20) Nitrobenzene-d5	6.20	82	585327	62.58 ng/µl	-0.01
Spiked Amount 50.000	Range 34 - 114		Recovery = 125.16%#		
38) 2-Fluorobiphenyl	8.67	172	996958	63.23 ng/µl	-0.02
Spiked Amount 50.000	Range 43 - 116		Recovery = 126.46%#		
55) 2,4,6-Tribromophenol	11.36	330	96009	68.98 ng/µl	-0.02
Spiked Amount 75.000	Range 10 - 123		Recovery = 91.97%		
70) Terphenyl-d14	15.91	244	895364	62.43 ng/µl	-0.02
Spiked Amount 50.000	Range 33 - 141		Recovery = 124.86%		

Target Compounds					Qvalue
3) Benzaldehyde	6.01	105	645354	63.11 ng/µl	94
5) Phenol	5.28	94	549901	62.88 ng/µl	86
7) 2-Chlorophenol	5.44	128	347257	62.57 ng/µl	96
8) bis(2-Chloroethyl) ether	5.36	93	410938	63.31 ng/µl	83
9) 1,3-Dichlorobenzene	5.58	146	409983	62.58 ng/µl	93
10) 1,4-Dichlorobenzene	5.62	146	409167	60.23 ng/µl	91
12) 1,2-Dichlorobenzene	5.81	146	375049	60.23 ng/µl	96
13) 2-Methylphenol	5.84	108	361908	60.57 ng/µl	92
14) 2,2'-oxybis(1-Chloropropan	5.88	45	246352	62.30 ng/µl #	34
15) Hexachloroethane	6.13	117	161098	58.81 ng/µl #	62
16) Acetophenone	6.01	105	645354	63.11 ng/µl	93
17) 4-Methylphenol	5.98	108	365897	61.41 ng/µl	86
18) N-Nitroso-di-n-propylamine	6.02	70	371884	62.86 ng/µl #	66
21) Nitrobenzene	6.21	77	562345	61.39 ng/µl	85
22) Isophorone	6.46	82	962662	62.47 ng/µl	86
23) 2-Nitrophenol	6.58	139	197125	60.58 ng/µl #	69
24) 2,4-Dimethylphenol	6.58	107	290727	60.26 ng/µl	95
25) bis(2-Chloroethoxy) methan	6.70	93	489598	62.15 ng/µl	92
26) 2,4-Dichlorophenol	6.86	162	312821	61.52 ng/µl	92
27) 1,2,4-Trichlorobenzene	6.99	180	393386	61.73 ng/µl	92
28) Naphthalene	7.08	128	1072006	62.81 ng/µl	95
29) 4-Chloroaniline	7.14	127	452344	63.38 ng/µl	94
30) Hexachlorobutadiene	7.30	225	271299	61.14 ng/µl	93
31) Caprolactam	7.58	113	130477	64.59 ng/µl	99
32) 4-Chloro-3-methylphenol	7.80	107	392704	62.96 ng/µl	82
33) 2-Methylnaphthalene	8.07	142	672243m	62.00 ng/µl	
35) Hexachlorocyclopentadiene	8.42	237	336981	60.32 ng/µl	91
36) 2,4,6-Trichlorophenol	8.55	196	269765	63.88 ng/µl	92
37) 2,4,5-Trichlorophenol	8.62	196	265089	62.52 ng/µl	98
39) 1,1'-Biphenyl	8.82	154	902505	60.60 ng/µl	100
40) 2-Chloronaphthalene	8.86	162	713169	61.36 ng/µl	97
41) 2-Nitroaniline	9.06	65	283860	60.05 ng/µl	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60705L.MIZ\A08211.D Vial: 5
Acq On : 5 Jul 2011 6:20 pm Operator: MIZ
Sample : BNA MIX 1&2 120 Inst : DEL6
Misc : 7/5/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 06 08:06:31 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Tue Jul 05 16:12:40 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

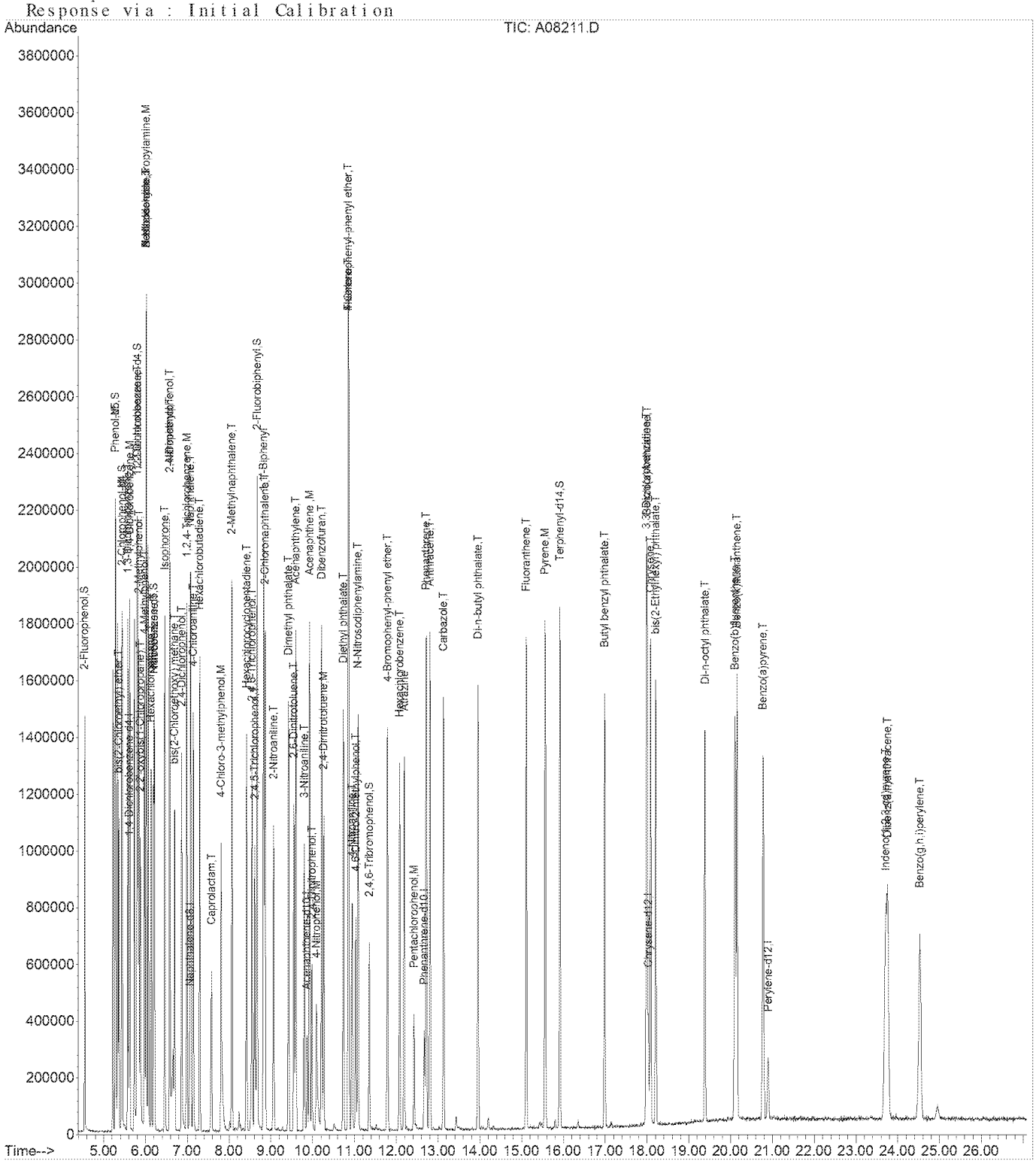
Compound	R.T.	Qion	Response	Conc Unit	Qvalue
42) Acenaphthylene	9.59	152	1099439	60.75 ng/µl	98
43) Dimethyl phthalate	9.42	163	837303	61.66 ng/µl	87
44) 2,6-Dinitrotoluene	9.55	165	192650	62.67 ng/µl	98
45) 3-Nitroaniline	9.80	138	183025	59.03 ng/µl #	64
46) Acenaphthene	9.93	153	668703	60.04 ng/µl	92
47) 2,4-Dinitrophenol	9.98	184	121320	60.09 ng/µl	91
48) Dibenzofuran	10.21	168	1000901	61.59 ng/µl	94
49) 4-Nitrophenol	10.09	109	176730	60.25 ng/µl #	34
50) 2,4-Dinitrotoluene	10.27	165	255996	62.24 ng/µl	86
51) Fluorene	10.86	166	820495	61.71 ng/µl	90
52) Diethyl phthalate	10.74	149	812854	61.92 ng/µl	93
53) 4-Chlorophenyl-phenyl ethe	10.85	204	454321	59.38 ng/µl	88
54) 4-Nitroaniline	10.95	138	172699	60.84 ng/µl	88
57) 4,6-Dinitro-2-methylphenol	11.04	198	169716	64.61 ng/µl	85
58) N-Nitrosodiphenylamine	11.08	169	578850	60.08 ng/µl	92
59) 4-Bromophenyl-phenyl ether	11.79	248	256494	59.32 ng/µl	87
60) Atrazine	12.19	200	277372	63.09 ng/µl	99
61) Hexachlorobenzene	12.08	284	235426	59.41 ng/µl	78
62) Pentachlorophenol	12.43	266	69729	103.62 ng/µl	83
63) Phenanthrene	12.72	178	1131529	59.24 ng/µl	96
64) Anthracene	12.80	178	1147951	60.36 ng/µl	95
65) Carbazole	13.13	167	969691	60.32 ng/µl	97
66) Di-n-butyl phthalate	13.96	149	1247834	61.33 ng/µl	97
67) Fluoranthene	15.11	202	1240844	59.25 ng/µl	86
69) Pyrene	15.56	202	1304273	62.58 ng/µl	83
71) Butyl benzyl phthalate	16.99	149	507176	63.90 ng/µl	93
72) Benzo(a)Anthracene	18.00	228	1138930	60.68 ng/µl	97
73) 3,3'-Dichlorobenzidine	17.98	252	363312	58.61 ng/µl	94
74) Chrysene	18.08	228	1051874	59.74 ng/µl	96
75) bis(2-Ethylhexyl) phthalat	18.21	149	679203m	60.62 ng/µl	
77) Di-n-octyl phthalate	19.39	149	1134119	59.31 ng/µl	100
78) Benzo(b)fluoranthene	20.10	252	1149921	58.75 ng/µl	92
79) Benzo(k)fluoranthene	20.15	252	1070311	58.16 ng/µl	98
80) Benzo(a)pyrene	20.78	252	1115071	59.16 ng/µl	84
81) Indeno(1,2,3-cd)pyrene	23.70	276	1129202	58.12 ng/µl	87
82) Dibenz(a,h)anthracene	23.75	278	931408	57.17 ng/µl	96
83) Benzo(g,h,i)perylene	24.53	276	941973	55.16 ng/µl	95

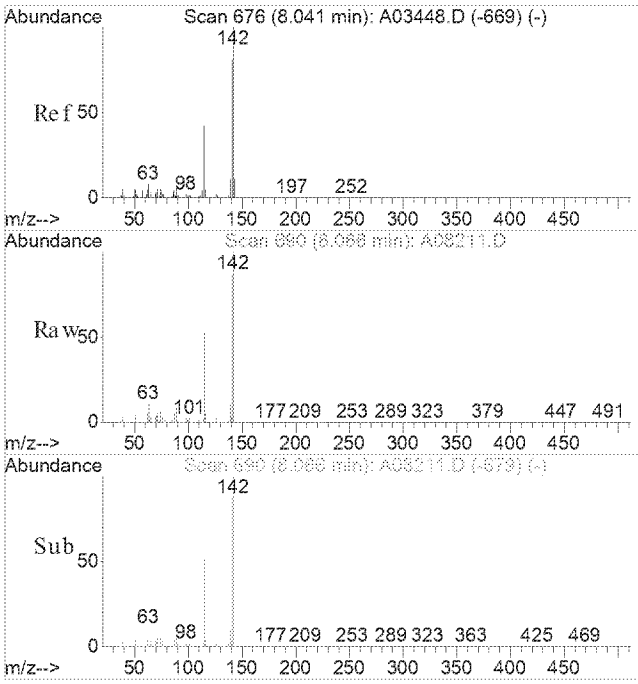
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM.1\DATA\MS60705L.MIZ\A08211.D Vial: 5
Acq On : 5 Jul 2011 6:20 pm Operator: MIZ
Sample : BNA MIX 1&2 120 Inst : DEL6
Msc : 7/5/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 6 11:45 2011 Quant Results File: I60705B.RES

Method : C:\MSDCHEM.1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration

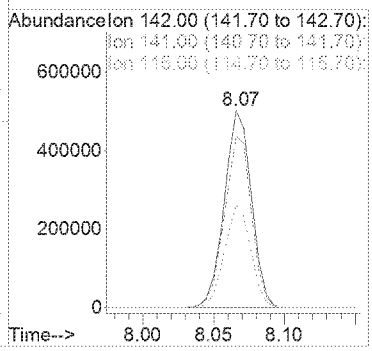


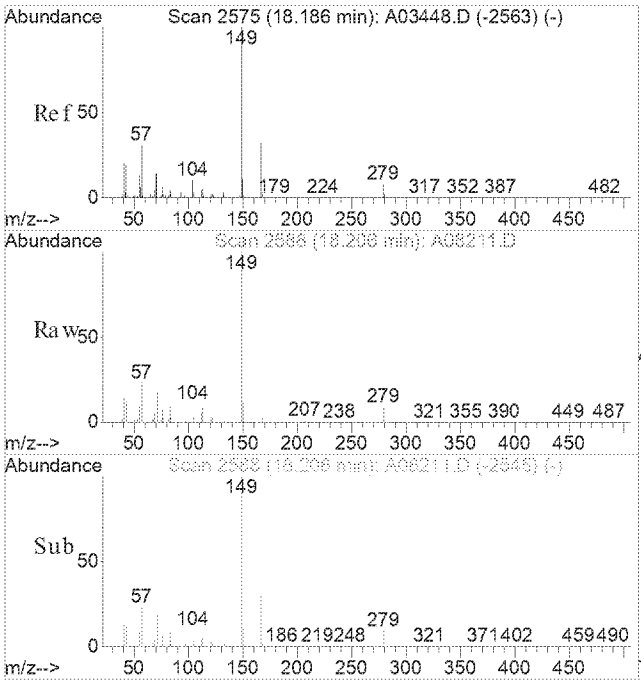


#33
2-Methylnaphthalene
Concen: 62.00 ng/µl m
RT: 8.07 min Scan# 690
Delta R.T. -0.19 min
Lab File: A08211.D
Acq: 5 Jul 2011 6:20 pm

Tgt Ion: 142 Resp: 672243

Ion	Ratio	Lower	Upper
142	100		
141	87.1	62.4	102.4
115	52.2	12.7	52.7

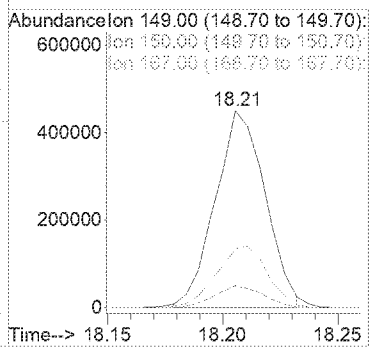




#75
bis(2-Ethylhexyl) phthalate
Concen: 60.62 ng/µl m
RT: 18.21 min Scan# 2588
Delta R.T. -0.02 min
Lab File: A08211.D
Acq: 5 Jul 2011 6:20 pm

Tgt Ion: 149 Resp: 679203

Ion	Ratio	Lower	Upper
149	100		
150	11.2	0.0	30.8
167	29.9	11.3	51.3



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60705L.MIZ\A08210.D Vial: 6
Acq On : 5 Jul 2011 5:43 pm Operator: MIZ
Sample : BNA MX 1&2 160 Inst : DEL6
Misc : 7/5/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 06 08:06:30 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Tue Jul 05 16:12:40 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	45664	20.00 ng/µl	0.00
19) Naphthalene-d8	7.07	136	166208	20.00 ng/µl	0.00
34) Acenaphthene-d10	9.89	164	121356	20.00 ng/µl	0.00
56) Phenanthrene-d10	12.69	188	258691	20.00 ng/µl	0.00
68) Chrysene-d12	18.06	240	288978	20.00 ng/µl	0.00
76) Perylene-d12	20.94	264	295721	20.00 ng/µl	0.01
System Monitoring Compounds					
2) 2-Fluorophenol	4.56	112	477282	84.25 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 112.33%#		
4) Phenol-d5	5.29	99	707749	84.84 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 113.12%#		
6) 2-Chlorophenol-d4	5.44	132	446722	81.97 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 109.29%		
11) 1,2-Dichlorobenzene-d4	5.81	152	333538	82.43 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 164.86%#		
20) Nitrobenzene-d5	6.21	82	736756	86.48 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 172.96%#		
38) 2-Fluorobiphenyl	8.69	172	1254973	73.95 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 147.90%#		
55) 2,4,6-Tribromophenol	11.38	330	148859	99.38 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 132.51%#		
70) Terphenyl-d14	15.93	244	1547530	77.39 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 154.78%#		
Target Compounds					Qvalue
3) Benzaldehyde	6.03	105	830523	85.72 ng/µl	100
5) Phenol	5.30	94	668766	80.71 ng/µl	87
7) 2-Chlorophenol	5.46	128	423752	80.59 ng/µl	97
8) bis(2-Chloroethyl) ether	5.38	93	482402	78.45 ng/µl #	77
9) 1,3-Dichlorobenzene	5.59	146	513614	82.75 ng/µl	97
10) 1,4-Dichlorobenzene	5.64	146	525253	81.61 ng/µl	91
12) 1,2-Dichlorobenzene	5.83	146	487140	82.57 ng/µl	93
13) 2-Methylphenol	5.85	108	458948	81.07 ng/µl	95
14) 2,2'-oxybis(1-Chloropropan	5.89	45	288338	76.97 ng/µl #	28
15) Hexachloroethane	6.15	117	210931	81.28 ng/µl #	58
16) Acetophenone	6.03	105	830523	85.72 ng/µl #	96
17) 4-Methylphenol	5.99	108	481708	85.33 ng/µl	88
18) N-Nitroso-di-n-propylamine	6.04	70	460432	82.14 ng/µl #	72
21) Nitrobenzene	6.23	77	712733	85.42 ng/µl	86
22) Isophorone	6.48	82	1242499	88.52 ng/µl	88
23) 2-Nitrophenol	6.60	139	260643	87.94 ng/µl #	75
24) 2,4-Dimethylphenol	6.59	107	359248	81.75 ng/µl	99
25) bis(2-Chloroethoxy) methan	6.71	93	599743	83.59 ng/µl	93
26) 2,4-Dichlorophenol	6.88	162	420536	90.80 ng/µl	89
27) 1,2,4-Trichlorobenzene	7.00	180	492693	84.88 ng/µl	91
28) Naphthalene	7.10	128	1324855	85.22 ng/µl	92
29) 4-Chloroaniline	7.16	127	567935	87.36 ng/µl	92
30) Hexachlorobutadiene	7.31	225	348376	86.20 ng/µl	89
31) Caprolactam	7.61	113	172097	93.53 ng/µl	92
32) 4-Chloro-3-methylphenol	7.83	107	513877	90.45 ng/µl	83
33) 2-Methylnaphthalene	8.08	142	870497	88.15 ng/µl	90
35) Hexachlorocyclopentadiene	8.43	237	435519	72.44 ng/µl	92
36) 2,4,6-Trichlorophenol	8.57	196	347897	76.54 ng/µl	89
37) 2,4,5-Trichlorophenol	8.63	196	383340	84.00 ng/µl	98
39) 1,1'-Biphenyl	8.85	154	1216535	75.89 ng/µl	100
40) 2-Chloronaphthalene	8.88	162	943302	75.41 ng/µl	99
41) 2-Nitroaniline	9.09	65	393046	77.26 ng/µl	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60705L.MIZ\A08210.D Vial: 6
Acq On : 5 Jul 2011 5:43 pm Operator: MIZ
Sample : BNA MIX 1&2 160 Inst : DEL6
Misc : 7/5/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 06 08:06:30 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Tue Jul 05 16:12:40 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

