

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120419\
 Data File : VX013757.D
 Acq On : 04 Dec 2019 18:14
 Operator : JC/SP
 Sample : K6098-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OWL-C4-GW

Quant Time: Dec 05 00:58:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 26 15:53:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	681229	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1025685	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	915712	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	432274	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	372019	47.05	ug/l	0.00
Spiked Amount			Recovery	=	94.10%	
35) Dibromofluoromethane	5.49	113	306528	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
50) Toluene-d8	8.71	98	1216226	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	
62) 4-Bromofluorobenzene	11.14	95	422887	47.47	ug/l	0.00
Spiked Amount			Recovery	=	94.94%	

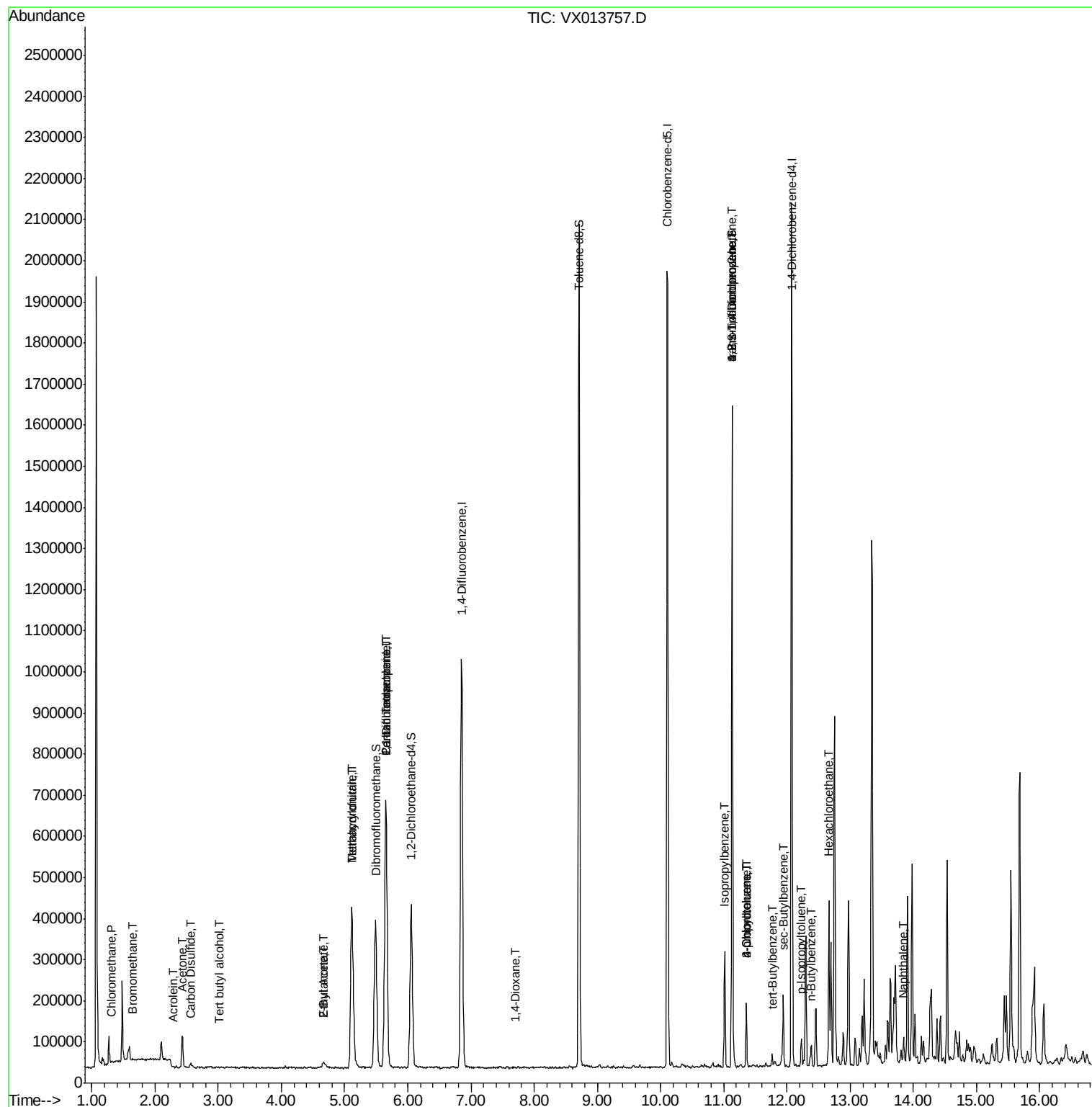
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2773	0.326	ug/l #	73
5) Bromomethane	1.64	94	1546	0.240	ug/l #	67
11) Tert butyl alcohol	3.01	59	699	0.358	ug/l #	64
13) Acrolein	2.28	56	402	6.304	ug/l	89
16) Acetone	2.43	43	86566	22.173	ug/l	99
17) Carbon Disulfide	2.56	76	13972	0.756	ug/l	96
25) 2-Butanone	4.67	43	27056	4.663	ug/l	97
29) Tetrahydrofuran	5.11	42	370241	103.510	ug/l	100
36) 1,1-Dichloropropene	5.65	75	43439	4.666	ug/l #	51
37) Ethyl Acetate	4.67	43	27769	2.659	ug/l #	69
38) Carbon Tetrachloride	5.65	117	60069	6.997	ug/l #	17
41) Methacrylonitrile	5.11	41	211630	36.945	ug/l #	46
49) 1,4-Dioxane	7.70	88	540	2.887	ug/l	91
73) Isopropylbenzene	11.01	105	147017	4.848	ug/l	100
76) 1,2,3-Trichloropropane	11.13	75	204799	21.064	ug/l #	39
78) n-propylbenzene	11.35	91	98516	2.910	ug/l	99
79) 2-Chlorotoluene	11.35	91	98577	4.855	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	204799	57.628	ug/l #	11
82) 4-Chlorotoluene	11.35	91	98577	4.192	ug/l #	43
83) tert-Butylbenzene	11.77	119	11718	0.464	ug/l	81
85) sec-Butylbenzene	11.94	105	92796	3.217	ug/l	88
86) p-Isopropyltoluene	12.23	119	31731	1.182	ug/l	96
89) n-Butylbenzene	12.39	91	21724	0.949	ug/l	93
90) Hexachloroethane	12.67	117	18297	3.772	ug/l #	6
95) Naphthalene	13.84	128	8435	0.288	ug/l #	72

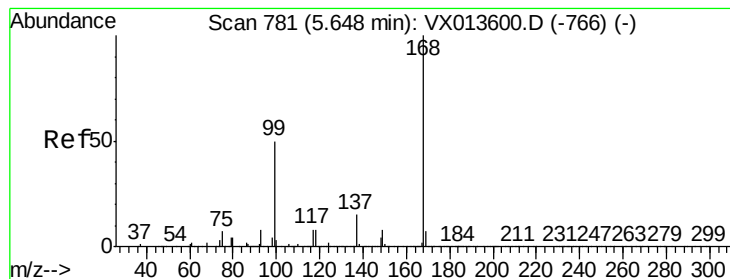
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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ClientSampleId :
OWL-C4-GW

Quant Time: Dec 05 00:58:50 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X112619W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 26 15:53:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013757.D

Acq: 04 Dec 2019 18:14

Instrument :

MSVOA_X

ClientSampled :

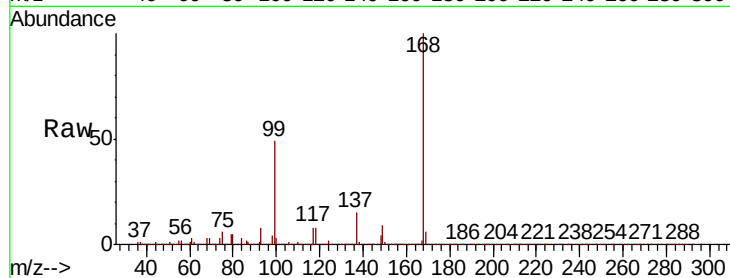
OWL-C4-GW

Tot Ion:168 Resp: 681229

Ion Ratio Lower Upper

168 100

99 48.9 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

250000

200000

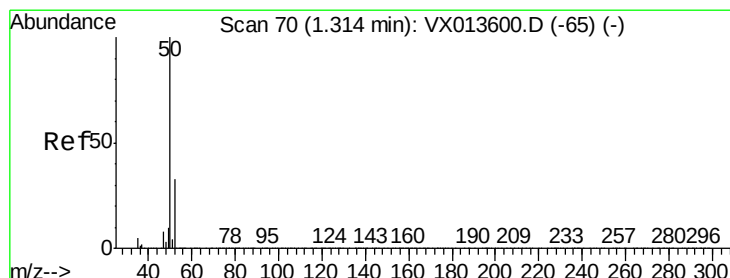
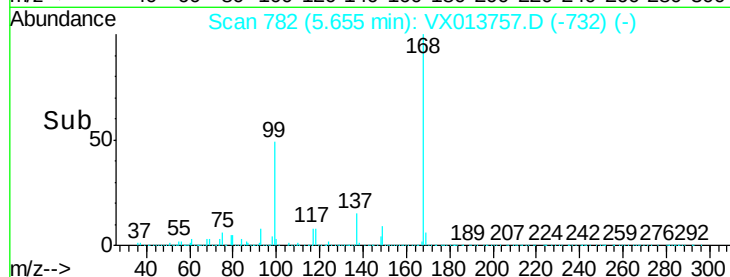
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.326 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013757.D

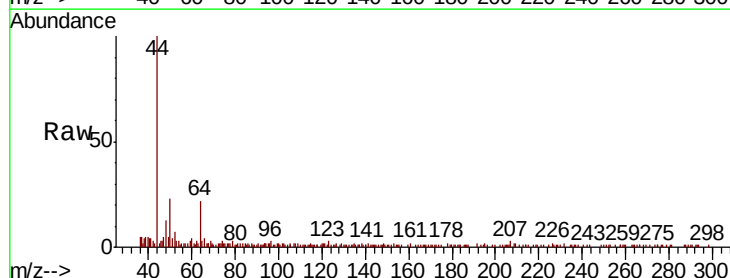
Acq: 04 Dec 2019 18:14

Tgt Ion: 50 Resp: 2773

Ion Ratio Lower Upper

50 100

52 17.2 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

2500

2000

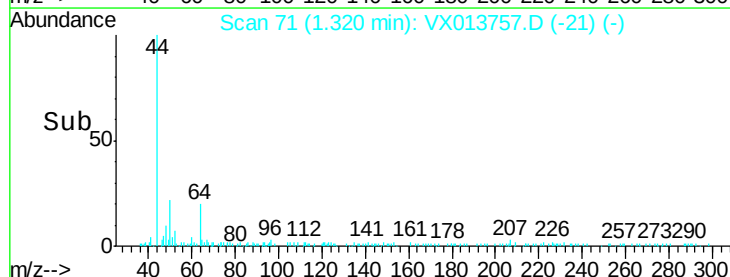
1500

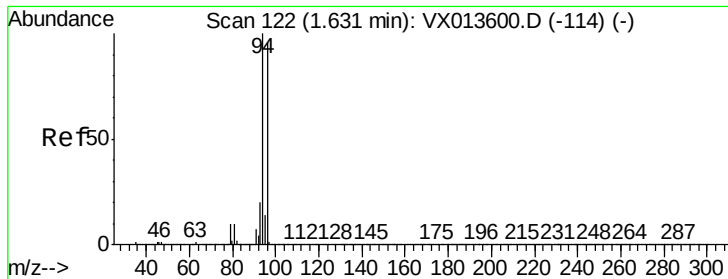
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.240 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013757.D

Acq: 04 Dec 2019 18:14

Instrument :

MSVOA_X

ClientSampled :

