

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101419\
 Data File : VX013051.D
 Acq On : 14 Oct 2019 14:56
 Operator : JC/SP
 Sample : K5312-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 15 01:25:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 11 09:48:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	178422	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	291757	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	247203	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	94489	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	109109	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
35) Dibromofluoromethane	5.49	113	85905	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	
50) Toluene-d8	8.71	98	336057	51.46	ug/l	0.00
Spiked Amount			Recovery	=	102.92%	
62) 4-Bromofluorobenzene	11.14	95	109357	43.09	ug/l	0.00
Spiked Amount			Recovery	=	86.18%	

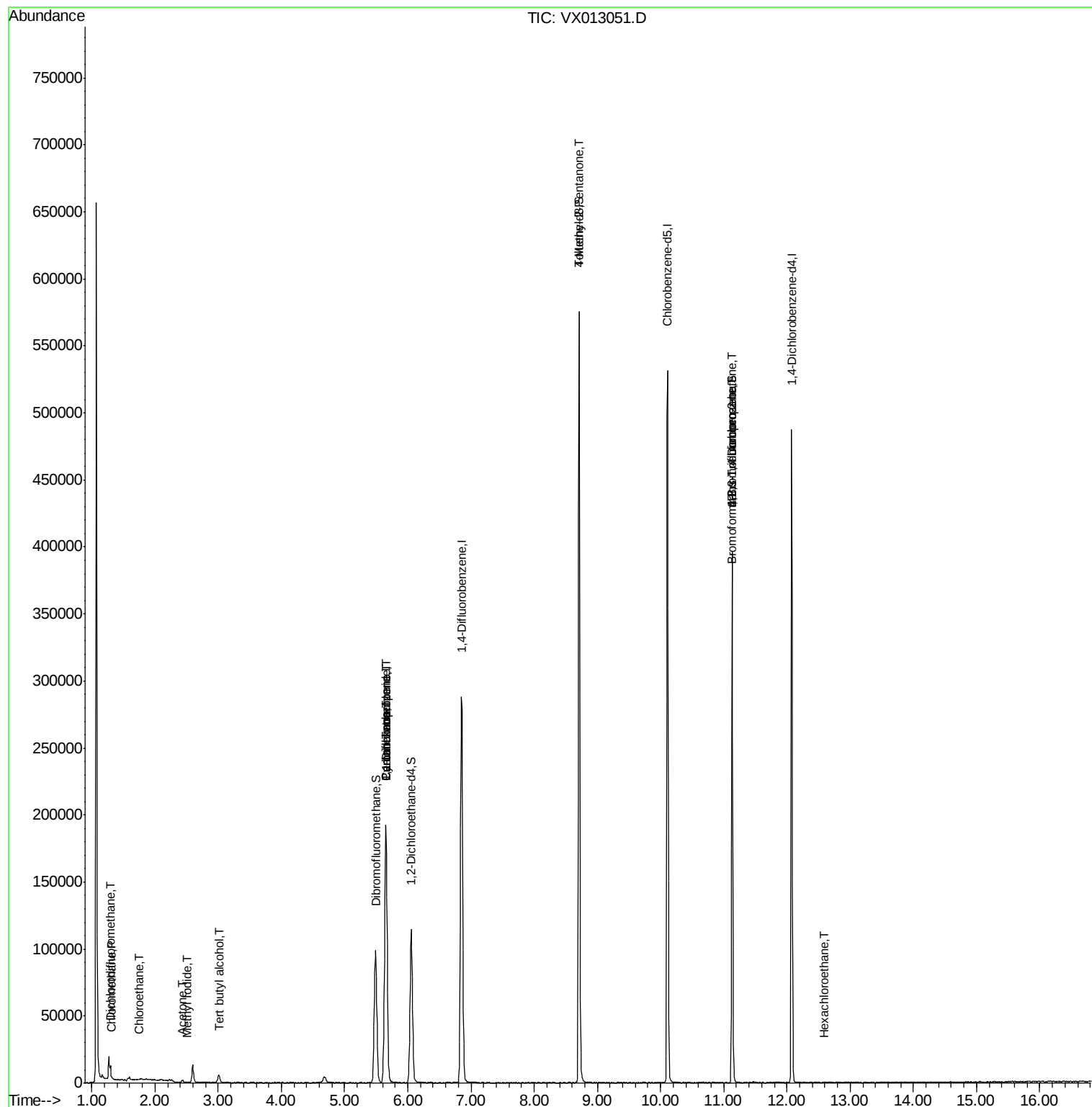
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.30	85	606	0.333	ug/l	83
3) Chloromethane	1.32	50	413	0.209	ug/l #	43
6) Chloroethane	1.75	64	622	0.862	ug/l #	43
10) Methyl Iodide	2.50	142	154	5.150	ug/l #	40
11) Tert butyl alcohol	3.02	59	3959	6.697	ug/l #	72
16) Acetone	2.43	43	2030	1.727	ug/l	97
31) Cyclohexane	5.65	56	3750	1.159	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14076	5.487	ug/l #	51
38) Carbon Tetrachloride	5.65	117	18178	7.281	ug/l #	18
51) 4-Methyl-2-Pentanone	8.71	43	1402	0.488	ug/l #	1
71) Bromoform	11.12	173	102	3.199	ug/l #	29
76) 1,2,3-Trichloropropane	11.14	75	55188	26.333	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.14	75	55188	66.268	ug/l #	10
90) Hexachloroethane	12.59	117	31	2.144	ug/l #	13

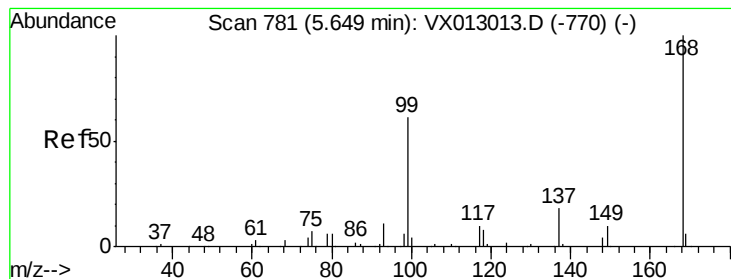
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX013051.D

Acq: 14 Oct 2019 14:56

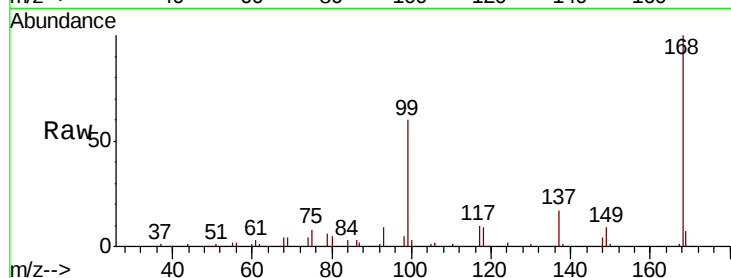
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 178422

Ion Ratio Lower Upper

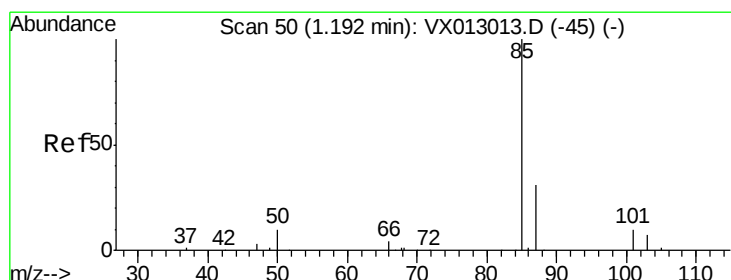
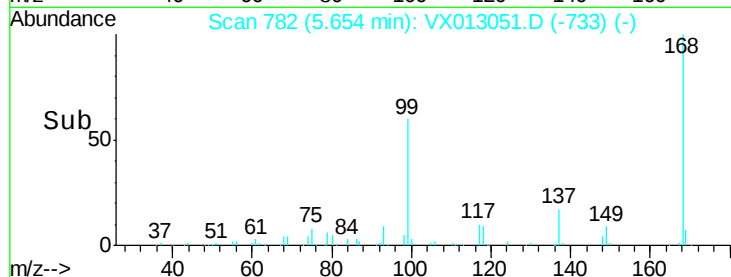
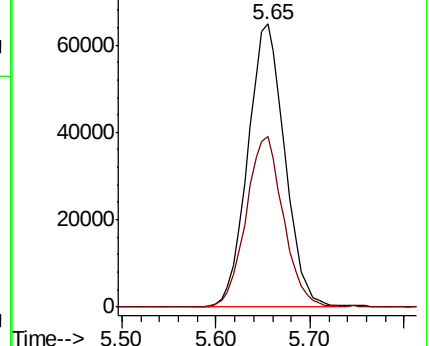
168 100

