New England ACCUTEST LABORATORIES

09/27/13

Technical Report for

Katahdin Analytical Services

RCNYCR: NWIRP Bethpage, NY

60266526 PO#125-15180-LA12-AT53

Accutest Job Number: MC24601

Sampling Date: 09/18/13

Report to:

Katahdin Analytical Services
600 Technology Way
Scarborough, ME 04074
jobrin@katahdinlab.com

ATTN: Jennifer Obrin

Total number of pages in report: **88**

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

Reza Tand
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) ISO 17025:2005 (L2235)

Test results relate only to samples analyzed.

Sections: 1 2 3 4 5 6 7

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Sample Summary

Katahdin Analytical Services

Job No: MC24601

RCNYCR: NWIRP Bethpage, NY
Project No: 60266526 PO#125-15180-LA12-AT53

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC24601-1	09/18/13	12:30	PK	09/20/13	AQ	Ground Water	TT102D2-091813
MC24601-2	09/18/13	00:00	PK	09/20/13	AQ	Ground Water	TRIP BLANK 091813

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Katahdin Analytical Services	**Job No**	MC24601
Site:	RCNYCR: NWIRP Bethpage, NY	**Report Date**	9/27/2013 9:45:49 AM

2 Sample(s) were collected on 09/18/2013 and were received at Accutest on 09/20/2013 properly preserved, at 0.8 Deg. C and intact. These Samples received an Accutest job number of MC24601. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

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

Volatiles by GCMS By Method EPA 524.2 REV 4.1

Matrix AQ **Batch ID:** MST1092

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC24310-1DUP were used as the QC samples indicated.
- MST1092-BS/BSD Recovery(s) for Dichlorodifluoromethane, Hexachlorobutadiene are outside control limits. Associated samples are non-detect for this compound.
- Continuing calibration check standard MST1092-CC1065 for dichlorodifluoromethane exceed criteria (response bias high). Associated sample is non-detect for this compound.

The Accutest Laboratories of New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Accutest Laboratories of NE, Laboratory Director or assignee as verified by the signature on the cover page has authorized the release of this report(MC24601).

Summary of Hits

Job Number: MC24601
Account: Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY
Collected: 09/18/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
MC24601-1	**TT102D2-091813**					
No hits reported in this sample.						
MC24601-2	**TRIP BLANK 091813**					
Chloroform		3.2	0.50	0.25	ug/l	EPA 524.2 REV 4.1
Methylene chloride		0.66	0.50	0.50	ug/l	EPA 524.2 REV 4.1

New England ACCUTEST LABORATORIES

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Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID: TT102D2-091813
Lab Sample ID: MC24601-1
Matrix: AQ - Ground Water
Method: EPA 524.2 REV 4.1
Project: RCNYCR: NWIRP Bethpage, NY

Date Sampled: 09/18/13
Date Received: 09/20/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T31366.D	1	09/24/13	JM	n/a	n/a	MST1092
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
71-43-2	Benzene	0.25 U	0.50	0.25	ug/l	
108-86-1	Bromobenzene	0.25 U	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	0.50 U	0.50	0.50	ug/l	
75-27-4	Bromodichloromethane	0.25 U	0.50	0.25	ug/l	
75-25-2	Bromoform	0.50 U	0.50	0.50	ug/l	
74-83-9	Bromomethane	0.50 U	0.50	0.50	ug/l	
104-51-8	n-Butylbenzene	0.25 U	0.50	0.25	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	0.50	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.25 U	0.50	0.25	ug/l	
108-90-7	Chlorobenzene	0.25 U	0.50	0.25	ug/l	
75-00-3	Chloroethane	0.50 U	0.50	0.50	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	ug/l	
74-87-3	Chloromethane	0.50 U	0.50	0.50	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	0.50	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.25 U	0.50	0.25	ug/l	
56-23-5	Carbon tetrachloride	0.25 U	0.50	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	0.50	0.50	ug/l	
563-58-6	1,1-Dichloropropene	0.25 U	0.50	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	0.50	0.50	ug/l	
106-93-4	1,2-Dibromoethane	0.50 U	0.50	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	ug/l	
142-28-9	1,3-Dichloropropane	0.25 U	0.50	0.25	ug/l	
594-20-7	2,2-Dichloropropane	0.25 U	0.50	0.25	ug/l	
124-48-1	Dibromochloromethane	0.50 U	0.50	0.50	ug/l	
74-95-3	Dibromomethane	0.50 U	0.50	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	0.50	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.25 U	0.50	0.25	ug/l	
541-73-1	m-Dichlorobenzene	0.25 U	0.50	0.25	ug/l	
95-50-1	o-Dichlorobenzene	0.25 U	0.50	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.25 U	0.50	0.25	ug/l	

U = Not detected LOD - Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: TT102D2-091813
Lab Sample ID: MC24601-1
Matrix: AQ - Ground Water
Method: EPA 524.2 REV 4.1
Project: RCNYCR: NWIRP Bethpage, NY

Date Sampled: 09/18/13
Date Received: 09/20/13
Percent Solids: n/a

VOA List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.50 U	0.50	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.25 U	0.50	0.25	ug/l	
100-41-4	Ethylbenzene	0.25 U	0.50	0.25	ug/l	
87-68-3	Hexachlorobutadiene	0.50 U	0.50	0.50	ug/l	
98-82-8	Isopropylbenzene	0.25 U	0.50	0.25	ug/l	
99-87-6	p-Isopropyltoluene	0.25 U	0.50	0.25	ug/l	
75-09-2	Methylene chloride	0.50 U	0.50	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.25 U	0.50	0.25	ug/l	
91-20-3	Naphthalene	0.25 U	0.50	0.25	ug/l	
103-65-1	n-Propylbenzene	0.25 U	0.50	0.25	ug/l	
100-42-5	Styrene	0.25 U	0.50	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.25 U	0.50	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	0.25 U	0.50	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.25 U	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	0.50	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.25 U	0.50	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	0.25 U	0.50	0.25	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.25 U	0.50	0.25	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.25 U	0.50	0.25	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.25 U	0.50	0.25	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	ug/l	
108-88-3	Toluene	0.25 U	0.50	0.25	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	0.50	0.50	ug/l	
75-01-4	Vinyl chloride	0.25 U	0.50	0.25	ug/l	
	m,p-Xylene	0.50 U	0.50	0.50	ug/l	
95-47-6	o-Xylene	0.25 U	0.50	0.25	ug/l	
1330-20-7	Xylenes (total)	0.25 U	0.50	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	95%		70-130%
460-00-4	4-Bromofluorobenzene	87%		70-130%

U = Not detected LOD - Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

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

Accutest Laboratories

Report of Analysis

Client Sample ID: TRIP BLANK 091813
Lab Sample ID: MC24601-2
Matrix: AQ - Ground Water
Method: EPA 524.2 REV 4.1
Project: RCNYCR: NWIRP Bethpage, NY

Date Sampled: 09/18/13
Date Received: 09/20/13
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	T31367.D	1	09/24/13	JM	n/a	n/a	MST1092
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
71-43-2	Benzene	0.25 U	0.50	0.25	ug/l	
108-86-1	Bromobenzene	0.25 U	0.50	0.25	ug/l	
74-97-5	Bromochloromethane	0.50 U	0.50	0.50	ug/l	
75-27-4	Bromodichloromethane	0.25 U	0.50	0.25	ug/l	
75-25-2	Bromoform	0.50 U	0.50	0.50	ug/l	
74-83-9	Bromomethane	0.50 U	0.50	0.50	ug/l	
104-51-8	n-Butylbenzene	0.25 U	0.50	0.25	ug/l	
135-98-8	sec-Butylbenzene	0.25 U	0.50	0.25	ug/l	
98-06-6	tert-Butylbenzene	0.25 U	0.50	0.25	ug/l	
108-90-7	Chlorobenzene	0.25 U	0.50	0.25	ug/l	
75-00-3	Chloroethane	0.50 U	0.50	0.50	ug/l	
67-66-3	Chloroform	3.2	0.50	0.25	ug/l	
74-87-3	Chloromethane	0.50 U	0.50	0.50	ug/l	
95-49-8	o-Chlorotoluene	0.25 U	0.50	0.25	ug/l	
106-43-4	p-Chlorotoluene	0.25 U	0.50	0.25	ug/l	
56-23-5	Carbon tetrachloride	0.25 U	0.50	0.25	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	ug/l	
75-35-4	1,1-Dichloroethylene	0.50 U	0.50	0.50	ug/l	
563-58-6	1,1-Dichloropropene	0.25 U	0.50	0.25	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	0.50 U	0.50	0.50	ug/l	
106-93-4	1,2-Dibromoethane	0.50 U	0.50	0.50	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	ug/l	
142-28-9	1,3-Dichloropropane	0.25 U	0.50	0.25	ug/l	
594-20-7	2,2-Dichloropropane	0.25 U	0.50	0.25	ug/l	
124-48-1	Dibromochloromethane	0.50 U	0.50	0.50	ug/l	
74-95-3	Dibromomethane	0.50 U	0.50	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	0.50 U	0.50	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	0.25 U	0.50	0.25	ug/l	
541-73-1	m-Dichlorobenzene	0.25 U	0.50	0.25	ug/l	
95-50-1	o-Dichlorobenzene	0.25 U	0.50	0.25	ug/l	
106-46-7	p-Dichlorobenzene	0.25 U	0.50	0.25	ug/l	

U = Not detected LOD - Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

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

Report of Analysis

Client Sample ID: TRIP BLANK 091813
Lab Sample ID: MC24601-2
Matrix: AQ - Ground Water
Method: EPA 524.2 REV 4.1
Project: RCNYCR: NWIRP Bethpage, NY

Date Sampled: 09/18/13
Date Received: 09/20/13
Percent Solids: n/a

VOA List

CAS No.	Compound	Result	LOQ	LOD	Units	Q
156-60-5	trans-1,2-Dichloroethylene	0.50 U	0.50	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	ug/l	
10061-02-6	trans-1,3-Dichloropropene	0.25 U	0.50	0.25	ug/l	
100-41-4	Ethylbenzene	0.25 U	0.50	0.25	ug/l	
87-68-3	Hexachlorobutadiene	0.50 U	0.50	0.50	ug/l	
98-82-8	Isopropylbenzene	0.25 U	0.50	0.25	ug/l	
99-87-6	p-Isopropyltoluene	0.25 U	0.50	0.25	ug/l	
75-09-2	Methylene chloride	0.66	0.50	0.50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.25 U	0.50	0.25	ug/l	
91-20-3	Naphthalene	0.25 U	0.50	0.25	ug/l	
103-65-1	n-Propylbenzene	0.25 U	0.50	0.25	ug/l	
100-42-5	Styrene	0.25 U	0.50	0.25	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	0.25 U	0.50	0.25	ug/l	
71-55-6	1,1,1-Trichloroethane	0.25 U	0.50	0.25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	0.25 U	0.50	0.25	ug/l	
79-00-5	1,1,2-Trichloroethane	0.50 U	0.50	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.25 U	0.50	0.25	ug/l	
96-18-4	1,2,3-Trichloropropane	0.25 U	0.50	0.25	ug/l	
120-82-1	1,2,4-Trichlorobenzene	0.25 U	0.50	0.25	ug/l	
95-63-6	1,2,4-Trimethylbenzene	0.25 U	0.50	0.25	ug/l	
108-67-8	1,3,5-Trimethylbenzene	0.25 U	0.50	0.25	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	ug/l	
108-88-3	Toluene	0.25 U	0.50	0.25	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	ug/l	
75-69-4	Trichlorofluoromethane	0.50 U	0.50	0.50	ug/l	
75-01-4	Vinyl chloride	0.25 U	0.50	0.25	ug/l	
	m,p-Xylene	0.50 U	0.50	0.50	ug/l	
95-47-6	o-Xylene	0.25 U	0.50	0.25	ug/l	
1330-20-7	Xylenes (total)	0.25 U	0.50	0.25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	99%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

U = Not detected LOD - Limit of Detection
LOQ = Limit of Quantitation
E = Indicates value exceeds calibration range

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

New England ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

Katahdin Analytical Services
600 Technology Way
Scarborough, ME 04074
Tel: (207) 874-2400
Fax: (207) 775-4029

MC24601

CHAIN of CUSTODY

PLEASE BEAR DOWN AND PRINT LEGIBLY IN PEN

Page ____ of ____

Client: Resolution Consultants
Contact: Eleanor Vivaudou
Phone #: (845) 425-4980
Fax #: (845) 425-4984
Address: 100 Red Schoolhouse Rd B-1
City: Chestnut Ridge
State: NY
Zip Code: 10977
Purchase Order #: 125-15180-LA12-ATS3
Proj. Name / No.: ~~60266356~~ 60266526 Bethpage OU2
Katahdin Quote #: —
Bill (if different than above): Same
Address:
Sampler (Print / Sign): Paul Kareth / Paul Kareth
Copies To:

LAB USE ONLY
WORK ORDER #:
KATAHDIN PROJECT NUMBER
REMARKS: 5 day turnaround
SHIPPING INFO: ☒ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C ____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	VOCs-524 (Filt. ☐Y ☐N)
-1	TT102D2-091813	9/18/13 / 12:30	GW	3	✓
-2	TRIP BLANK091813	9/18/13 / —	GW	3	✓

OK 2A1

COMMENTS: 5 day turnaround **RUSH!** 0.8°C

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Paul Kareth	9/19/13 1000	Fedex			
FedEx	9-20-13 930	[signature]			

THE TERMS AND CONDITIONS ON THE REVERSE SIDE HEREOF SHALL GOVERN SERVICES, EXCEPT WHEN A SIGNED CONTRACTUAL AGREEMENT EXISTS.

KAS-COC1 ORIGINAL

MC24601: Chain of Custody
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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: MC24601 **Client:** RESOLUTION CONSULTANTS **Immediate Client Services Action Required:** No

Date / Time Received: 9/20/2013 **Delivery Method:** **Client Service Action Required at Login:** No

Project: BETH PAGE 042 **No. Coolers:** 1 **Airbill #'s:**

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☑		☐	☐
2. Trip Blank listed on COC:	☑		☐	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:508.481.6200

495 Technology Center West, Bldg One
F: 508.481.7753

Marlborough, MA
www/accutest.com

MC24601: Chain of Custody
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Internal Sample Tracking Chronicle

Katahdin Analytical Services

Job No: MC24601

RCNYCR: NWIRP Bethpage, NY
Project No: 60266526 PO#125-15180-LA12-AT53

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC24601-1 Collected: 18-SEP-13 12:30 By: PK			Received: 20-SEP-13 By: AF			
TT102D2-091813						
MC24601-1	EPA 524.2 REV 4.1	24-SEP-13 19:18	JM			V524STD
MC24601-2 Collected: 18-SEP-13 00:00 By: PK			Received: 20-SEP-13 By: AF			
TRIP BLANK 091813						
MC24601-2	EPA 524.2 REV 4.1	24-SEP-13 19:45	JM			V524STD

Accutest Internal Chain of Custody

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY
Received: 09/20/13

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC24601-1.1	VOC Ref #1	Jaime Maslowski	09/24/13 11:24	Retrieve from Storage
MC24601-1.1	Jaime Maslowski	GCMST	09/24/13 11:24	Load on Instrument
MC24601-1.1	GCMST	Jaime Maslowski	09/26/13 10:27	Unload from Instrument
MC24601-1.1	Jaime Maslowski	VOC Ref #1	09/26/13 10:27	Return to Storage
MC24601-2.2	VOC Ref #1	Jaime Maslowski	09/24/13 11:24	Retrieve from Storage
MC24601-2.2	Jaime Maslowski	GCMST	09/24/13 11:24	Load on Instrument
MC24601-2.2	GCMST	Jaime Maslowski	09/26/13 10:27	Unload from Instrument
MC24601-2.2	Jaime Maslowski	VOC Ref #1	09/26/13 10:27	Return to Storage

New England ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MST1092-MB	T31349.D	1	09/24/13	JM	n/a	n/a	MST1092

The QC reported here applies to the following samples: **Method:** EPA 524.2 REV 4.1

MC24601-1, MC24601-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.11	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.094	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.14	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.13	ug/l	
74-83-9	Bromomethane	ND	0.50	0.31	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.097	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.11	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.085	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.11	ug/l	
75-00-3	Chloroethane	ND	0.50	0.50	ug/l	
67-66-3	Chloroform	ND	0.50	0.12	ug/l	
74-87-3	Chloromethane	ND	0.50	0.31	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.11	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.082	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.17	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.12	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.39	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.11	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.50	0.50	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.13	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.099	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.10	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.065	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.14	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.14	ug/l	
74-95-3	Dibromomethane	ND	0.50	0.13	ug/l	
75-71-8	Dichlorodifluoromethane	ND	0.50	0.21	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.11	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	0.078	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	0.093	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	0.076	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.29	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.20	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.13	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.090	ug/l	

Method Blank Summary

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MST1092-MB	T31349.D	1	09/24/13	JM	n/a	n/a	MST1092

The QC reported here applies to the following samples: **Method:** EPA 524.2 REV 4.1

MC24601-1, MC24601-2

CAS No.	Compound	Result	RL	MDL	Units	Q
87-68-3	Hexachlorobutadiene	ND	0.50	0.19	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.10	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.092	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.15	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	0.12	ug/l	
91-20-3	Naphthalene	ND	0.50	0.13	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.098	ug/l	
100-42-5	Styrene	ND	0.50	0.093	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.11	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.085	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.13	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.15	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.12	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.17	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.10	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.073	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.12	ug/l	
108-88-3	Toluene	ND	0.50	0.096	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.15	ug/l	
75-69-4	Trichlorofluoromethane	ND	0.50	0.17	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.16	ug/l	
	m,p-Xylene	ND	0.50	0.17	ug/l	
95-47-6	o-Xylene	ND	0.50	0.10	ug/l	
1330-20-7	Xylenes (total)	ND	0.50	0.10	ug/l	

CAS No.	Surrogate Recoveries		Limits
2199-69-1	1,2-Dichlorobenzene-d4	92%	70-130%
460-00-4	4-Bromofluorobenzene	88%	70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MST1092-BS	T31346.D	1	09/24/13	JM	n/a	n/a	MST1092
MST1092-BSD	T31347.D	1	09/24/13	JM	n/a	n/a	MST1092

The QC reported here applies to the following samples: **Method:** EPA 524.2 REV 4.1

MC24601-1, MC24601-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	5	5.0	100	5.2	104	4	70-130/30
108-86-1	Bromobenzene	5	5.0	100	5.4	108	8	70-130/30
74-97-5	Bromochloromethane	5	4.8	96	5.0	100	4	70-130/30
75-27-4	Bromodichloromethane	5	4.9	98	5.2	104	6	70-130/30
75-25-2	Bromoform	5	5.4	108	5.6	112	4	70-130/30
74-83-9	Bromomethane	5	5.0	100	5.2	104	4	70-130/30
104-51-8	n-Butylbenzene	5	4.9	98	4.9	98	0	70-130/30
135-98-8	sec-Butylbenzene	5	4.7	94	4.9	98	4	70-130/30
98-06-6	tert-Butylbenzene	5	4.6	92	4.7	94	2	70-130/30
108-90-7	Chlorobenzene	5	4.6	92	4.9	98	6	70-130/30
75-00-3	Chloroethane	5	5.6	112	5.4	108	4	70-130/30
67-66-3	Chloroform	5	4.8	96	4.9	98	2	70-130/30
74-87-3	Chloromethane	5	5.8	116	5.7	114	2	70-130/30
95-49-8	o-Chlorotoluene	5	4.7	94	4.7	94	0	70-130/30
106-43-4	p-Chlorotoluene	5	4.7	94	4.8	96	2	70-130/30
56-23-5	Carbon tetrachloride	5	5.1	102	5.3	106	4	70-130/30
75-34-3	1,1-Dichloroethane	5	4.9	98	5.1	102	4	70-130/30
75-35-4	1,1-Dichloroethylene	5	4.9	98	5.3	106	8	70-130/30
563-58-6	1,1-Dichloropropene	5	4.7	94	5.2	104	10	70-130/30
96-12-8	1,2-Dibromo-3-chloropropane	5	4.8	96	5.8	116	19	70-130/30
106-93-4	1,2-Dibromoethane	5	4.6	92	4.9	98	6	70-130/30
107-06-2	1,2-Dichloroethane	5	4.4	88	4.6	92	4	70-130/30
78-87-5	1,2-Dichloropropane	5	4.7	94	5.0	100	6	70-130/30
142-28-9	1,3-Dichloropropane	5	4.6	92	4.6	92	0	70-130/30
594-20-7	2,2-Dichloropropane	5	4.7	94	4.6	92	2	70-130/30
124-48-1	Dibromochloromethane	5	5.1	102	5.2	104	2	70-130/30
74-95-3	Dibromomethane	5	4.4	88	4.8	96	9	70-130/30
75-71-8	Dichlorodifluoromethane	5	9.3	186* [a]	9.3	186* [a]	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	5	4.5	90	4.7	94	4	70-130/30
541-73-1	m-Dichlorobenzene	5	4.8	96	5.0	100	4	70-130/30
95-50-1	o-Dichlorobenzene	5	4.7	94	4.9	98	4	70-130/30
106-46-7	p-Dichlorobenzene	5	5.1	102	5.2	104	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	5	5.0	100	5.1	102	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	5	4.6	92	4.8	96	4	70-130/30
10061-02-6	trans-1,3-Dichloropropene	5	4.8	96	4.9	98	2	70-130/30
100-41-4	Ethylbenzene	5	4.8	96	4.9	98	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MST1092-BS	T31346.D	1	09/24/13	JM	n/a	n/a	MST1092
MST1092-BSD	T31347.D	1	09/24/13	JM	n/a	n/a	MST1092

The QC reported here applies to the following samples: **Method:** EPA 524.2 REV 4.1

MC24601-1, MC24601-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
87-68-3	Hexachlorobutadiene	5	6.6	132* [a]	6.9	138* [a]	4	70-130/30
98-82-8	Isopropylbenzene	5	4.6	92	4.8	96	4	70-130/30
99-87-6	p-Isopropyltoluene	5	5.1	102	5.2	104	2	70-130/30
75-09-2	Methylene chloride	5	4.8	96	4.9	98	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	5	4.1	82	4.4	88	7	70-130/30
91-20-3	Naphthalene	5	4.2	84	4.6	92	9	70-130/30
103-65-1	n-Propylbenzene	5	4.6	92	4.7	94	2	70-130/30
100-42-5	Styrene	5	4.5	90	4.8	96	6	70-130/30
630-20-6	1,1,1,2-Tetrachloroethane	5	5.2	104	5.3	106	2	70-130/30
71-55-6	1,1,1-Trichloroethane	5	4.8	96	5.1	102	6	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	5	4.6	92	4.7	94	2	70-130/30
79-00-5	1,1,2-Trichloroethane	5	4.5	90	4.8	96	6	70-130/30
87-61-6	1,2,3-Trichlorobenzene	5	5.0	100	5.6	112	11	70-130/30
96-18-4	1,2,3-Trichloropropane	5	4.4	88	4.6	92	4	70-130/30
120-82-1	1,2,4-Trichlorobenzene	5	5.2	104	5.5	110	6	70-130/30
95-63-6	1,2,4-Trimethylbenzene	5	4.6	92	4.8	96	4	70-130/30
108-67-8	1,3,5-Trimethylbenzene	5	4.7	94	4.8	96	2	70-130/30
127-18-4	Tetrachloroethylene	5	5.3	106	5.6	112	6	70-130/30
108-88-3	Toluene	5	4.9	98	5.1	102	4	70-130/30
79-01-6	Trichloroethylene	5	5.0	100	5.0	100	0	70-130/30
75-69-4	Trichlorofluoromethane	5	5.6	112	5.7	114	2	70-130/30
75-01-4	Vinyl chloride	5	5.6	112	5.8	116	4	70-130/30
	m,p-Xylene	10	9.4	94	9.8	98	4	70-130/30
95-47-6	o-Xylene	5	4.6	92	4.8	96	4	70-130/30
1330-20-7	Xylenes (total)	15	14.0	93	14.6	97	4	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
2199-69-1	1,2-Dichlorobenzene-d4	98%	102%	70-130%
460-00-4	4-Bromofluorobenzene	97%	99%	70-130%

(a) Outside control limits. Associated samples are non-detect for this compound.

* = Outside of Control Limits.

Duplicate Summary

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC24310-1DUP	T31354.D	1	09/24/13	JM	n/a	n/a	MST1092
MC24310-1	T31353.D	1	09/24/13	JM	n/a	n/a	MST1092

The QC reported here applies to the following samples: **Method:** EPA 524.2 REV 4.1

MC24601-1, MC24601-2

CAS No.	Compound	MC24310-1 ug/l	Q	DUP ug/l	Q	RPD	Limits
71-43-2	Benzene	ND		ND		nc	30
108-86-1	Bromobenzene	ND		ND		nc	30
74-97-5	Bromochloromethane	ND		ND		nc	30
75-27-4	Bromodichloromethane	ND		ND		nc	30
75-25-2	Bromoform	ND		ND		nc	30
74-83-9	Bromomethane	ND		ND		nc	30
104-51-8	n-Butylbenzene	ND		ND		nc	30
135-98-8	sec-Butylbenzene	ND		ND		nc	30
98-06-6	tert-Butylbenzene	ND		ND		nc	30
108-90-7	Chlorobenzene	ND		ND		nc	30
75-00-3	Chloroethane	ND		ND		nc	30
67-66-3	Chloroform	ND		ND		nc	30
74-87-3	Chloromethane	ND		ND		nc	30
95-49-8	o-Chlorotoluene	ND		ND		nc	30
106-43-4	p-Chlorotoluene	ND		ND		nc	30
56-23-5	Carbon tetrachloride	ND		ND		nc	30
75-34-3	1,1-Dichloroethane	ND		ND		nc	30
75-35-4	1,1-Dichloroethylene	ND		ND		nc	30
563-58-6	1,1-Dichloropropene	ND		ND		nc	30
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	30
106-93-4	1,2-Dibromoethane	ND		ND		nc	30
107-06-2	1,2-Dichloroethane	ND		ND		nc	30
78-87-5	1,2-Dichloropropane	ND		ND		nc	30
142-28-9	1,3-Dichloropropane	ND		ND		nc	30
594-20-7	2,2-Dichloropropane	ND		ND		nc	30
124-48-1	Dibromochloromethane	ND		ND		nc	30
74-95-3	Dibromomethane	ND		ND		nc	30
75-71-8	Dichlorodifluoromethane	ND		ND		nc	30
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	30
541-73-1	m-Dichlorobenzene	ND		ND		nc	30
95-50-1	o-Dichlorobenzene	ND		ND		nc	30
106-46-7	p-Dichlorobenzene	ND		ND		nc	30
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	30
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	30
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	30
100-41-4	Ethylbenzene	ND		ND		nc	30

* = Outside of Control Limits.

