

Data File : VW006914.D
Acq On : 16 Nov 2018 12:48
Operator : SY/AP
Sample : J5945-16
Misc : 4.13G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ETOA7

Quant Time: Nov 16 14:14:00 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM111418S.M
Quant Title : VOC Analysis
QLast Update : Fri Nov 16 14:10:51 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	179330	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	145437	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	50894	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	38361	24.09	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	96.36%
7) Chloroethane-d5	2.89	69	29400	25.41	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	101.64%
10) 1,1-Dichloroethene-d2	4.02	63	74657	17.55	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	70.20%
20) 2-Butanone-d5	7.09	46	30740	35.03	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	70.06%
24) Chloroform-d	7.65	84	96080	24.20	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	96.80%
26) 1,2-Dichloroethane-d4	8.31	65	56166	25.07	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	100.28%
29) Benzene-d6	8.28	84	202927	26.69	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	106.76%
33) 1,2-Dichloropropane-d6	9.27	67	64925	27.90	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	111.60%
37) Toluene-d8	10.32	98	266498	34.22	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	136.88%#
38) trans-1,3-Dichloropropene-	10.58	79	23713	23.72	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	94.88%
39) 2-Hexanone-d5	10.93	63	24588	42.40	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	84.80%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	45687	22.68	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	90.72%
61) 1,2-Dichlorobenzene-d4	13.86	152	43081	22.35	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	89.40%

Target Compounds

					Qvalue
8) Chloroethane	2.93	64	1154	1.078 ug/L	86
13) Acetone	4.15	43	9392	16.615 ug/L	86
16) Methylene chloride	4.92	84	7306	2.330 ug/L	84
21) 2-Butanone	7.17	43	7200	7.382 ug/L #	62
30) Cyclohexane	7.96	56	134196	34.802 ug/L	99
34) Benzene	8.33	78	103002	12.664 ug/L	100
35) Trichloroethene	9.09	95	812	0.367 ug/L	95
36) Methylcyclohexane	9.34	83	928647	218.084 ug/L	96
41) Bromodichloromethane	9.61	83	4008	1.630 ug/L #	92
43) 4-Methyl-2-pentanone	10.25	43	8801	5.605 ug/L #	69
44) Toluene	10.39	91	10738	1.153 ug/L	96
46) 1,1,2-Trichloroethane	10.76	97	212297	138.377 ug/L #	21
49) 2-Hexanone	10.94	43	239285	205.835 ug/L #	22
53) Ethylbenzene	11.73	91	27057	2.441 ug/L	99
54) m,p-Xylene	11.84	106	38666	9.121 ug/L	96
55) o-xylene	12.17	106	10769	2.773 ug/L	89
57) Isopropylbenzene	12.47	105	102391	9.419 ug/L	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111618\
Quantitation Report (Not Reviewed)

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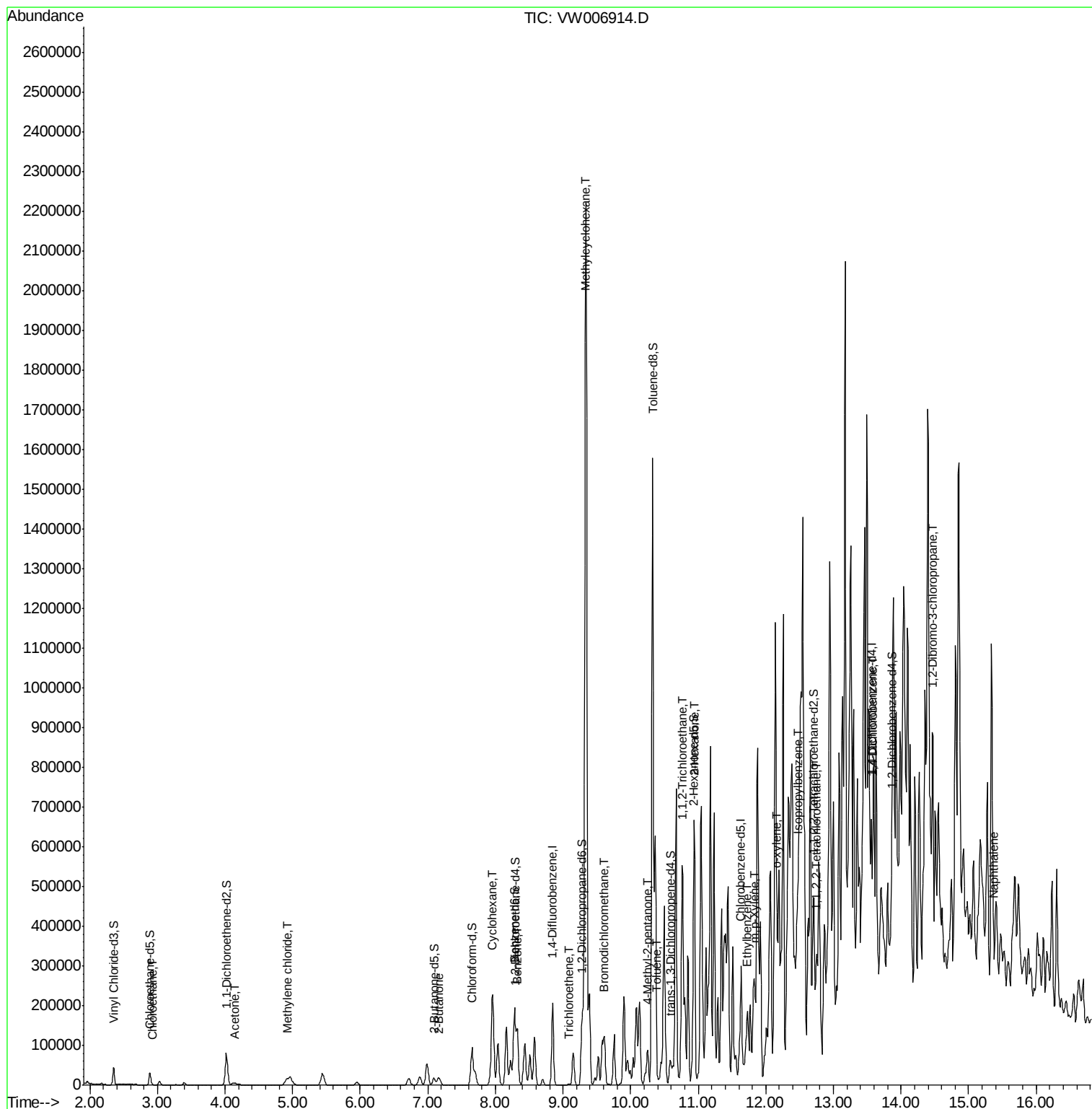
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) 1,1,2,2-Tetrachloroethane	12.75	83	4452	2.287	ug/L #	80
64) 1,4-Dichlorobenzene	13.58	146	1862	0.565	ug/L #	1
66) 1,2-Dibromo-3-chloropropan	14.46	75	2911	10.582	ug/L #	7
69) Naphthalene	15.38	128	10860	2.480	ug/L #	92

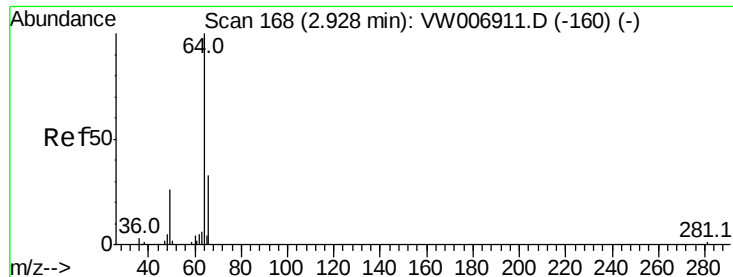
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#8

Chloroethane

Concen: 1.078 ug/L

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW006914.D

Acq: 16 Nov 2018 12:48

Instrument :

MSVOA_W

ClientSampled :