99 60.1 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.333 ug/l

RT: 1.30 min Scan# 67

Delta R.T. 0.10 min

Lab File: VX013051.D

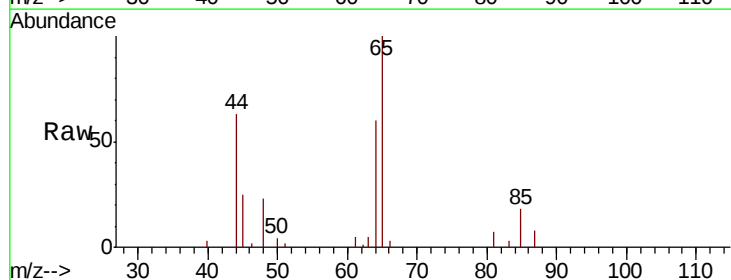
Acq: 14 Oct 2019 14:56

Tgt Ion: 85 Resp: 606

Ion Ratio Lower Upper

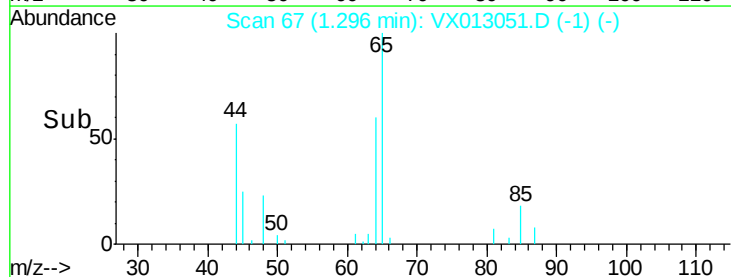
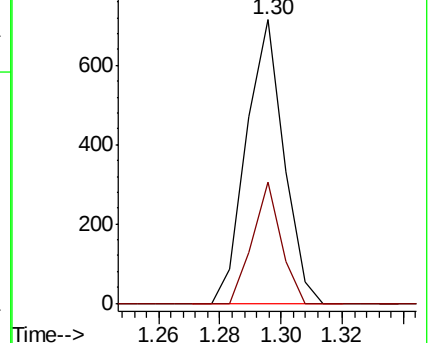
85 100

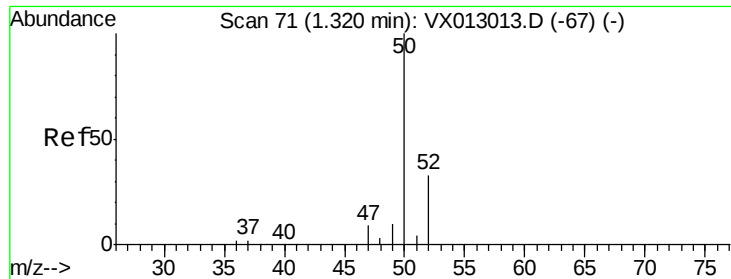
87 42.7 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.209 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013051.D

Acq: 14 Oct 2019 14:56

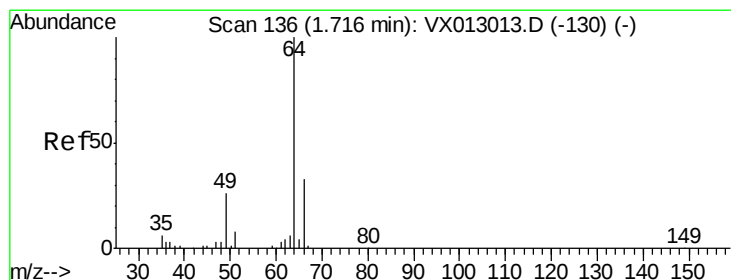
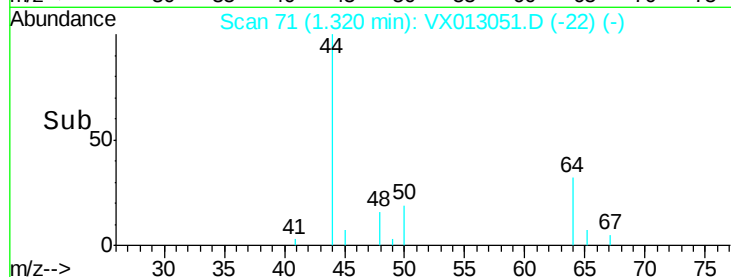
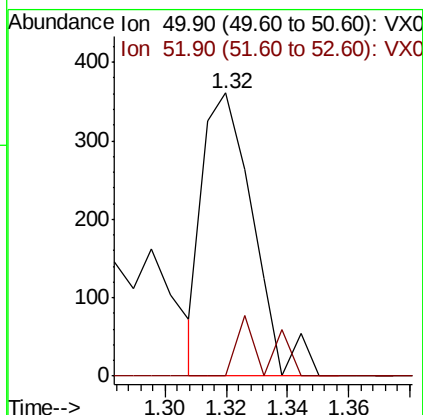
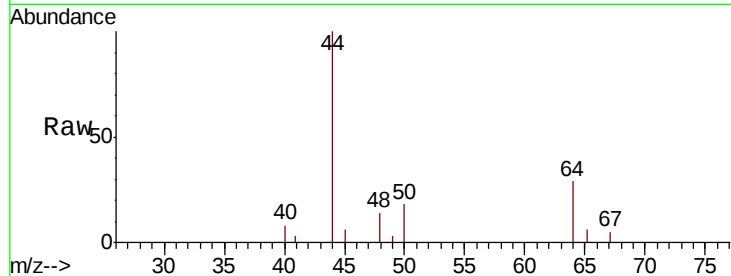
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 50 Resp: 413

Ion Ratio Lower Upper

50 100

52 0.0 25.2 37.8#



#6

Chloroethane

Concen: 0.862 ug/l

RT: 1.75 min Scan# 142

Delta R.T. 0.04 min

Lab File: VX013051.D

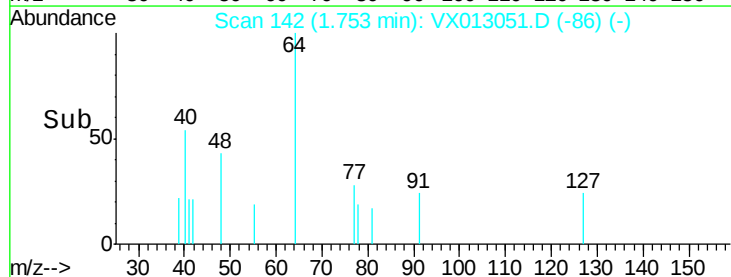
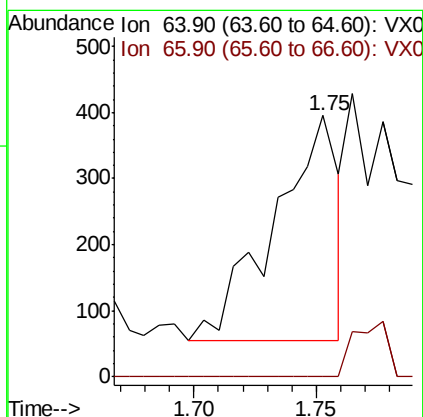
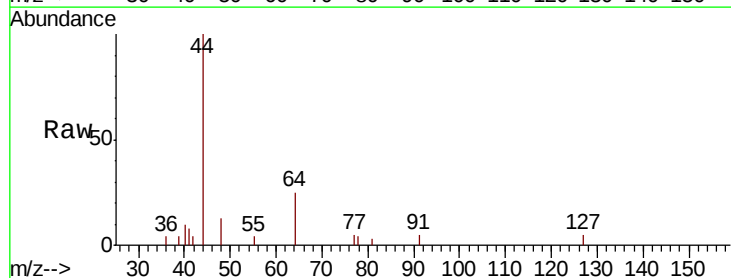
Acq: 14 Oct 2019 14:56