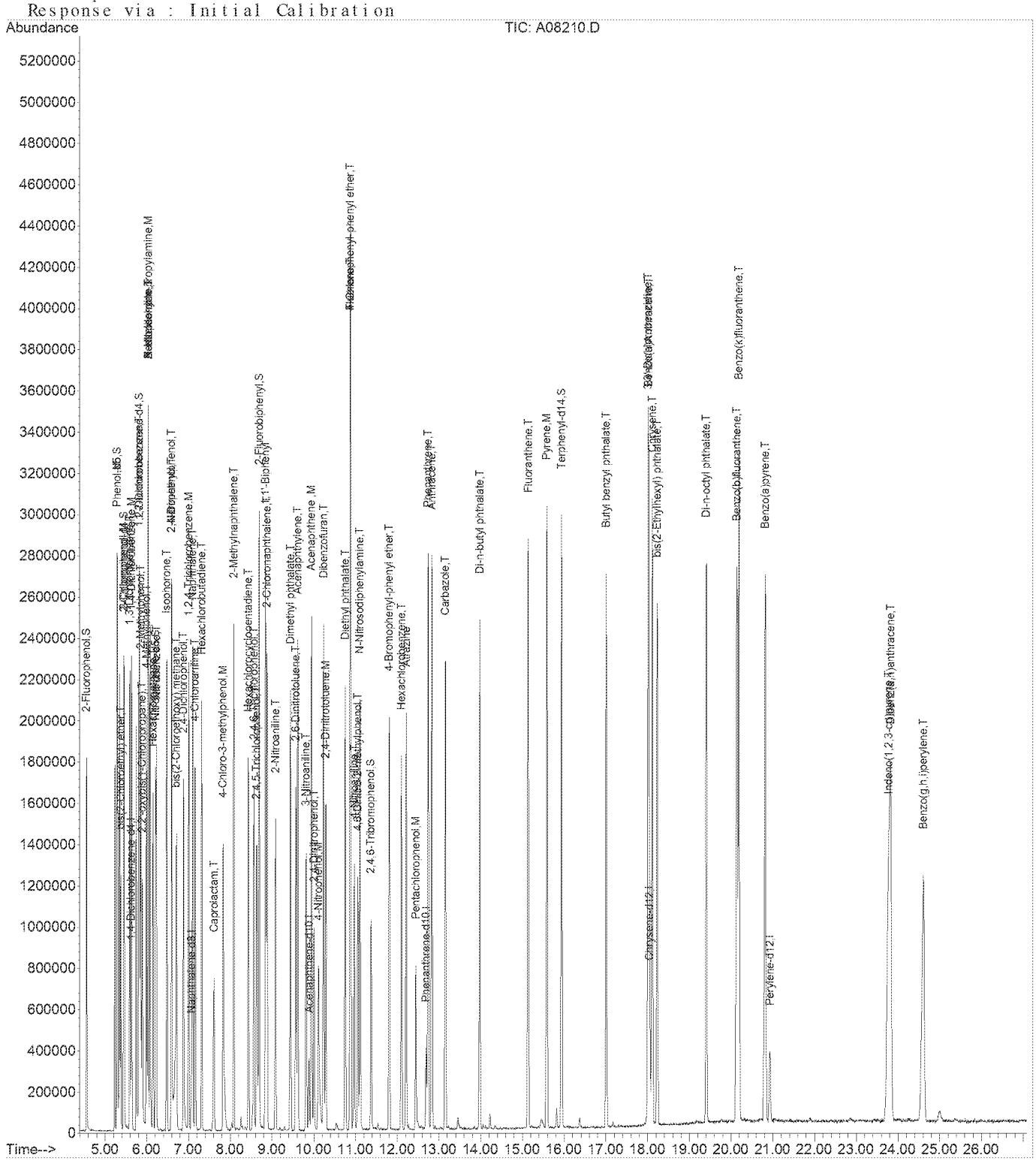
Compound	R.T.	Qion	Response	Conc Unit	Qvalue
42) Acenaphthylene	9.62	152	1511054	77.57 ng/µl	95
43) Dimethyl phthalate	9.44	163	1177792	80.59 ng/µl	82
44) 2,6-Dinitrotoluene	9.57	165	289140	87.40 ng/µl	98
45) 3-Nitroaniline	9.82	138	271463	81.34 ng/µl	87
46) Acenaphthene	9.95	153	936637	78.13 ng/µl	94
47) 2,4-Dinitrophenol	10.00	184	210590	96.92 ng/µl	98
48) Dibenzofuran	10.23	168	1399956	80.04 ng/µl	98
49) 4-Nitrophenol	10.11	109	289745	91.78 ng/µl #	38
50) 2,4-Dinitrotoluene	10.29	165	382983	86.51 ng/µl	95
51) Fluorene	10.88	166	1159350	81.01 ng/µl	93
52) Diethyl phthalate	10.75	149	1162975	82.31 ng/µl	93
53) 4-Chlorophenyl-phenyl ethe	10.87	204	650346	78.98 ng/µl	82
54) 4-Nitroaniline	10.97	138	272918	89.33 ng/µl	83
57) 4,6-Dinitro-2-methylphenol	11.06	198	287039	93.77 ng/µl	88
58) N-Nitrosodiphenylamine	11.11	169	871653	77.62 ng/µl	96
59) 4-Bromophenyl-phenyl ether	11.81	248	372293	73.87 ng/µl	86
60) Atrazine	12.22	200	433884	84.68 ng/µl	97
61) Hexachlorobenzene	12.10	284	356939	77.29 ng/µl	80
62) Pentachlorophenol	12.44	266	145236	185.19 ng/µl	87
63) Phenanthrene	12.74	178	1794862	80.62 ng/µl	98
64) Anthracene	12.83	178	1843479	83.17 ng/µl	96
65) Carbazole	13.15	167	1575830	84.11 ng/µl	98
66) Di-n-butyl phthalate	13.98	149	1943132	81.94 ng/µl	96
67) Fluoranthene	15.14	202	2095571	85.85 ng/µl	89
69) Pyrene	15.59	202	2234470	76.90 ng/µl	83
71) Butyl benzyl phthalate	17.01	149	853417	77.12 ng/µl	86
72) Benzo(a)Anthracene	18.03	228	2121215	81.06 ng/µl	100
73) 3,3'-Dichlorobenzidine	18.01	252	638882	73.93 ng/µl	89
74) Chrysene	18.11	228	2038009	83.01 ng/µl	96
75) bis(2-Ethylhexyl) phthalat	18.23	149	1164663	74.55 ng/µl	98
77) Di-n-octyl phthalate	19.41	149	2082439	69.39 ng/µl	99
78) Benzo(b)fluoranthene	20.14	252	2537519	82.60 ng/µl	93
79) Benzo(k)fluoranthene	20.19	252	2422061	83.85 ng/µl	96
80) Benzo(a)pyrene	20.82	252	2405768	81.32 ng/µl	84
81) Indeno(1,2,3-cd)pyrene	23.77	276	2320957	76.11 ng/µl	84
82) Dibenz(a,h)anthracene	23.83	278	1951924	76.34 ng/µl	94
83) Benzo(g,h,i)perylene	24.61	276	1910959	71.29 ng/µl	97

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

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60705L.MIZ\A08210.D Vial: 6
Acq On : 5 Jul 2011 5:43 pm Operator: MIZ
Sample : BNA MIX 1&2 160 Inst : DEL6
Misc : 7/5/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 6 8:06 2011 Quant Results File: I60705B.RES

Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\MS60706L.MIZ\A08219.D Vial: 3
Acq On : 6 Jul 2011 12:04 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 7/6/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P

Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	76	0.00
2	S	2-Fluorophenol	2.454	2.856	-16.4	90	0.00
3	T	Benzaldehyde	4.149	4.451	-7.3	78	0.00
4	S	Phenol-d5	3.539	3.887	-9.8	81	0.00
5	M	Phenol	3.531	3.815	-8.0	78	0.00
6	S	2-Chlorophenol-d4	2.318	2.601	-12.2	82	0.00
7	M	2-Chlorophenol	2.270	2.417	-6.5	81	0.00
8	T	bis(2-Chloroethyl) ether	2.589	2.781	-7.4	83	0.00
9	T	1,3-Dichlorobenzene	2.670	2.922	-9.4	82	0.00
10	M	1,4-Dichlorobenzene	2.772	3.051	-10.1	82	0.00
11	S	1,2-Dichlorobenzene-d4	1.713	2.023	-18.1	91	0.00
12	T	1,2-Dichlorobenzene	2.518	2.763	-9.7	80	0.00
13	T	2-Methylphenol	2.341	2.559	-9.3	82	0.00
14	T	2,2'-oxybis(1-Chloropropane	1.558	1.751	-12.4	81	0.00
15	T	Hexachloroethane	1.116	1.247	-11.7	81	0.00
16	T	Acetophenone	4.149	4.451	-7.3	78	0.00
17	T	4-Methylphenol	2.476	2.435	1.7	71	0.00
18	M	N-Nitroso-di-n-propylamine	2.345	2.604	-11.0	80	0.00
19	I	Naphthalene-d8	1.000	1.000	0.0	78	0.00
20	S	Nitrobenzene-d5	1.067	1.126	-5.5	78	0.00
21	T	Nitrobenzene	1.034	1.099	-6.3	79	0.00
22	T	Isophorone	1.738	1.822	-4.8	78	0.00
23	T	2-Nitrophenol	0.376	0.399	-6.1	77	0.00
24	T	2,4-Dimethylphenol	0.546	0.507	7.1	78	0.00
25	T	bis(2-Chloroethoxy) methane	0.877	0.928	-5.8	79	0.00
26	T	2,4-Dichlorophenol	0.569	0.616	-8.3	82	0.00
27	M	1,2,4-Trichlorobenzene	0.714	0.716	-0.3	73	0.00
28	T	Naphthalene	1.915	2.004	-4.6	78	0.00
29	T	4-Chloroaniline	0.812	0.858	-5.7	77	0.00
30	T	Hexachlorobutadiene	0.495	0.520	-5.1	80	0.00
31	T	Caprolactam	0.246	0.258	-4.9	74	-0.01
32	M	4-Chloro-3-methylphenol	0.715	0.660	7.7	66	0.00
33	T	2-Methylnaphthalene	1.226	1.240	-1.1	75	0.00
34	I	Acenaphthene-d10	1.000	1.000	0.0	75	0.00
35	T	Hexachlorocyclopentadiene	0.943	1.048	-11.1	84	0.00
36	T	2,4,6-Trichlorophenol	0.754	0.822	-9.0	77	0.00
37	T	2,4,5-Trichlorophenol	0.758	0.783	-3.3	72	0.00
38	S	2-Fluorobiphenyl	2.778	2.994	-7.8	77	-0.01
39		1,1'-Biphenyl	2.612	2.711	-3.8	76	0.00
40	T	2-Chloronaphthalene	2.039	2.164	-6.1	77	-0.01
41	T	2-Nitroaniline	0.851	0.893	-4.9	73	0.00
42	T	Acenaphthylene	3.186	3.482	-9.3	78	0.00
43	T	Dimethyl phthalate	2.446	2.674	-9.3	76	-0.01
44	T	2,6-Dinitrotoluene	0.565	0.613	-8.5	77	0.00
45	T	3-Nitroaniline	0.560	0.620	-10.7	75	0.00
46	M	Acenaphthene	1.968	2.068	-5.1	74	-0.01
47	T	2,4-Dinitrophenol	0.368	0.347	5.7	69	0.00
48	T	Dibenzofuran	2.883	3.104	-7.7	75	0.00
49	M	4-Nitrophenol	0.530	0.555	-4.7	66	0.00
50	M	2,4-Dinitrotoluene	0.768	0.856	-11.5	77	0.00
51	T	Fluorene	2.384	2.659	-11.5	77	-0.01
52	T	Diethyl phthalate	2.363	2.525	-6.9	73	0.00
53	T	4-Chlorophenyl-phenyl ether	1.347	1.467	-8.9	77	0.00
54	T	4-Nitroaniline	0.535	0.601	-12.3	79	-0.01
55	S	2,4,6-Tribromophenol	0.278	0.296	-6.5	71	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\MS60706L.MIZ\A08219.D Vial: 3
Acq On : 6 Jul 2011 12:04 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 7/6/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P

Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
56	I	Phenanthrene-d10	1.000	1.000	0.0	68	0.00
57	T	4,6-Dinitro-2-methylphenol	0.245	0.275	-12.2	76	0.00
58	T	N-Nitrosodiphenylamine	0.851	0.956	-12.3	74	-0.01
59	T	4-Bromophenyl-phenyl ether	0.367	0.435	-18.5	77	-0.01
60		Atrazine	0.407	0.468	-15.0	77	-0.01
61	T	Hexachlorobenzene	0.357	0.398	-11.5	74	0.00
62	M	Pentachlorophenol	0.101	0.076	24.8	64	-0.01
63	T	Phenanthrene	1.704	1.994	-17.0	76	0.00
64	T	Anthracene	1.733	1.979	-14.2	74	-0.01
65	T	Carbazole	1.490	1.766	-18.5	77	0.00
66	T	Di-n-butyl phthalate	1.839	2.191	-19.1	78	0.00
67	T	Fluoranthene	1.955	2.273	-16.3	74	0.00
68	I	Chrysene-d12	1.000	1.000	0.0	74	0.00
69	M	Pyrene	1.969	2.135	-8.4	76	0.00
70	S	Terphenyl-d14	1.368	1.543	-12.8	79	-0.01
71	T	Butyl benzyl phthalate	0.759	0.828	-9.1	75	0.00
72	T	Benzo(a)Anthracene	1.828	1.944	-6.3	74	0.00
73	T	3,3'-Dichlorobenzidine	0.608	0.748	-23.0	82	0.00
74	T	Chrysene	1.719	1.907	-10.9	77	0.00
75	T	bis(2-Ethylhexyl) phthalate	1.039	1.148	-10.5	79	0.00
76	I	Perylene-d12	1.000	1.000	0.0	70	0.00
77	T	Di-n-octyl phthalate	1.950	2.259	-15.8	76	0.00
78	T	Benzo(b)fluoranthene	2.049	2.310	-12.7	80	-0.01
79	T	Benzo(k)fluoranthene	1.938	2.312	-19.3	84	-0.01
80	T	Benzo(a)pyrene	2.000	2.128	-6.4	72	0.00
81	T	Indeno(1,2,3-cd)pyrene	2.042	2.415	-18.3	77	-0.02
82	T	Dibenz(a,h)anthracene	1.668	2.024	-21.3	76	0.00
83	T	Benzo(g,h,i)perylene	1.706	2.077	-21.7	79	-0.02

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60706L.MIZ\A08219.D Vial: 3
Acq On : 6 Jul 2011 12:04 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 7/6/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 06 12:44:21 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	46500	20.00 ng/µl	0.00
19) Naphthalene-d8	7.06	136	171661	20.00 ng/µl	0.00
34) Acenaphthene-d10	9.88	164	109347	20.00 ng/µl	0.00
56) Phenanthrene-d10	12.69	188	216631	20.00 ng/µl	0.00
68) Chrysene-d12	18.05	240	249582	20.00 ng/µl	0.00
76) Perylene-d12	20.91	264	217370	20.00 ng/µl	0.00
System Monitoring Compounds					
2) 2-Fluorophenol	4.55	112	165991	29.09 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 38.79%		
4) Phenol-d5	5.28	99	225951	27.46 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 36.61%		
6) 2-Chlorophenol-d4	5.44	132	151166	28.05 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 37.40%		
11) 1,2-Dichlorobenzene-d4	5.81	152	117612	29.53 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 59.06%		
20) Nitrobenzene-d5	6.20	82	241714	26.40 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 52.80%		
38) 2-Fluorobiphenyl	8.68	172	409207	26.94 ng/µl	-0.01
Spiked Amount 50.000	Range 43 - 116		Recovery = 53.88%		
55) 2,4,6-Tribromophenol	11.37	330	40423	26.61 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 35.48%		
70) Terphenyl-d14	15.92	244	481339	28.21 ng/µl	-0.01
Spiked Amount 50.000	Range 33 - 141		Recovery = 56.42%		

Target Compounds					Qvalue
3) Benzaldehyde	6.03	105	258725	26.82 ng/µl	94
5) Phenol	5.29	94	221767	27.01 ng/µl	87
7) 2-Chlorophenol	5.45	128	140497	26.63 ng/µl	92
8) bis(2-Chloroethyl) ether	5.37	93	161665	26.86 ng/µl #	81
9) 1,3-Dichlorobenzene	5.59	146	169840	27.36 ng/µl	93
10) 1,4-Dichlorobenzene	5.64	146	177336	27.51 ng/µl	94
12) 1,2-Dichlorobenzene	5.82	146	160596	27.43 ng/µl	97
13) 2-Methylphenol	5.84	108	148756	27.32 ng/µl	91
14) 2,2'-oxybis(1-Chloropropan	5.89	45	101790	28.09 ng/µl #	41
15) Hexachloroethane	6.14	117	72454	27.91 ng/µl #	68
16) Acetophenone	6.03	105	258725	26.82 ng/µl	93
17) 4-Methylphenol	5.98	108	141549	24.59 ng/µl	89
18) N-Nitroso-di-n-propylamine	6.03	70	151345	27.75 ng/µl #	71
21) Nitrobenzene	6.22	77	235774	26.55 ng/µl	86
22) Isophorone	6.47	82	390962	26.22 ng/µl	88
23) 2-Nitrophenol	6.59	139	85556	26.52 ng/µl #	67
24) 2,4-Dimethylphenol	6.59	107	108794	23.23 ng/µl	95
25) bis(2-Chloroethoxy) methan	6.70	93	199021	26.43 ng/µl	95
26) 2,4-Dichlorophenol	6.87	162	132265	27.08 ng/µl	87
27) 1,2,4-Trichlorobenzene	7.00	180	153650	25.07 ng/µl	91
28) Naphthalene	7.09	128	429943	26.16 ng/µl	92
29) 4-Chloroaniline	7.15	127	184139	26.43 ng/µl	83
30) Hexachlorobutadiene	7.31	225	111681	26.27 ng/µl	95
31) Caprolactam	7.57	113	55436	26.21 ng/µl	95
32) 4-Chloro-3-methylphenol	7.81	107	141660	23.08 ng/µl	84
33) 2-Methylnaphthalene	8.08	142	266092	25.28 ng/µl	85
35) Hexachlorocyclopentadiene	8.43	237	143240	27.78 ng/µl	87
36) 2,4,6-Trichlorophenol	8.56	196	112356	27.26 ng/µl	88
37) 2,4,5-Trichlorophenol	8.63	196	106964	25.80 ng/µl	98
39) 1,1'-Biphenyl	8.84	154	370490	25.95 ng/µl	100
40) 2-Chloronaphthalene	8.87	162	295851	26.54 ng/µl	98
41) 2-Nitroaniline	9.08	65	122046	26.22 ng/µl	80

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM.1\DATA\MS60706L.MIZ\A08219.D Vial: 3
Acq On : 6 Jul 2011 12:04 pm Operator: MIZ
Sample : BNA MX 1&2 050 Inst : DEL6
Misc : 7/6/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 06 12:44:21 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM.1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

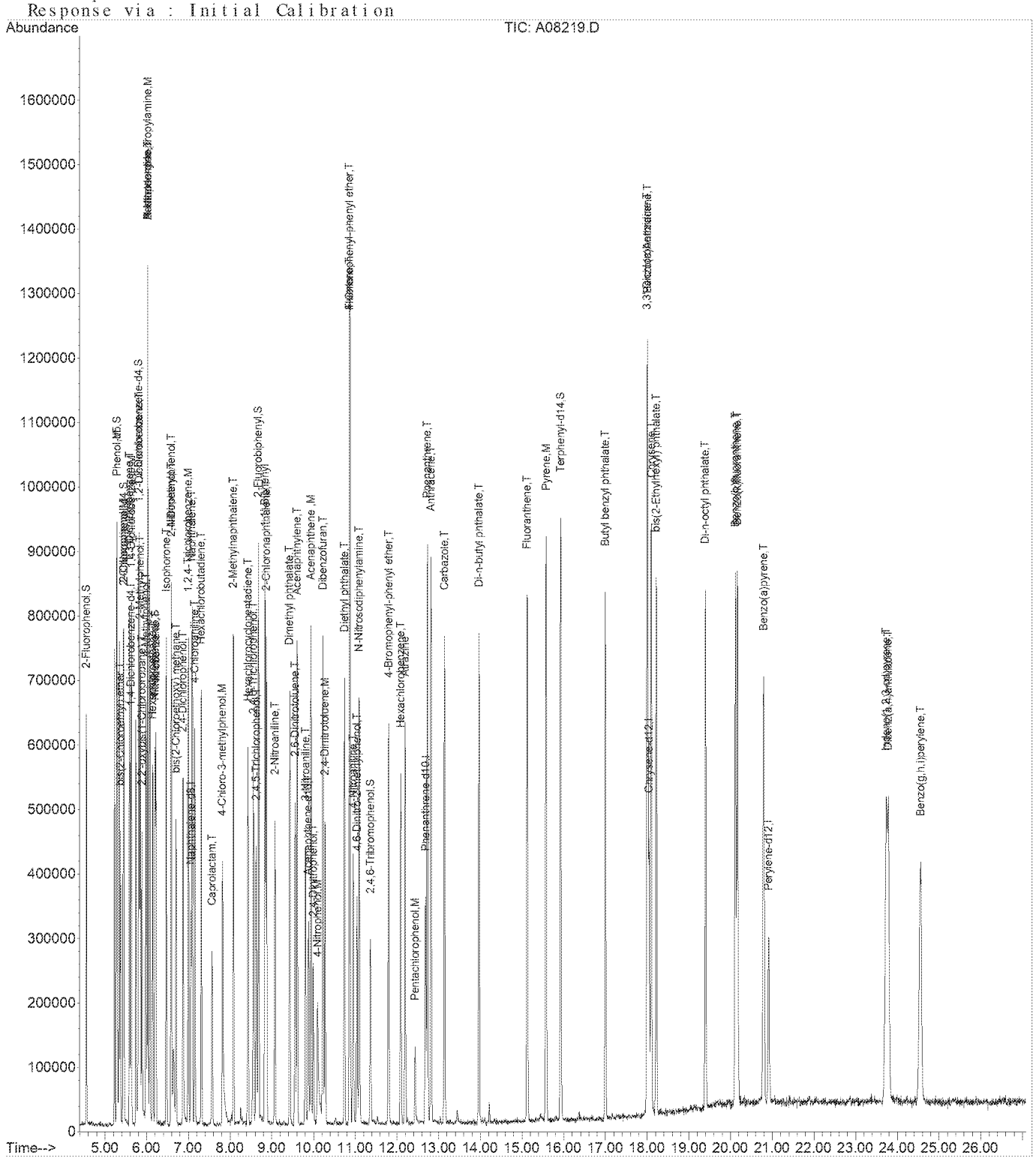
Compound	R.T.	Qion	Response	Conc Unit	Qvalue
42) Acenaphthylene	9.60	152	475882	27.32 ng/µl	100
43) Dimethyl phthalate	9.43	163	365522	27.33 ng/µl	86
44) 2,6-Dinitrotoluene	9.56	165	83772	27.14 ng/µl	98
45) 3-Nitroaniline	9.81	138	84708	27.65 ng/µl	80
46) Acenaphthene	9.94	153	282625	26.26 ng/µl	97
47) 2,4-Dinitrophenol	9.99	184	47426	23.59 ng/µl	97
48) Dibenzofuran	10.22	168	424259	26.92 ng/µl	89
49) 4-Nitrophenol	10.10	109	75874	26.16 ng/µl #	33
50) 2,4-Dinitrotoluene	10.28	165	116995	27.86 ng/µl	89
51) Fluorene	10.87	166	363418	27.89 ng/µl	95
52) Diethyl phthalate	10.74	149	345145	26.71 ng/µl	98
53) 4-Chlorophenyl-phenyl ethe	10.87	204	200523	27.23 ng/µl	89
54) 4-Nitroaniline	10.95	138	82171	28.11 ng/µl	88
57) 4,6-Dinitro-2-methylphenol	11.04	198	74544	28.03 ng/µl	83
58) N-Nitrosodiphenylamine	11.09	169	258866	28.07 ng/µl	93
59) 4-Bromophenyl-phenyl ether	11.80	248	117725	29.65 ng/µl	85
60) Atrazine	12.20	200	126814	28.77 ng/µl	94
61) Hexachlorobenzene	12.09	284	107802	27.91 ng/µl	89
62) Pentachlorophenol	12.43	266	20473m	18.79 ng/µl	
63) Phenanthrene	12.73	178	539840	29.26 ng/µl	98
64) Anthracene	12.82	178	535983	28.56 ng/µl	98
65) Carbazole	13.14	167	478251	29.63 ng/µl	95
66) Di-n-butyl phthalate	13.97	149	593169	29.78 ng/µl	98
67) Fluoranthene	15.13	202	615497	29.06 ng/µl	89
69) Pyrene	15.58	202	666070	27.10 ng/µl	84
71) Butyl benzyl phthalate	17.00	149	258425	27.28 ng/µl	91
72) Benzo(a)Anthracene	18.01	228	606573	26.59 ng/µl	93
73) 3,3'-Dichlorobenzidine	18.00	252	233372	30.76 ng/µl	87
74) Chrysene	18.10	228	594857	27.73 ng/µl	95
75) bis(2-Ethylhexyl) phthalat	18.22	149	358230	27.62 ng/µl	94
77) Di-n-octyl phthalate	19.40	149	613759	28.97 ng/µl	100
78) Benzo(b)fluoranthene	20.12	252	627606	28.19 ng/µl	94
79) Benzo(k)fluoranthene	20.17	252	628249	29.83 ng/µl	97
80) Benzo(a)pyrene	20.80	252	578110	26.60 ng/µl	84
81) Indeno(1,2,3-cd)pyrene	23.73	276	656179	29.56 ng/µl	85
82) Dibenz(a,h)anthracene	23.78	278	549816	30.32 ng/µl	92
83) Benzo(g,h,i)perylene	24.56	276	564467	30.44 ng/µl	98

