

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101019\
 Data File : VX012987.D
 Acq On : 10 Oct 2019 11:50
 Operator : JC/SP
 Sample : K5213-09DL 100X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 W-1DL

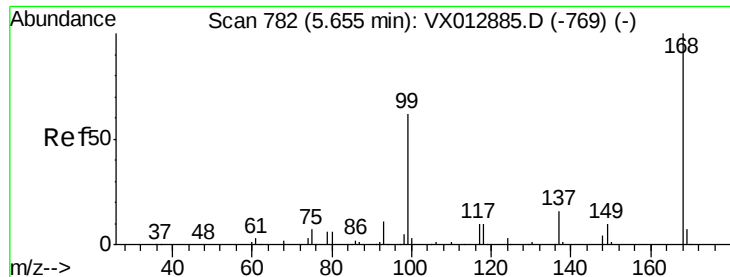
Quant Time: Oct 11 04:35:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 01:51:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	183227	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	303341	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	259987	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	101939	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	117197	51.18	ug/l	0.00
Spiked Amount						
			Recovery	=	102.36%	
35) Dibromofluoromethane	5.49	113	89909	51.64	ug/l	0.00
Spiked Amount						
			Recovery	=	103.28%	
50) Toluene-d8	8.71	98	358220	52.75	ug/l	0.00
Spiked Amount						
			Recovery	=	105.50%	
62) 4-Bromofluorobenzene	11.14	95	123012	46.62	ug/l	0.00
Spiked Amount						
			Recovery	=	93.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	112517	53.632	ug/l	98
5) Bromomethane	1.63	94	428	0.491	ug/l #	79
6) Chloroethane	1.71	64	599	0.832	ug/l	92
10) Methyl Iodide	2.50	142	371	5.242	ug/l #	55
11) Tert butyl alcohol	3.00	59	1985	3.270	ug/l #	72
16) Acetone	2.43	43	595	0.493	ug/l	97
27) cis-1,2-Dichloroethene	4.59	96	197708	86.426	ug/l	90
31) Cyclohexane	5.65	56	3835	1.154	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	15318	5.744	ug/l #	50
38) Carbon Tetrachloride	5.65	117	19034	7.332	ug/l #	17
51) 4-Methyl-2-Pentanone	8.70	43	1298	0.435	ug/l #	1
60) Dibromochloromethane	9.34	129	75	1.890	ug/l #	10
71) Bromoform	11.12	173	28	3.150	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	61364	27.140	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	61364	68.174	ug/l #	10
90) Hexachloroethane	12.75	117	606	2.596	ug/l #	13

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX012987.D

Acq: 10 Oct 2019 11:50

Instrument :

MSVOA_X

ClientSampleId :

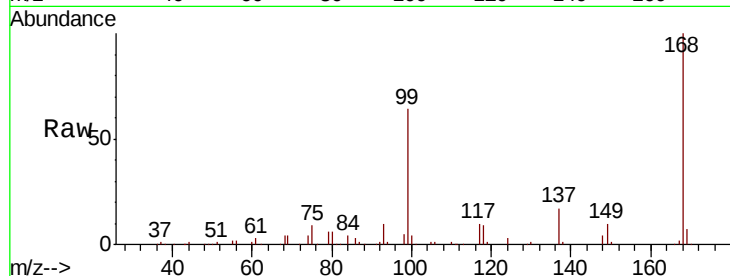
W-1DL

Tot Ion:168 Resp: 183227

Ion Ratio Lower Upper

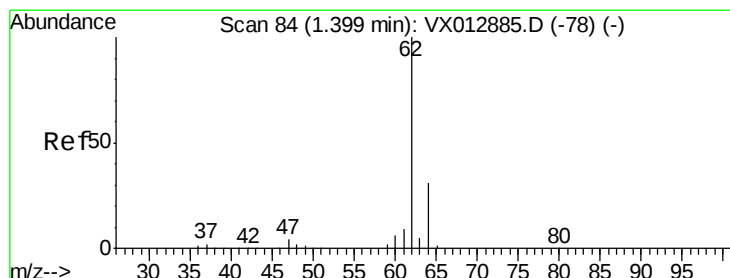
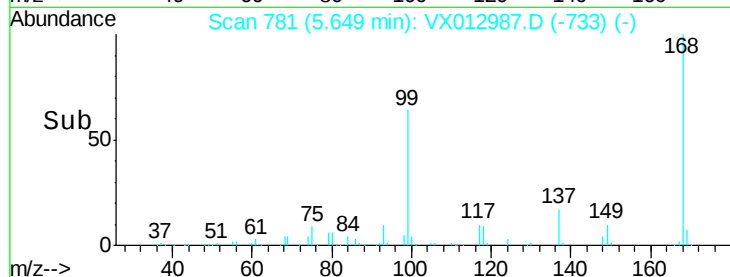
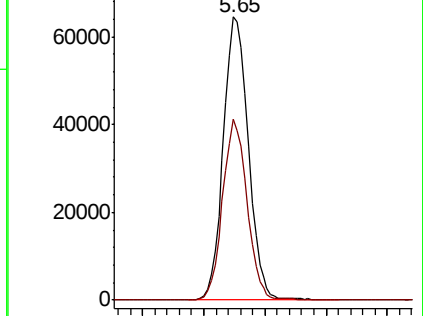
168 100

99 63.9 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 53.632 ug/l

RT: 1.40 min Scan# 84

Delta R.T. 0.00 min

Lab File: VX012987.D

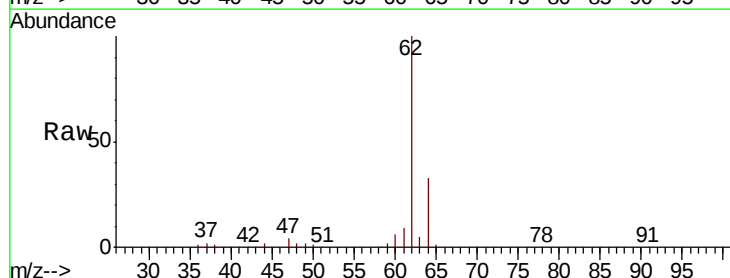
Acq: 10 Oct 2019 11:50

Tgt Ion: 62 Resp: 112517

Ion Ratio Lower Upper

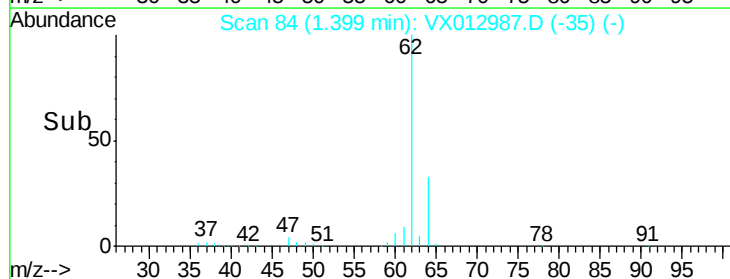
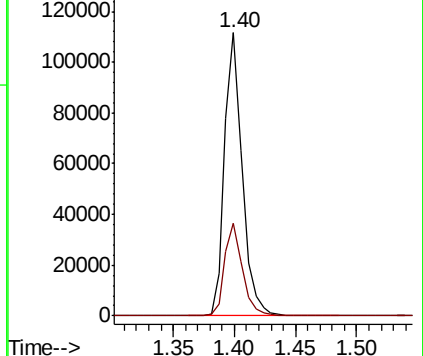
62 100

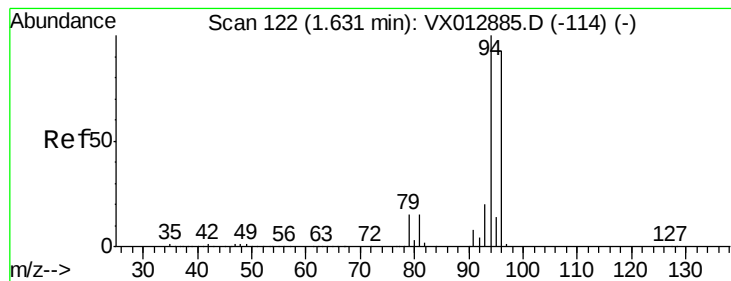
64 32.8 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.491 ug/l

RT: 1.63 min Scan# 122

Delta R.T. 0.00 min

Lab File: VX012987.D

Acq: 10 Oct 2019 11:50

Instrument :

MSVOA_X

ClientSampled :

