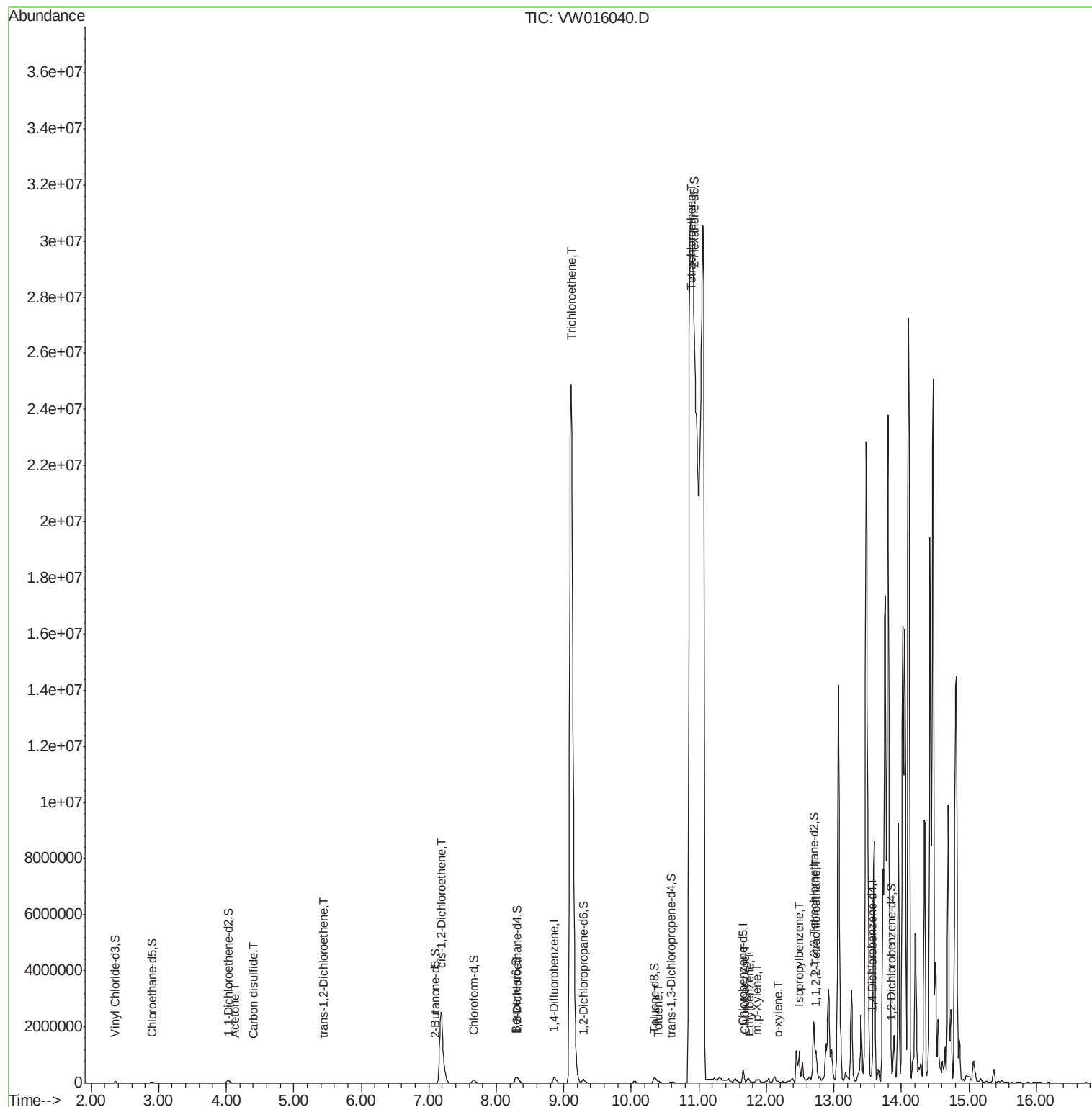
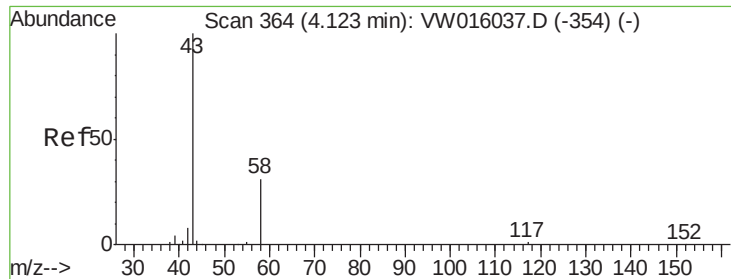


Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080520\
Data File : VW016040.D
Acq On : 05 Aug 2020 13:43
Operator : SY/VA
Sample : L3564-01
Misc : 6.63G/10ML/MSVOA W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BFSM8

Quant Time: Aug 06 03:20:41 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM072020S.M
Quant Title : VOC Analysis
QLast Update : Wed Aug 05 03:09:52 2020
Response via : Initial Calibration





#13

Acetone

Concen: 19.807 ug/L

RT: 4.13 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW016040.D

Acq: 05 Aug 2020 13:43

Instrument :

MSVOA_W

ClientSampled :