Duplicate Summary

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
MC24310-1DUP	T31354.D	1	09/24/13	JM	n/a	n/a	MST1092
MC24310-1	T31353.D	1	09/24/13	JM	n/a	n/a	MST1092

The QC reported here applies to the following samples: **Method:** EPA 524.2 REV 4.1

MC24601-1, MC24601-2

CAS No.	Compound	MC24310-1 ug/l	Q	DUP ug/l	Q	RPD	Limits
87-68-3	Hexachlorobutadiene	ND		ND		nc	30
98-82-8	Isopropylbenzene	ND		ND		nc	30
99-87-6	p-Isopropyltoluene	ND		ND		nc	30
75-09-2	Methylene chloride	ND		ND		nc	30
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	30
91-20-3	Naphthalene	ND		ND		nc	30
103-65-1	n-Propylbenzene	ND		ND		nc	30
100-42-5	Styrene	ND		ND		nc	30
630-20-6	1,1,1,2-Tetrachloroethane	ND		ND		nc	30
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	30
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	30
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	30
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	30
96-18-4	1,2,3-Trichloropropane	ND		ND		nc	30
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	30
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	30
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	30
127-18-4	Tetrachloroethylene	ND		ND		nc	30
108-88-3	Toluene	ND		ND		nc	30
79-01-6	Trichloroethylene	ND		ND		nc	30
75-69-4	Trichlorofluoromethane	ND		ND		nc	30
75-01-4	Vinyl chloride	ND		ND		nc	30
	m,p-Xylene	ND		ND		nc	30
95-47-6	o-Xylene	ND		ND		nc	30
1330-20-7	Xylenes (total)	ND		ND		nc	30

CAS No.	Surrogate Recoveries	DUP	MC24310-1	Limits
2199-69-1	1,2-Dichlorobenzene-d4	95%	91%	70-130%
460-00-4	4-Bromofluorobenzene	87%	88%	70-130%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1065-BFB
Lab File ID: T30576.D
Instrument ID: GCMST
Injection Date: 07/10/13
Injection Time: 08:57

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	3514	18.1		Pass
75	30.0 - 80.0% of mass 95	9164	47.1		Pass
95	Base peak, 100% relative abundance	19456	100.0		Pass
96	5.0 - 9.0% of mass 95	1292	6.64		Pass
173	Less than 2.0% of mass 174	260	1.34	(1.64) [a]	Pass
174	50.0 - 150.0% of mass 95	15870	81.6		Pass
175	5.0 - 9.0% of mass 174	1382	7.10	(8.71) [a]	Pass
176	95.0 - 101.0% of mass 174	15319	78.7	(96.5) [a]	Pass
177	5.0 - 9.0% of mass 176	1039	5.34	(6.78) [b]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MST1065-IC1065	T30577.D	07/10/13	09:23	00:26	Initial cal 0.5
MST1065-IC1065	T30578.D	07/10/13	09:50	00:53	Initial cal 1
MST1065-IC1065	T30579.D	07/10/13	10:17	01:20	Initial cal 2
MST1065-ICC1065	T30580.D	07/10/13	10:43	01:46	Initial cal 5
MST1065-IC1065	T30581.D	07/10/13	11:11	02:14	Initial cal 10
MST1065-IC1065	T30582.D	07/10/13	11:38	02:41	Initial cal 20
MST1065-IC1065	T30583.D	07/10/13	12:07	03:10	Initial cal 40
MST1065-IC1065	T30584.D	07/10/13	12:34	03:37	Initial cal 80
MST1065-ICV1065	T30589.D	07/10/13	15:03	06:06	Initial cal verification 20
MST1065-CC1065	T30589.D	07/10/13	15:03	06:06	Continuing cal 20
MST1065-BS	T30589.D	07/10/13	15:03	06:06	Blank Spike
MST1065-MB	T30591.D	07/10/13	15:57	07:00	Method Blank
ZZZZZZ	T30592.D	07/10/13	16:23	07:26	(unrelated sample)
ZZZZZZ	T30593.D	07/10/13	16:50	07:53	(unrelated sample)
MC22402-3	T30594.D	07/10/13	17:17	08:20	(used for QC only; not part of job MC24601)
MC22402-3DUP	T30595.D	07/10/13	17:44	08:47	Duplicate
ZZZZZZ	T30596.D	07/10/13	18:11	09:14	(unrelated sample)
ZZZZZZ	T30597.D	07/10/13	18:37	09:40	(unrelated sample)
ZZZZZZ	T30598.D	07/10/13	19:04	10:07	(unrelated sample)
ZZZZZZ	T30599.D	07/10/13	19:31	10:34	(unrelated sample)
ZZZZZZ	T30600.D	07/10/13	19:58	11:01	(unrelated sample)
ZZZZZZ	T30601.D	07/10/13	20:25	11:28	(unrelated sample)
ZZZZZZ	T30602.D	07/10/13	20:52	11:55	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1092-BFB
Lab File ID: T31345.D
Instrument ID: GCMST
Injection Date: 09/24/13
Injection Time: 09:50

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	6914	19.0		Pass
75	30.0 - 80.0% of mass 95	16528	45.5		Pass
95	Base peak, 100% relative abundance	36328	100.0		Pass
96	5.0 - 9.0% of mass 95	2641	7.27		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 150.0% of mass 95	29904	82.3		Pass
175	5.0 - 9.0% of mass 174	2641	7.27	(8.83) [a]	Pass
176	95.0 - 101.0% of mass 174	29336	80.8	(98.1) [a]	Pass
177	5.0 - 9.0% of mass 176	2249	6.19	(7.67) [b]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
MST1092-CC1065	T31345.D	09/24/13	09:50	00:00	Continuing cal 5
MST1092-BS	T31346.D	09/24/13	10:18	00:28	Blank Spike
MST1092-BSD	T31347.D	09/24/13	10:45	00:55	Blank Spike Duplicate
MST1092-MB	T31349.D	09/24/13	11:39	01:49	Method Blank
ZZZZZZ	T31350.D	09/24/13	12:06	02:16	(unrelated sample)
ZZZZZZ	T31351.D	09/24/13	12:33	02:43	(unrelated sample)
ZZZZZZ	T31352.D	09/24/13	13:00	03:10	(unrelated sample)
MC24310-1	T31353.D	09/24/13	13:28	03:38	(used for QC only; not part of job MC24601)
MC24310-1DUP	T31354.D	09/24/13	13:55	04:05	Duplicate
ZZZZZZ	T31355.D	09/24/13	14:22	04:32	(unrelated sample)
ZZZZZZ	T31356.D	09/24/13	14:49	04:59	(unrelated sample)
ZZZZZZ	T31357.D	09/24/13	15:15	05:25	(unrelated sample)
ZZZZZZ	T31358.D	09/24/13	15:42	05:52	(unrelated sample)
ZZZZZZ	T31359.D	09/24/13	16:10	06:20	(unrelated sample)
ZZZZZZ	T31360.D	09/24/13	16:36	06:46	(unrelated sample)
ZZZZZZ	T31361.D	09/24/13	17:03	07:13	(unrelated sample)
ZZZZZZ	T31362.D	09/24/13	17:30	07:40	(unrelated sample)
ZZZZZZ	T31363.D	09/24/13	17:57	08:07	(unrelated sample)
ZZZZZZ	T31364.D	09/24/13	18:24	08:34	(unrelated sample)
ZZZZZZ	T31365.D	09/24/13	18:51	09:01	(unrelated sample)
MC24601-1	T31366.D	09/24/13	19:18	09:28	TT102D2-091813
MC24601-2	T31367.D	09/24/13	19:45	09:55	TRIP BLANK 091813
ZZZZZZ	T31368.D	09/24/13	20:12	10:22	(unrelated sample)
ZZZZZZ	T31369.D	09/24/13	20:39	10:49	(unrelated sample)

Volatile Internal Standard/Surrogate Area Summary

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Check Std:	MST1092-CC1065	**Injection Date:**	09/24/13
Lab File ID:	T31345.D	**Injection Time:**	09:50
Instrument ID:	GCMST	**Method:**	EPA 524.2 REV 4.1

	IS 1 AREA	RT	Surr 2 AREA	RT	Surr 3 AREA	RT
Initial Cal [a]	111431	9.54	35923	15.84	37392	14.11
Previous Check [b]	167427	9.54	56828	15.84	57416	14.11
Check Std [c]	181863	9.54	57278	15.84	61130	14.11
Upper Limit [d]	363726	10.04	114556	16.34	122260	14.61
Lower Limit [e]	90932	9.04	28639	15.34	30565	13.61

Lab Sample ID	IS 1 AREA	RT	Surr 2 AREA	RT	Surr 3 AREA	RT
MST1092-BS	186177	9.54	60404	15.84	62855	14.11
MST1092-BSD	176070	9.54	59354	15.84	60445	14.11
MST1092-MB	166898	9.54	51088	15.84	50845	14.11
ZZZZZZ	161943	9.54	46849	15.84	46875	14.11
ZZZZZZ	160662	9.54	48433	15.84	49806	14.11
ZZZZZZ	159333	9.54	49763	15.84	48934	14.11
MC24310-1	162162	9.54	49208	15.84	49826	14.11
MC24310-1DUP	158548	9.55	50122	15.84	47757	14.11
ZZZZZZ	161132	9.54	49036	15.84	48706	14.11
ZZZZZZ	167456	9.54	52887	15.84	52695	14.11
ZZZZZZ	167614	9.54	53509	15.84	52220	14.11
ZZZZZZ	161124	9.54	52359	15.84	51245	14.11
ZZZZZZ	156763	9.54	50222	15.84	48288	14.11
ZZZZZZ	165436	9.54	53853	15.84	52248	14.11
ZZZZZZ	159171	9.54	51722	15.84	48659	14.11
ZZZZZZ	162333	9.54	53129	15.84	50957	14.11
ZZZZZZ	162082	9.54	53620	15.84	51105	14.11
ZZZZZZ	165105	9.54	54793	15.84	51293	14.11
ZZZZZZ	168490	9.54	55145	15.84	52811	14.11
MC24601-1	158406	9.54	49707	15.84	47784	14.11
MC24601-2	159480	9.54	52340	15.84	50503	14.11
ZZZZZZ	164261	9.54	54189	15.84	51364	14.11
ZZZZZZ	162296	9.54	50098	15.84	50118	14.11

IS 1 = Fluorobenzene
Surr 2 = 1,2-Dichlorobenzene-d4
Surr 3 = 4-Bromofluorobenzene

(a) Initial Cal is: MST1065-ICC1065 T30580.D 07/10/13 10:43
(b) Previous Check is: MST1091-CC1065 T31338.D 09/23/13 14:37
(c) Check Std Limit = -30% of previous check area; -50% of initial cal area.
(d) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.

Volatile Internal Standard/Surrogate Area Summary

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Check Std:	MST1092-CC1065	**Injection Date:**	09/24/13
Lab File ID:	T31345.D	**Injection Time:**	09:50
Instrument ID:	GCMST	**Method:**	EPA 524.2 REV 4.1

Lab Sample ID	IS 1 AREA	IS 1 RT	Surr 2 AREA	Surr 2 RT	Surr 3 AREA	Surr 3 RT

(e) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Method: EPA 524.2 REV 4.1 **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
MC24601-1	T31366.D	95.0	87.0
MC24601-2	T31367.D	99.0	91.0
MC24310-1DUP	T31354.D	95.0	87.0
MST1092-BS	T31346.D	98.0	97.0
MST1092-BSD	T31347.D	102.0	99.0
MST1092-MB	T31349.D	92.0	88.0

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichlorobenzene-d4	70-130%
S2 = 4-Bromofluorobenzene	70-130%

Initial Calibration Summary

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1065-ICC1065
Lab FileID: T30580.D

Response Factor Report MST

Method : C:\msdchem\2\methods\T130710D.M (RTE Integrator)
Title : Method 524
Last Update : Wed Jul 10 14:20:00 2013
Response via : Initial Calibration

Calibration Files
10 =T30581.D 2 =T30579.D 1 =T30578.D 0.5 =T30577.D
20 =T30582.D 80 =T30584.D 40 =T30583.D 5 =T30580.D

Compound	10	2	1	0.5	20	80	40	5	Avg	%RSD
1) I fluorobenzene	ISTD									
2) dichlorodifl	0.183	0.225	0.205	0.232	0.190	0.153	0.182	0.213	0.198	13.07
3) chloromethan	0.295	0.366	0.385	0.403	0.291	0.247	0.281	0.329	0.325	17.02
4) vinyl chlori	0.323	0.374	0.348	0.591	0.339	0.297	0.321	0.349	0.368	25.27
	---- Linear regression ---- Coefficient = 0.9982									
	Response Ratio = 0.06106 + 0.29860 *A									
5) bromomethane	0.170	0.189	0.211	0.292	0.169	0.144	0.160	0.181	0.189	24.29
	---- Linear regression ---- Coefficient = 0.9957									
	Response Ratio = 0.01571 + 0.15109 *A									
6) Ethanol	0.001	0.001	0.001	0.005	0.001	0.001	0.001	0.001	0.002	82.89
	---- Linear regression ---- Coefficient = 0.9932									
	Response Ratio = 0.01985 + 0.00128 *A									
7) chloroethane	0.144	0.166	0.144	0.173	0.137	0.121	0.147	0.165	0.150	11.58
8) acetone	0.020				0.019	0.019	0.022	0.012	0.018	19.49
9) ethyl ether	0.142	0.139	0.157	0.147	0.146	0.133	0.146	0.149	0.145	4.98
10) trichloroflu	0.366	0.395	0.364	0.409	0.378	0.322	0.366	0.392	0.374	7.12
11) 1,1-dichloro	0.194	0.234	0.261	0.397	0.202	0.181	0.198	0.217	0.235	29.73
	---- Linear regression ---- Coefficient = 0.9980									
	Response Ratio = 0.03893 + 0.18202 *A									
12) methylene ch	0.237	0.271	0.309	0.316	0.247	0.220	0.243	0.261	0.263	12.97
13) tertiary but	0.012	0.010	0.011	0.014	0.010	0.010	0.011	0.011	0.011	13.16
14) carbon disul	0.598	0.672	0.660	0.708	0.646	0.593	0.645	0.668	0.649	5.90
15) trans-1,2-di	0.215	0.265	0.328	0.407	0.235	0.210	0.228	0.255	0.268	25.28
	---- Linear regression ---- Coefficient = 0.9983									
	Response Ratio = 0.04143 + 0.21104 *A									
16) Methyl tert	0.456	0.479	0.511	0.581	0.468	0.426	0.469	0.482	0.484	9.50
17) 1,1-dichloro	0.402	0.435	0.460	0.525	0.427	0.379	0.414	0.451	0.437	10.10
18) 2-butanone	0.634	0.668	0.674	0.706	0.676	0.625	0.677	0.681	0.668	3.89
19) di-isopropyl	0.689	0.703	0.753	0.820	0.729	0.671	0.731	0.728	0.728	6.24
20) tert-butyl e	0.615	0.616	0.647	0.780	0.637	0.598	0.646	0.635	0.647	8.76
21) 2,2-dichloro	0.298	0.349	0.361	0.415	0.316	0.297	0.319	0.338	0.337	11.65
22) cis-1,2-dich	0.236	0.282	0.317	0.360	0.255	0.230	0.248	0.282	0.276	16.02
23) tetrahydrofu	0.032	0.021	0.026	0.047	0.031	0.032	0.035	0.031	0.032	23.63
	---- Linear regression ---- Coefficient = 0.9972									
	Response Ratio = 0.00003 + 0.03243 *A									
24) bromochlorom	0.110	0.113	0.109	0.129	0.114	0.105	0.114	0.111	0.113	6.33
25) chloroform	0.399	0.437	0.451	0.518	0.419	0.385	0.415	0.441	0.433	9.38
26) 1,1,1-trichl	0.335	0.382	0.364	0.407	0.357	0.331	0.355	0.364	0.362	6.77
27) carbon tetra	0.268	0.305	0.292	0.306	0.293	0.276	0.290	0.298	0.291	4.62
28) 1,1-dichloro	0.280	0.312	0.310	0.387	0.305	0.281	0.302	0.309	0.311	10.68

Initial Calibration Summary

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1065-ICC1065
Lab FileID: T30580.D

29)	benzene	0.839	0.912	0.940	1.029	0.896	0.821	0.890	0.944	0.909	7.14
30)	1,2-dichloro	0.276	0.279	0.310	0.342	0.282	0.255	0.279	0.293	0.290	9.12
31)	tert-amyl me	0.490	0.557	0.605	0.682	0.490	0.465	0.500	0.530	0.540	13.47
32)	trichloroeth	0.233	0.259	0.281	0.279	0.246	0.229	0.246	0.269	0.255	7.82
33)	1,2-dichloro	0.227	0.253	0.255	0.287	0.245	0.226	0.240	0.254	0.248	7.76
34)	dibromometha	0.120	0.127	0.129	0.136	0.127	0.115	0.128	0.129	0.126	4.84
35)	bromodichlor	0.274	0.263	0.287	0.318	0.294	0.279	0.291	0.290	0.287	5.60
36)	1,4-dioxane	0.000				0.001	0.001	0.001	0.000	0.001	43.23

---- Linear regression ---- Coefficient = 0.9958
Response Ratio = -0.00411 + 0.00108 *A

37)	cis-1,3-dich	0.331	0.347	0.344	0.398	0.354	0.339	0.361	0.343	0.352	5.90
38)	4-methyl-2-p	0.119	0.116	0.110	0.064	0.126	0.123	0.132	0.116	0.113	18.57
39)	toluene	0.497	0.546	0.552	0.603	0.542	0.507	0.532	0.543	0.540	5.93
40)	trans-1,3-di	0.255	0.244	0.284	0.288	0.271	0.261	0.272	0.269	0.268	5.48
41)	4-bromofluor	0.366	0.337	0.314	0.333	0.377	0.364	0.356	0.336	0.348	6.11
42)	1,1,2-Trichl	0.155	0.157	0.170	0.172	0.158	0.144	0.157	0.165	0.160	5.66
43)	tetrachloroe	0.226	0.266	0.260	0.264	0.242	0.229	0.242	0.257	0.248	6.30
44)	1,3-dichloro	0.276	0.279	0.268	0.300	0.283	0.262	0.279	0.297	0.280	4.57
45)	2-hexanone	0.107	0.092	0.063	0.024	0.116	0.118	0.127	0.106	0.094	36.76

---- Linear regression ---- Coefficient = 0.9983
Response Ratio = -0.00880 + 0.12010 *A

46)	dibromochlor	0.172	0.165	0.188	0.166	0.192	0.189	0.198	0.186	0.182	6.88
47)	1,2-dibromoe	0.154	0.145	0.175	0.134	0.161	0.145	0.157	0.158	0.154	7.92
48)	chlorobenzen	0.625	0.671	0.641	0.774	0.658	0.611	0.651	0.673	0.663	7.49
49)	1,1,1,2-tetr	0.195	0.195	0.209	0.214	0.207	0.202	0.212	0.207	0.205	3.47
50)	ethylbenzene	0.977	1.083	1.107	1.128	1.056	1.006	1.070	1.065	1.062	4.68
51)	m,p-xylene	0.395	0.416	0.402	0.439	0.427	0.412	0.431	0.427	0.419	3.62
52)	o-xylene	0.404	0.393	0.432	0.494	0.424	0.423	0.433	0.425	0.428	6.98
53)	styrene	0.556	0.567	0.586	0.647	0.632	0.630	0.649	0.617	0.610	5.89
54)	bromoform	0.099	0.095	0.092	0.093	0.109	0.114	0.118	0.101	0.103	9.80
55)	isopropylben	0.987	1.057	1.103	1.195	1.099	1.082	1.115	1.060	1.087	5.43
56)	bromobenzene	0.241	0.264	0.258	0.312	0.265	0.255	0.266	0.265	0.266	7.69
57)	1,1,2,2-tetr	0.176	0.173	0.175	0.181	0.176	0.176	0.185	0.176	0.177	2.19
58)	1,2,3-trichl	0.180	0.171	0.179	0.196	0.186	0.187	0.194	0.176	0.184	4.73
59)	n-propylbenz	1.151	1.258	1.235	1.362	1.303	1.305	1.331	1.275	1.277	5.09
60)	2-chlorotolu	0.247	0.270	0.271	0.297	0.274	0.272	0.285	0.265	0.273	5.26
61)	4-chlorotolu	0.741	0.752	0.814	0.876	0.811	0.801	0.815	0.799	0.801	5.19
62)	1,3,5-trimet	0.818	0.803	0.857	0.981	0.919	0.948	0.962	0.885	0.897	7.45
63)	tert-butylbe	0.670	0.745	0.674	0.781	0.758	0.748	0.776	0.724	0.734	5.77
64)	1,2,4-trimet	0.806	0.791	0.821	0.922	0.920	0.941	0.943	0.855	0.875	7.28
65)	sec-butylben	1.008	1.086	1.084	1.149	1.174	1.220	1.225	1.111	1.132	6.57
66)	1,3-dichloro	0.485	0.499	0.520	0.566	0.534	0.545	0.548	0.513	0.526	5.13
67)	4-isopropylt	0.741	0.781	0.740	0.803	0.877	0.954	0.929	0.786	0.826	10.06
68)	1,4-dichloro	0.458	0.478	0.478	0.501	0.514	0.535	0.534	0.493	0.499	5.52
69)	1,2-dichloro	0.438	0.440	0.496	0.504	0.479	0.479	0.486	0.472	0.474	5.03
70)	1,2-dichloro	0.333	0.315	0.311	0.314	0.350	0.365	0.345	0.322	0.332	5.93
71)	n-butylbenze	0.718	0.763	0.706	0.828	0.864	0.964	0.919	0.776	0.817	11.45
72)	1,2-dibromo-	0.025	0.023	0.027	0.027	0.024	0.024	0.025	0.028	0.025	7.07
73)	1,3,5-Trichl	0.305	0.315	0.355	0.341	0.351	0.360	0.366	0.342	0.342	6.31
74)	1,2,4-trichl	0.236	0.228	0.253	0.291	0.269	0.271	0.274	0.253	0.259	8.00
75)	hexachlorobu	0.154	0.177	0.188	0.212	0.174	0.181	0.181	0.159	0.178	9.97
76)	naphthalene	0.306	0.310	0.283	0.378	0.332	0.356	0.358	0.312	0.329	9.77
77)	1,2,3-trichl	0.171	0.187	0.198	0.215	0.194	0.203	0.206	0.182	0.194	7.24

(#) = Out of Range ### Number of calibration levels exceeded format ###

T130710D.M Wed Jul 10 15:28:24 2013

Initial Calibration Verification

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1065-ICV1065
Lab FileID: T30589.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\130710\T30589.D Vial: 14
Acq On : 10 Jul 2013 3:03 pm Operator: jaimem
Sample : cc1065-20 Inst : MST
Misc : MS29369,MST1065,,,,5,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\T130710D.M (RTE Integrator)
Title : Method 524
Last Update : Wed Jul 10 14:20:00 2013
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	fluorobenzene	1.000	1.000	0.0	103	0.00	9.54
2	T	dichlorodifluoromethane	0.198	0.181	8.6	98	0.00	3.89
3	P	chloromethane	0.325	0.282	13.2	99	0.00	4.14
			Amount	Calc.	%Drift			
4	T	vinyl chloride	20.000	20.382	-1.9	97	0.00	4.38
5	T	bromomethane	20.000	21.254	-6.3	100	0.00	4.87
6		Ethanol	2000.000	1799.983	10.0	97	0.00	5.03
			AvgRF	CCRF	%Dev			
7	T	chloroethane	0.150	0.142	5.3	106	0.00	5.03
8		acetone	0.018	0.021	-16.7	111	0.02	5.82
9		ethyl ether	0.145	0.153	-5.5	107	0.01	5.93
10	T	trichlorofluoromethane	0.374	0.376	-0.5	102	0.00	5.68
			Amount	Calc.	%Drift			
11	T	1,1-dichloroethene	20.000	21.132	-5.7	103	0.00	6.26
			AvgRF	CCRF	%Dev			
12	T	methylene chloride	0.263	0.249	5.3	104	0.00	6.42
13	T	tertiary butyl alcohol	0.011	0.010	9.1	103	0.00	6.26
14		carbon disulfide	0.649	0.684	-5.4	108	0.00	6.70
			Amount	Calc.	%Drift			
15	T	trans-1,2-dichloroethene	20.000	19.985	0.1	97	0.01	7.13
			AvgRF	CCRF	%Dev			
16	T	Methyl tert butyl ether	0.484	0.476	1.7	104	0.00	7.22
17	P	1,1-dichloroethane	0.437	0.415	5.0	100	0.00	7.38
18		2-butanone	0.668	0.672	-0.6	102	0.00	7.79
19		di-isopropyl ether	0.728	0.736	-1.1	103	0.00	7.80
20		tert-butyl ethyl ether	0.647	0.604	6.6	97	0.00	8.20
21	T	2,2-dichloropropane	0.337	0.312	7.4	101	0.00	8.25
22	T	cis-1,2-dichloroethene	0.276	0.241	12.7	97	0.00	7.96
			Amount	Calc.	%Drift			
23		tetrahydrofuran	20.000	22.053	-10.3	117	0.00	8.50
			AvgRF	CCRF	%Dev			
24	T	bromochloromethane	0.113	0.108	4.4	97	0.00	8.13
25	T	chloroform	0.433	0.414	4.4	101	0.00	8.17
26	T	1,1,1-trichloroethane	0.362	0.340	6.1	98	0.00	8.94

Initial Calibration Verification

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1065-ICV1065
Lab FileID: T30589.D

27	T	carbon tetrachloride	0.291	0.278	4.5	97	0.00	9.31
28	T	1,1-dichloropropene	0.311	0.291	6.4	98	0.00	9.11
29	T	benzene	0.909	0.866	4.7	99	0.00	9.34
30	T	1,2-dichloroethane	0.290	0.273	5.9	99	0.00	8.83
31		tert-amyl methyl ether	0.540	0.481	10.9	101	0.00	9.47
32	T	trichloroethene	0.255	0.233	8.6	97	0.00	9.98
33	T	1,2-dichloropropane	0.248	0.231	6.9	96	0.00	9.94
34	T	dibromomethane	0.126	0.121	4.0	97	0.00	9.92
35	T	bromodichloromethane	0.287	0.291	-1.4	102	0.00	10.03
			Amount	Calc.	%Drift			
36		1,4-dioxane	100.000	88.224	11.8	91	0.02	10.14
			AvgRF	CCRF	%Dev			
37	T	cis-1,3-dichloropropene	0.352	0.329	6.5	95	0.00	10.66
38		4-methyl-2-pentanone	0.113	0.127	-12.4	104	0.00	10.76
39	T	toluene	0.540	0.511	5.4	97	0.00	11.46
40	T	trans-1,3-dichloropropene	0.268	0.275	-2.6	104	0.00	11.09
41	S	4-bromofluorobenzene (S)	0.348	0.357	-2.6	97	0.00	14.11
42	T	1,1,2-Trichloroethane	0.160	0.152	5.0	99	0.00	11.26
43	T	tetrachloroethene	0.248	0.230	7.3	97	0.00	12.21
44	T	1,3-dichloropropane	0.280	0.264	5.7	96	0.00	11.51
			Amount	Calc.	%Drift			
45		2-hexanone	20.000	21.520	-7.6	112	0.00	11.63
			AvgRF	CCRF	%Dev			
46	T	dibromochloromethane	0.182	0.190	-4.4	101	0.00	11.80
47	T	1,2-dibromoethane	0.154	0.153	0.6	98	0.00	12.06
48	P	chlorobenzene	0.663	0.599	9.7	93	0.00	12.90
49	T	1,1,1,2-tetrachloroethane	0.205	0.207	-1.0	102	0.00	12.82
50	T	ethylbenzene	1.062	0.996	6.2	97	0.00	13.08
51	T	m,p-xylene	0.419	0.399	4.8	96	0.00	13.27
52	T	o-xylene	0.428	0.398	7.0	96	0.00	13.69
53	T	styrene	0.610	0.598	2.0	97	0.00	13.61
54	P	bromoform	0.103	0.106	-2.9	100	0.00	13.43
55	T	isopropylbenzene	1.087	1.006	7.5	94	0.00	14.06
56	T	bromobenzene	0.266	0.255	4.1	99	0.00	14.34
57	P	1,1,2,2-tetrachloroethane	0.177	0.176	0.6	103	0.00	13.69
58	T	1,2,3-trichloropropane	0.184	0.180	2.2	99	0.00	13.84
59	T	n-propylbenzene	1.277	1.169	8.5	92	0.00	14.51
60	T	2-chlorotoluene	0.273	0.249	8.8	93	0.00	14.62
61	T	4-chlorotoluene	0.801	0.750	6.4	95	0.00	14.70
62	T	1,3,5-trimethylbenzene	0.897	0.853	4.9	95	0.00	14.79
63	T	tert-butylbenzene	0.734	0.675	8.0	91	0.00	15.10
64	T	1,2,4-trimethylbenzene	0.875	0.842	3.8	94	0.00	15.20
65	T	sec-butylbenzene	1.132	1.047	7.5	91	0.00	15.32
66	T	1,3-dichlorobenzene	0.526	0.494	6.1	95	0.00	15.43
67	T	4-isopropyltoluene	0.826	0.854	-3.4	100	0.00	15.50
68	T	1,4-dichlorobenzene	0.499	0.499	0.0	100	0.00	15.49
69	T	1,2-dichlorobenzene	0.474	0.437	7.8	94	0.00	15.86
70	S	1,2-dichlorobenzene-d4 (S	0.332	0.359	-8.1	105	0.00	15.84
71	T	n-butylbenzene	0.817	0.795	2.7	94	0.00	15.92
72	T	1,2-dibromo-3-chloropropa	0.025	0.023	8.0	98	0.00	16.34
73		1,3,5-Trichlorobenzene	0.342	0.318	7.0	93	0.00	17.17
74	T	1,2,4-trichlorobenzene	0.259	0.248	4.2	95	0.00	17.74
75	T	hexachlorobutadiene	0.178	0.164	7.9	96	0.00	18.05
76	T	naphthalene	0.329	0.311	5.5	96	0.00	18.02
77	T	1,2,3-trichlorobenzene	0.194	0.181	6.7	96	0.00	18.24

Initial Calibration Verification

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1065-ICV1065
Lab FileID: T30589.D

