

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120419\
 Data File : VX013760.D
 Acq On : 04 Dec 2019 19:23
 Operator : JC/SP
 Sample : K6098-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OWL-C7-GW

Quant Time: Dec 05 00:59:58 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	691459	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	1035132	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	919229	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	436269	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	368359	45.89	ug/l	0.00
Spiked Amount			Recovery	=	91.78%	
35) Dibromofluoromethane	5.49	113	312730	48.87	ug/l	0.00
Spiked Amount			Recovery	=	97.74%	
50) Toluene-d8	8.71	98	1216690	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
62) 4-Bromofluorobenzene	11.13	95	427625	47.56	ug/l	0.00
Spiked Amount			Recovery	=	95.12%	

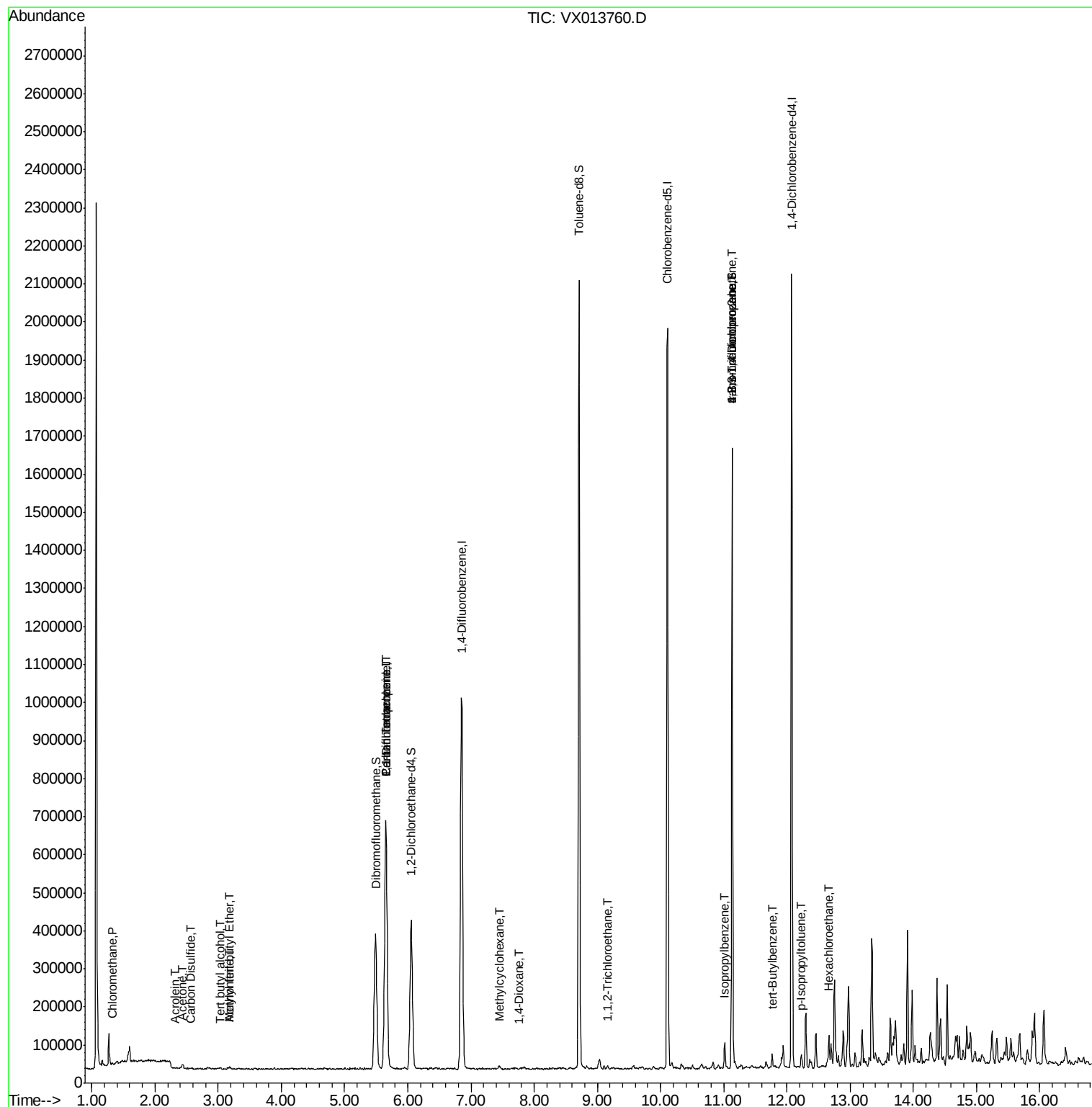
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	2587	0.300	ug/l	90
11) Tert butyl alcohol	3.03	59	951	0.480	ug/l #	74
13) Acrolein	2.32	56	238	6.179	ug/l #	61
15) Acrylonitrile	3.17	53	923	0.226	ug/l #	67
16) Acetone	2.43	43	12110	3.056	ug/l #	82
17) Carbon Disulfide	2.56	76	4978	0.265	ug/l	99
19) Methyl tert-butyl Ether	3.18	73	5215	0.239	ug/l	94
36) 1,1-Dichloropropene	5.65	75	46786	4.979	ug/l #	50
38) Carbon Tetrachloride	5.65	117	58105	6.706	ug/l #	17
39) Methylcyclohexane	7.45	83	3422	0.295	ug/l #	70
49) 1,4-Dioxane	7.76	88	391	2.072	ug/l #	88
55) 1,1,2-Trichloroethane	9.16	97	4588	0.640	ug/l #	23
73) Isopropylbenzene	11.01	105	37666	1.231	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	207507	21.147	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	207507	57.855	ug/l #	11
83) tert-Butylbenzene	11.76	119	16709	0.656	ug/l	98
86) p-Isopropyltoluene	12.23	119	17576	0.649	ug/l	98
90) Hexachloroethane	12.67	117	4401	0.899	ug/l #	11

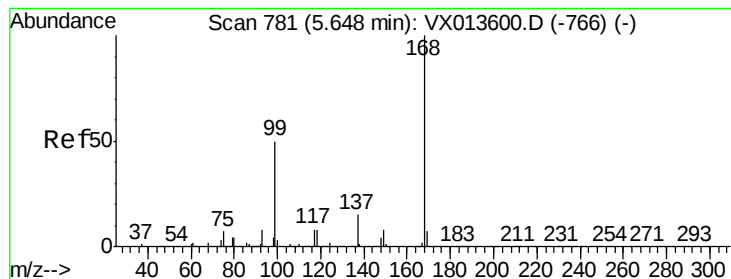
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX013760.D

Acq: 04 Dec 2019 19:23

Instrument :

MSVOA_X

ClientSampleId :

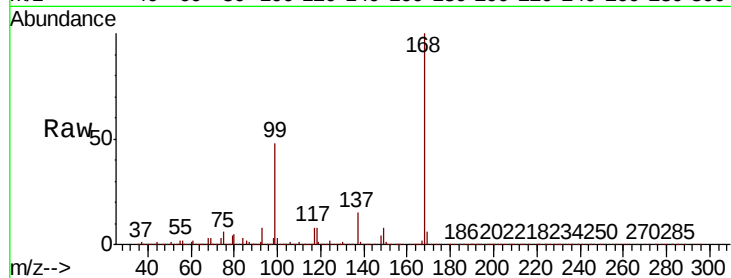
OWL-C7-GW

Tot Ion:168 Resp: 691459

Ion Ratio Lower Upper

168 100

99 48.1 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

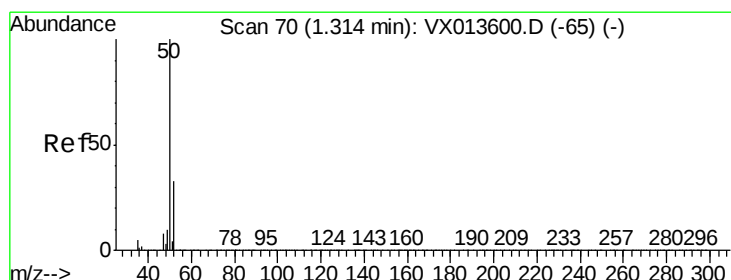
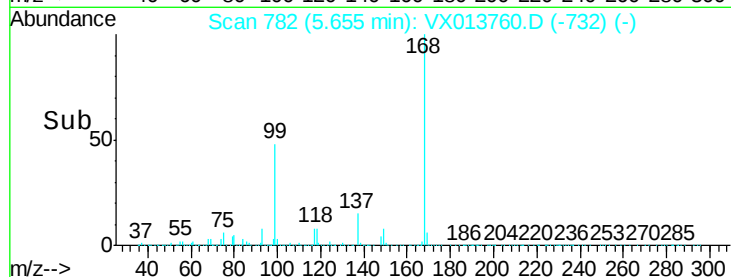
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.300 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.01 min