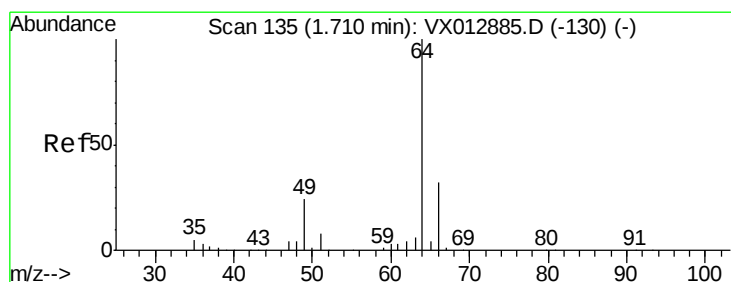
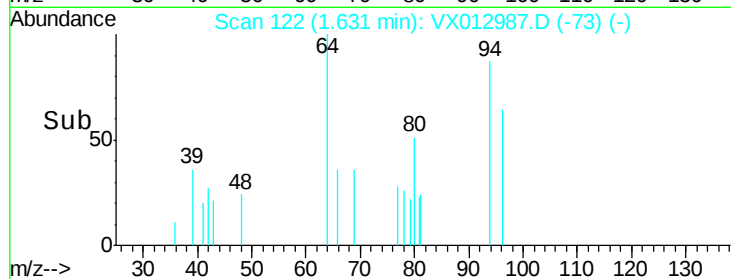
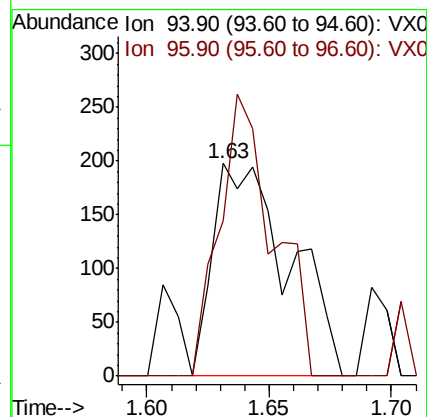
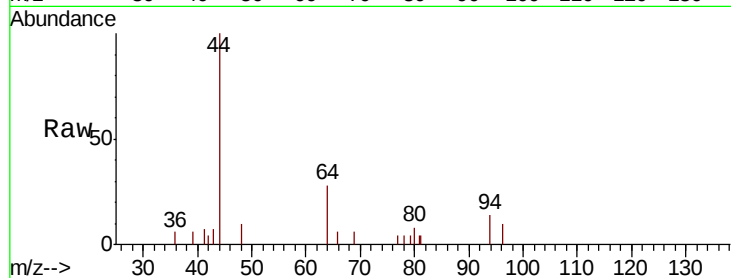
W-1DL

Tot Ion: 94 Resp: 428

Ion Ratio Lower Upper

94 100

96 73.2 74.7 112.1#



#6

Chloroethane

Concen: 0.832 ug/l

RT: 1.71 min Scan# 135

Delta R.T. 0.00 min

Lab File: VX012987.D

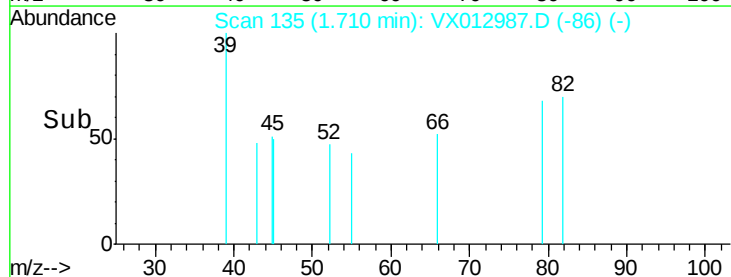
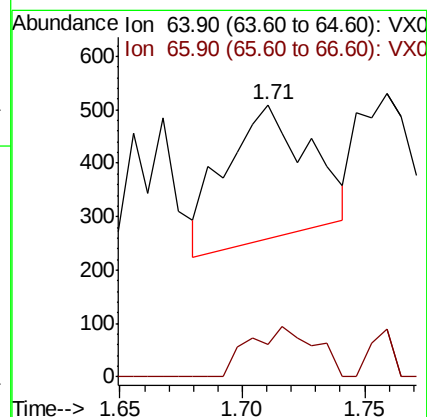
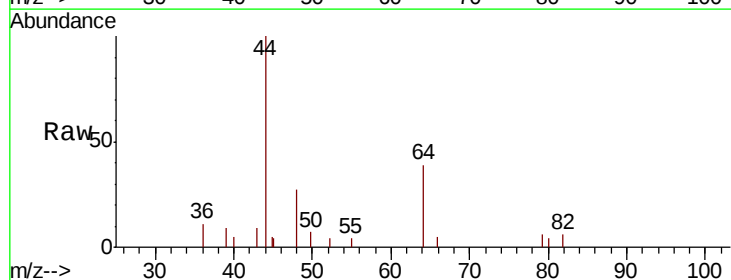
Acq: 10 Oct 2019 11:50

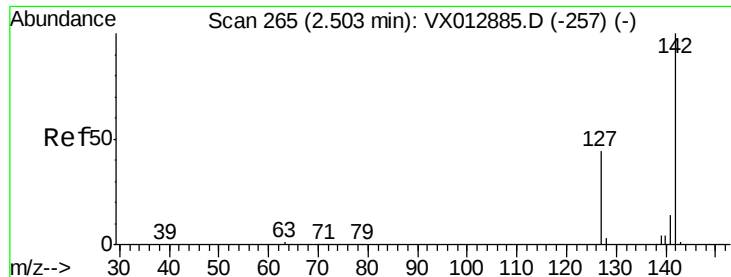
Tgt Ion: 64 Resp: 599

Ion Ratio Lower Upper

64 100

66 27.8 25.6 38.4

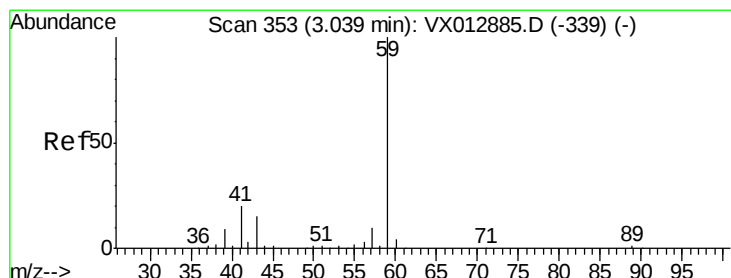
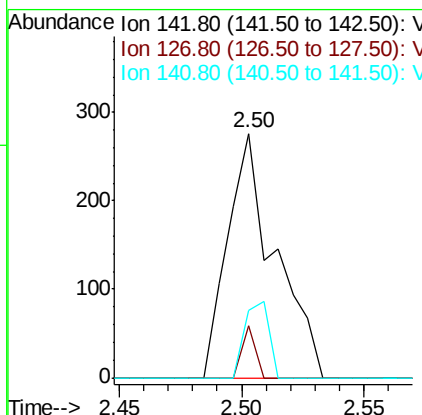
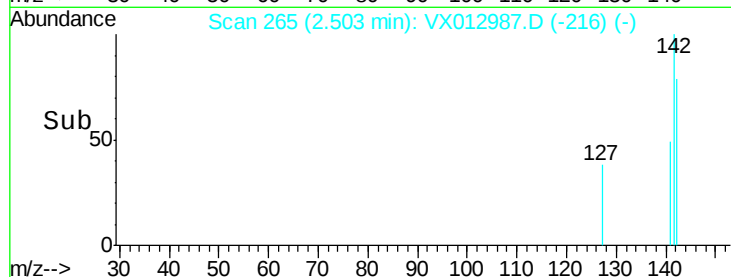
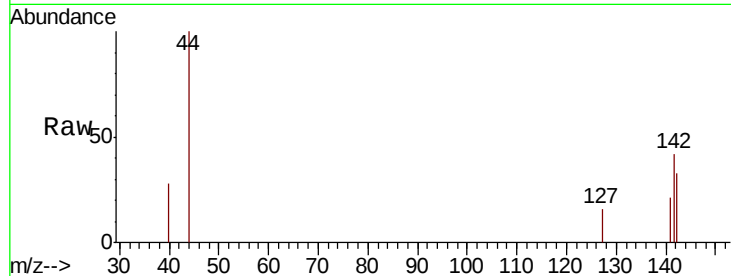




#10
Methvl Iodide
Concen: 5.242 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.00 min
Lab File: VX012987.D
Acq: 10 Oct 2019 11:50