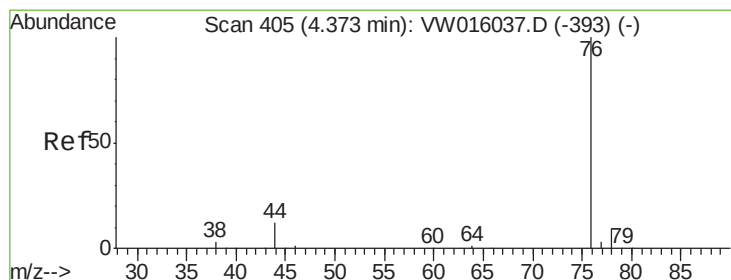
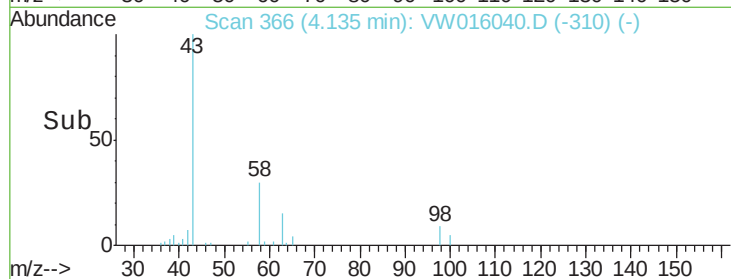
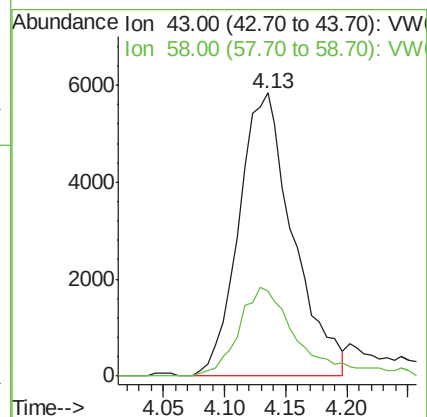
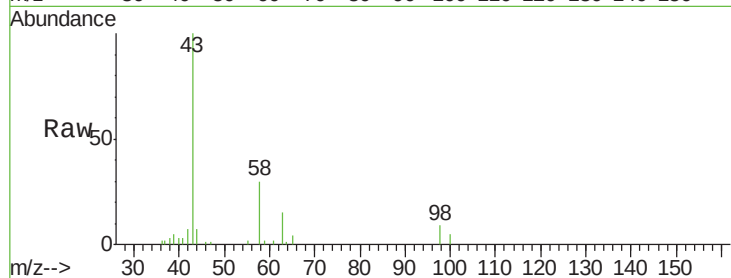
BFSM8

Tot Ion: 43 Resp: 18002

Ion Ratio Lower Upper

43 100

58 32.4 0.0 58.2



#14

Carbon disulfide

Concen: 0.384 ug/L

RT: 4.39 min Scan# 408

Delta R.T. 0.01 min

Lab File: VW016040.D

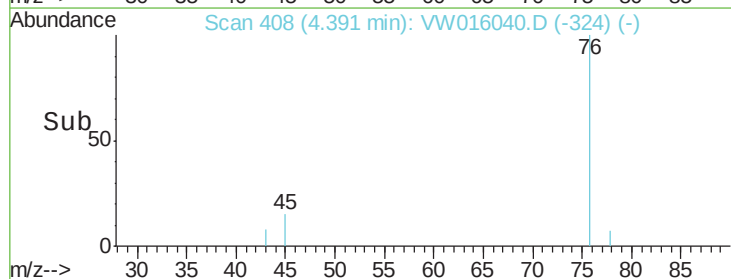
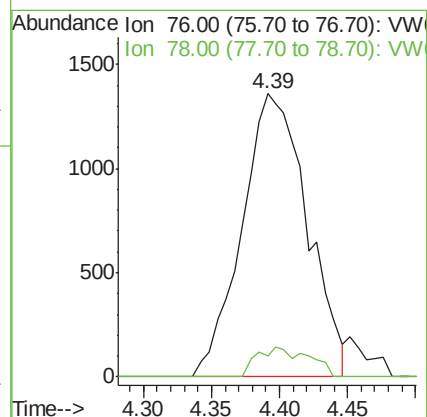
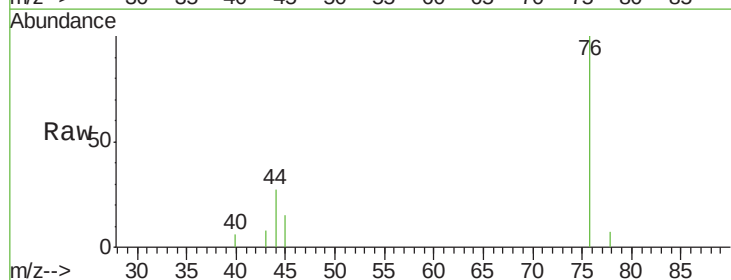
Acq: 05 Aug 2020 13:43

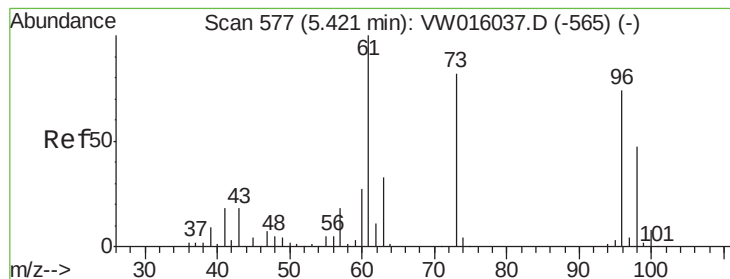
Tgt Ion: 76 Resp: 4555

Ion Ratio Lower Upper

76 100

78 7.4 7.2 10.8





#18

trans-1,2-Dichloroethene

Concen: 2.121 ug/L

RT: 5.45 min Scan# 581

Delta R.T. 0.02 min

Lab File: VW016040.D

Acq: 05 Aug 2020 13:43

Instrument :

MSVOA_W

ClientSampleId :