Lab File: VX013760.D

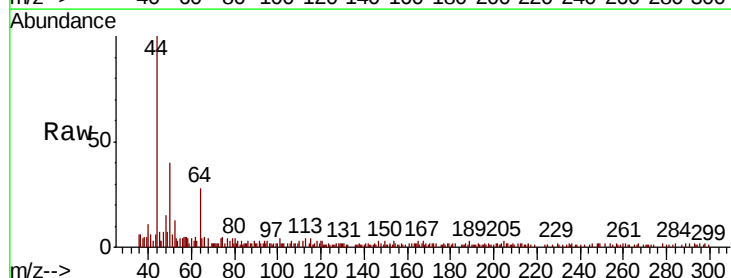
Acq: 04 Dec 2019 19:23

Tgt Ion: 50 Resp: 2587

Ion Ratio Lower Upper

50 100

52 27.1 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

3000

2500

2000

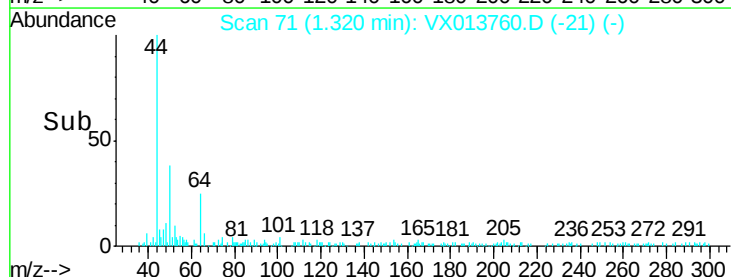
1500

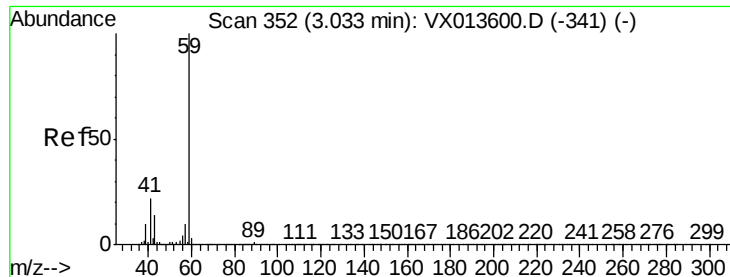
1000

500

0

Time-->



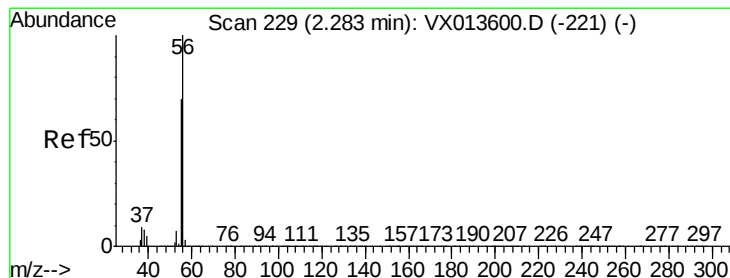
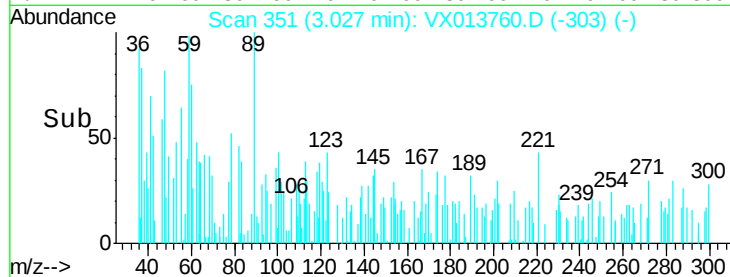
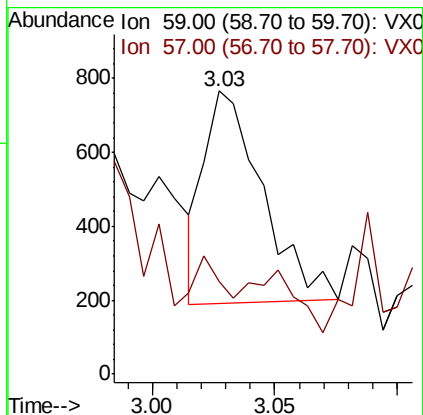
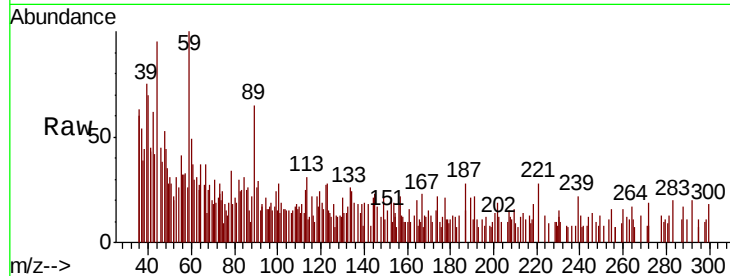


#11

Tert butyl alcohol
 Concen: 0.480 ug/l
 RT: 3.03 min Scan# 351
 Delta R.T. -0.01 min
 Lab File: VX013760.D
 Acq: 04 Dec 2019 19:23

Instrument :
 MSVOA_X
 ClientSampleId :
 OWL-C7-GW

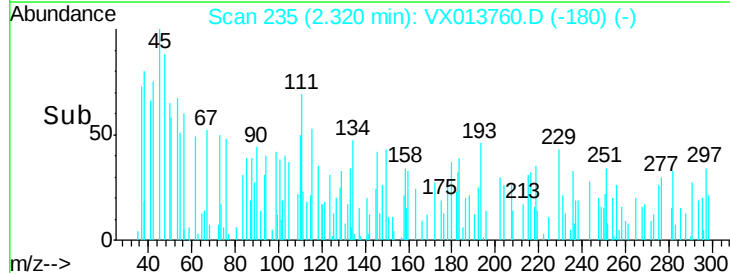
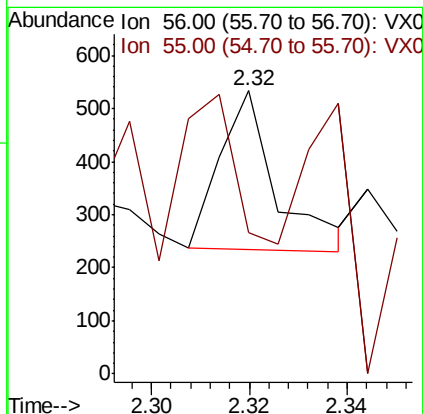
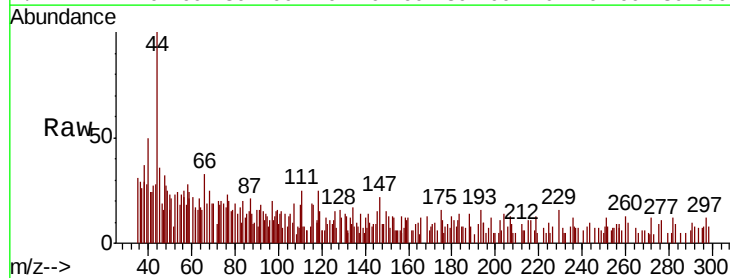
Tot Ion: 59 Resp: 951
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#

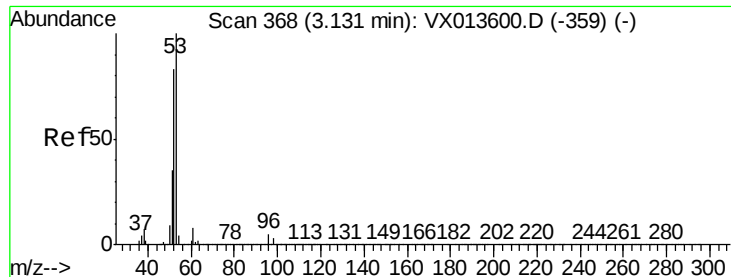


#13

Acrolein
 Concen: 6.179 ug/l
 RT: 2.32 min Scan# 235
 Delta R.T. 0.04 min
 Lab File: VX013760.D
 Acq: 04 Dec 2019 19:23

Tgt Ion: 56 Resp: 238
 Ion Ratio Lower Upper
 56 100
 55 102.1 56.2 84.4#





#15

Acrylonitrile

Concen: 0.226 ug/l

RT: 3.17 min Scan# 375

Delta R.T. 0.04 min

Lab File: VX013760.D

Acq: 04 Dec 2019 19:23

Instrument :

MSVOA_X

ClientSampleId :

OWL-C7-GW

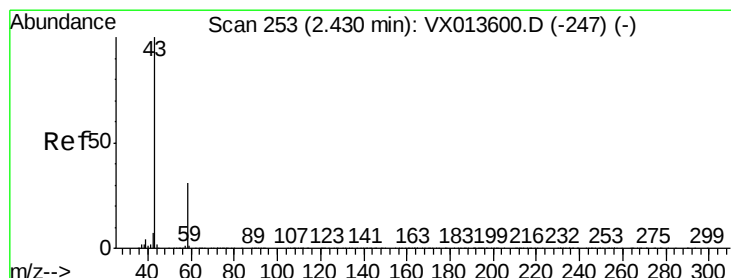
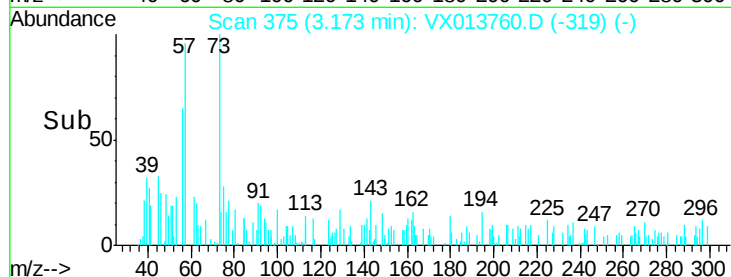
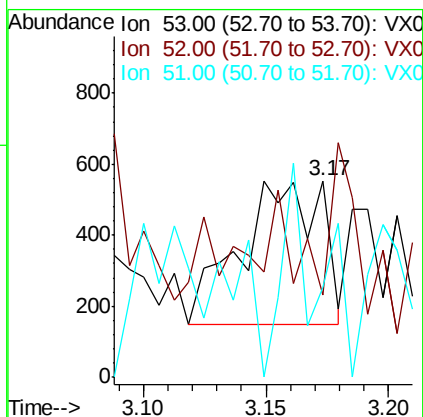
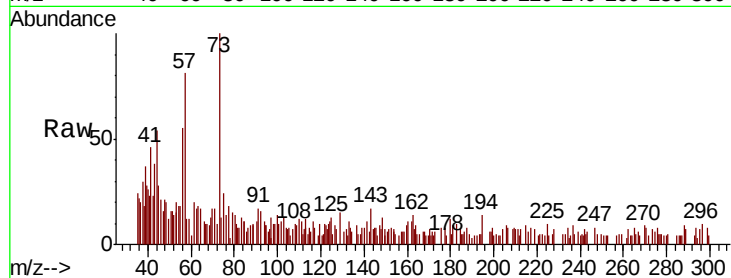
Tot Ion: 53 Resp: 923