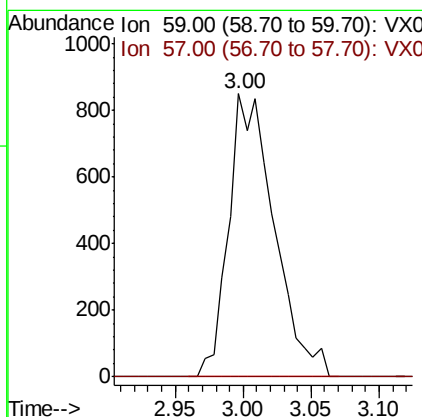
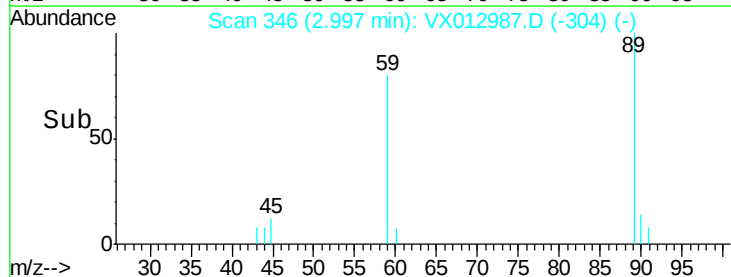
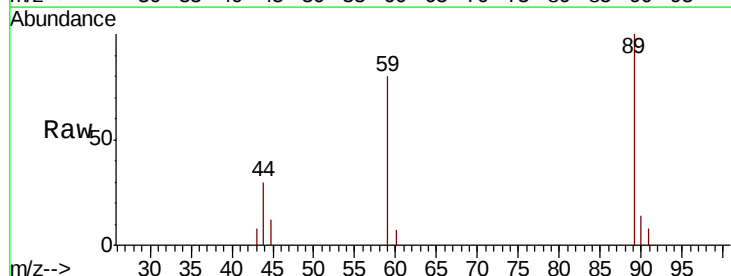
Instrument :
MSVOA_X
ClientSampled :
W-1DL

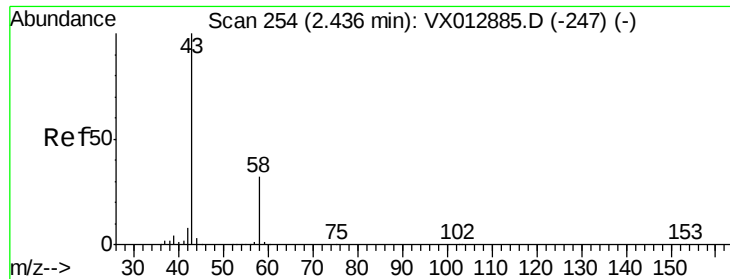
Tot Ion:142 Resp: 371
Ion Ratio Lower Upper
142 100
127 5.7 34.9 52.3#
141 15.9 11.6 17.4



#11
Tert butyl alcohol
Concen: 3.270 ug/l
RT: 3.00 min Scan# 346
Delta R.T. -0.04 min
Lab File: VX012987.D
Acq: 10 Oct 2019 11:50

Tgt Ion: 59 Resp: 1985
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#16

Acetone

Concen: 0.493 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012987.D

Acq: 10 Oct 2019 11:50

Instrument :

MSVOA_X

ClientSampled :

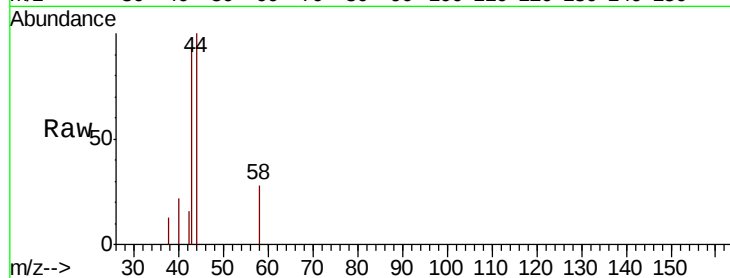
W-1DL

Tot Ion: 43 Resp: 595

Ion Ratio Lower Upper

43 100

58 30.2 25.4 38.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.43

400

300

200

100

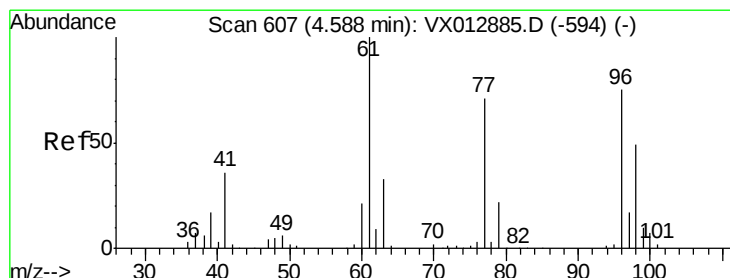
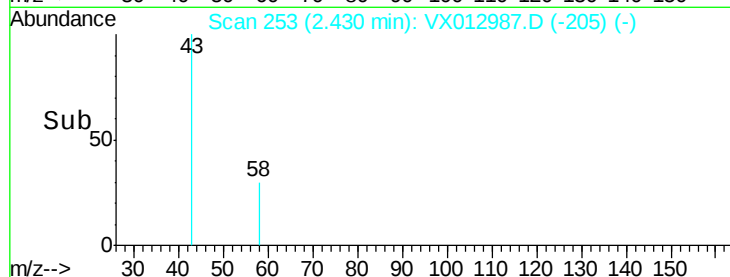
0

Time-->

2.40

2.45

2.50



#27

cis-1,2-Dichloroethene

Concen: 86.426 ug/l

RT: 4.59 min Scan# 607

Delta R.T. 0.00 min

Lab File: VX012987.D

Acq: 10 Oct 2019 11:50

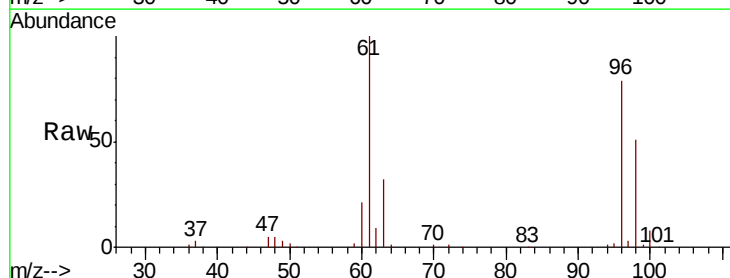
Tgt Ion: 96 Resp: 197708

Ion Ratio Lower Upper

96 100

61 128.1 0.0 290.6

98 64.4 0.0 128.8



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

120000

100000

80000

60000

40000

20000

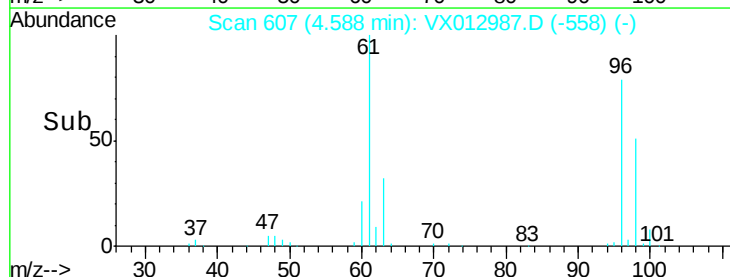
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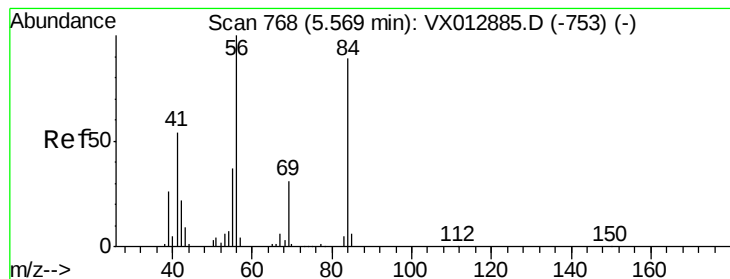
Time-->

4.50

4.60

4.70





#31

Cyclohexane

Concen: 1.154 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.09 min

Lab File: VX012987.D

Acq: 10 Oct 2019 11:50

Instrument :

MSVOA_X

ClientSampleId :