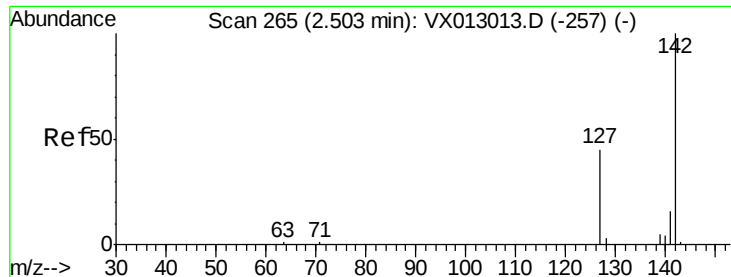
Tgt Ion: 64 Resp: 622

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#

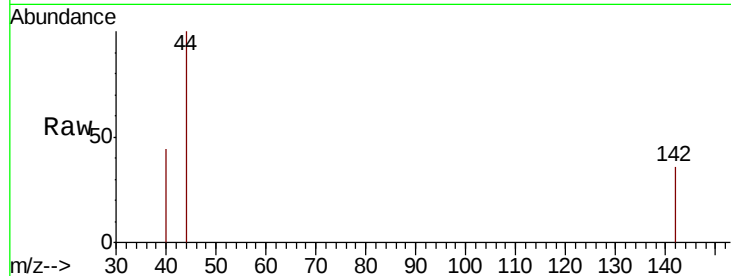




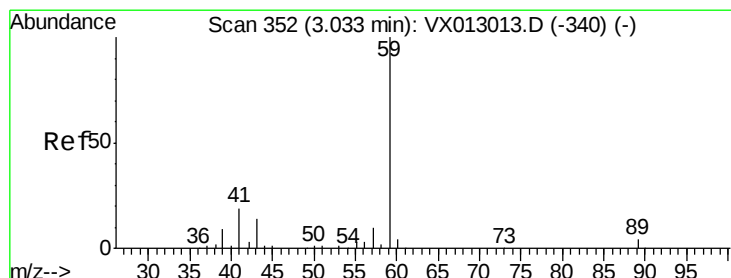
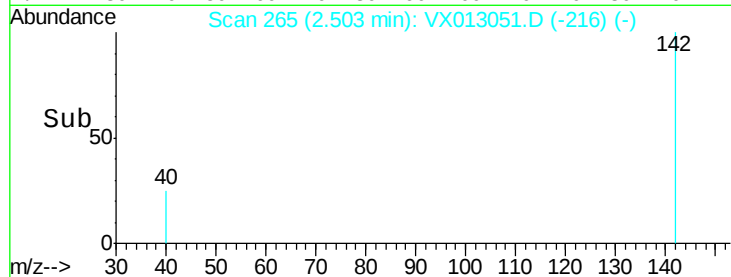
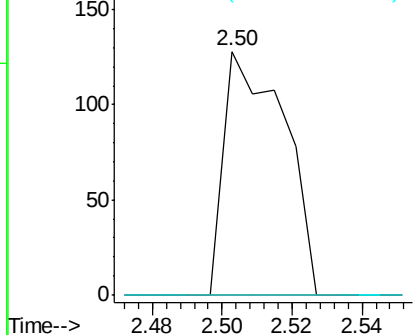
#10
Methyl Iodide
Concen: 5.150 ug/l
RT: 2.50 min Scan# 265
Delta R.T. 0.00 min
Lab File: VX013051.D
Acq: 14 Oct 2019 14:56

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:142 Resp: 154
Ion Ratio Lower Upper
142 100
127 0.0 34.9 52.3#
141 0.0 11.6 17.4#

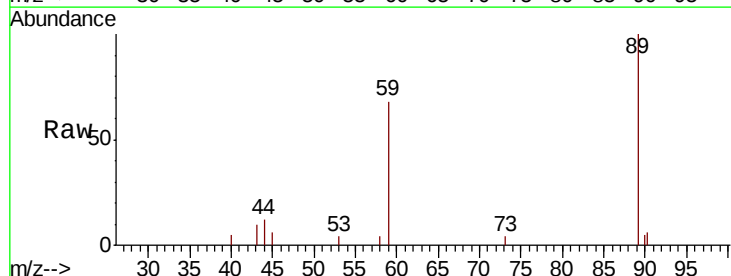


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

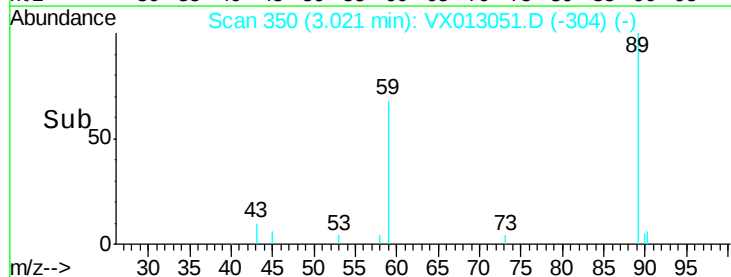
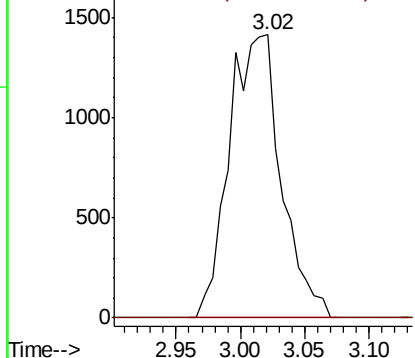


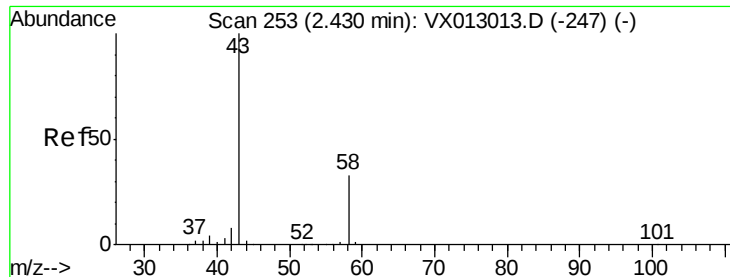
#11
Tert butyl alcohol
Concen: 6.697 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX013051.D
Acq: 14 Oct 2019 14:56

Tgt Ion: 59 Resp: 3959
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 1.727 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013051.D

Acq: 14 Oct 2019 14:56

Instrument :

MSVOA_X

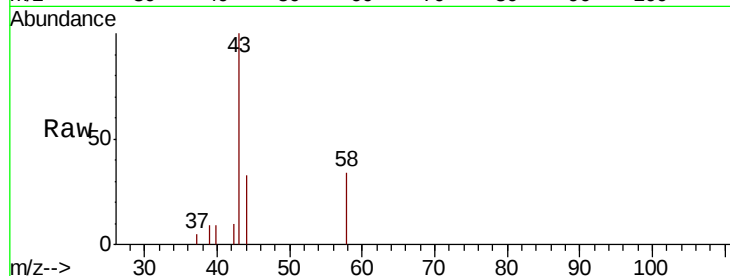
ClientSampleId :