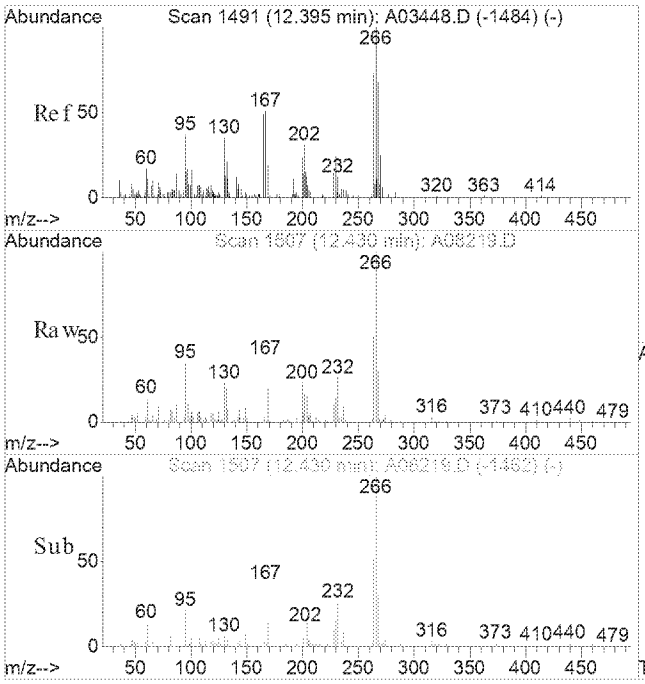
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM.1\DATA\MS60706L.MIZ\A08219.D Vial: 3
Acq On : 6 Jul 2011 12:04 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Msc : 7/6/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 6 12:45 2011 Quant Results File: I60705B.RES

Method : C:\MSDCHEM.1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration

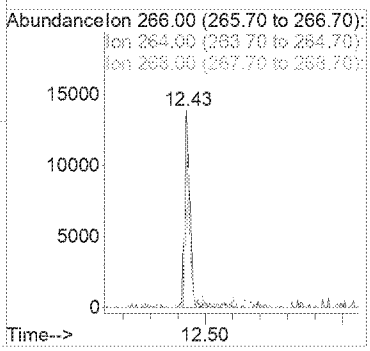




#62
Pentachlorophenol
Concen: 18.79 ng/µl m
RT: 12.43 min Scan# 1507
Delta R.T. -0.01 min
Lab File: A08219.D
Acq: 6 Jul 2011 12:04 pm

Tgt Ion: 266 Resp: 20473

Ion	Ratio	Lower	Upper
266	100		
264	50.5	31.1	71.1
268	30.3	34.8	74.8#



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\MS60706L.MIZ\A08224.D Vial: 3
Acq On : 6 Jul 2011 3:12 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 7/6/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P

Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
2	S	2-Fluorophenol	2.454	2.777	-13.2	115	0.00
3	T	Benzaldehyde	4.149	4.646	-12.0	107	0.00
4	S	Phenol-d5	3.539	3.887	-9.8	107	0.00
5	M	Phenol	3.531	3.931	-11.3	106	0.00
6	S	2-Chlorophenol-d4	2.318	2.625	-13.2	110	0.00
7	M	2-Chlorophenol	2.270	2.631	-15.9	116	0.00
8	T	bis(2-Chloroethyl) ether	2.589	2.885	-11.4	114	0.00
9	T	1,3-Dichlorobenzene	2.670	2.980	-11.6	110	0.00
10	M	1,4-Dichlorobenzene	2.772	3.008	-8.5	106	0.00
11	S	1,2-Dichlorobenzene-d4	1.713	2.004	-17.0	119	0.00
12	T	1,2-Dichlorobenzene	2.518	2.887	-14.7	111	0.00
13	T	2-Methylphenol	2.341	2.517	-7.5	107	0.00
14	T	2,2'-oxybis(1-Chloropropane	1.558	1.842	-18.2	113	0.00
15	T	Hexachloroethane	1.116	1.228	-10.0	106	0.00
16	T	Acetophenone	4.149	4.646	-12.0	107	0.00
17	T	4-Methylphenol	2.476	2.822	-14.0	109	0.00
18	M	N-Nitroso-di-n-propylamine	2.345	2.664	-13.6	109	0.00
19	I	Naphthalene-d8	1.000	1.000	0.0	110	0.00
20	S	Nitrobenzene-d5	1.067	1.079	-1.1	106	0.00
21	T	Nitrobenzene	1.034	1.083	-4.7	110	0.00
22	T	Isophorone	1.738	1.820	-4.7	110	0.00
23	T	2-Nitrophenol	0.376	0.391	-4.0	106	0.00
24	T	2,4-Dimethylphenol	0.546	0.522	4.4	113	0.00
25	T	bis(2-Chloroethoxy) methane	0.877	0.914	-4.2	109	0.00
26	T	2,4-Dichlorophenol	0.569	0.599	-5.3	113	0.00
27	M	1,2,4-Trichlorobenzene	0.714	0.751	-5.2	108	0.00
28	T	Naphthalene	1.915	1.988	-3.8	109	0.00
29	T	4-Chloroaniline	0.812	0.876	-7.9	111	0.00
30	T	Hexachlorobutadiene	0.495	0.506	-2.2	109	0.00
31	T	Caprolactam	0.246	0.267	-8.5	108	0.00
32	M	4-Chloro-3-methylphenol	0.715	0.771	-7.8	109	0.00
33	T	2-Methylnaphthalene	1.226	1.256	-2.4	107	0.00
34	I	Acenaphthene-d10	1.000	1.000	0.0	110	0.00
35	T	Hexachlorocyclopentadiene	0.943	0.919	2.5	108	0.00
36	T	2,4,6-Trichlorophenol	0.754	0.793	-5.2	108	0.00
37	T	2,4,5-Trichlorophenol	0.758	0.773	-2.0	103	0.00
38	S	2-Fluorobiphenyl	2.778	2.871	-3.3	108	0.00
39		1,1'-Biphenyl	2.612	2.779	-6.4	113	0.00
40	T	2-Chloronaphthalene	2.039	2.102	-3.1	108	0.00
41	T	2-Nitroaniline	0.851	0.884	-3.9	105	0.00
42	T	Acenaphthylene	3.186	3.320	-4.2	108	0.00
43	T	Dimethyl phthalate	2.446	2.511	-2.7	103	0.00
44	T	2,6-Dinitrotoluene	0.565	0.619	-9.6	114	0.00
45	T	3-Nitroaniline	0.560	0.610	-8.9	107	0.00
46	M	Acenaphthene	1.968	2.059	-4.6	107	-0.01
47	T	2,4-Dinitrophenol	0.368	0.399	-8.4	115	-0.01
48	T	Dibenzofuran	2.883	3.129	-8.5	110	0.00
49	M	4-Nitrophenol	0.530	0.522	1.5	91	0.00
50	M	2,4-Dinitrotoluene	0.768	0.812	-5.7	106	0.00
51	T	Fluorene	2.384	2.571	-7.8	109	0.00
52	T	Diethyl phthalate	2.363	2.638	-11.6	112	0.00
53	T	4-Chlorophenyl-phenyl ether	1.347	1.486	-10.3	114	0.00
54	T	4-Nitroaniline	0.535	0.623	-16.4	119	-0.01
55	S	2,4,6-Tribromophenol	0.278	0.335	-20.5	117	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM.1\DATA\MS60706L.MIZ\A08224.D Vial: 3
Acq On : 6 Jul 2011 3:12 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 7/6/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P

Method : C:\MSDCHEM.1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
56	I	Phenanthrene-d10	1.000	1.000	0.0	103	0.00
57	T	4,6-Dinitro-2-methylphenol	0.245	0.278	-13.5	117	0.00
58	T	N-Nitrosodiphenylamine	0.851	0.924	-8.6	109	-0.01
59	T	4-Bromophenyl-phenyl ether	0.367	0.407	-10.9	110	0.00
60		Atrazine	0.407	0.452	-11.1	113	0.00
61	T	Hexachlorobenzene	0.357	0.383	-7.3	108	-0.01
62	M	Pentachlorophenol	0.101	0.072	28.7#	92	0.00
63	T	Phenanthrene	1.704	1.868	-9.6	109	0.00
64	T	Anthracene	1.733	1.937	-11.8	109	0.00
65	T	Carbazole	1.490	1.673	-12.3	111	0.00
66	T	Di-n-butyl phthalate	1.839	2.121	-15.3	114	0.00
67	T	Fluoranthene	1.955	2.267	-16.0	113	-0.01
68	I	Chrysene-d12	1.000	1.000	0.0	112	0.00
69	M	Pyrene	1.969	2.094	-6.3	112	0.00
70	S	Terphenyl-d14	1.368	1.454	-6.3	113	-0.01
71	T	Butyl benzyl phthalate	0.759	0.847	-11.6	115	0.00
72	T	Benzo(a)Anthracene	1.828	2.019	-10.4	116	0.00
73	T	3,3'-Dichlorobenzidine	0.608	0.749	-23.2	123	0.00
74	T	Chrysene	1.719	1.965	-14.3	119	0.00
75	T	bis(2-Ethylhexyl) phthalate	1.039	1.168	-12.4	121	0.00
76	I	Perylene-d12	1.000	1.000	0.0	104	0.00
77	T	Di-n-octyl phthalate	1.950	2.347	-20.4	117	0.00
78	T	Benzo(b)fluoranthene	2.049	2.410	-17.6	123	-0.01
79	T	Benzo(k)fluoranthene	1.938	2.150	-10.9	115	-0.01
80	T	Benzo(a)pyrene	2.000	2.302	-15.1	115	0.00
81	T	Indeno(1,2,3-cd)pyrene	2.042	2.368	-16.0	111	-0.01
82	T	Dibenz(a,h)anthracene	1.668	1.945	-16.6	109	0.00
83	T	Benzo(g,h,i)perylene	1.706	2.050	-20.2	115	-0.02

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

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60706L.MIZ\A08224.D Vial: 3
Acq On : 6 Jul 2011 3:12 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 7/6/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 07 08:28:36 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.61	152	61419	20.00 ng/µl	0.00
19) Naphthalene-d8	7.06	136	242323	20.00 ng/µl	0.00
34) Acenaphthene-d10	9.88	164	159051	20.00 ng/µl	0.00
56) Phenanthrene-d10	12.69	188	328370	20.00 ng/µl	0.00
68) Chrysene-d12	18.05	240	376533	20.00 ng/µl	0.00
76) Perylene-d12	20.91	264	321494	20.00 ng/µl	0.00
System Monitoring Compounds					
2) 2-Fluorophenol	4.55	112	213212	28.29 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery =	37.72%	
4) Phenol-d5	5.28	99	298400	27.46 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery =	36.61%	
6) 2-Chlorophenol-d4	5.44	132	201533	28.31 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery =	37.75%	
11) 1,2-Dichlorobenzene-d4	5.81	152	153837	29.24 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery =	58.48%	
20) Nitrobenzene-d5	6.20	82	326869	25.29 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery =	50.58%	
38) 2-Fluorobiphenyl	8.69	172	570741	25.83 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery =	51.66%	
55) 2,4,6-Tribromophenol	11.37	330	66700	30.18 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery =	40.24%	
70) Terphenyl-d14	15.92	244	684144	26.57 ng/µl	-0.01
Spiked Amount 50.000	Range 33 - 141		Recovery =	53.14%	

Target Compounds					Qvalue
3) Benzaldehyde	6.03	105	356654	27.99 ng/µl	89
5) Phenol	5.29	94	301773	27.83 ng/µl	87
7) 2-Chlorophenol	5.45	128	202025	28.99 ng/µl	95
8) bis(2-Chloroethyl) ether	5.37	93	221473	27.85 ng/µl #	84
9) 1,3-Dichlorobenzene	5.59	146	228752	27.90 ng/µl	95
10) 1,4-Dichlorobenzene	5.64	146	230914	27.12 ng/µl	98
12) 1,2-Dichlorobenzene	5.82	146	221627	28.66 ng/µl	92
13) 2-Methylphenol	5.85	108	193248	26.88 ng/µl	89
14) 2,2'-oxybis(1-Chloropropan	5.89	45	141408	29.55 ng/µl	48
15) Hexachloroethane	6.14	117	94307	27.51 ng/µl #	53
16) Acetophenone	6.03	105	356654	27.99 ng/µl	89
17) 4-Methylphenol	5.98	108	216637	28.50 ng/µl	85
18) N-Nitroso-di-n-propylamine	6.03	70	204521	28.40 ng/µl #	70
21) Nitrobenzene	6.22	77	328031	26.17 ng/µl	87
22) Isophorone	6.47	82	551254	26.19 ng/µl	87
23) 2-Nitrophenol	6.59	139	118343	25.99 ng/µl	74
24) 2,4-Dimethylphenol	6.59	107	158102	23.91 ng/µl	94
25) bis(2-Chloroethoxy) methan	6.70	93	276904	26.05 ng/µl	94
26) 2,4-Dichlorophenol	6.87	162	181407	26.31 ng/µl	94
27) 1,2,4-Trichlorobenzene	7.00	180	227395	26.29 ng/µl	89
28) Naphthalene	7.09	128	602100	25.95 ng/µl	89
29) 4-Chloroaniline	7.15	127	265427	26.98 ng/µl	84
30) Hexachlorobutadiene	7.31	225	153199	25.53 ng/µl	88
31) Caprolactam	7.58	113	80807	27.07 ng/µl	95
32) 4-Chloro-3-methylphenol	7.81	107	233556	26.95 ng/µl	83
33) 2-Methylnaphthalene	8.08	142	380561	25.61 ng/µl	86
35) Hexachlorocyclopentadiene	8.43	237	182664	24.36 ng/µl	89
36) 2,4,6-Trichlorophenol	8.56	196	157585	26.29 ng/µl	95
37) 2,4,5-Trichlorophenol	8.62	196	153594	25.47 ng/µl	89
39) 1,1'-Biphenyl	8.84	154	552478	26.60 ng/µl	100
40) 2-Chloronaphthalene	8.87	162	417953	25.78 ng/µl	98
41) 2-Nitroaniline	9.08	65	175823	25.97 ng/µl	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60706L.MIZ\A08224.D Vial: 3
Acq On : 6 Jul 2011 3:12 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Misc : 7/6/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 07 08:28:36 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

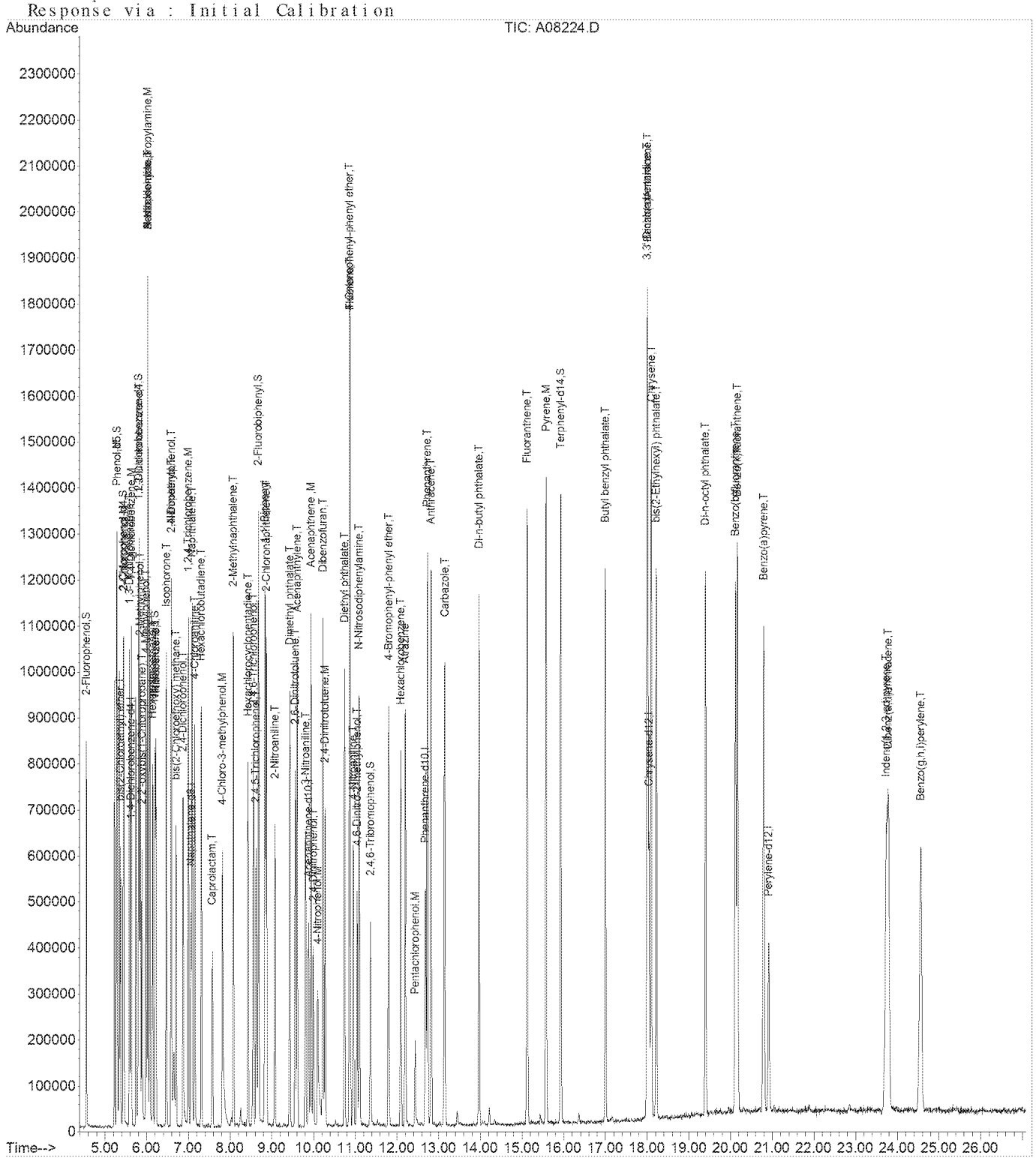
Compound	R.T.	Qion	Response	Conc Unit	Qvalue
42) Acenaphthylene	9.61	152	660058	26.05 ng/µl	100
43) Dimethyl phthalate	9.43	163	499289	25.66 ng/µl	79
44) 2,6-Dinitrotoluene	9.56	165	122981	27.39 ng/µl	95
45) 3-Nitroaniline	9.81	138	121331	27.23 ng/µl #	82
46) Acenaphthene	9.94	153	409268	26.15 ng/µl	94
47) 2,4-Dinitrophenol	9.99	184	79424	27.16 ng/µl	96
48) Dibenzofuran	10.22	168	622029	27.13 ng/µl	99
49) 4-Nitrophenol	10.10	109	103748	24.59 ng/µl #	39
50) 2,4-Dinitrotoluene	10.28	165	161371	26.42 ng/µl	99
51) Fluorene	10.88	166	511116	26.96 ng/µl	98
52) Diethyl phthalate	10.75	149	524531	27.91 ng/µl	96
53) 4-Chlorophenyl-phenyl ethe	10.87	204	295381	27.57 ng/µl	83
54) 4-Nitroaniline	10.95	138	123843	29.13 ng/µl #	74
57) 4,6-Dinitro-2-methylphenol	11.04	198	113969	28.28 ng/µl	92
58) N-Nitrosodiphenylamine	11.09	169	379294	27.13 ng/µl	95
59) 4-Bromophenyl-phenyl ether	11.81	248	167038	27.75 ng/µl	79
60) Atrazine	12.20	200	185426	27.75 ng/µl	96
61) Hexachlorobenzene	12.09	284	157336	26.87 ng/µl	84
62) Pentachlorophenol	12.44	266	29540	17.88 ng/µl	87
63) Phenanthrene	12.73	178	766603	27.41 ng/µl	95
64) Anthracene	12.82	178	794910	27.94 ng/µl	97
65) Carbazole	13.15	167	686624	28.07 ng/µl	96
66) Di-n-butyl phthalate	13.97	149	870697	28.84 ng/µl	98
67) Fluoranthene	15.12	202	930550	28.99 ng/µl	89
69) Pyrene	15.58	202	985622	26.58 ng/µl	83
71) Butyl benzyl phthalate	17.00	149	398768	27.91 ng/µl	90
72) Benzo(a)Anthracene	18.01	228	950405	27.61 ng/µl	94
73) 3,3'-Dichlorobenzidine	18.00	252	352511	30.80 ng/µl	97
74) Chrysene	18.10	228	925028	28.58 ng/µl	94
75) bis(2-Ethylhexyl) phthalat	18.22	149	549525	28.08 ng/µl	99
77) Di-n-octyl phthalate	19.40	149	943300	30.10 ng/µl	98
78) Benzo(b)fluoranthene	20.12	252	968320	29.41 ng/µl	95
79) Benzo(k)fluoranthene	20.17	252	864107	27.74 ng/µl	97
80) Benzo(a)pyrene	20.80	252	925242	28.78 ng/µl	83
81) Indeno(1,2,3-cd)pyrene	23.73	276	951618	28.99 ng/µl	84
82) Dibenz(a,h)anthracene	23.79	278	781724	29.15 ng/µl	96
83) Benzo(g,h,i)perylene	24.56	276	823817	30.04 ng/µl	93