W-1DL

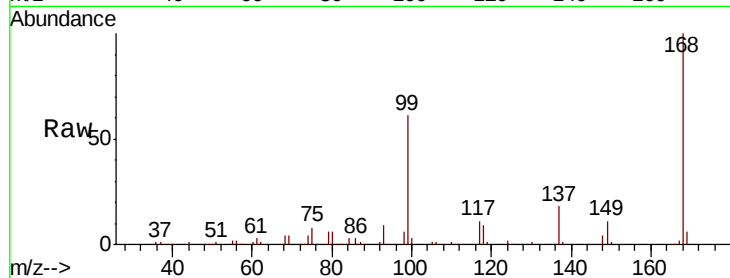
Tot Ion: 56 Resp: 3835

Ion Ratio Lower Upper

56 100

69 171.6 25.2 37.8#

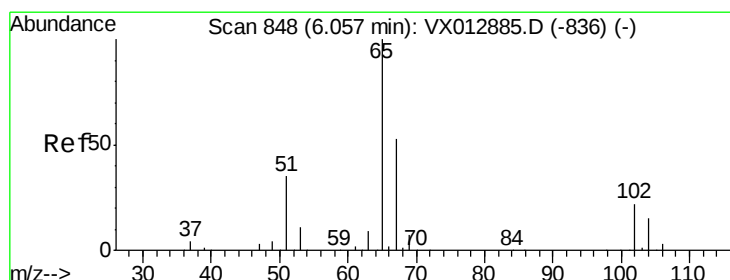
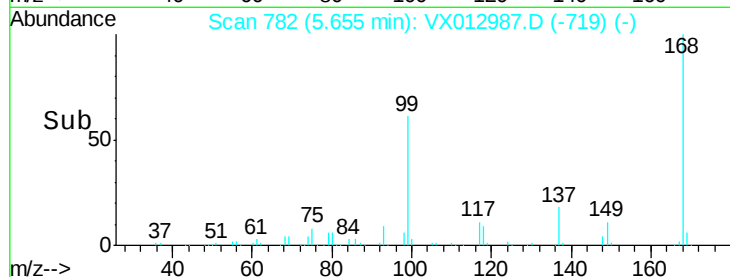
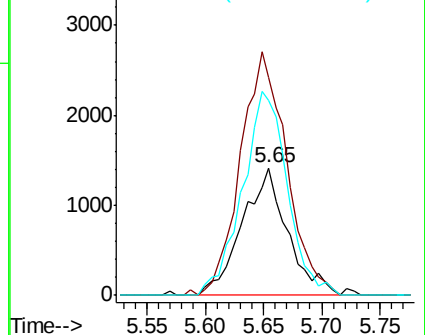
84 153.5 71.3 106.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 51.175 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.00 min

Lab File: VX012987.D

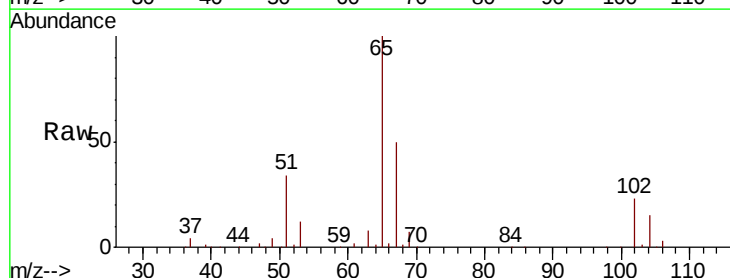
Acq: 10 Oct 2019 11:50

Tgt Ion: 65 Resp: 117197

Ion Ratio Lower Upper

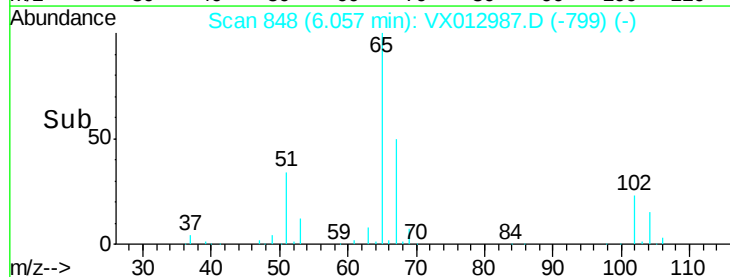
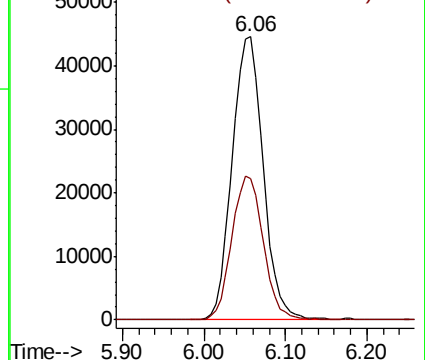
65 100

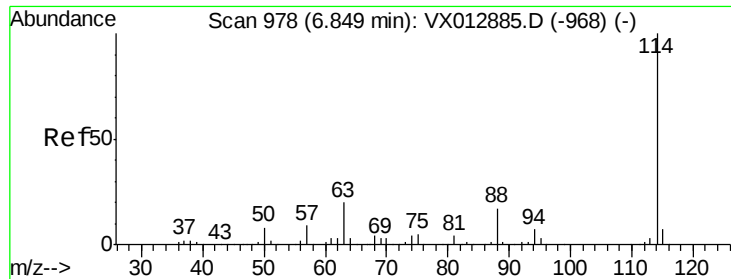
67 51.5 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

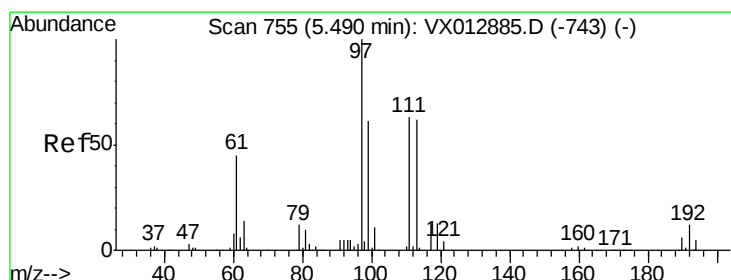
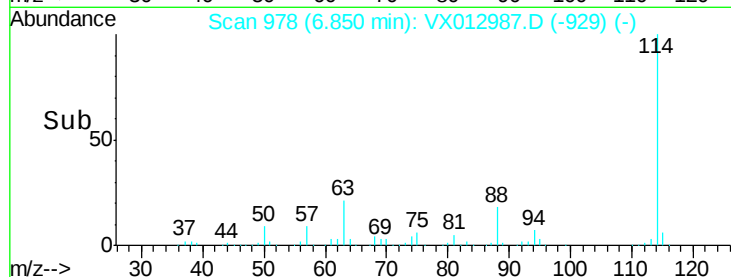
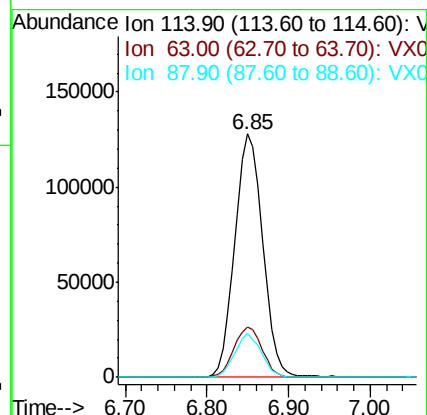
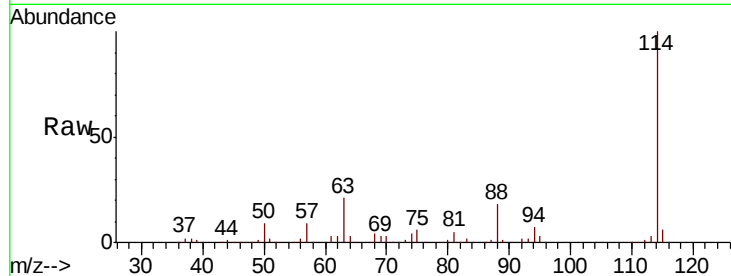




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012987.D
 Acq: 10 Oct 2019 11:50