Tot Ion: 43 Resp: 2030

Ion Ratio Lower Upper

43 100

58 33.6 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

1200

1000

800

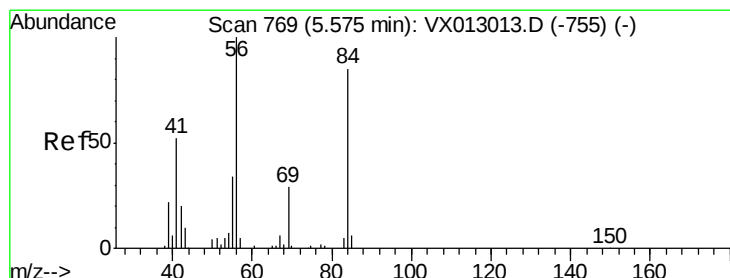
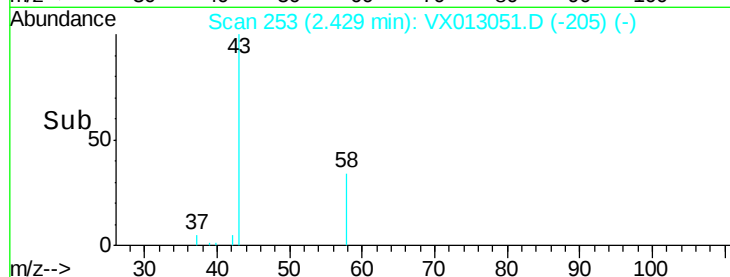
600

400

200

0

Time-->



#31

Cyclohexane

Concen: 1.159 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.09 min

Lab File: VX013051.D

Acq: 14 Oct 2019 14:56

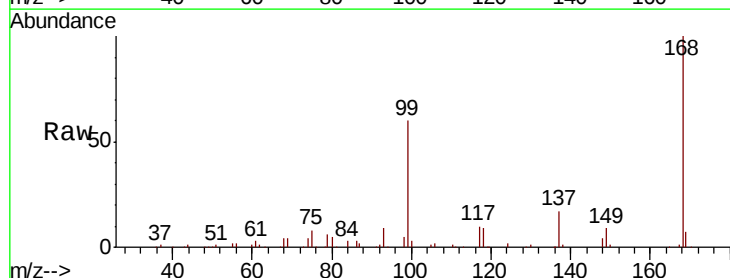
Tgt Ion: 56 Resp: 3750

Ion Ratio Lower Upper

56 100

69 196.8 25.2 37.8#

84 125.0 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

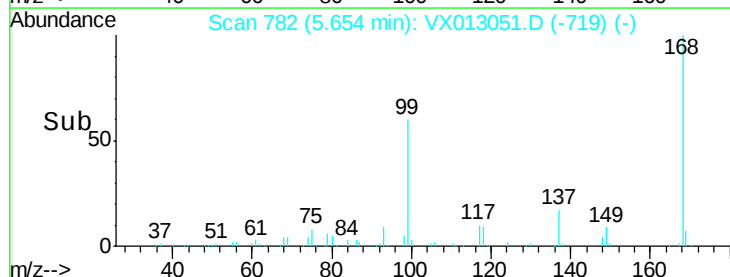
3000

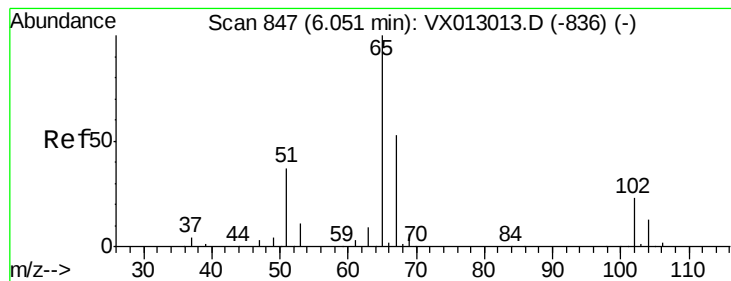
2000

1000

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 48.927 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.01 min

Lab File: VX013051.D

Acq: 14 Oct 2019 14:56

Instrument :

MSVOA_X

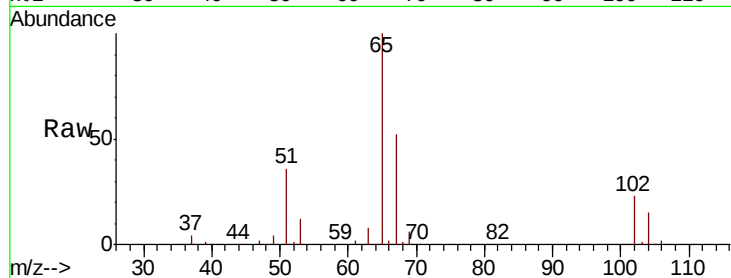
ClientSampleId :

Tot Ion: 65 Resp: 109109

Ion Ratio Lower Upper

65 100

67 53.0 0.0 104.4

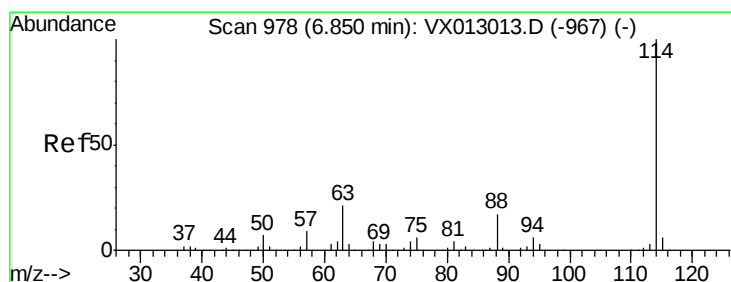
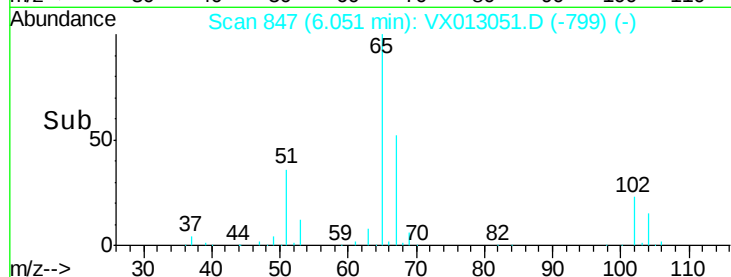


Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013051.D

Acq: 14 Oct 2019 14:56

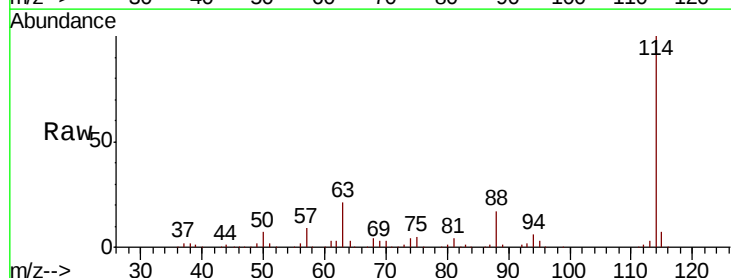
Tgt Ion: 114 Resp: 291757

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

88 16.6 0.0 33.8



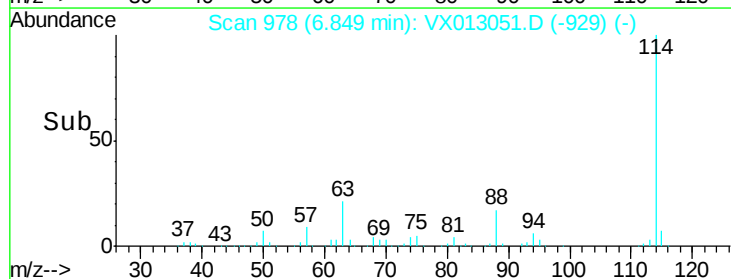
Abundance Ion 113.90 (113.60 to 114.60): V