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

Quantitation Report (Not Reviewed)

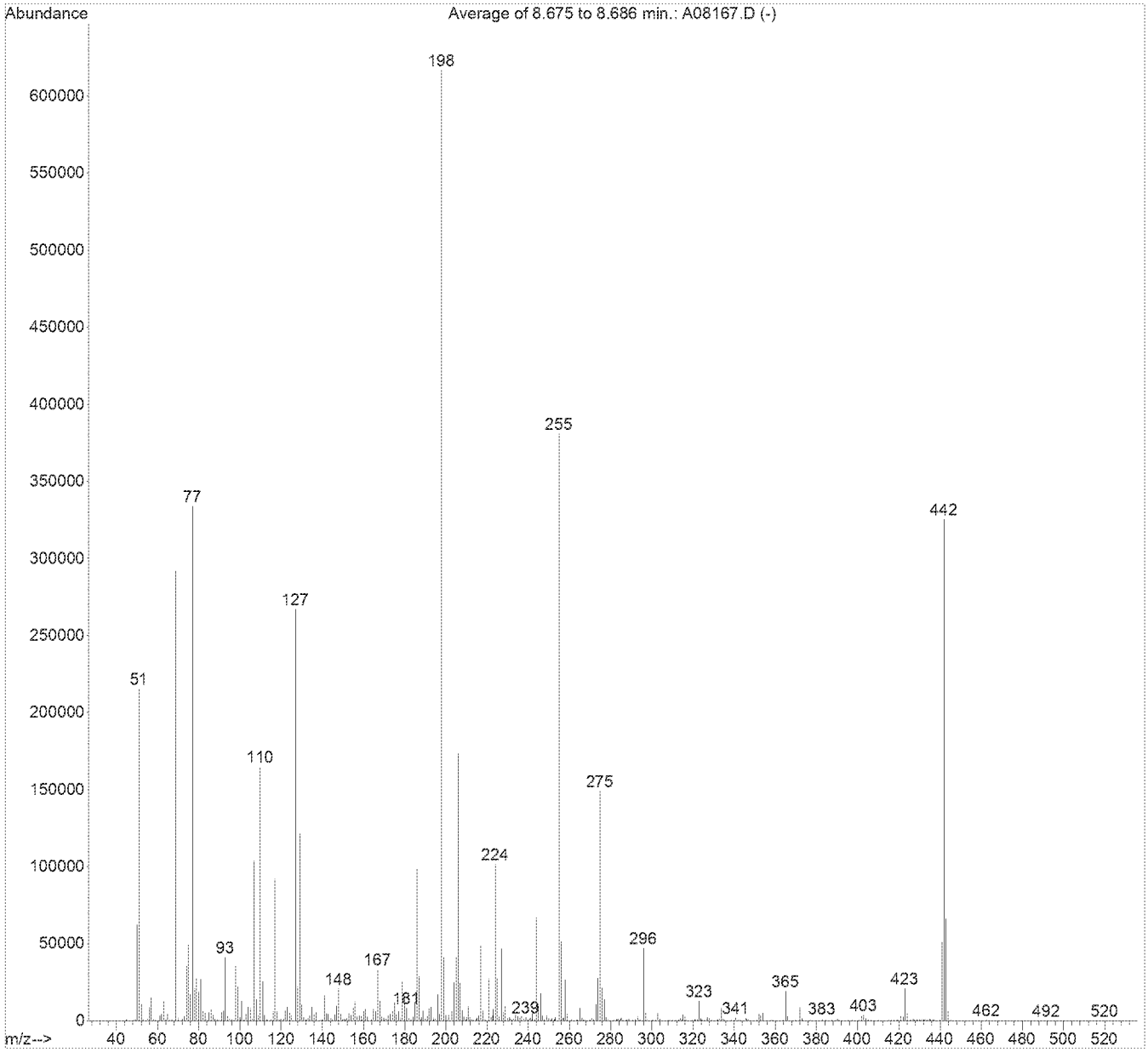
Data File : C:\MSDCHEM.1\DATA\MS60706L.MIZ\A08224.D Vial: 3
Acq On : 6 Jul 2011 3:12 pm Operator: MIZ
Sample : BNA MIX 1&2 050 Inst : DEL6
Msc : 7/6/2011 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 7 8:28 2011 Quant Results File: I60705B.RES

Method : C:\MSDCHEM.1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration



DFTPP CLP Results

C:\MSDCHEM1\DATA\MS60629L.MIZ\A08167.D Wed Jun 29 14:10:12 2011



Peak Apex is scan: 962
Average of 3 scans: 961,962,963 minus background scan 942

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
51	198	30	80	34.9	PASS
68	69	0	2	0.0	PASS
69	198	0	100	47.3	PASS
70	69	0	2	0.6	PASS
127	198	25	75	43.3	PASS
197	198	0	1	0.7	PASS
198	198	100	100	100.0	PASS
199	198	5	9	6.6	PASS
275	198	10	30	24.1	PASS
365	198	1	100	3.1	PASS
441	443	0	100	77.0	PASS
442	198	40	110	52.7	PASS
443	442	15	24	20.3	PASS

Average of 8.675 to 8.686 min.: A08167.D
DFTPP
Mbdified: subtracted

42.50	193.0
43.95	398.0
44.80	253.0
44.95	557.0
46.10	96.0
47.50	210.0
48.35	222.0
48.60	312.0
49.10	628.0
50.00	62197.0
51.00	215489.0
52.00	10461.0
53.05	623.0
54.20	63.0
55.00	959.0
56.00	8622.0
56.90	14745.0
58.00	774.0
59.05	436.0
61.00	3249.0
62.00	4217.0
62.95	13007.0
63.90	622.0
64.10	255.0
64.95	4568.0
65.95	400.0
66.40	134.0
67.00	916.0
68.90	291822.0
70.05	1675.0
72.00	1003.0
72.95	2809.0
74.00	35266.0
75.00	49042.0
76.00	17035.0
77.00	333686.0
78.00	20693.0
78.95	27493.0
80.00	18701.0
81.00	26936.0
82.00	6575.0
82.95	4926.0
83.90	772.0
84.95	5087.0
85.95	7754.0
87.05	3493.0
87.85	1403.0
89.00	836.0
89.70	381.0
90.00	83.0
90.95	5393.0
91.95	6193.0
92.90	41164.0
93.95	2894.0
95.00	965.0
96.05	712.0
97.00	259.0
97.95	35477.0
98.90	21718.0
99.95	1974.0
100.20	336.0
100.95	12636.0
101.90	296.0
102.20	272.0
103.00	4355.0
103.90	8814.0
104.95	8191.0
106.10	1064.0
107.00	103392.0
107.95	13827.0
108.95	3205.0
109.90	164787.0
111.00	25477.0
111.95	3355.0

113.00	1337.0
113.50	178.0
114.00	361.0
115.00	570.0
116.05	6028.0
116.90	91834.0
117.95	6070.0
118.80	807.0
119.20	400.0
119.85	1099.0
121.10	965.0
122.00	6385.0
122.95	8888.0
124.00	5781.0
124.95	3278.0
127.00	266886.0
128.00	22066.0
129.00	121402.0
129.95	10127.0
130.90	2129.0
132.05	1110.0
132.60	519.0
132.95	1273.0
133.95	3509.0
134.95	8889.0
136.00	3721.0
136.95	5547.0
137.70	225.0
137.95	541.0
138.95	388.0
139.20	282.0
139.90	640.0
140.10	403.0
140.90	16116.0
142.00	4453.0
142.95	4201.0
144.10	1187.0
145.00	769.0
145.95	3786.0
146.95	9647.0
147.90	20678.0
148.90	4267.0
149.80	340.0
150.10	611.0
150.90	1048.0
151.20	582.0
151.95	1235.0
152.85	4441.0
153.95	3646.0
154.90	8747.0
155.95	12285.0
156.95	2642.0
157.95	3255.0
159.00	2643.0
159.20	674.0
159.95	5950.0
160.90	7867.0
161.85	2476.0
163.00	461.0
163.85	1063.0
164.90	7311.0
165.95	6170.0
166.85	33038.0
167.95	13138.0
168.90	2457.0
169.85	1597.0
170.10	480.0
170.85	1175.0
171.10	563.0
171.90	3025.0
173.00	4190.0
174.00	6353.0
175.00	11983.0
175.95	3919.0
176.90	5870.0
177.95	1828.0
178.95	25549.0

179.95	13968.0
180.95	8071.0
181.95	1304.0
182.80	91.0
183.00	637.0
184.05	2448.0
184.95	11974.0
185.95	98161.0
186.95	28746.0
187.80	607.0
188.05	2011.0
188.95	6479.0
189.90	1079.0
190.10	683.0
191.00	2610.0
191.85	7817.0
192.90	8901.0
193.95	1629.0
194.20	715.0
195.00	1045.0
195.95	17011.0
196.80	4344.0
197.90	616682.0
198.90	40816.0
200.00	3386.0
200.90	321.0
201.40	3585.0
202.85	5822.0
203.95	24602.0
204.95	40856.0
206.00	173205.0
206.95	24436.0
208.00	6663.0
208.85	2283.0
209.85	1358.0
210.15	2097.0
210.90	9094.0
211.75	2013.0
212.60	413.0
212.80	589.0
213.10	95.0
213.30	100.0
213.60	132.0
213.90	504.0
214.80	868.0
215.00	1780.0
215.95	3237.0
216.90	49176.0
217.95	6449.0
218.85	626.0
219.20	380.0
220.95	27149.0
222.00	2211.0
222.80	3204.0
222.95	7279.0
224.00	101344.0
224.95	27848.0
225.80	851.0
226.05	2554.0
226.95	46714.0
228.00	5095.0
228.95	9592.0
229.85	1294.0
230.85	2039.0
231.10	1014.0
232.00	626.0
232.85	980.0
233.10	288.0
233.95	3992.0
234.95	2636.0
235.90	1699.0
236.85	2994.0
237.85	1009.0
238.85	2026.0
239.95	1300.0
240.80	978.0
241.05	1637.0

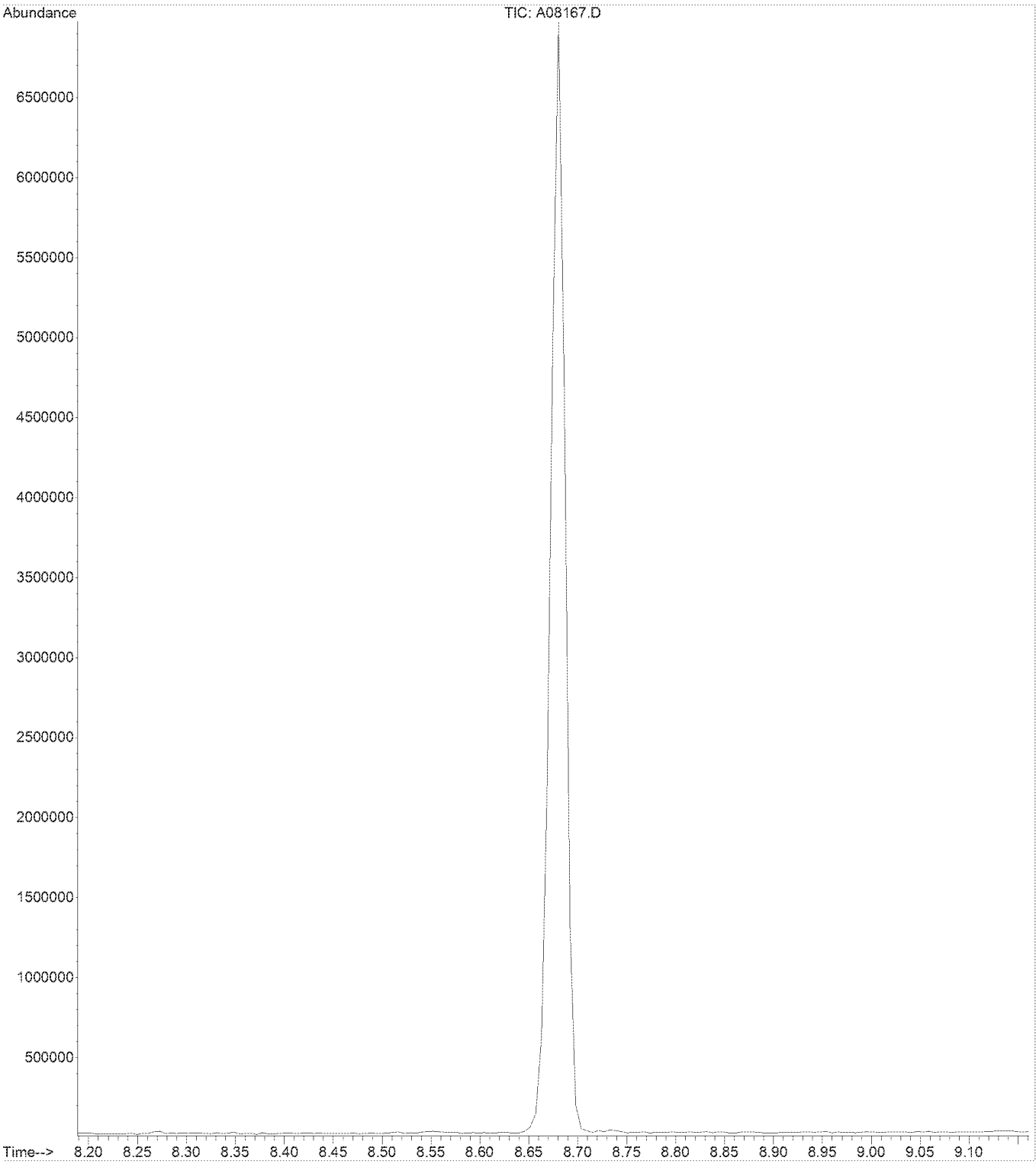
241.70	853.0
241.95	4640.0
243.00	1342.0
244.00	66698.0
245.00	9650.0
245.95	17738.0
246.80	3113.0
247.80	676.0
248.00	504.0
248.95	3297.0
250.00	1193.0
250.95	1199.0
251.60	1241.0
252.10	293.0
252.50	586.0
252.80	558.0
253.15	2256.0
254.95	380778.0
255.95	51101.0
256.90	1526.0
257.10	1756.0
257.95	26440.0
258.95	4223.0
259.80	467.0
261.10	702.0
262.10	93.0
263.00	144.0
263.55	450.0
263.80	338.0
264.10	290.0
264.95	8014.0
265.70	401.0
266.05	1907.0
266.75	274.0
267.00	340.0
267.50	234.0
267.90	73.0
268.05	256.0
269.50	296.0
269.80	172.0
270.00	451.0
270.95	1384.0
271.75	987.0
273.00	10495.0
273.90	27426.0
274.90	148928.0
275.95	21427.0
276.90	13808.0
277.85	2128.0
278.95	604.0
280.90	70.0
281.70	446.0
282.70	531.0
282.90	1457.0
283.20	451.0
283.90	1122.0
284.10	250.0
284.80	419.0
284.90	960.0
285.05	1829.0
285.90	291.0
286.20	94.0
286.50	101.0
287.65	321.0
287.80	185.0
288.00	184.0
288.85	1025.0
289.90	279.0
290.70	269.0
291.00	74.0
291.50	59.0
292.00	570.0
293.05	2748.0
293.75	535.0
294.10	389.0
294.40	474.0
295.95	47138.0

296.95	5701.0
297.90	575.0
300.10	220.0
300.70	316.0
301.15	344.0
301.90	266.0
302.80	1028.0
302.95	4943.0
303.85	950.0
304.10	250.0
304.90	86.0
306.70	125.0
307.75	264.0
308.05	373.0
308.70	184.0
309.00	56.0
310.00	513.0
310.95	373.0
311.70	198.0
312.90	243.0
313.30	433.0
313.80	829.0
314.00	1327.0
314.80	730.0
314.95	3670.0
316.05	2586.0
316.60	288.0
317.15	393.0
317.40	64.0
317.90	62.0
318.10	70.0
318.70	54.0
319.00	70.0
319.50	89.0
319.75	342.0
320.80	874.0
321.20	615.0
322.15	545.0
323.05	12825.0
323.80	1199.0
324.15	1441.0
324.70	185.0
325.20	155.0
325.70	459.0
326.60	617.0
326.95	2076.0
327.95	1486.0
329.00	470.0
329.90	56.0
330.40	58.0
331.00	120.0
331.50	97.0
331.80	191.0
332.05	1097.0
332.80	971.0
333.10	199.0
333.90	7948.0
334.65	999.0
335.10	1365.0
336.00	134.0
336.20	96.0
338.55	226.0
339.90	51.0
340.10	424.0
340.85	1770.0
342.05	532.0
342.70	272.0
343.30	80.0
343.60	86.0
344.30	135.0
345.80	1345.0
346.00	915.0
346.80	714.0
347.05	341.0
347.60	51.0
349.40	100.0
350.20	275.0

350.95	387.0
351.95	4567.0
352.95	3009.0
353.95	4959.0
354.90	341.0
355.10	348.0
358.00	172.0
358.75	310.0
359.20	105.0
359.50	98.0
360.20	87.0
360.80	91.0
362.60	81.0
363.10	75.0
363.65	401.0
364.95	19095.0
365.85	2672.0
367.50	90.0
369.10	70.0
369.85	201.0
370.60	72.0
371.10	442.0
371.95	8336.0
372.90	1332.0
373.30	345.0
373.90	189.0
375.20	88.0
375.70	59.0
376.50	74.0
376.95	246.0
380.00	79.0
380.60	186.0
381.70	56.0
382.10	117.0
382.75	1350.0
383.70	83.0
383.90	255.0
384.65	283.0
387.55	478.0
388.90	91.0
389.70	432.0
390.15	933.0
390.50	152.0
390.85	477.0
391.50	73.0
391.80	261.0
392.00	62.0
393.15	237.0
393.70	117.0
394.40	98.0
395.40	135.0
397.15	293.0
398.20	221.0
399.10	72.0
400.80	153.0
401.00	274.0
401.85	3290.0
402.90	3615.0
403.90	1421.0
405.00	134.0
405.20	395.0
406.60	134.0
408.40	59.0
409.00	69.0
409.60	66.0
410.10	340.0
410.50	52.0
410.70	96.0
412.30	76.0
413.90	238.0
414.10	56.0
414.70	56.0
415.00	245.0
416.30	214.0
417.10	124.0
417.60	170.0
418.10	75.0