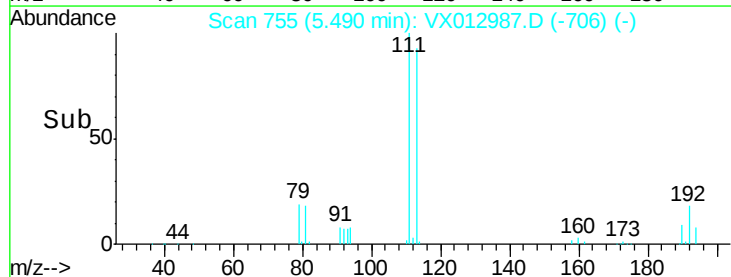
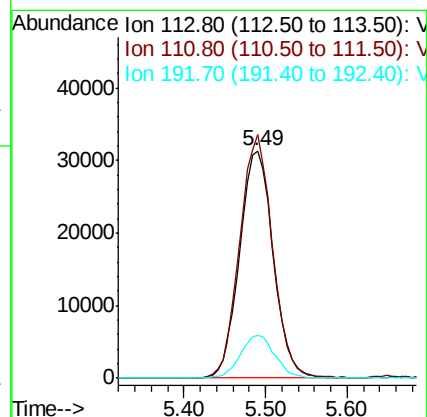
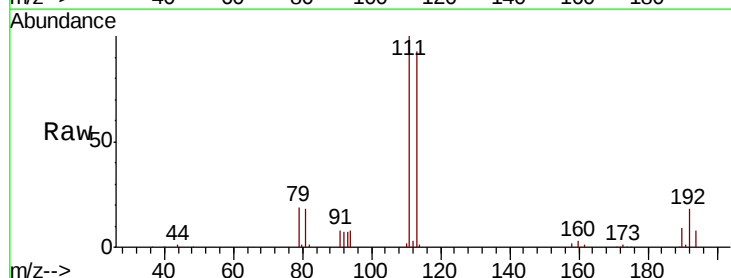
Instrument :
 MSVOA_X
 ClientSampleId :
 W-1DL

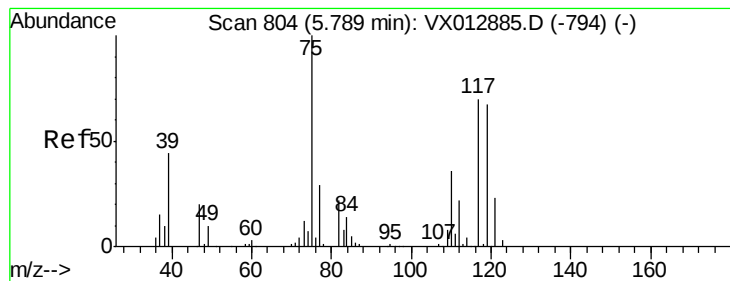
Tot Ion:114 Resp: 303341
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 40.8
 88 18.0 0.0 33.8



#35
 Dibromofluoromethane
 Concen: 51.642 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012987.D
 Acq: 10 Oct 2019 11:50

Tgt Ion:113 Resp: 89909
 Ion Ratio Lower Upper
 113 100
 111 104.2 83.2 124.8
 192 19.3 15.4 23.2





#36

1,1-Dichloropropene

Concen: 5.744 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012987.D

Acq: 10 Oct 2019 11:50

Instrument :

MSVOA_X

ClientSampleId :

W-1DL

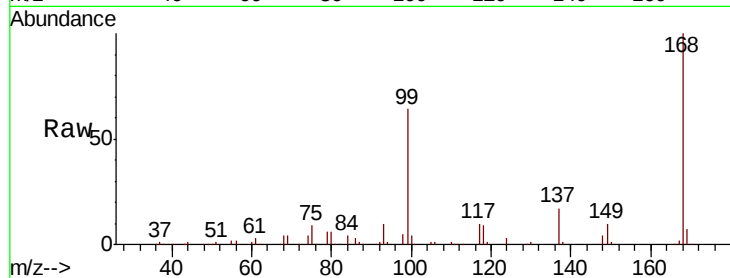
Tot Ion: 75 Resp: 15318

Ion Ratio Lower Upper

75 100

110 9.0 17.6 52.9#

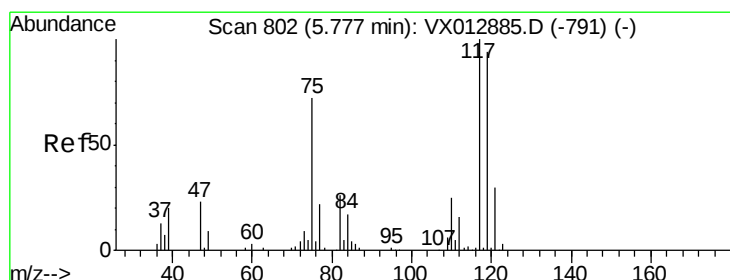
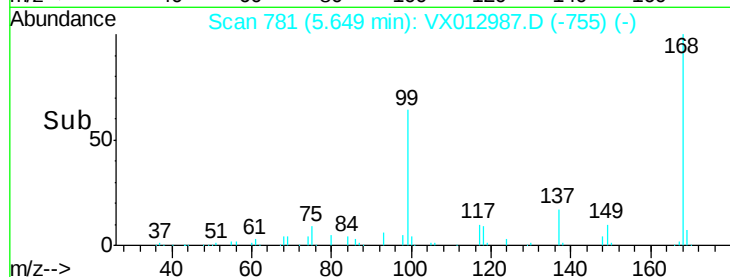
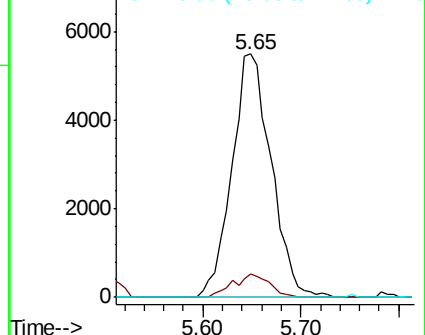
77 0.0 24.4 36.6#



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: 7.332 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012987.D

Acq: 10 Oct 2019 11:50

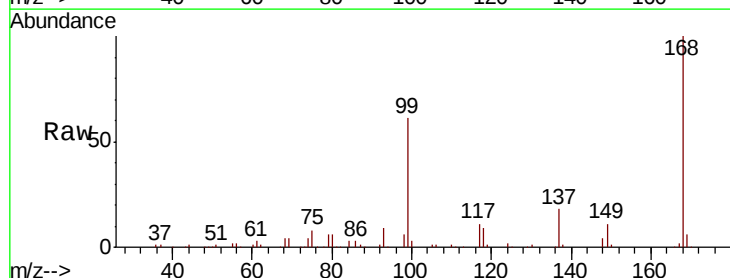
Tgt Ion: 117 Resp: 19034

Ion Ratio Lower Upper

117 100

119 4.9 74.5 111.7#

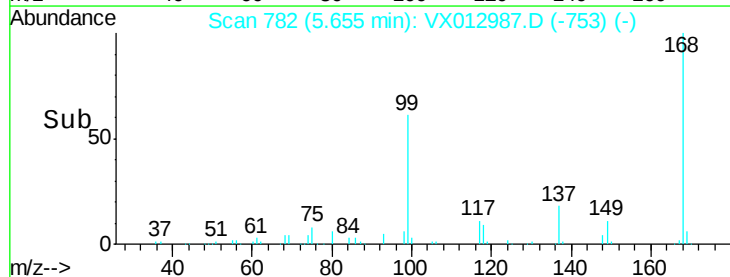
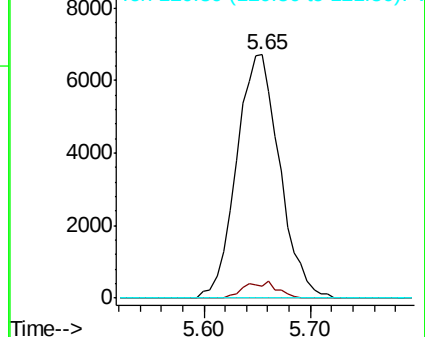
121 0.0 24.2 36.4#

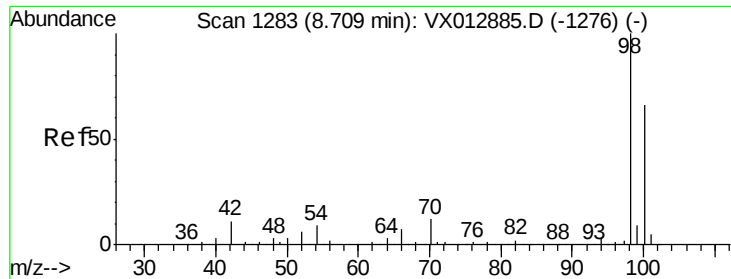


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 52.754 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012987.D

Acq: 10 Oct 2019 11:50

Instrument :

MSVOA_X

ClientSampled :