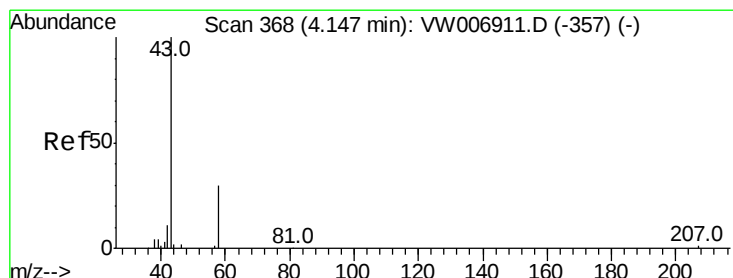
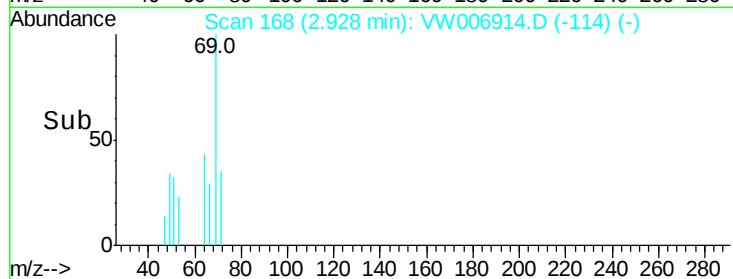
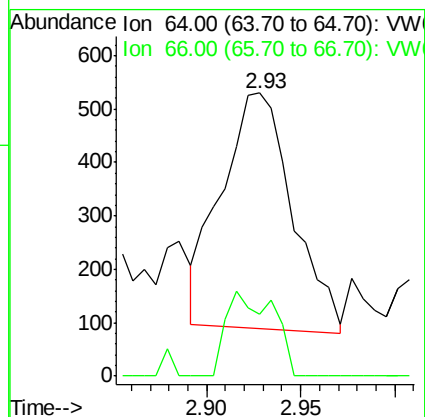
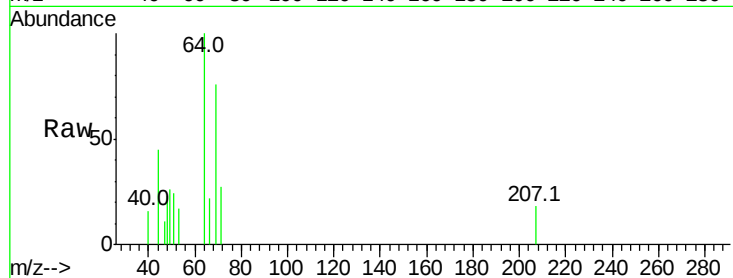
ETOA7

Tgt Ion: 64 Resp: 1154

Ion Ratio Lower Upper

64 100

66 22.1 20.8 38.6



#13

Acetone

Concen: 16.615 ug/L

RT: 4.15 min Scan# 368

Delta R.T. 0.01 min

Lab File: VW006914.D

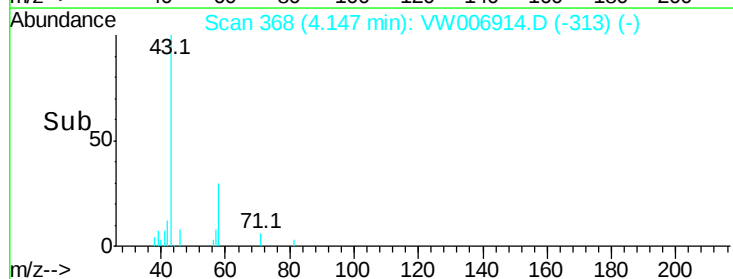
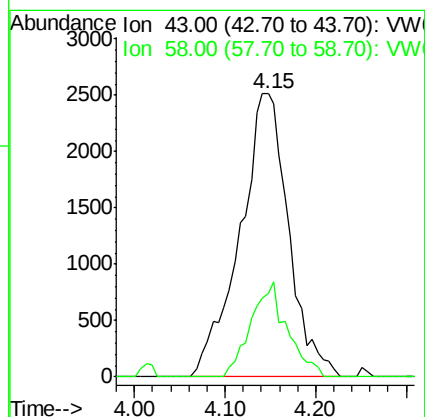
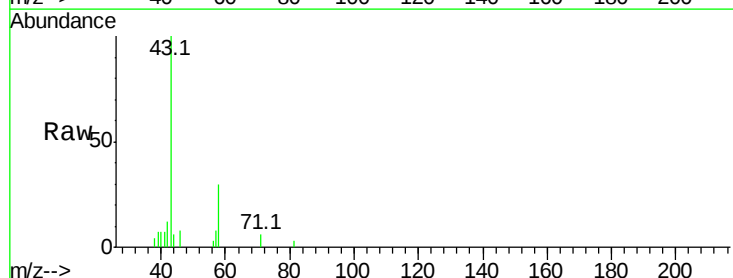
Acq: 16 Nov 2018 12:48

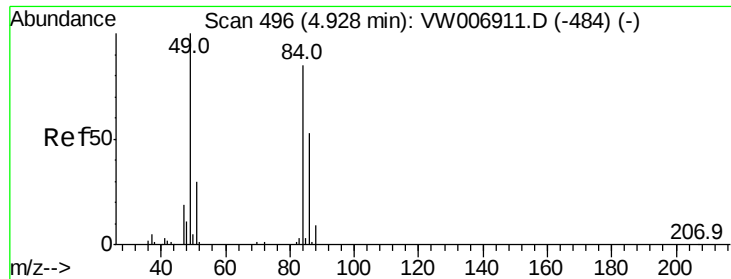
Tgt Ion: 43 Resp: 9392

Ion Ratio Lower Upper

43 100

58 24.9 0.0 65.6

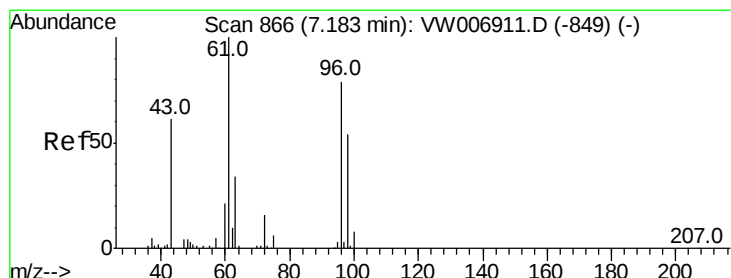
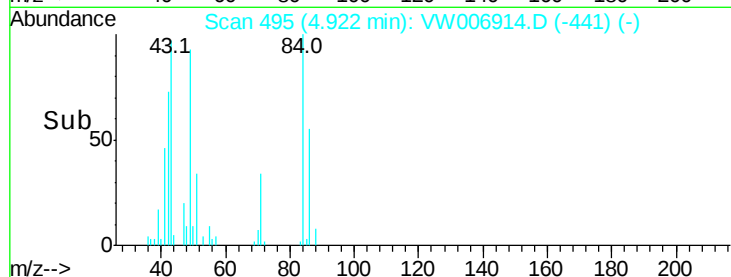
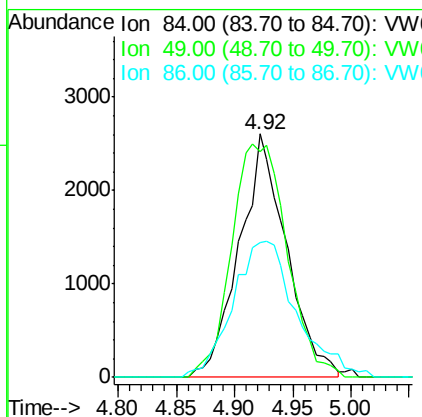
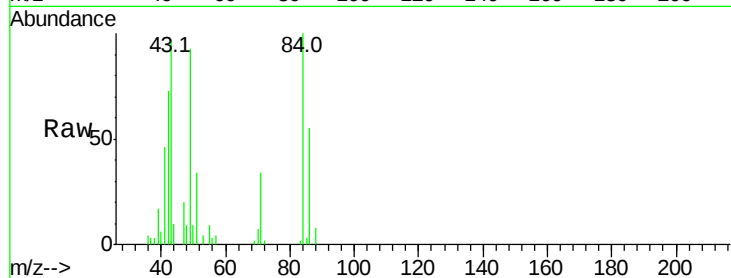