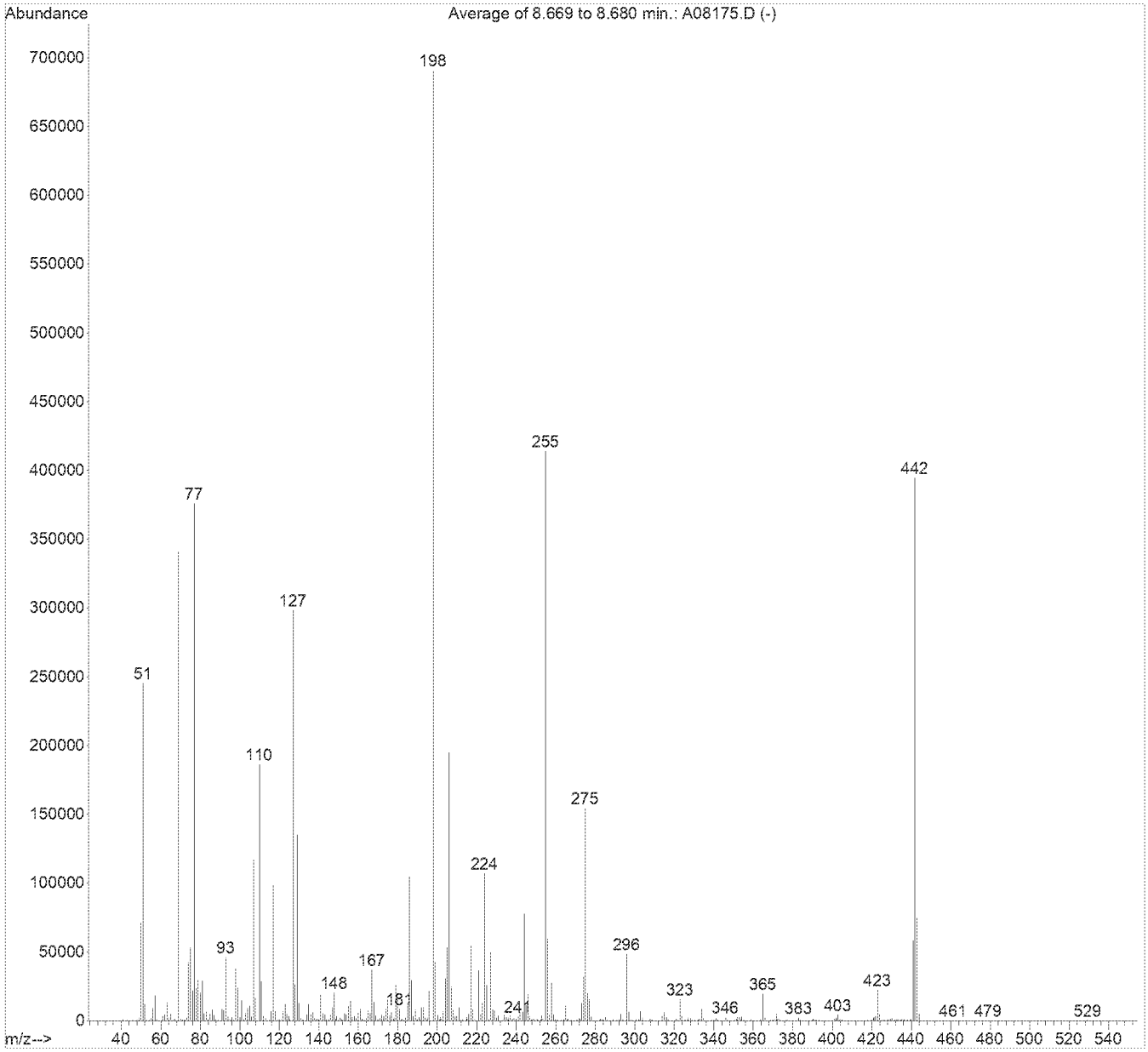
418.80	299.0
419.00	199.0
419.40	133.0
419.90	260.0
420.85	2837.0
422.05	2522.0
422.95	20812.0
423.95	4418.0
425.00	342.0
425.40	135.0
425.90	155.0
426.50	232.0
426.90	1035.0
427.40	270.0
427.75	408.0
428.10	328.0
428.30	355.0
428.80	726.0
429.40	452.0
430.20	551.0
430.70	436.0
431.05	619.0
431.90	832.0
432.10	192.0
432.60	205.0
433.05	723.0
433.60	286.0
434.05	371.0
434.50	373.0
434.80	251.0
434.95	945.0
435.30	466.0
435.50	679.0
436.10	399.0
436.35	804.0
437.05	282.0
437.30	181.0
437.50	69.0
437.80	79.0
438.10	119.0
438.50	80.0
439.05	478.0
439.40	109.0
439.90	296.0
440.90	50936.0
441.95	325162.0
442.90	66168.0
443.85	6588.0
445.10	144.0
451.80	55.0
462.55	163.0
465.00	60.0
474.20	60.0
479.10	60.0
491.70	158.0
492.40	70.0
499.50	55.0
502.30	50.0
520.00	75.0

File : C:\MSDCHEM 1\DATA\MS60629L.MIZ\A08167.D
Operator : MIZ
Acquired : 29 Jun 2011 8:16 am using AcqMethod WLDDFTP1
Instrument : DEL6
Sample Name: DFTPP
Misc Info : 6/28/2011
Vial Number: 1



DFTPP CLP Results

C:\MSDCHEM1\DATA\MS60629L.MIZ\A08175.D Wed Jun 29 14:11:23 2011



Peak Apex is scan: 961
Average of 3 scans: 960,961,962 minus background scan 941

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
51	198	30	80	35.5	PASS
68	69	0	2	0.0	PASS
69	198	0	100	49.3	PASS
70	69	0	2	0.4	PASS
127	198	25	75	43.1	PASS
197	198	0	1	0.0	PASS
198	198	100	100	100.0	PASS
199	198	5	9	6.3	PASS
275	198	10	30	22.4	PASS
365	198	1	100	2.8	PASS
441	443	0	100	77.7	PASS
442	198	40	110	57.1	PASS
443	442	15	24	19.0	PASS

Average of 8.669 to 8.680 min.: A08175.D
DFTPP
Mbdified: subtracted

40.10	142.0
40.95	678.0
43.10	301.0
45.00	82.0
45.85	355.0
46.40	109.0
48.05	194.0
48.40	95.0
49.00	1958.0
50.00	70890.0
51.00	245269.0
52.00	12043.0
52.90	312.0
54.20	213.0
55.00	1561.0
56.00	9079.0
57.00	18032.0
57.95	771.0
59.90	232.0
60.20	301.0
61.05	3106.0
62.00	4495.0
63.00	12913.0
63.95	1958.0
65.00	4527.0
66.05	544.0
66.40	163.0
67.00	1033.0
68.90	340565.0
69.90	1214.0
70.80	355.0
71.00	252.0
71.90	160.0
72.30	312.0
73.00	2219.0
74.00	42418.0
75.00	53226.0
76.00	21633.0
77.00	375765.0
78.00	23311.0
78.95	29680.0
79.90	20226.0
80.95	29028.0
81.90	5006.0
83.00	6435.0
83.85	824.0
84.90	4531.0
86.00	8089.0
86.90	4046.0
87.75	786.0
88.00	276.0
88.50	119.0
89.05	520.0
90.95	8140.0
91.90	7693.0
92.95	46130.0
93.95	2620.0
94.95	653.0
95.30	314.0
96.00	2150.0
96.90	605.0
98.00	37549.0
98.90	23785.0
100.00	2397.0
100.95	14540.0
101.90	690.0
102.90	5519.0
103.90	9093.0
104.95	10627.0
105.95	2642.0
107.00	116861.0
107.95	16926.0
109.90	186218.0
111.00	28451.0

111.85	3863.0
112.95	1593.0
114.10	126.0
114.90	534.0
115.95	6876.0
116.95	98066.0
118.00	6760.0
118.70	86.0
119.05	424.0
119.70	469.0
120.00	851.0
121.00	925.0
121.90	6636.0
122.90	12086.0
123.95	4773.0
124.90	3219.0
125.10	964.0
127.00	298090.0
128.00	25949.0
128.95	134890.0
129.95	12517.0
131.00	1643.0
131.80	408.0
132.20	414.0
132.85	88.0
133.95	4404.0
134.95	11965.0
136.00	4752.0
137.00	5674.0
137.80	1433.0
138.50	184.0
139.00	1010.0
139.90	549.0
140.10	1037.0
140.95	18618.0
141.90	5200.0
143.00	4332.0
143.85	780.0
144.90	203.0
145.10	881.0
146.00	4095.0
146.95	9387.0
147.85	20306.0
148.70	1069.0
148.95	3357.0
149.95	575.0
150.90	1813.0
151.10	920.0
151.70	636.0
152.10	474.0
152.95	5207.0
153.90	4250.0
154.95	10380.0
156.00	14238.0
156.95	2224.0
157.90	3303.0
158.85	1571.0
159.95	5482.0
160.95	8115.0
161.75	1556.0
162.00	1106.0
162.20	369.0
162.85	526.0
163.05	119.0
164.00	1477.0
164.90	7271.0
165.95	5443.0
166.90	36804.0
167.95	13373.0
168.85	3436.0
169.90	1690.0
170.50	417.0
170.90	1737.0
171.90	4357.0
172.70	899.0
172.95	3153.0
173.95	8220.0

174.95	14907.0
176.00	3450.0
176.90	6046.0
177.80	999.0
178.05	1911.0
178.90	26674.0
179.90	16430.0
180.95	8308.0
181.80	424.0
182.00	1123.0
182.30	408.0
182.70	473.0
183.85	2347.0
184.20	477.0
185.00	13245.0
186.00	104418.0
187.00	29333.0
187.95	3031.0
188.95	8039.0
189.85	1632.0
190.10	556.0
190.90	2547.0
191.10	940.0
192.00	9550.0
192.95	9395.0
193.95	2813.0
194.80	198.0
195.05	1834.0
195.95	21974.0
197.90	690837.0
198.90	43229.0
200.05	4084.0
201.00	711.0
201.45	2362.0
202.15	973.0
202.95	6508.0
203.95	30368.0
204.90	53024.0
206.00	194986.0
206.95	24644.0
207.95	7317.0
208.95	2945.0
209.95	3032.0
210.95	9538.0
211.90	336.0
212.90	680.0
214.00	545.0
214.85	2138.0
215.10	1078.0
215.95	4762.0
216.90	55192.0
217.90	8562.0
218.85	852.0
219.50	146.0
220.85	36390.0
221.90	4423.0
222.90	12753.0
223.95	107042.0
225.00	25824.0
226.00	910.0
226.90	49696.0
227.95	7723.0
228.95	7660.0
229.95	2077.0
230.90	3432.0
231.80	153.0
232.10	555.0
232.70	76.0
232.90	135.0
233.20	365.0
233.95	3765.0
234.95	2457.0
235.80	860.0
236.05	2093.0
236.95	3580.0
237.95	1016.0
238.95	1647.0

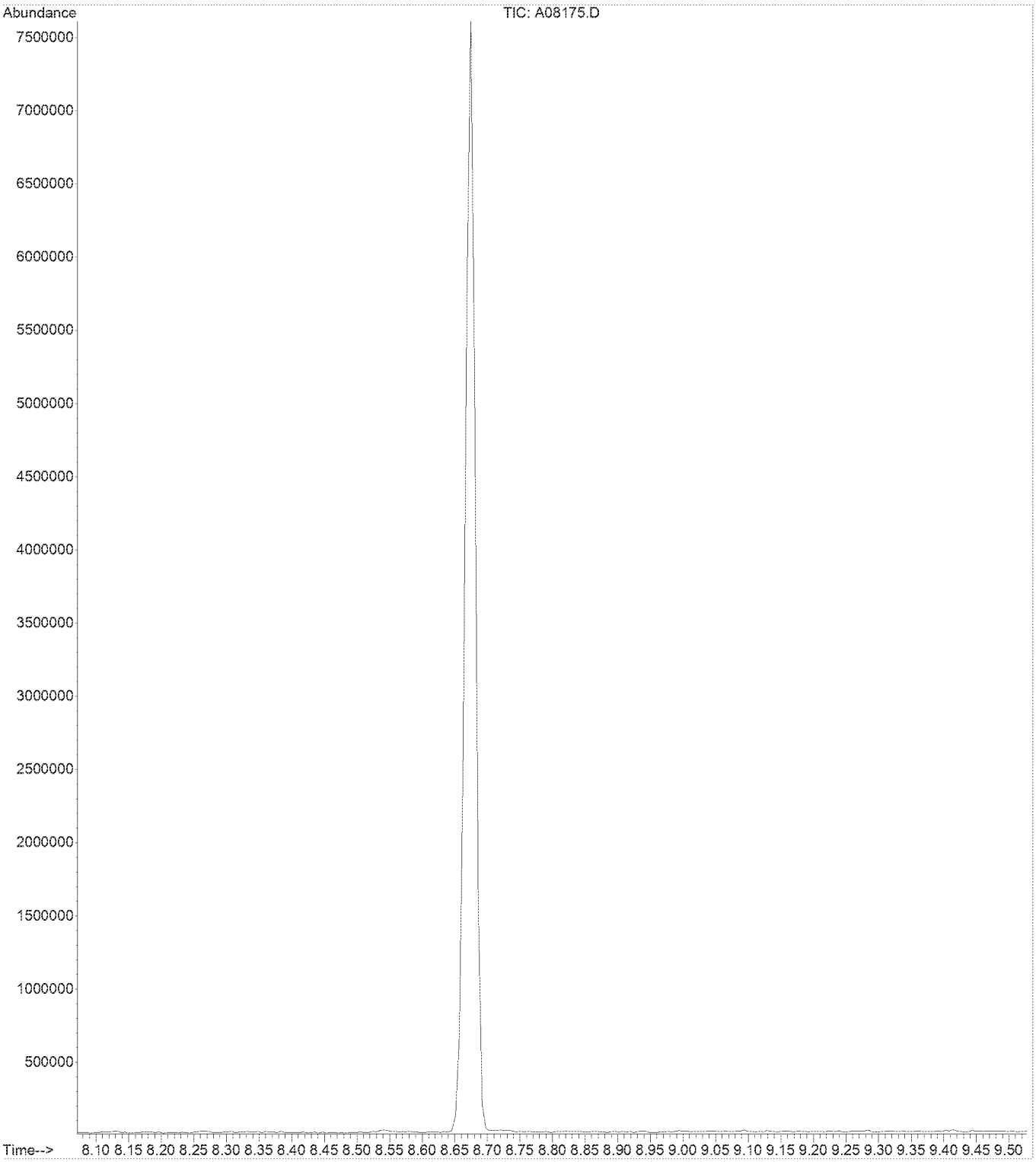
239.80	470.0
240.00	1252.0
240.95	2836.0
241.95	5947.0
243.05	6207.0
243.95	77533.0
245.00	11115.0
245.95	19109.0
246.90	3336.0
247.70	280.0
248.05	643.0
248.80	1127.0
249.00	571.0
249.60	127.0
250.05	918.0
250.75	757.0
251.00	240.0
251.90	526.0
252.20	946.0
252.40	480.0
252.95	3992.0
253.50	971.0
254.90	413874.0
256.00	59557.0
256.85	3927.0
257.90	27634.0
258.95	4378.0
259.80	613.0
260.05	402.0
260.70	395.0
260.90	554.0
261.80	70.0
262.30	155.0
262.85	324.0
263.10	140.0
263.80	195.0
264.20	858.0
264.95	10640.0
265.75	1053.0
265.95	1125.0
266.60	306.0
267.00	81.0
267.65	339.0
268.10	67.0
268.60	226.0
269.90	158.0
270.10	503.0
270.35	535.0
270.60	176.0
270.80	159.0
271.15	435.0
271.80	1548.0
272.10	1185.0
273.00	12747.0
273.95	31480.0
274.95	154645.0
275.95	19832.0
276.85	15320.0
278.00	2569.0
278.95	141.0
280.25	227.0
281.65	458.0
282.00	186.0
282.65	1372.0
282.90	479.0
283.20	516.0
283.85	616.0
284.10	276.0
285.00	2581.0
285.80	146.0
286.05	413.0
286.70	98.0
288.00	119.0
288.95	637.0
289.50	97.0
289.85	344.0
290.70	151.0

290.90	178.0
292.05	709.0
292.85	4532.0
293.85	386.0
294.10	1252.0
295.90	48410.0
296.95	6333.0
297.90	300.0
298.70	401.0
299.80	246.0
300.65	1027.0
301.85	655.0
302.20	599.0
302.85	6567.0
303.85	1818.0
305.00	184.0
305.60	151.0
307.10	100.0
307.80	1015.0
308.40	102.0
308.60	258.0
308.90	225.0
309.80	429.0
310.00	597.0
311.60	301.0
312.25	96.0
312.70	102.0
313.00	299.0
313.95	2943.0
314.90	6082.0
315.90	1165.0
316.05	2461.0
317.00	661.0
317.95	244.0
318.40	76.0
319.60	223.0
320.00	142.0
321.00	1302.0
321.80	587.0
322.95	15374.0
323.85	3864.0
324.90	86.0
325.20	179.0
325.60	198.0
325.90	156.0
326.90	745.0
327.10	2051.0
327.80	306.0
328.00	1463.0
329.00	481.0
329.50	105.0
330.25	256.0
331.05	203.0
332.00	999.0
332.70	558.0
332.95	973.0
334.00	8134.0
334.90	1600.0
335.60	119.0
336.00	59.0
337.05	125.0
338.85	329.0
339.50	65.0
340.00	192.0
340.80	518.0
341.05	1452.0
341.40	62.0
341.60	197.0
342.05	454.0
342.90	89.0
344.10	91.0
345.95	2373.0
347.00	410.0
348.10	57.0
349.60	53.0
349.90	63.0
350.75	322.0

351.70	1177.0
351.95	2374.0
352.95	2791.0
353.80	798.0
354.00	2675.0
354.60	300.0
355.10	464.0
355.60	109.0
356.70	150.0
357.70	81.0
357.80	394.0
358.85	750.0
360.60	100.0
361.20	77.0
362.00	155.0
362.60	101.0
362.90	70.0
363.85	633.0
364.95	19271.0
365.80	821.0
365.95	2696.0
368.80	248.0
369.90	220.0
370.10	276.0
370.75	852.0
371.00	280.0
371.85	4640.0
372.10	1591.0
372.80	444.0
372.95	1129.0
373.75	317.0
374.10	135.0
374.80	92.0
375.70	92.0
376.70	243.0
377.20	264.0
382.70	730.0
383.00	1861.0
383.80	594.0
384.10	182.0
384.80	57.0
385.00	99.0
385.70	114.0
386.00	66.0
386.70	122.0
389.05	190.0
389.80	329.0
390.15	983.0
390.45	365.0
391.10	443.0
391.40	265.0
391.85	434.0
392.20	152.0
392.90	69.0
393.30	231.0
396.90	61.0
397.20	55.0
400.85	1017.0
401.70	946.0
401.95	1929.0
402.95	4186.0
403.60	388.0
403.80	443.0
404.05	959.0
404.70	461.0
405.00	185.0
406.80	114.0
408.70	143.0
409.20	57.0
409.60	103.0
410.00	145.0
411.00	89.0
413.60	88.0
414.00	333.0
414.70	101.0
415.10	97.0
415.60	74.0

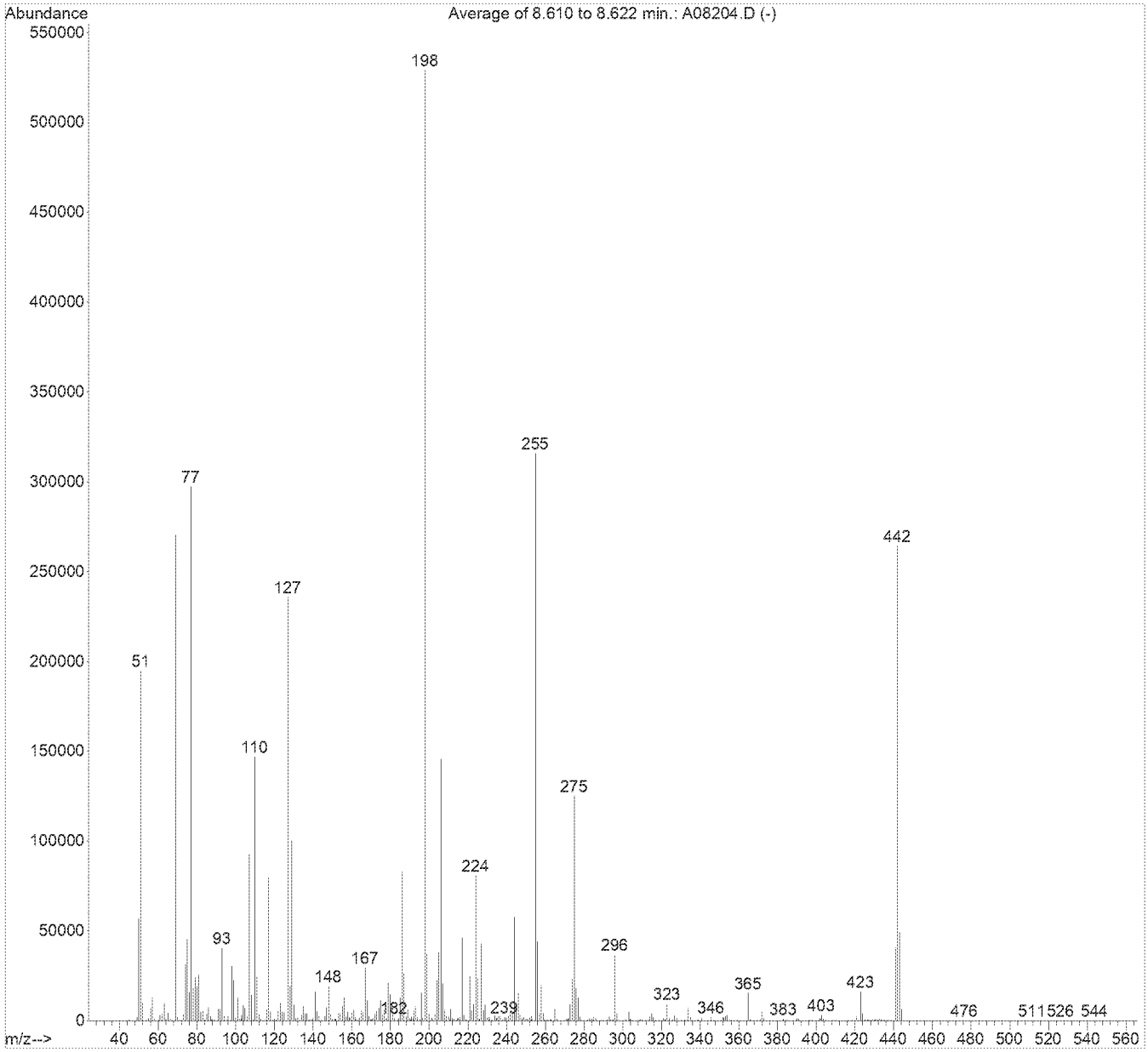
416.20	93.0
417.85	213.0
418.70	158.0
418.95	217.0
419.80	187.0
420.20	214.0
420.80	1412.0
421.05	2302.0
421.95	3223.0
422.95	22261.0
423.95	4166.0
424.70	135.0
425.30	198.0
425.70	88.0
425.95	391.0
426.60	345.0
427.10	432.0
428.05	911.0
428.60	391.0
428.90	150.0
429.40	1016.0
430.30	1330.0
430.80	521.0
431.20	139.0
431.45	414.0
431.70	251.0
432.00	192.0
432.30	320.0
432.60	679.0
433.30	766.0
433.90	524.0
434.10	316.0
434.40	230.0
434.60	359.0
435.25	696.0
435.65	726.0
436.30	218.0
436.55	708.0
436.80	158.0
437.45	554.0
438.00	164.0
438.30	305.0
438.70	171.0
439.00	394.0
439.45	711.0
439.70	649.0
440.95	58282.0
441.90	394666.0
442.95	75029.0
443.90	4575.0
445.20	126.0
461.30	95.0
479.10	81.0
492.60	61.0
529.30	179.0
538.00	52.0