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

T30582.D T130710D.M Wed Jul 10 15:30:21 2013

Continuing Calibration Summary

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1092-CC1065
Lab FileID: T31345.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\130924\T31345.D Vial: 2
Acq On : 24 Sep 2013 9:50 am Operator: jaimem
Sample : cc1065-5 Inst : MST
Misc : MS29969,MST1092,,,,5,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\T130710D.M (RTE Integrator)
Title : Method 524
Last Update : Wed Sep 18 08:44:25 2013
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	fluorobenzene	1.000	1.000	0.0	163	0.00	9.54
2	T	dichlorodifluoromethane	0.198	0.337	-70.2#	259#	0.00	3.89
3	P	chloromethane	0.325	0.367	-12.9	182	0.00	4.13
			Amount	Calc.	%Drift			
4	T	vinyl chloride	5.000	5.445	-8.9	181	0.00	4.38
5	T	bromomethane	5.000	5.281	-5.6	171	0.00	4.87
6		Ethanol	500.000	474.698	5.1	164	0.00	5.03
			AvgRF	CCRF	%Dev			
7	T	chloroethane	0.150	0.156	-4.0	155	0.00	5.02
8		acetone	0.018	0.016	11.1	218#	0.02	5.82
9		ethyl ether	0.145	0.128	11.7	140	0.01	5.93
10	T	trichlorofluoromethane	0.374	0.405	-8.3	168	0.00	5.68
			Amount	Calc.	%Drift			
11	T	1,1-dichloroethene	5.000	4.969	0.6	160	0.00	6.26
			AvgRF	CCRF	%Dev			
12	T	methylene chloride	0.263	0.251	4.6	157	0.00	6.41
13	T	tertiary butyl alcohol	0.011	0.008	27.3	130	0.00	6.26
14		carbon disulfide	0.649	0.654	-0.8	160	0.00	6.69
			Amount	Calc.	%Drift			
15	T	trans-1,2-dichloroethene	5.000	4.875	2.5	153	0.00	7.12
			AvgRF	CCRF	%Dev			
16	T	Methyl tert butyl ether	0.484	0.376	22.3	127	0.00	7.21
17	P	1,1-dichloroethane	0.437	0.416	4.8	151	0.00	7.38
18		2-butanone	0.668	0.600	10.2	144	0.00	7.79
19		di-isopropyl ether	0.728	0.700	3.8	157	0.00	7.79
20		tert-butyl ethyl ether	0.647	0.556	14.1	143	0.00	8.20
21	T	2,2-dichloropropane	0.337	0.309	8.3	149	0.00	8.24
22	T	cis-1,2-dichloroethene	0.276	0.264	4.3	152	0.00	7.96
			Amount	Calc.	%Drift			
23		tetrahydrofuran	5.000	4.306	13.9	149	0.00	8.50
			AvgRF	CCRF	%Dev			
24	T	bromochloromethane	0.113	0.104	8.0	154	0.00	8.12
25	T	chloroform	0.433	0.400	7.6	148	0.00	8.16
26	T	1,1,1-trichloroethane	0.362	0.342	5.5	153	0.00	8.93

Continuing Calibration Summary

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1092-CC1065
Lab FileID: T31345.D

27	T	carbon tetrachloride	0.291	0.288	1.0	158	0.00	9.30
28	T	1,1-dichloropropene	0.311	0.284	8.7	150	0.00	9.11
29	T	benzene	0.909	0.873	4.0	151	0.00	9.34
30	T	1,2-dichloroethane	0.290	0.235	19.0	131	0.00	8.83
31		tert-amyl methyl ether	0.540	0.413	23.5	127	0.00	9.46
32	T	trichloroethene	0.255	0.240	5.9	146	0.00	9.98
33	T	1,2-dichloropropane	0.248	0.234	5.6	150	0.00	9.94
34	T	dibromomethane	0.126	0.104	17.5	132	0.00	9.91
35	T	bromodichloromethane	0.287	0.275	4.2	155	0.00	10.03
		----------	Amount	Calc.	%Drift	----------		
36		1,4-dioxane	25.000	29.434	-17.7	222	0.01	10.13
		----------	AvgRF	CCRF	%Dev	----------		
37	T	cis-1,3-dichloropropene	0.352	0.308	12.5	147	0.00	10.66
38		4-methyl-2-pentanone	0.113	0.095	15.9	134	0.00	10.76
39	T	toluene	0.540	0.519	3.9	156	0.00	11.46
40	T	trans-1,3-dichloropropene	0.268	0.226	15.7	137	0.00	11.09
41	S	4-bromofluorobenzene (S)	0.348	0.336	3.4	163	0.00	14.11
42	T	1,1,2-Trichloroethane	0.160	0.139	13.1	138	0.00	11.26
43	T	tetrachloroethene	0.248	0.254	-2.4	161	0.00	12.21
44	T	1,3-dichloropropane	0.280	0.242	13.6	133	0.00	11.51
		----------	Amount	Calc.	%Drift	----------		
45		2-hexanone	5.000	3.496	30.1#	116	0.01	11.64
		----------	AvgRF	CCRF	%Dev	----------		
46	T	dibromochloromethane	0.182	0.177	2.7	155	0.00	11.79
47	T	1,2-dibromoethane	0.154	0.131	14.9	135	0.00	12.05
48	P	chlorobenzene	0.663	0.626	5.6	152	0.00	12.90
49	T	1,1,1,2-tetrachloroethane	0.205	0.204	0.5	161	0.00	12.81
50	T	ethylbenzene	1.062	0.978	7.9	150	0.00	13.08
51	T	m,p-xylene	0.419	0.381	9.1	146	0.00	13.27
52	T	o-xylene	0.428	0.394	7.9	151	0.00	13.68
53	T	styrene	0.610	0.561	8.0	149	0.00	13.61
54	P	bromoform	0.103	0.108	-4.9	175	0.00	13.43
55	T	isopropylbenzene	1.087	0.975	10.3	150	0.00	14.05
56	T	bromobenzene	0.266	0.249	6.4	153	0.00	14.34
57	P	1,1,2,2-tetrachloroethane	0.177	0.152	14.1	142	0.00	13.69
58	T	1,2,3-trichloropropane	0.184	0.152	17.4	141	0.00	13.84
59	T	n-propylbenzene	1.277	1.154	9.6	148	0.00	14.50
60	T	2-chlorotoluene	0.273	0.252	7.7	155	0.00	14.62
61	T	4-chlorotoluene	0.801	0.717	10.5	146	0.00	14.70
62	T	1,3,5-trimethylbenzene	0.897	0.818	8.8	151	0.00	14.79
63	T	tert-butylbenzene	0.734	0.669	8.9	151	0.00	15.10
64	T	1,2,4-trimethylbenzene	0.875	0.792	9.5	151	0.00	15.20
65	T	sec-butylbenzene	1.132	1.080	4.6	159	0.00	15.32
66	T	1,3-dichlorobenzene	0.526	0.500	4.9	159	0.00	15.42
67	T	4-isopropyltoluene	0.826	0.765	7.4	159	0.00	15.49
68	T	1,4-dichlorobenzene	0.499	0.477	4.4	158	0.00	15.49
69	T	1,2-dichlorobenzene	0.474	0.431	9.1	149	0.00	15.86
70	S	1,2-dichlorobenzene-d4 (S	0.332	0.315	5.1	159	0.00	15.84
71	T	n-butylbenzene	0.817	0.766	6.2	161	0.00	15.92
72	T	1,2-dibromo-3-chloropropa	0.025	0.028	-12.0	165	0.00	16.34
73		1,3,5-Trichlorobenzene	0.342	0.368	-7.6	176	0.00	17.16
74	T	1,2,4-trichlorobenzene	0.259	0.246	5.0	159	0.00	17.74
75	T	hexachlorobutadiene	0.178	0.230	-29.2	235#	0.00	18.05
76	T	naphthalene	0.329	0.273	17.0	143	0.00	18.02
77	T	1,2,3-trichlorobenzene	0.194	0.184	5.2	165	0.00	18.23

Continuing Calibration Summary

Job Number: MC24601
Account: KATMES Katahdin Analytical Services
Project: RCNYCR: NWIRP Bethpage, NY

Sample: MST1092-CC1065
Lab FileID: T31345.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
T30580.D T130710D.M Tue Sep 24 15:45:10 2013

New England ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130924\
Data File : T31366.D
Acq On : 24 Sep 2013 7:18 pm
Operator : jaimem
Sample : mc24601-1
Misc : MS30001,MST1092,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 25 07:52:54 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Sep 18 08:44:25 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	9.538	96	158406	5.00	ug/L	0.00
System Monitoring Compounds						
41) 4-bromofluorobenzene (S)	14.105	95	47784	4.34	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 86.80%			
70) 1,2-dichlorobenzene-d4...	15.837	152	49707	4.73	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 94.60%			
Target Compounds						Qvalue

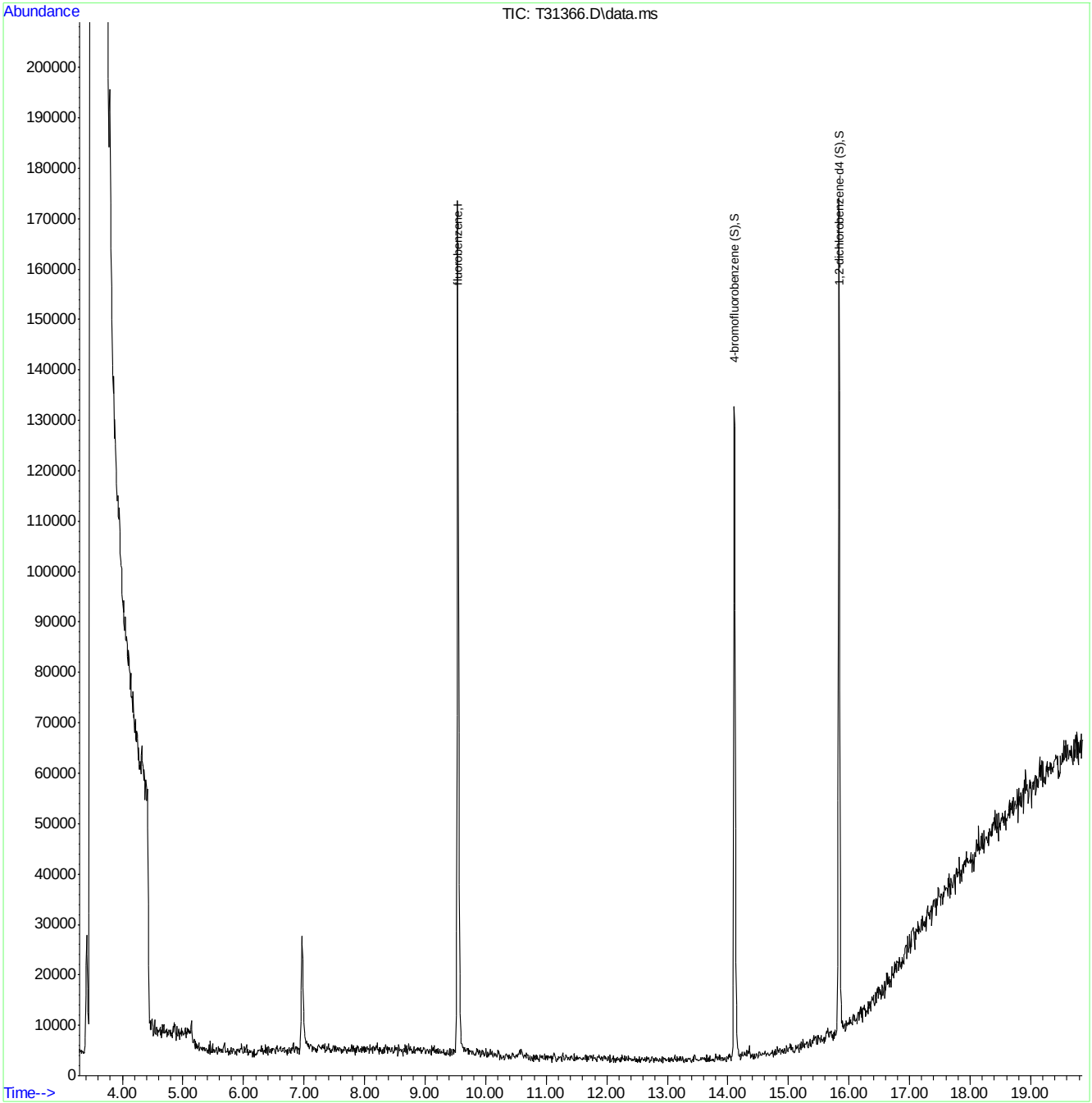
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130924\
Data File : T31366.D
Acq On : 24 Sep 2013 7:18 pm
Operator : jaimem
Sample : mc24601-1
Misc : MS30001,MST1092,,,,5,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 25 07:52:54 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Sep 18 08:44:25 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130924\
Data File : T31367.D
Acq On : 24 Sep 2013 7:45 pm
Operator : jaimem
Sample : mc24601-2
Misc : MS30001,MST1092,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 25 07:53:47 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Sep 18 08:44:25 2013
Response via : Initial Calibration

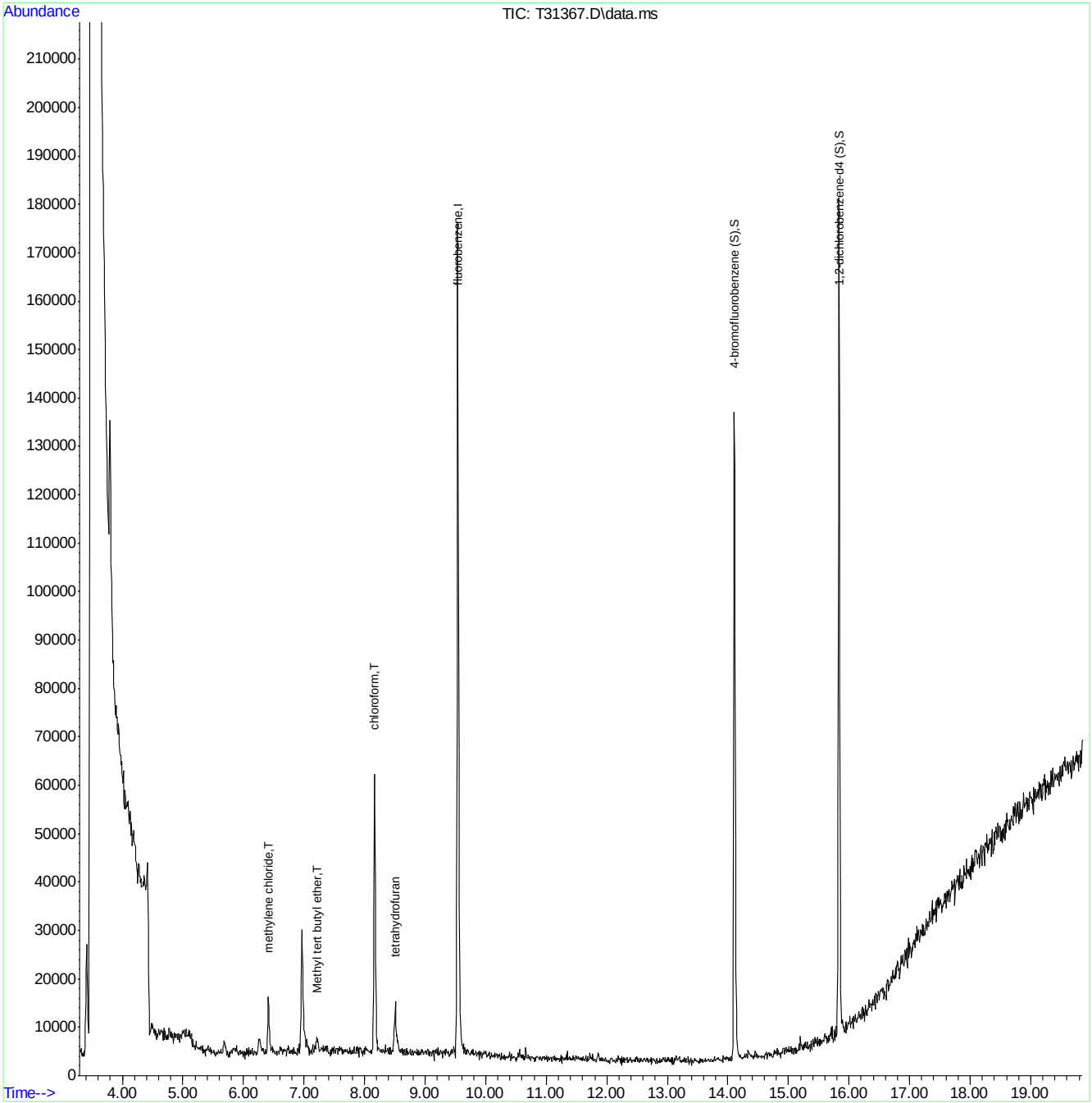
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	9.538	96	159480	5.00	ug/L	0.00
System Monitoring Compounds						
41) 4-bromofluorobenzene (S)	14.105	95	50503	4.56	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 91.20%			
70) 1,2-dichlorobenzene-d4...	15.837	152	52340	4.94	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 98.80%			
Target Compounds						Qvalue
12) methylene chloride	6.406	84	5562	0.66	ug/L #	62
16) Methyl tert butyl ether	7.214	73	3222	0.21	ug/L	78
23) tetrahydrofuran	8.501	42	8561	8.27	ug/L	77
25) chloroform	8.164	83	44775	3.24	ug/L	96

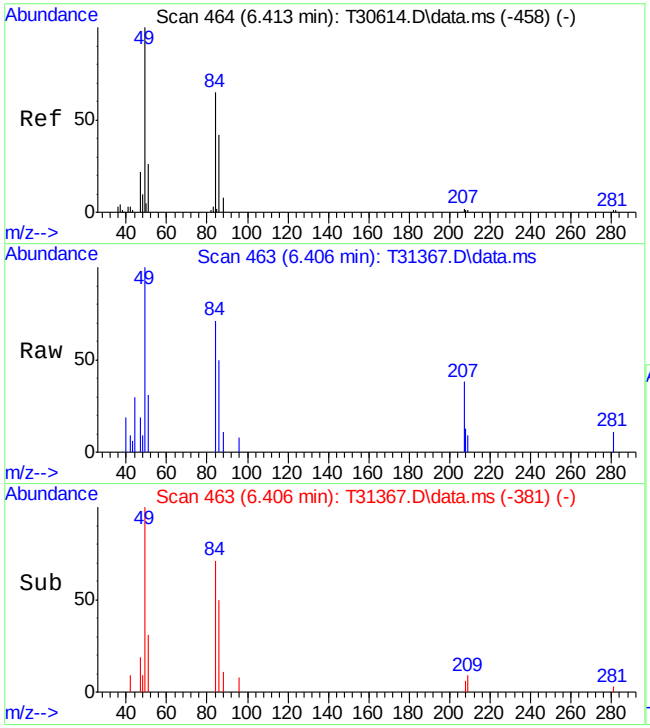
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130924\
Data File : T31367.D
Acq On : 24 Sep 2013 7:45 pm
Operator : jaimem
Sample : mc24601-2
Misc : MS30001,MST1092,,,,5,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 25 07:53:47 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Sep 18 08:44:25 2013
Response via : Initial Calibration

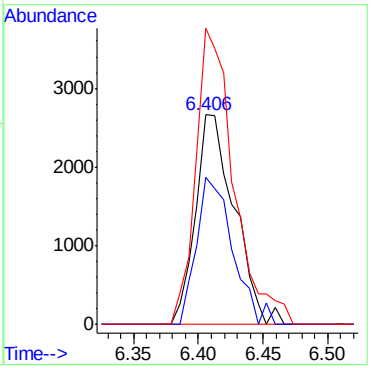


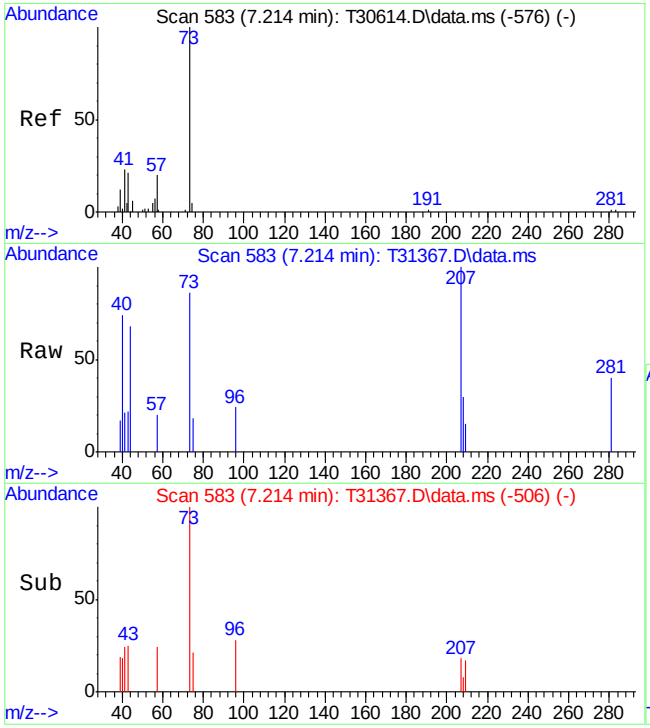


#12
methylene chloride
Concen: 0.66 ug/L
RT: 6.406 min Scan# 463
Delta R.T. -0.006 min
Lab File: T31367.D
Acq: 24 Sep 2013 7:45 pm

Tgt Ion: 84 Resp: 5562

Ion	Ratio	Lower	Upper
84	100		
86	70.4	42.9	82.9
49	141.4	194.6	234.6#

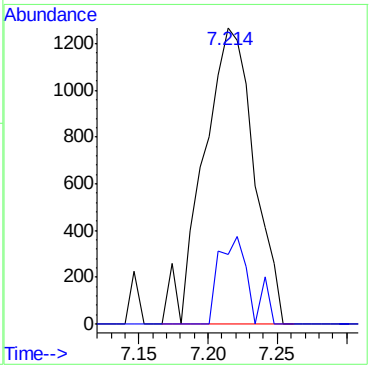


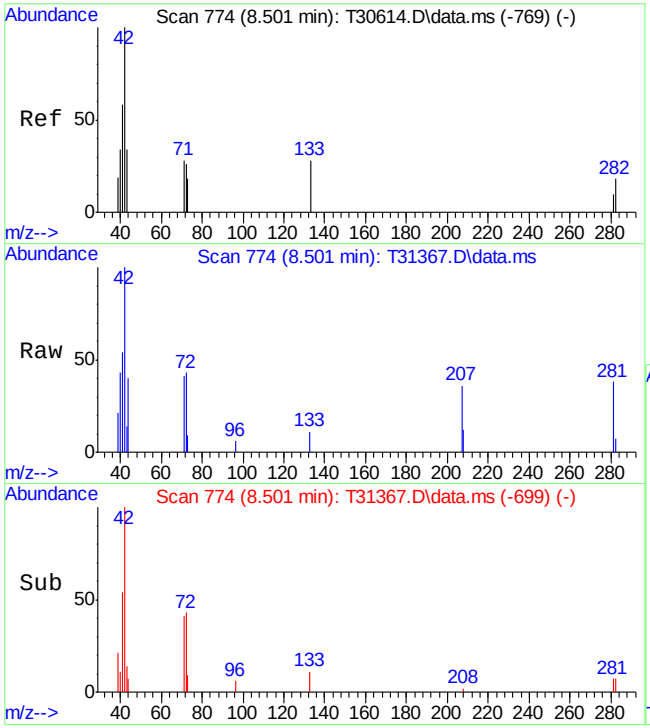


#16
Methyl tert butyl ether
Concen: 0.21 ug/L
RT: 7.214 min Scan# 583
Delta R.T. 0.000 min
Lab File: T31367.D
Acq: 24 Sep 2013 7:45 pm

Tgt Ion: 73 Resp: 3222

Ion	Ratio	Lower	Upper
73	100		
57	23.7	16.7	56.7

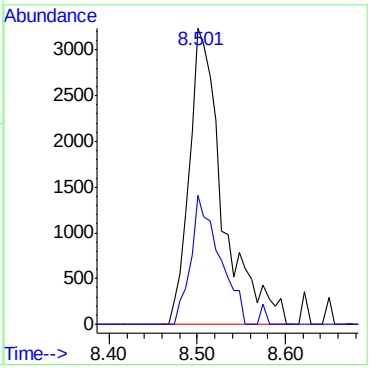


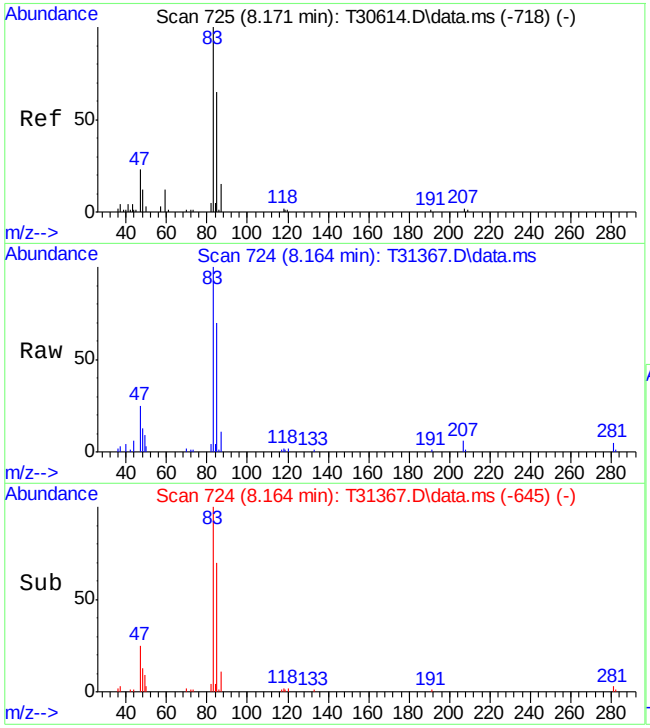


#23
tetrahydrofuran
Concen: 8.27 ug/L
RT: 8.501 min Scan# 774
Delta R.T. 0.007 min
Lab File: T31367.D
Acq: 24 Sep 2013 7:45 pm

Tgt Ion: 42 Resp: 8561

Ion	Ratio	Lower	Upper
42	100		
72	37.2	0.0	55.6

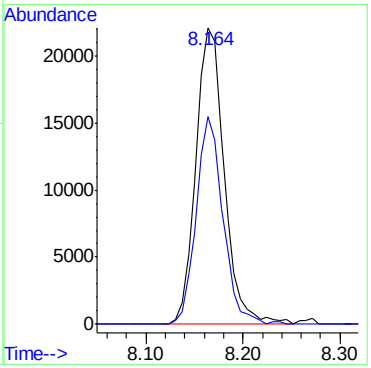




#25
chloroform
Concen: 3.24 ug/L
RT: 8.164 min Scan# 724
Delta R.T. -0.000 min
Lab File: T31367.D
Acq: 24 Sep 2013 7:45 pm

Tgt Ion: 83 Resp: 44775

Ion	Ratio	Lower	Upper
83	100		
85	70.2	46.7	86.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130924\
Data File : T31349.D
Acq On : 24 Sep 2013 11:39 am
Operator : jaimem
Sample : mb
Misc : MS30001,MST1092,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 24 15:46:34 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Sep 18 08:44:25 2013
Response via : Initial Calibration