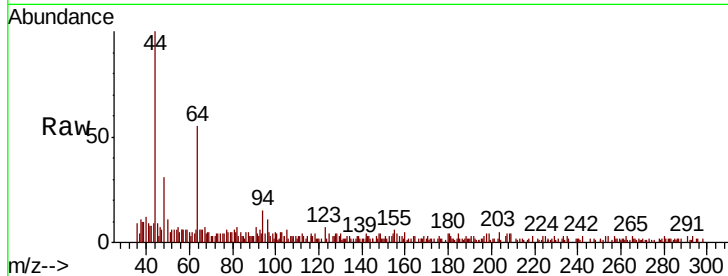
OWL-C4-GW

Tot Ion: 94 Resp: 1546

Ion Ratio Lower Upper

94 100

96 64.3 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1000

800

600

400

200

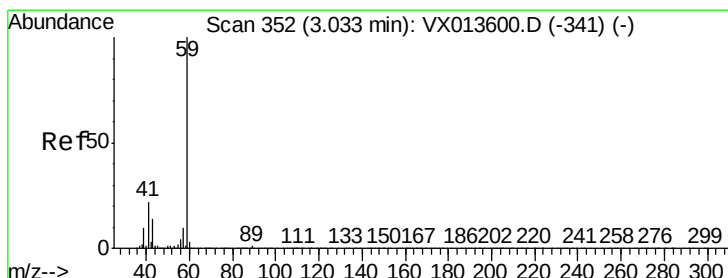
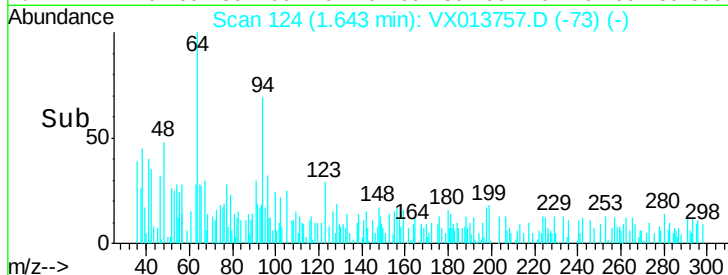
0

1.60

1.65

1.70

Time-->



#11

Tert butyl alcohol

Concen: 0.358 ug/l

RT: 3.01 min Scan# 349

Delta R.T. -0.02 min

Lab File: VX013757.D

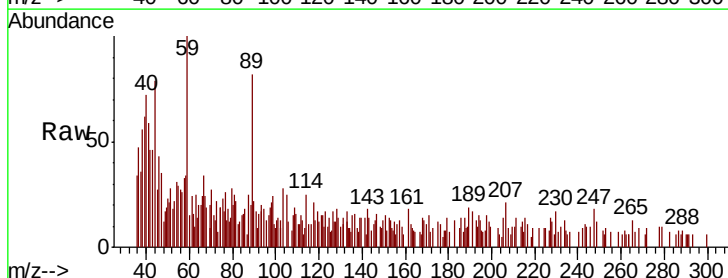
Acq: 04 Dec 2019 18:14

Tgt Ion: 59 Resp: 699

Ion Ratio Lower Upper

59 100

57 22.9 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

1200

1000

800

600

400

200

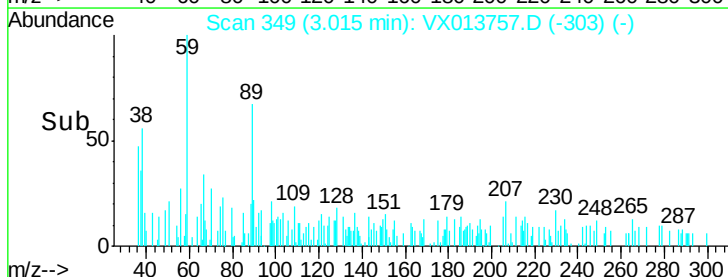
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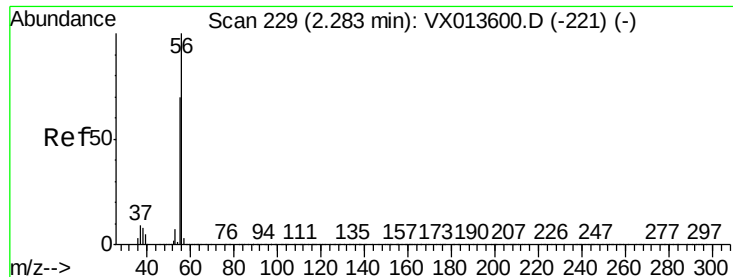
2.98

3.00

3.02

Time-->

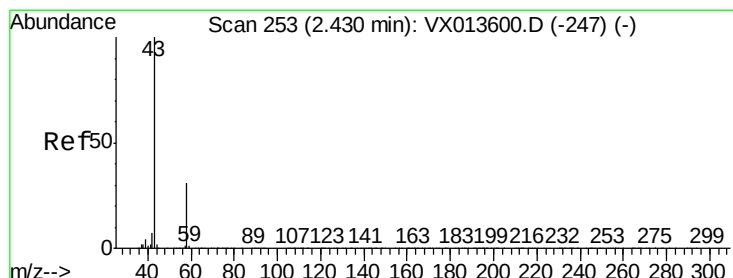
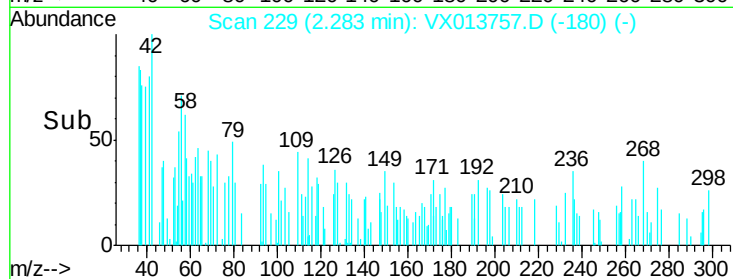
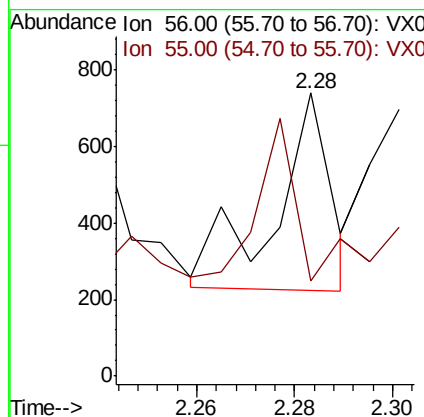
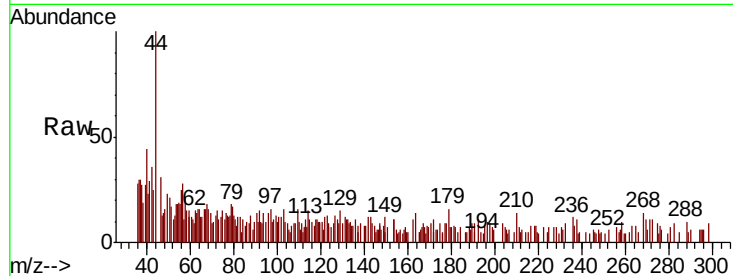




#13
Acrolein
Concen: 6.304 ug/l
RT: 2.28 min Scan# 229
Delta R.T. 0.00 min
Lab File: VX013757.D
Acq: 04 Dec 2019 18:14

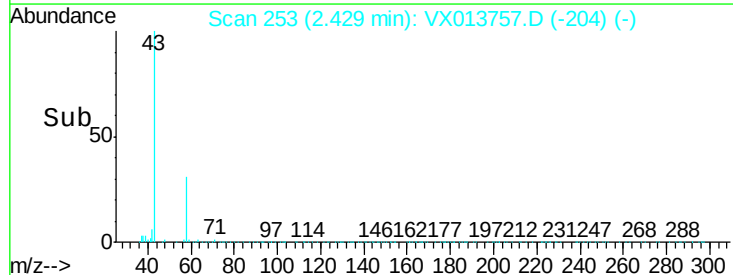
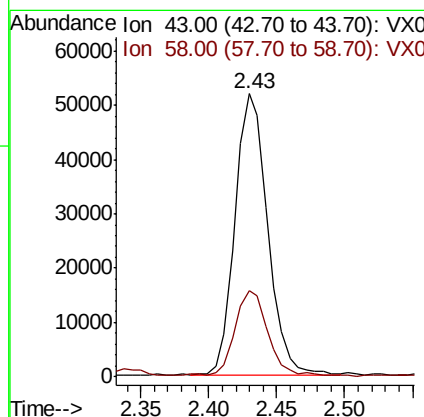
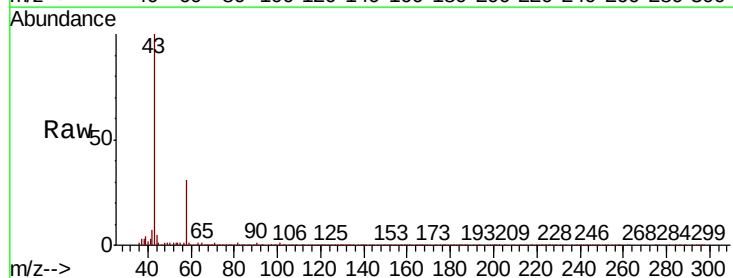
Instrument :
MSVOA_X
ClientSampled :
OWL-C4-GW

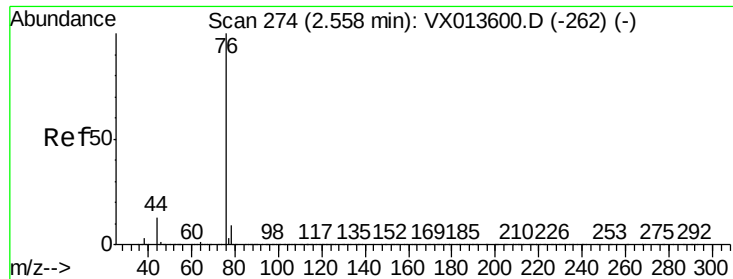
Tot Ion: 56 Resp: 402
Ion Ratio Lower Upper
56 100
55 60.9 56.2 84.4



#16
Acetone
Concen: 22.173 ug/l
RT: 2.43 min Scan# 253
Delta R.T. -0.00 min
Lab File: VX013757.D
Acq: 04 Dec 2019 18:14

Tgt Ion: 43 Resp: 86566
Ion Ratio Lower Upper
43 100
58 30.0 24.6 36.8

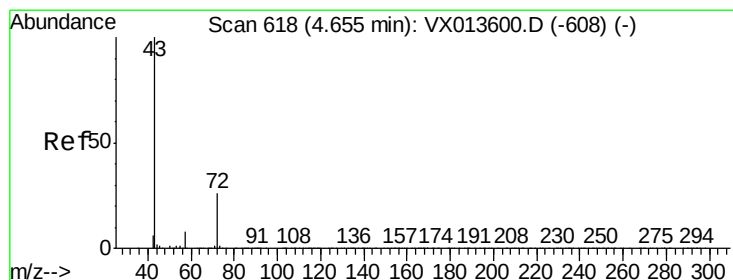
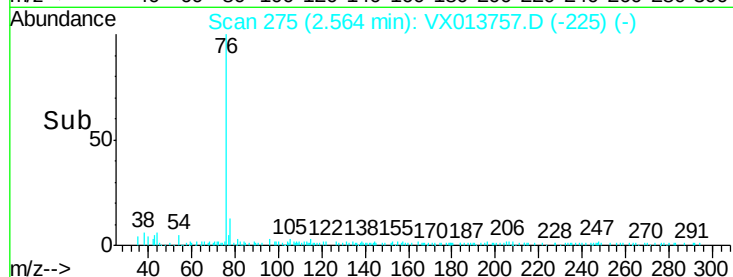
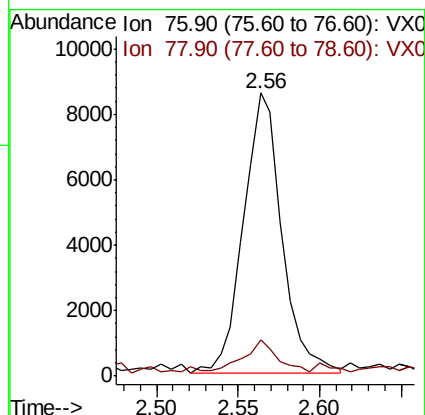
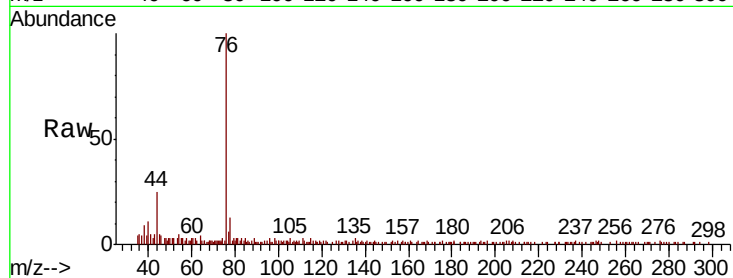