#16
Methylene chloride
Concen: 2.330 ug/L
RT: 4.92 min Scan# 495
Delta R.T. 0.00 min
Lab File: VW006914.D
Acq: 16 Nov 2018 12:48

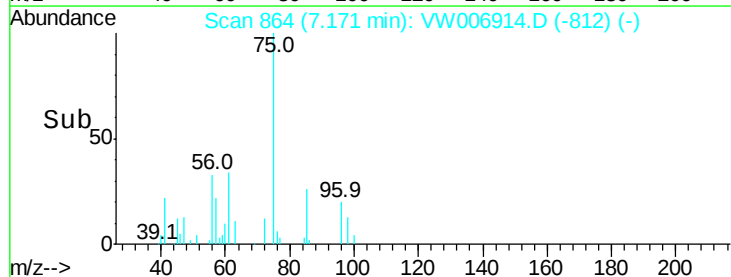
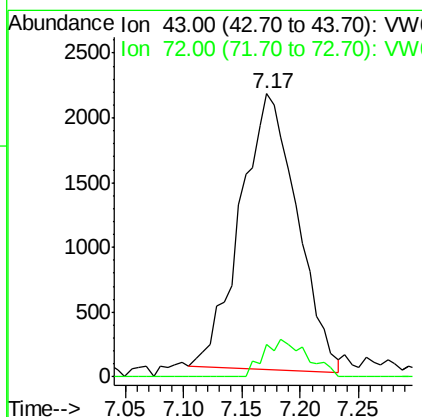
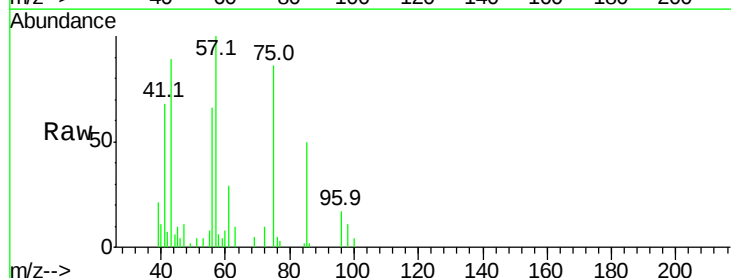
Instrument :
MSVOA_W
ClientSampled :
ETOA7

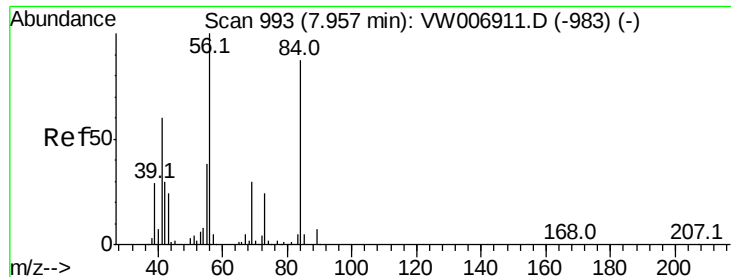
Tgt Ion: 84 Resp: 7306
Ion Ratio Lower Upper
84 100
49 92.7 79.3 147.3
86 55.3 43.5 80.9



#21
2-Butanone
Concen: 7.382 ug/L
RT: 7.17 min Scan# 864
Delta R.T. -0.01 min
Lab File: VW006914.D
Acq: 16 Nov 2018 12:48

Tgt Ion: 43 Resp: 7200
Ion Ratio Lower Upper
43 100
72 7.2 13.5 40.5#

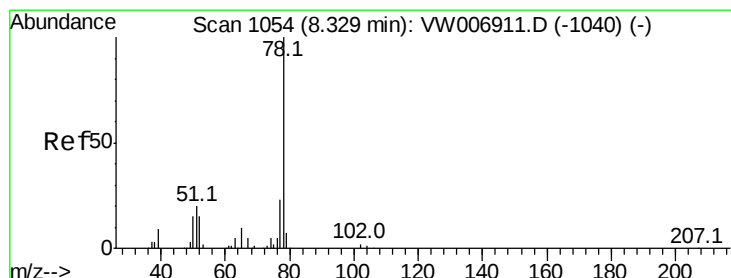
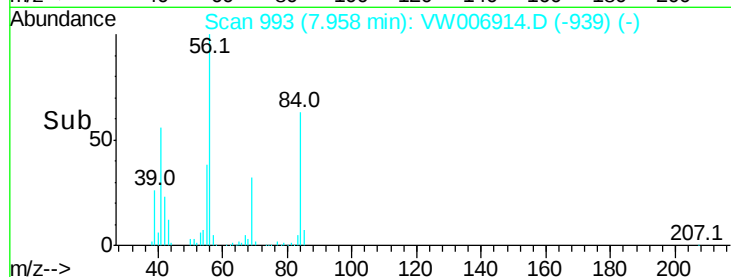
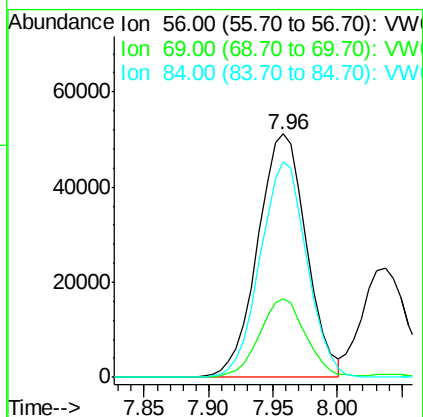
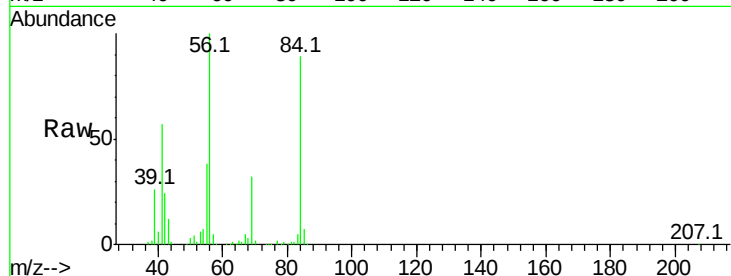




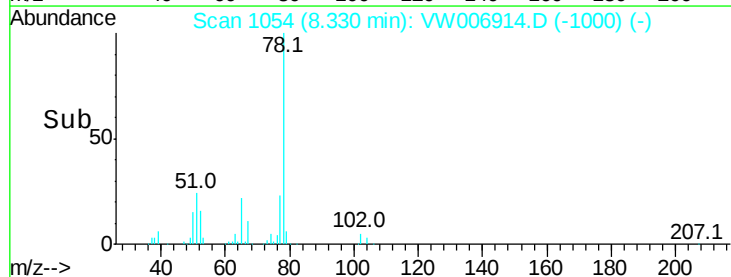
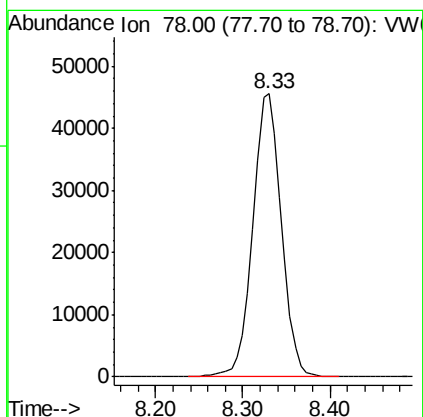
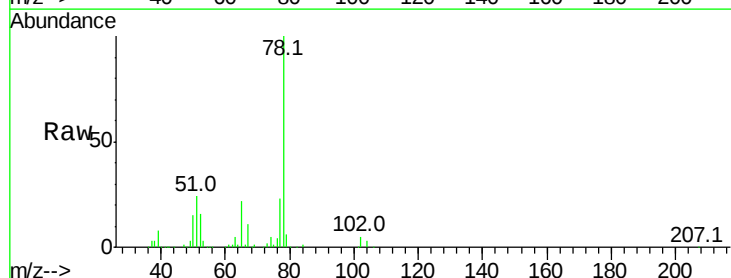
#30
Cyclohexane
Concen: 34.802 ug/L
RT: 7.96 min Scan# 993
Delta R.T. 0.00 min
Lab File: VW006914.D
Acq: 16 Nov 2018 12:48