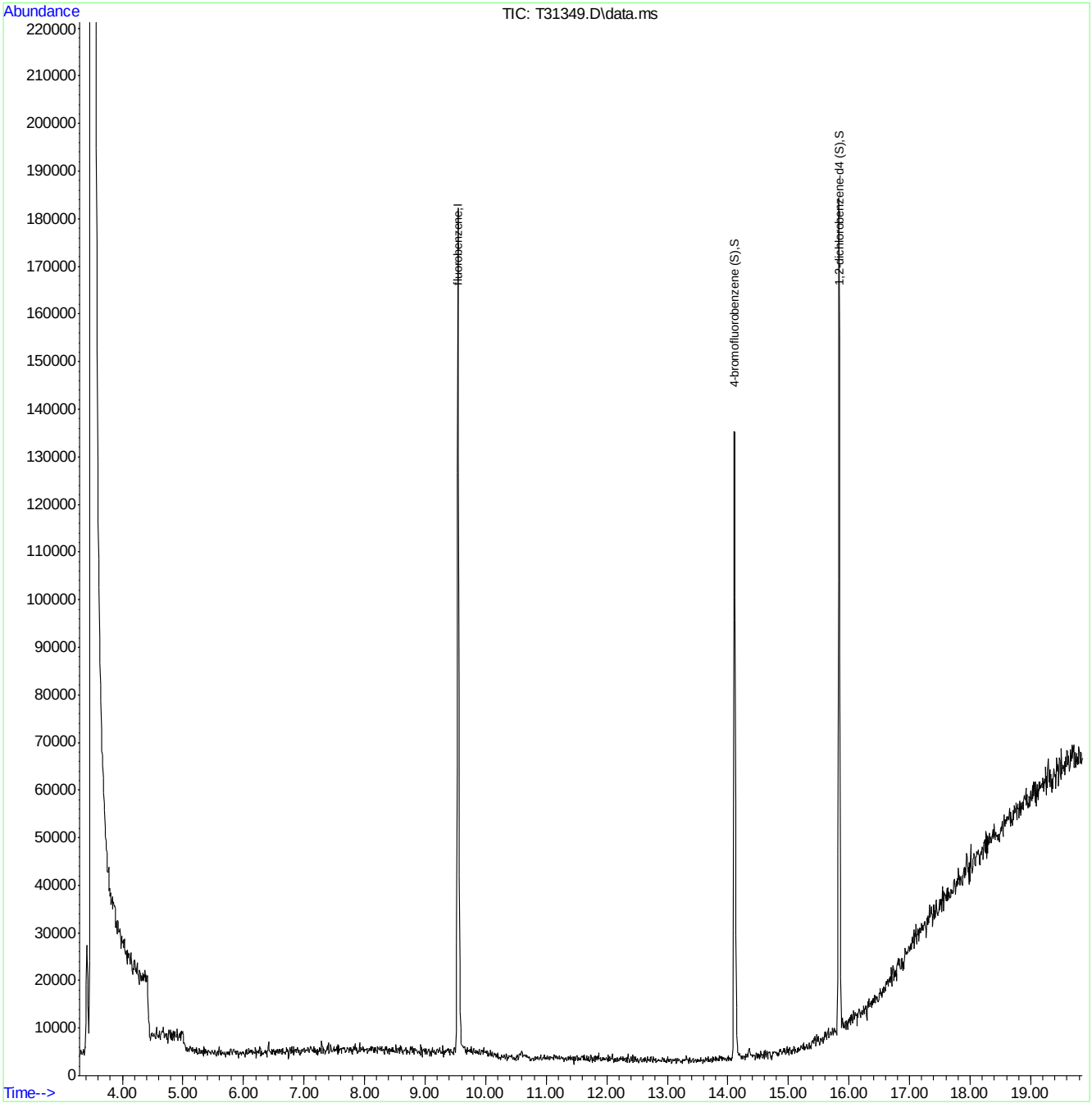
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	9.545	96	166898	5.00	ug/L	0.00
System Monitoring Compounds						
41) 4-bromofluorobenzene (S)	14.105	95	50845	4.38	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 87.60%			
70) 1,2-dichlorobenzene-d4...	15.837	152	51088	4.61	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 92.20%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130924\
Data File : T31349.D
Acq On : 24 Sep 2013 11:39 am
Operator : jaimem
Sample : mb
Misc : MS30001,MST1092,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 24 15:46:34 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Sep 18 08:44:25 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski
09/25/13 08:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130924\
Data File : T31346.D
Acq On : 24 Sep 2013 10:18 am
Operator : jaimem
Sample : bs
Misc : MS29969,MST1092,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 24 11:07:31 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Sep 18 08:44:25 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	186177	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.105	95	62855	4.86	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 97.20%				
70) 1,2-dichlorobenzene-d4...	15.837	152	60404	4.89	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 97.80%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.893	85	68525	9.30	ug/L		98
3) chloromethane	4.136	50	69717	5.77	ug/L		96
4) vinyl chloride	4.378	62	73427	5.58	ug/L		98
5) bromomethane	4.870	96	33689	5.03	ug/L		90
6) Ethanol	5.038	45	20763	403.35	ug/L		94
7) chloroethane	5.025	64	31082	5.58	ug/L		100
8) acetone	5.826	58	3274m	4.80	ug/L		
9) ethyl ether	5.921	59	25800	4.79	ug/L		77
10) trichlorofluoromethane	5.678	101	77361	5.55	ug/L		93
11) 1,1-dichloroethene	6.264	96	38854	4.88	ug/L	#	65
12) methylene chloride	6.413	84	47043	4.80	ug/L	#	61
13) tertiary butyl alcohol	6.264	59	16926	40.96	ug/L		95
14) carbon disulfide	6.689	76	121498	5.03	ug/L		100
15) trans-1,2-dichloroethene	7.120	96	45146	4.95	ug/L	#	63
16) Methyl tert butyl ether	7.214	73	73678	4.09	ug/L		81
17) 1,1-dichloroethane	7.376	63	79018	4.86	ug/L		90
18) 2-butanone	7.787	43	116561	4.69	ug/L	#	99
19) di-isopropyl ether	7.793	45	137711	5.08	ug/L		97
20) tert-butyl ethyl ether	8.198	59	104952	4.36	ug/L		85
21) 2,2-dichloropropane	8.245	77	59079	4.71	ug/L		97
22) cis-1,2-dichloroethene	7.955	96	47255	4.59	ug/L	#	68
23) tetrahydrofuran	8.514	42	5510	4.56	ug/L		85
24) bromochloromethane	8.124	128	20159	4.79	ug/L	#	64
25) chloroform	8.164	83	77646	4.81	ug/L		97
26) 1,1,1-trichloroethane	8.932	97	64991	4.83	ug/L		87
27) carbon tetrachloride	9.302	117	55060	5.09	ug/L		100
28) 1,1-dichloropropene	9.114	75	54208	4.68	ug/L		92
29) benzene	9.343	78	169570	5.01	ug/L		99
30) 1,2-dichloroethane	8.831	62	46971	4.36	ug/L		92
31) tert-amyl methyl ether	9.464	73	85557	4.26	ug/L		78
32) trichloroethene	9.976	95	47269	4.97	ug/L		98
33) 1,2-dichloropropane	9.936	63	43198	4.67	ug/L		95
34) dibromomethane	9.909	93	20480	4.36	ug/L		90
35) bromodichloromethane	10.023	83	52589	4.92	ug/L		99
36) 1,4-dioxane	10.138	88	535	32.30	ug/L	#	1
37) cis-1,3-dichloropropene	10.663	75	59262	4.52	ug/L		93
38) 4-methyl-2-pentanone	10.757	43	19286	4.58	ug/L		93
39) toluene	11.451	92	97939	4.87	ug/L		97
40) trans-1,3-dichloropropene	11.094	75	47561	4.76	ug/L		98
42) 1,1,2-Trichloroethane	11.263	97	26907	4.52	ug/L		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130924\
Data File : T31346.D
Acq On : 24 Sep 2013 10:18 am
Operator : jaimem
Sample : bs
Misc : MS29969,MST1092,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 24 11:07:31 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Sep 18 08:44:25 2013
Response via : Initial Calibration

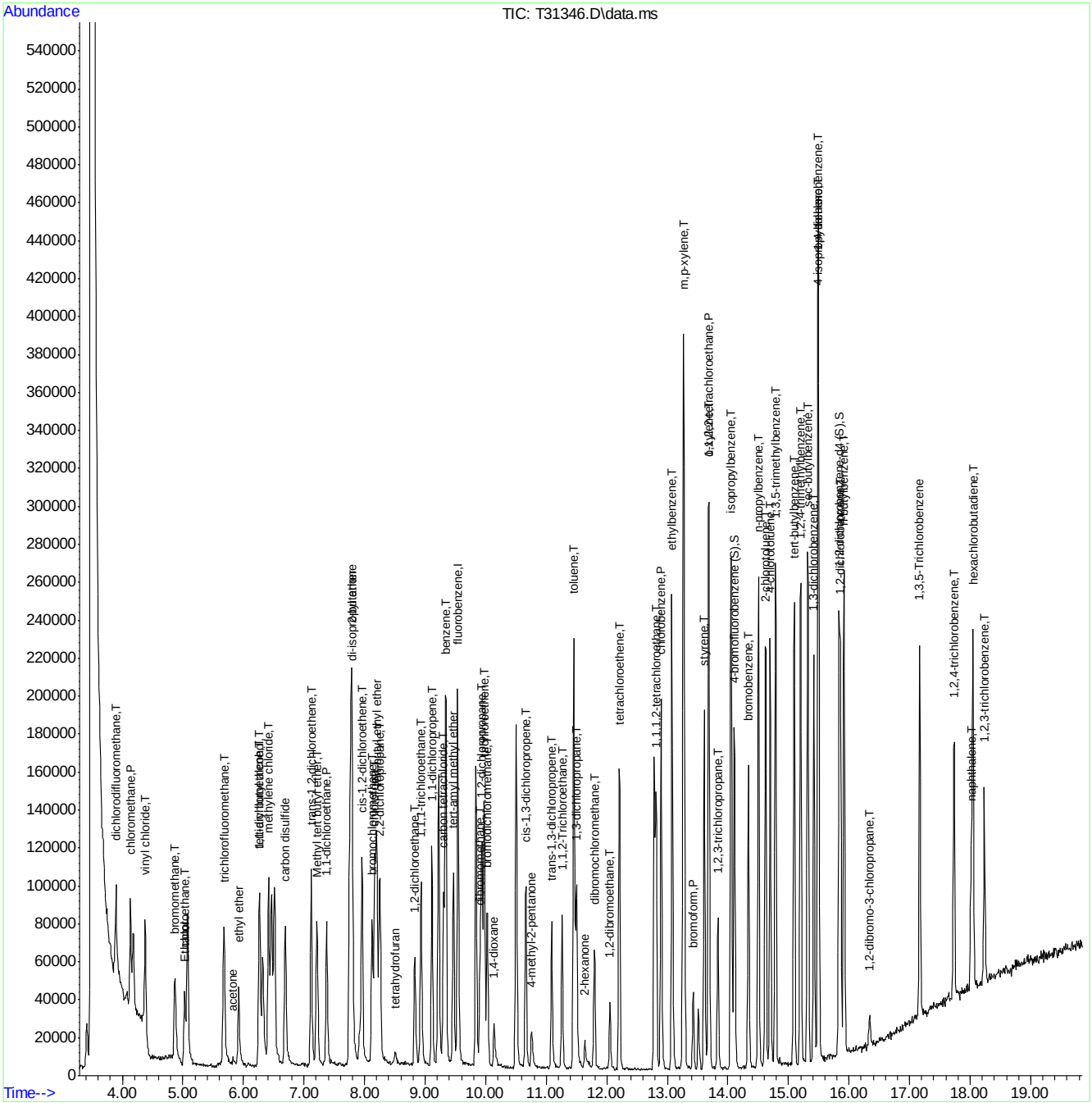
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) tetrachloroethene	12.206	166	49198	5.32	ug/L		95
44) 1,3-dichloropropane	11.498	76	48295	4.63	ug/L		98
45) 2-hexanone	11.633	43	15729	3.88	ug/L		99
46) dibromochloromethane	11.795	129	34456	5.09	ug/L		99
47) 1,2-dibromoethane	12.051	107	26409	4.62	ug/L		100
48) chlorobenzene	12.900	112	112781	4.57	ug/L		98
49) 1,1,1,2-tetrachloroethane	12.812	131	39369	5.15	ug/L		95
50) ethylbenzene	13.075	91	189246	4.79	ug/L		99
51) m,p-xylene	13.270	106	146864	9.42	ug/L		99
52) o-xylene	13.688	106	72587	4.55	ug/L		90
53) styrene	13.614	104	102954	4.53	ug/L		97
54) bromoform	13.425	173	20619	5.40	ug/L		94
55) isopropylbenzene	14.052	105	184498	4.56	ug/L		97
56) bromobenzene	14.341	156	49857	5.04	ug/L	#	86
57) 1,1,2,2-tetrachloroethane	13.688	83	30062	4.56	ug/L		95
58) 1,2,3-trichloropropane	13.836	75	30300	4.43	ug/L		93
59) n-propylbenzene	14.503	91	218828	4.60	ug/L		99
60) 2-chlorotoluene	14.617	126	47268	4.65	ug/L		98
61) 4-chlorotoluene	14.698	91	139467	4.68	ug/L		99
62) 1,3,5-trimethylbenzene	14.786	105	155404	4.66	ug/L		97
63) tert-butylbenzene	15.096	119	125130	4.58	ug/L		99
64) 1,2,4-trimethylbenzene	15.204	105	149451	4.59	ug/L		98
65) sec-butylbenzene	15.318	105	199347	4.73	ug/L		98
66) 1,3-dichlorobenzene	15.419	146	94769	4.84	ug/L		99
67) 4-isopropyltoluene	15.493	119	156228	5.08	ug/L		99
68) 1,4-dichlorobenzene	15.486	146	94907	5.11	ug/L		96
69) 1,2-dichlorobenzene	15.857	146	83681	4.74	ug/L		98
71) n-butylbenzene	15.918	91	148291	4.87	ug/L		97
72) 1,2-dibromo-3-chloropr...	16.342	75	4471	4.77	ug/L		93
73) 1,3,5-Trichlorobenzene	17.164	180	67184	5.28	ug/L		100
74) 1,2,4-trichlorobenzene	17.736	180	49892	5.17	ug/L		90
75) hexachlorobutadiene	18.046	225	43745	6.59	ug/L		95
76) naphthalene	18.019	128	51280	4.18	ug/L		100
77) 1,2,3-trichlorobenzene	18.235	180	36218	5.00	ug/L		98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130924\
Data File : T31346.D
Acq On : 24 Sep 2013 10:18 am
Operator : jaimem
Sample : bs
Misc : MS29969,MST1092,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 24 11:07:31 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Sep 18 08:44:25 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Tomasz Torski
09/25/13 08:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130924\
Data File : T31347.D
Acq On : 24 Sep 2013 10:45 am
Operator : jaimem
Sample : bsd
Misc : MS29969,MST1092,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 24 15:45:33 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Sep 18 08:44:25 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	176070	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.106	95	60445	4.94	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 98.80%				
70) 1,2-dichlorobenzene-d4...	15.837	152	59354	5.08	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 101.60%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.893	85	65016	9.33	ug/L		94
3) chloromethane	4.136	50	65071	5.69	ug/L		99
4) vinyl chloride	4.378	62	71885	5.81	ug/L		100
5) bromomethane	4.870	96	32857	5.20	ug/L		88
6) Ethanol	5.038	45	21655	441.14	ug/L		90
7) chloroethane	5.032	64	28713	5.45	ug/L		97
8) acetone	5.854	58	2881	4.46	ug/L		89
9) ethyl ether	5.921	59	24139	4.73	ug/L	#	68
10) trichlorofluoromethane	5.678	101	75126	5.70	ug/L		94
11) 1,1-dichloroethene	6.264	96	39542	5.26	ug/L	#	63
12) methylene chloride	6.413	84	45829	4.95	ug/L	#	63
13) tertiary butyl alcohol	6.258	59	15889	40.66	ug/L		93
14) carbon disulfide	6.689	76	119375	5.23	ug/L		100
15) trans-1,2-dichloroethene	7.120	96	43780	5.08	ug/L	#	64
16) Methyl tert butyl ether	7.214	73	74693	4.38	ug/L		78
17) 1,1-dichloroethane	7.376	63	78529	5.11	ug/L		96
18) 2-butanone	7.787	43	116513	4.95	ug/L	#	95
19) di-isopropyl ether	7.794	45	134870	5.26	ug/L		96
20) tert-butyl ethyl ether	8.198	59	101010	4.44	ug/L		85
21) 2,2-dichloropropane	8.252	77	54899	4.63	ug/L		100
22) cis-1,2-dichloroethene	7.955	96	46883	4.82	ug/L	#	65
23) tetrahydrofuran	8.501	42	5517	4.83	ug/L		81
24) bromochloromethane	8.124	128	19873	4.99	ug/L	#	61
25) chloroform	8.164	83	74919	4.91	ug/L		94
26) 1,1,1-trichloroethane	8.932	97	64397	5.06	ug/L		87
27) carbon tetrachloride	9.303	117	53859	5.26	ug/L		98
28) 1,1-dichloropropene	9.114	75	56805	5.19	ug/L		98
29) benzene	9.343	78	166973	5.22	ug/L		97
30) 1,2-dichloroethane	8.831	62	46764	4.59	ug/L		93
31) tert-amyl methyl ether	9.464	73	80236	4.22	ug/L		81
32) trichloroethene	9.976	95	44985	5.00	ug/L		97
33) 1,2-dichloropropane	9.936	63	43356	4.96	ug/L		97
34) dibromomethane	9.909	93	21141	4.76	ug/L		93
35) bromodichloromethane	10.030	83	52417	5.19	ug/L		95
36) 1,4-dioxane	10.131	88	362m	28.52	ug/L		
37) cis-1,3-dichloropropene	10.663	75	57915	4.67	ug/L		99
38) 4-methyl-2-pentanone	10.758	43	19473	4.89	ug/L		93
39) toluene	11.451	92	97189	5.11	ug/L		100
40) trans-1,3-dichloropropene	11.088	75	46356	4.91	ug/L		100
42) 1,1,2-Trichloroethane	11.263	97	26912	4.78	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130924\
Data File : T31347.D
Acq On : 24 Sep 2013 10:45 am
Operator : jaimem
Sample : bsd
Misc : MS29969,MST1092,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 24 15:45:33 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Sep 18 08:44:25 2013
Response via : Initial Calibration

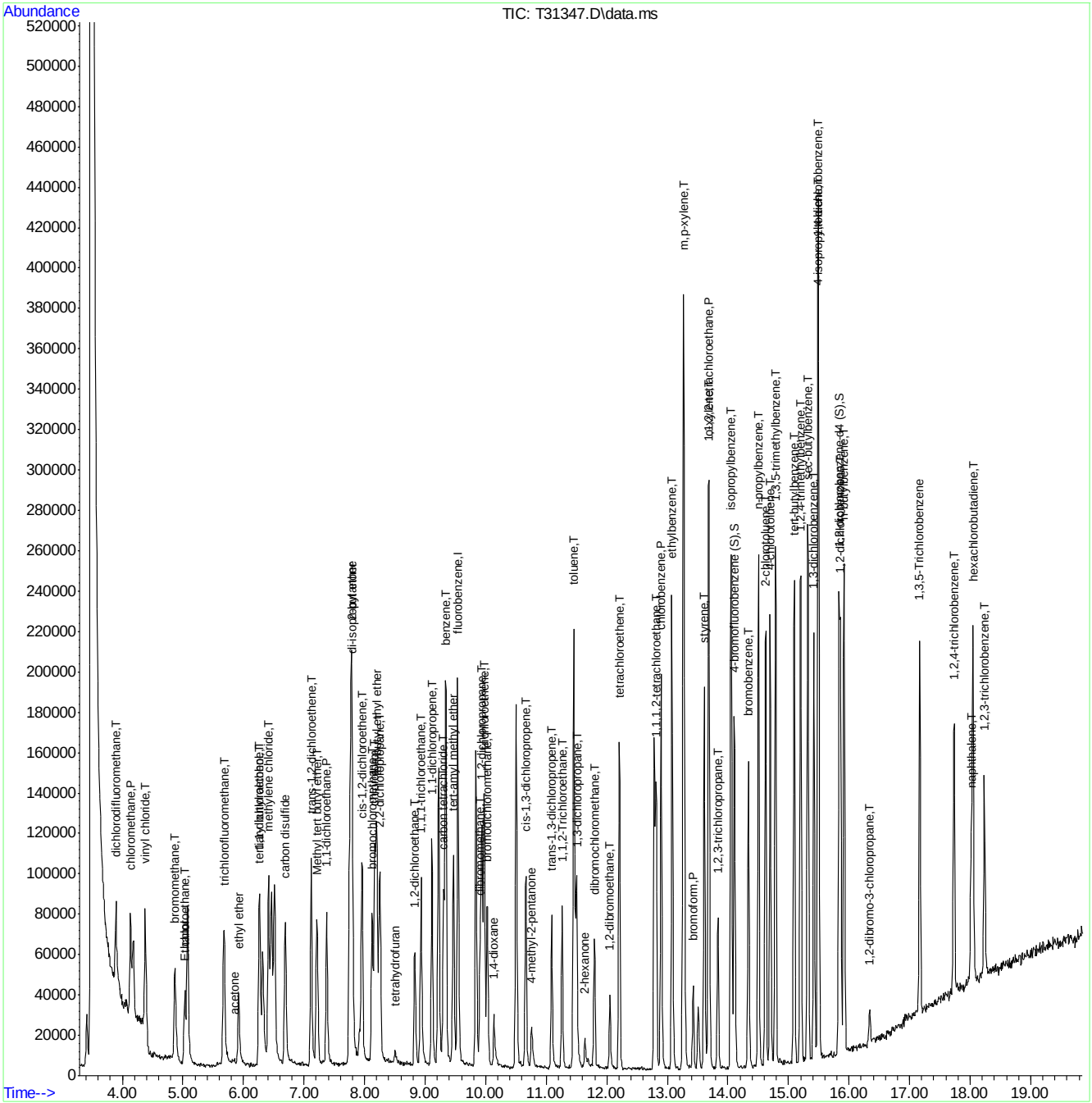
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) tetrachloroethene	12.206	166	48963	5.60	ug/L		94
44) 1,3-dichloropropane	11.505	76	45791	4.64	ug/L		95
45) 2-hexanone	11.640	43	16762	4.33	ug/L		91
46) dibromochloromethane	11.795	129	33473	5.23	ug/L		96
47) 1,2-dibromoethane	12.051	107	26262	4.85	ug/L		92
48) chlorobenzene	12.900	112	114396	4.90	ug/L		99
49) 1,1,1,2-tetrachloroethane	12.812	131	38380	5.31	ug/L		99
50) ethylbenzene	13.082	91	183777	4.92	ug/L		99
51) m,p-xylene	13.270	106	143741	9.75	ug/L		100
52) o-xylene	13.688	106	72934	4.83	ug/L		97
53) styrene	13.614	104	102698	4.78	ug/L		96
54) bromoform	13.425	173	20047	5.55	ug/L		97
55) isopropylbenzene	14.052	105	182321	4.76	ug/L		96
56) bromobenzene	14.341	156	50222	5.37	ug/L	#	85
57) 1,1,2,2-tetrachloroethane	13.681	83	29375	4.71	ug/L		97
58) 1,2,3-trichloropropane	13.836	75	29724	4.60	ug/L		98
59) n-propylbenzene	14.503	91	211150	4.69	ug/L		97
60) 2-chlorotoluene	14.624	126	45484	4.74	ug/L		97
61) 4-chlorotoluene	14.698	91	136514	4.84	ug/L		99
62) 1,3,5-trimethylbenzene	14.786	105	151598	4.80	ug/L		97
63) tert-butylbenzene	15.096	119	120417	4.66	ug/L		99
64) 1,2,4-trimethylbenzene	15.204	105	147426	4.79	ug/L		98
65) sec-butylbenzene	15.318	105	196794	4.94	ug/L		100
66) 1,3-dichlorobenzene	15.419	146	92119	4.97	ug/L		99
67) 4-isopropyltoluene	15.493	119	150219	5.16	ug/L		98
68) 1,4-dichlorobenzene	15.487	146	91156	5.19	ug/L		98
69) 1,2-dichlorobenzene	15.857	146	81091	4.86	ug/L		97
71) n-butylbenzene	15.918	91	141911	4.93	ug/L		100
72) 1,2-dibromo-3-chloropr...	16.342	75	5145	5.81	ug/L	#	77
73) 1,3,5-Trichlorobenzene	17.164	180	66001	5.48	ug/L		100
74) 1,2,4-trichlorobenzene	17.736	180	50611	5.54	ug/L		97
75) hexachlorobutadiene	18.046	225	43315	6.90	ug/L		92
76) naphthalene	18.019	128	52790	4.55	ug/L		100
77) 1,2,3-trichlorobenzene	18.235	180	38237	5.59	ug/L		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130924\
Data File : T31347.D
Acq On : 24 Sep 2013 10:45 am
Operator : jaimem
Sample : bsd
Misc : MS29969,MST1092,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 24 15:45:33 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Sep 18 08:44:25 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130924\
Data File : T31354.D
Acq On : 24 Sep 2013 1:55 pm
Operator : jaimem
Sample : mc24310-1dup
Misc : MS30001,MST1092,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 24 15:49:17 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Sep 18 08:44:25 2013
Response via : Initial Calibration

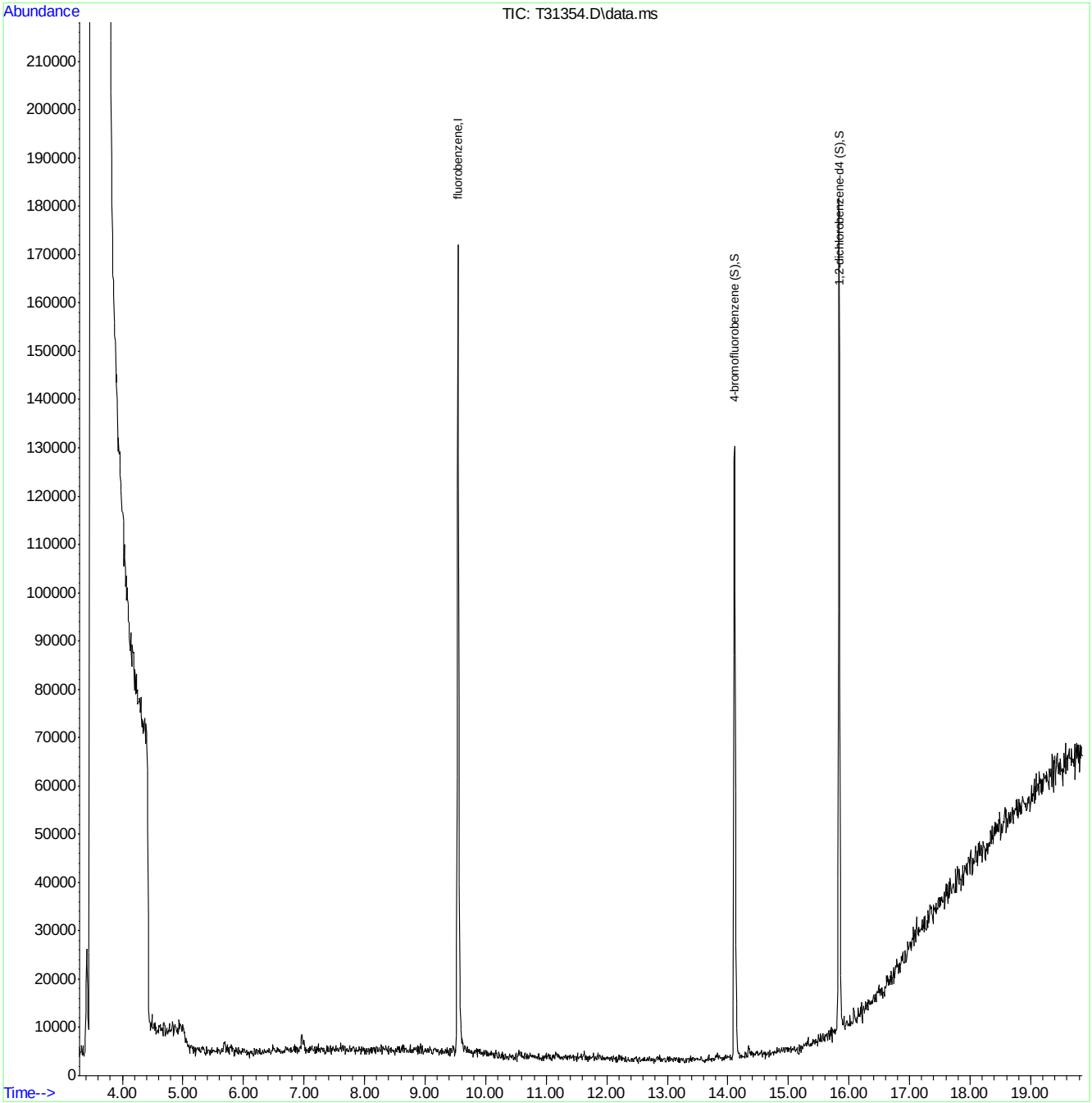
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) fluorobenzene	9.545	96	158548	5.00	ug/L	0.00
System Monitoring Compounds						
41) 4-bromofluorobenzene (S)	14.112	95	47757	4.33	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 86.60%			
70) 1,2-dichlorobenzene-d4...	15.837	152	50122	4.76	ug/L	0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 95.20%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130924\
Data File : T31354.D
Acq On : 24 Sep 2013 1:55 pm
Operator : jaimem
Sample : mc24310-1dup
Misc : MS30001,MST1092,,,,5,1
ALS Vial : 11 Sample Multiplier: 1