Ion Ratio Lower Upper

53 100

52 47.7 66.2 99.2#

51 48.6 29.0 43.6#



#16

Acetone

Concen: 3.056 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX013760.D

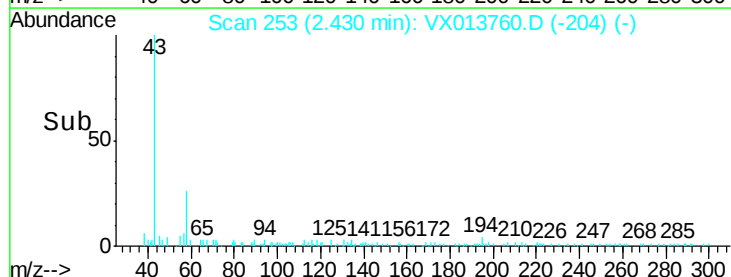
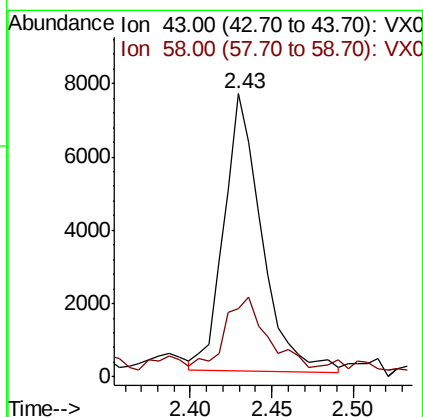
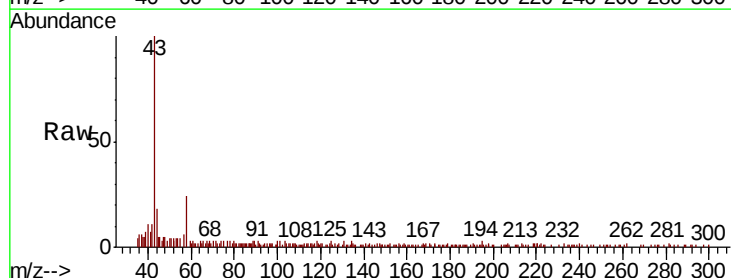
Acq: 04 Dec 2019 19:23

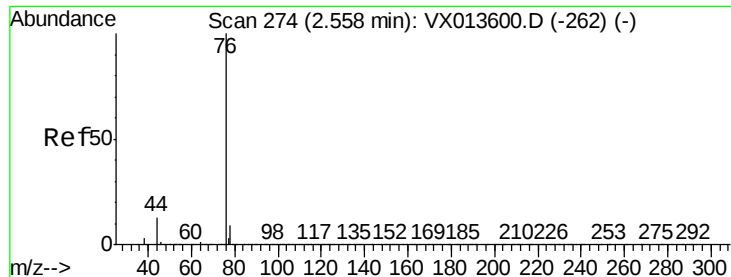
Tgt Ion: 43 Resp: 12110

Ion Ratio Lower Upper

43 100

58 20.8 24.6 36.8#





#17

Carbon Disulfide

Concen: 0.265 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013760.D

Acq: 04 Dec 2019 19:23

Instrument :

MSVOA_X

ClientSampleId :

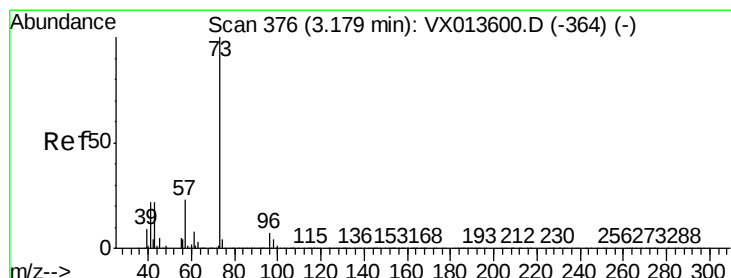
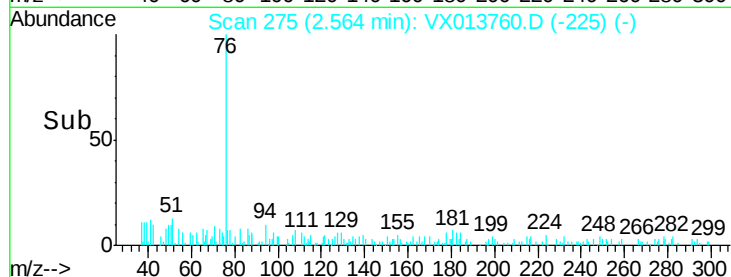
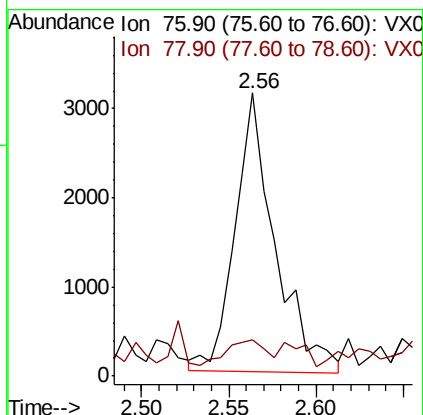
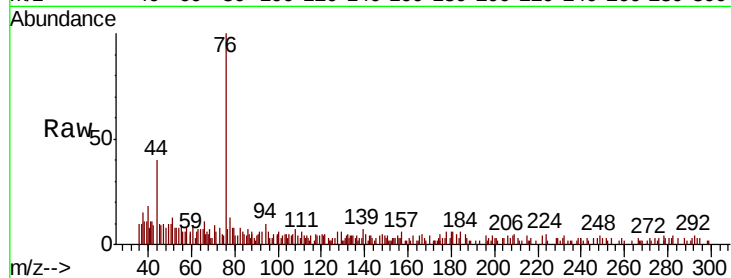
OWL-C7-GW

Tot Ion: 76 Resp: 4978

Ion Ratio Lower Upper

76 100

78 8.5 7.2 10.8



#19

Methyl tert-butyl Ether

Concen: 0.239 ug/l

RT: 3.18 min Scan# 376

Delta R.T. 0.00 min

Lab File: VX013760.D

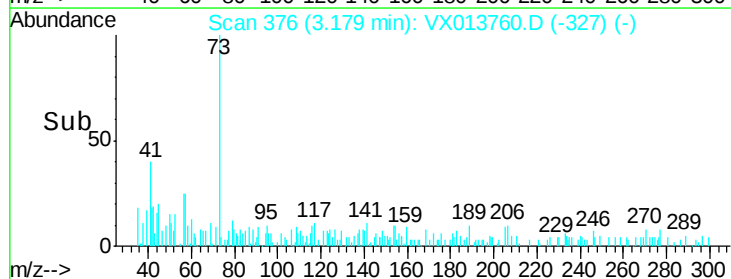
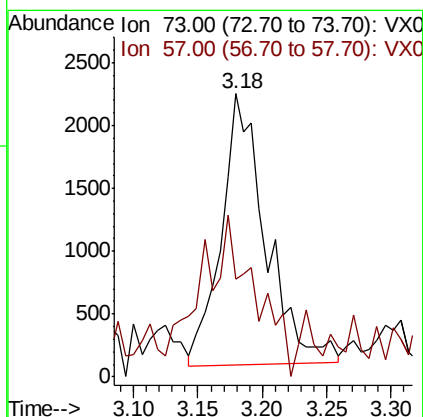
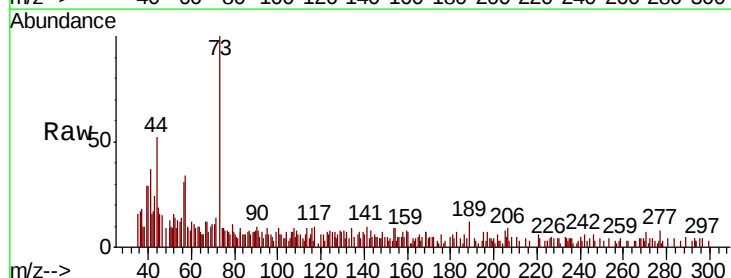
Acq: 04 Dec 2019 19:23