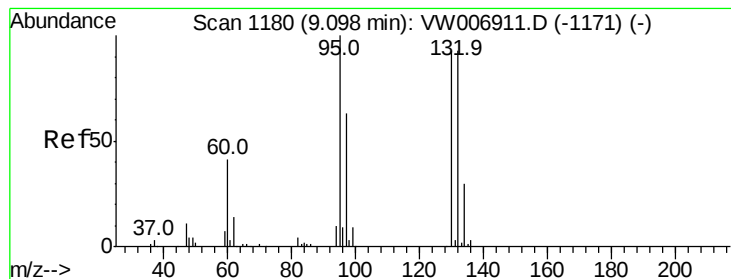
Instrument :
MSVOA_W
ClientSampleId :
ETOA7

Tgt Ion: 56 Resp: 134196
Ion Ratio Lower Upper
56 100
69 30.6 25.1 37.7
84 84.8 68.7 103.1



#34
Benzene
Concen: 12.664 ug/L
RT: 8.33 min Scan# 1054
Delta R.T. 0.00 min
Lab File: VW006914.D
Acq: 16 Nov 2018 12:48
Tgt Ion: 78 Resp: 103002





#35

Trichloroethene

Concen: 0.367 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW006914.D

Acq: 16 Nov 2018 12:48

Instrument :

MSVOA_W

ClientSampleId :

ETOA7

Tgt Ion: 95 Resp: 812

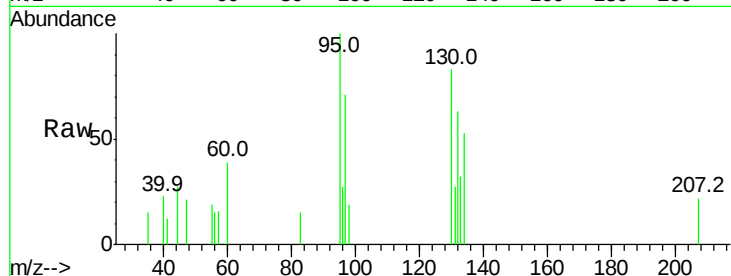
Ion Ratio Lower Upper

95 100

97 67.5 45.1 83.9

132 101.6 65.7 121.9

130 95.7 68.7 127.7



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

600

400

200

0

Time-->

9.05

9.10

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21.05

21.10

21.15

21.20

21.25

21.30

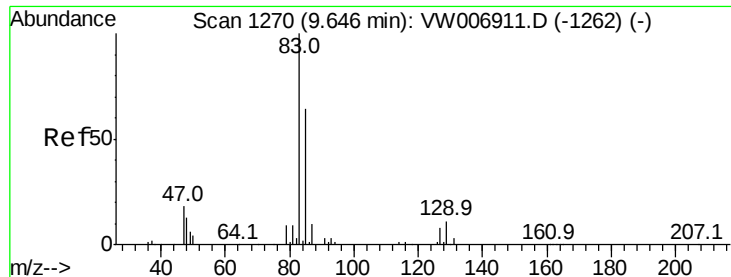
21.35

21.40

21.45

21.50

21.55



#41

Bromodichloromethane

Concen: 1.630 ug/L

RT: 9.61 min Scan# 1264

Delta R.T. -0.04 min

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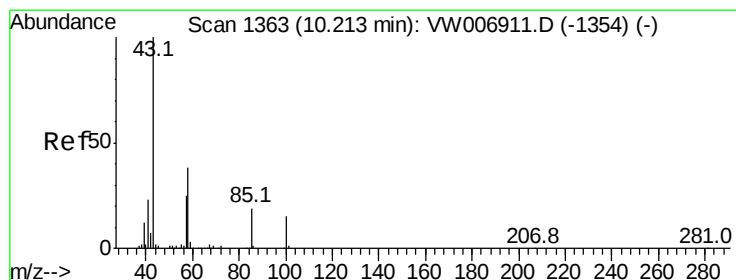
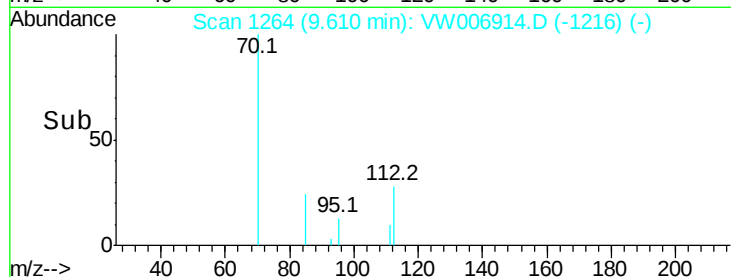
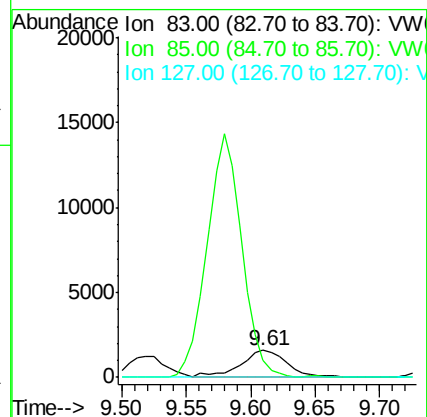
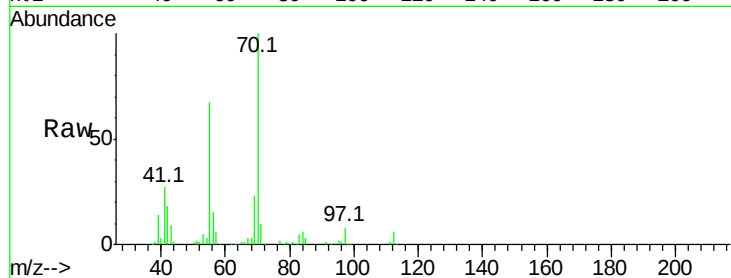
Tgt Ion: 83 Resp: 4008

Ion Ratio Lower Upper

83 100

85 65.3 42.4 78.6

127 0.0 6.5 9.7#



#43

4-Methyl-2-pentanone

Concen: 5.605 ug/L

RT: 10.25 min Scan# 1369

Delta R.T. 0.04 min

Lab File: VW006914.D

Acq: 16 Nov 2018 12:48

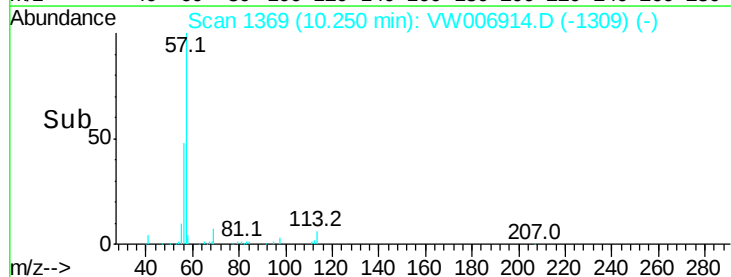
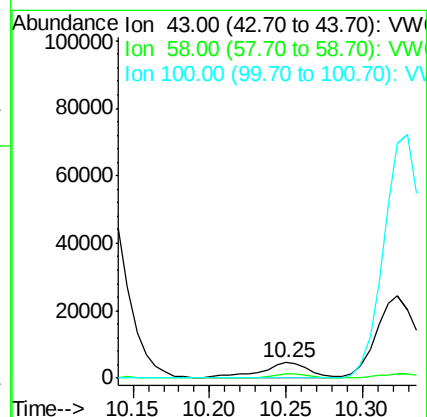
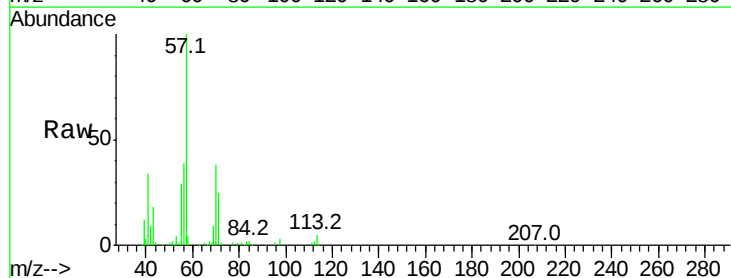
Tgt Ion: 43 Resp: 8801