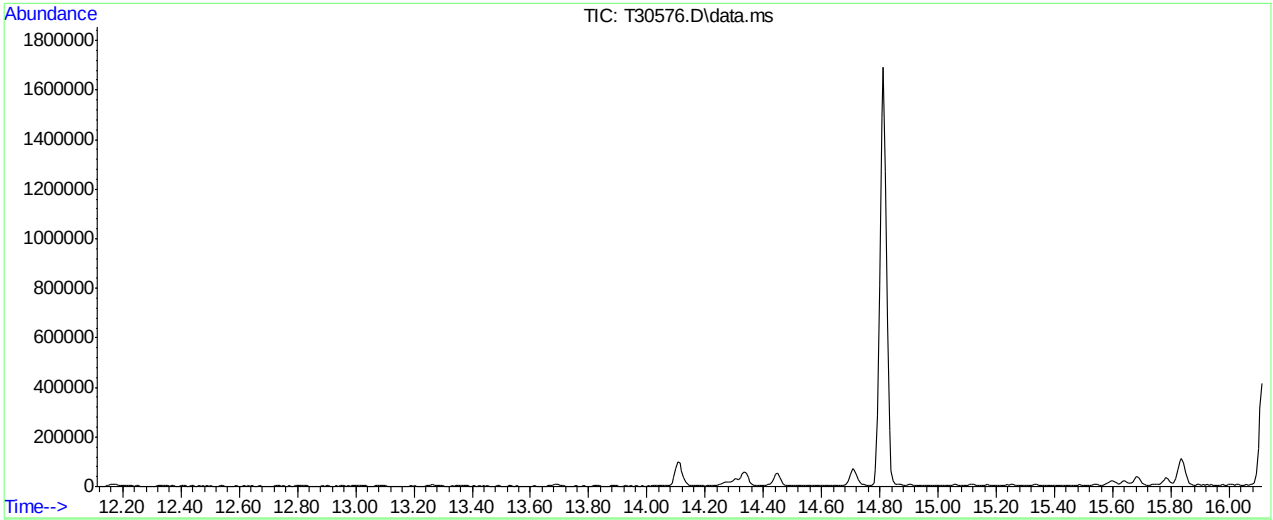
Quant Time: Sep 24 15:49:17 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Sep 18 08:44:25 2013
Response via : Initial Calibration



SW-846 Method 8260

Data File : C:\msdchem\1\DATA\130710\T30576.D Vial: 1
Acq On : 10 Jul 2013 8:57 am Operator: jaimem
Sample : bfb Inst : MST
Misc : MS29369,MST1065,,,,5,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\T130710D.M (RTE Integrator)
Title : Method 524



Spectrum Information: Scan 1607

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.1	3514	PASS
75	95	30	80	47.1	9164	PASS
95	95	100	100	100.0	19456	PASS
96	95	5	9	6.6	1292	PASS
173	174	0.00	2	1.6	260	PASS
174	95	50	150	81.6	15870	PASS
175	174	5	9	8.7	1382	PASS
176	174	95	101	96.5	15319	PASS
177	176	5	9	6.8	1039	PASS

T30576.D T130710D.M Wed Jul 10 13:42:10 2013

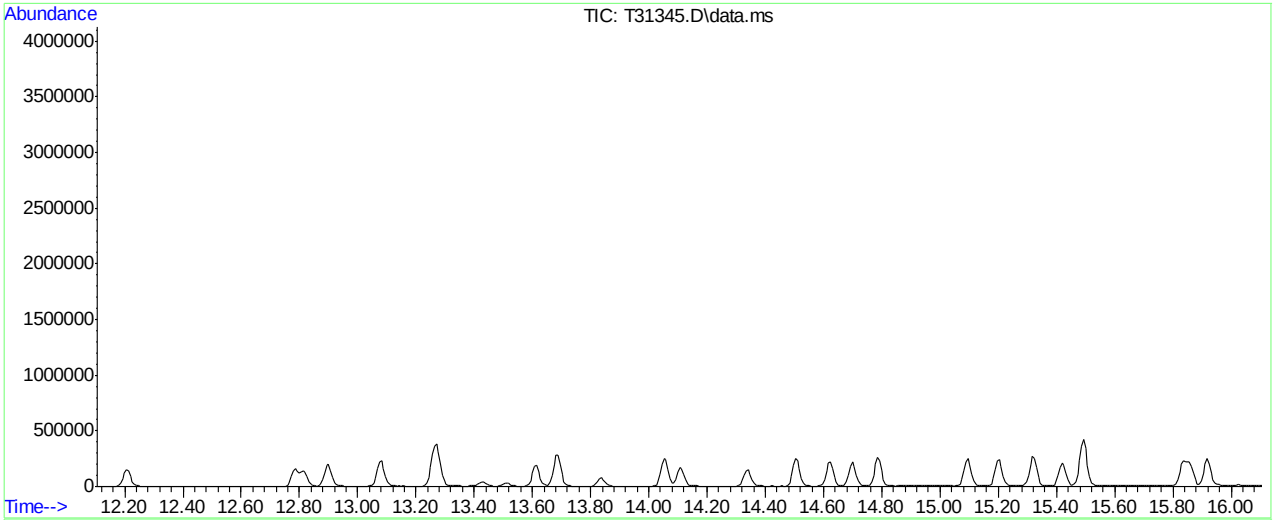
Scan 1607 (14.112 min): T30576.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	1051	61.10	1075	80.90	821	116.90	219
38.10	911	62.10	928	82.10	265	146.70	224
39.00	588	62.90	880	87.00	792	173.10	260
40.00	578	68.00	1472	88.10	1022	173.90	15870
44.00	975	69.00	1897	90.90	255	174.90	1382
44.90	201	73.10	1470	92.00	547	175.90	15319
47.10	288	74.00	2801	93.00	1236	176.90	1039
48.90	798	75.00	9164	94.00	1853	207.20	386
50.00	3514	76.10	1086	95.00	19456		
51.00	1259	78.90	727	96.10	1292		
56.90	540	80.00	207	103.80	209		

SW-846 Method 8260

Data File : C:\msdchem\1\DATA\130924\T31345.D Vial: 2
Acq On : 24 Sep 2013 9:50 am Operator: jaimem
Sample : bfb Inst : MST
Misc : MS29969,MST1092,,,,5,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\2\methods\T130710D.M (RTE Integrator)
Title : Method 524



Spectrum Information: Scan 1606

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	6914	PASS
75	95	30	80	45.5	16528	PASS
95	95	100	100	100.0	36328	PASS
96	95	5	9	7.3	2641	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	82.3	29904	PASS
175	174	5	9	8.8	2641	PASS
176	174	95	101	98.1	29336	PASS
177	176	5	9	7.7	2249	PASS

T31345.D T130710D.M Tue Sep 24 15:44:52 2013

Scan 1606 (14.105 min): T31345.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.10	1848	54.90	240	74.00	5594	94.10	3189
38.00	1714	56.10	468	75.00	16528	95.00	36328
39.10	682	57.00	797	76.00	1157	96.00	2641
40.10	847	59.90	236	76.80	282	103.90	234
44.10	1364	61.00	1520	78.90	954	105.10	634
45.00	331	62.00	1438	80.00	292	106.00	289
46.90	489	63.10	1309	81.00	968	115.90	368
47.90	262	68.10	2921	87.00	1229	117.00	292
49.00	1735	69.10	2654	87.90	1187	140.80	369
50.10	6914	70.00	246	92.00	995	143.00	436
51.10	2077	73.10	1605	93.00	1030	174.00	29904

Scan 1606 (14.105 min): T31345.D\data.ms
bfb

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.00	2641						
176.00	29336						
177.00	2249						
207.10	672						
266.90	398						
269.10	657						
281.10	264						

Manual Integrations APPROVED (compounds with "m" flag)
Amy Min Yang 07/10/13 16:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30577.D
Acq On : 10 Jul 2013 9:23 am
Operator : jaimem
Sample : ic1065-0.5
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 13:35:55 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:34:17 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	110814	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.106	95	36898	4.76	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 95.20%				
70) 1,2-dichlorobenzene-d4...	15.830	152	34748	4.69	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 93.80%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.886	85	2566	0.60	ug/L		69
3) chloromethane	4.129	50	4466	0.64	ug/L		99
4) vinyl chloride	4.365	62	6544m	0.88	ug/L		
5) bromomethane	4.870	96	3232	0.84	ug/L		98
6) Ethanol	5.032	45	5985	214.32	ug/L		76
7) chloroethane	5.025	64	1917	0.59	ug/L		100
9) ethyl ether	5.914	59	1628	0.51	ug/L	#	52
10) trichlorofluoromethane	5.665	101	4535	0.55	ug/L		91
11) 1,1-dichloroethene	6.258	96	4400	0.94	ug/L	#	42
12) methylene chloride	6.413	84	3502	0.62	ug/L	#	44
13) tertiary butyl alcohol	6.278	59	1597	6.78	ug/L		98
14) carbon disulfide	6.682	76	7843	0.55	ug/L		100
15) trans-1,2-dichloroethene	7.120	96	4515	0.82	ug/L	#	52
16) Methyl tert butyl ether	7.214	73	6440	0.62	ug/L		82
17) 1,1-dichloroethane	7.362	63	5815	0.62	ug/L		85
18) 2-butanone	7.787	43	7820	0.53	ug/L	#	97
19) di-isopropyl ether	7.794	45	9086	0.57	ug/L		95
20) tert-butyl ethyl ether	8.191	59	8647	0.62	ug/L		88
21) 2,2-dichloropropane	8.245	77	4602	0.64	ug/L		93
22) cis-1,2-dichloroethene	7.955	96	3985	0.68	ug/L	#	82
23) tetrahydrofuran	8.501	42	523	0.79	ug/L	#	49
24) bromochloromethane	8.130	128	1429	0.58	ug/L	#	31
25) chloroform	8.157	83	5741	0.62	ug/L		88
26) 1,1,1-trichloroethane	8.925	97	4506	0.57	ug/L	#	76
27) carbon tetrachloride	9.303	117	3395	0.53	ug/L		97
28) 1,1-dichloropropene	9.114	75	4285	0.64	ug/L		97
29) benzene	9.336	78	11398	0.58	ug/L		82
30) 1,2-dichloroethane	8.831	62	3791	0.61	ug/L		82
31) tert-amyl methyl ether	9.464	73	7558	0.66	ug/L	#	72
32) trichloroethene	9.969	95	3095	0.55	ug/L		93
33) 1,2-dichloropropane	9.929	63	3177	0.59	ug/L		93
34) dibromomethane	9.909	93	1503	0.54	ug/L		86
35) bromodichloromethane	10.023	83	3522	0.56	ug/L		89
37) cis-1,3-dichloropropene	10.657	75	4414	0.58	ug/L		90
38) 4-methyl-2-pentanone	10.758	43	707	0.27	ug/L	#	37
39) toluene	11.451	92	6680	0.57	ug/L		87
40) trans-1,3-dichloropropene	11.094	75	3194	0.54	ug/L		81
42) 1,1,2-Trichloroethane	11.263	97	1910	0.55	ug/L	#	63
43) tetrachloroethene	12.213	166	2921	0.54	ug/L		84
44) 1,3-dichloropropane	11.505	76	3322	0.54	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30577.D
Acq On : 10 Jul 2013 9:23 am
Operator : jaimem
Sample : ic1065-0.5
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 13:35:55 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:34:17 2013
Response via : Initial Calibration

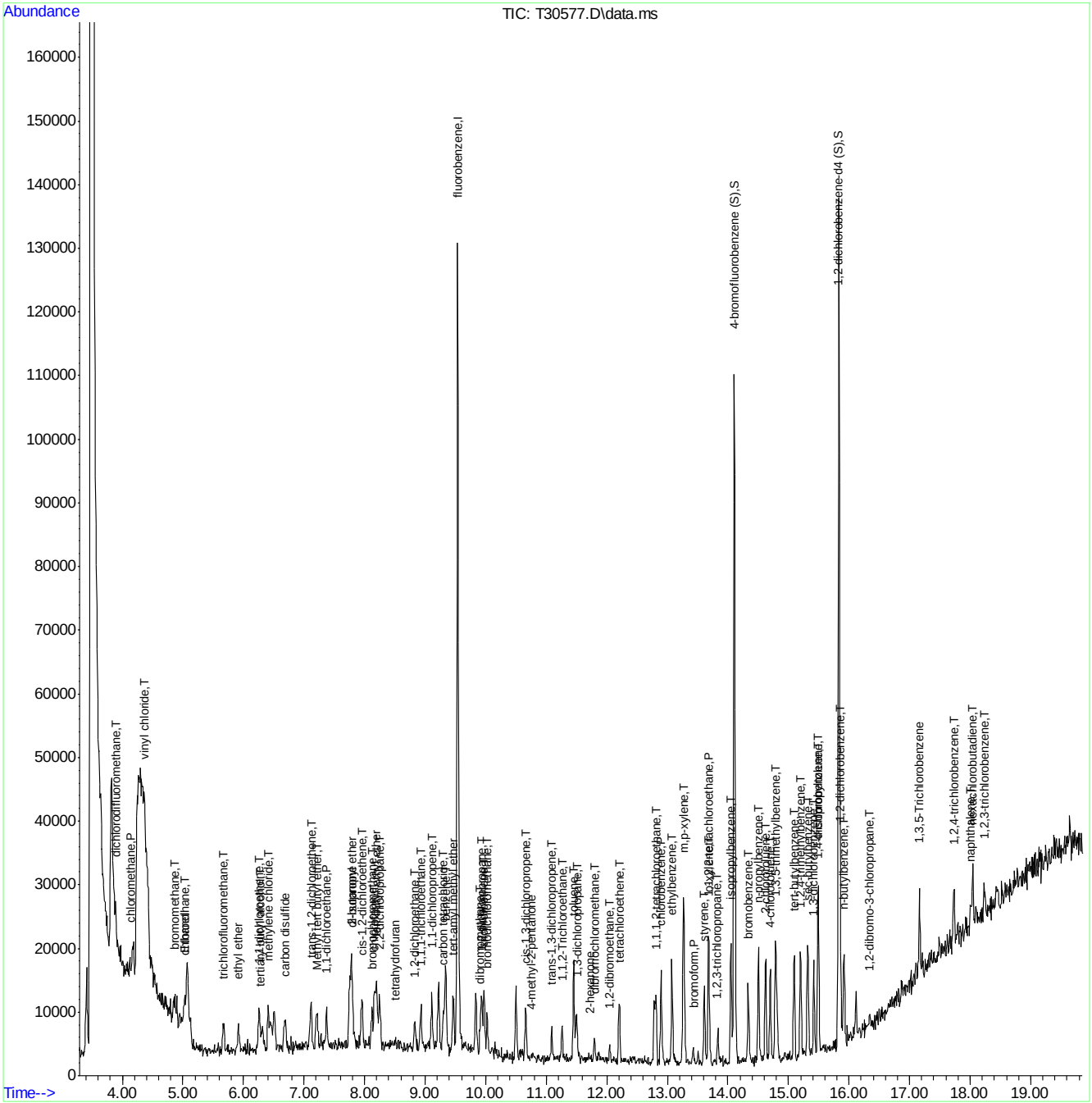
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 2-hexanone	11.721	43	261m	0.11	ug/L		
46) dibromochloromethane	11.795	129	1835	0.45	ug/L	#	54
47) 1,2-dibromoethane	12.051	107	1490	0.43	ug/L	#	71
48) chlorobenzene	12.900	112	8579	0.60	ug/L		92
49) 1,1,1,2-tetrachloroethane	12.812	131	2366	0.52	ug/L	#	68
50) ethylbenzene	13.075	91	12504	0.54	ug/L		91
51) m,p-xylene	13.270	106	9727	1.06	ug/L		92
52) o-xylene	13.681	106	5472	0.59	ug/L	#	71
53) styrene	13.607	104	7167	0.53	ug/L		93
54) bromoform	13.432	173	1029	0.45	ug/L		99
55) isopropylbenzene	14.052	105	13241	0.56	ug/L		99
56) bromobenzene	14.335	156	3453	0.60	ug/L		92
57) 1,1,2,2-tetrachloroethane	13.688	83	2010	0.51	ug/L		91
58) 1,2,3-trichloropropane	13.823	75	2174	0.54	ug/L		94
59) n-propylbenzene	14.503	91	15090	0.54	ug/L		89
60) 2-chlorotoluene	14.624	126	3286m	0.55	ug/L		
61) 4-chlorotoluene	14.698	91	9706	0.55	ug/L		99
62) 1,3,5-trimethylbenzene	14.786	105	10871	0.55	ug/L		98
63) tert-butylbenzene	15.096	119	8656	0.54	ug/L		81
64) 1,2,4-trimethylbenzene	15.197	105	10221	0.53	ug/L		97
65) sec-butylbenzene	15.318	105	12728	0.51	ug/L		86
66) 1,3-dichlorobenzene	15.419	146	6268	0.54	ug/L		93
67) 4-isopropyltoluene	15.493	119	8898	0.48	ug/L		92
68) 1,4-dichlorobenzene	15.486	146	5556	0.50	ug/L		91
69) 1,2-dichlorobenzene	15.857	146	5582	0.54	ug/L		89
71) n-butylbenzene	15.918	91	9179	0.51	ug/L		85
72) 1,2-dibromo-3-chloropr...	16.335	75	297m	0.54	ug/L		
73) 1,3,5-Trichlorobenzene	17.164	180	3779	0.50	ug/L	#	75
74) 1,2,4-trichlorobenzene	17.736	180	3223	0.57	ug/L		97
75) hexachlorobutadiene	18.040	225	2344	0.61	ug/L		82
76) naphthalene	18.013	128	4194	0.59	ug/L		100
77) 1,2,3-trichlorobenzene	18.235	180	2381	0.56	ug/L		84

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30577.D
Acq On : 10 Jul 2013 9:23 am
Operator : jaimem
Sample : ic1065-0.5
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 10 13:35:55 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:34:17 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Amy Min Yang
07/10/13 16:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30578.D
Acq On : 10 Jul 2013 9:50 am
Operator : jaimem
Sample : ic1065-1
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 10 13:33:52 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:32:50 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	110938	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.106	95	34781	4.41	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 88.20%				
70) 1,2-dichlorobenzene-d4...	15.830	152	34537	4.60	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 92.00%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.893	85	4548	1.07	ug/L		97
3) chloromethane	4.129	50	8544	1.28	ug/L		83
4) vinyl chloride	4.378	62	7720	1.04	ug/L		99
5) bromomethane	4.863	96	4675	1.25	ug/L		81
6) Ethanol	5.025	45	2021	69.10	ug/L		85
7) chloroethane	5.032	64	3193	0.98	ug/L		88
9) ethyl ether	5.921	59	3482	1.10	ug/L	#	53
10) trichlorofluoromethane	5.672	101	8081	0.98	ug/L		96
11) 1,1-dichloroethene	6.264	96	5785	1.28	ug/L	#	60
12) methylene chloride	6.406	84	6866	1.25	ug/L	#	60
13) tertiary butyl alcohol	6.264	59	2351	9.97	ug/L		98
14) carbon disulfide	6.689	76	14637	1.04	ug/L		100
15) trans-1,2-dichloroethene	7.120	96	7274	1.40	ug/L	#	42
16) Methyl tert butyl ether	7.214	73	11328	1.10	ug/L		81
17) 1,1-dichloroethane	7.369	63	10210	1.10	ug/L		97
18) 2-butanone	7.787	43	14964	1.02	ug/L	#	95
19) di-isopropyl ether	7.787	45	16701	1.06	ug/L		93
20) tert-butyl ethyl ether	8.198	59	14346	1.04	ug/L		82
21) 2,2-dichloropropane	8.245	77	8005	1.13	ug/L		94
22) cis-1,2-dichloroethene	7.955	96	7043	1.24	ug/L	#	58
23) tetrahydrofuran	8.508	42	586m	0.87	ug/L		
24) bromochloromethane	8.117	128	2408	0.98	ug/L	#	54
25) chloroform	8.164	83	10017	1.08	ug/L		90
26) 1,1,1-trichloroethane	8.932	97	8072	1.03	ug/L	#	86
27) carbon tetrachloride	9.309	117	6471	1.01	ug/L		100
28) 1,1-dichloropropene	9.107	75	6887	1.04	ug/L		90
29) benzene	9.343	78	20850	1.06	ug/L		91
30) 1,2-dichloroethane	8.824	62	6888	1.12	ug/L		82
31) tert-amyl methyl ether	9.464	73	13432m	1.20	ug/L		
32) trichloroethene	9.976	95	6235	1.14	ug/L		94
33) 1,2-dichloropropane	9.936	63	5649	1.06	ug/L		93
34) dibromomethane	9.909	93	2863	1.04	ug/L	#	82
35) bromodichloromethane	10.030	83	6370	1.02	ug/L		87
37) cis-1,3-dichloropropene	10.663	75	7627	0.99	ug/L		92
38) 4-methyl-2-pentanone	10.771	43	2448	0.91	ug/L	#	37
39) toluene	11.458	92	12248	1.05	ug/L		94
40) trans-1,3-dichloropropene	11.094	75	6307	1.08	ug/L		89
42) 1,1,2-Trichloroethane	11.256	97	3780	1.09	ug/L	#	81
43) tetrachloroethene	12.206	166	5758	1.06	ug/L		90
44) 1,3-dichloropropane	11.499	76	5950	0.96	ug/L		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30578.D
Acq On : 10 Jul 2013 9:50 am
Operator : jaimem
Sample : ic1065-1
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 10 13:33:52 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:32:50 2013
Response via : Initial Calibration

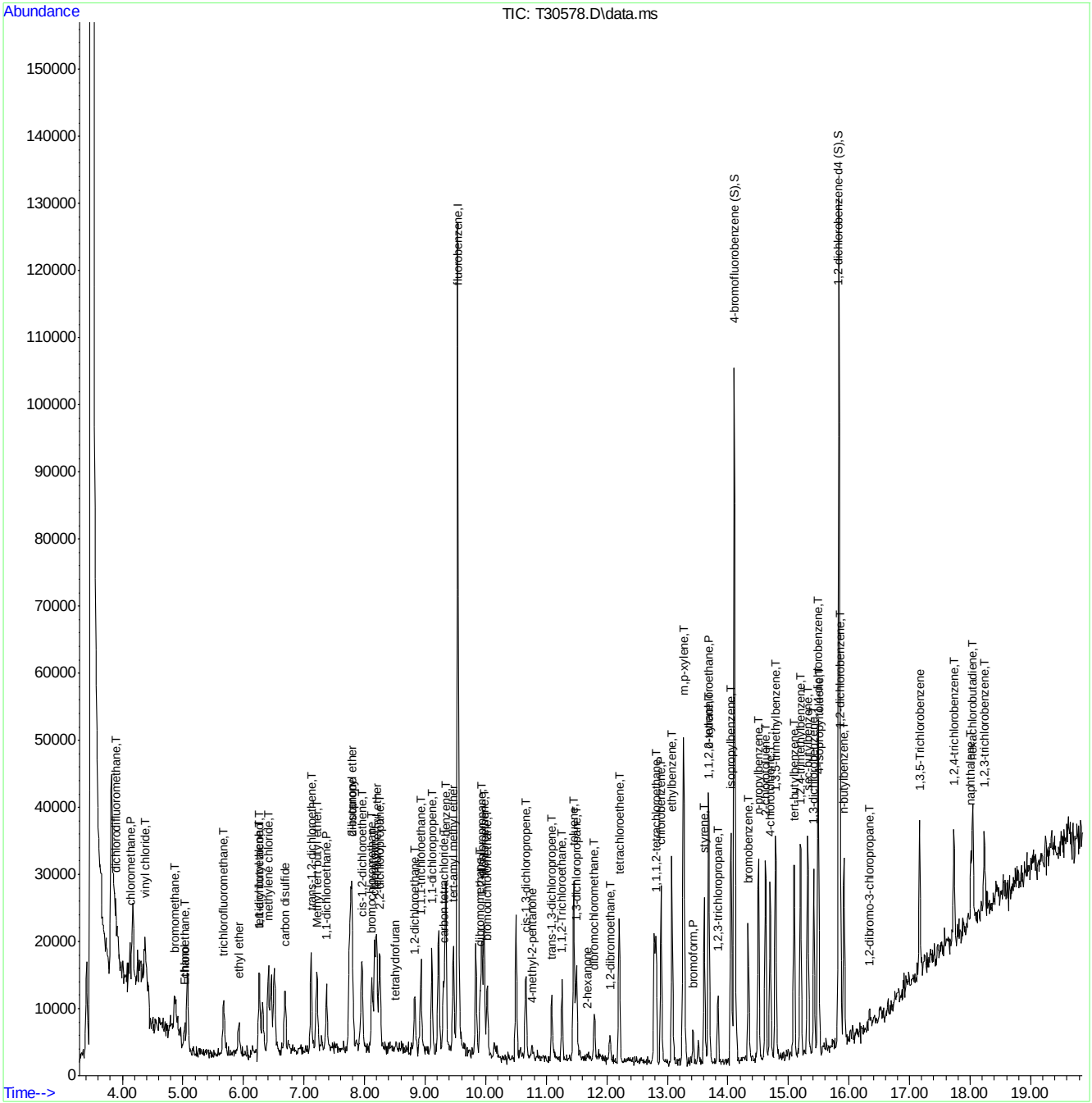
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
45) 2-hexanone	11.674	43	1403m	0.57 ug/L	
46) dibromochloromethane	11.788	129	4178	1.03 ug/L	94
47) 1,2-dibromoethane	12.058	107	3875	1.14 ug/L	80
48) chlorobenzene	12.900	112	14225	0.99 ug/L	97
49) 1,1,1,2-tetrachloroethane	12.812	131	4642	1.03 ug/L	97
50) ethylbenzene	13.075	91	24562	1.06 ug/L	98
51) m,p-xylene	13.270	106	17846	1.92 ug/L	89
52) o-xylene	13.681	106	9578	1.04 ug/L	91
53) styrene	13.607	104	13011	0.96 ug/L	92
54) bromoform	13.425	173	2032	0.86 ug/L	86
55) isopropylbenzene	14.052	105	24472	1.03 ug/L	97
56) bromobenzene	14.341	156	5732	1.00 ug/L	89
57) 1,1,2,2-tetrachloroethane	13.688	83	3879	0.99 ug/L	78
58) 1,2,3-trichloropropane	13.836	75	3980	0.98 ug/L	99
59) n-propylbenzene	14.503	91	27410	0.97 ug/L	98
60) 2-chlorotoluene	14.617	126	6023	1.01 ug/L	99
61) 4-chlorotoluene	14.698	91	18051	1.03 ug/L	92
62) 1,3,5-trimethylbenzene	14.786	105	19011	0.96 ug/L	94
63) tert-butylbenzene	15.089	119	14965	0.92 ug/L	95
64) 1,2,4-trimethylbenzene	15.204	105	18225	0.94 ug/L	94
65) sec-butylbenzene	15.318	105	24042	0.95 ug/L	91
66) 1,3-dichlorobenzene	15.419	146	11541	1.00 ug/L	88
67) 4-isopropyltoluene	15.500	119	16408	0.88 ug/L	93
68) 1,4-dichlorobenzene	15.486	146	10609	0.95 ug/L	95
69) 1,2-dichlorobenzene	15.857	146	10999	1.06 ug/L	89
71) n-butylbenzene	15.918	91	15655	0.85 ug/L	100
72) 1,2-dibromo-3-chloropr...	16.335	75	600	1.10 ug/L #	76
73) 1,3,5-Trichlorobenzene	17.171	180	7870	1.04 ug/L	97
74) 1,2,4-trichlorobenzene	17.730	180	5608	0.99 ug/L	95
75) hexachlorobutadiene	18.040	225	4172	1.10 ug/L	95
76) naphthalene	18.013	128	6289	0.86 ug/L	100
77) 1,2,3-trichlorobenzene	18.235	180	4400	1.04 ug/L	84