#17
Carbon Disulfide
Concen: 0.756 ug/l
RT: 2.56 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX013757.D
Acq: 04 Dec 2019 18:14

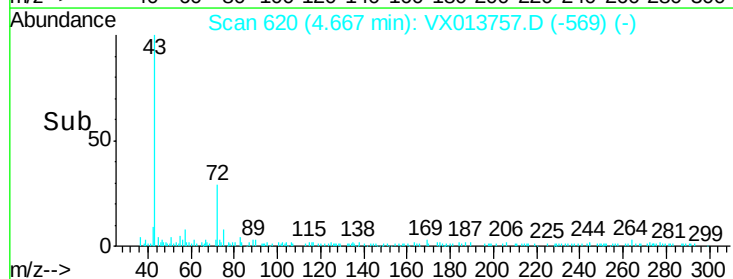
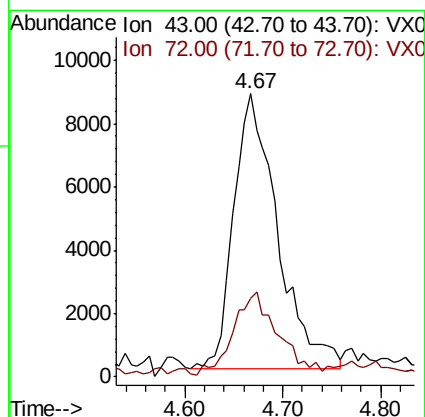
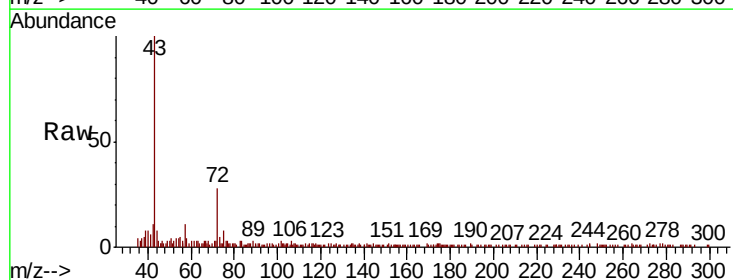
Instrument :
MSVOA_X
ClientSampleId :
OWL-C4-GW

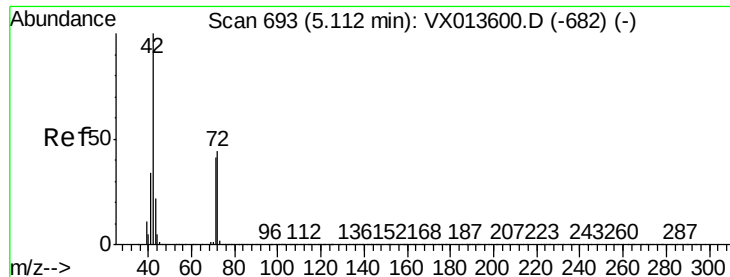
Tot Ion: 76 Resp: 13972
Ion Ratio Lower Upper
76 100
78 10.3 7.2 10.8



#25
2-Butanone
Concen: 4.663 ug/l
RT: 4.67 min Scan# 620
Delta R.T. 0.01 min
Lab File: VX013757.D
Acq: 04 Dec 2019 18:14

Tgt Ion: 43 Resp: 27056
Ion Ratio Lower Upper
43 100
72 27.3 20.6 31.0





#29

Tetrahydrofuran

Concen: 103.510 ug/l

RT: 5.11 min Scan# 693

Delta R.T. -0.00 min

Lab File: VX013757.D

Acq: 04 Dec 2019 18:14

Instrument :

MSVOA_X

ClientSampleId :

OWL-C4-GW

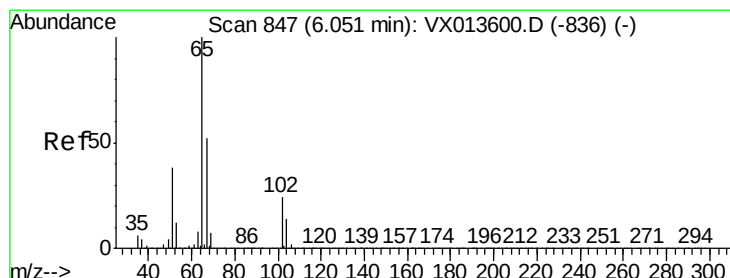
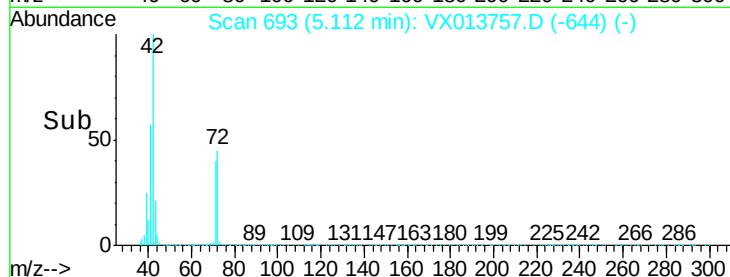
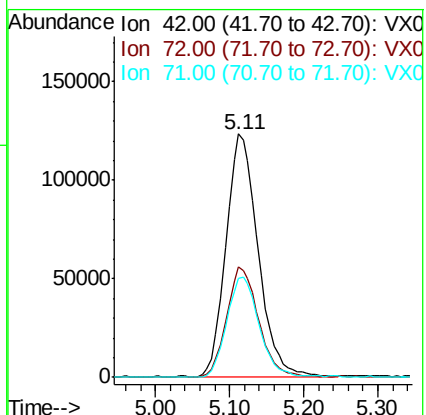
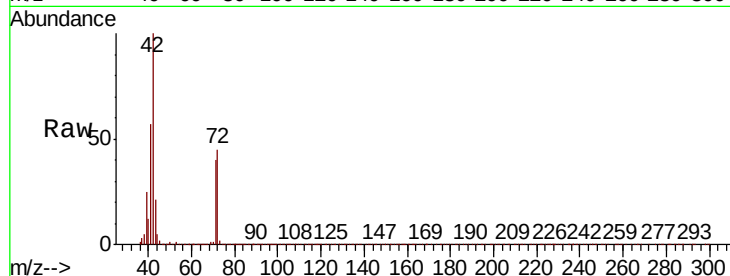
Tot Ion: 42 Resp: 370241

Ion Ratio Lower Upper

42 100

72 45.3 36.3 54.5

71 41.9 33.2 49.8



#33

1,2-Dichloroethane-d4

Concen: 47.046 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013757.D

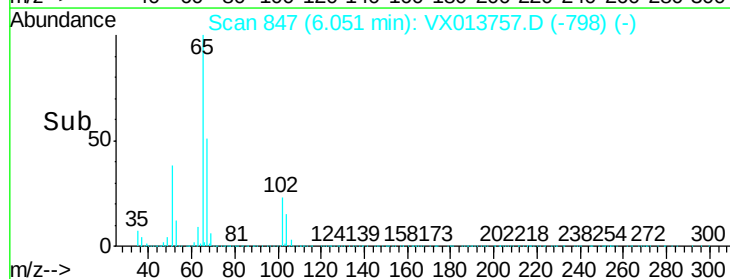
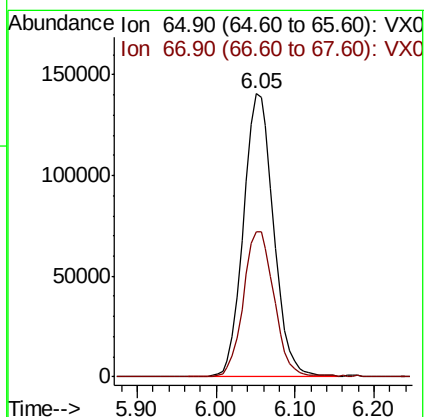
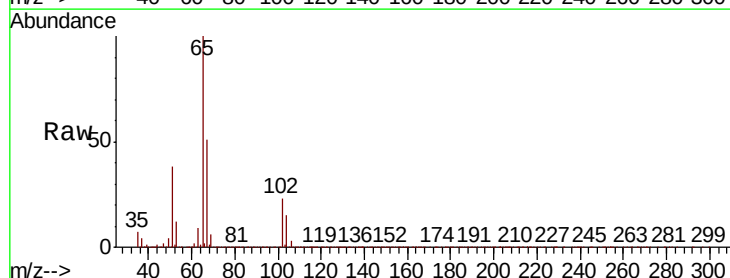
Acq: 04 Dec 2019 18:14

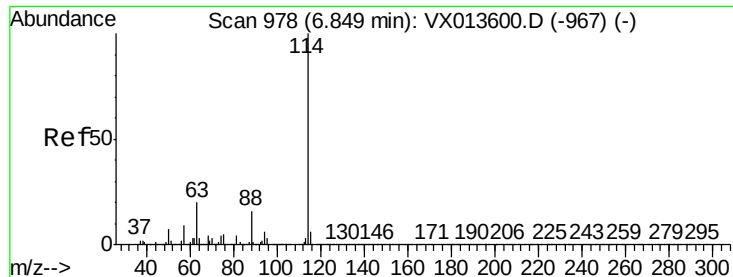
Tgt Ion: 65 Resp: 372019

Ion Ratio Lower Upper

65 100

67 51.9 0.0 104.4

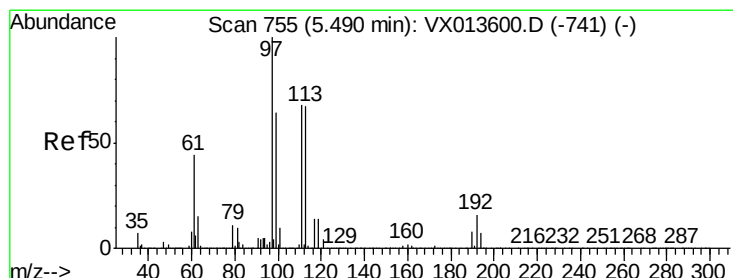
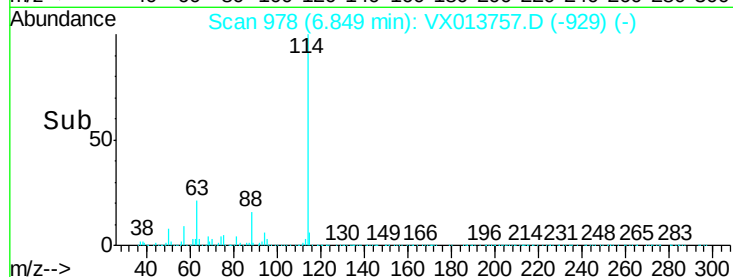
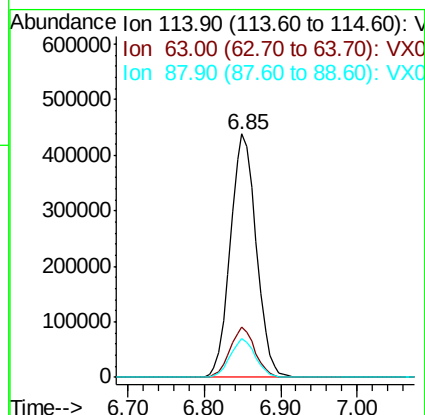
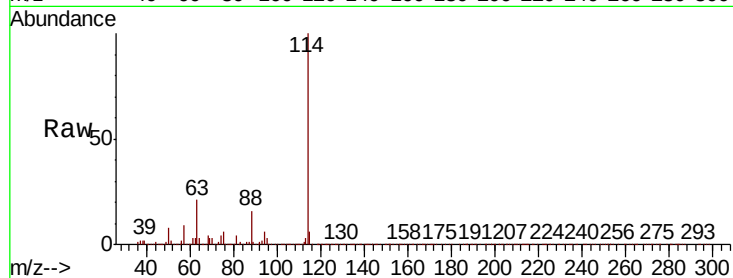