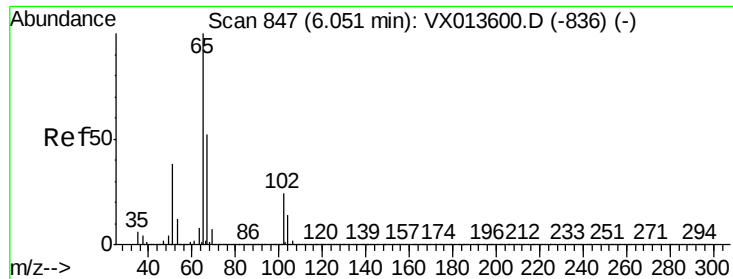
Tgt Ion: 73 Resp: 5215

Ion Ratio Lower Upper

73 100

57 25.7 18.3 27.5

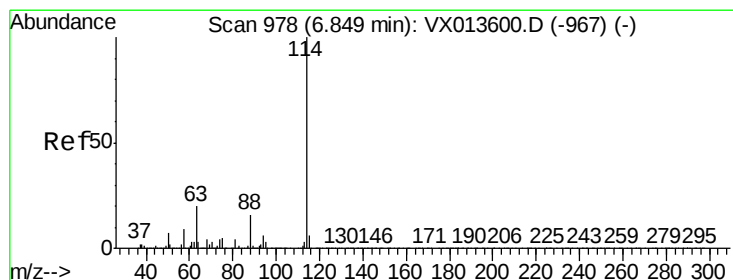
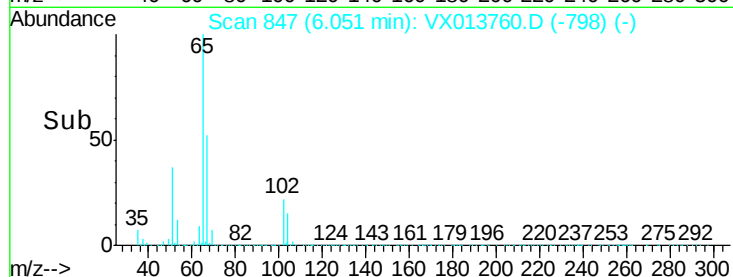
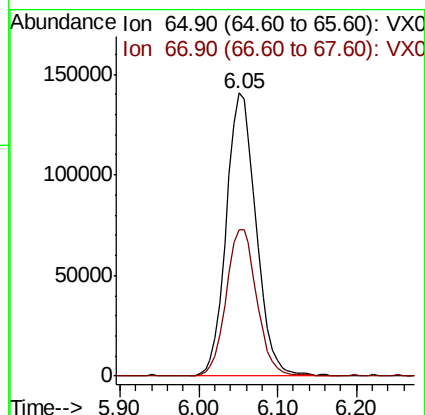
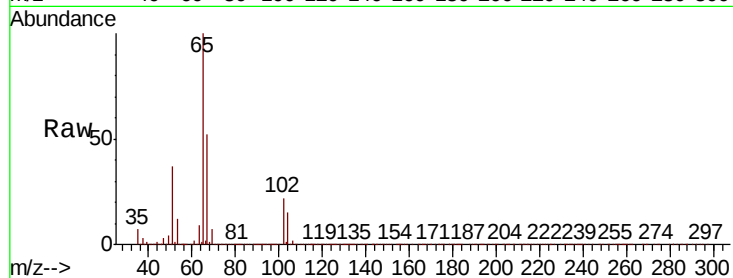




#33
 1,2-Dichloroethane-d4
 Concen: 45.894 ug/l
 RT: 6.05 min Scan# 847
 Delta R.T. 0.00 min
 Lab File: VX013760.D
 Acq: 04 Dec 2019 19:23

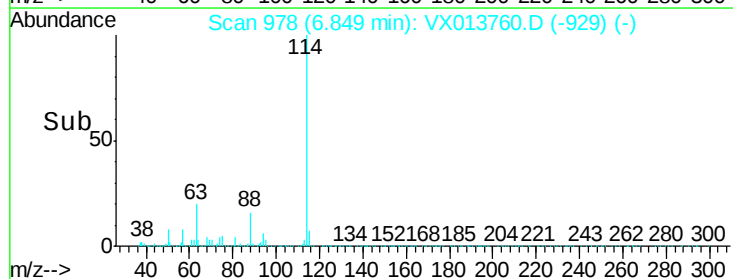
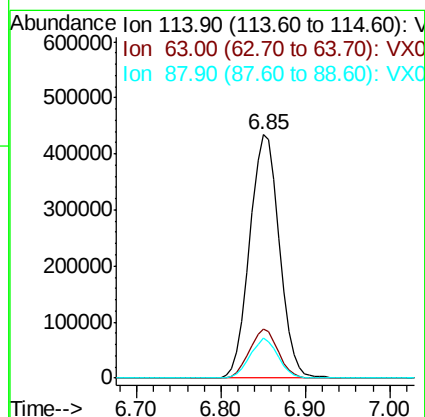
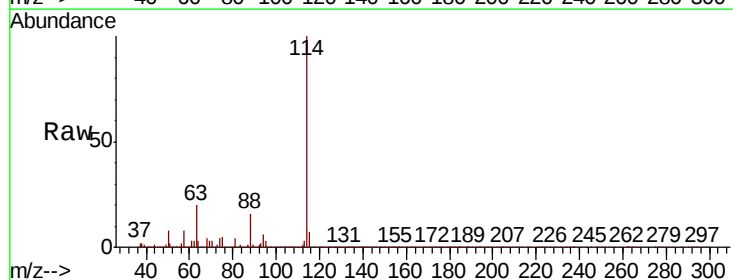
Instrument :
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 OWL-C7-GW

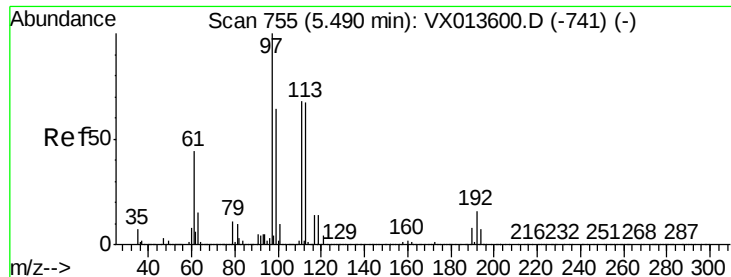
Tot Ion: 65 Resp: 368359
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX013760.D
 Acq: 04 Dec 2019 19:23

Tgt Ion: 114 Resp: 1035132
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.6
 88 16.2 0.0 31.4





#35

Dibromofluoromethane

Concen: 48.869 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX013760.D

Acq: 04 Dec 2019 19:23

Instrument :

MSVOA_X

ClientSampleId :

OWL-C7-GW

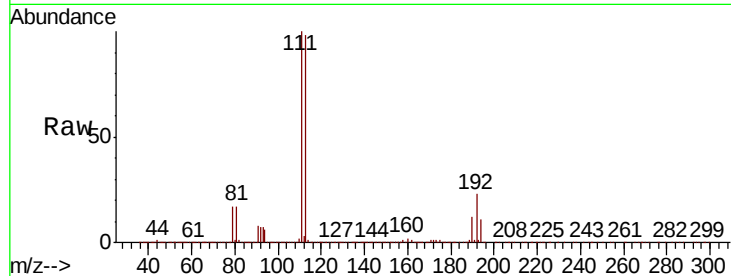
Tot Ion:113 Resp: 312730

Ion Ratio Lower Upper

113 100

111 100.1 83.6 125.4

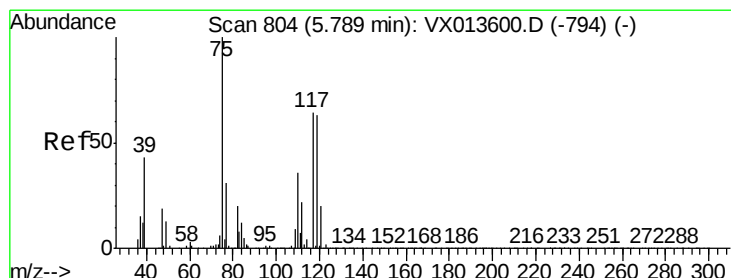
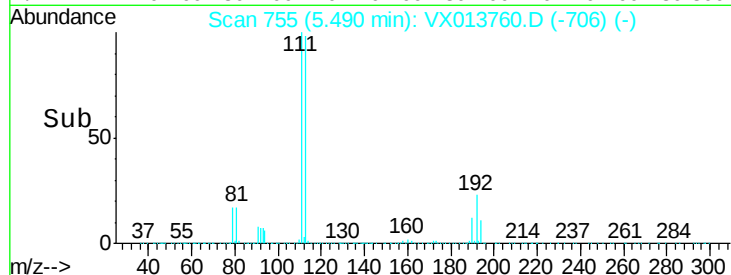
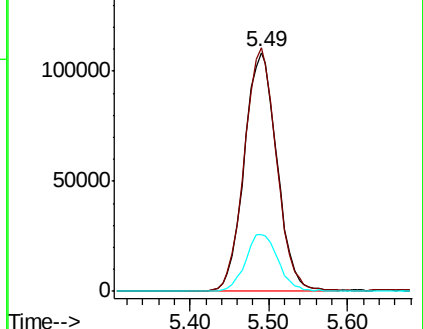
192 23.6 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.979 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX013760.D