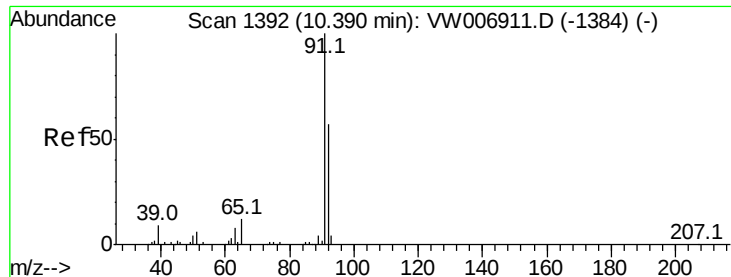
Ion Ratio Lower Upper

43 100

58 22.1 31.6 47.4#

100 0.0 12.3 18.5#





#44

Toluene

Concen: 1.153 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

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ClientSampleId :

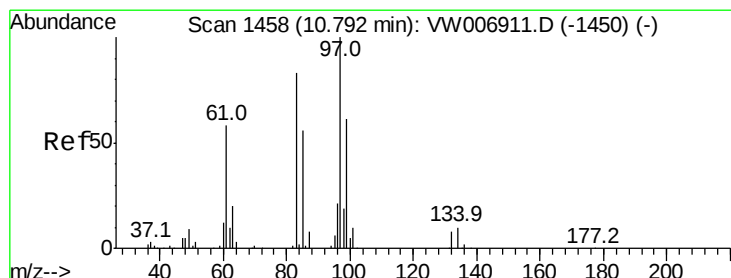
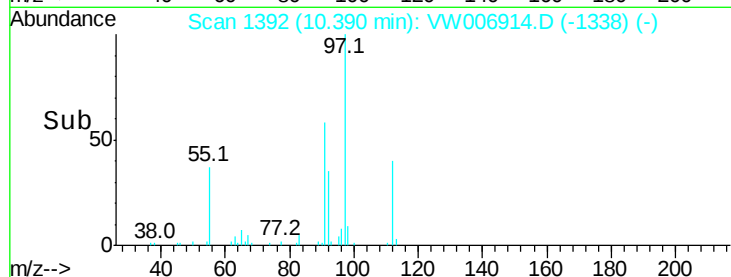
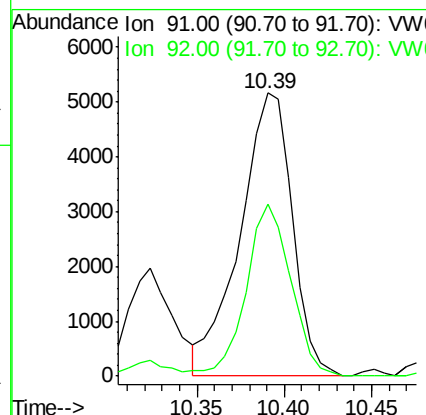
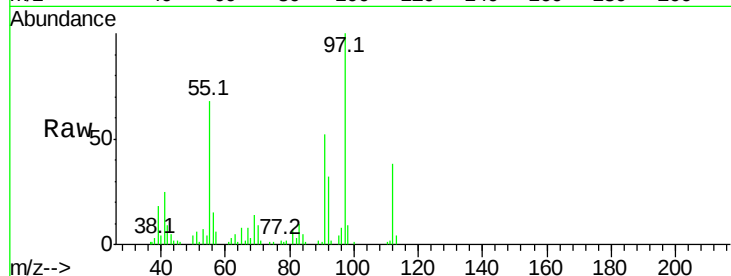
ETOA7

Tgt Ion: 91 Resp: 10738

Ion Ratio Lower Upper

91 100

92 60.9 40.5 75.3



#46

1,1,2-Trichloroethane

Concen: 138.377 ug/L

RT: 10.76 min Scan# 1453

Delta R.T. -0.02 min

Lab File: VW006914.D

Acq: 16 Nov 2018 12:48

Tgt Ion: 97 Resp: 212297

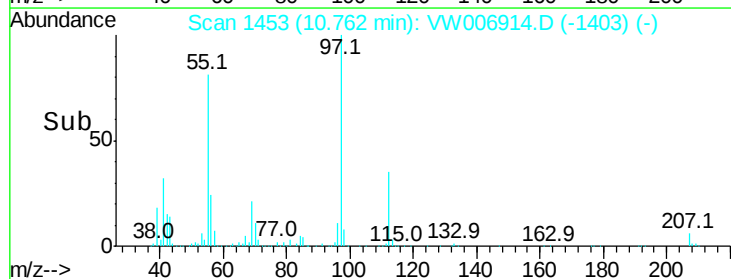
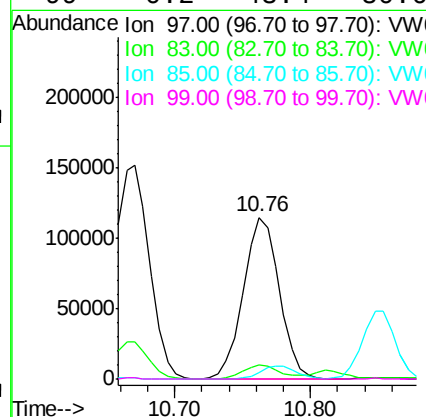
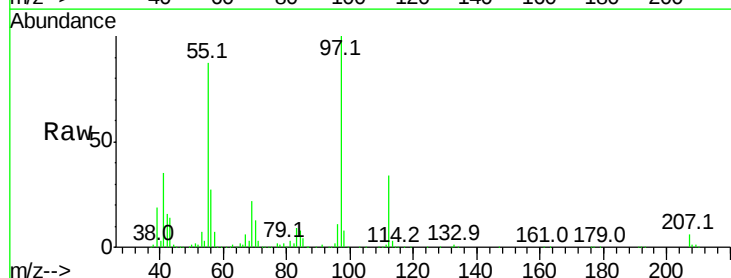
Ion Ratio Lower Upper