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. -0.00 min
Lab File: VX013757.D
Acq: 04 Dec 2019 18:14

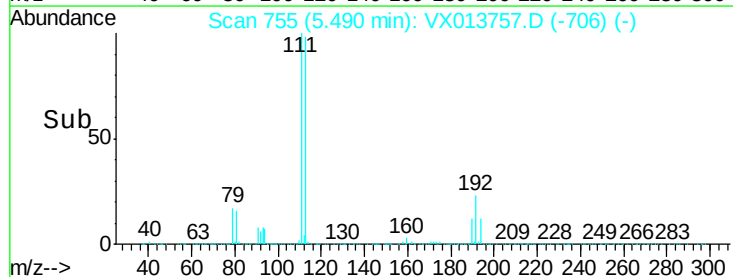
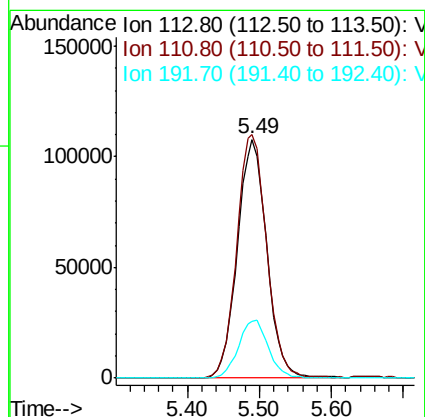
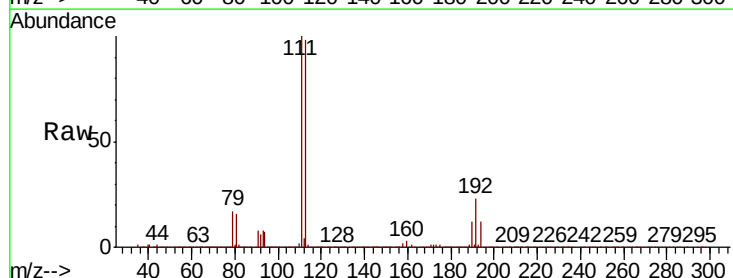
Instrument :
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OWL-C4-GW

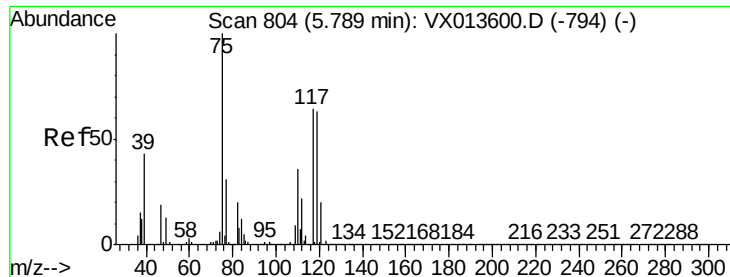
Tot Ion:114 Resp: 1025685
Ion Ratio Lower Upper
114 100
63 20.5 0.0 39.6
88 16.0 0.0 31.4



#35
Dibromofluoromethane
Concen: 48.341 ug/l
RT: 5.49 min Scan# 755
Delta R.T. -0.00 min
Lab File: VX013757.D
Acq: 04 Dec 2019 18:14

Tgt Ion:113 Resp: 306528
Ion Ratio Lower Upper
113 100
111 103.0 83.6 125.4
192 24.7 19.2 28.8





#36

1,1-Dichloropropene

Concen: 4.666 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013757.D

Acq: 04 Dec 2019 18:14

Instrument :

MSVOA_X

ClientSampleId :

OWL-C4-GW

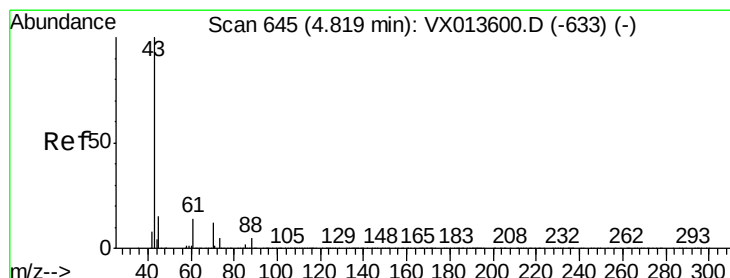
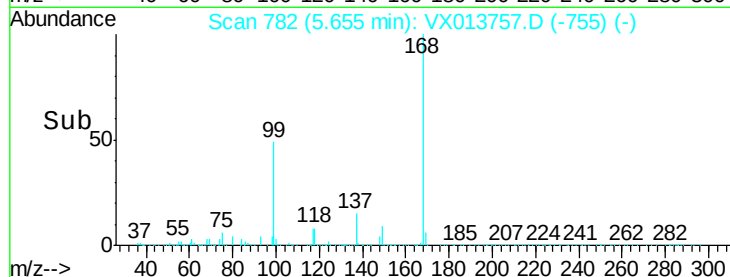
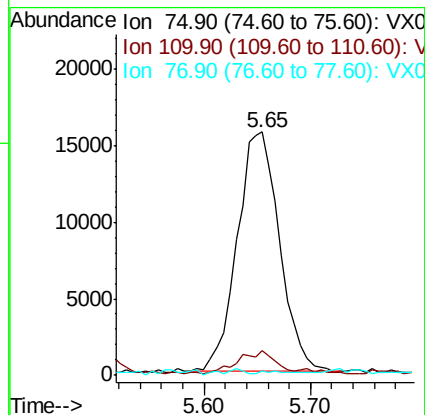
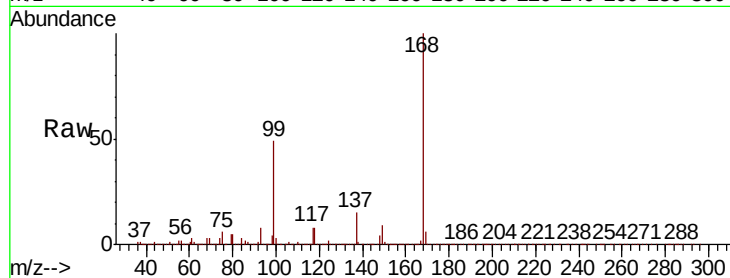
Tot Ion: 75 Resp: 43439

Ion Ratio Lower Upper

75 100

110 10.1 18.1 54.1#

77 0.6 24.5 36.7#



#37

Ethyl Acetate

Concen: 2.659 ug/l

RT: 4.67 min Scan# 620

Delta R.T. -0.15 min

Lab File: VX013757.D

Acq: 04 Dec 2019 18:14

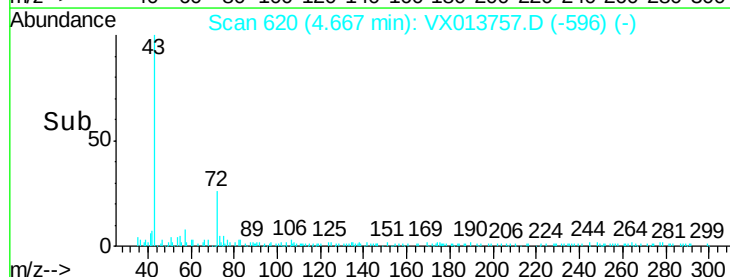
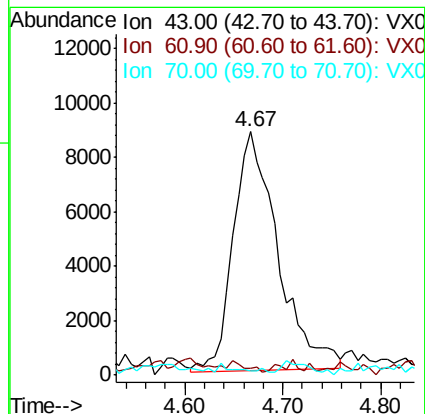
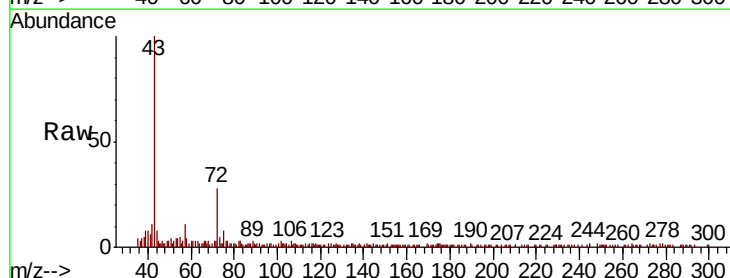
Tgt Ion: 43 Resp: 27769

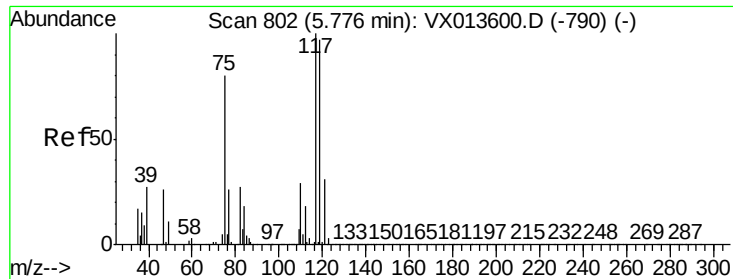
Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.4#

70 0.0 8.6 12.8#





#38

Carbon Tetrachloride

Concen: 6.997 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX013757.D

Acq: 04 Dec 2019 18:14

Instrument :

MSVOA_X

ClientSampleId :

OWL-C4-GW

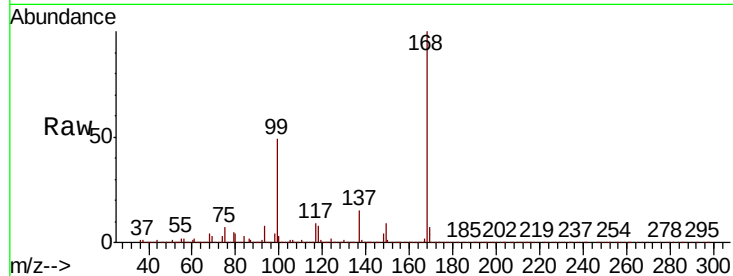
Tot Ion:117 Resp: 60069

Ion Ratio Lower Upper

117 100

119 6.1 77.5 116.3#

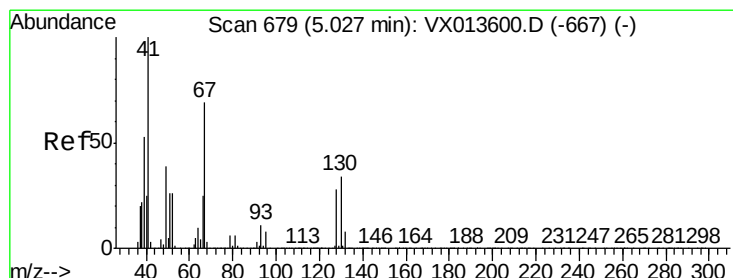
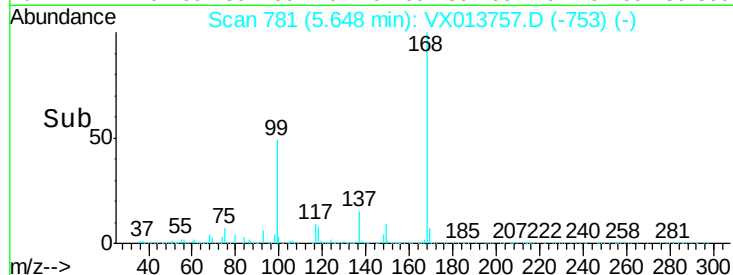
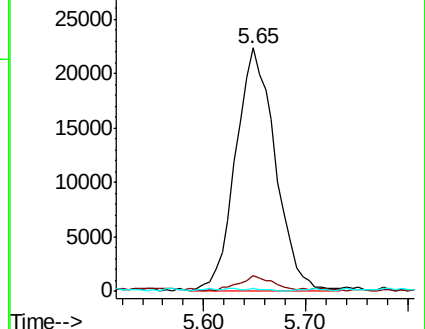
121 1.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 36.945 ug/l