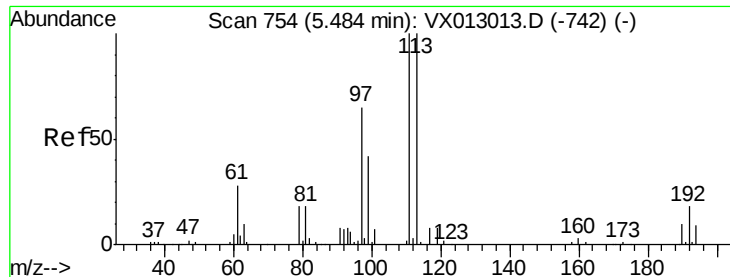
Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.85

Time-->





#35

Dibromofluoromethane

Concen: 51.301 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX013051.D

Acq: 14 Oct 2019 14:56

Instrument :

MSVOA_X

ClientSampleId :

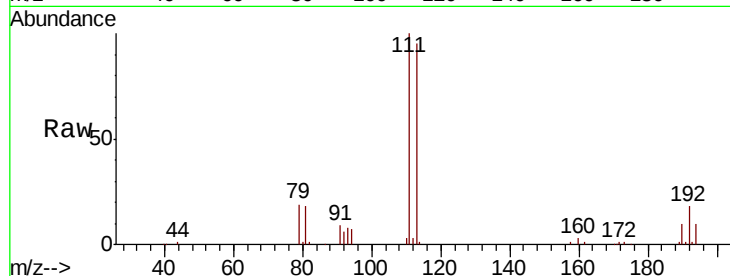
Tot Ion:113 Resp: 85905

Ion Ratio Lower Upper

113 100

111 103.0 83.2 124.8

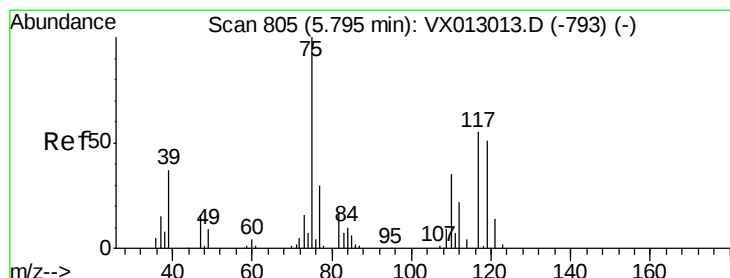
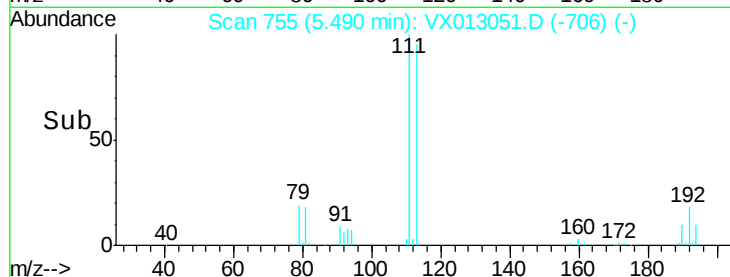
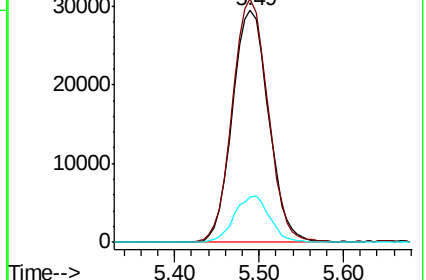
192 19.5 15.4 23.2



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: 5.487 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013051.D

Acq: 14 Oct 2019 14:56

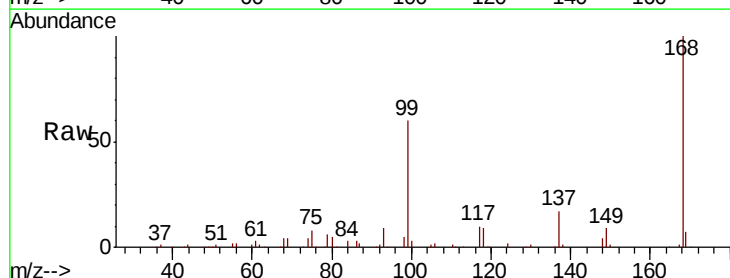
Tgt Ion: 75 Resp: 14076

Ion Ratio Lower Upper

75 100

110 10.2 17.6 52.9#

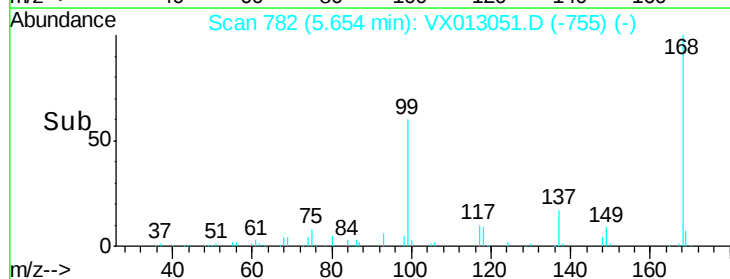
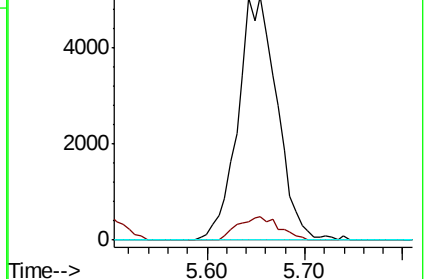
77 0.0 24.4 36.6#

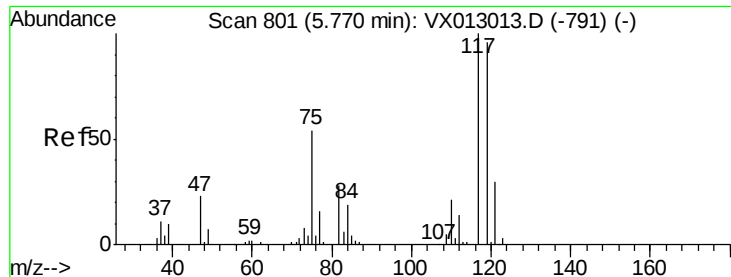


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

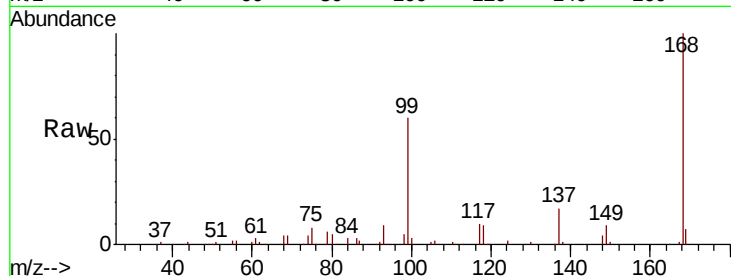




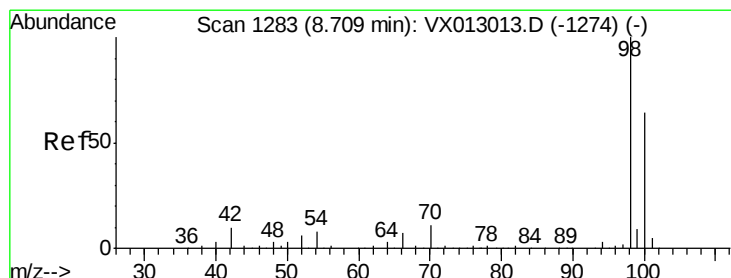
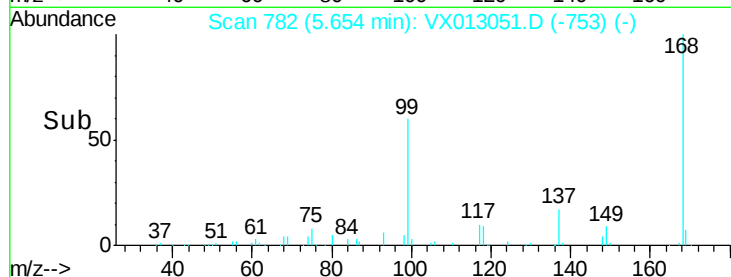
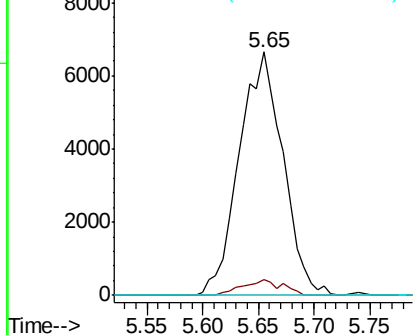
#38
Carbon Tetrachloride
Concen: 7.281 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.12 min
Lab File: VX013051.D
Acq: 14 Oct 2019 14:56