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30578.D
Acq On : 10 Jul 2013 9:50 am
Operator : jaimem
Sample : ic1065-1
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 10 13:33:52 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:32:50 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30579.D
Acq On : 10 Jul 2013 10:17 am
Operator : jaimem
Sample : ic1065-2
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 10 13:31:50 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:31:41 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	113948	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.105	95	38345	4.68	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 93.60%				
70) 1,2-dichlorobenzene-d4...	15.830	152	35942	4.60	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 92.00%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.893	85	10268	2.45	ug/L		93
3) chloromethane	4.129	50	16662	2.53	ug/L		95
4) vinyl chloride	4.378	62	17041	2.30	ug/L		92
5) bromomethane	4.863	96	8624	2.30	ug/L		96
6) Ethanol	5.025	45	5713	188.32	ug/L		99
7) chloroethane	5.018	64	7564	2.32	ug/L		92
9) ethyl ether	5.921	59	6321	1.94	ug/L	#	68
10) trichlorofluoromethane	5.678	101	18019	2.17	ug/L		99
11) 1,1-dichloroethene	6.258	96	10644	2.35	ug/L	#	62
12) methylene chloride	6.413	84	12340	2.24	ug/L	#	52
13) tertiary butyl alcohol	6.264	59	4713	19.35	ug/L		98
14) carbon disulfide	6.682	76	30652	2.14	ug/L		100
15) trans-1,2-dichloroethene	7.120	96	12090	2.32	ug/L	#	70
16) Methyl tert butyl ether	7.207	73	21842	2.08	ug/L		79
17) 1,1-dichloroethane	7.376	63	19828	2.10	ug/L		93
18) 2-butanone	7.787	43	30446	2.03	ug/L	#	100
19) di-isopropyl ether	7.787	45	32055	1.98	ug/L		87
20) tert-butyl ethyl ether	8.198	59	28086	1.97	ug/L		85
21) 2,2-dichloropropane	8.252	77	15894	2.22	ug/L		95
22) cis-1,2-dichloroethene	7.955	96	12837	2.25	ug/L	#	69
23) tetrahydrofuran	8.501	42	955	1.31	ug/L	#	49
24) bromochloromethane	8.117	128	5168	2.05	ug/L	#	56
25) chloroform	8.164	83	19908	2.12	ug/L		99
26) 1,1,1-trichloroethane	8.925	97	17427	2.20	ug/L		84
27) carbon tetrachloride	9.296	117	13896	2.14	ug/L		96
28) 1,1-dichloropropene	9.107	75	14216	2.11	ug/L		90
29) benzene	9.336	78	41554	2.08	ug/L		99
30) 1,2-dichloroethane	8.831	62	12700	2.01	ug/L		82
31) tert-amyl methyl ether	9.464	73	25380	2.25	ug/L	#	76
32) trichloroethene	9.969	95	11784	2.11	ug/L		98
33) 1,2-dichloropropane	9.936	63	11544	2.12	ug/L		94
34) dibromomethane	9.909	93	5769	2.05	ug/L		89
35) bromodichloromethane	10.023	83	12009	1.85	ug/L		96
37) cis-1,3-dichloropropene	10.663	75	15797	2.01	ug/L		100
38) 4-methyl-2-pentanone	10.764	43	5278	1.88	ug/L		79
39) toluene	11.451	92	24884	2.08	ug/L		96
40) trans-1,3-dichloropropene	11.088	75	11114	1.84	ug/L		88
42) 1,1,2-Trichloroethane	11.256	97	7159	2.02	ug/L		91
43) tetrachloroethene	12.206	166	12142	2.23	ug/L		99
44) 1,3-dichloropropane	11.505	76	12734	2.00	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30579.D
Acq On : 10 Jul 2013 10:17 am
Operator : jaimem
Sample : ic1065-2
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 10 13:31:50 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:31:41 2013
Response via : Initial Calibration

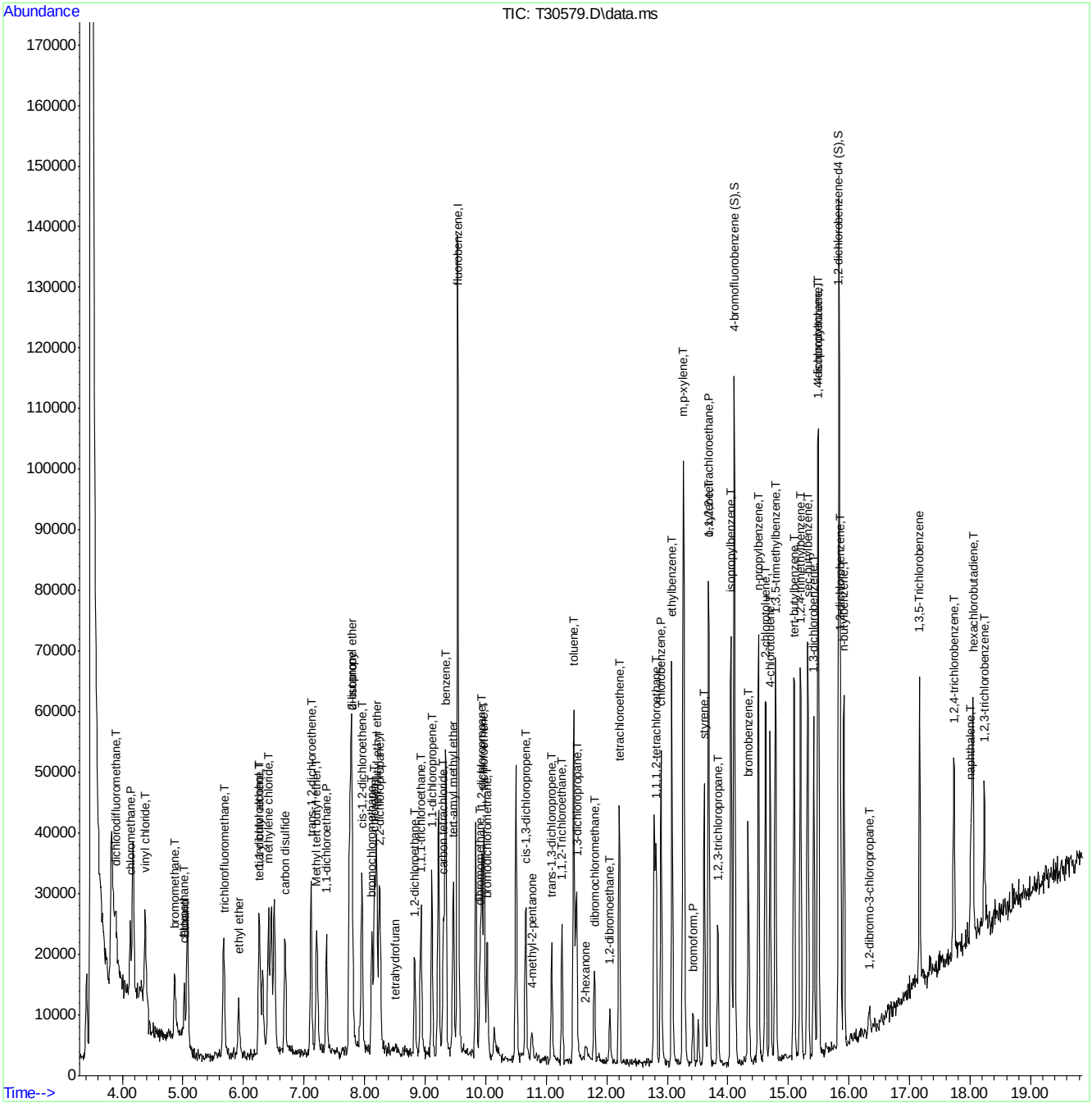
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) 2-hexanone	11.647	43	4187	1.60	ug/L		74
46) dibromochloromethane	11.795	129	7509	1.76	ug/L		93
47) 1,2-dibromoethane	12.051	107	6622	1.88	ug/L		90
48) chlorobenzene	12.893	112	30606	2.09	ug/L		98
49) 1,1,1,2-tetrachloroethane	12.812	131	8893	1.91	ug/L		92
50) ethylbenzene	13.075	91	49346	2.09	ug/L		95
51) m,p-xylene	13.263	106	37912	3.98	ug/L		93
52) o-xylene	13.681	106	17898	1.86	ug/L	#	79
53) styrene	13.614	104	25845	1.84	ug/L		93
54) bromoform	13.425	173	4320	1.75	ug/L		89
55) isopropylbenzene	14.052	105	48179	1.98	ug/L		97
56) bromobenzene	14.335	156	12026	2.04	ug/L		92
57) 1,1,2,2-tetrachloroethane	13.681	83	7870	1.94	ug/L		96
58) 1,2,3-trichloropropane	13.829	75	7783	1.85	ug/L		93
59) n-propylbenzene	14.503	91	57326	1.98	ug/L		98
60) 2-chlorotoluene	14.624	126	12296	2.01	ug/L		97
61) 4-chlorotoluene	14.698	91	34273	1.90	ug/L		98
62) 1,3,5-trimethylbenzene	14.786	105	36599	1.77	ug/L		89
63) tert-butylbenzene	15.096	119	33951	2.03	ug/L		94
64) 1,2,4-trimethylbenzene	15.197	105	36037	1.77	ug/L		99
65) sec-butylbenzene	15.318	105	49477	1.89	ug/L		94
66) 1,3-dichlorobenzene	15.419	146	22728	1.90	ug/L		96
67) 4-isopropyltoluene	15.493	119	35592	1.82	ug/L		93
68) 1,4-dichlorobenzene	15.486	146	21806	1.89	ug/L		98
69) 1,2-dichlorobenzene	15.857	146	20063	1.87	ug/L		91
71) n-butylbenzene	15.918	91	34773	1.80	ug/L		95
72) 1,2-dibromo-3-chloropr...	16.335	75	1032	1.81	ug/L	#	80
73) 1,3,5-Trichlorobenzene	17.164	180	14338	1.82	ug/L		93
74) 1,2,4-trichlorobenzene	17.736	180	10407	1.75	ug/L		86
75) hexachlorobutadiene	18.046	225	8051	2.08	ug/L		97
76) naphthalene	18.013	128	14138	1.86	ug/L		100
77) 1,2,3-trichlorobenzene	18.228	180	8524	1.96	ug/L		85

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30579.D
Acq On : 10 Jul 2013 10:17 am
Operator : jaimem
Sample : ic1065-2
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 10 13:31:50 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:31:41 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Amy Min Yang
07/10/13 16:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30580.D
Acq On : 10 Jul 2013 10:43 am
Operator : jaimem
Sample : icc1065-5
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 10 13:31:33 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:30:12 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	111431	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.105	95	37392	4.59	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 91.80%				
70) 1,2-dichlorobenzene-d4...	15.837	152	35923	4.63	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 92.60%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.900	85	23698	6.00	ug/L		100
3) chloromethane	4.136	50	36644	5.90	ug/L		99
4) vinyl chloride	4.378	62	38878	5.45	ug/L		94
5) bromomethane	4.870	96	20195	5.65	ug/L		91
6) Ethanol	5.031	45	14792	498.25	ug/L		97
7) chloroethane	5.025	64	18386	6.00	ug/L		100
8) acetone	5.820	58	1358m	3.07	ug/L		
9) ethyl ether	5.921	59	16618	5.26	ug/L	#	69
10) trichlorofluoromethane	5.671	101	43727	5.48	ug/L		90
11) 1,1-dichloroethene	6.264	96	24202	5.61	ug/L	#	61
12) methylene chloride	6.412	84	29118	5.51	ug/L	#	62
13) tertiary butyl alcohol	6.257	59	11828	49.58	ug/L		98
14) carbon disulfide	6.689	76	74446	5.38	ug/L		100
15) trans-1,2-dichloroethene	7.120	96	28387	5.74	ug/L	#	61
16) Methyl tert butyl ether	7.214	73	53685	5.30	ug/L		81
17) 1,1-dichloroethane	7.369	63	50204	5.55	ug/L		91
18) 2-butanone	7.787	43	75901	5.21	ug/L	#	95
19) di-isopropyl ether	7.793	45	81121	5.16	ug/L		89
20) tert-butyl ethyl ether	8.198	59	70760	5.09	ug/L		86
21) 2,2-dichloropropane	8.245	77	37713	5.51	ug/L		98
22) cis-1,2-dichloroethene	7.955	96	31472	5.83	ug/L	#	71
23) tetrahydrofuran	8.501	42	3407	4.71	ug/L		78
24) bromochloromethane	8.123	128	12318	4.99	ug/L	#	64
25) chloroform	8.164	83	49132	5.45	ug/L		98
26) 1,1,1-trichloroethane	8.932	97	40518	5.28	ug/L		88
27) carbon tetrachloride	9.302	117	33152	5.29	ug/L		96
28) 1,1-dichloropropene	9.114	75	34457	5.30	ug/L		94
29) benzene	9.336	78	105148	5.47	ug/L		100
30) 1,2-dichloroethane	8.824	62	32672	5.37	ug/L		89
31) tert-amyl methyl ether	9.471	73	59022	5.45	ug/L	#	78
32) trichloroethene	9.969	95	29943	5.63	ug/L		95
33) 1,2-dichloropropane	9.936	63	28300	5.41	ug/L		94
34) dibromomethane	9.909	93	14325	5.25	ug/L		97
35) bromodichloromethane	10.023	83	32352	5.10	ug/L		100
36) 1,4-dioxane	10.138	88	185m	9.74	ug/L		
37) cis-1,3-dichloropropene	10.656	75	38190	4.95	ug/L		96
38) 4-methyl-2-pentanone	10.757	43	12911	4.64	ug/L		95
39) toluene	11.451	92	60510	5.23	ug/L		93
40) trans-1,3-dichloropropene	11.087	75	30021	5.09	ug/L		97
42) 1,1,2-Trichloroethane	11.256	97	18388	5.37	ug/L		89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30580.D
Acq On : 10 Jul 2013 10:43 am
Operator : jaimem
Sample : icc1065-5
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 10 13:31:33 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:30:12 2013
Response via : Initial Calibration

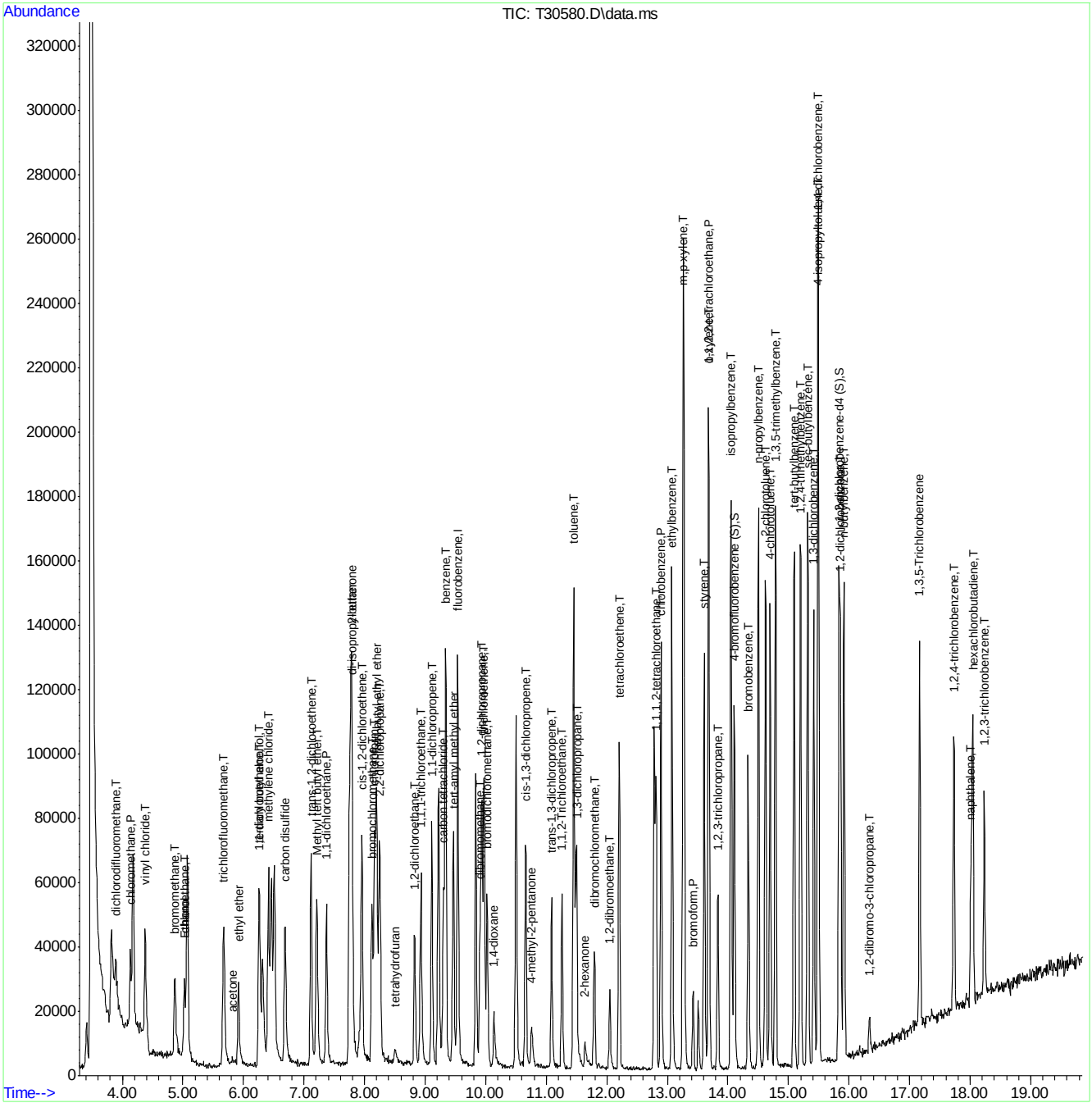
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) tetrachloroethene	12.206	166	28670	5.48	ug/L	94
44) 1,3-dichloropropane	11.505	76	33066	5.40	ug/L	92
45) 2-hexanone	11.640	43	11793m	4.53	ug/L	
46) dibromochloromethane	11.795	129	20686	4.95	ug/L	100
47) 1,2-dibromoethane	12.051	107	17601	5.12	ug/L	91
48) chlorobenzene	12.900	112	74982	5.29	ug/L	93
49) 1,1,1,2-tetrachloroethane	12.812	131	23107	5.08	ug/L	93
50) ethylbenzene	13.081	91	118693	5.18	ug/L	100
51) m,p-xylene	13.263	106	95138	10.26	ug/L	96
52) o-xylene	13.681	106	47370	5.05	ug/L	100
53) styrene	13.607	104	68708	5.00	ug/L	98
54) bromoform	13.425	173	11222	4.57	ug/L	90
55) isopropylbenzene	14.051	105	118140	4.95	ug/L	99
56) bromobenzene	14.341	156	29537	5.17	ug/L	93
57) 1,1,2,2-tetrachloroethane	13.681	83	19586	4.94	ug/L	92
58) 1,2,3-trichloropropane	13.836	75	19645	4.72	ug/L	93
59) n-propylbenzene	14.503	91	142107	5.01	ug/L	99
60) 2-chlorotoluene	14.617	126	29493	4.90	ug/L	97
61) 4-chlorotoluene	14.698	91	89055	5.05	ug/L	92
62) 1,3,5-trimethylbenzene	14.786	105	98591	4.85	ug/L	98
63) tert-butylbenzene	15.096	119	80663	4.91	ug/L	95
64) 1,2,4-trimethylbenzene	15.203	105	95240	4.74	ug/L	100
65) sec-butylbenzene	15.318	105	123783	4.80	ug/L	97
66) 1,3-dichlorobenzene	15.419	146	57209	4.86	ug/L	95
67) 4-isopropyltoluene	15.493	119	87638	4.49	ug/L	97
68) 1,4-dichlorobenzene	15.486	146	54950	4.83	ug/L	95
69) 1,2-dichlorobenzene	15.857	146	52570	5.01	ug/L	96
71) n-butylbenzene	15.917	91	86460	4.48	ug/L	98
72) 1,2-dibromo-3-chloropr...	16.335	75	3079	5.68	ug/L	80
73) 1,3,5-Trichlorobenzene	17.164	180	38060	4.94	ug/L	99
74) 1,2,4-trichlorobenzene	17.730	180	28214	4.82	ug/L	95
75) hexachlorobutadiene	18.046	225	17737	4.61	ug/L	84
76) naphthalene	18.012	128	34776	4.62	ug/L	100
77) 1,2,3-trichlorobenzene	18.235	180	20281	4.71	ug/L	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30580.D
Acq On : 10 Jul 2013 10:43 am
Operator : jaimem
Sample : icc1065-5
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 10 13:31:33 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:30:12 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Amy Min Yang
07/10/13 16:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30581.D
Acq On : 10 Jul 2013 11:11 am
Operator : jaimem
Sample : ic1065-10
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 10 13:29:40 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:28:44 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	111025	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.106	95	40602	5.00	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 100.00%				
70) 1,2-dichlorobenzene-d4...	15.830	152	36931	4.71	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 94.20%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.893	85	40583	10.43	ug/L		97
3) chloromethane	4.129	50	65449	10.78	ug/L		100
4) vinyl chloride	4.378	62	71639	10.11	ug/L		96
5) bromomethane	4.870	96	37651	10.78	ug/L		89
6) Ethanol	5.025	45	29303	987.57	ug/L		99
7) chloroethane	5.025	64	32038	10.68	ug/L		97
8) acetone	5.806	58	4382m	9.91	ug/L		
9) ethyl ether	5.921	59	31627	10.07	ug/L		71
10) trichlorofluoromethane	5.672	101	81353	10.31	ug/L		96
11) 1,1-dichloroethene	6.264	96	43058	10.01	ug/L	#	60
12) methylene chloride	6.413	84	52706	10.02	ug/L	#	63
13) tertiary butyl alcohol	6.258	59	26434	115.51	ug/L		98
14) carbon disulfide	6.689	76	132765	9.52	ug/L		100
15) trans-1,2-dichloroethene	7.120	96	47700	9.58	ug/L	#	65
16) Methyl tert butyl ether	7.214	73	101228	10.03	ug/L		75
17) 1,1-dichloroethane	7.369	63	89177	9.87	ug/L		96
18) 2-butanone	7.787	43	140855	9.62	ug/L	#	91
19) di-isopropyl ether	7.794	45	152961	9.69	ug/L		90
20) tert-butyl ethyl ether	8.198	59	136462	9.80	ug/L		85
21) 2,2-dichloropropane	8.245	77	66079	9.58	ug/L		98
22) cis-1,2-dichloroethene	7.955	96	52489	9.68	ug/L	#	78
23) tetrahydrofuran	8.508	42	7002	9.62	ug/L		83
24) bromochloromethane	8.124	128	24398	9.90	ug/L	#	63
25) chloroform	8.164	83	88646	9.82	ug/L		99
26) 1,1,1-trichloroethane	8.932	97	74294	9.63	ug/L		90
27) carbon tetrachloride	9.303	117	59409	9.35	ug/L		98
28) 1,1-dichloropropene	9.107	75	62199	9.47	ug/L		96
29) benzene	9.336	78	186373	9.65	ug/L		96
30) 1,2-dichloroethane	8.831	62	61365	10.17	ug/L		96
31) tert-amyl methyl ether	9.471	73	108769	10.10	ug/L	#	79
32) trichloroethene	9.976	95	51782	9.70	ug/L		92
33) 1,2-dichloropropane	9.936	63	50459	9.59	ug/L		96
34) dibromomethane	9.909	93	26619	9.72	ug/L		94
35) bromodichloromethane	10.030	83	60841	9.52	ug/L		96
36) 1,4-dioxane	10.131	88	546m	25.27	ug/L		
37) cis-1,3-dichloropropene	10.663	75	73450	9.41	ug/L		98
38) 4-methyl-2-pentanone	10.758	43	26527	9.42	ug/L		98
39) toluene	11.451	92	110284	9.42	ug/L		97
40) trans-1,3-dichloropropene	11.088	75	56652	9.52	ug/L		95
42) 1,1,2-Trichloroethane	11.256	97	34375	10.10	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30581.D
Acq On : 10 Jul 2013 11:11 am
Operator : jaimem
Sample : ic1065-10
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 10 13:29:40 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:28:44 2013
Response via : Initial Calibration

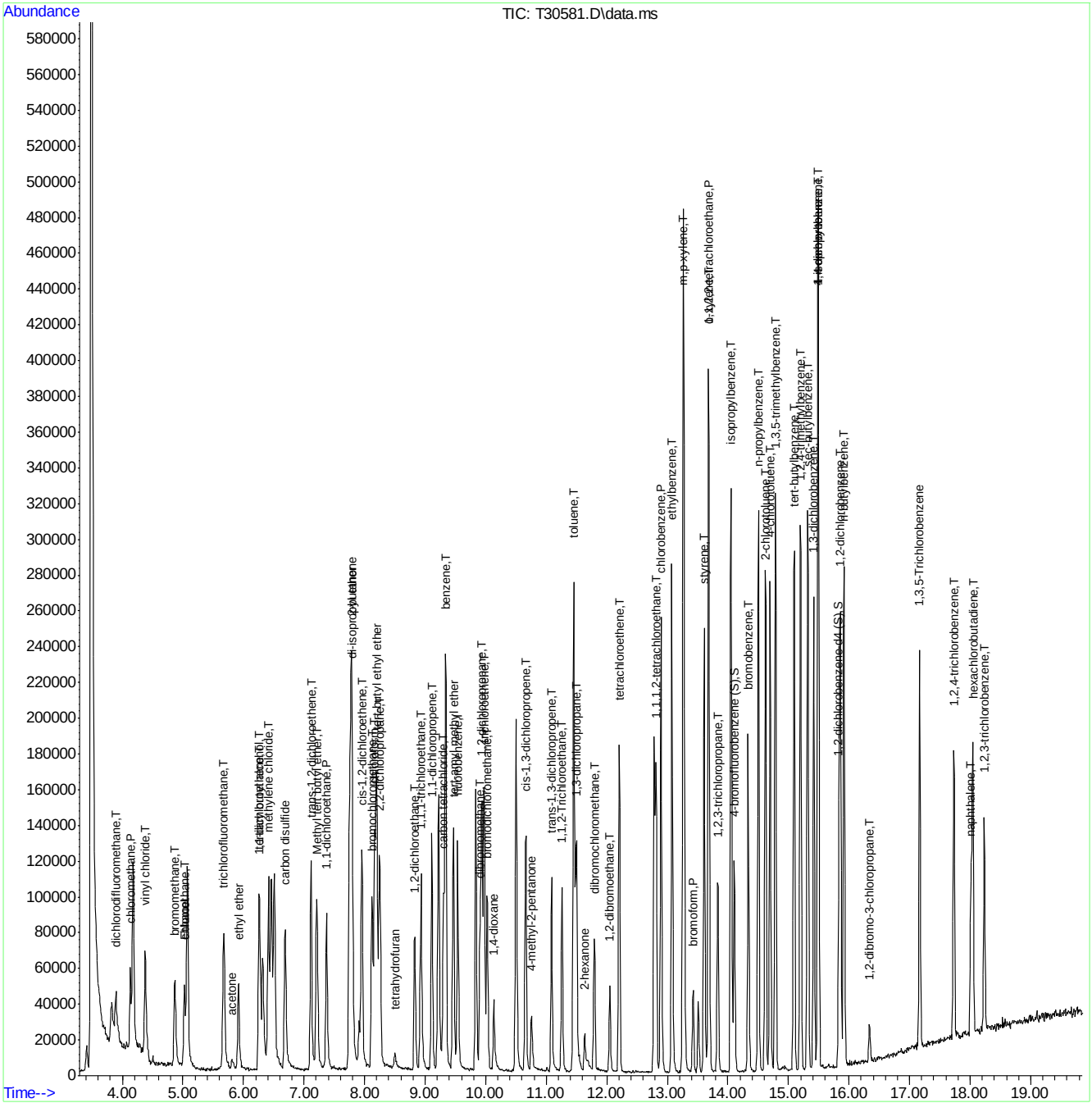
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) tetrachloroethene	12.206	166	50248	9.52	ug/L	97
44) 1,3-dichloropropane	11.499	76	61224	10.04	ug/L	100
45) 2-hexanone	11.640	43	23761	8.90	ug/L	91
46) dibromochloromethane	11.795	129	38258	8.94	ug/L	96
47) 1,2-dibromoethane	12.051	107	34282	10.02	ug/L	98
48) chlorobenzene	12.893	112	138833	9.77	ug/L	97
49) 1,1,1,2-tetrachloroethane	12.812	131	43311	9.41	ug/L	92
50) ethylbenzene	13.075	91	217032	9.36	ug/L	99
51) m,p-xylene	13.264	106	175250	18.65	ug/L	95
52) o-xylene	13.681	106	89624	9.46	ug/L	95
53) styrene	13.607	104	123539	8.74	ug/L	99
54) bromoform	13.425	173	21990	8.70	ug/L	94
55) isopropylbenzene	14.052	105	219199	8.99	ug/L	97
56) bromobenzene	14.335	156	53414	9.19	ug/L	96
57) 1,1,2,2-tetrachloroethane	13.681	83	38983	9.82	ug/L	100
58) 1,2,3-trichloropropane	13.829	75	40013	9.54	ug/L	98
59) n-propylbenzene	14.503	91	255523	8.77	ug/L	98
60) 2-chlorotoluene	14.624	126	54951	8.93	ug/L	94
61) 4-chlorotoluene	14.698	91	164488	9.16	ug/L	99
62) 1,3,5-trimethylbenzene	14.786	105	181627	8.67	ug/L	97
63) tert-butylbenzene	15.096	119	148774	8.81	ug/L	98
64) 1,2,4-trimethylbenzene	15.197	105	178970	8.62	ug/L	100
65) sec-butylbenzene	15.318	105	223803	8.36	ug/L	100
66) 1,3-dichlorobenzene	15.419	146	107666	8.94	ug/L	96
67) 4-isopropyltoluene	15.493	119	164600	8.06	ug/L	97
68) 1,4-dichlorobenzene	15.487	146	101800	8.69	ug/L	99
69) 1,2-dichlorobenzene	15.857	146	97294	9.10	ug/L	95
71) n-butylbenzene	15.918	91	159457	7.84	ug/L	100
72) 1,2-dibromo-3-chloropr...	16.335	75	5474	10.19	ug/L	89
73) 1,3,5-Trichlorobenzene	17.164	180	67801	8.50	ug/L	98
74) 1,2,4-trichlorobenzene	17.730	180	52441	8.70	ug/L	98
75) hexachlorobutadiene	18.046	225	34103	8.59	ug/L	97
76) naphthalene	18.013	128	67978	8.78	ug/L	100
77) 1,2,3-trichlorobenzene	18.235	180	37974	8.52	ug/L	94