Acq: 04 Dec 2019 19:23

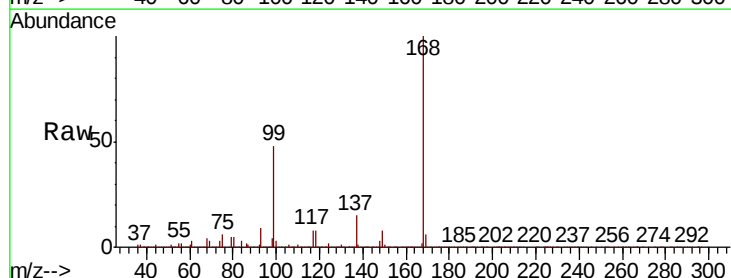
Tgt Ion: 75 Resp: 46786

Ion Ratio Lower Upper

75 100

110 9.5 18.1 54.1#

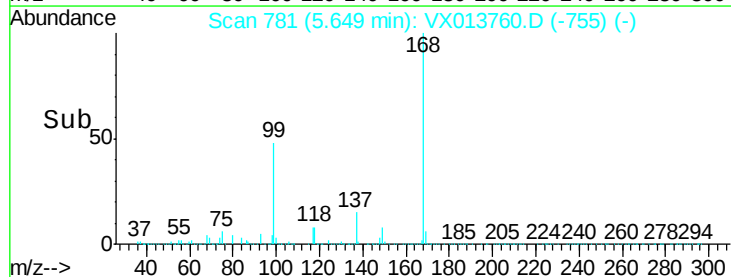
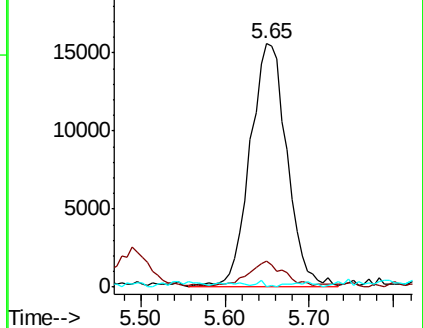
77 0.6 24.5 36.7#

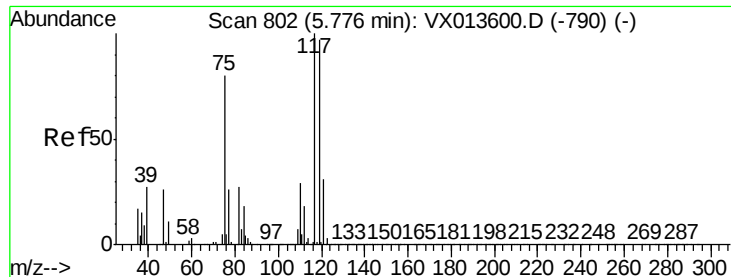


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

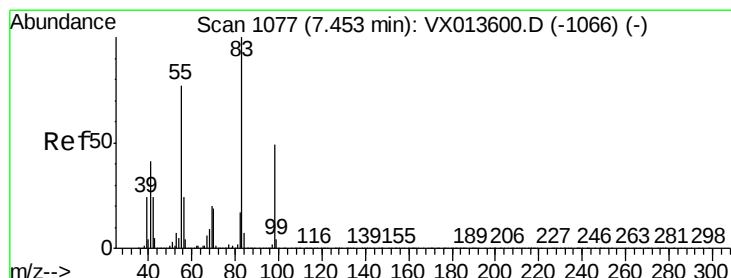
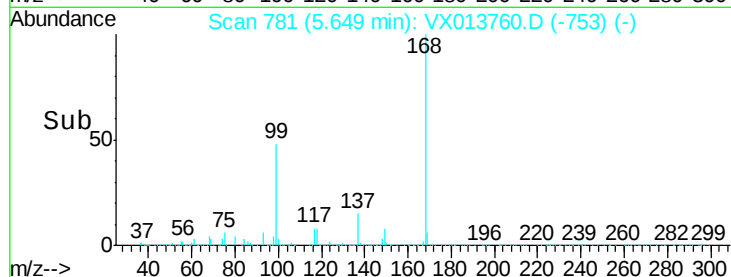
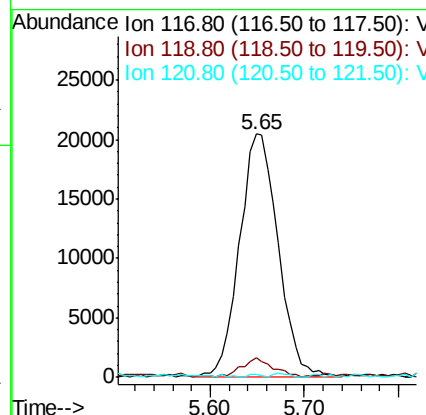
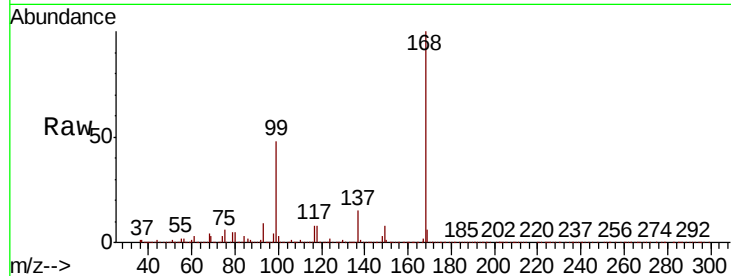




#38
Carbon Tetrachloride
Concen: 6.706 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX013760.D
Acq: 04 Dec 2019 19:23

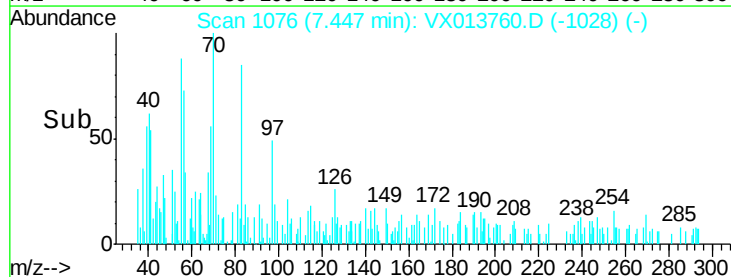
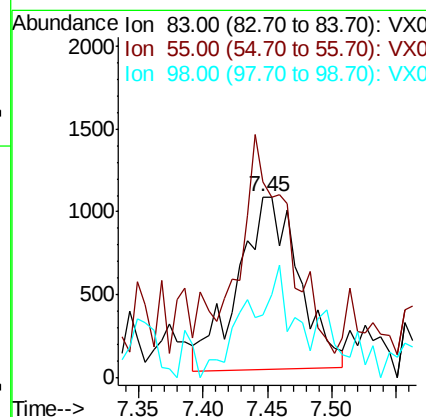
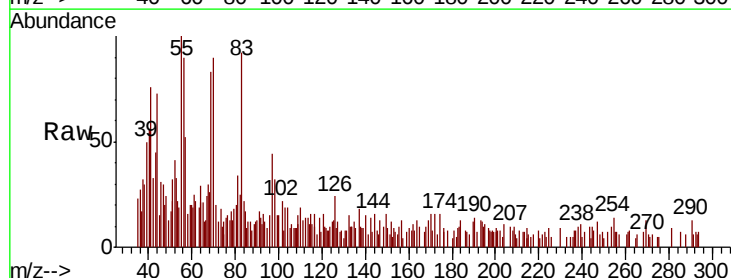
Instrument :
MSVOA_X
ClientSampled :
OWL-C7-GW

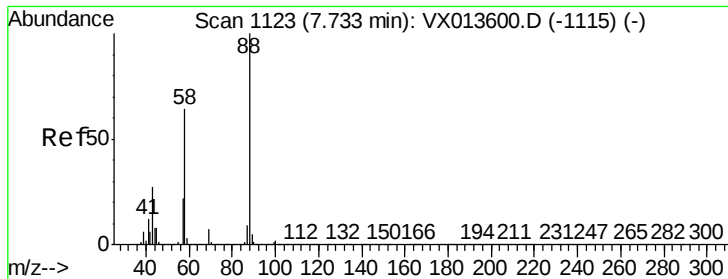
Tot Ion:117 Resp: 58105
Ion Ratio Lower Upper
117 100
119 7.4 77.5 116.3#
121 0.5 25.0 37.6#



#39
Methylcyclohexane
Concen: 0.295 ug/l
RT: 7.45 min Scan# 1076
Delta R.T. -0.01 min
Lab File: VX013760.D
Acq: 04 Dec 2019 19:23

Tgt Ion: 83 Resp: 3422
Ion Ratio Lower Upper
83 100
55 101.6 61.9 92.9#
98 25.8 39.4 59.0#





#49

1,4-Dioxane

Concen: 2.072 ug/l

RT: 7.76 min Scan# 1127

Delta R.T. 0.02 min

Lab File: VX013760.D

Acq: 04 Dec 2019 19:23

Instrument :

MSVOA_X

ClientSampleId :

OWL-C7-GW

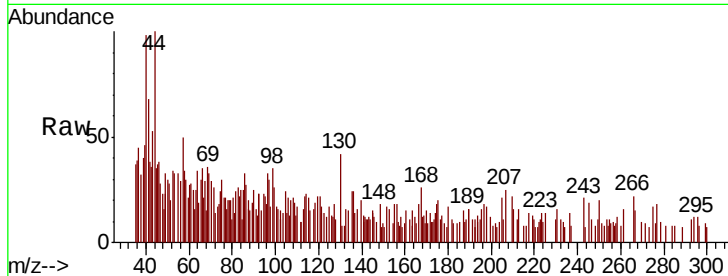
Tot Ion: 88 Resp: 391

Ion Ratio Lower Upper

88 100

43 45.3 25.8 38.6#

58 62.4 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

800

600

400

200

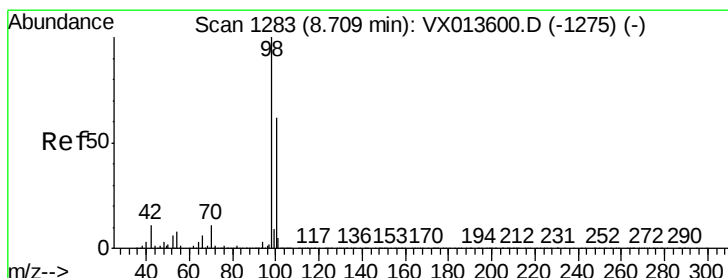
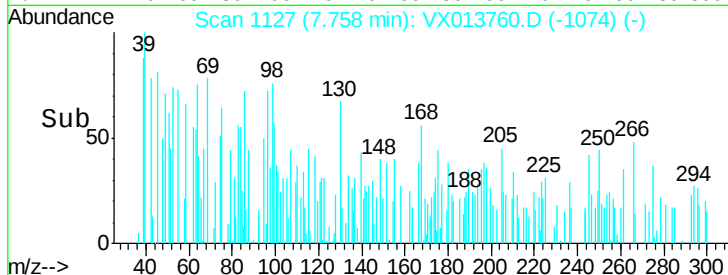
0