File : C:\MSDCHEM 1\DATA\MS60629L.MIZ\A08175.D
Operator : MIZ
Acquired : 29 Jun 2011 1:04 pm using AcqMethod WLDDFTP1
Instrument : DEL6
Sample Name: DFTPP
Misc Info : 6/28/2011
Vial Number: 1



DFTPP CLP Results

C:\MSDCHEM1\DATA\MS60705L.MIZ\A08204.D Thu Jul 07 12:38:56 2011

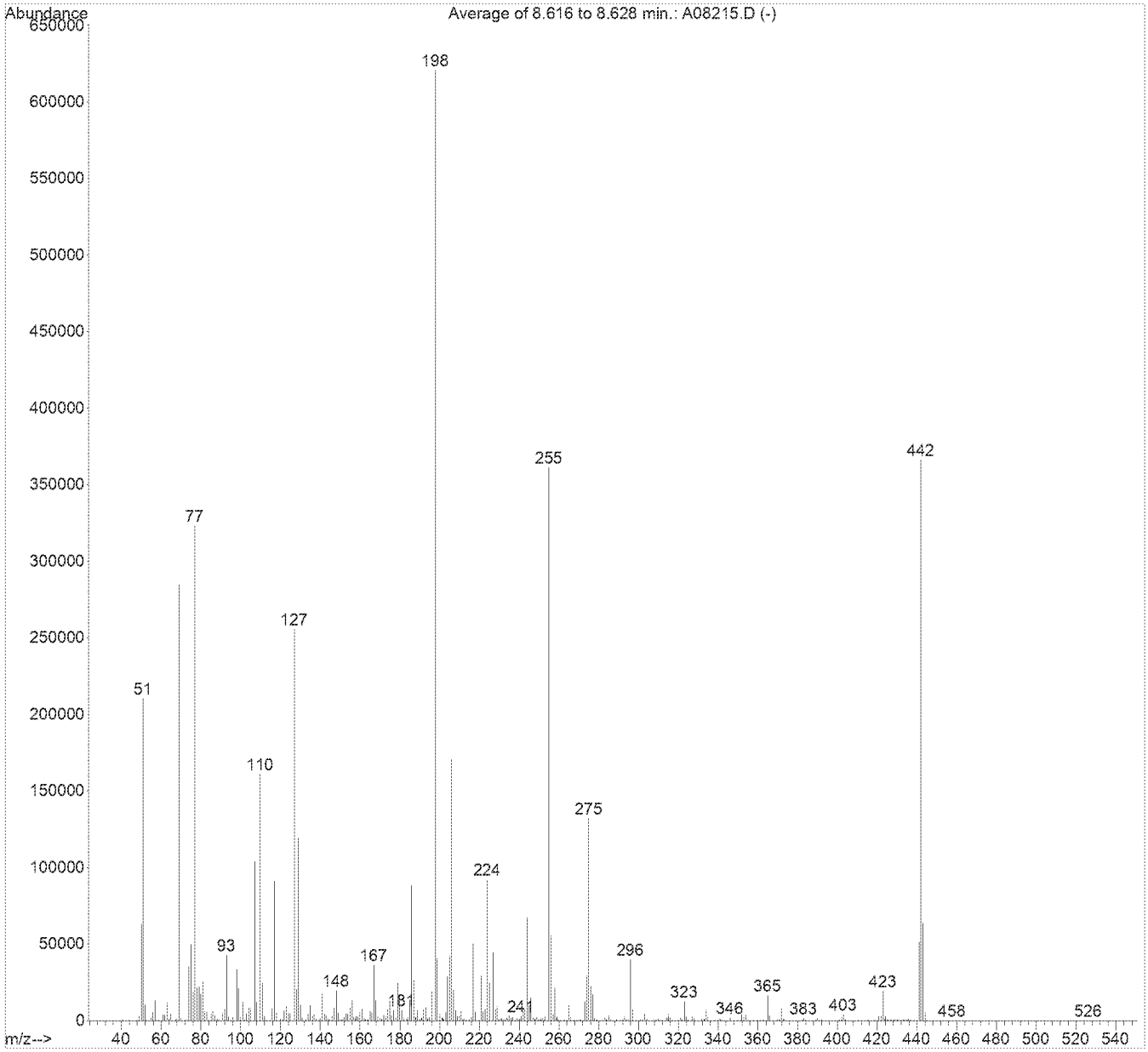


Peak Apex is scan: 951
Average of 3 scans: 950,951,952 minus background scan 931

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
51	198	30	80	36.8	PASS
68	69	0	2	0.0	PASS
69	198	0	100	51.1	PASS
70	69	0	2	0.8	PASS
127	198	25	75	44.5	PASS
197	198	0	1	0.0	PASS
198	198	100	100	100.0	PASS
199	198	5	9	7.0	PASS
275	198	10	30	23.6	PASS
365	198	1	100	2.9	PASS
441	443	0	100	82.9	PASS
442	198	40	110	49.9	PASS
443	442	15	24	18.6	PASS

DFTPP CLP Results

C:\MSDCHEM1\DATA\MS60706L.MIZ\A08215.D Thu Jul 07 12:39:57 2011



Peak Apex is scan: 952
Average of 3 scans: 951,952,953 minus background scan 932

Target Mass	Comparison Mass	Lower Limit,%	Upper Limit,%	Relative Abundance,%	Result Pass/Fail
51	198	30	80	33.9	PASS
68	69	0	2	0.4	PASS
69	198	0	100	45.9	PASS
70	69	0	2	0.4	PASS
127	198	25	75	41.2	PASS
197	198	0	1	0.0	PASS
198	198	100	100	100.0	PASS
199	198	5	9	6.5	PASS
275	198	10	30	21.3	PASS
365	198	1	100	2.6	PASS
441	443	0	100	80.8	PASS
442	198	40	110	59.0	PASS
443	442	15	24	17.4	PASS

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08177.D Vial: 7
Acq On : 29 Jun 2011 2:04 pm Operator: MIZ
Sample : METHOD BLANK Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 14:52:25 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.66	152	29234	20.00 ng/µl	-0.02
19) Naphthalene-d8	7.12	136	113028	20.00 ng/µl	-0.02
34) Acenaphthene-d10	9.95	164	73500	20.00 ng/µl	-0.02
56) Phenanthrene-d10	12.76	188	145206	20.00 ng/µl	-0.02
68) Chrysene-d12	18.13	240	156117	20.00 ng/µl	-0.03
76) Perylene-d12	21.02	264	135545	20.00 ng/µl	-0.04

System Monitoring Compounds

2) 2-Fluorophenol	4.59	112	197778	56.16 ng/µl	-0.01
Spiked Amount 75.000	Range 21 - 110		Recovery = 74.88%		
4) Phenol-d5	5.33	99	307586	61.13 ng/µl	-0.01
Spiked Amount 75.000	Range 10 - 110		Recovery = 81.51%		
6) 2-Chlorophenol-d4	5.49	132	189879	57.42 ng/µl	-0.01
Spiked Amount 75.000	Range 33 - 110		Recovery = 76.56%		
11) 1,2-Dichlorobenzene-d4	5.85	152	94226	37.40 ng/µl	-0.02
Spiked Amount 50.000	Range 16 - 110		Recovery = 74.80%		
20) Nitrobenzene-d5	6.25	82	225563	40.43 ng/µl	-0.02
Spiked Amount 50.000	Range 34 - 114		Recovery = 80.86%		
38) 2-Fluorobiphenyl	8.74	172	366729	38.75 ng/µl	-0.02
Spiked Amount 50.000	Range 43 - 116		Recovery = 77.50%		
55) 2,4,6-Tribromophenol	11.44	330	61116	59.42 ng/µl	-0.03
Spiked Amount 75.000	Range 10 - 123		Recovery = 79.23%		
70) Terphenyl-d14	16.00	244	446443	45.65 ng/µl	-0.02
Spiked Amount 50.000	Range 33 - 141		Recovery = 91.30%		

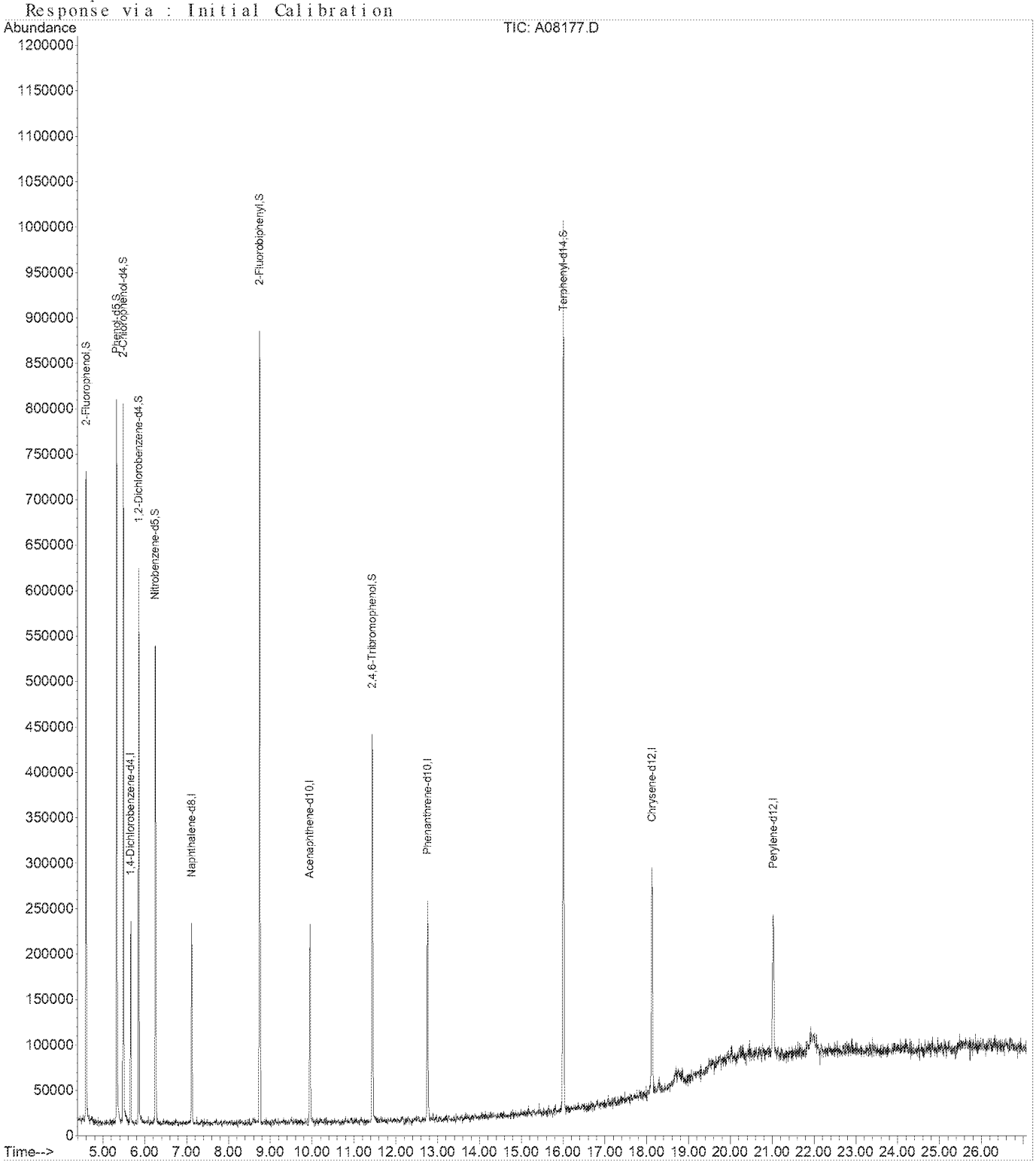
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08177.D Vial: 7
Acq On : 29 Jun 2011 2:04 pm Operator: MIZ
Sample : METHOD BLANK Inst : DEL6
Msc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 29 14:53 2011 Quant Results File: I60629.RES

Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM 1\DATA\MS60629L.MIZ\A08177.D Vial: 7
Acq On : 29 Jun 2011 2:04 pm Operator: MIZ
Sample : METHOD BLANK Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM 1\METHODS\I60629.M(RTE Integrator)
Title : HSCA TCL + ANILINE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

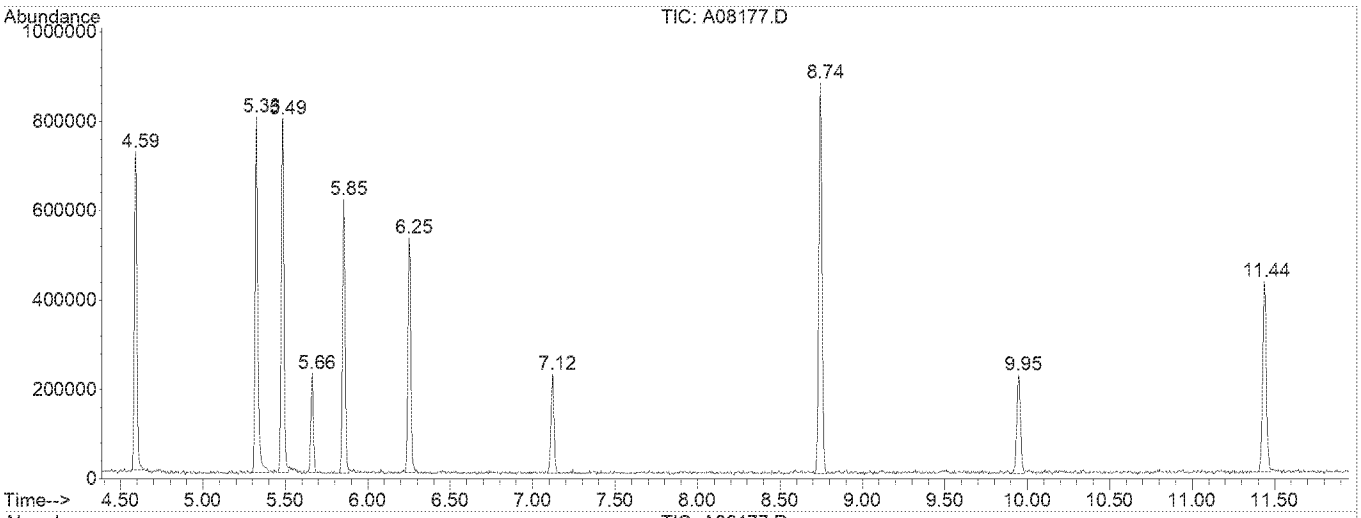
Signal : TIC

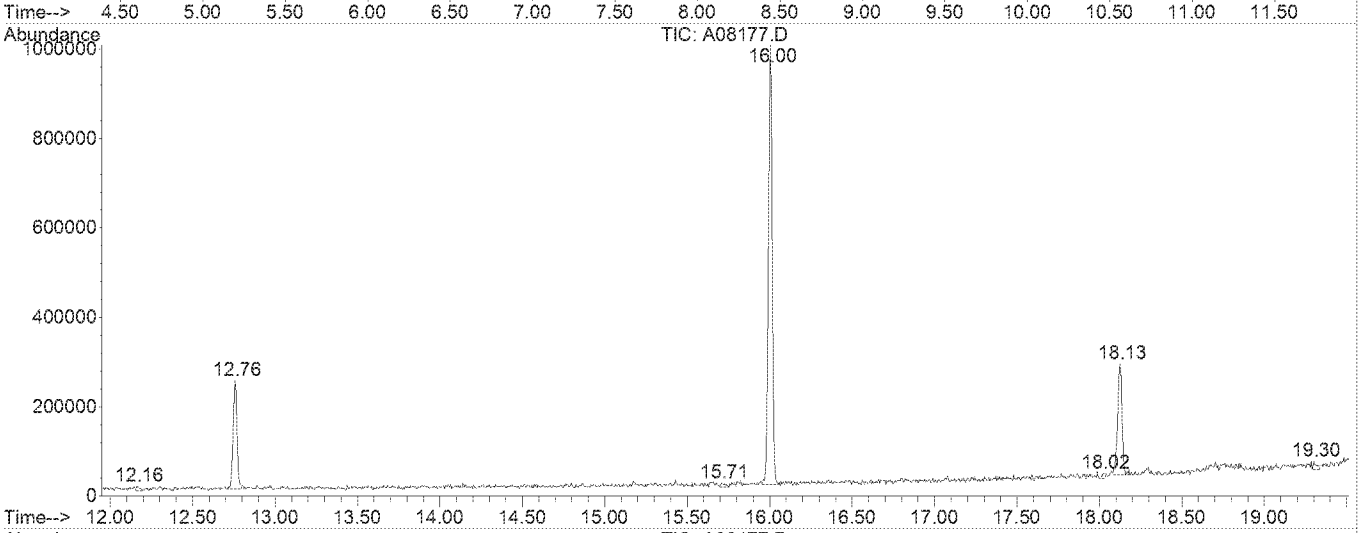
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.593	36	40	48	rVB	710546	762401	48.59%	7.863%
2	5.325	172	177	192	rBV	795732	911953	58.13%	9.405%
3	5.486	200	207	213	rBV	791506	914090	58.26%	9.427%
4	5.662	236	240	245	rVB	220940	228316	14.55%	2.355%
5	5.854	270	276	282	rBV	610814	688797	43.90%	7.104%
6	6.250	345	350	358	rBV	524282	618513	39.42%	6.379%
7	7.120	507	513	522	rVB	221440	286845	18.28%	2.958%
8	8.744	810	817	824	rVB	873019	1186840	75.65%	12.240%
9	9.946	1033	1042	1049	rBV2	221806	359137	22.89%	3.704%
10	11.437	1315	1321	1328	rBV4	425510	665339	42.41%	6.862%
11	12.163	1455	1457	1464	rVB8	9814	16874	1.08%	0.174%
12	12.756	1558	1568	1575	rBV2	242210	393404	25.07%	4.057%
13	15.711	2118	2121	2129	rVB8	8766	18966	1.21%	0.196%
14	16.005	2166	2176	2185	rBV2	981442	1568929	100.00%	16.181%
15	18.024	2550	2554	2556	rBV4	12276	16384	1.04%	0.169%
16	18.125	2564	2573	2579	rVB2	246788	457834	29.18%	4.722%
17	19.301	2791	2793	2800	rBV7	17584	28513	1.82%	0.294%
18	19.787	2883	2884	2888	rBV4	13247	17655	1.13%	0.182%
19	20.390	2995	2997	3000	rBV4	13589	19369	1.23%	0.200%
20	20.476	3010	3013	3017	rBV6	14360	19980	1.27%	0.206%
21	21.021	3107	3115	3122	rBV3	152228	351572	22.41%	3.626%
22	21.897	3277	3279	3282	rBV4	17327	15762	1.00%	0.163%
23	21.924	3282	3284	3291	rVV8	20227	24845	1.58%	0.256%
24	22.896	3462	3466	3467	rBV4	17160	16498	1.05%	0.170%
25	23.393	3557	3559	3562	rBV4	21676	18783	1.20%	0.194%
26	24.654	3791	3795	3797	rBV5	18973	20041	1.28%	0.207%
27	24.958	3849	3852	3855	rBV5	22007	25683	1.64%	0.265%
28	25.738	3996	3998	3999	rBV2	20794	15897	1.01%	0.164%
29	26.881	4208	4212	4214	rBV5	18690	27116	1.73%	0.280%