BFSM8

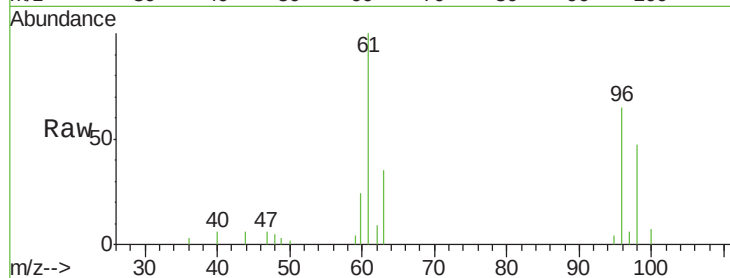
Tot Ion: 96 Resp: 8405

Ion Ratio Lower Upper

96 100

61 152.9 99.3 184.5

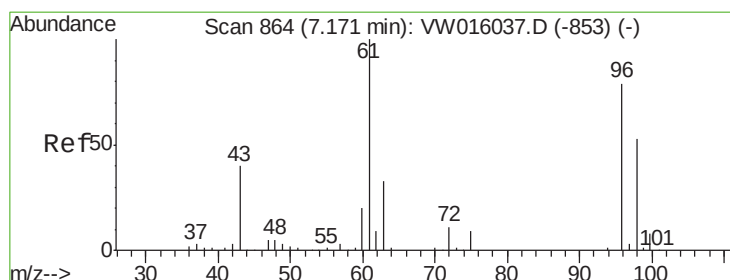
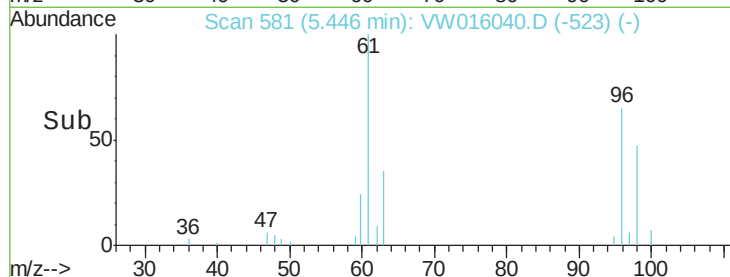
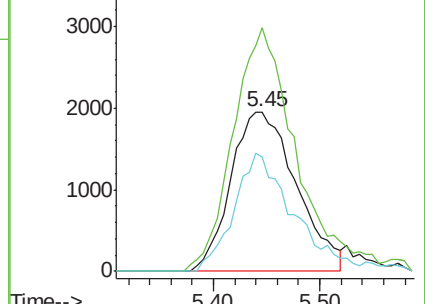
98 71.6 42.9 79.7



Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW



#22

cis-1,2-Dichloroethene

Concen: 528.033 ug/L

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW016040.D

Acq: 05 Aug 2020 13:43

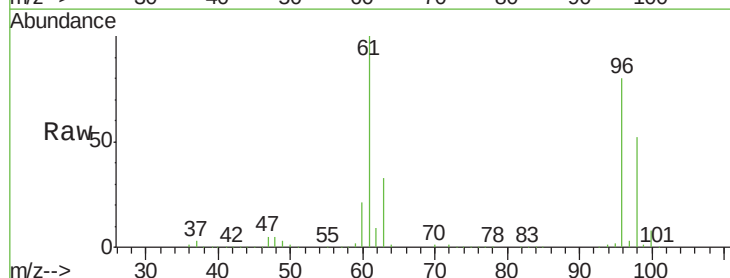
Tgt Ion: 96 Resp: 2189682

Ion Ratio Lower Upper

96 100

61 124.7 94.6 175.8

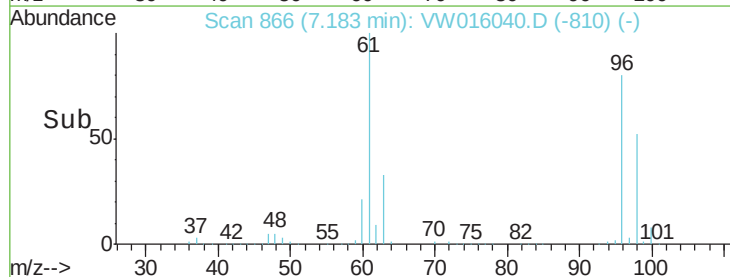
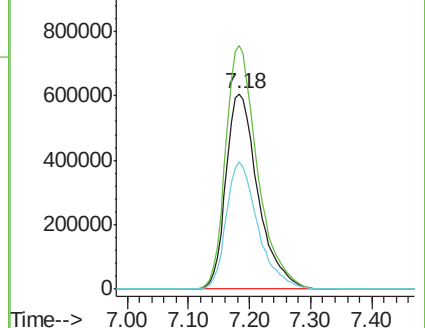
98 65.2 44.3 82.3

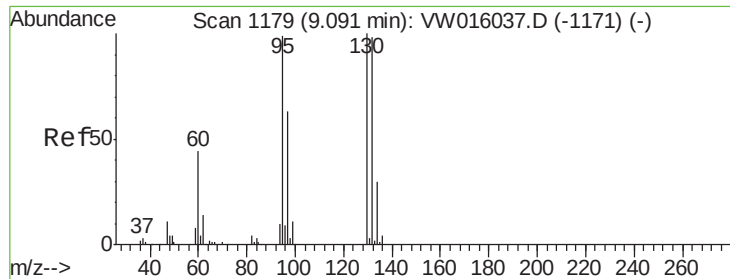


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 98.00 (97.70 to 98.70): VW





#35

Trichloroethene

Concen: 4503.024 ug/L

RT: 9.10 min Scan# 1181

Delta R.T. 0.01 min

Lab File: VW016040.D

Acq: 05 Aug 2020 13:43

Instrument :

MSVOA_W

ClientSampled :