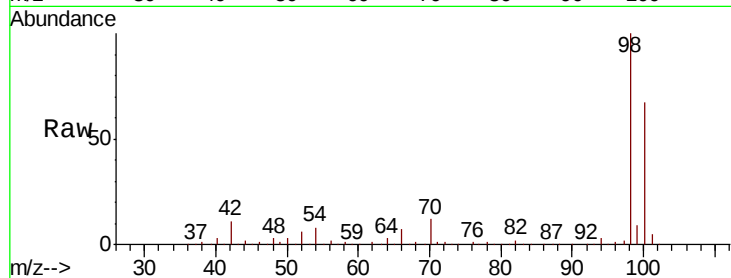
W-1DL

Tot Ion: 98 Resp: 358220

Ion Ratio Lower Upper

98 100

100 67.1 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

250000

200000

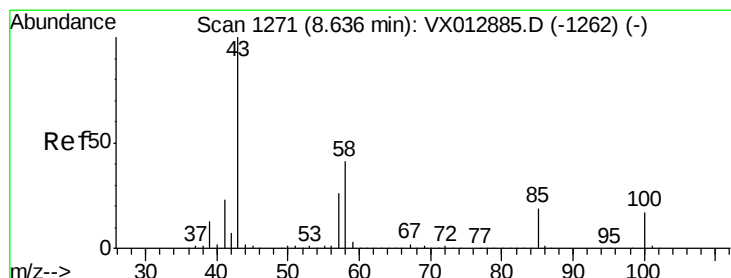
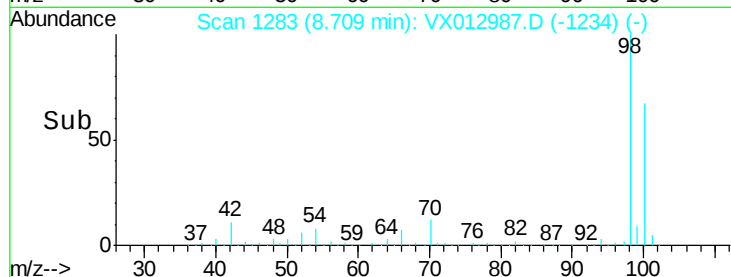
150000

100000

50000

0

Time--> 8.60 8.70 8.80



#51

4-Methyl-2-Pentanone

Concen: 0.435 ug/l

RT: 8.70 min Scan# 1282

Delta R.T. 0.07 min

Lab File: VX012987.D

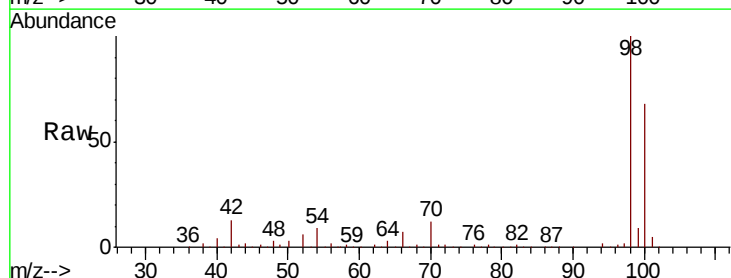
Acq: 10 Oct 2019 11:50

Tgt Ion: 43 Resp: 1298

Ion Ratio Lower Upper

43 100

58 243.4 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

3000

2500

2000

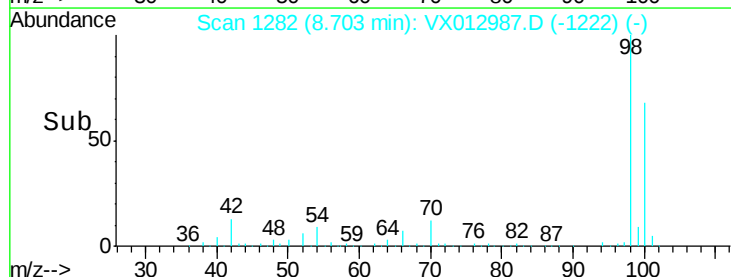
1500

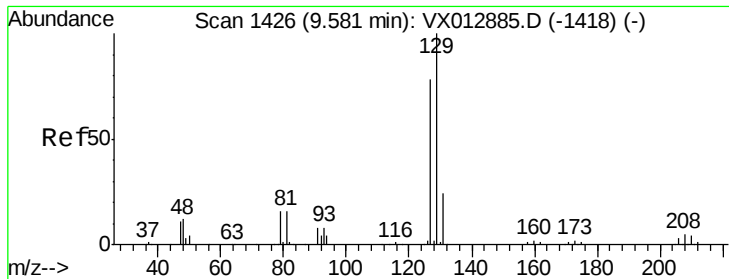
1000

500

0

Time--> 8.65 8.70 8.75





#60

Dibromochloromethane

Concen: 1.890 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. -0.24 min

Lab File: VX012987.D

Acq: 10 Oct 2019 11:50

Instrument :

MSVOA_X

ClientSampleId :

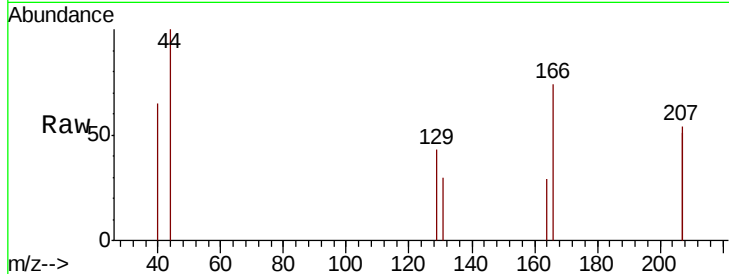
W-1DL

Tot Ion:129 Resp: 75

Ion Ratio Lower Upper

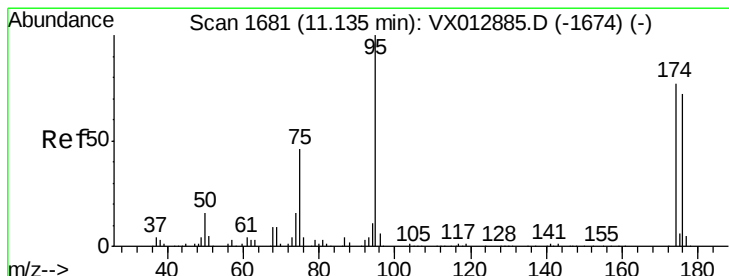
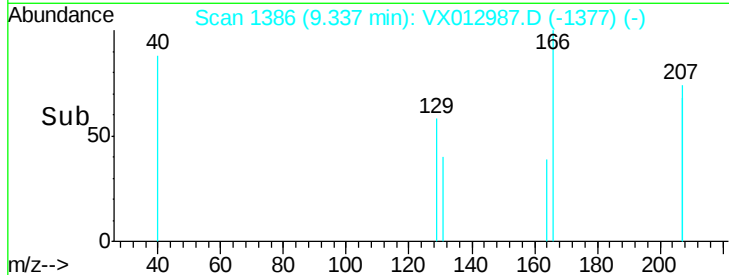
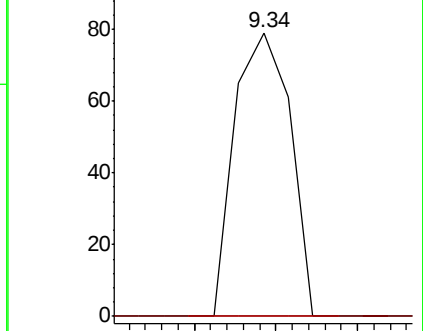
129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 46.623 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012987.D

Acq: 10 Oct 2019 11:50

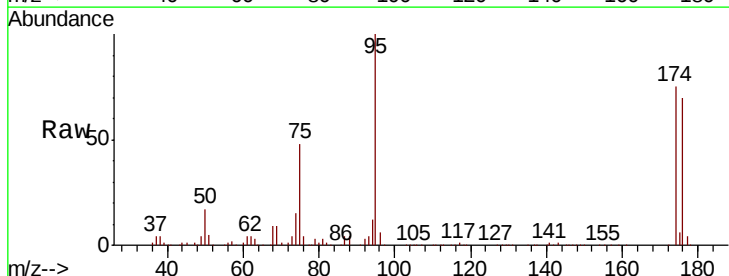
Tgt Ion: 95 Resp: 123012

Ion Ratio Lower Upper

95 100

174 71.9 0.0 143.4

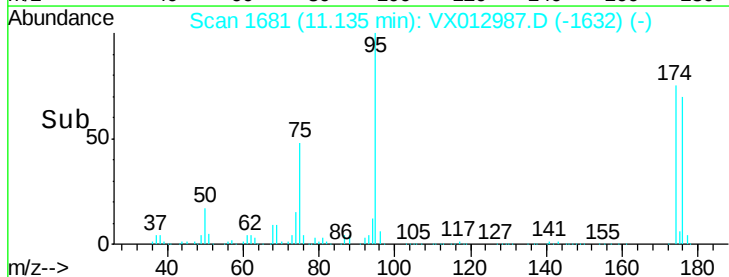
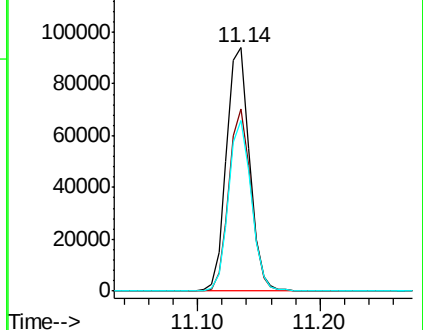
176 68.7 0.0 136.0