7.72

7.74

7.76

Time-->



#50

Toluene-d8

Concen: 48.799 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX013760.D

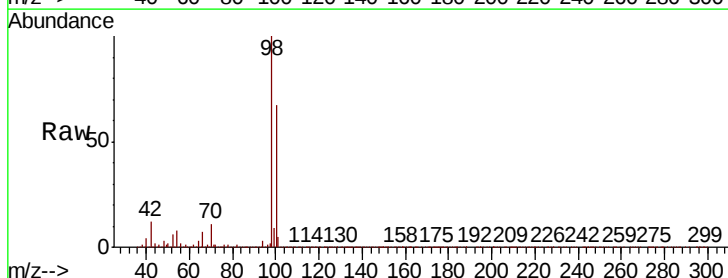
Acq: 04 Dec 2019 19:23

Tgt Ion: 98 Resp: 1216690

Ion Ratio Lower Upper

98 100

100 65.9 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

800000

600000

400000

200000

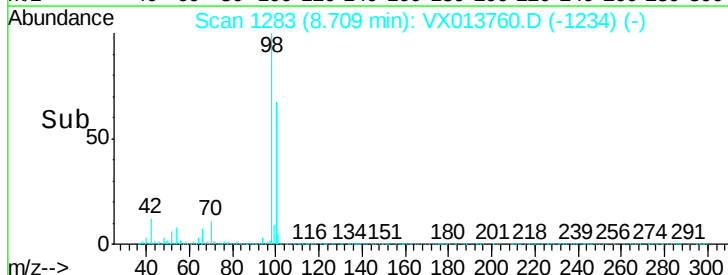
0

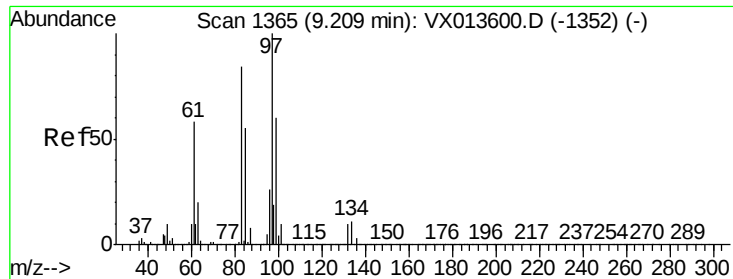
8.60

8.70

8.80

Time-->

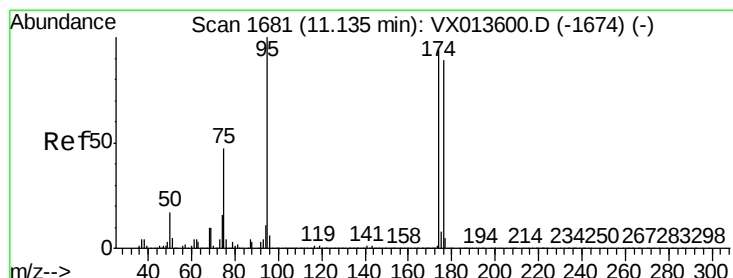
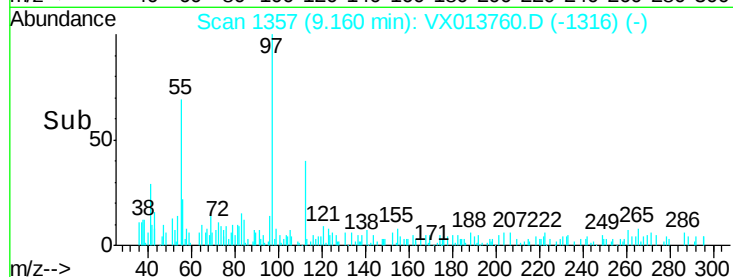
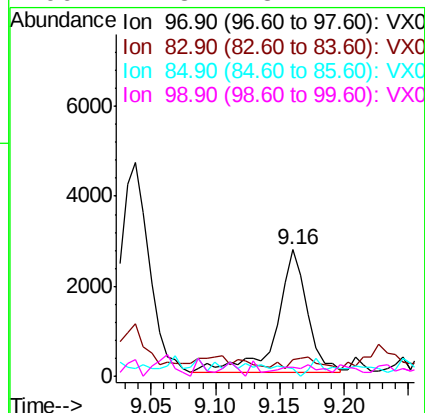
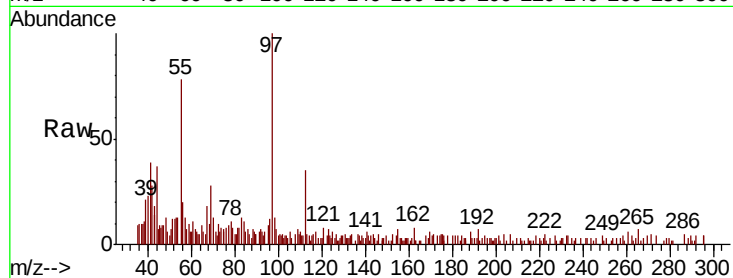




#55
 1,1,2-Trichloroethane
 Concen: 0.640 ug/l
 RT: 9.16 min Scan# 1357
 Delta R.T. -0.05 min
 Lab File: VX013760.D
 Acq: 04 Dec 2019 19:23

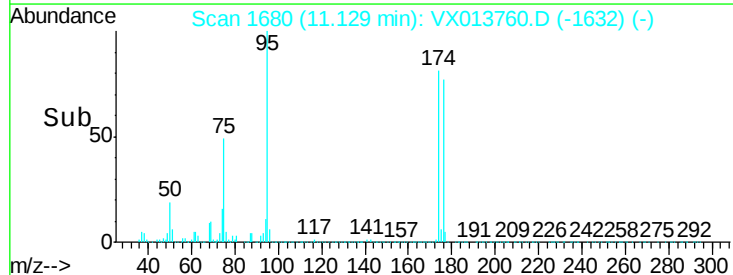
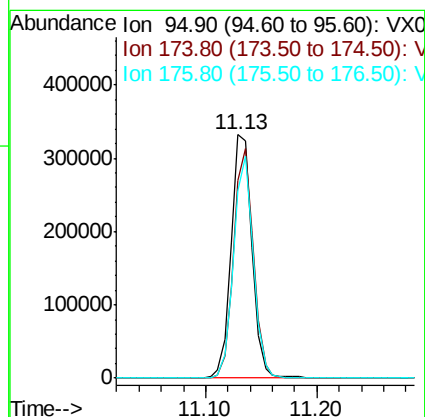
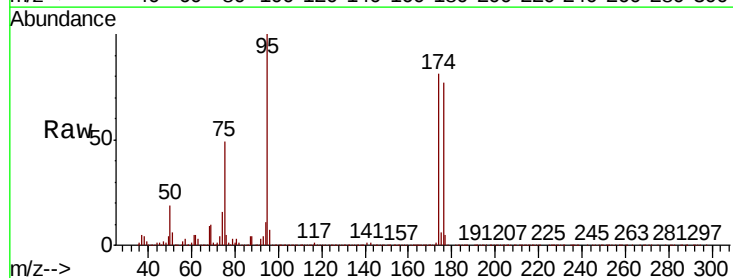
Instrument :
 MSVOA_X
 ClientSampleId :
 OWL-C7-GW

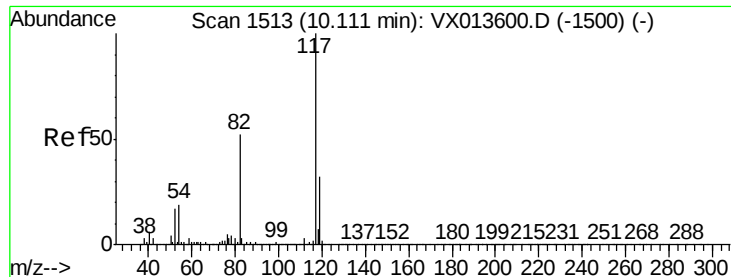
Tot Ion:	97	Resp:	4588
Ion	Ratio	Lower	Upper
97	100		
83	8.1	67.3	100.9#
85	0.0	43.6	65.4#
99	7.3	48.2	72.4#



#62
 4-Bromofluorobenzene
 Concen: 47.563 ug/l
 RT: 11.13 min Scan# 1680
 Delta R.T. -0.01 min
 Lab File: VX013760.D
 Acq: 04 Dec 2019 19:23

Tgt Ion:	95	Resp:	427625
Ion	Ratio	Lower	Upper
95	100		
174	90.1	0.0	180.0
176	86.8	0.0	173.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX013760.D

Acq: 04 Dec 2019 19:23

Instrument :

MSVOA_X

ClientSampleId :