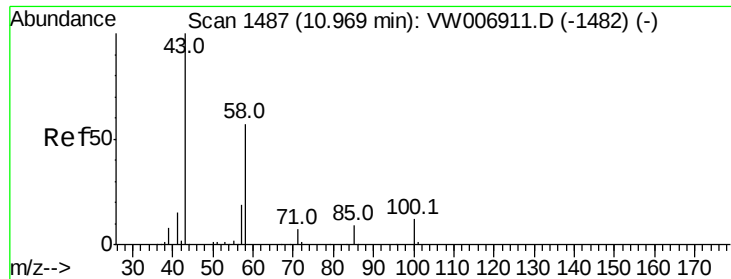
97 100

83 8.5 59.6 110.8#

85 4.1 37.7 70.1#

99 0.2 43.4 80.6#

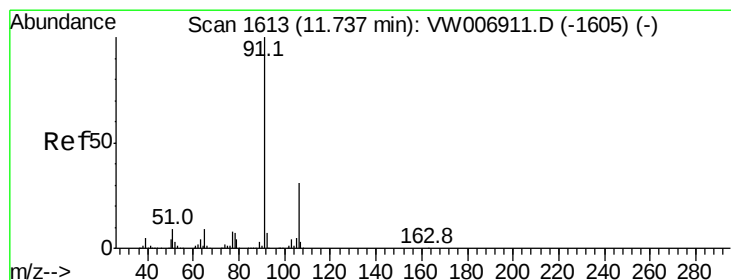
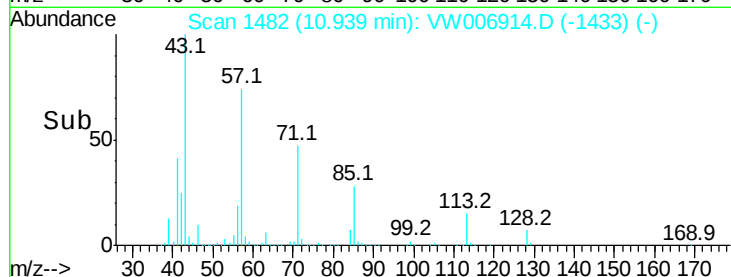
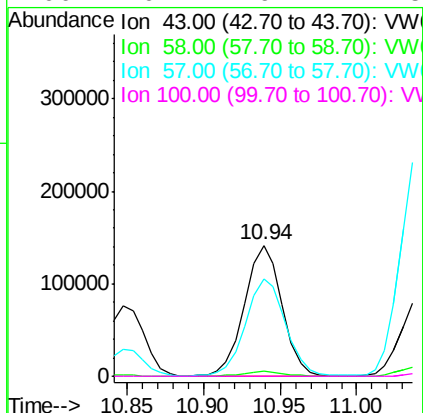
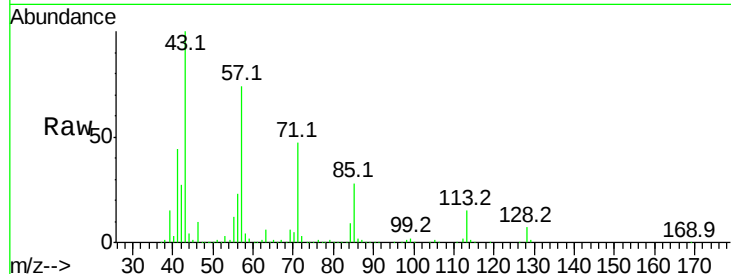




#49
2-Hexanone
Concen: 205.835 ug/L
RT: 10.94 min Scan# 1482
Delta R.T. -0.03 min
Lab File: VW006914.D
Acq: 16 Nov 2018 12:48

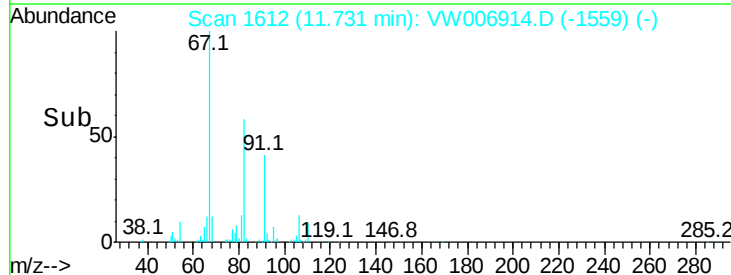
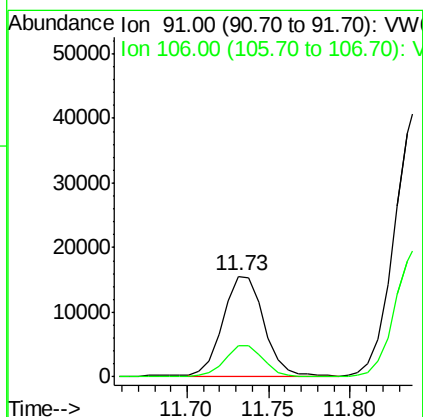
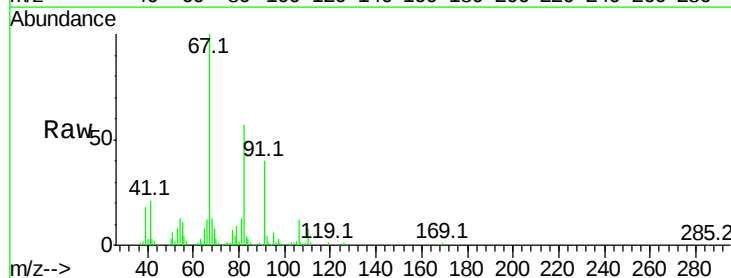
Instrument :
MSVOA_W
ClientSampleId :
ETOA7

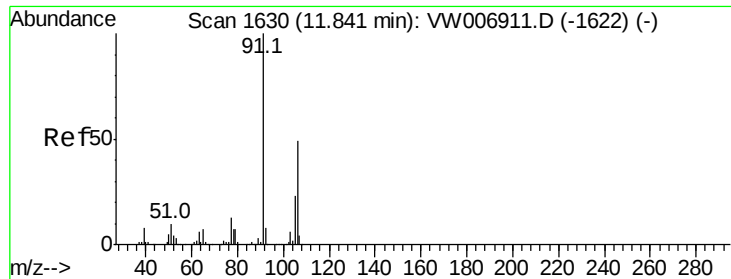
Tgt Ion: 43 Resp: 239285
Ion Ratio Lower Upper
43 100
58 4.0 44.6 67.0#
57 78.5 16.0 24.0#
100 0.2 9.7 14.5#



#53
Ethylbenzene
Concen: 2.441 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. -0.01 min
Lab File: VW006914.D
Acq: 16 Nov 2018 12:48

Tgt Ion: 91 Resp: 27057
Ion Ratio Lower Upper
91 100
106 30.9 21.1 39.1





#54

m,p-Xylene

Concen: 9.121 ug/L

RT: 11.84 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VW006914.D

Acq: 16 Nov 2018 12:48

Instrument :

MSVOA_W

ClientSampleId :

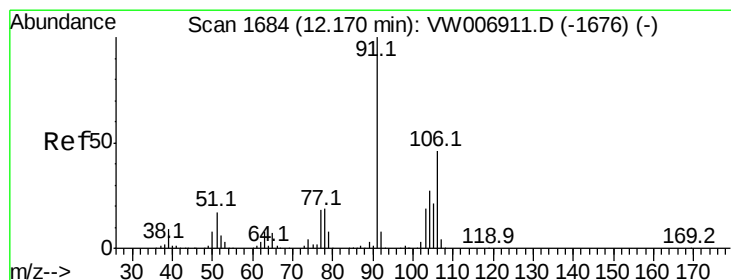
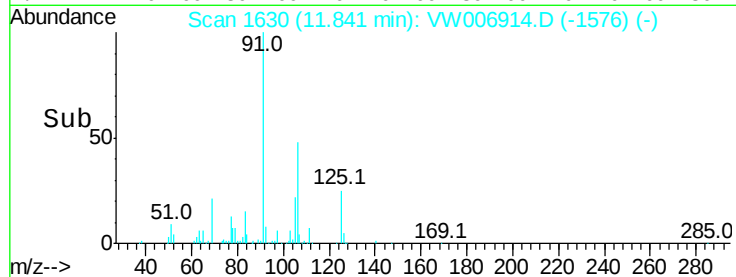
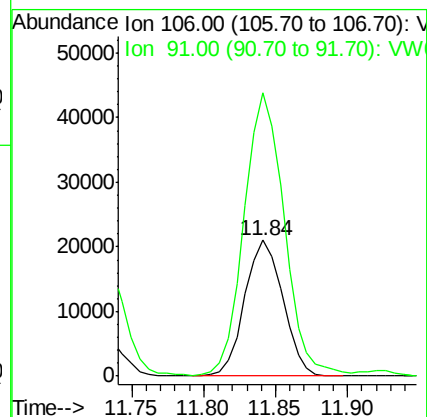
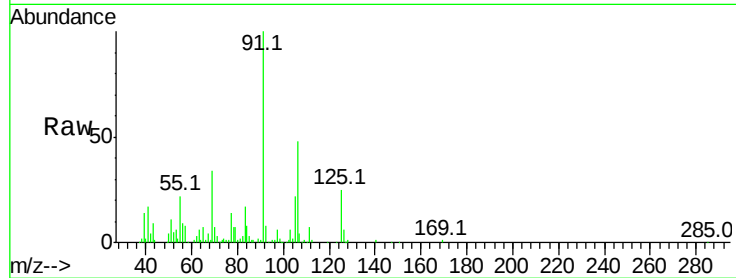
ETOA7