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 18178
Ion Ratio Lower Upper
117 100
119 6.3 74.5 111.7#
121 0.0 24.2 36.4#

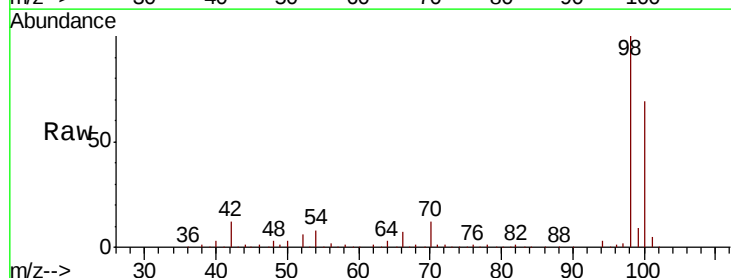


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

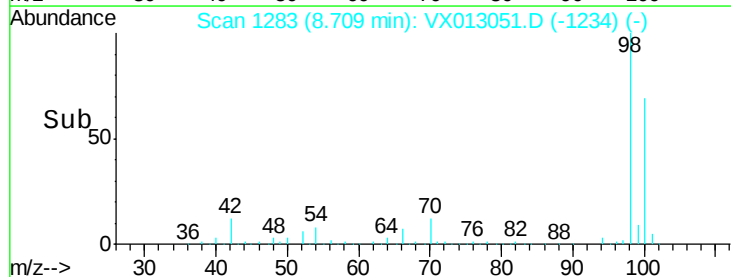
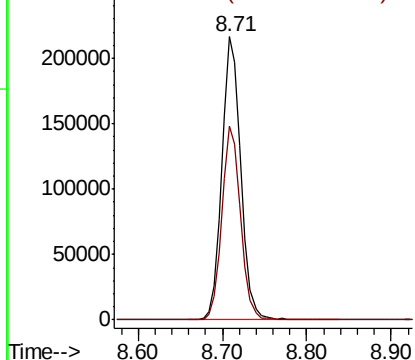


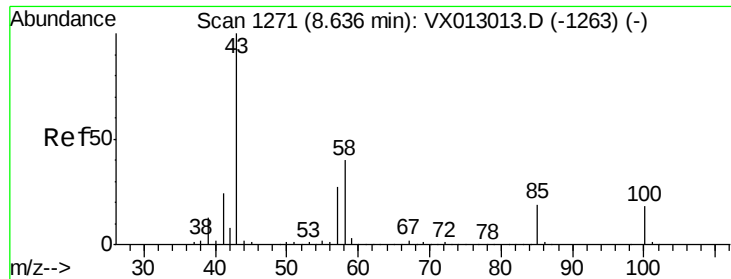
#50
Toluene-d8
Concen: 51.455 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013051.D
Acq: 14 Oct 2019 14:56

Tgt Ion: 98 Resp: 336057
Ion Ratio Lower Upper
98 100
100 67.6 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.488 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.07 min

Lab File: VX013051.D

Acq: 14 Oct 2019 14:56

Instrument :

MSVOA_X

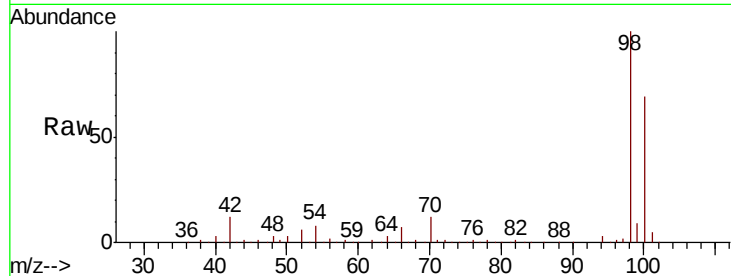
ClientSampleId :

Tot Ion: 43 Resp: 1402

Ion Ratio Lower Upper

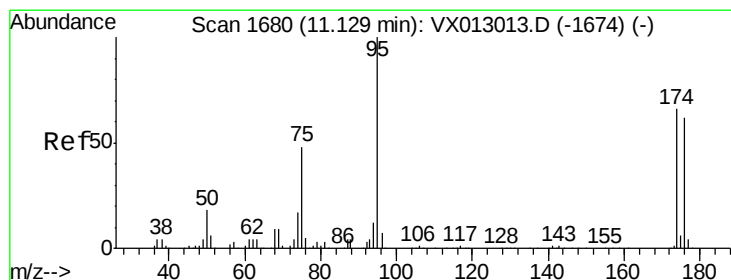
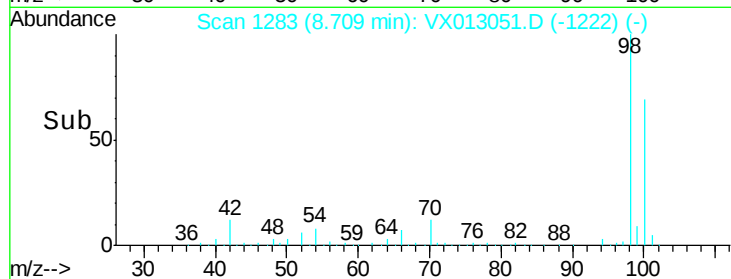
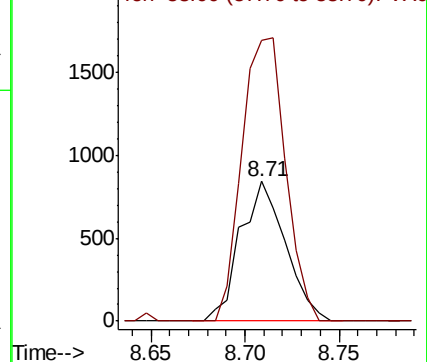
43 100

58 196.4 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 43.093 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.00 min