OWL-C7-GW

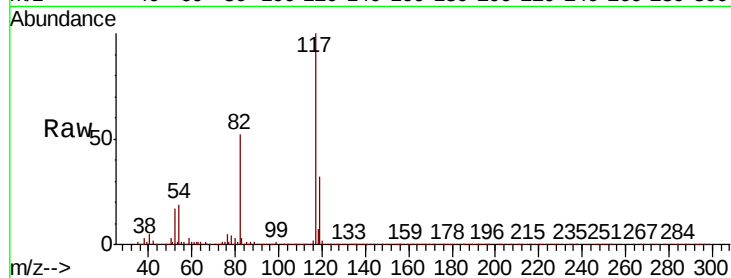
Tot Ion:117 Resp: 919229

Ion Ratio Lower Upper

117 100

82 52.2 41.8 62.8

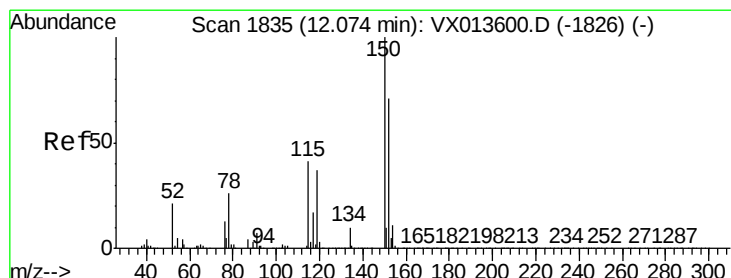
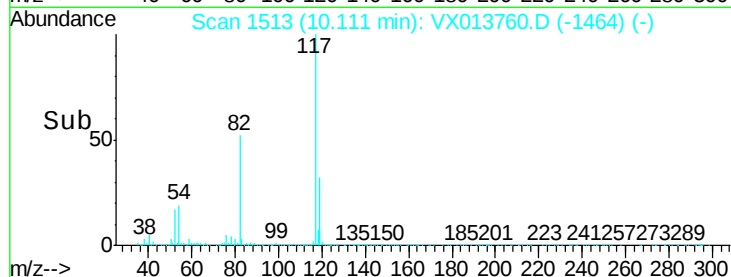
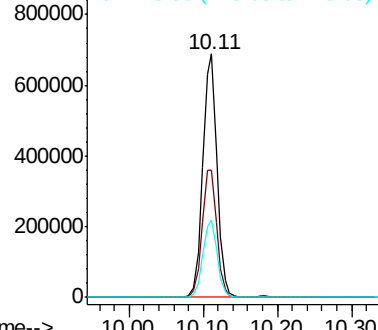
119 31.6 25.8 38.8



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: VX013760.D

Acq: 04 Dec 2019 19:23

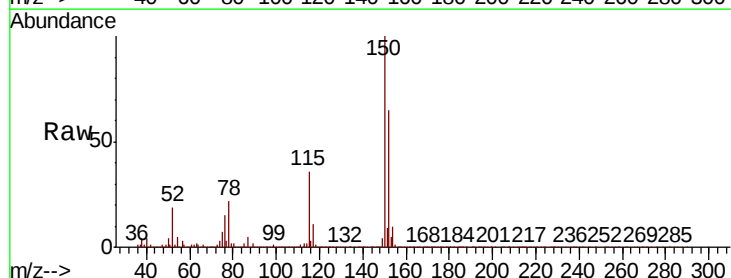
Tgt Ion:152 Resp: 436269

Ion Ratio Lower Upper

152 100

115 55.7 38.4 115.1

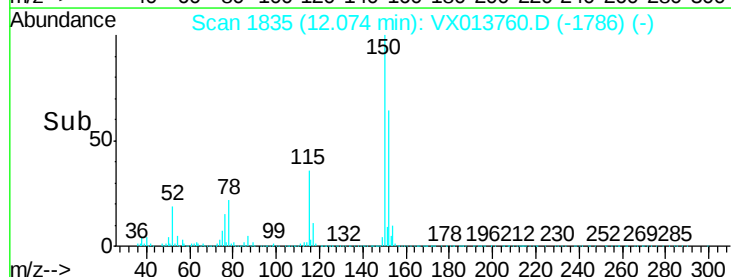
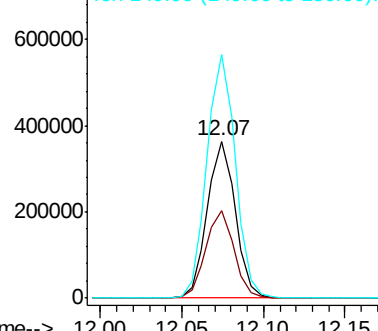
150 157.1 0.0 346.8

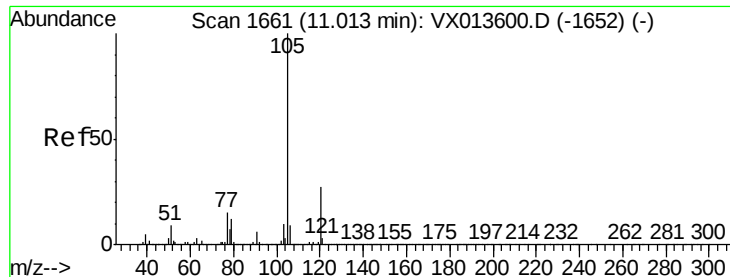


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 1.231 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VX013760.D

Acq: 04 Dec 2019 19:23

Instrument :

MSVOA_X

ClientSampleId :

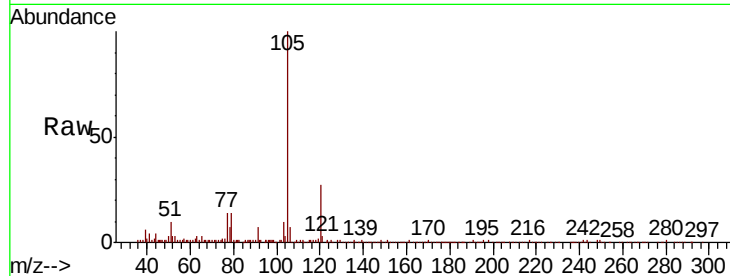
OWL-C7-GW

Tot Ion:105 Resp: 37666

Ion Ratio Lower Upper

105 100

120 29.4 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.01

30000

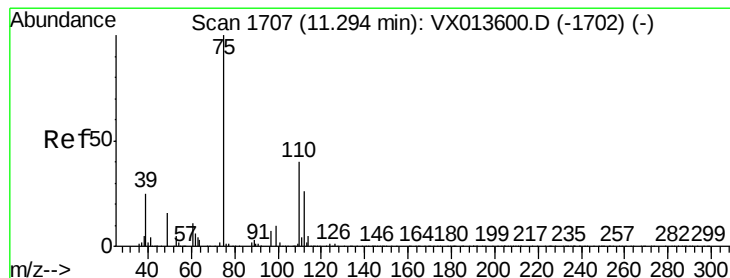
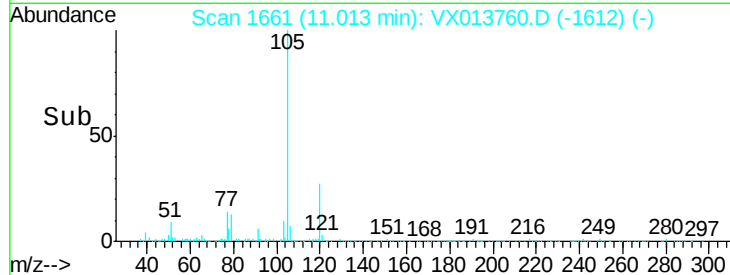
20000