BFSM8

Tot Ion: 95 Resp:15405709

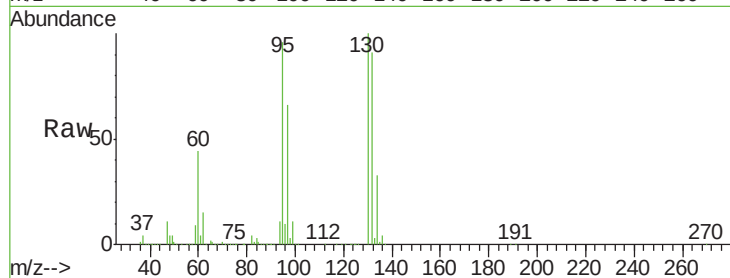
Ion Ratio Lower Upper

95 100

97 67.1 44.4 82.4

132 99.2 65.1 120.9

130 103.4 68.6 127.4

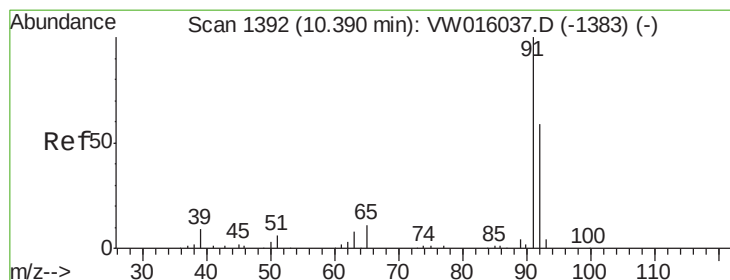
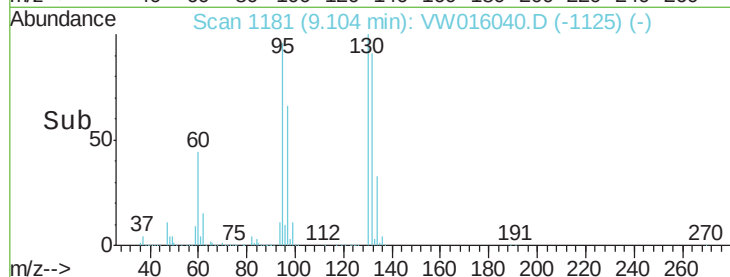
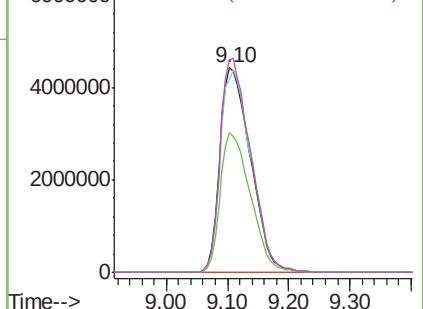


Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#44

Toluene

Concen: 3.453 ug/L

RT: 10.41 min Scan# 1395

Delta R.T. 0.02 min

Lab File: VW016040.D

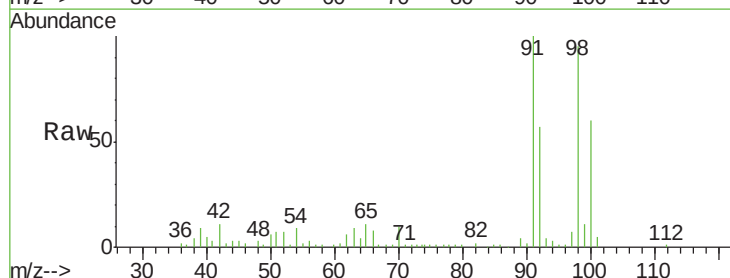
Acq: 05 Aug 2020 13:43

Tgt Ion: 91 Resp: 46834

Ion Ratio Lower Upper

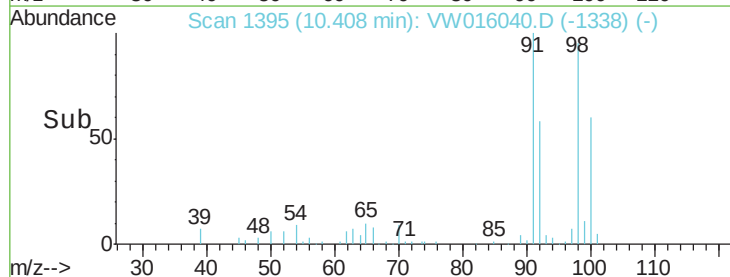
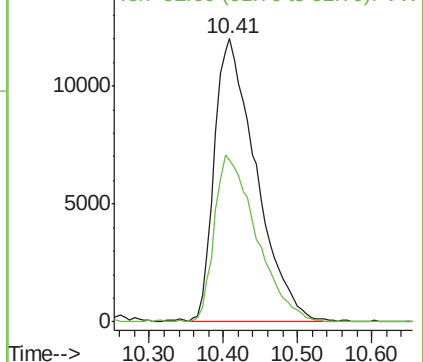
91 100

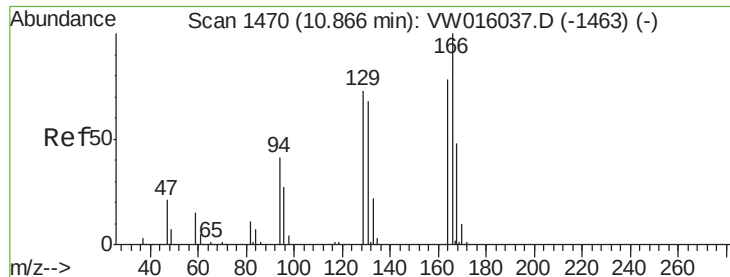
92 57.3 41.2 76.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW





#47

Tetrachloroethene

Concen: 17276.947 ug/L m

RT: 10.90 min Scan# 1475

Delta R.T. 0.03 min

Lab File: VW016040.D

Acq: 05 Aug 2020 13:43

Instrument :

MSVOA_W

ClientSampleId :