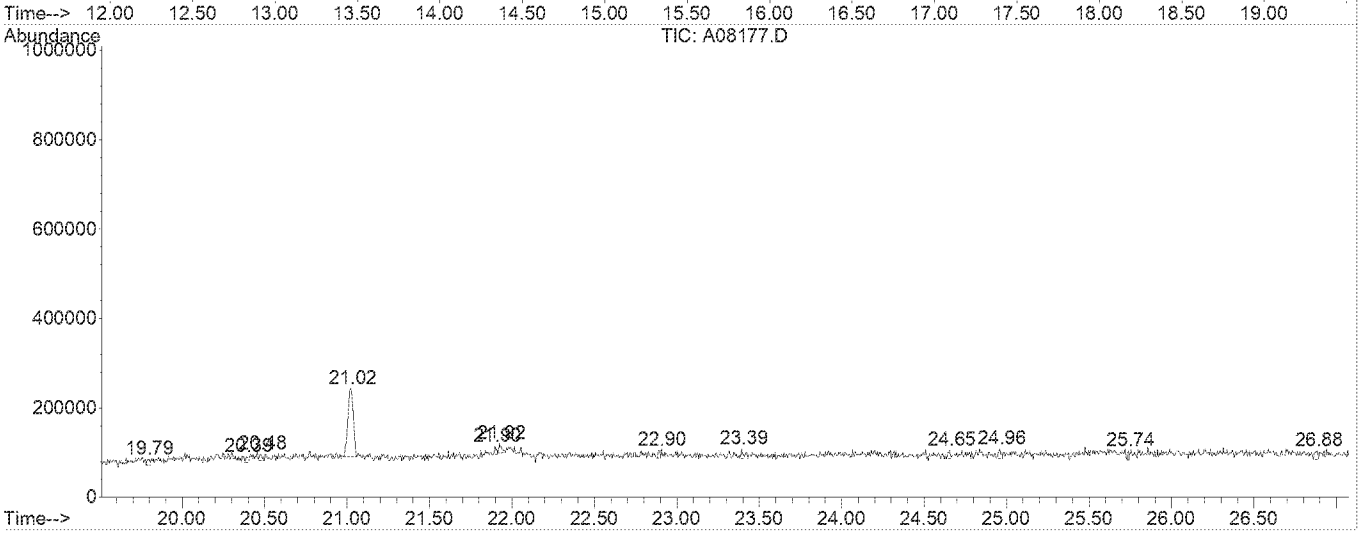
Sum of corrected areas: 9696336

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM 1\DATA\MS60629L.MIZ\A08177.D
Operator : MIZ
Acquired : 29 Jun 2011 2:04 pm using AcqMethod SVOA-LIQ
Instrument : DEL6
Sample Name: METHOD BLANK
Misc Info : 1
Vial Number: 7
Quant File : I60629.RES (RTE Integrator)







Tentatively Identified Compound (LSC) summary

Operator ID: MIZ Date Acquired: 29 Jun 2011 2:04 pm
Data File: C:\MSDCHEM1\DATA\MS60629L.MIZ\A08177.D
Name: METHOD BLANK
Misc: 1
Method: C:\MSDCHEM1\METHODS\I60629.M(RTE Integrator)
Title: HSCA TCL + ANILINE
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--- #	RT	Resp	Conc

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM.1\DATA\MS60706L.MIZ\A08220.D Vial: 4
Acq On : 6 Jul 2011 12:46 pm Operator: MIZ
Sample : METHOD BLANK 2 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 06 13:34:47 2011 Quant Results File: I60705B.RES

Quant Method : C:\MSDCHEM.1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.62	152	61636	20.00 ng/µl	0.00
19) Naphthalene-d8	7.06	136	192003	20.00 ng/µl	0.00
34) Acenaphthene-d10	9.89	164	117709	20.00 ng/µl	0.00
56) Phenanthrene-d10	12.69	188	231071	20.00 ng/µl	0.00
68) Chrysene-d12	18.05	240	247994	20.00 ng/µl	0.00
76) Perylene-d12	20.92	264	201866	20.00 ng/µl	0.00
System Monitoring Compounds					
2) 2-Fluorophenol	4.56	112	369106	48.80 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 65.07%		
4) Phenol-d5	5.28	99	560770	51.42 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 68.56%		
6) 2-Chlorophenol-d4	5.44	132	346232	48.47 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 64.63%		
11) 1,2-Dichlorobenzene-d4	5.81	152	166456	31.53 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 63.06%		
20) Nitrobenzene-d5	6.20	82	394511	38.52 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 77.04%		
38) 2-Fluorobiphenyl	8.69	172	609254	37.26 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 74.52%		
55) 2,4,6-Tribromophenol	11.37	330	98080	59.97 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 79.96%		
70) Terphenyl-d14	15.93	244	717272	42.30 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 84.60%		

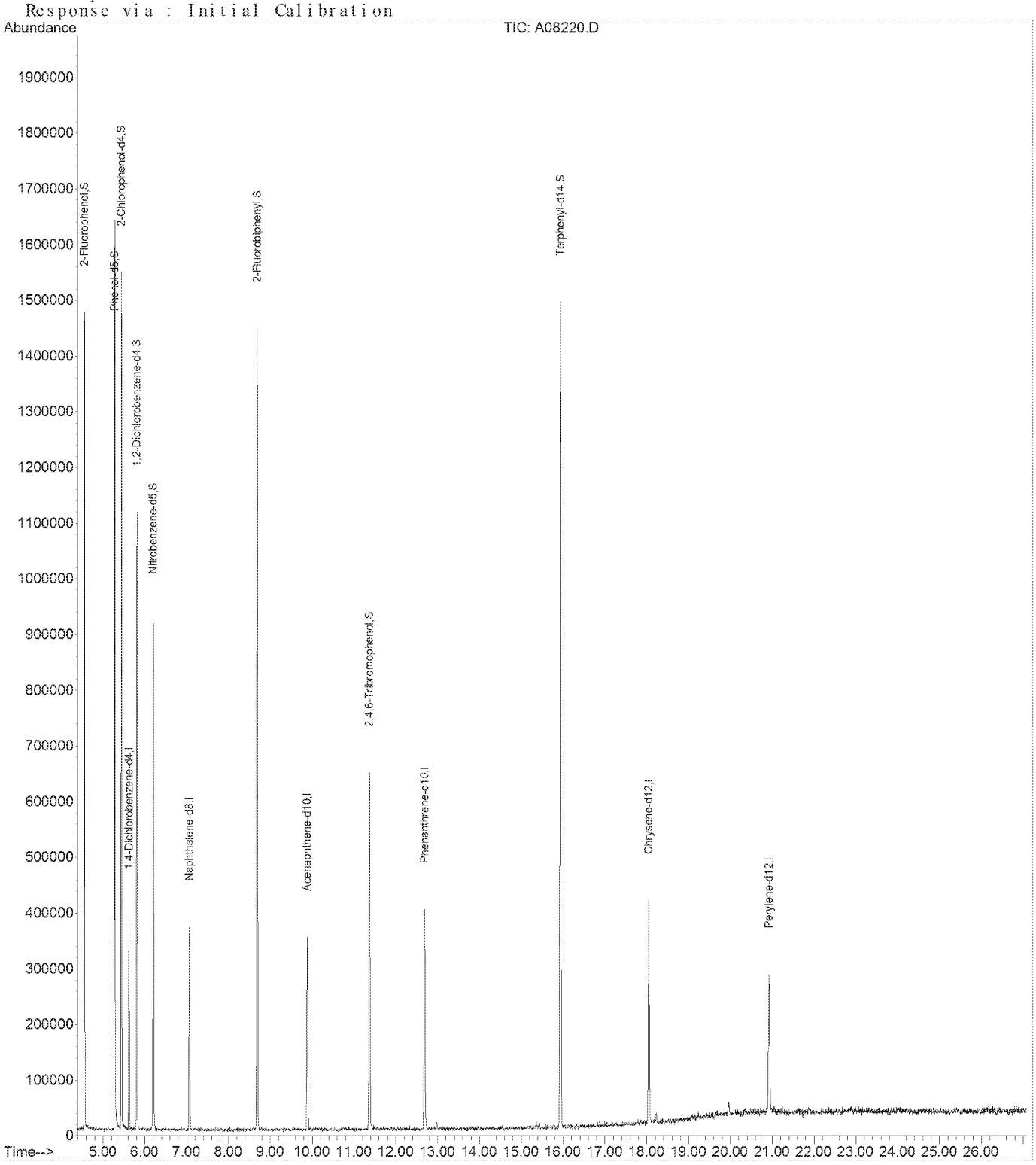
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60706L.MIZ\A08220.D Vial: 4
Acq On : 6 Jul 2011 12:46 pm Operator: MIZ
Sample : METHOD BLANK 2 Inst : DEL6
Msc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jul 7 8:35 2011 Quant Results File: I60705B.RES

Method : C:\MSDCHEM\1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jul 06 11:45:36 2011
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\MSDCHEM1\DATA\MS60706L.MIZ\A08220.D Vial: 4
Acq On : 6 Jul 2011 12:46 pm Operator: MIZ
Sample : METHOD BLANK 2 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\MSDCHEM1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 5000 Area counts
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

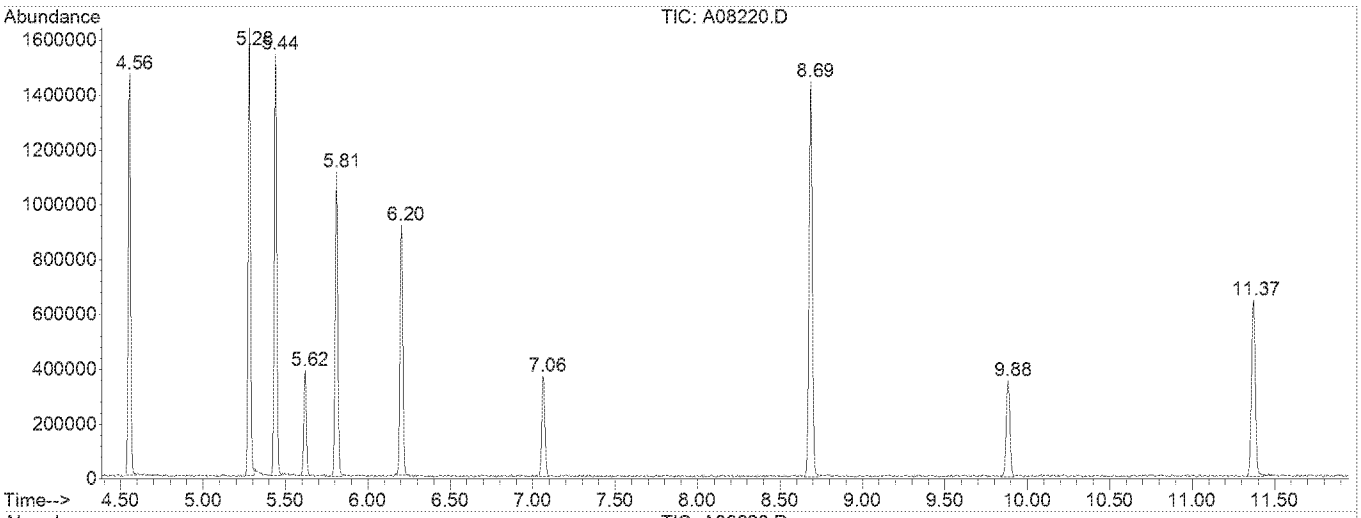
Signal : TIC

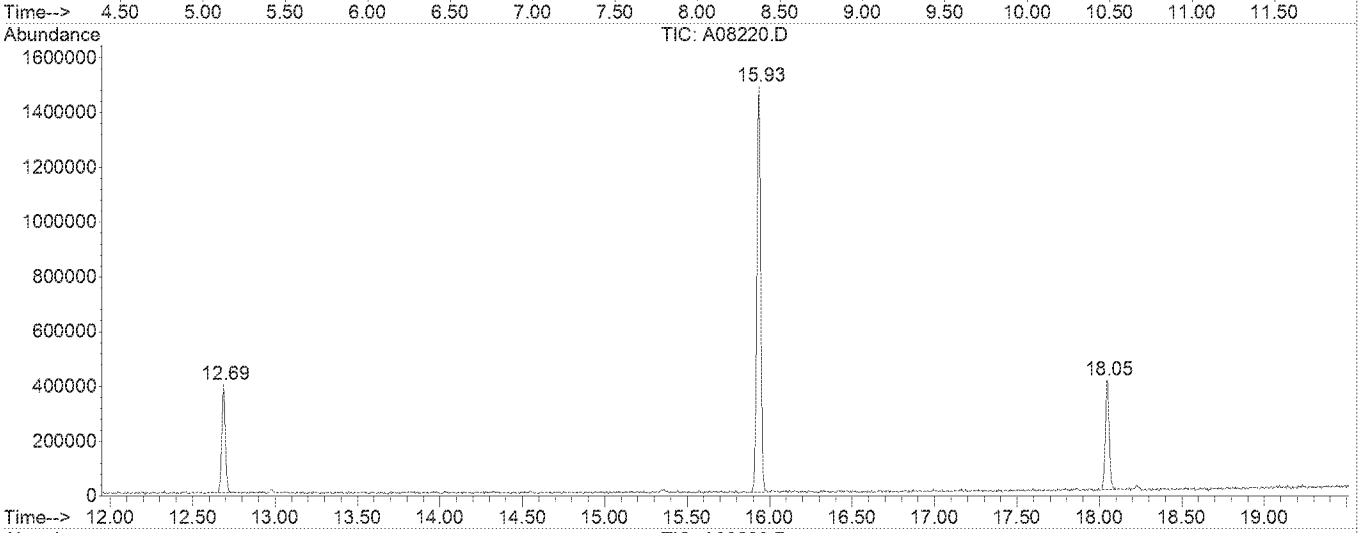
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.556	28	33	41	rBV	1464858	1464142	60.66%	9.322%
2	5.282	164	169	174	rBV	1632992	1563147	64.76%	9.953%
3	5.437	193	198	205	rBV	1538369	1657973	68.69%	10.556%
4	5.619	227	232	237	rBV	383763	419604	17.39%	2.672%
5	5.811	259	268	275	rBV	1109650	1236811	51.24%	7.875%
6	6.201	336	341	349	rVB	910950	1071541	44.40%	6.823%
7	7.061	496	502	509	rBV	366159	477870	19.80%	3.043%
8	8.685	798	806	816	rVB	1441053	1968893	81.58%	12.536%
9	9.882	1022	1030	1037	rBV2	348383	560945	23.24%	3.572%
10	11.373	1301	1309	1320	rBV2	641063	1033338	42.81%	6.579%
11	12.687	1548	1555	1564	rBV	393815	592785	24.56%	3.774%
12	15.935	2154	2163	2170	rBV2	1481918	2413596	100.00%	15.368%
13	18.045	2551	2558	2570	rBV	399795	662026	27.43%	4.215%
14	19.952	2908	2915	2924	rBV	25815	62318	2.58%	0.397%
15	20.925	3088	3097	3105	rBV	243003	520742	21.58%	3.316%

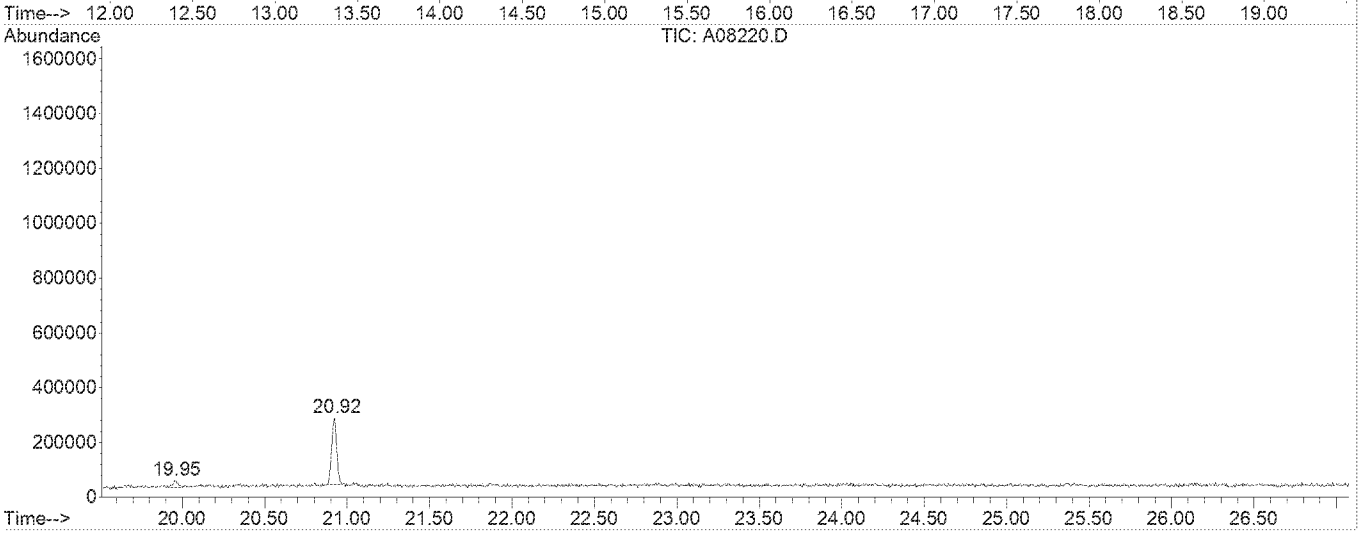
Sum of corrected areas: 15705731

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM 1\DATA\MS60706L.MIZ\A08220.D
Operator : MIZ
Acquired : 6 Jul 2011 12:46 pm using AcqMethod SVOA-LIQ
Instrument : DEL6
Sample Name: METHOD BLANK 2
Misc Info : 1
Vial Number: 4
Quant File : I60705B.RES (RTE Integrator)







Library Search Compound Report

Data File : C:\MSDCHEM 1\DATA\MS60706L.MIZ\A08220.D Vial: 4
Acq On : 6 Jul 2011 12:46 pm Operator: MIZ
Sample : METHOD BLANK 2 Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: LSCINT.P

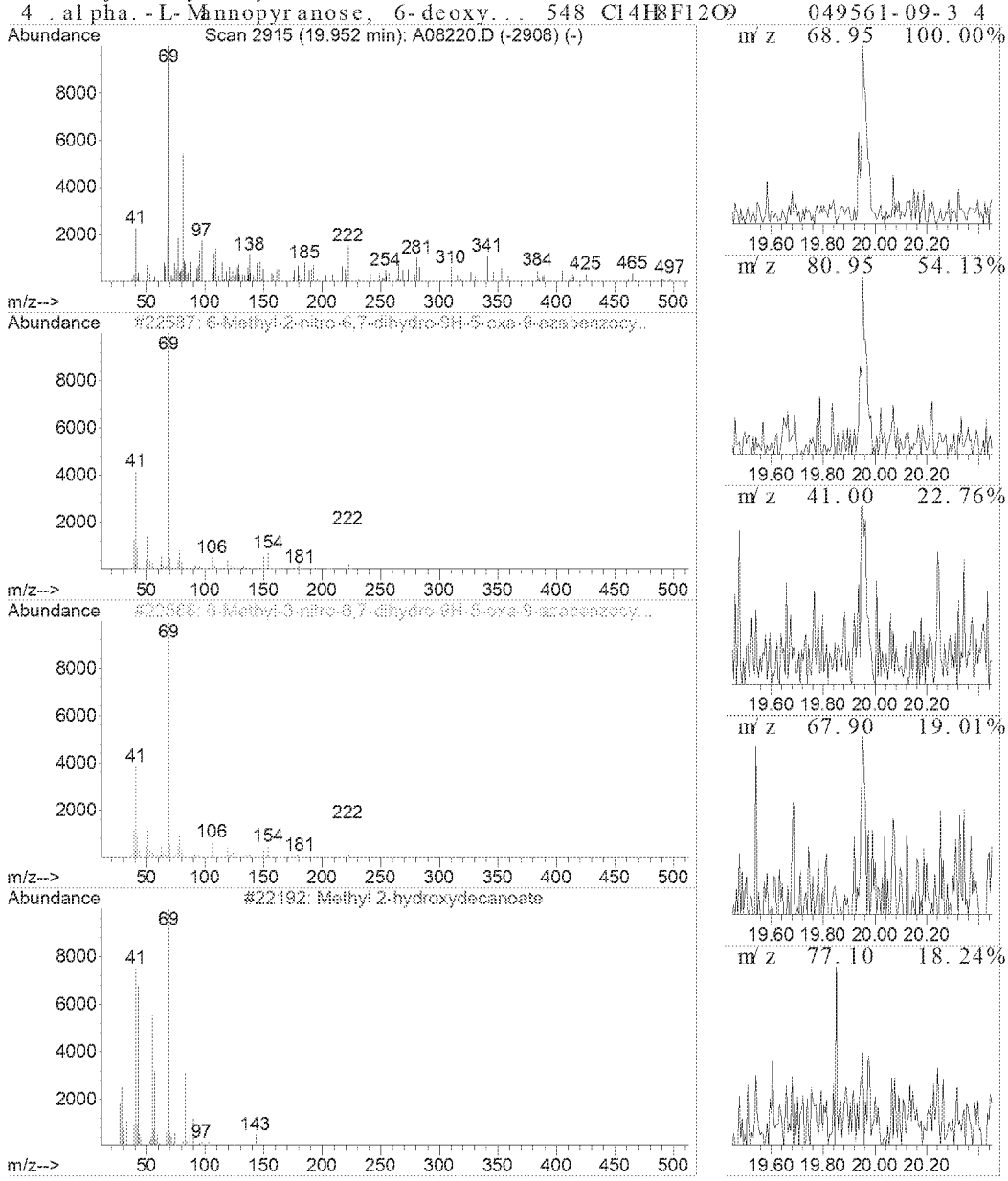
Quant Method : C:\MSDCHEM 1\METHODS\I60705B.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Library : C:\DATABASE\NIST98.L