Tgt Ion:106 Resp: 38666

Ion Ratio Lower Upper

106 100

91 208.8 141.5 262.9



#55

o-xylene

Concen: 2.773 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VW006914.D

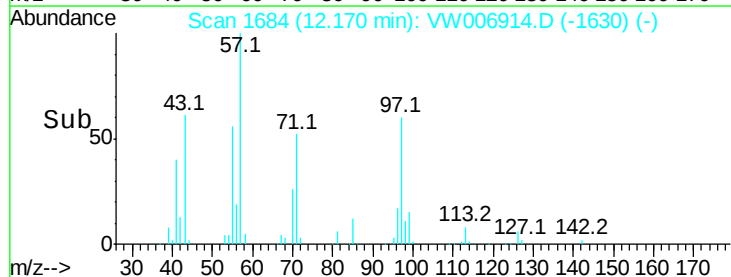
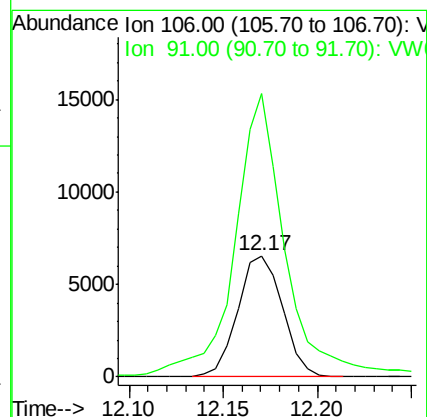
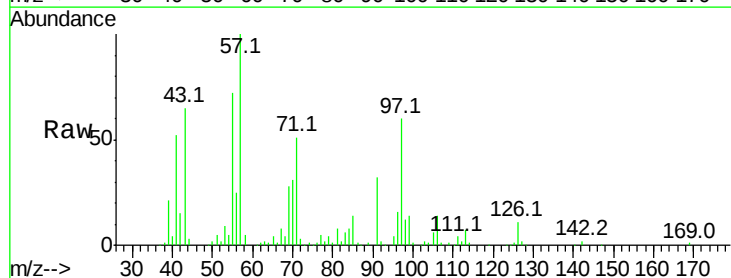
Acq: 16 Nov 2018 12:48

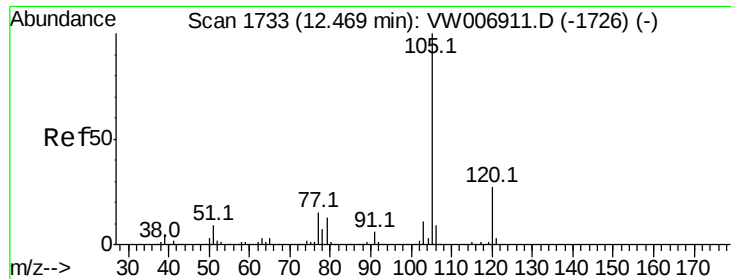
Tgt Ion:106 Resp: 10769

Ion Ratio Lower Upper

106 100

91 233.7 151.3 281.1





#57

Isopropylbenzene

Concen: 9.419 ug/L

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW006914.D

Acq: 16 Nov 2018 12:48

Instrument :

MSVOA_W

ClientSampled :

ETOA7

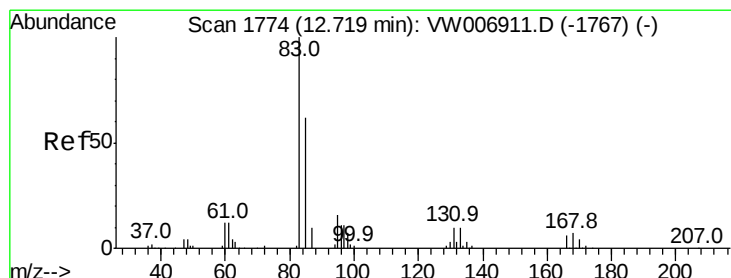
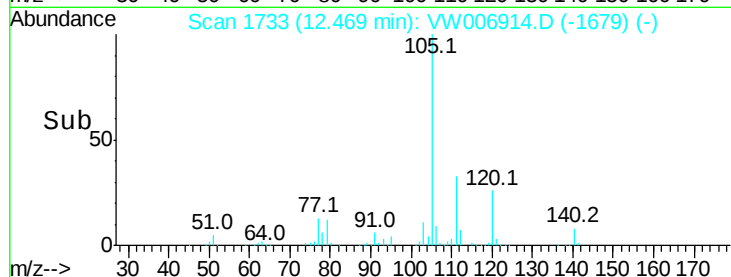
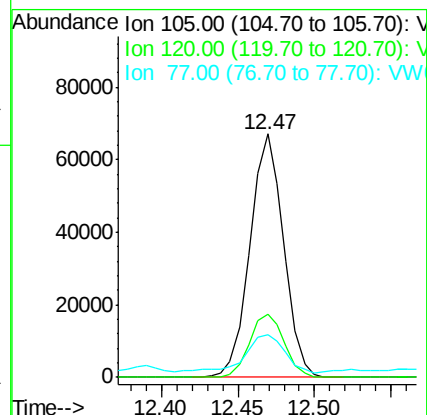
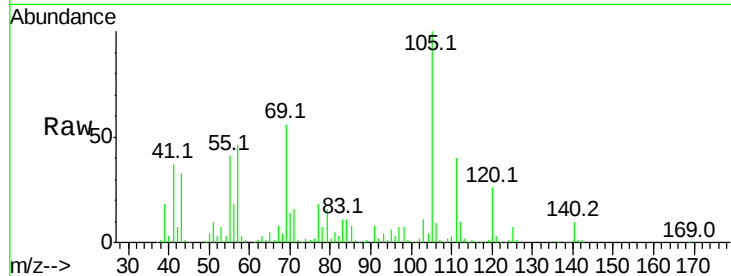
Tgt Ion: 105 Resp: 102391

Ion Ratio Lower Upper

105 100

120 26.7 20.7 31.1

77 17.8 12.3 18.5



#58

1,1,2,2-Tetrachloroethane

Concen: 2.287 ug/L

RT: 12.75 min Scan# 1779

Delta R.T. 0.03 min

Lab File: VW006914.D

Acq: 16 Nov 2018 12:48

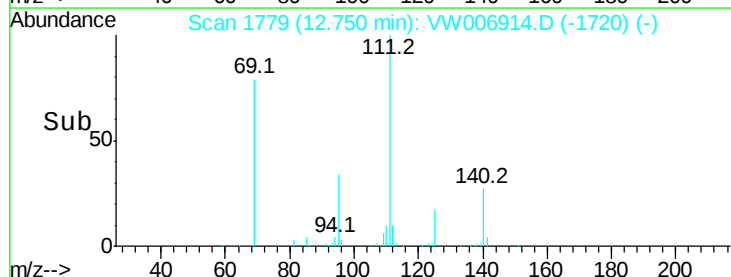
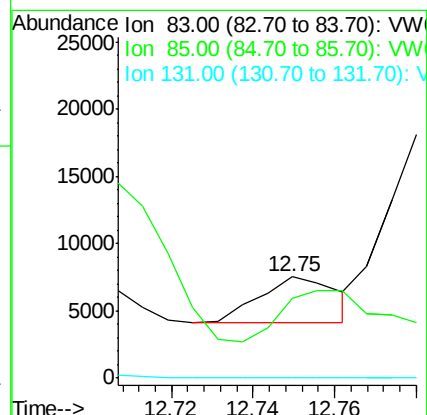
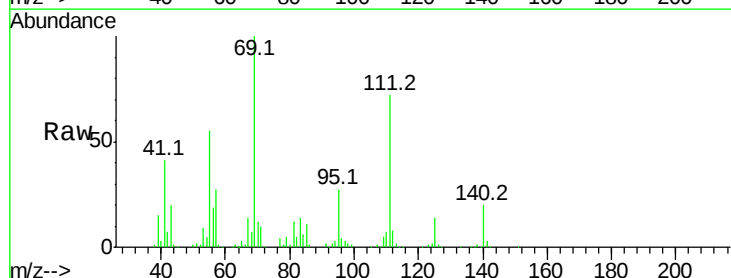
Tgt Ion: 83 Resp: 4452