Lab File: VX013051.D

Acq: 14 Oct 2019 14:56

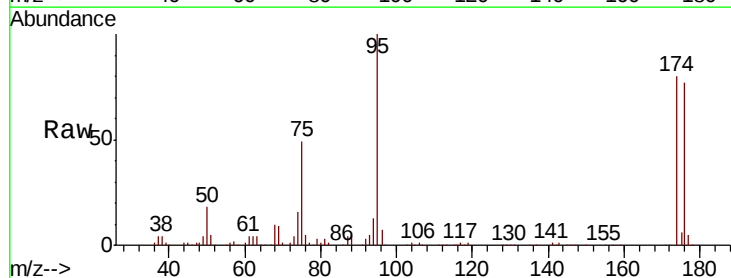
Tgt Ion: 95 Resp: 109357

Ion Ratio Lower Upper

95 100

174 75.4 0.0 143.4

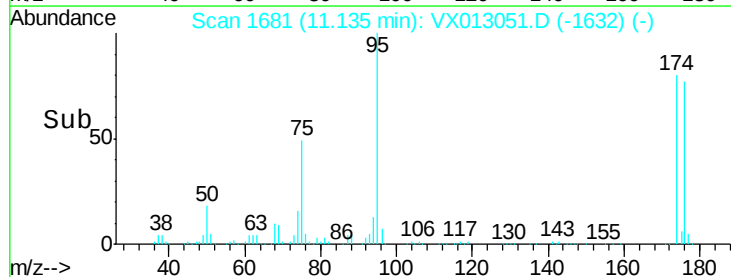
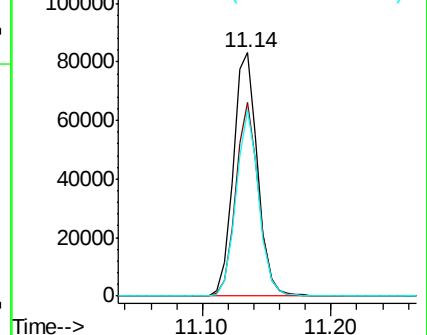
176 71.8 0.0 136.0

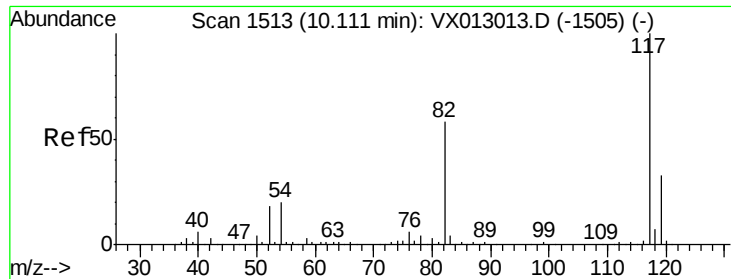


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

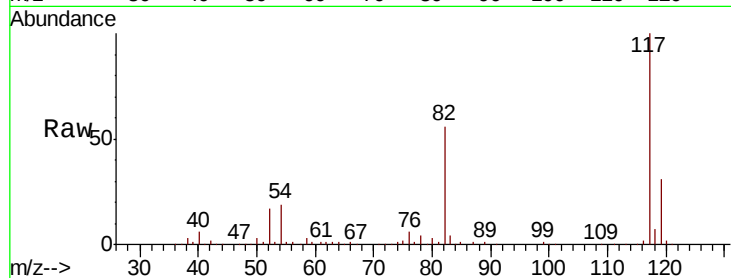




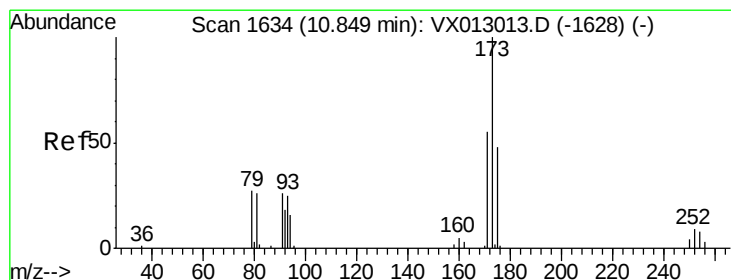
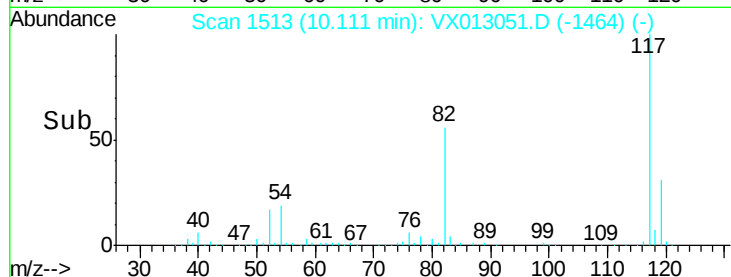
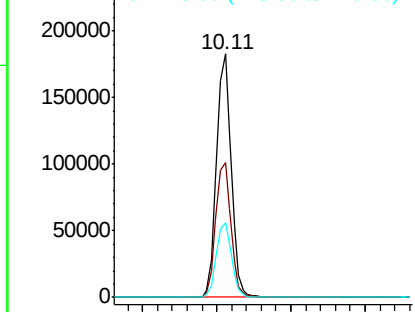
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013051.D
Acq: 14 Oct 2019 14:56

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 247203
Ion Ratio Lower Upper
117 100
82 55.5 44.1 66.1
119 30.8 25.8 38.8

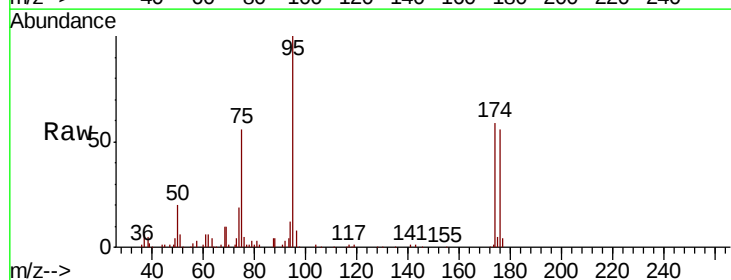


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

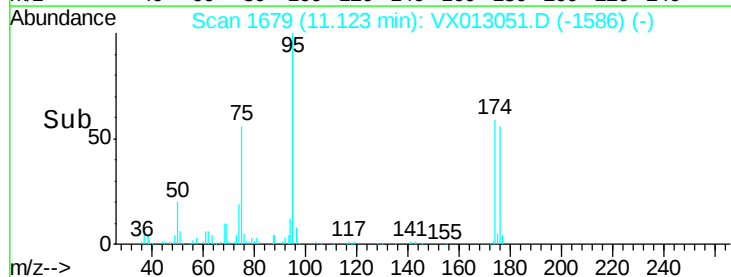
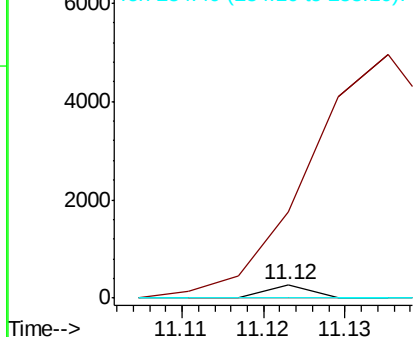


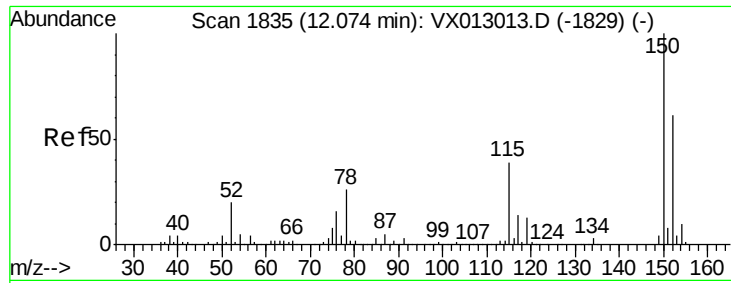
#71
Bromoform
Concen: 3.199 ug/l
RT: 11.12 min Scan# 1679
Delta R.T. 0.27 min
Lab File: VX013051.D
Acq: 14 Oct 2019 14:56

Tgt Ion:173 Resp: 102
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.3#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): 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: VX013051.D

Acq: 14 Oct 2019 14:56

Instrument :

MSVOA_X

ClientSampleId :