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30581.D
Acq On : 10 Jul 2013 11:11 am
Operator : jaimem
Sample : ic1065-10
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 10 13:29:40 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:28:44 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Amy Min Yang
07/10/13 16:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30582.D
Acq On : 10 Jul 2013 11:38 am
Operator : jaimem
Sample : ic1065-20
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 10 13:28:10 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:27:18 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	116720	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.105	95	43963	5.23	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 104.60%				
70) 1,2-dichlorobenzene-d4...	15.837	152	40849	4.93	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 98.60%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.886	85	88736	22.66	ug/L		100
3) chloromethane	4.129	50	136082	22.06	ug/L		98
4) vinyl chloride	4.378	62	158393	21.95	ug/L		100
5) bromomethane	4.870	96	78701	22.24	ug/L		97
6) Ethanol	5.025	45	59503	1864.41	ug/L		96
7) chloroethane	5.025	64	63985	20.43	ug/L		96
8) acetone	5.799	58	9000	19.07	ug/L		97
9) ethyl ether	5.914	59	67983	20.91	ug/L	#	70
10) trichlorofluoromethane	5.671	101	176701	22.01	ug/L		94
11) 1,1-dichloroethene	6.264	96	94077	21.24	ug/L	#	64
12) methylene chloride	6.412	84	115210	21.29	ug/L	#	63
13) tertiary butyl alcohol	6.258	59	47311	195.03	ug/L		99
14) carbon disulfide	6.689	76	301654	20.88	ug/L		100
15) trans-1,2-dichloroethene	7.120	96	109583	21.43	ug/L	#	65
16) Methyl tert butyl ether	7.214	73	218538	20.91	ug/L		75
17) 1,1-dichloroethane	7.369	63	199364	21.53	ug/L		95
18) 2-butanone	7.787	43	315488	20.75	ug/L	#	26
19) di-isopropyl ether	7.793	45	340392	20.79	ug/L		90
20) tert-butyl ethyl ether	8.191	59	297465	20.49	ug/L		86
21) 2,2-dichloropropane	8.251	77	147493	20.52	ug/L		98
22) cis-1,2-dichloroethene	7.955	96	119097	21.36	ug/L	#	72
23) tetrahydrofuran	8.501	42	14609	18.67	ug/L		83
24) bromochloromethane	8.123	128	53221	20.82	ug/L	#	63
25) chloroform	8.164	83	195770	20.95	ug/L		100
26) 1,1,1-trichloroethane	8.932	97	166504	20.79	ug/L		89
27) carbon tetrachloride	9.302	117	136596	20.69	ug/L		96
28) 1,1-dichloropropene	9.107	75	142303	20.92	ug/L		96
29) benzene	9.336	78	418472	20.95	ug/L		99
30) 1,2-dichloroethane	8.824	62	131517	21.12	ug/L		97
31) tert-amyl methyl ether	9.464	73	228867	20.31	ug/L		81
32) trichloroethene	9.969	95	115047	20.76	ug/L		100
33) 1,2-dichloropropane	9.936	63	114553	21.07	ug/L		98
34) dibromomethane	9.909	93	59402	20.95	ug/L		99
35) bromodichloromethane	10.023	83	137034	20.60	ug/L		99
36) 1,4-dioxane	10.124	88	1959m	80.70	ug/L		
37) cis-1,3-dichloropropene	10.656	75	165378	20.24	ug/L		96
38) 4-methyl-2-pentanone	10.751	43	58707	19.76	ug/L		97
39) toluene	11.451	92	253224	20.88	ug/L		100
40) trans-1,3-dichloropropene	11.087	75	126628	20.36	ug/L		100
42) 1,1,2-Trichloroethane	11.263	97	73726	20.93	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30582.D
Acq On : 10 Jul 2013 11:38 am
Operator : jaimem
Sample : ic1065-20
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 10 13:28:10 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:27:18 2013
Response via : Initial Calibration

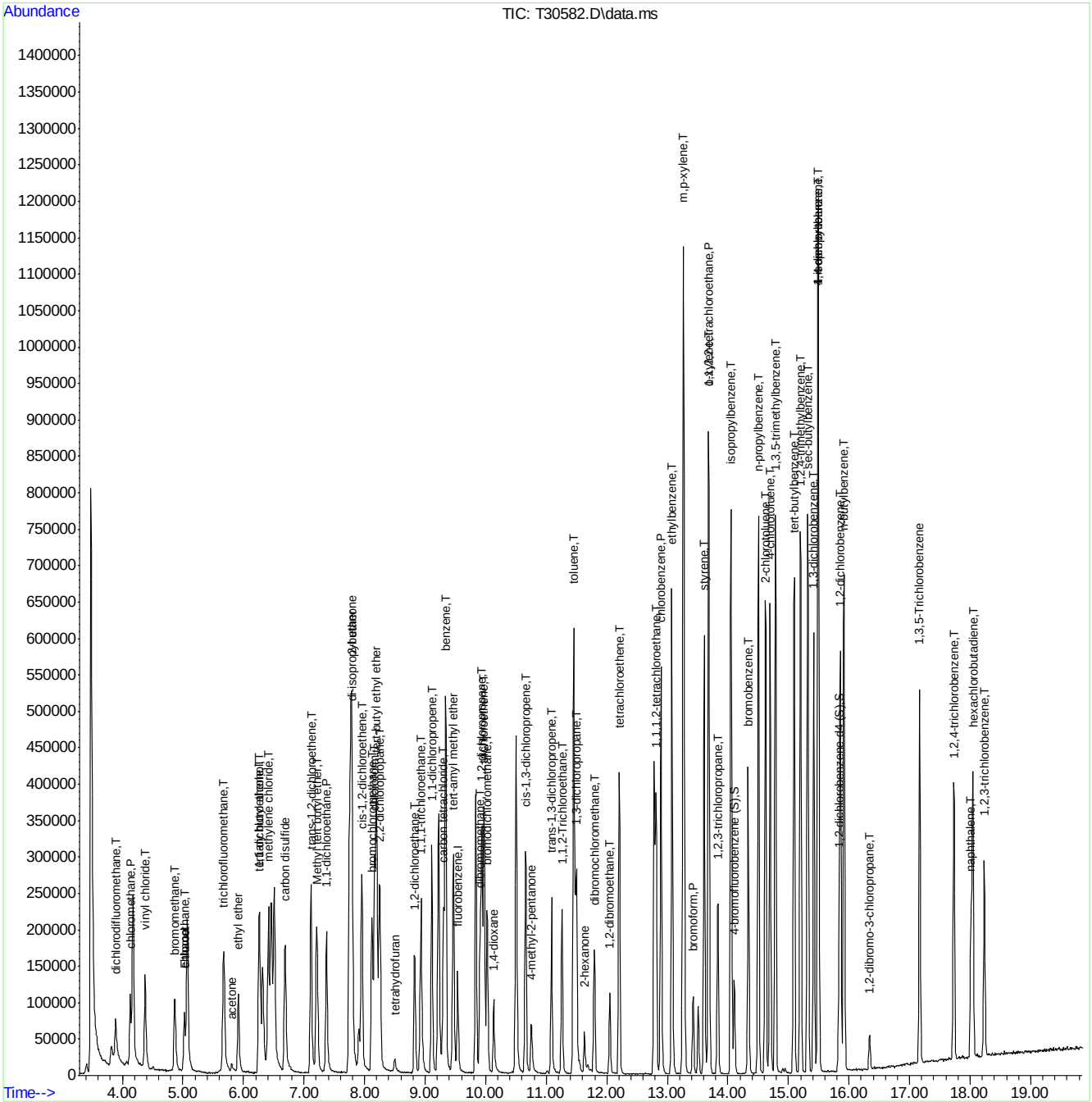
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) tetrachloroethene	12.206	166	113185	20.62	ug/L	97
44) 1,3-dichloropropane	11.498	76	131950	20.90	ug/L	98
45) 2-hexanone	11.626	43	54054	18.91	ug/L	97
46) dibromochloromethane	11.795	129	89532	19.87	ug/L	99
47) 1,2-dibromoethane	12.051	107	75099	21.33	ug/L	95
48) chlorobenzene	12.893	112	307198	20.85	ug/L	100
49) 1,1,1,2-tetrachloroethane	12.812	131	96775	20.01	ug/L	98
50) ethylbenzene	13.075	91	493139	20.36	ug/L	100
51) m,p-xylene	13.263	106	398475	40.49	ug/L	94
52) o-xylene	13.681	106	198138	19.84	ug/L	95
53) styrene	13.607	104	294845	19.76	ug/L	99
54) bromoform	13.425	173	50955	18.80	ug/L	100
55) isopropylbenzene	14.051	105	512962	20.00	ug/L	98
56) bromobenzene	14.341	156	123533	20.34	ug/L	92
57) 1,1,2,2-tetrachloroethane	13.681	83	81991	19.46	ug/L	99
58) 1,2,3-trichloropropane	13.836	75	86686	19.49	ug/L	95
59) n-propylbenzene	14.503	91	608188	19.77	ug/L	98
60) 2-chlorotoluene	14.624	126	127915	19.65	ug/L	93
61) 4-chlorotoluene	14.698	91	378704	20.08	ug/L	97
62) 1,3,5-trimethylbenzene	14.786	105	428841	19.23	ug/L	100
63) tert-butylbenzene	15.096	119	353683	19.89	ug/L	99
64) 1,2,4-trimethylbenzene	15.197	105	429376	19.52	ug/L	98
65) sec-butylbenzene	15.318	105	548037	19.20	ug/L	98
66) 1,3-dichlorobenzene	15.419	146	249102	19.52	ug/L	97
67) 4-isopropyltoluene	15.493	119	409531	18.63	ug/L	99
68) 1,4-dichlorobenzene	15.486	146	240012	19.23	ug/L	99
69) 1,2-dichlorobenzene	15.857	146	223545	19.85	ug/L	99
71) n-butylbenzene	15.917	91	403581	18.36	ug/L	96
72) 1,2-dibromo-3-chloropr...	16.335	75	11149	19.62	ug/L	93
73) 1,3,5-Trichlorobenzene	17.164	180	164078	19.36	ug/L	99
74) 1,2,4-trichlorobenzene	17.736	180	125484	19.72	ug/L	93
75) hexachlorobutadiene	18.046	225	81378	19.24	ug/L	97
76) naphthalene	18.012	128	154792	18.58	ug/L	100
77) 1,2,3-trichlorobenzene	18.235	180	90363	18.96	ug/L	99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30582.D
Acq On : 10 Jul 2013 11:38 am
Operator : jaimem
Sample : ic1065-20
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 10 13:28:10 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:27:18 2013
Response via : Initial Calibration



T130710D.M Wed Jul 10 13:42:34 2013 Page: 3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30583.D
Acq On : 10 Jul 2013 12:07 pm
Operator : jaimem
Sample : ic1065-40
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 10 13:26:06 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:25:27 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	121856	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.105	95	43324	4.88	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 97.60%				
70) 1,2-dichlorobenzene-d4...	15.837	152	42047	4.73	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 94.60%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.893	85	177790	47.63	ug/L		100
3) chloromethane	4.129	50	274333	45.56	ug/L		100
4) vinyl chloride	4.378	62	312579	43.12	ug/L		96
5) bromomethane	4.870	96	155604	44.48	ug/L		97
6) Ethanol	5.025	45	143600	4671.58	ug/L		98
7) chloroethane	5.025	64	143738	48.81	ug/L		97
8) acetone	5.799	58	20960	45.40	ug/L		99
9) ethyl ether	5.914	59	142213	43.99	ug/L		72
10) trichlorofluoromethane	5.671	101	356497	45.41	ug/L		97
11) 1,1-dichloroethene	6.258	96	193296	43.78	ug/L	#	67
12) methylene chloride	6.412	84	236945	44.09	ug/L	#	65
13) tertiary butyl alcohol	6.258	59	105152	431.58	ug/L		99
14) carbon disulfide	6.689	76	628475	43.49	ug/L		100
15) trans-1,2-dichloroethene	7.120	96	222063	43.35	ug/L	#	67
16) Methyl tert butyl ether	7.214	73	457316	44.02	ug/L		77
17) 1,1-dichloroethane	7.376	63	403693	43.66	ug/L		90
18) 2-butanone	7.787	43	660264	43.32	ug/L	#	97
19) di-isopropyl ether	7.793	45	712905	43.58	ug/L		90
20) tert-butyl ethyl ether	8.198	59	629993	43.25	ug/L		86
21) 2,2-dichloropropane	8.252	77	311238	43.04	ug/L		99
22) cis-1,2-dichloroethene	7.955	96	241674	43.15	ug/L	#	72
23) tetrahydrofuran	8.501	42	34325	44.23	ug/L		81
24) bromochloromethane	8.123	128	111206	43.51	ug/L	#	57
25) chloroform	8.164	83	404652	43.08	ug/L		96
26) 1,1,1-trichloroethane	8.932	97	346265	42.92	ug/L		90
27) carbon tetrachloride	9.302	117	282687	42.09	ug/L		96
28) 1,1-dichloropropene	9.114	75	294167	42.94	ug/L		97
29) benzene	9.336	78	868007	43.36	ug/L		100
30) 1,2-dichloroethane	8.824	62	271511	43.68	ug/L		95
31) tert-amyl methyl ether	9.464	73	487497	43.00	ug/L		81
32) trichloroethene	9.976	95	240070	43.09	ug/L		100
33) 1,2-dichloropropane	9.936	63	233838	42.49	ug/L		96
34) dibromomethane	9.909	93	124299	44.19	ug/L		96
35) bromodichloromethane	10.023	83	283654	41.72	ug/L		100
36) 1,4-dioxane	10.131	88	5201	210.74	ug/L	#	38
37) cis-1,3-dichloropropene	10.656	75	351747	42.54	ug/L		97
38) 4-methyl-2-pentanone	10.751	43	128247	42.77	ug/L		99
39) toluene	11.451	92	519040	42.03	ug/L		96
40) trans-1,3-dichloropropene	11.088	75	265460	41.80	ug/L		96
42) 1,1,2-Trichloroethane	11.263	97	153314	43.55	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30583.D
Acq On : 10 Jul 2013 12:07 pm
Operator : jaimem
Sample : ic1065-40
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 10 13:26:06 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:25:27 2013
Response via : Initial Calibration

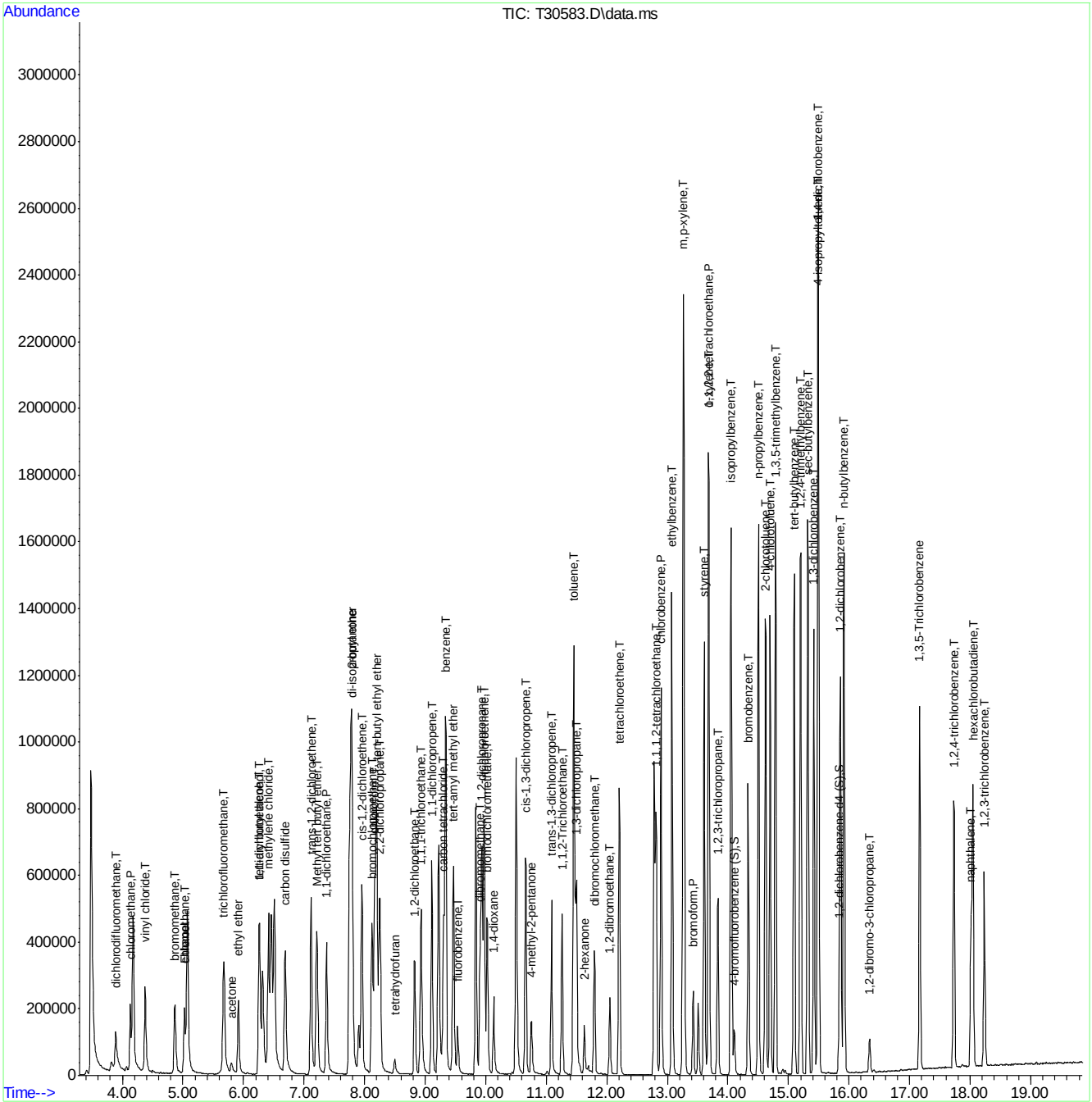
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) tetrachloroethene	12.206	166	235568	42.26	ug/L		98
44) 1,3-dichloropropane	11.498	76	271602	42.48	ug/L		97
45) 2-hexanone	11.626	43	123945	43.17	ug/L		96
46) dibromochloromethane	11.795	129	192608	41.92	ug/L		99
47) 1,2-dibromoethane	12.051	107	152733	43.24	ug/L		96
48) chlorobenzene	12.893	112	634737	42.59	ug/L		98
49) 1,1,1,2-tetrachloroethane	12.812	131	206716	41.93	ug/L		99
50) ethylbenzene	13.075	91	1042891	42.54	ug/L		100
51) m,p-xylene	13.263	106	840814	83.78	ug/L		97
52) o-xylene	13.681	106	421939	40.93	ug/L		98
53) styrene	13.607	104	632533	41.22	ug/L		98
54) bromoform	13.425	173	114912	41.24	ug/L		96
55) isopropylbenzene	14.052	105	1087181	41.23	ug/L		98
56) bromobenzene	14.341	156	259088	41.75	ug/L		89
57) 1,1,2,2-tetrachloroethane	13.681	83	179920	41.85	ug/L		96
58) 1,2,3-trichloropropane	13.836	75	189010	41.45	ug/L		98
59) n-propylbenzene	14.503	91	1297822	40.82	ug/L		99
60) 2-chlorotoluene	14.624	126	278254	41.91	ug/L		91
61) 4-chlorotoluene	14.698	91	794507	40.70	ug/L		96
62) 1,3,5-trimethylbenzene	14.786	105	937786	40.58	ug/L		100
63) tert-butylbenzene	15.096	119	756014	41.46	ug/L		96
64) 1,2,4-trimethylbenzene	15.203	105	919282	40.08	ug/L		98
65) sec-butylbenzene	15.318	105	1193893	40.15	ug/L		99
66) 1,3-dichlorobenzene	15.419	146	533820	40.16	ug/L		99
67) 4-isopropyltoluene	15.493	119	905813	38.97	ug/L		99
68) 1,4-dichlorobenzene	15.486	146	520907	39.95	ug/L		99
69) 1,2-dichlorobenzene	15.857	146	474229	40.66	ug/L		99
71) n-butylbenzene	15.917	91	896077	38.13	ug/L		100
72) 1,2-dibromo-3-chloropr...	16.342	75	24094	41.23	ug/L	#	77
73) 1,3,5-Trichlorobenzene	17.164	180	357271	40.77	ug/L		98
74) 1,2,4-trichlorobenzene	17.736	180	266986	40.36	ug/L		99
75) hexachlorobutadiene	18.046	225	176719	40.06	ug/L		97
76) naphthalene	18.012	128	348764	40.18	ug/L		100
77) 1,2,3-trichlorobenzene	18.235	180	200563	40.63	ug/L		99

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30583.D
Acq On : 10 Jul 2013 12:07 pm
Operator : jaimem
Sample : ic1065-40
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 10 13:26:06 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:25:27 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30584.D
Acq On : 10 Jul 2013 12:34 pm
Operator : jaimem
Sample : ic1065-80
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 10 13:36:19 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:36:08 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.538	96	139779	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.105	95	50924	5.24	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 104.80%				
70) 1,2-dichlorobenzene-d4...	15.837	152	51010	5.50	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 110.00%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.893	85	342573	61.93	ug/L		99
3) chloromethane	4.129	50	552522	60.88	ug/L		100
4) vinyl chloride	4.378	62	665273	64.73	ug/L		98
5) bromomethane	4.870	96	321018	60.67	ug/L		100
6) Ethanol	5.025	45	280876	5651.94	ug/L		95
7) chloroethane	5.025	64	270260	64.59	ug/L		99
8) acetone	5.799	58	42365	82.68	ug/L		91
9) ethyl ether	5.914	59	296635	73.29	ug/L	#	67
10) trichlorofluoromethane	5.671	101	720418	68.86	ug/L		98
11) 1,1-dichloroethene	6.264	96	405198	61.57	ug/L	#	68
12) methylene chloride	6.412	84	493127	67.03	ug/L	#	64
13) tertiary butyl alcohol	6.258	59	223586	720.65	ug/L		99
14) carbon disulfide	6.689	76	1326144	73.12	ug/L		100
15) trans-1,2-dichloroethene	7.113	96	470128	62.78	ug/L	#	67
16) Methyl tert butyl ether	7.214	73	953001	70.43	ug/L		77
17) 1,1-dichloroethane	7.376	63	848518	69.52	ug/L		92
18) 2-butanone	7.787	43	1398684	74.93	ug/L	#	97
19) di-isopropyl ether	7.793	45	1501191	73.76	ug/L		89
20) tert-butyl ethyl ether	8.198	59	1336687	73.93	ug/L		85
21) 2,2-dichloropropane	8.251	77	663530	70.52	ug/L		98
22) cis-1,2-dichloroethene	7.955	96	513976	66.54	ug/L	#	73
23) tetrahydrofuran	8.494	42	71218	79.92	ug/L		77
24) bromochloromethane	8.123	128	234559	74.23	ug/L	#	61
25) chloroform	8.164	83	862066	71.17	ug/L		96
26) 1,1,1-trichloroethane	8.932	97	740303	73.21	ug/L		91
27) carbon tetrachloride	9.302	117	616345	75.83	ug/L		99
28) 1,1-dichloropropene	9.114	75	628623	72.36	ug/L		97
29) benzene	9.336	78	1836908	72.30	ug/L		100
30) 1,2-dichloroethane	8.824	62	570433	70.48	ug/L		96
31) tert-amyl methyl ether	9.464	73	1040439	68.93	ug/L	#	81
32) trichloroethene	9.976	95	511312	71.65	ug/L		95
33) 1,2-dichloropropane	9.936	63	505045	72.74	ug/L		97
34) dibromomethane	9.909	93	258144	73.15	ug/L		97
35) bromodichloromethane	10.023	83	623950	77.76	ug/L		99
36) 1,4-dioxane	10.117	88	11324	541.14	ug/L	#	34
37) cis-1,3-dichloropropene	10.656	75	758857	77.10	ug/L		97
38) 4-methyl-2-pentanone	10.751	43	275191	86.96	ug/L		99
39) toluene	11.451	92	1133327	75.04	ug/L		99
40) trans-1,3-dichloropropene	11.088	75	582771	77.75	ug/L		99
42) 1,1,2-Trichloroethane	11.263	97	323074	72.27	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30584.D
Acq On : 10 Jul 2013 12:34 pm
Operator : jaimem
Sample : ic1065-80
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 10 13:36:19 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:36:08 2013
Response via : Initial Calibration