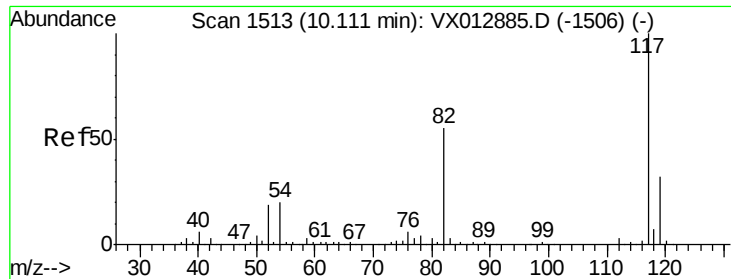


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

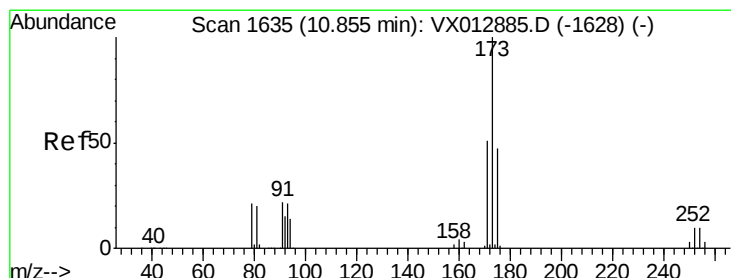
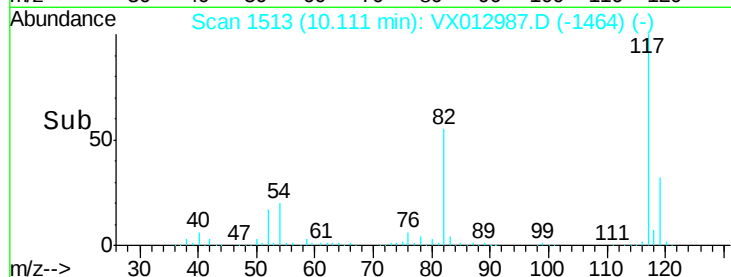
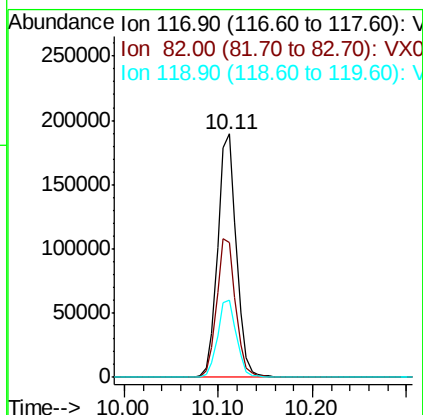
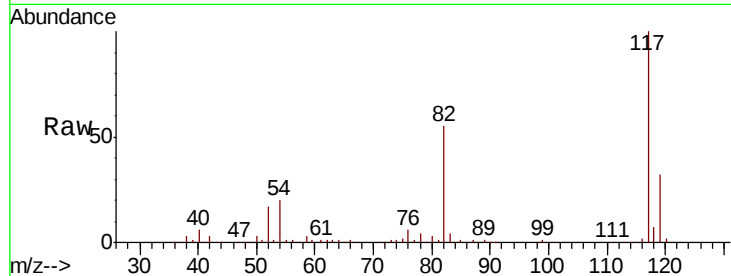




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012987.D
Acq: 10 Oct 2019 11:50

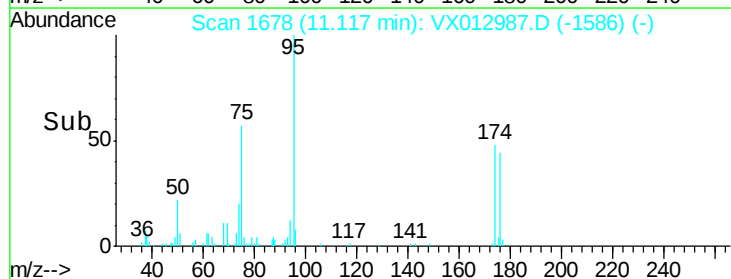
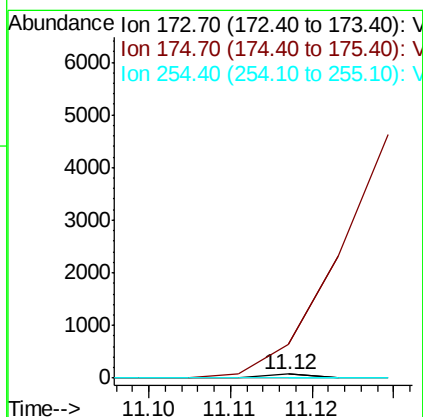
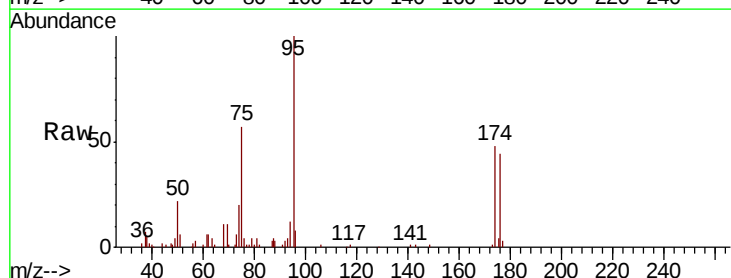
Instrument :
MSVOA_X
ClientSampleId :
W-1DL

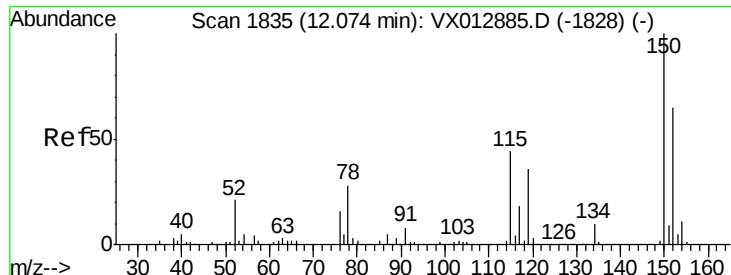
Tot Ion:117 Resp: 259987
Ion Ratio Lower Upper
117 100
82 55.2 44.1 66.1
119 31.6 25.8 38.8



#71
Bromoform
Concen: 3.150 ug/l
RT: 11.12 min Scan# 1678
Delta R.T. 0.26 min
Lab File: VX012987.D
Acq: 10 Oct 2019 11:50

Tgt Ion:173 Resp: 28
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.3#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012987.D

Acq: 10 Oct 2019 11:50

Instrument :

MSVOA_X

ClientSampleId :