RT: 5.11 min Scan# 693

Delta R.T. 0.09 min

Lab File: VX013757.D

Acq: 04 Dec 2019 18:14

Tgt Ion: 41 Resp: 211630

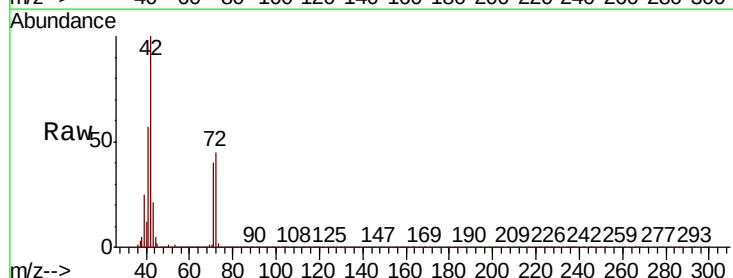
Ion Ratio Lower Upper

41 100

39 44.4 42.9 64.3

67 0.2 57.4 86.0#

52 0.2 22.4 33.6#

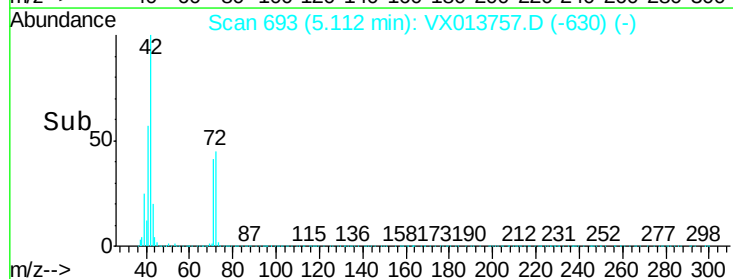
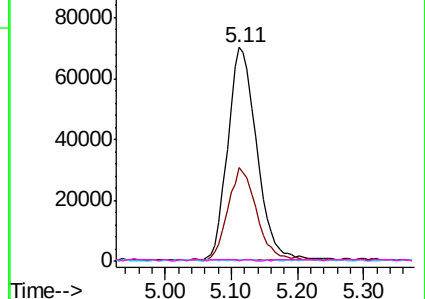


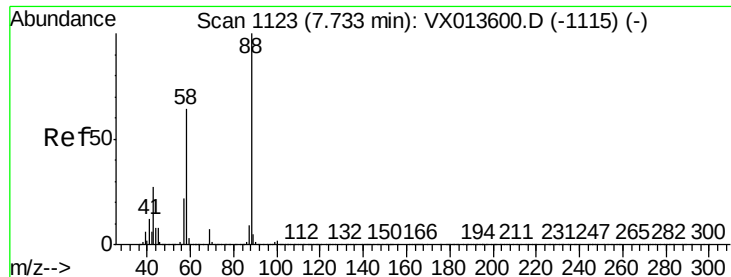
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#49

1,4-Dioxane

Concen: 2.887 ug/l

RT: 7.70 min Scan# 1118

Delta R.T. -0.03 min

Lab File: VX013757.D

Acq: 04 Dec 2019 18:14

Instrument :

MSVOA_X

ClientSampleId :

OWL-C4-GW

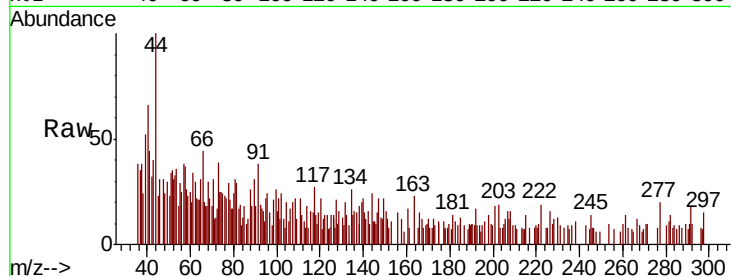
Tot Ion: 88 Resp: 540

Ion Ratio Lower Upper

88 100

43 27.2 25.8 38.6

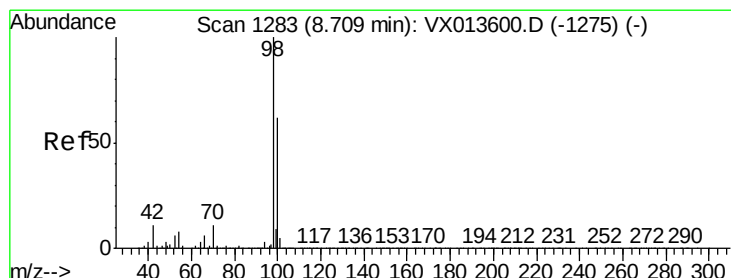
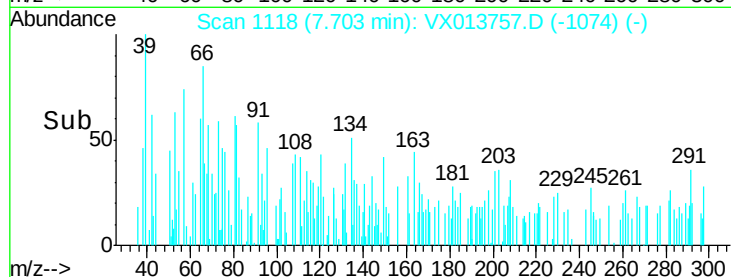
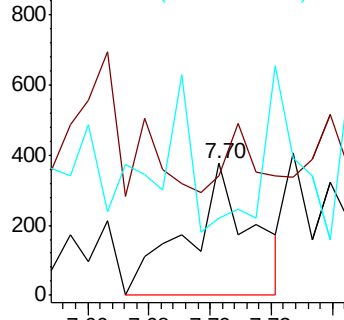
58 61.5 54.6 82.0



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 49.230 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013757.D

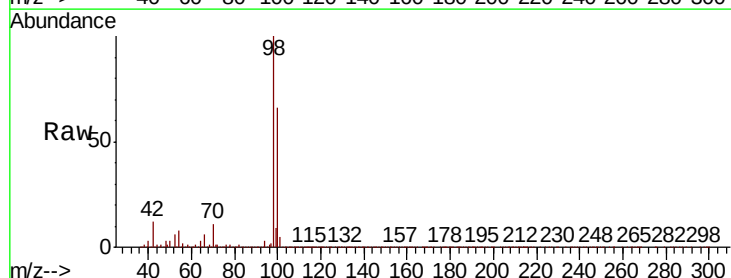
Acq: 04 Dec 2019 18:14

Tgt Ion: 98 Resp: 1216226

Ion Ratio Lower Upper

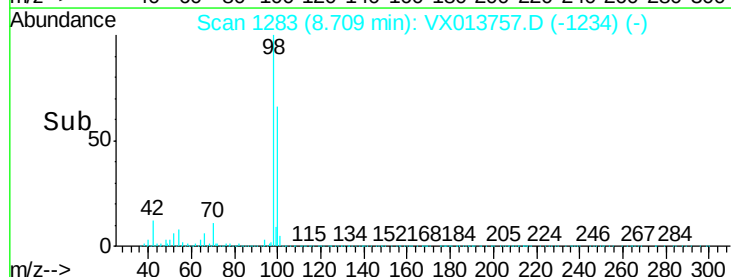
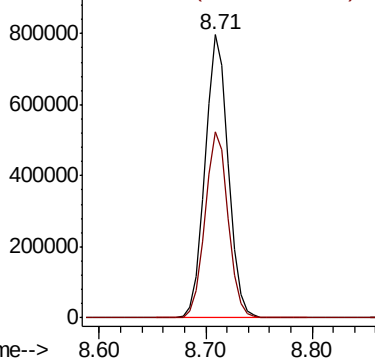
98 100

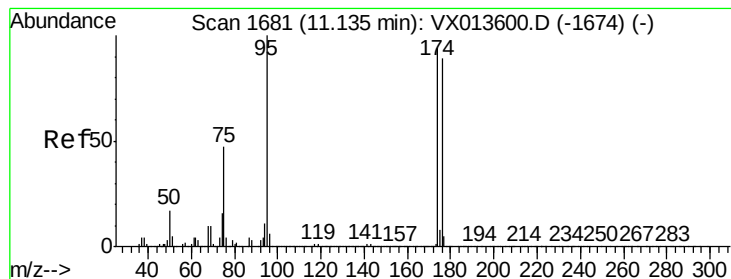
100 65.5 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 47.469 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013757.D

Acq: 04 Dec 2019 18:14

Instrument :

MSVOA_X

ClientSampleId :

OWL-C4-GW

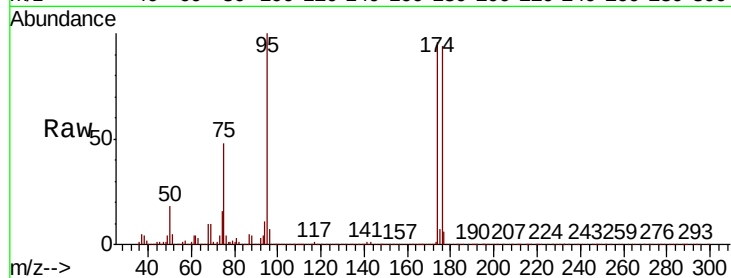
Tot Ion: 95 Resp: 422887

Ion Ratio Lower Upper

95 100

174 90.6 0.0 180.0

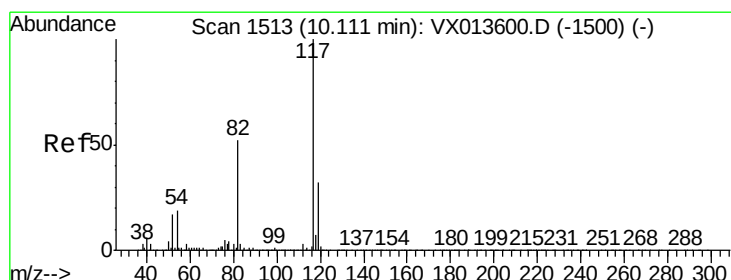
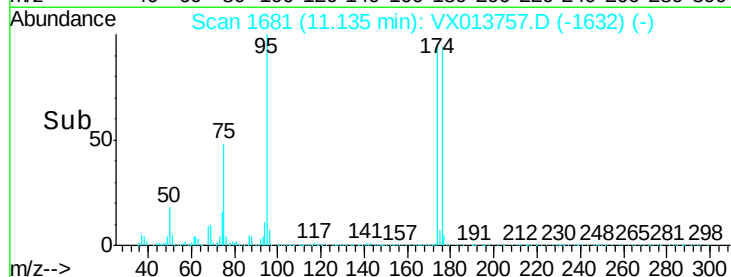
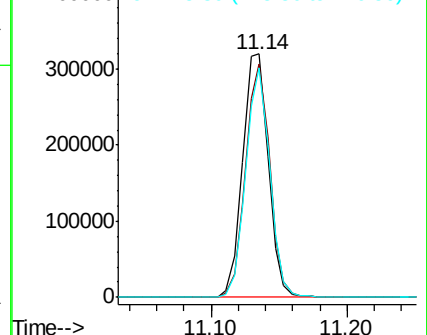
176 87.9 0.0 173.6



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013757.D

Acq: 04 Dec 2019 18:14

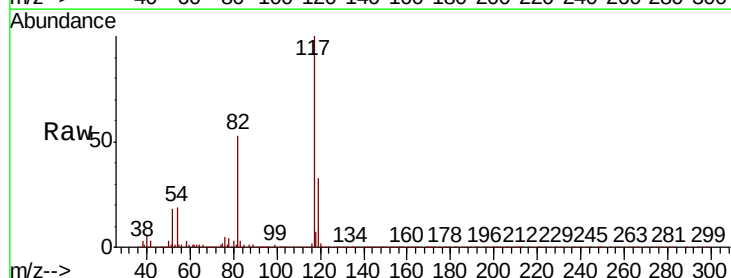
Tgt Ion: 117 Resp: 915712

Ion Ratio Lower Upper

117 100

82 53.1 41.8 62.8

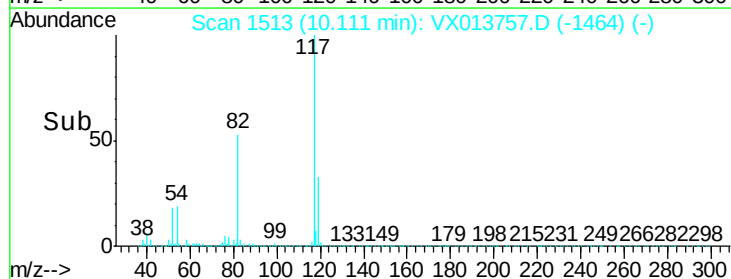
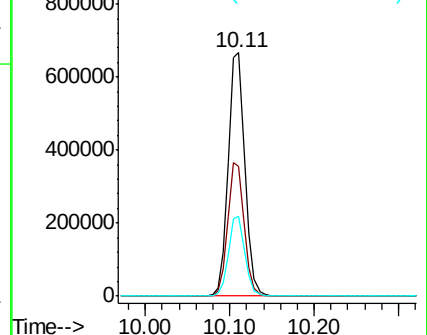
119 32.6 25.8 38.8