****

Peak Number 1 Unknown Concentration Rank 1

R.T.	Est Conc	Area	Relative to ISTD	R.T.
19.95	2.39 ng/µl	62318	Perylene-d12	20.92

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	6-Methyl-2-nitro-6,7-dihydro-9H-...	222	C10H10N2O4	134076-74-7	42
2	6-Methyl-3-nitro-6,7-dihydro-9H-...	222	C10H10N2O4	134076-63-4	36
3	Methyl 2-hydroxydecanoate	202	C11H22O3	071271-24-4	9
4	.alpha.-L-Mannopyranose, 6-deoxy...	548	C14H8F12O9	049561-09-3	4



Tentatively Identified Compound (LSC) summary

Operator ID: MIZ Date Acquired: 6 Jul 2011 12:46 pm
Data File: C:\MSDCHEM 1\DATA\MS60706L.MIZ\A08220.D
Name: METHOD BLANK 2
Misc: 1
Method: C:\MSDCHEM 1\METHODS\I60705B.M(RTE Integrator)
Title: HSCA TCL + ANILINE
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	Est Conc	Units	Response	--Internal Standard--- #	RT	Resp	Conc
Unknown	19.95	2.4	ng/µl	62318	6	20.92	520742	20.0

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08187.D Vial: 8
Acq On : 29 Jun 2011 8:11 pm Operator: MIZ
Sample : LCS-W Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 30 08:11:27 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.67	152	22727	20.00	ng/µl	0.00
19) Naphthalene-d8	7.14	136	80461	20.00	ng/µl	0.00
34) Acenaphthene-d10	9.96	164	56369	20.00	ng/µl	0.00
56) Phenanthrene-d10	12.77	188	113418	20.00	ng/µl	0.00
68) Chrysene-d12	18.14	240	118715	20.00	ng/µl	-0.01
76) Perylene-d12	21.05	264	98701	20.00	ng/µl	-0.01
System Monitoring Compounds						
2) 2-Fluorophenol	4.60	112	123837	45.23	ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 60.31%			
4) Phenol-d5	5.34	99	194595	49.75	ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 66.33%			
6) 2-Chlorophenol-d4	5.50	132	123241	47.94	ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 63.92%			
11) 1,2-Dichlorobenzene-d4	5.87	152	64684	33.03	ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 66.06%			
20) Nitrobenzene-d5	6.27	82	154127	38.81	ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 77.62%			
38) 2-Fluorobiphenyl	8.76	172	272279	37.51	ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 75.02%			
55) 2,4,6-Tribromophenol	11.46	330	37176	47.13	ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 62.84%			
70) Terphenyl-d14	16.02	244	322725	43.40	ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 86.80%			

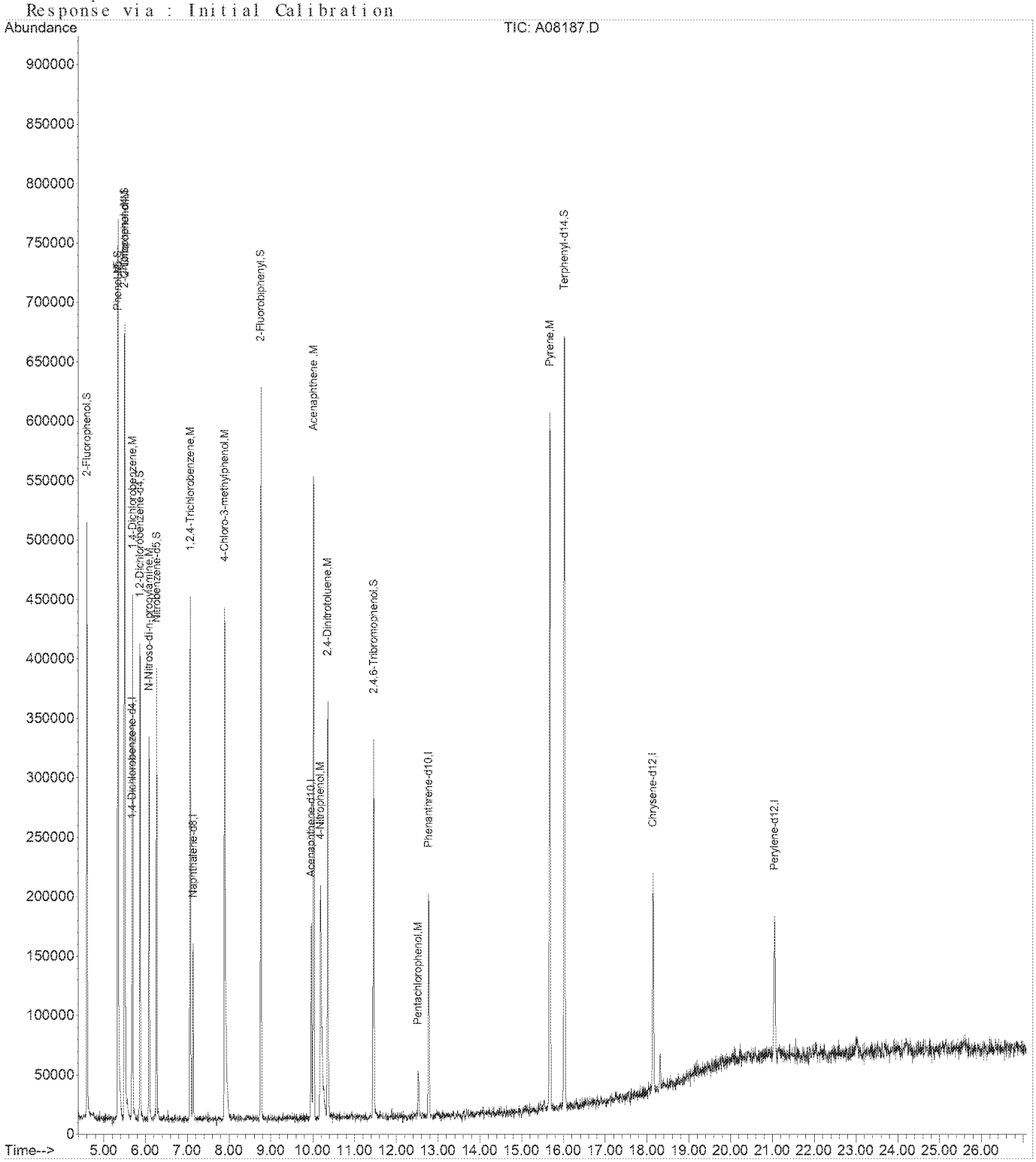
Target Compounds						Qvalue
5) Phenol	5.35	94	206525	52.75	ng/µl	88
7) 2-Chlorophenol	5.51	128	119452	48.23	ng/µl	91
10) 1,4-Dichlorobenzene	5.69	146	95586	30.92	ng/µl	99
18) N-Nitroso-di-n-propylamine	6.08	70	104282	40.00	ng/µl #	71
27) 1,2,4-Trichlorobenzene	7.07	180	97634	36.43	ng/µl #	77
32) 4-Chloro-3-methylphenol	7.89	107	167749	59.35	ng/µl	82
46) Acenaphthene	10.03	153	198124	37.79	ng/µl	97
49) 4-Nitrophenol	10.19	109	89397	59.22	ng/µl #	37
50) 2,4-Dinitrotoluene	10.36	165	82005	40.44	ng/µl	73
62) Pentachlorophenol	12.53	266	4811	8.94	ng/µl	84
69) Pyrene	15.67	202	444391	42.76	ng/µl	79

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08187.D Vial: 8
Acq On : 29 Jun 2011 8:11 pm Operator: MIZ
Sample : LCS-W Inst : DEL6
Msc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 30 8:53 2011 Quant Results File: I60629.RES

Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08179.D Vial: 9
Acq On : 29 Jun 2011 3:18 pm Operator: MIZ
Sample : LCSD-W Inst : DEL6
Misc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 30 08:10:41 2011 Quant Results File: I60629.RES

Quant Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration
DataAcq Meth : SVOA-LIQ

Internal Standards	R.T.	Qion	Response	Conc Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.67	152	20576	20.00 ng/µl	0.00
19) Naphthalene-d8	7.14	136	71702	20.00 ng/µl	0.00
34) Acenaphthene-d10	9.97	164	45085	20.00 ng/µl	0.00
56) Phenanthrene-d10	12.78	188	98056	20.00 ng/µl	0.00
68) Chrysene-d12	18.14	240	122343	20.00 ng/µl	-0.01
76) Perylene-d12	21.05	264	108026	20.00 ng/µl	0.00
System Monitoring Compounds					
2) 2-Fluorophenol	4.60	112	85952	34.67 ng/µl	0.00
Spiked Amount 75.000	Range 21 - 110		Recovery = 46.23%		
4) Phenol-d5	5.34	99	136016	38.41 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 110		Recovery = 51.21%		
6) 2-Chlorophenol-d4	5.50	132	100450	43.16 ng/µl	0.00
Spiked Amount 75.000	Range 33 - 110		Recovery = 57.55%		
11) 1,2-Dichlorobenzene-d4	5.87	152	49503	27.92 ng/µl	0.00
Spiked Amount 50.000	Range 16 - 110		Recovery = 55.84%		
20) Nitrobenzene-d5	6.27	82	115958	32.77 ng/µl	0.00
Spiked Amount 50.000	Range 34 - 114		Recovery = 65.54%		
38) 2-Fluorobiphenyl	8.76	172	186545	32.13 ng/µl	0.00
Spiked Amount 50.000	Range 43 - 116		Recovery = 64.26%		
55) 2,4,6-Tribromophenol	11.46	330	31669	50.20 ng/µl	0.00
Spiked Amount 75.000	Range 10 - 123		Recovery = 66.93%		
70) Terphenyl-d14	16.02	244	269125	35.12 ng/µl	0.00
Spiked Amount 50.000	Range 33 - 141		Recovery = 70.24%		

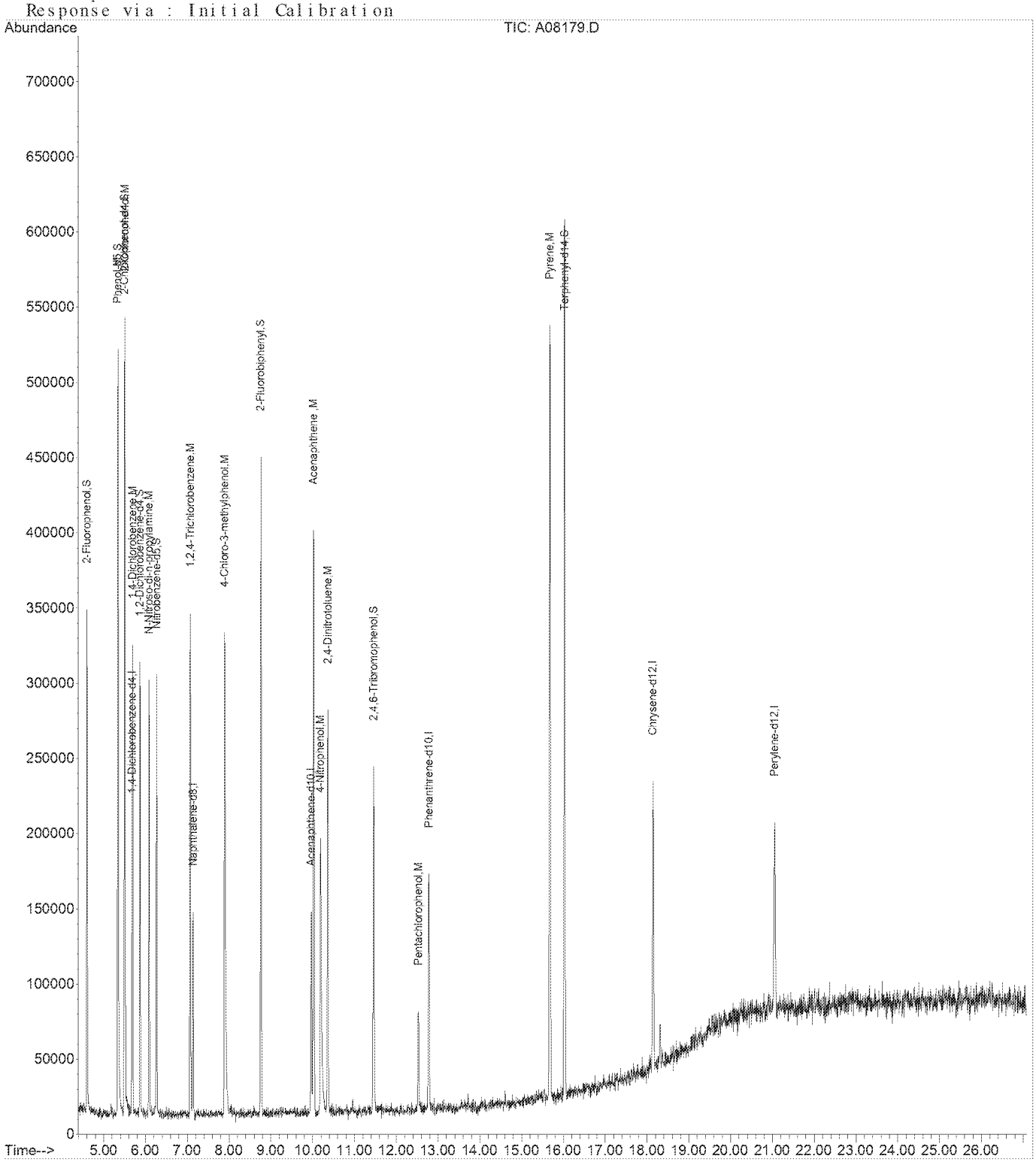
Target Compounds					Qvalue
5) Phenol	5.35	94	137061	38.67 ng/µl	83
7) 2-Chlorophenol	5.51	128	98277	43.83 ng/µl	90
10) 1,4-Dichlorobenzene	5.69	146	69108	24.69 ng/µl	85
18) N-Nitroso-di-n-propylamine	6.08	70	80992	34.31 ng/µl #	62
27) 1,2,4-Trichlorobenzene	7.07	180	68924	28.86 ng/µl	95
32) 4-Chloro-3-methylphenol	7.89	107	133168	52.87 ng/µl	83
46) Acenaphthene	10.02	153	144882	34.55 ng/µl	99
49) 4-Nitrophenol	10.19	109	63558	52.64 ng/µl #	40
50) 2,4-Dinitrotoluene	10.36	165	61956	38.20 ng/µl	96
62) Pentachlorophenol	12.53	266	10844	23.30 ng/µl	78
69) Pyrene	15.67	202	392747	36.67 ng/µl	86

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\MS60629L.MIZ\A08179.D Vial: 9
Acq On : 29 Jun 2011 3:18 pm Operator: MIZ
Sample : LCSD-W Inst : DEL6
Msc : 1 Multiplr: 1.00
MS Integration Params: I4SFSV.P
Quant Time: Jun 30 8:47 2011 Quant Results File: I60629.RES

Method : C:\MSDCHEM\1\METHODS\I60629.M (RTE Integrator)
Title : HSCA TCL + ANILINE
Last Update : Wed Jun 29 13:10:25 2011
Response via : Initial Calibration



Environmental Laboratory Section - Division of Water
Department of Natural Resources and Environmental Control
89 Kings Highway, Dover, DE 19901 (302) 739-9942

FIELD CHAIN OF CUSTODY

(Complete in BLUE ink)

Page 1 of 1

Client : Robert M. Schulte
Address : DNREC - Division of Air & Waste Management WASTE & HAZARDOUS SUBSTANCES
391 Lukens Drive, New Castle, DE 19720
Phone No.: (302) 395-2600

Report To : Robert M. Schulte
Invoice To : Robert M. Schulte
Account :
ELS Order ID : 1106041

PROJECT NAME: DE-0344 (Procino Plating)

SAMPLERS (Please Print): John Carroll / Krystal Stanley

(ELS Use Only) Lab Log No.	Client Sample Description	Sample Date	Sample Time	Matrix	Comp	Grab	No. Of Containers	VOA	SVOA	Metals (total & diss)	Chem 6/17/11					REMARKS
1106041-001	Trip Blank	4/25/11	1100	GW		✓	3	✓	X	X						
1106041-002	PPMW01	6/16/11	1330	GW		✓	7	✓	✓	✓						
1106041-003	PPMW02	6/16/11	1215	GW		✓	7	✓	✓	✓						
1106041-004	PPMW03	6/16/11	1015	GW		✓	12	✓	✓	✓						USE FOR MS/MSD
1106041-005	PPMW04	6/16/11	0845	GW		✓	7	✓	✓	✓						
1106041-006	PPMW05	6/17/11	1055	GW		✓	7	✓	✓	✓						
1106041-007	PPMW06	6/17/11	0945	GW		✓	7	✓	✓	✓						
1106041-008	DUP-1	6/16/11	NR	GW		✓	7	✓	✓	✓						

RELINQUISHED BY: (signature)	DATE	TIME	RECEIVED BY: (signature)
[signature]	6-17-11	1255	[signature]

DW - drinking water, ER - equip. rinsate, GW - ground water, Lab - lab water, LW - liquid waste, Sd - sediment, SL - sludge, SO - soil, SW - surface water, TI - tissue, WS - solid waste, WW - waste water

COMMENTS:

Is laboratory chain-of-custody required? Yes / No

ELS USE ONLY
Sample Conditions (circle response):
1. Samples match COC? Yes/No 2. Bottles supplied by ELS? Yes/No 3. Samples received broken/leaking? Yes/No 4. Cooler temp bottle 2-6 degrees? Yes/No/NA
5. Properly preserved? Yes/No 6. VOA/DO containers free of headspace? Yes/No/NA 7. Holding times expired? Yes/No 8. Volume sufficient for analysis? Yes/No

Coc04101

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LABORATORY CHAIN OF CUSTODY

Project: DE-0344 **Order #:** 1106041

Analysis Requested: TCL SVOC **Container(type/size):** 2.5 L amber jug

Sample Number	pH	Sample Number	pH
1106041 - 002			
003			
004			
005			
006			
007			
008			

Date/time 06 / 17 / 11 1255 **Sample Custodian** [signature]
mo day yr time (signature)

Comments:

Date 06/22/11 **Received by** [signature] **Time** 0935
mo day yr (signature)

Comments:

Date 6/29/11 **Received by** Renee Hemen **Time** 1430
mo day yr (signature)

Comments: to storage

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ORGANIC CHEMISTRY LABORATORY EXTRACTION SUMMARY

Project: Prolins Plating
Surrogate Std No. SW1128
Order Number 1106041
MS Std. No. SW1143
Date: 6/23/11

ELS Sample ID	Amount Extracted (mL/G)	Final Volume (mL)	Observations
MBLK	1000	1.0	
LCS-W	↓	↓	
LCSD-W			
1106041-001			
002			
003			
004			
005			
006			
007			
008			

Comments: QNS for MS/MSD.

Extracted by: [signature] Date: 6/23/11

00033

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00098

SEMIVOLATILES
DEL 6
INSTRUMENT RUN LOG

Project Name(s): Process Metering/Calibration
SDG No(s): 1106041
Target Parameters: TCL SVOA
Analytical Method 8270D

Tracking No(s):
DFTPP: SW1143
Target Cmpds: SW1149/50
ISTDs: SS1099

DATAFILE NAME	LAB ID	SAMPLE INFORMATION	RUN DATE	COMMENTS
A08167	—	DFTPP	6/29/11	
A08168	SSTD020	BNA Mix 1&2 020		5-pt
A08169	080	080		
A08170	080	080		5-pt
A08171	120	120		
A08172	160	160		
A08174	080	080		
A08175	—	DFTPP		
A08176	SSTD080	BNA Mix 1&2 080		
A08177	MBLK	Method Blank		
A08178	LCS-W	LCS-W		Istd out
A08179	LCSD-W	LCSD-W		
A08180	1106041-002	MW01		
A08181	003	02		Istd out
A08182	004	03		
A08183	005	04		Istd out
A08184	006	05		
A08185	007	06		Istd out
A08186	008	DUP-1		
A08187	LCS-W	LCS-W		ML
~~A08188~~	~~SSTD080~~	BNA Mix 1&2 080		

Analyzed by: MKemmerer
Date: 6/29/11

Data Directory: MS060629L.nje

00100

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SEMIVOLATILES
DEL 6
INSTRUMENT RUN LOG

Project Name(s): Calibration
SDG No(s): NA
Target Parameters: 8 TAL SVOA
Analytical Method 8270D

Tracking No(s):
DFTPP: SD1143
Target Cmpds: SW1491SD
ISTDs: SS1609

DATAFILE NAME	LAB ID	SAMPLE INFORMATION	RUN DATE	COMMENTS
AD8204	-	DFTPP	7/5/2011	
AD8210	SSD160	DNA Mix 1021160		
AD8211	120	120		
AD8212	080	080		
AD8213	050	050		
AD8214	020	020		

Analyzed by: [illegible]
Date: 7/5/11

Data Directory: MS607050.m

00101

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SEMIVOLATILES
DEL 6
INSTRUMENT RUN LOG

Project Name(s): Pacific Plating
SDG No(s): 1106041
Target Parameters: TCL SVOA
Analytical Method 8270D

Tracking No(s):
DFTPP: SW1143
Target Cmpds: SW1149/50
ISTDs: SS1699

DATAFILE NAME	LAB ID	SAMPLE INFORMATION	RUN DATE	COMMENTS
AD8215	–	DFTPP	7/6/2011	
AD8219	SSTD050	BNAMix 1/2 050		
AD8220	MBLK 2	Method Blank 2		
AD8221	1106041-003	MW01		
AD8222	003	04		
AD8223	003	06		
AD8224	SSTD050	BNA Mix 1/2 050		

Analyzed by: [illegible]
Date: 7/6/11

Data Directory: MS16D7016\[illegible]