10000

0

Time-->

10.95 11.00 11.05



#76

1,2,3-Trichloropropane

Concen: 21.147 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX013760.D

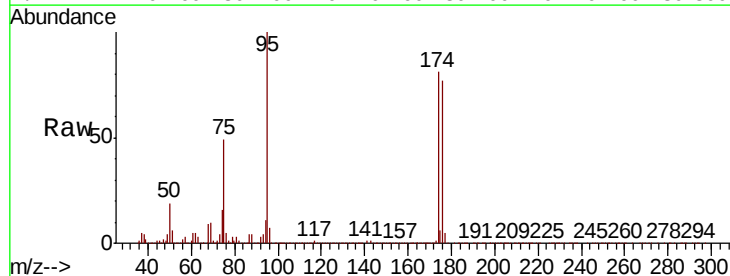
Acq: 04 Dec 2019 19:23

Tgt Ion: 75 Resp: 207507

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

150000

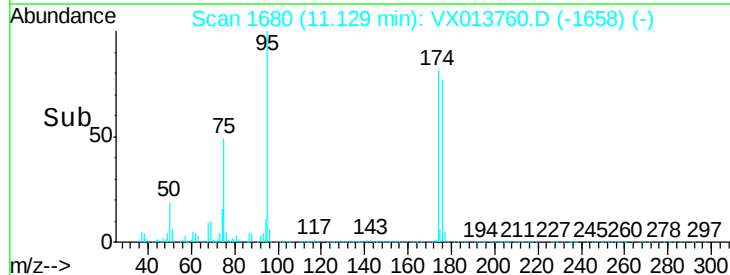
100000

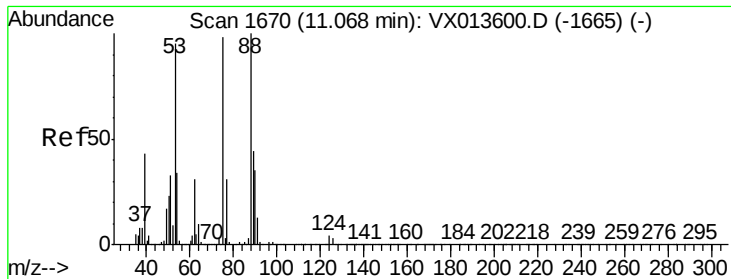
50000

0

Time-->

11.05 11.10 11.15 11.20

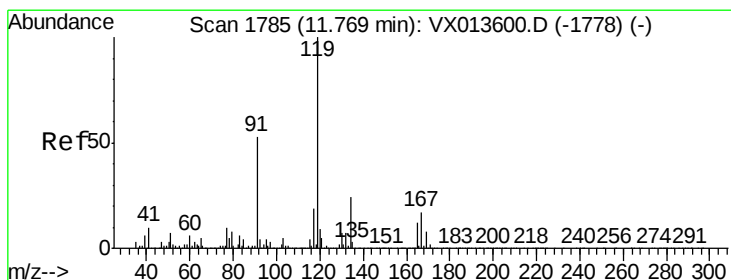
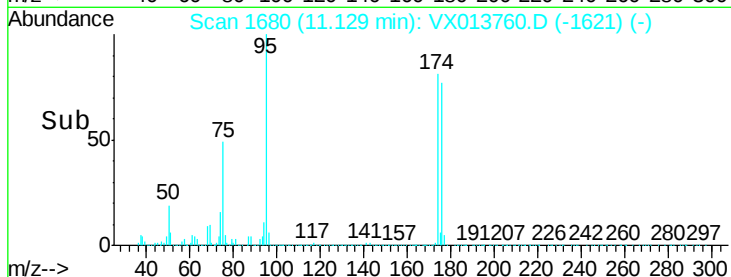
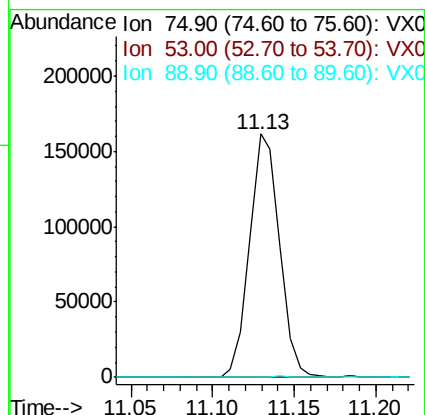
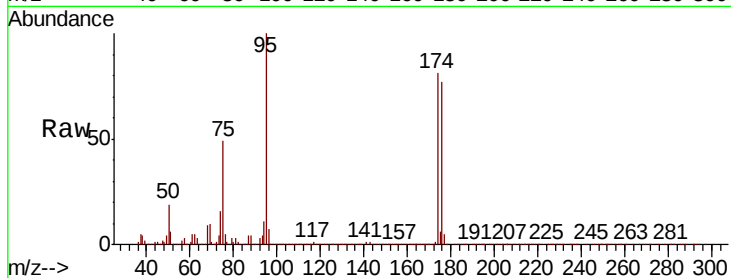




#81
trans-1,4-Dichloro-2-butene
Concen: 57.855 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX013760.D
Acq: 04 Dec 2019 19:23

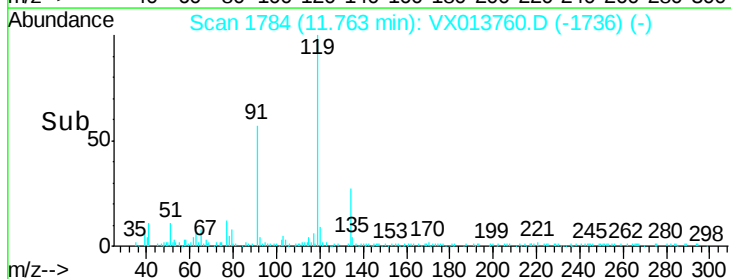
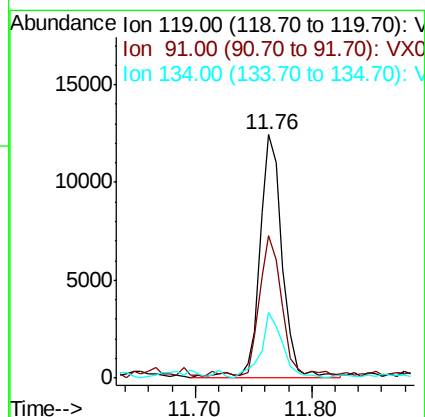
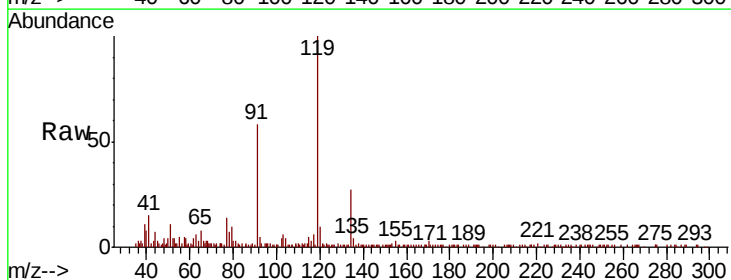
Instrument :
MSVOA_X
ClientSampleId :
OWL-C7-GW

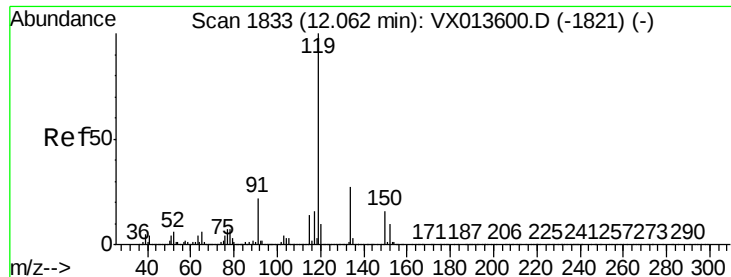
Tot Ion	Ratio	Lower	Upper
75	100		
53	0.1	78.2	117.2#
89	0.4	35.4	53.2#



#83
tert-Butylbenzene
Concen: 0.656 ug/l
RT: 11.76 min Scan# 1784
Delta R.T. -0.01 min
Lab File: VX013760.D
Acq: 04 Dec 2019 19:23

Tgt Ion	Ratio	Lower	Upper
119	100		
91	54.9	27.2	81.6
134	26.3	11.7	35.1

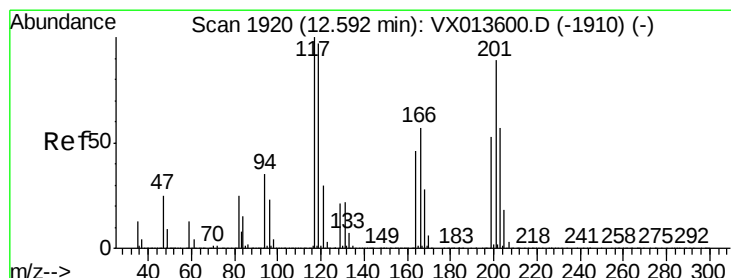
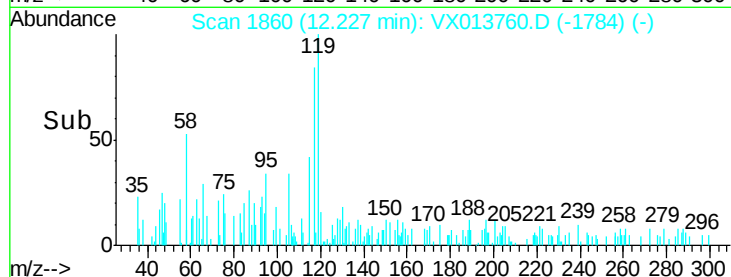
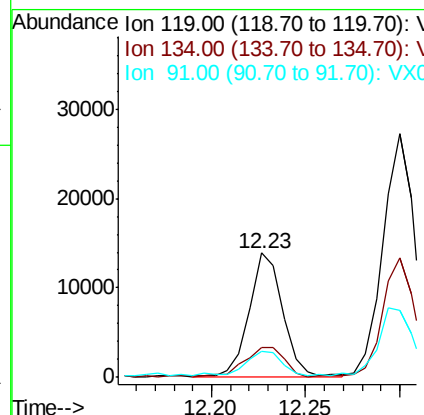
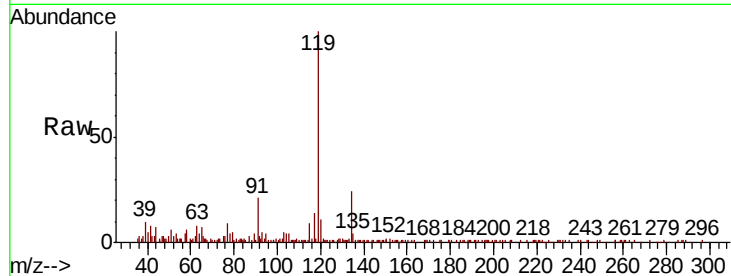




#86
p-Isopropyltoluene
Concen: 0.649 ug/l
RT: 12.23 min Scan# 1860
Delta R.T. 0.16 min
Lab File: VX013760.D
Acq: 04 Dec 2019 19:23

Instrument :
MSVOA_X
ClientSampleId :
OWL-C7-GW

Tot Ion	Ratio	Lower	Upper
119	100		
134	28.2	13.3	39.9
91	22.1	11.3	33.8



#90
Hexachloroethane
Concen: 0.899 ug/l
RT: 12.67 min Scan# 1932
Delta R.T. 0.07 min
Lab File: VX013760.D
Acq: 04 Dec 2019 19:23

Tgt Ion	Ratio	Lower	Upper
117	100		
201	5.1	44.1	132.4#