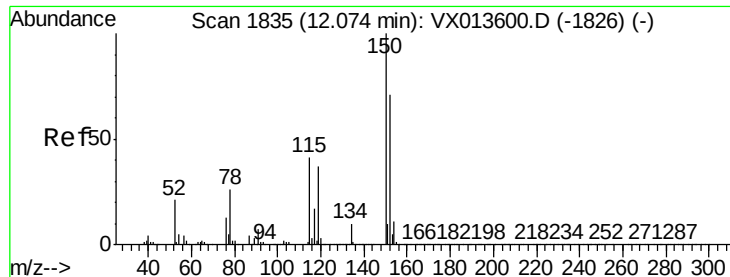


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



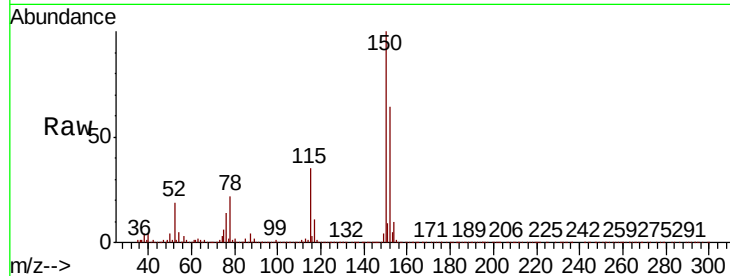


#72

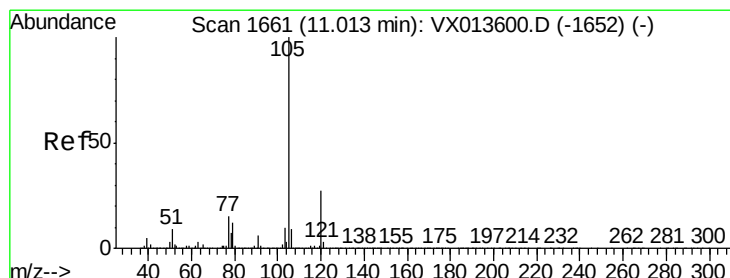
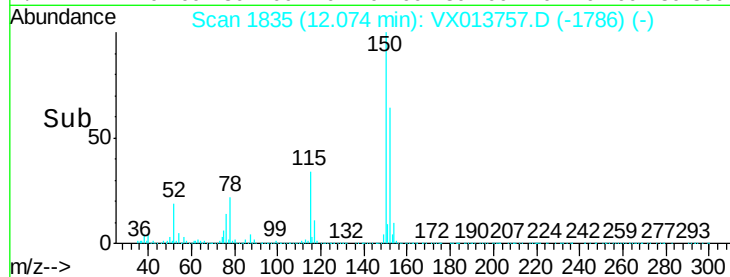
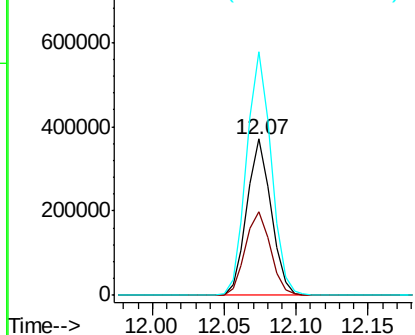
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX013757.D
Acq: 04 Dec 2019 18:14

Instrument :
MSVOA_X
ClientSampleId :
OWL-C4-GW

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.7	38.4	115.1
150	158.2	0.0	346.8



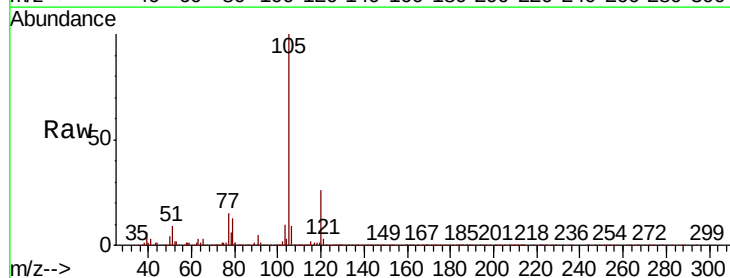
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



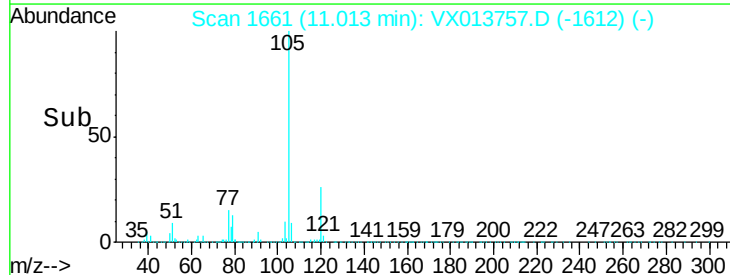
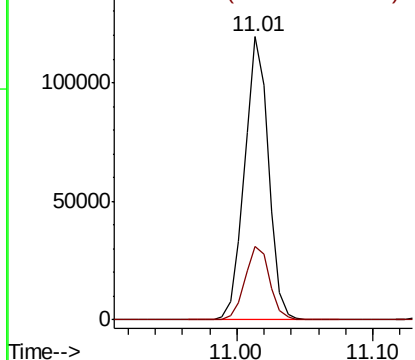
#73

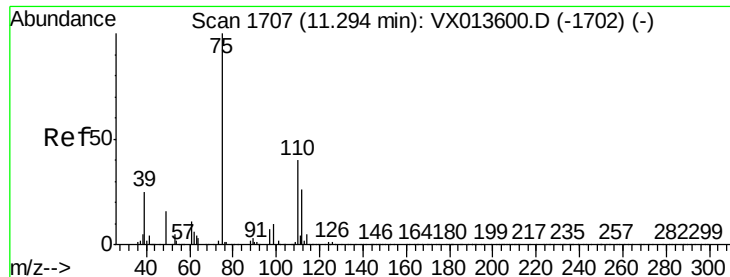
Isopropylbenzene
Concen: 4.848 ug/l
RT: 11.01 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VX013757.D
Acq: 04 Dec 2019 18:14

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.7	13.5	40.5



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

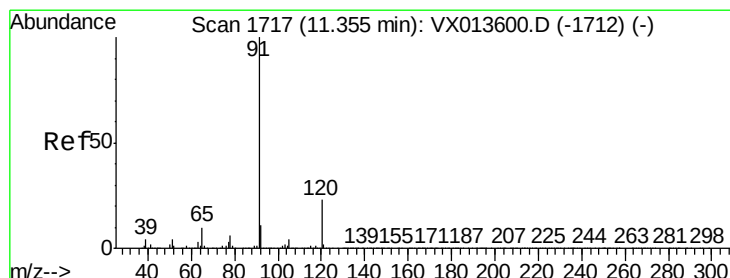
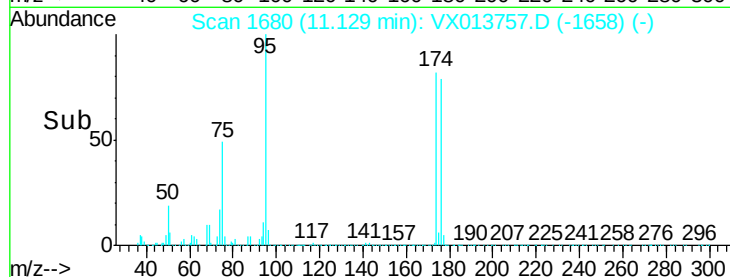
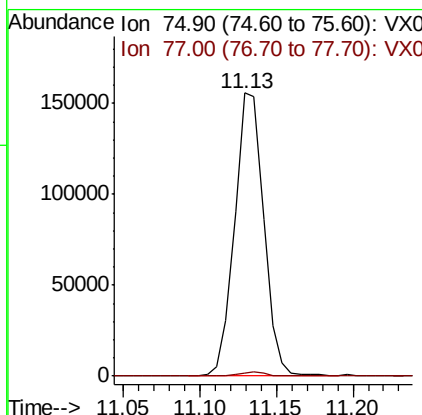
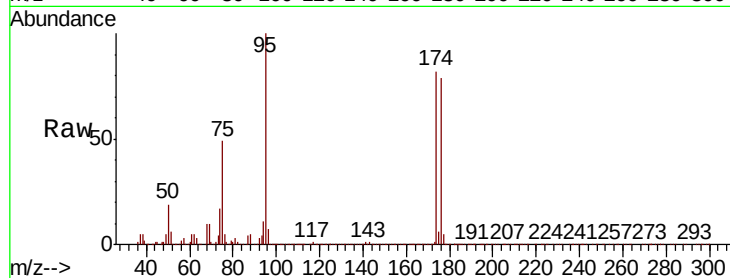




#76
 1,2,3-Trichloropropane
 Concen: 21.064 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.16 min
 Lab File: VX013757.D
 Acq: 04 Dec 2019 18:14

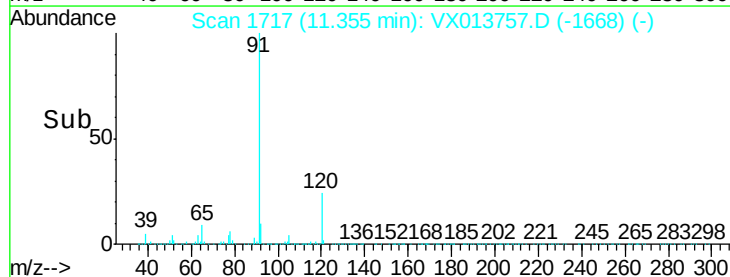
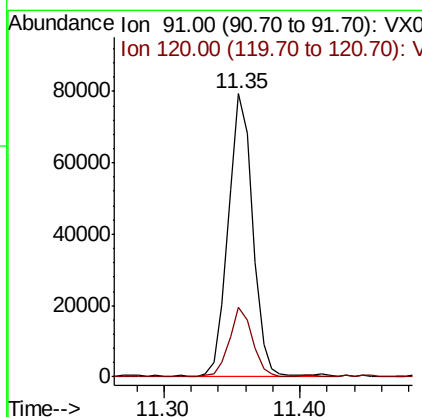
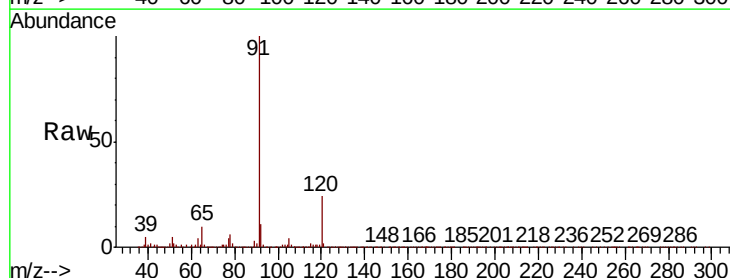
Instrument :
 MSVOA_X
 ClientSampleId :
 OWL-C4-GW

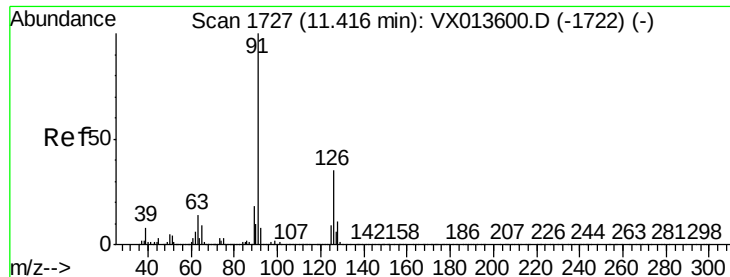
Tot Ion: 75 Resp: 204799
 Ion Ratio Lower Upper
 75 100
 77 1.4 19.1 57.5#