BFSM8

Tot Ion:164 Resp:45879905

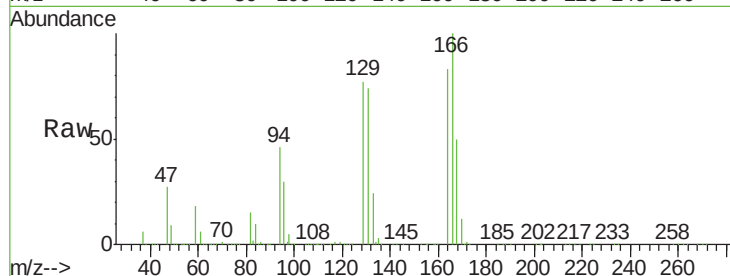
Ion Ratio Lower Upper

164 100

129 92.3 70.0 130.0

131 89.3 67.3 124.9

166 120.2 88.5 164.3



Abundance Ion 164.00 (163.70 to 164.70): V

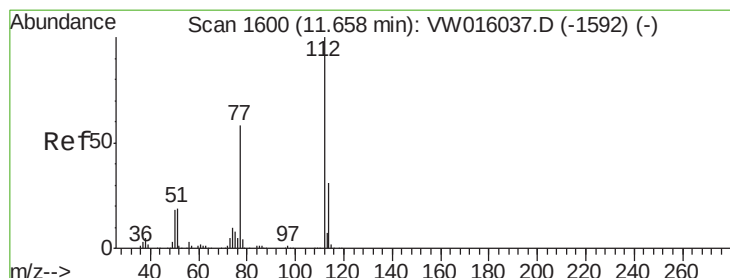
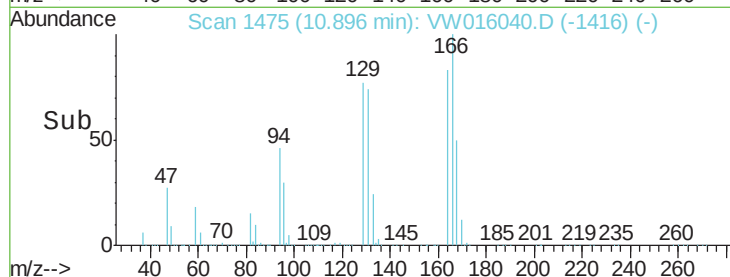
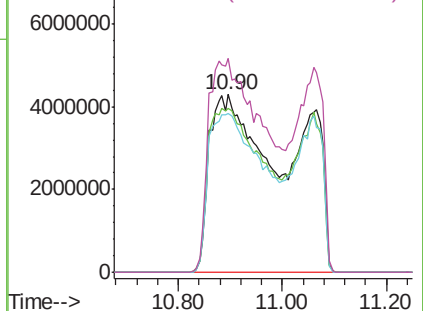
8000000 Ion 129.00 (128.70 to 129.70): V

6000000 Ion 131.00 (130.70 to 131.70): V

4000000 Ion 166.00 (165.70 to 166.70): V

2000000

0



#52

Chlorobenzene

Concen: 0.774 ug/L

RT: 11.68 min Scan# 1604

Delta R.T. 0.02 min

Lab File: VW016040.D

Acq: 05 Aug 2020 13:43

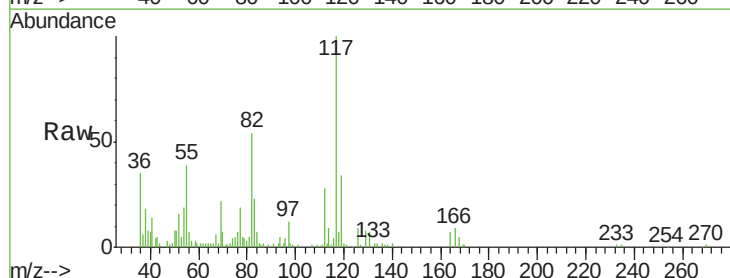
Tgt Ion:112 Resp: 6729

Ion Ratio Lower Upper

112 100

77 70.4 47.8 71.6

114 31.4 22.1 41.1



Abundance Ion 112.00 (111.70 to 112.70): V

5000 Ion 77.00 (76.70 to 77.70): V

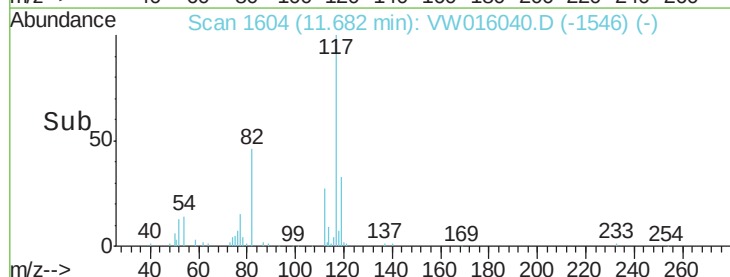
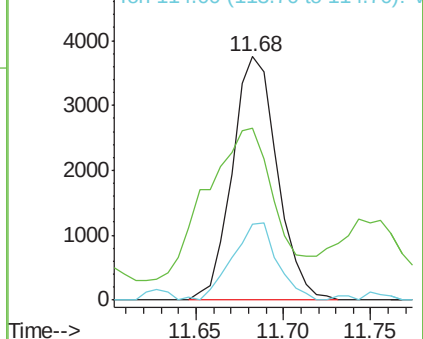
4000 Ion 114.00 (113.70 to 114.70): V

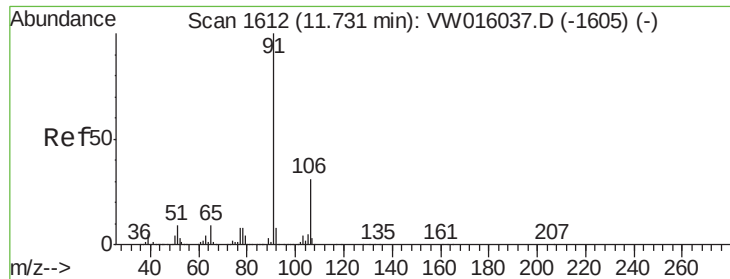
3000

2000

1000

0





#53

Ethylbenzene

Concen: 1.112 ug/L

RT: 11.76 min Scan# 1616

Delta R.T. 0.02 min

Lab File: VW016040.D

Acq: 05 Aug 2020 13:43

Instrument :