W-1DL

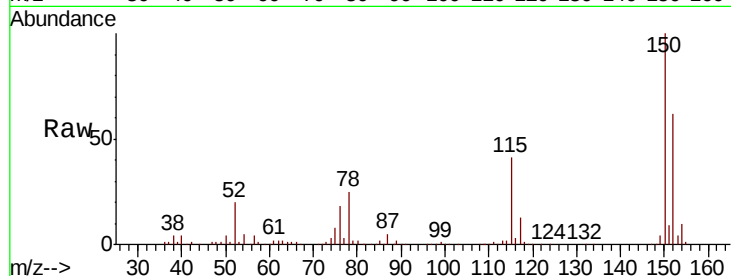
Tot Ion:152 Resp: 101939

Ion Ratio Lower Upper

152 100

115 65.8 44.5 133.5

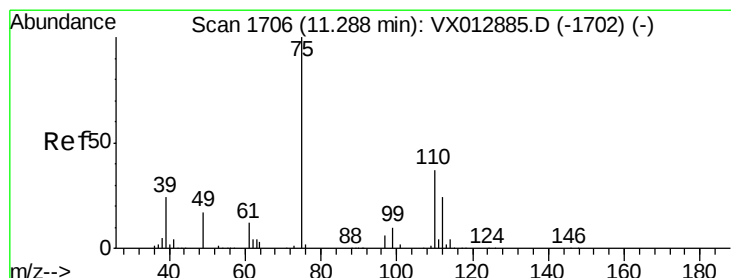
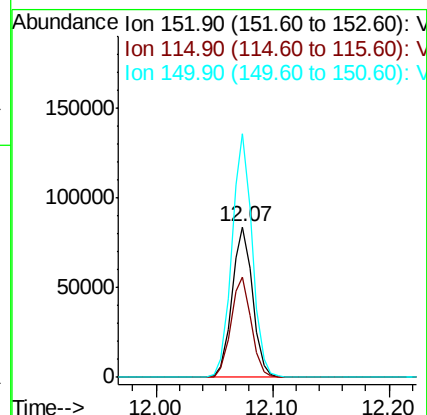
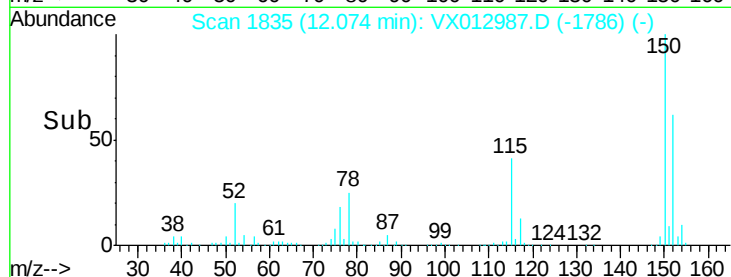
150 160.1 0.0 353.4



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



#76

1,2,3-Trichloropropane

Concen: 27.140 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012987.D

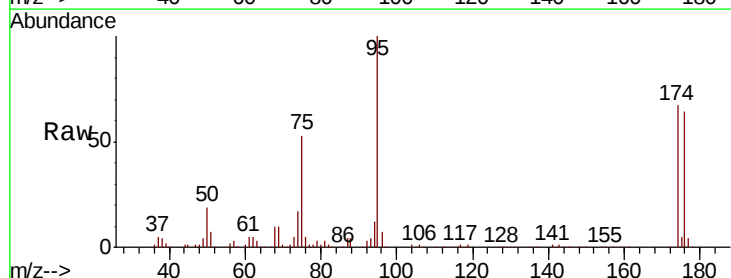
Acq: 10 Oct 2019 11:50

Tgt Ion: 75 Resp: 61364

Ion Ratio Lower Upper

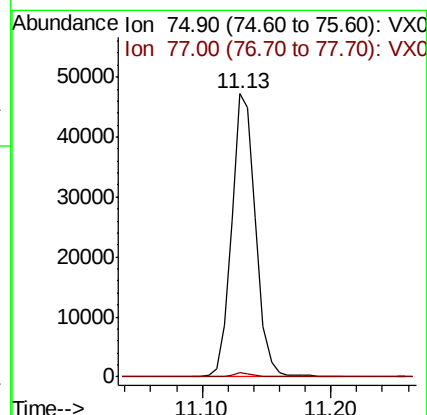
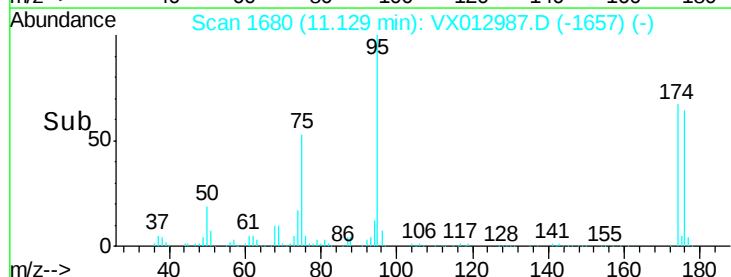
75 100

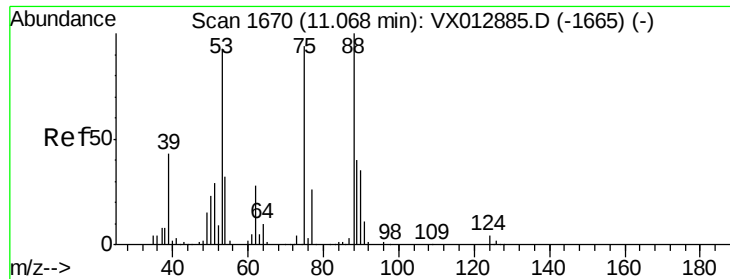
77 1.3 22.9 68.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 68.174 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012987.D

Acq: 10 Oct 2019 11:50

Instrument :

MSVOA_X

ClientSampleId :

W-1DL

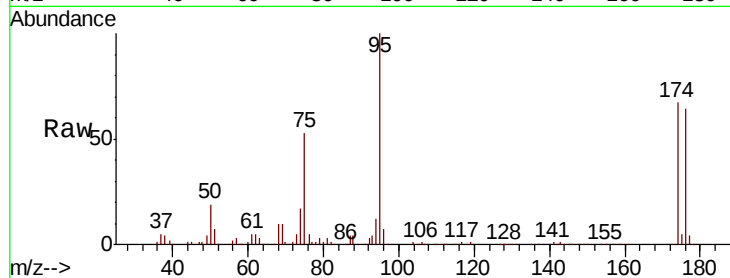
Tot Ion: 75 Resp: 61364

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

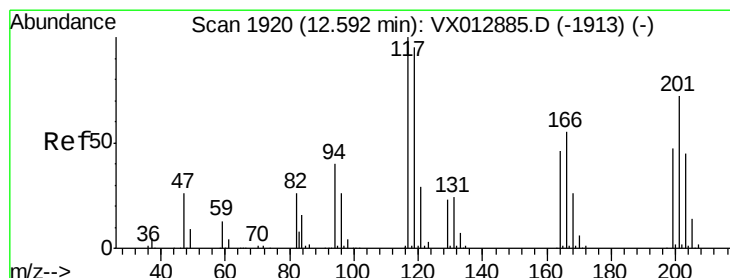
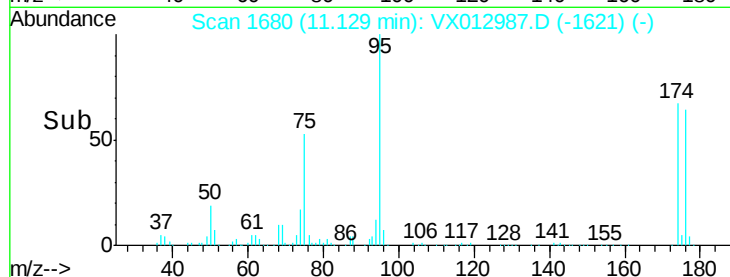
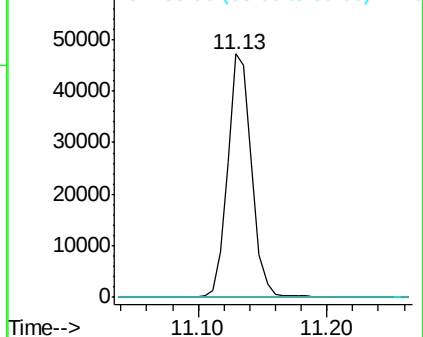
89 0.0 37.4 56.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#90

Hexachloroethane

Concen: 2.596 ug/l

RT: 12.75 min Scan# 1946

Delta R.T. 0.16 min

Lab File: VX012987.D

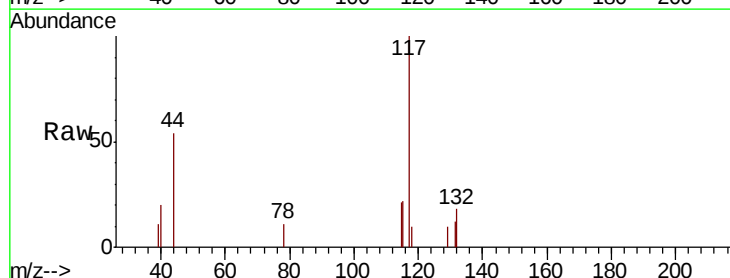
Acq: 10 Oct 2019 11:50

Tgt Ion: 117 Resp: 606

Ion Ratio Lower Upper

117 100

201 0.0 36.9 110.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