#78
 n-propylbenzene
 Concen: 2.910 ug/l
 RT: 11.35 min Scan# 1717
 Delta R.T. -0.00 min
 Lab File: VX013757.D
 Acq: 04 Dec 2019 18:14

Tgt Ion: 91 Resp: 98516
 Ion Ratio Lower Upper
 91 100
 120 23.8 11.8 35.3





#79

2-Chlorotoluene

Concen: 4.855 ug/l

RT: 11.35 min Scan# 1717

Delta R.T. -0.06 min

Lab File: VX013757.D

Acq: 04 Dec 2019 18:14

Instrument :

MSVOA_X

ClientSampleId :

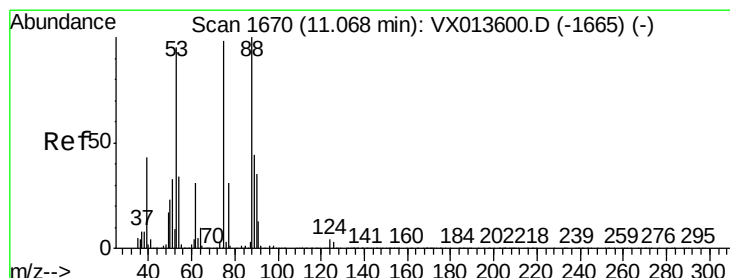
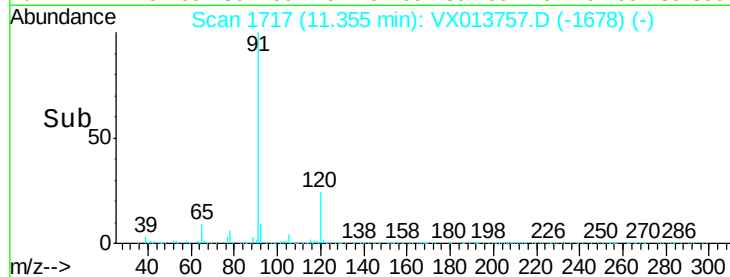
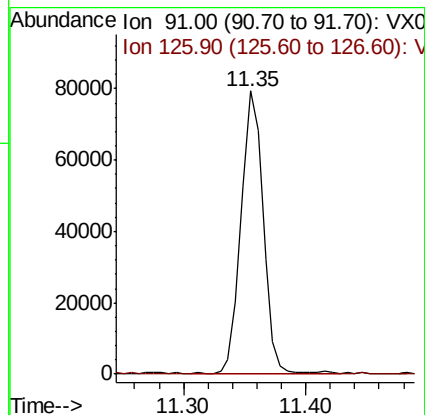
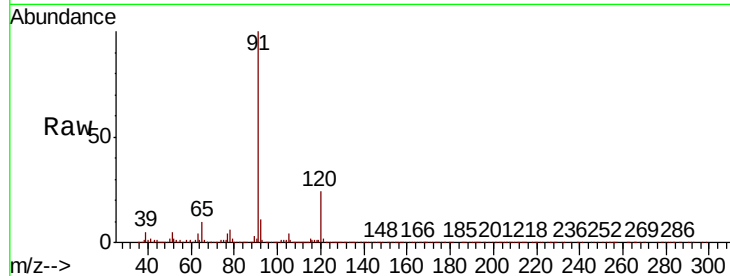
OWL-C4-GW

Tot Ion: 91 Resp: 98577

Ion Ratio Lower Upper

91 100

126 0.0 17.5 52.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.628 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX013757.D

Acq: 04 Dec 2019 18:14

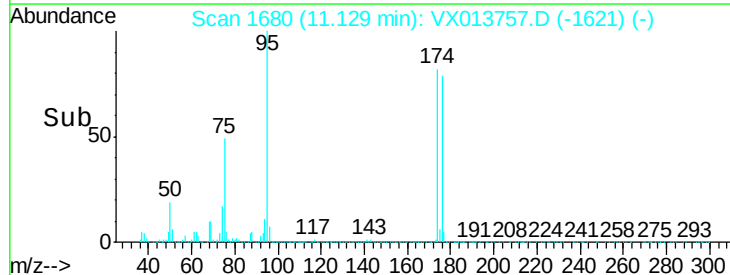
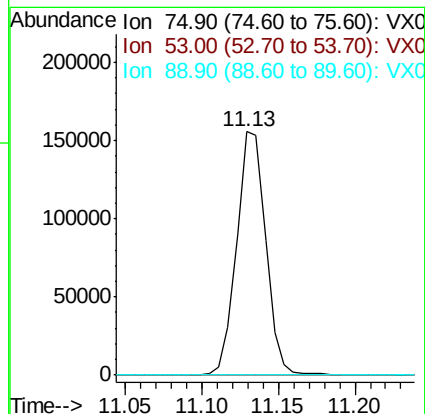
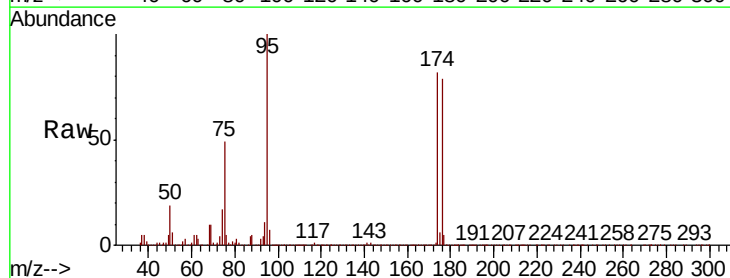
Tgt Ion: 75 Resp: 204799

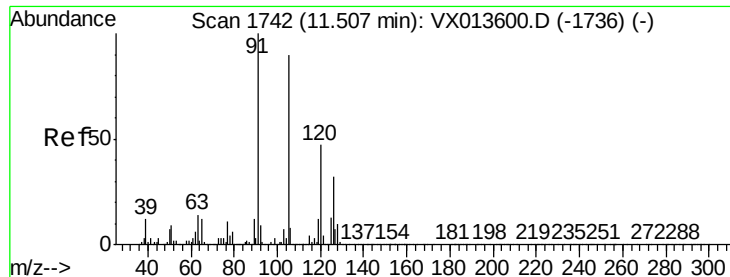
Ion Ratio Lower Upper

75 100

53 0.5 78.2 117.2#

89 0.1 35.4 53.2#

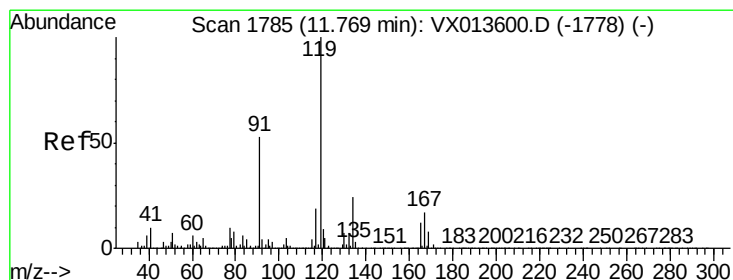
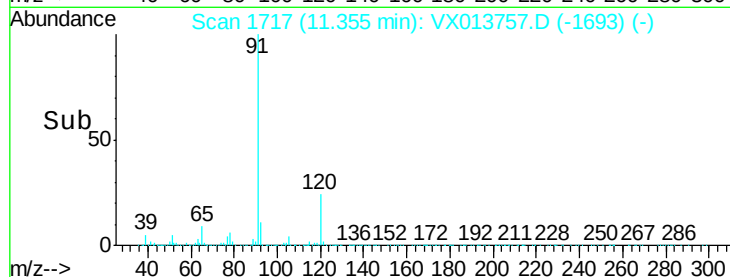
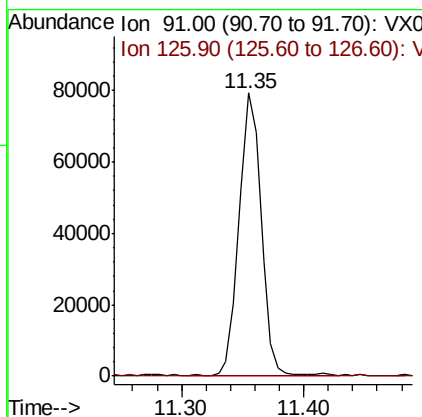
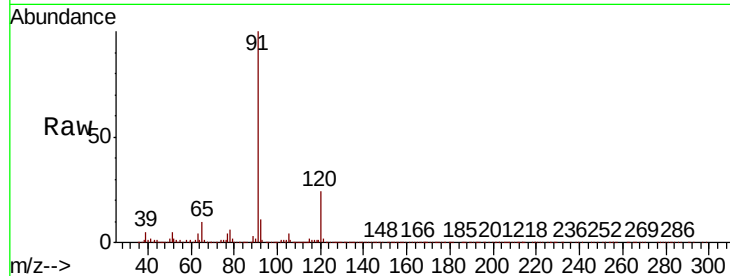




#82
4-Chlorotoluene
Concen: 4.192 ug/l
RT: 11.35 min Scan# 1717
Delta R.T. -0.15 min
Lab File: VX013757.D
Acq: 04 Dec 2019 18:14

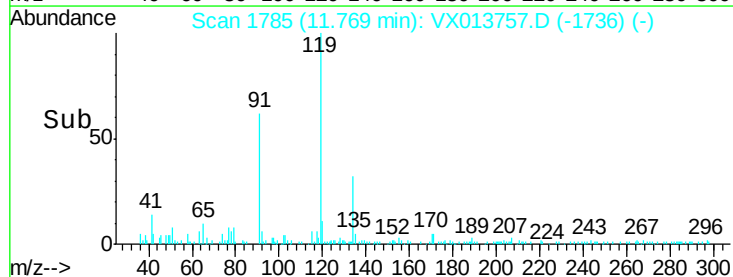
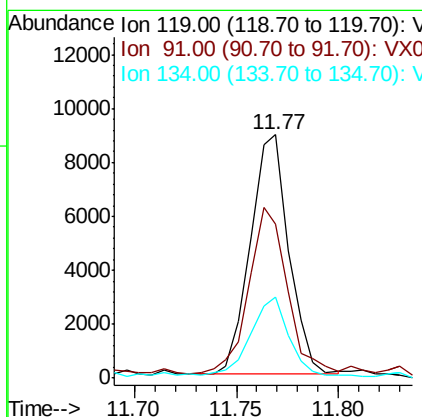
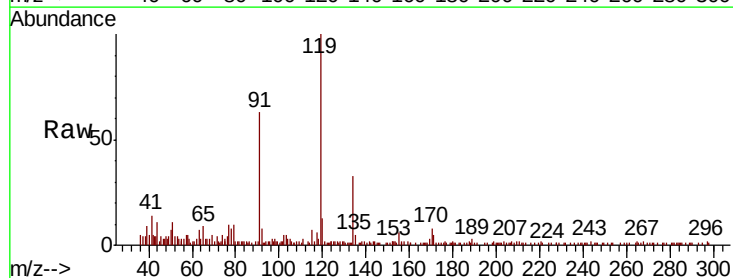
Instrument :
MSVOA_X
ClientSampleId :
OWL-C4-GW

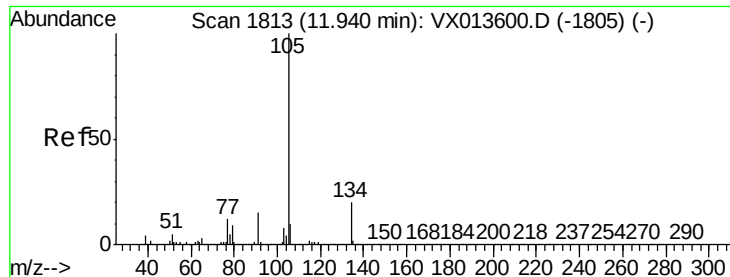
Tot Ion: 91 Resp: 98577
Ion Ratio Lower Upper
91 100
126 0.0 15.7 47.0#



#83
tert-Butylbenzene
Concen: 0.464 ug/l
RT: 11.77 min Scan# 1785
Delta R.T. -0.00 min
Lab File: VX013757.D
Acq: 04 Dec 2019 18:14