MSVOA_W

ClientSampled :

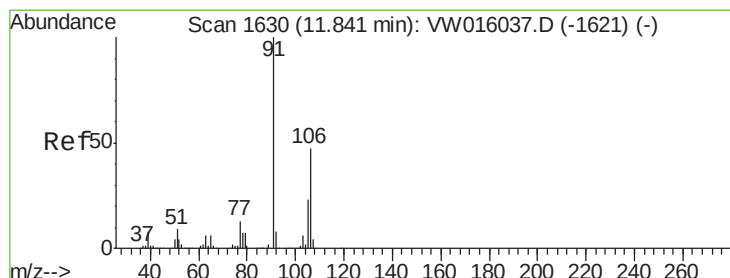
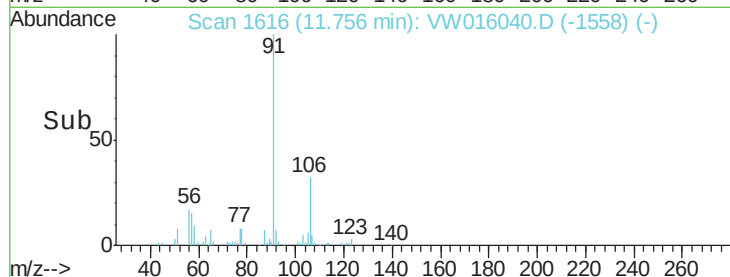
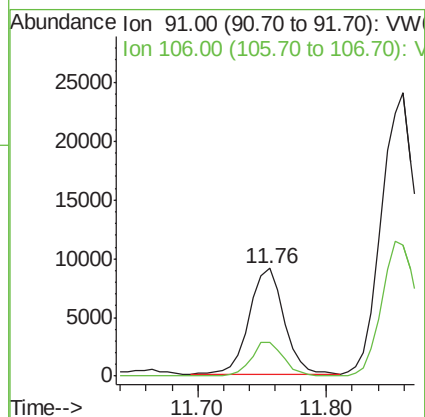
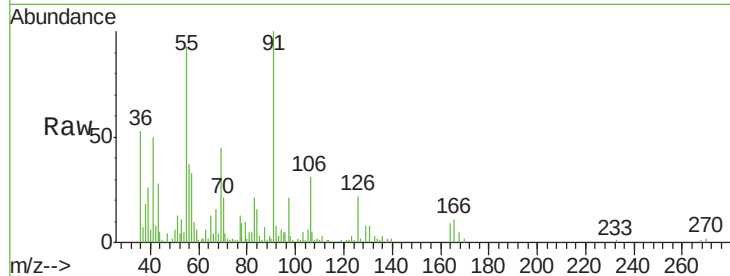
BFSM8

Tot Ion: 91 Resp: 16962

Ion Ratio Lower Upper

91 100

106 30.8 22.4 41.6



#54

m,p-Xylene

Concen: 3.921 ug/L

RT: 11.85 min Scan# 1632

Delta R.T. 0.01 min

Lab File: VW016040.D

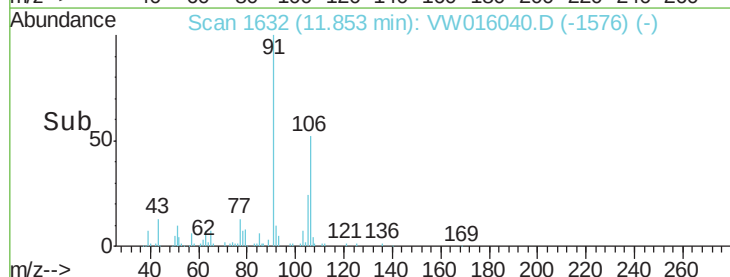
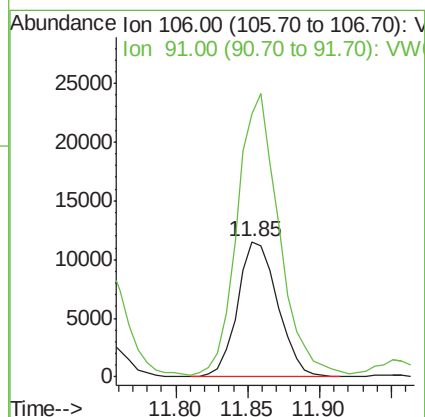
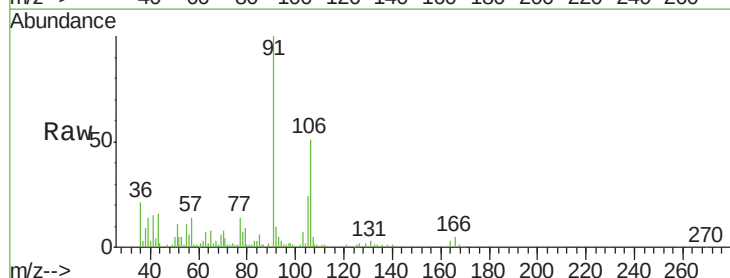
Acq: 05 Aug 2020 13:43