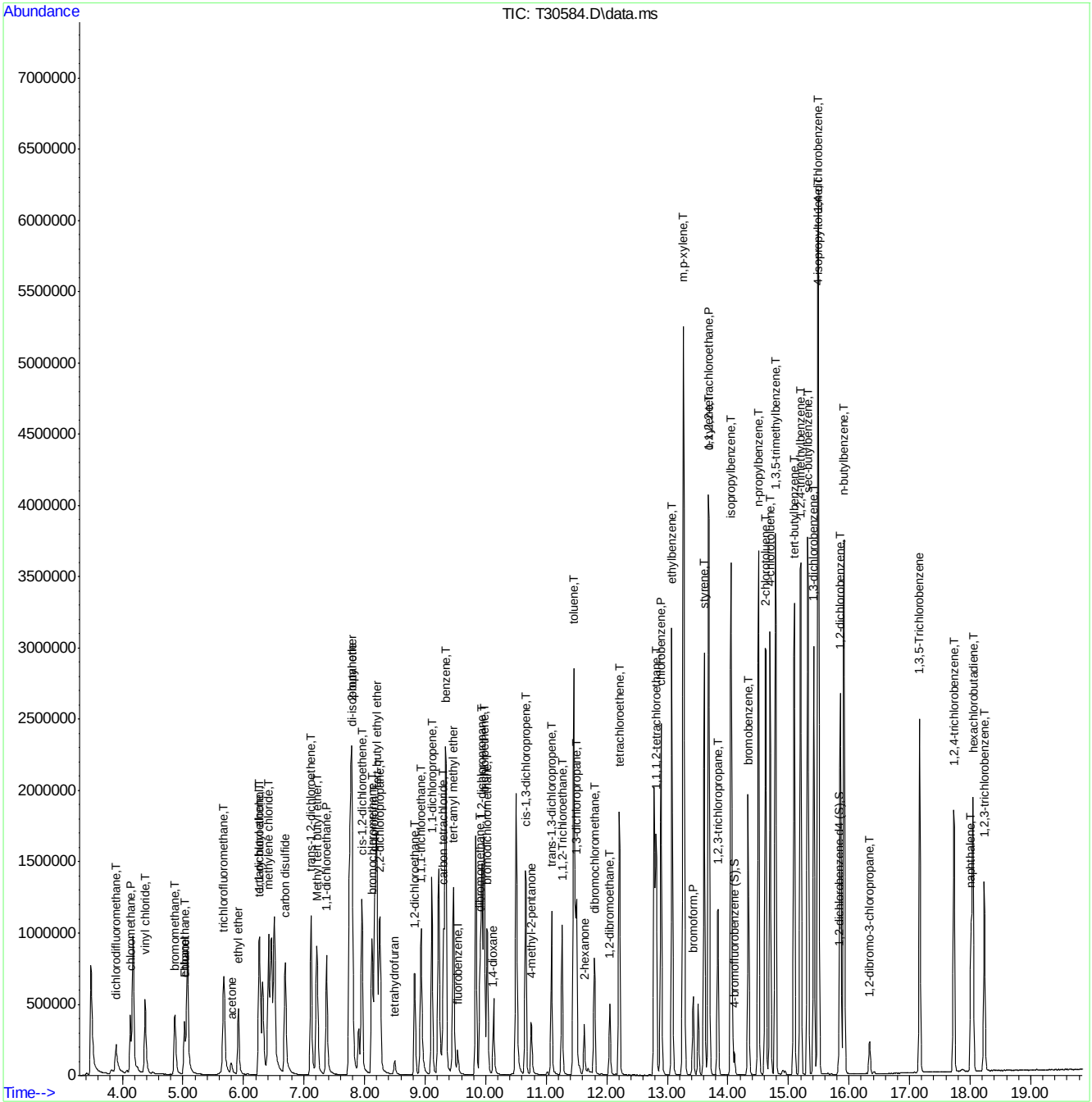
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) tetrachloroethene	12.206	166	511510	73.71	ug/L	98
44) 1,3-dichloropropane	11.498	76	586680	74.84	ug/L	100
45) 2-hexanone	11.626	43	263488	100.24	ug/L	99
46) dibromochloromethane	11.795	129	421681	82.97	ug/L	99
47) 1,2-dibromoethane	12.051	107	324111	75.46	ug/L	97
48) chlorobenzene	12.900	112	1367526	73.76	ug/L	98
49) 1,1,1,2-tetrachloroethane	12.812	131	452451	78.86	ug/L	97
50) ethylbenzene	13.075	91	2249455	75.80	ug/L	99
51) m,p-xylene	13.263	106	1842002	157.43	ug/L	98
52) o-xylene	13.681	106	945987	78.99	ug/L	100
53) styrene	13.607	104	1408319	82.53	ug/L	99
54) bromoform	13.425	173	255688	89.20	ug/L	99
55) isopropylbenzene	14.052	105	2419505	79.60	ug/L	100
56) bromobenzene	14.341	156	569447	76.71	ug/L	90
57) 1,1,2,2-tetrachloroethane	13.681	83	394521	79.69	ug/L	99
58) 1,2,3-trichloropropane	13.836	75	418433	81.49	ug/L	100
59) n-propylbenzene	14.503	91	2917880	81.71	ug/L	99
60) 2-chlorotoluene	14.624	126	609223	79.91	ug/L	93
61) 4-chlorotoluene	14.698	91	1791214	79.99	ug/L	97
62) 1,3,5-trimethylbenzene	14.786	105	2120603	84.61	ug/L	99
63) tert-butylbenzene	15.096	119	1673187	81.49	ug/L	98
64) 1,2,4-trimethylbenzene	15.203	105	2104851	86.06	ug/L	98
65) sec-butylbenzene	15.318	105	2728906	86.24	ug/L	98
66) 1,3-dichlorobenzene	15.419	146	1219936	82.94	ug/L	99
67) 4-isopropyltoluene	15.493	119	2132922	92.32	ug/L	99
68) 1,4-dichlorobenzene	15.486	146	1196421	85.75	ug/L	100
69) 1,2-dichlorobenzene	15.857	146	1070271	80.74	ug/L	99
71) n-butylbenzene	15.917	91	2156598	94.38	ug/L	99
72) 1,2-dibromo-3-chloropr...	16.342	75	53628	76.22	ug/L	93
73) 1,3,5-Trichlorobenzene	17.164	180	804208	84.15	ug/L	99
74) 1,2,4-trichlorobenzene	17.730	180	606973	83.69	ug/L	99
75) hexachlorobutadiene	18.046	225	404842	81.27	ug/L	98
76) naphthalene	18.012	128	796534	86.48	ug/L	100
77) 1,2,3-trichlorobenzene	18.235	180	453011	83.36	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30584.D
Acq On : 10 Jul 2013 12:34 pm
Operator : jaimem
Sample : ic1065-80
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 10 13:36:19 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 13:36:08 2013
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Amy Min Yang
07/10/13 16:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30589.D
Acq On : 10 Jul 2013 3:03 pm
Operator : jaimem
Sample : icv1065-20
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 10 15:24:32 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 14:20:00 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.545	96	119645	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.112	95	42748	5.14	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 102.80%				
70) 1,2-dichlorobenzene-d4...	15.837	152	42962	5.41	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 108.20%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.893	85	86612	18.29	ug/L		100
3) chloromethane	4.136	50	135061	17.39	ug/L		98
4) vinyl chloride	4.385	62	152937	20.38	ug/L		98
5) bromomethane	4.870	96	78721	21.25	ug/L		98
6) Ethanol	5.031	45	57511	1799.98	ug/L		95
7) chloroethane	5.031	64	67821	18.93	ug/L		98
8) acetone	5.820	58	9977	22.75	ug/L		87
9) ethyl ether	5.927	59	73041	21.08	ug/L		72
10) trichlorofluoromethane	5.678	101	179740	20.07	ug/L		92
11) 1,1-dichloroethene	6.264	96	96698	21.13	ug/L	#	62
12) methylene chloride	6.419	84	119272	18.94	ug/L	#	67
13) tertiary butyl alcohol	6.264	59	48691	183.35	ug/L		98
14) carbon disulfide	6.695	76	327292	21.08	ug/L		100
15) trans-1,2-dichloroethene	7.126	96	105882	19.99	ug/L	#	62
16) Methyl tert butyl ether	7.221	73	227688	19.66	ug/L		78
17) 1,1-dichloroethane	7.376	63	198794	19.03	ug/L		92
18) 2-butanone	7.793	43	321419	20.12	ug/L	#	26
19) di-isopropyl ether	7.800	45	352108	20.21	ug/L		91
20) tert-butyl ethyl ether	8.204	59	289092	18.68	ug/L		86
21) 2,2-dichloropropane	8.251	77	149268	18.53	ug/L		99
22) cis-1,2-dichloroethene	7.962	96	115499	17.47	ug/L	#	74
23) tetrahydrofuran	8.501	42	17119	22.05	ug/L		87
24) bromochloromethane	8.130	128	51823	19.16	ug/L	#	62
25) chloroform	8.171	83	197976	19.09	ug/L		98
26) 1,1,1-trichloroethane	8.939	97	162532	18.78	ug/L		90
27) carbon tetrachloride	9.309	117	132842	19.09	ug/L		96
28) 1,1-dichloropropene	9.114	75	139365	18.74	ug/L		98
29) benzene	9.343	78	414611	19.06	ug/L		99
30) 1,2-dichloroethane	8.831	62	130607	18.85	ug/L		97
31) tert-amyl methyl ether	9.471	73	230022	17.80	ug/L		81
32) trichloroethene	9.983	95	111516	18.26	ug/L		95
33) 1,2-dichloropropane	9.942	63	110521	18.60	ug/L		94
34) dibromomethane	9.915	93	57913	19.17	ug/L		98
35) bromodichloromethane	10.030	83	139128	20.26	ug/L		99
36) 1,4-dioxane	10.138	88	1791m	88.22	ug/L		
37) cis-1,3-dichloropropene	10.663	75	157385	18.68	ug/L		97
38) 4-methyl-2-pentanone	10.757	43	60874	22.47	ug/L		100
39) toluene	11.458	92	244640	18.92	ug/L		100
40) trans-1,3-dichloropropene	11.094	75	131598	20.51	ug/L		98
42) 1,1,2-Trichloroethane	11.263	97	72832	19.03	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30589.D
Acq On : 10 Jul 2013 3:03 pm
Operator : jaimem
Sample : icv1065-20
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 10 15:24:32 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 14:20:00 2013
Response via : Initial Calibration

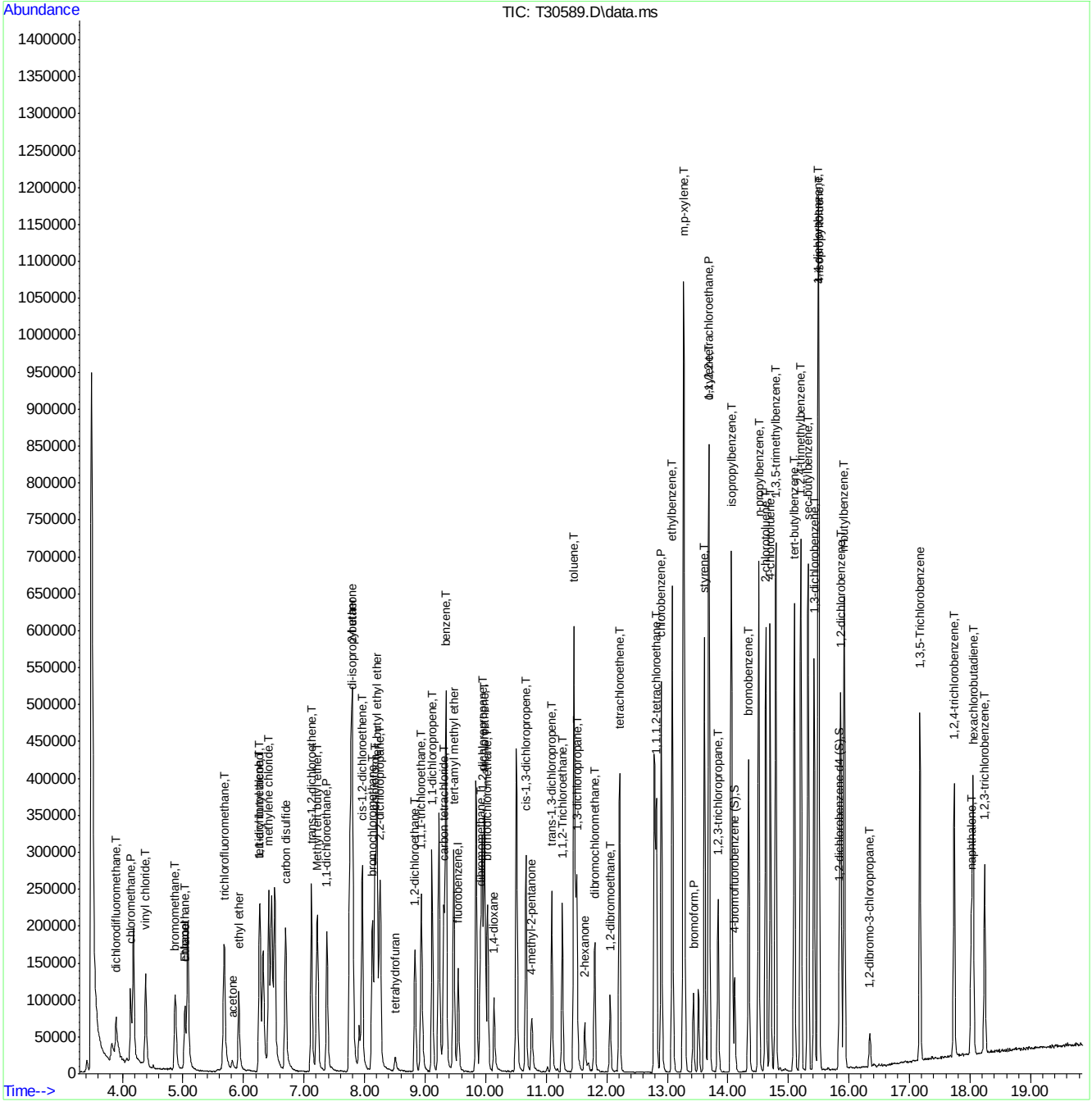
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) tetrachloroethene	12.212	166	110252	18.56	ug/L	94
44) 1,3-dichloropropane	11.505	76	126296	18.82	ug/L	99
45) 2-hexanone	11.633	43	60795	21.52	ug/L	98
46) dibromochloromethane	11.801	129	90750	20.86	ug/L	99
47) 1,2-dibromoethane	12.057	107	73362	19.95	ug/L	98
48) chlorobenzene	12.900	112	286887	18.08	ug/L	96
49) 1,1,1,2-tetrachloroethane	12.819	131	99066	20.17	ug/L	99
50) ethylbenzene	13.081	91	476508	18.76	ug/L	99
51) m,p-xylene	13.270	106	382345	38.18	ug/L	97
52) o-xylene	13.688	106	190459	18.58	ug/L	95
53) styrene	13.614	104	286339	19.60	ug/L	99
54) bromoform	13.432	173	50859	20.73	ug/L	97
55) isopropylbenzene	14.058	105	481350	18.50	ug/L	100
56) bromobenzene	14.341	156	121821	19.17	ug/L	98
57) 1,1,2,2-tetrachloroethane	13.688	83	84411	19.92	ug/L	98
58) 1,2,3-trichloropropane	13.836	75	86146	19.60	ug/L	96
59) n-propylbenzene	14.509	91	559461	18.30	ug/L	96
60) 2-chlorotoluene	14.624	126	119235	18.27	ug/L	93
61) 4-chlorotoluene	14.698	91	359057	18.73	ug/L	98
62) 1,3,5-trimethylbenzene	14.792	105	408048	19.02	ug/L	99
63) tert-butylbenzene	15.096	119	323053	18.38	ug/L	98
64) 1,2,4-trimethylbenzene	15.203	105	403156	19.26	ug/L	100
65) sec-butylbenzene	15.325	105	501111	18.50	ug/L	99
66) 1,3-dichlorobenzene	15.426	146	236620	18.79	ug/L	98
67) 4-isopropyltoluene	15.500	119	408680	20.67	ug/L	99
68) 1,4-dichlorobenzene	15.493	146	239026	20.01	ug/L	98
69) 1,2-dichlorobenzene	15.864	146	209240	18.44	ug/L	97
71) n-butylbenzene	15.917	91	380514	19.46	ug/L	100
72) 1,2-dibromo-3-chloropr...	16.342	75	10958	18.20	ug/L	92
73) 1,3,5-Trichlorobenzene	17.170	180	151965	18.58	ug/L	100
74) 1,2,4-trichlorobenzene	17.736	180	118780	19.13	ug/L	98
75) hexachlorobutadiene	18.053	225	78475	18.40	ug/L	100
76) naphthalene	18.019	128	148797	18.87	ug/L	100
77) 1,2,3-trichlorobenzene	18.241	180	86516	18.60	ug/L	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130710\
Data File : T30589.D
Acq On : 10 Jul 2013 3:03 pm
Operator : jaimem
Sample : icv1065-20
Misc : MS29369,MST1065,,,,5,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 10 15:24:32 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Jul 10 14:20:00 2013
Response via : Initial Calibration



Manual Integrations APPROVED
(compounds with "m" flag)
Tomasz Torski
09/25/13 08:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130924\
Data File : T31345.D
Acq On : 24 Sep 2013 9:50 am
Operator : jaimem
Sample : cc1065-5
Misc : MS29969,MST1092,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 11:06:51 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Sep 18 08:44:25 2013
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) fluorobenzene	9.545	96	181863	5.00	ug/L		0.00
System Monitoring Compounds							
41) 4-bromofluorobenzene (S)	14.105	95	61130	4.84	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 96.80%				
70) 1,2-dichlorobenzene-d4...	15.837	152	57278	4.74	ug/L		0.00
Spiked Amount 5.000	Range 70 - 130		Recovery = 94.80%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	3.893	85	61297m	8.52	ug/L		
3) chloromethane	4.129	50	66712	5.65	ug/L		99
4) vinyl chloride	4.378	62	70241	5.44	ug/L		96
5) bromomethane	4.870	96	34453	5.28	ug/L		95
6) Ethanol	5.032	45	24216	474.70	ug/L		92
7) chloroethane	5.025	64	28439	5.22	ug/L		96
8) acetone	5.820	58	2962m	4.44	ug/L		
9) ethyl ether	5.928	59	23306	4.43	ug/L		70
10) trichlorofluoromethane	5.678	101	73564	5.40	ug/L		92
11) 1,1-dichloroethene	6.264	96	38625	4.97	ug/L	#	63
12) methylene chloride	6.413	84	45624	4.77	ug/L	#	70
13) tertiary butyl alcohol	6.264	59	15347	38.02	ug/L		90
14) carbon disulfide	6.689	76	119010	5.04	ug/L		100
15) trans-1,2-dichloroethene	7.120	96	43454	4.87	ug/L	#	63
16) Methyl tert butyl ether	7.214	73	68409	3.89	ug/L		81
17) 1,1-dichloroethane	7.376	63	75612	4.76	ug/L		94
18) 2-butanone	7.787	43	109058	4.49	ug/L	#	98
19) di-isopropyl ether	7.793	45	127237	4.80	ug/L		97
20) tert-butyl ethyl ether	8.198	59	101143	4.30	ug/L		87
21) 2,2-dichloropropane	8.245	77	56167	4.59	ug/L		97
22) cis-1,2-dichloroethene	7.955	96	47979	4.77	ug/L	#	72
23) tetrahydrofuran	8.501	42	5084	4.31	ug/L		87
24) bromochloromethane	8.124	128	18990	4.62	ug/L	#	52
25) chloroform	8.164	83	72656	4.61	ug/L		91
26) 1,1,1-trichloroethane	8.932	97	62127	4.72	ug/L		89
27) carbon tetrachloride	9.302	117	52401	4.95	ug/L		97
28) 1,1-dichloropropene	9.114	75	51733	4.58	ug/L		93
29) benzene	9.343	78	158840	4.80	ug/L		98
30) 1,2-dichloroethane	8.831	62	42732	4.06	ug/L		89
31) tert-amyl methyl ether	9.464	73	75062	3.82	ug/L		81
32) trichloroethene	9.976	95	43652	4.70	ug/L		97
33) 1,2-dichloropropane	9.936	63	42495	4.70	ug/L		97
34) dibromomethane	9.909	93	18968	4.13	ug/L	#	81
35) bromodichloromethane	10.030	83	50016	4.79	ug/L		98
36) 1,4-dioxane	10.131	88	410m	29.43	ug/L		
37) cis-1,3-dichloropropene	10.663	75	56015	4.37	ug/L		97
38) 4-methyl-2-pentanone	10.758	43	17323	4.21	ug/L		96
39) toluene	11.458	92	94447	4.81	ug/L		92
40) trans-1,3-dichloropropene	11.094	75	41096	4.21	ug/L		95
42) 1,1,2-Trichloroethane	11.263	97	25310	4.35	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130924\
Data File : T31345.D
Acq On : 24 Sep 2013 9:50 am
Operator : jaimem
Sample : cc1065-5
Misc : MS29969,MST1092,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 11:06:51 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Sep 18 08:44:25 2013
Response via : Initial Calibration

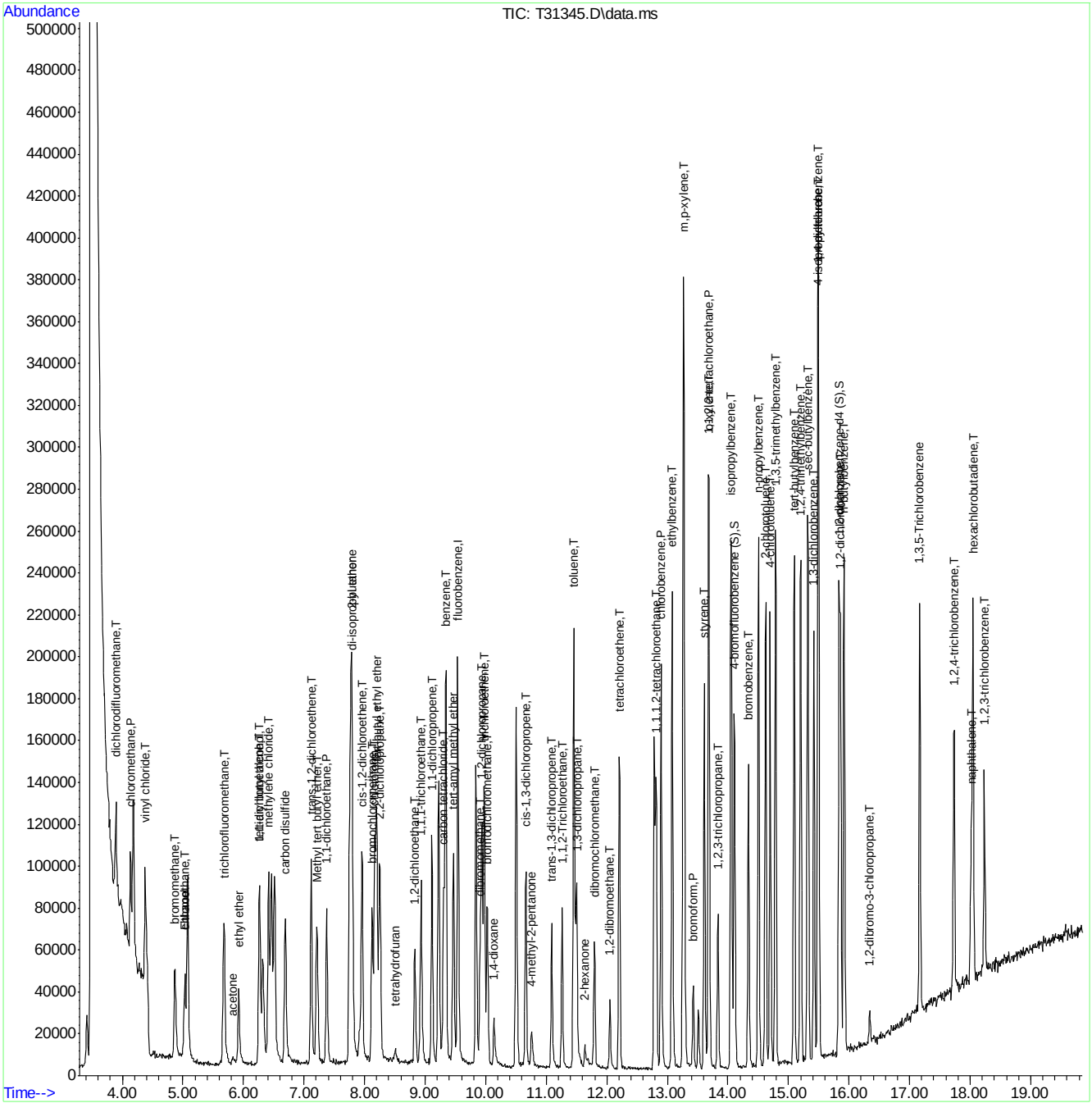
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
43) tetrachloroethene	12.206	166	46169	5.11	ug/L		94
44) 1,3-dichloropropane	11.505	76	44075	4.32	ug/L		100
45) 2-hexanone	11.640	43	13671m	3.50	ug/L		
46) dibromochloromethane	11.795	129	32146	4.86	ug/L		96
47) 1,2-dibromoethane	12.051	107	23821	4.26	ug/L		97
48) chlorobenzene	12.900	112	113921	4.72	ug/L		94
49) 1,1,1,2-tetrachloroethane	12.812	131	37130	4.97	ug/L		96
50) ethylbenzene	13.082	91	177778	4.60	ug/L		99
51) m,p-xylene	13.270	106	138652	9.11	ug/L		98
52) o-xylene	13.681	106	71612	4.60	ug/L		92
53) styrene	13.614	104	102064	4.60	ug/L		95
54) bromoform	13.425	173	19613	5.26	ug/L		95
55) isopropylbenzene	14.052	105	177242	4.48	ug/L		100
56) bromobenzene	14.341	156	45246	4.68	ug/L	#	85
57) 1,1,2,2-tetrachloroethane	13.688	83	27715	4.30	ug/L		99
58) 1,2,3-trichloropropane	13.836	75	27618	4.13	ug/L		98
59) n-propylbenzene	14.503	91	209849	4.52	ug/L		97
60) 2-chlorotoluene	14.624	126	45840m	4.62	ug/L		
61) 4-chlorotoluene	14.698	91	130306	4.47	ug/L		94
62) 1,3,5-trimethylbenzene	14.786	105	148730	4.56	ug/L		99
63) tert-butylbenzene	15.096	119	121616	4.55	ug/L		98
64) 1,2,4-trimethylbenzene	15.204	105	143947	4.52	ug/L		99
65) sec-butylbenzene	15.318	105	196454	4.77	ug/L		99
66) 1,3-dichlorobenzene	15.419	146	91004	4.76	ug/L		97
67) 4-isopropyltoluene	15.493	119	139112	4.63	ug/L		99
68) 1,4-dichlorobenzene	15.486	146	86776	4.78	ug/L		99
69) 1,2-dichlorobenzene	15.857	146	78470	4.55	ug/L		100
71) n-butylbenzene	15.918	91	139225	4.68	ug/L		96
72) 1,2-dibromo-3-chloropr...	16.342	75	5066	5.53	ug/L		88
73) 1,3,5-Trichlorobenzene	17.164	180	66902	5.38	ug/L		96
74) 1,2,4-trichlorobenzene	17.736	180	44742	4.74	ug/L		98
75) hexachlorobutadiene	18.046	225	41755	6.44	ug/L		94
76) naphthalene	18.019	128	49621	4.14	ug/L		100
77) 1,2,3-trichlorobenzene	18.235	180	33480	4.74	ug/L		100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\130924\
Data File : T31345.D
Acq On : 24 Sep 2013 9:50 am
Operator : jaimem
Sample : cc1065-5
Misc : MS29969,MST1092,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Sep 24 11:06:51 2013
Quant Method : C:\msdchem\2\methods\T130710D.M
Quant Title : Method 524
QLast Update : Wed Sep 18 08:44:25 2013
Response via : Initial Calibration



Accutest Laboratories of New England, Inc. **Instrument: GCMS T**

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS9276	524 IS/SS	50ppm
MS9295/9285	cc/gas	↓
MS9287/9286	BS/gas	↓
MS9273	TTM	10ppm

Daily Saved File

Tune file 1:	T30576
Tune file 2:	
Initial Cal:	7/10/13
ID File:	T130710D.M
ICAL Verified:	T30589
Sequence verified:	jm

Date: 7/10/13

Batch ID: MST1065

Analysts jm

Signature: jm

*Note: If sample matrix is soil – method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
T30576	BFB		NA	Curve	1	W	5mL	—	1:1	NA	✓✓ 8:57am
77	ic1065-0.5				2						✓✓
78	-1				3						✓✓
79	-2				4						✓✓
80	icc1065-5				5						✓✓
81	ic1065-10				6						✓✓
82	-20				7						✓✓
83	-40				8						✓✓
84	-80				9						✓✓
85	Blank				10						~~✓✓~~
86	Blank				11						~~✓✓~~
87	icv1065-5				12						✓✓
88	icv1065-5				13						
89	~~Blank~~ icv-20				14						✓✓ icv1065-20
90	~~MB Blank~~				15						~~icv1065-30~~
91	MB		↓		16					↓	✓✓
92	MC22482-1	2	MS24385	NITF	17					L2	✓✓
93	MC22402-4	1		STD+MIBE	18						
94	-3	1			19						
95	-3dup	3			20						
96	-2	2			21						
97	-1	3			22						
98	MC22406-2	1	MS24369	NMS	23		50µl		100X		
99	-3	2			24		25µl		200X		
T30600	-4	2			25		25µl		200X		
01	-5	2			26		50µl		100X		
02	-6	2	↓	↓	27	↓	10µl	↓	500X	↓	8:52pm
	(10 Blanks)										

jm 7/11/13

MTX = Matrix: Designate W for water, S for soil, O for oil.
Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-04 Date: 12/02/08

Review:_____

Accutest Laboratories of New England, Inc. **Instrument: GCMS T**

VOLATILE ORGANICS BY GC/MS ANALYSIS LOG

Standards Data

Lot #	Description	Conc
MS9362	524 ls/ss	50ppm
MS9365/9377	↓ cc/gas	↓
MS9367/9378	↓ BS/gas	↓
MS9369	↓ THM	10ppm

Daily Saved File

Tune file 1:	T31345
Tune file 2:	NA
Initial Cal:	7/10/13
ID File:	T130710D.M
ICAL Verified:	JM
Sequence verified:	KL

Date: 9/24/13

Batch ID: MST1092

Analysts JM

Signature: JM

*Note: If sample matrix is soil – method SW846 5035 used for preparation. SW846 5030 is purge and trap method for soil and water

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% Sol	Dil. Fact.	pH	Comments
T31344	Primer		NA	NA	1	W	5mL	—	1:1	NA	
45	CC1065-5		↓	↓	2	↓	↓	↓	↓	↓	W 9:50am
46	BS				3						W
47	BSD				4						W
48	THM				5						
49	MB		↓	↓ ⊕	6					↓	W
50	MC24273-1A	1	MS29969	MTBE TBA, TAME	7					<2	W
51	MC24274-1A	2	↓	↓	8					↓	W
52	MC24275-1A	1	↓	↓	9						W
53	MC24310-1	1	MS30001		10						W
54	↓ -1dup	2	↓		11						W
55	MC24311-1	2			12						W Dup!
56	MC24312-1	1			13						W
57	MC24313-1	2		↓	14						W
58	MC24324-3	3		STD+	15						W
59	MC24325-3	4			16						W
60	MC24326-3	5			17						W
61	MC24327-3	5			18						W
62	MC24328-1	5			19						W
63	MC24329-1	5		↓	20						W
64	MC24381-1	2		STD+MTBE	21						W
65	MC24551-1	1			22						W
66	MC24601-1	1			23						W
67	↓ -2	2			24						W
68	MC24631-1	1			25						W
69	MC24632-1	1	↓	↓	26	↓	↓	↓	↓	↓	W

JM 9/24/13

MTX = Matrix: Designate W for water, S for soil, O for oil.
Sample amount is reported in grams (wet) for soil and oil, mls for water.

MS001-04 Date: 12/02/08

Review:_____