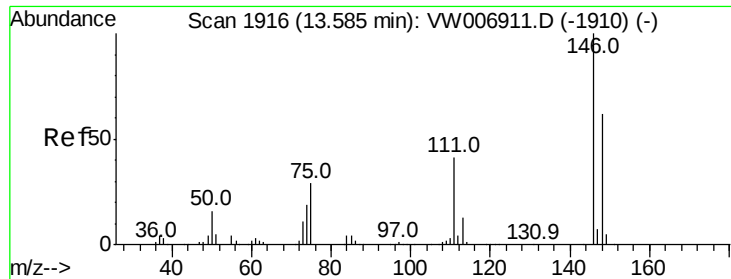
Ion Ratio Lower Upper

83 100

85 78.5 44.4 82.5

131 0.0 8.0 12.0#





#64

1,4-Dichlorobenzene

Concen: 0.565 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.01 min

Lab File: VW006914.D

Acq: 16 Nov 2018 12:48

Instrument :

MSVOA_W

ClientSampleId :

ETOA7

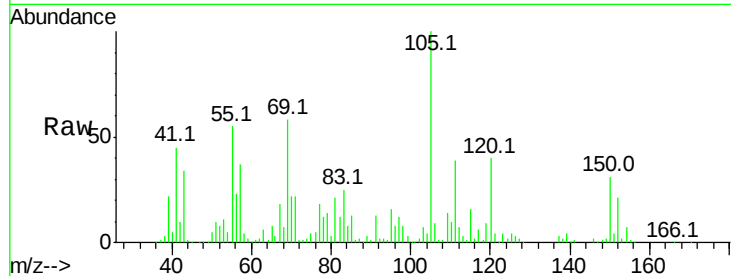
Tgt Ion:146 Resp: 1862

Ion Ratio Lower Upper

146 100

111 2036.1 28.8 53.4#

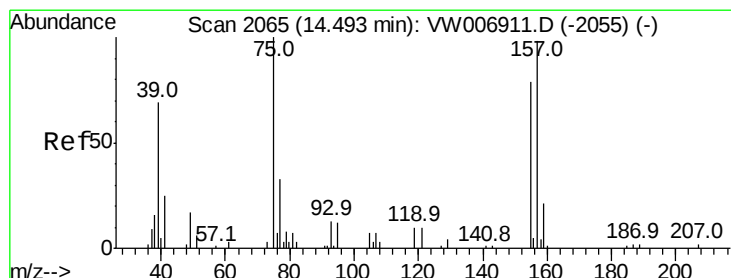
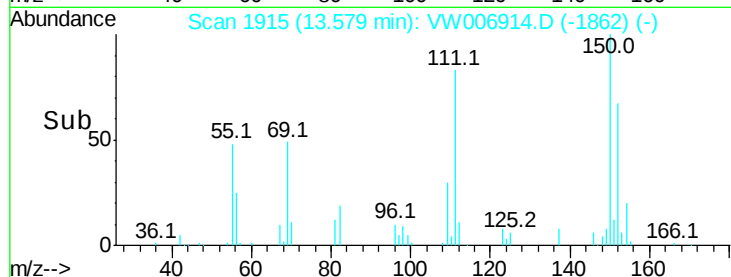
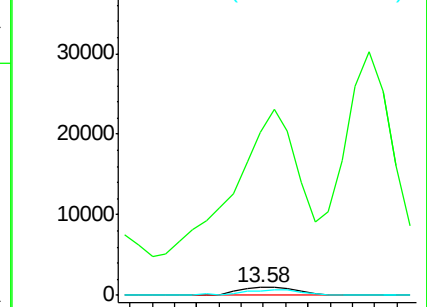
148 60.6 43.2 80.2



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 10.582 ug/L

RT: 14.46 min Scan# 2060

Delta R.T. -0.03 min

Lab File: VW006914.D

Acq: 16 Nov 2018 12:48

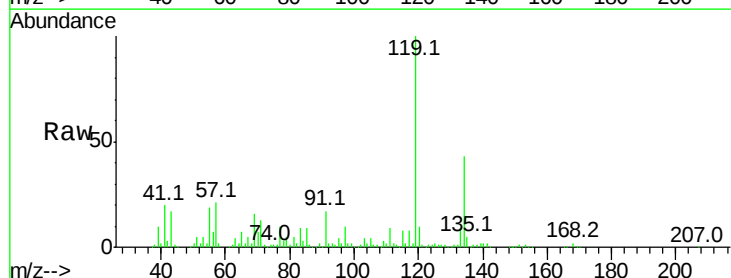
Tgt Ion: 75 Resp: 2911

Ion Ratio Lower Upper

75 100

157 0.0 85.0 127.6#

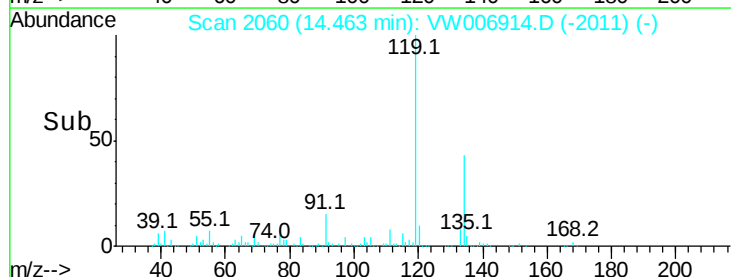
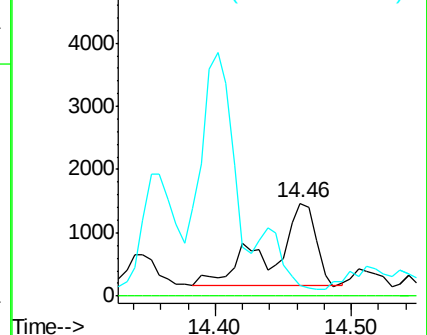
155 11.9 67.7 101.5#

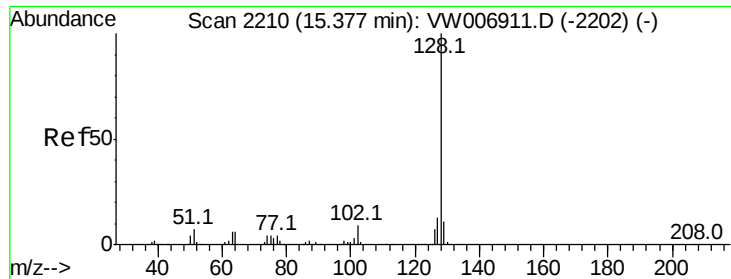


Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V





#69

Naphthalene

Concen: 2.480 ug/L

RT: 15.38 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VW006914.D

Acq: 16 Nov 2018 12:48

Instrument :

MSVOA_W

ClientSampleId :

ETOA7

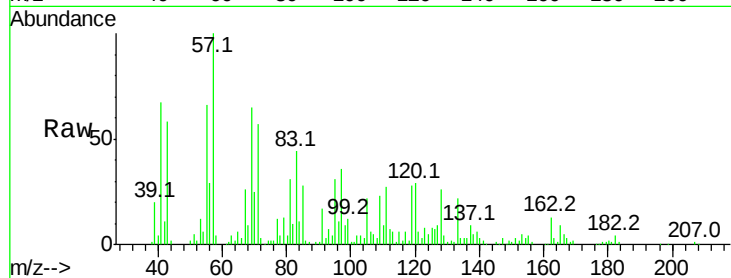
Tgt Ion:128 Resp: 10860

Ion Ratio Lower Upper

128 100

129 11.0 8.9 13.3

127 19.3 10.6 15.8#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