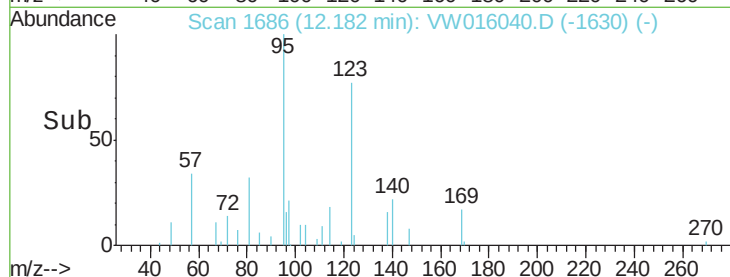
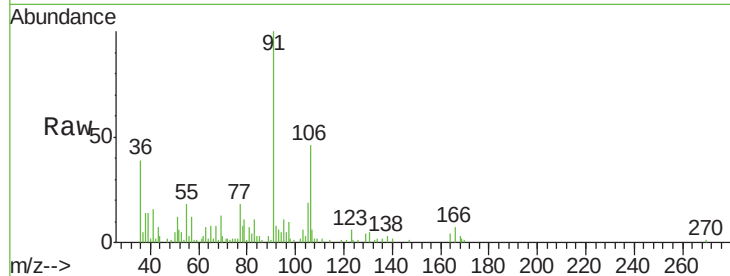
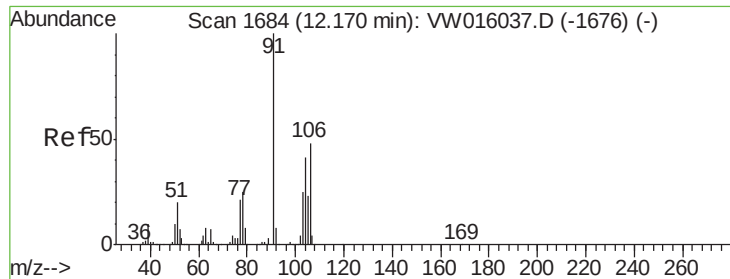
Tgt Ion: 106 Resp: 22378

Ion Ratio Lower Upper

106 100

91 195.1 144.1 267.5

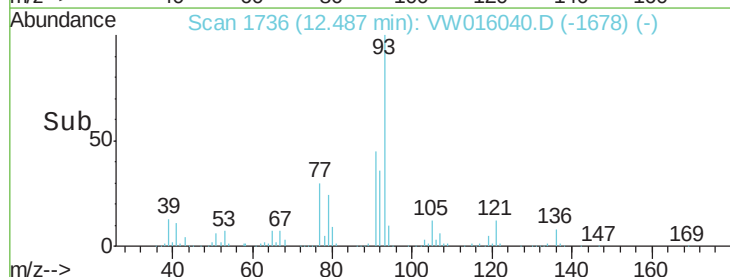
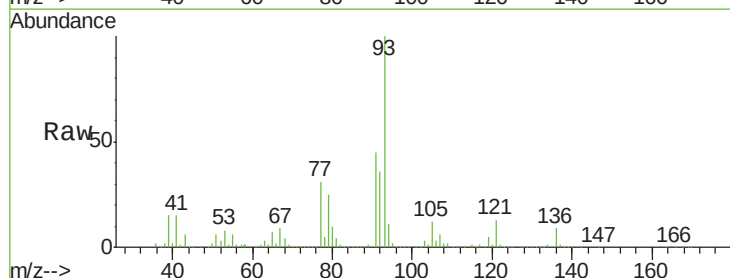
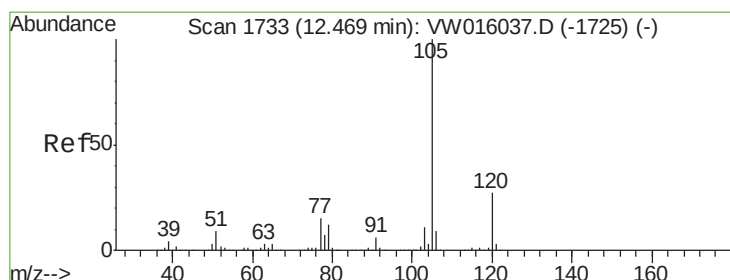
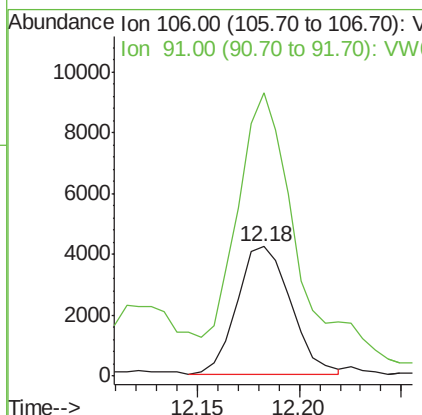




#55
o-xylene
Concen: 1.419 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. 0.01 min
Lab File: VW016040.D
Acq: 05 Aug 2020 13:43

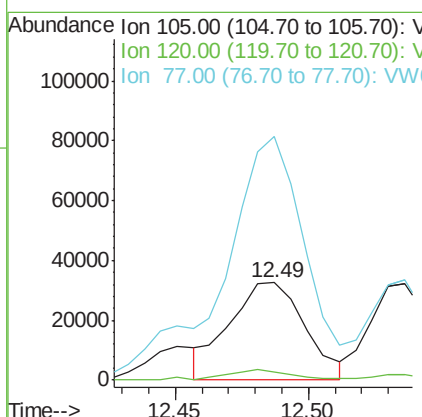
Instrument :
MSVOA_W
ClientSampled :
BFSM8