Tgt Ion: 119 Resp: 11718
Ion Ratio Lower Upper
119 100
91 68.2 27.2 81.6
134 32.6 11.7 35.1





#85

sec-Butylbenzene

Concen: 3.217 ug/l

RT: 11.94 min Scan# 1813

Delta R.T. -0.00 min

Lab File: VX013757.D

Acq: 04 Dec 2019 18:14

Instrument :

MSVOA_X

ClientSampleId :

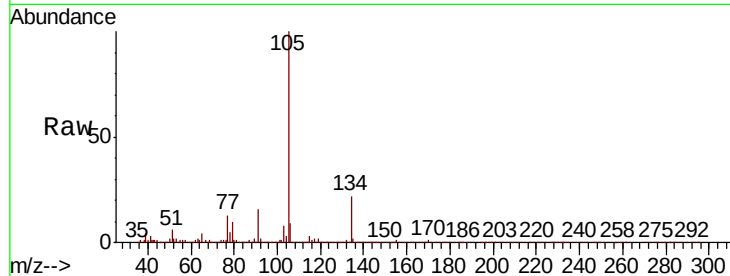
OWL-C4-GW

Tot Ion:105 Resp: 92796

Ion Ratio Lower Upper

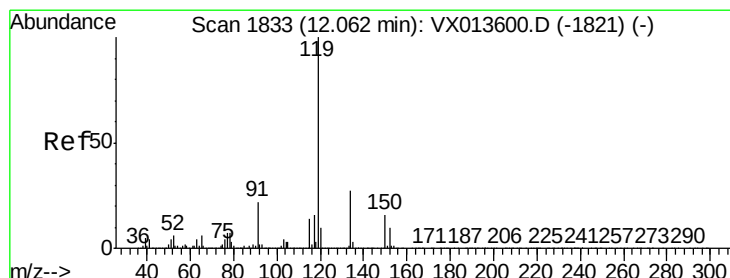
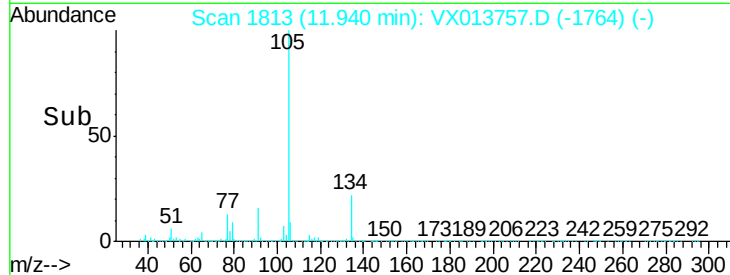
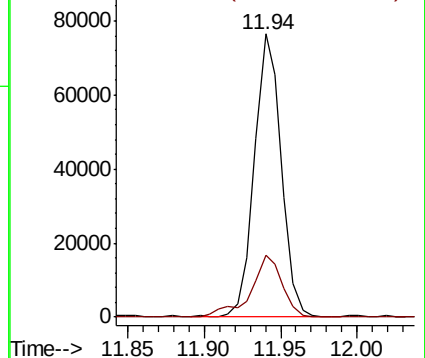
105 100

134 26.4 10.4 31.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.182 ug/l

RT: 12.23 min Scan# 1860

Delta R.T. 0.16 min

Lab File: VX013757.D

Acq: 04 Dec 2019 18:14

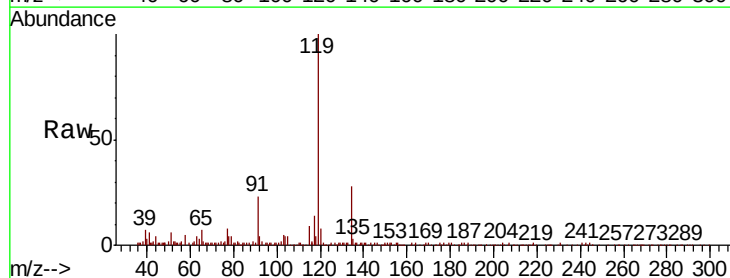
Tgt Ion:119 Resp: 31731

Ion Ratio Lower Upper

119 100

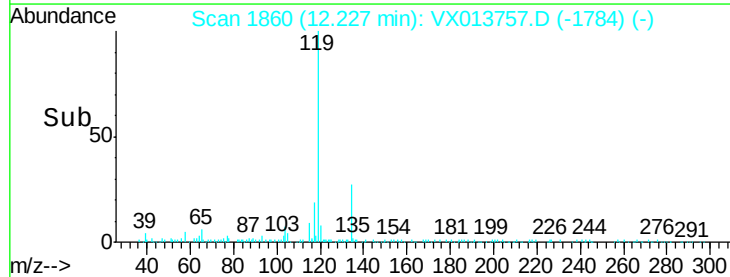
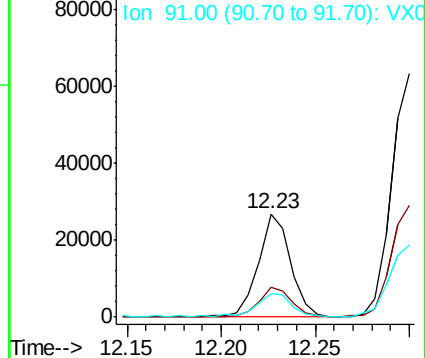
134 28.8 13.3 39.9

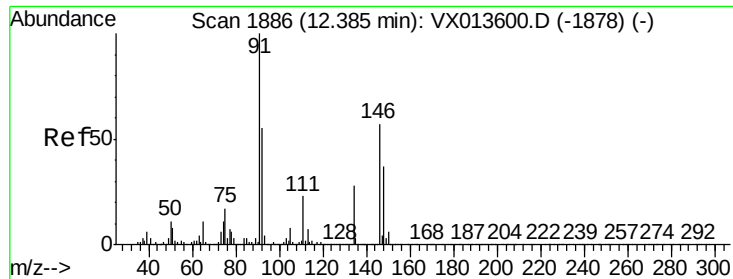
91 23.9 11.3 33.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

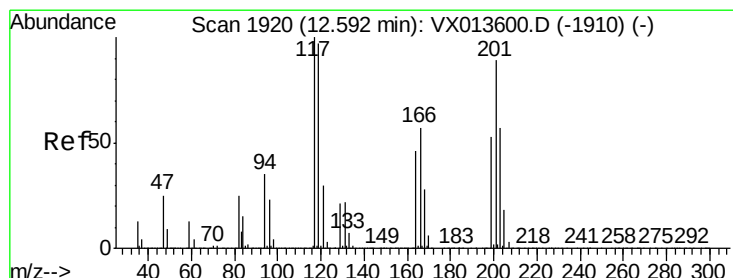
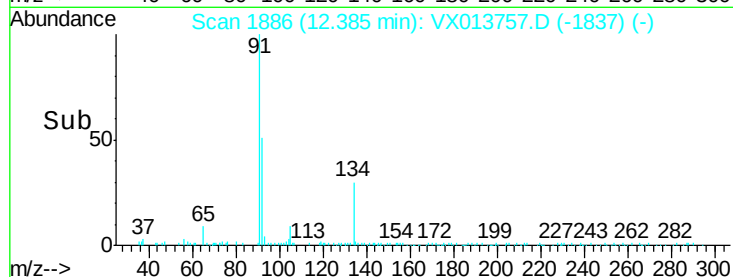
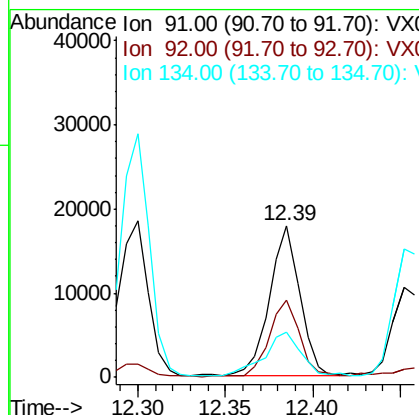
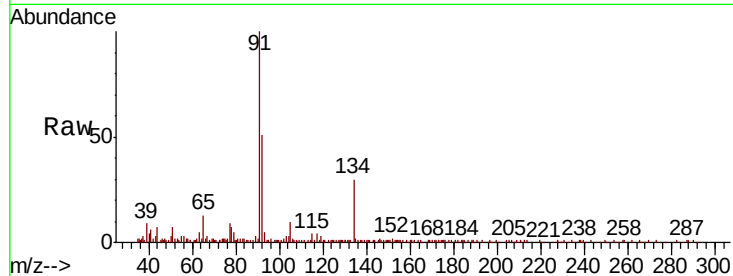




#89
n-Butylbenzene
Concen: 0.949 ug/l
RT: 12.39 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX013757.D
Acq: 04 Dec 2019 18:14

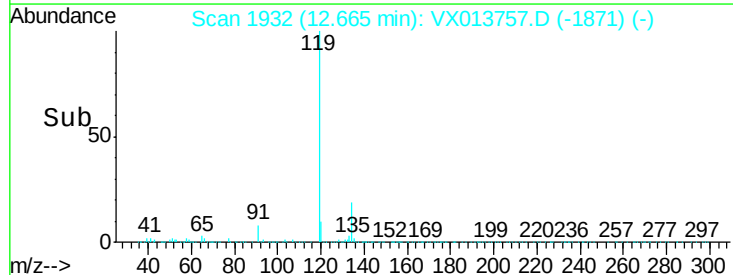
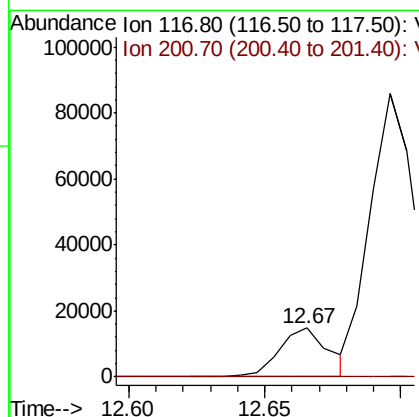
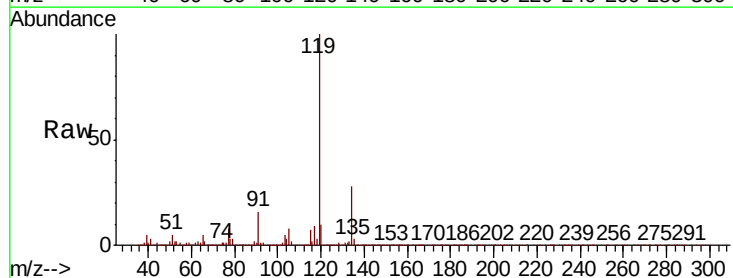
Instrument :
MSVOA_X
ClientSampled :
OWL-C4-GW

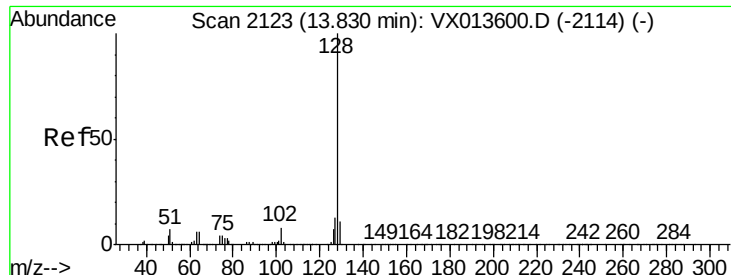
Tot Ion: 91 Resp: 21724
Ion Ratio Lower Upper
91 100
92 53.6 27.4 82.2
134 36.7 13.5 40.4



#90
Hexachloroethane
Concen: 3.772 ug/l
RT: 12.67 min Scan# 1932
Delta R.T. 0.07 min
Lab File: VX013757.D
Acq: 04 Dec 2019 18:14

Tgt Ion: 117 Resp: 18297
Ion Ratio Lower Upper
117 100
201 0.6 44.1 132.4#





#95
Naphthalene
Concen: 0.288 ug/l
RT: 13.84 min Scan# 2124
Delta R.T. 0.01 min
Lab File: VX013757.D
Acq: 04 Dec 2019 18:14

Instrument :
MSVOA_X
ClientSampleId :
OWL-C4-GW

Tot Ion	Ratio	Lower	Upper
128	100		
127	24.0	10.3	15.5#
129	0.0	8.7	13.1#