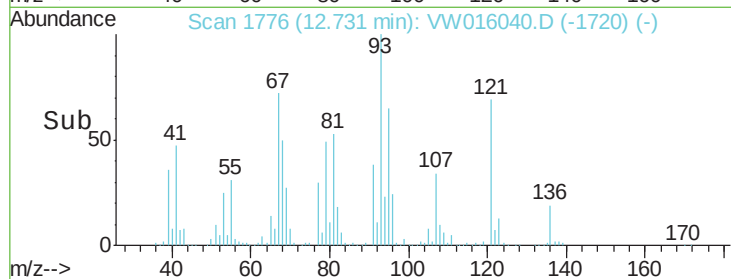
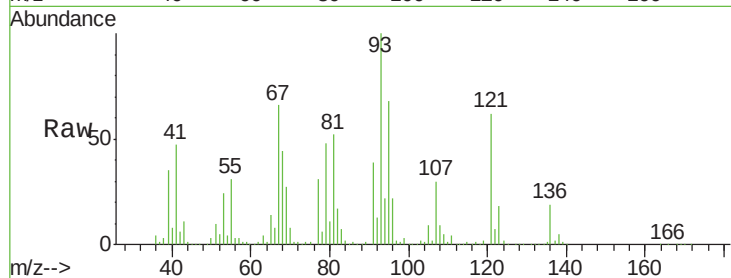
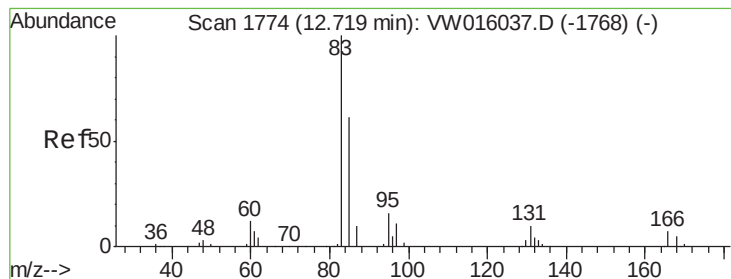
Tot Ion:106 Resp: 7625
Ion Ratio Lower Upper
106 100
91 219.0 146.8 272.6



#57
Isopropylbenzene
Concen: 4.412 ug/L m
RT: 12.49 min Scan# 1736
Delta R.T. 0.02 min
Lab File: VW016040.D
Acq: 05 Aug 2020 13:43

Tgt Ion:105 Resp: 64530
Ion Ratio Lower Upper
105 100
120 0.5 20.4 30.6#
77 37.1 12.9 19.3#





#58

1,1,2,2-Tetrachloroethane

Concen: 5.913 ug/L

RT: 12.73 min Scan# 1776

Delta R.T. 0.01 min

Lab File: VW016040.D

Acq: 05 Aug 2020 13:43

Instrument :

MSVOA_W

ClientSampleId :

BFSM8

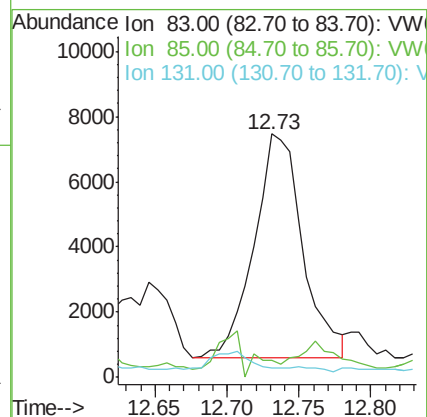
Tot Ion: 83 Resp: 15996

Ion Ratio Lower Upper

83 100

85 7.2 45.1 83.7#

131 4.1 8.2 12.4#



Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW080520\
 Data File : VW016040.D
 Acq On : 05 Aug 2020 13:43
 Operator : SY/VA
 Sample : L3564-01
 Misc : 6.63G/10ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 BFSM8

Quant Time: Aug 06 03:20:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM072020S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 05 03:09:52 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.86	114	291986	25.00	ug/L	0.01
28) Chlorobenzene-d5	11.66	117	212938	25.00	ug/L	0.02
60) 1,4-Dichlorobenzene-d4	13.57	152	74722m	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	71668	17.39	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	69.56%
7) Chloroethane-d5	2.90	69	62481	18.67	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	74.68%
10) 1,1-Dichloroethene-d2	4.03	63	117571	14.11	ug/L	0.02
Spiked Amount	25.000	Range	45 - 110	Recovery	=	56.44%
20) 2-Butanone-d5	7.09	46	36107	33.36	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	66.72%
24) Chloroform-d	7.66	84	160866	19.62	ug/L	0.02
Spiked Amount	25.000	Range	40 - 150	Recovery	=	78.48%
26) 1,2-Dichloroethane-d4	8.32	65	84746	18.83	ug/L	0.01
Spiked Amount	25.000	Range	70 - 130	Recovery	=	75.32%
29) Benzene-d6	8.29	84	315878	24.37	ug/L	0.01
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.48%
33) 1,2-Dichloropropane-d6	9.29	67	86808	22.34	ug/L	0.01
Spiked Amount	25.000	Range	70 - 120	Recovery	=	89.36%
37) Toluene-d8	10.34	98	265132	22.58	ug/L	0.02
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.32%
38) trans-1,3-Dichloropropene-	10.59	79	37104	22.40	ug/L	0.01
Spiked Amount	25.000	Range	30 - 135	Recovery	=	89.60%
39) 2-Hexanone-d5	10.93	63	855m	1.32	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	2.64%#
48) 1,1,2,2-Tetrachloroethane-	12.70	84	56380	18.88	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	75.52%
61) 1,2-Dichlorobenzene-d4	13.86	152	57867	19.86	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	79.44%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	4.13	43	18002	19.807	ug/L	94
14) Carbon disulfide	4.39	76	4555	0.384	ug/L	96
18) trans-1,2-Dichloroethene	5.45	96	8405	2.121	ug/L	90
22) cis-1,2-Dichloroethene	7.18	96	2189682	528.033	ug/L	93
35) Trichloroethene	9.10	95	15405709	4503.024	ug/L	94
44) Toluene	10.41	91	46834	3.453	ug/L	98
47) Tetrachloroethene	10.90	164	45879905m	17276.947	ug/L	
52) Chlorobenzene	11.68	112	6729	0.774	ug/L	91
53) Ethylbenzene	11.76	91	16962	1.112	ug/L	98
54) m,p-Xylene	11.85	106	22378	3.921	ug/L	93
55) o-xylene	12.18	106	7625	1.419	ug/L	94
57) Isopropylbenzene	12.49	105	64530m	4.412	ug/L	
58) 1,1,2,2-Tetrachloroethane	12.73	83	15996	5.913	ug/L #	35

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