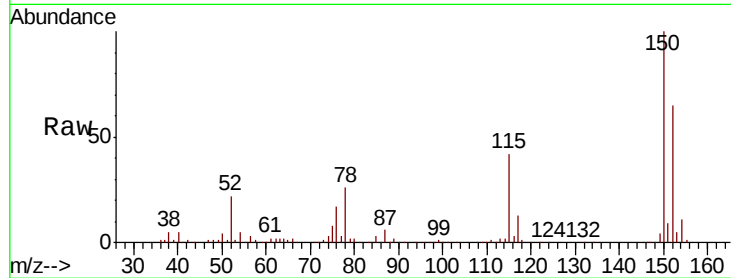
Tot Ion:152 Resp: 94489

Ion Ratio Lower Upper

152 100

115 63.0 44.5 133.5

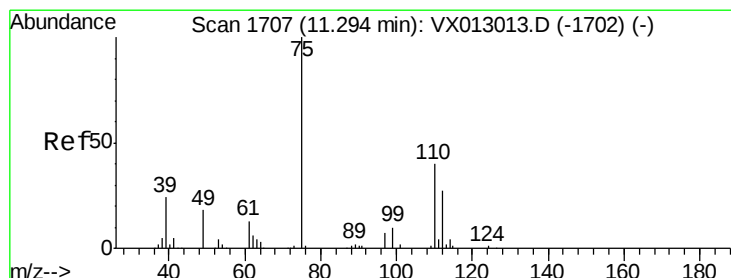
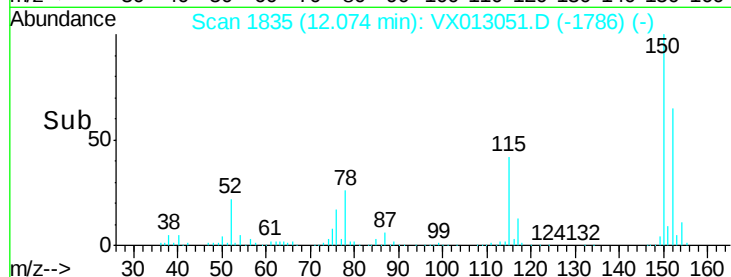
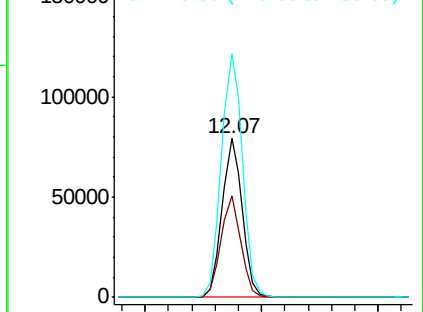
150 160.3 0.0 353.4



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: 26.333 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.15 min

Lab File: VX013051.D

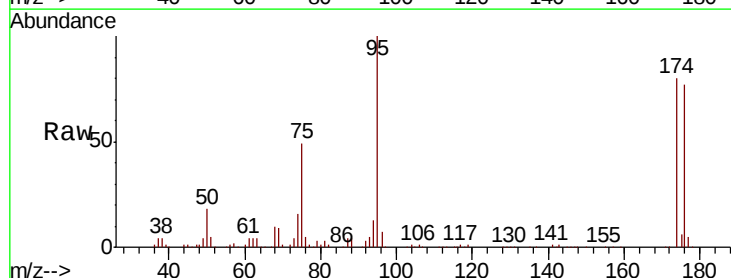
Acq: 14 Oct 2019 14:56

Tgt Ion: 75 Resp: 55188

Ion Ratio Lower Upper

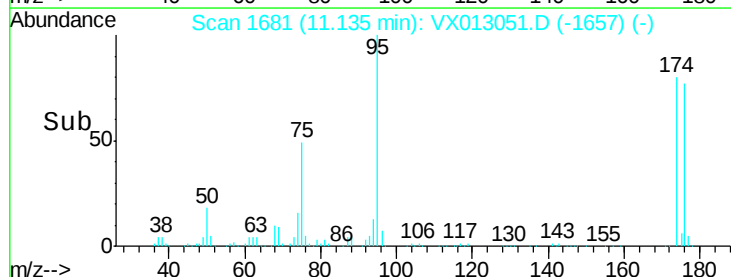
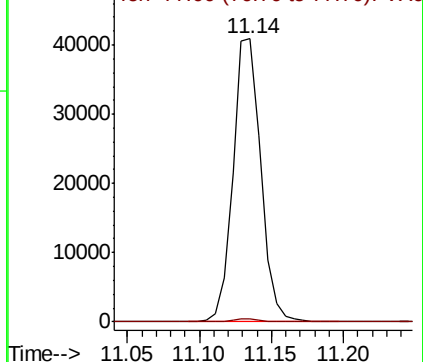
75 100

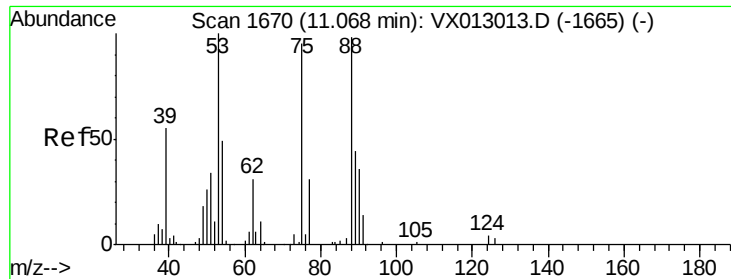
77 1.2 22.9 68.8#



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: 66.268 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013051.D

Acq: 14 Oct 2019 14:56

Instrument :

MSVOA_X

ClientSampleId :

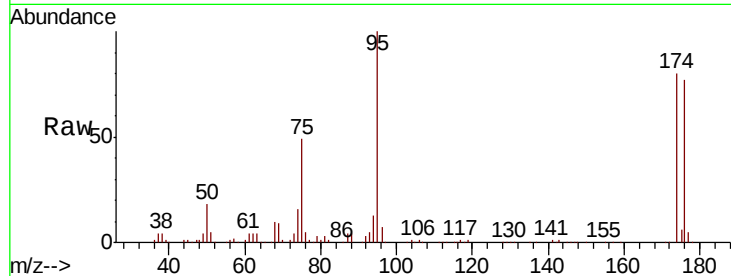
Tot Ion: 75 Resp: 55188

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

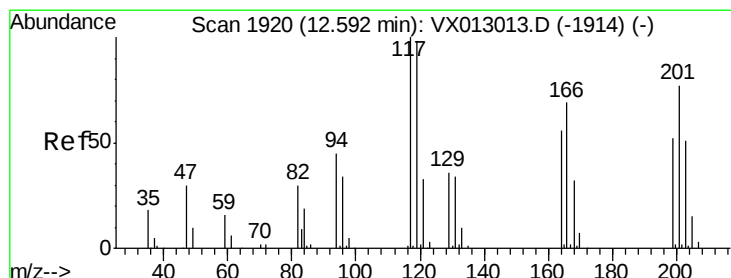
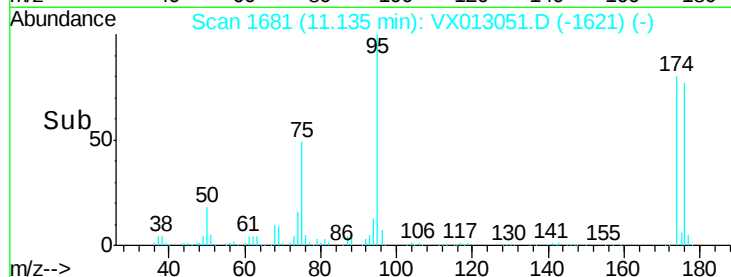
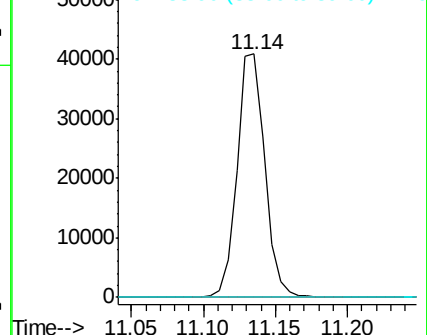
89 0.0 37.4 56.2#



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: 2.144 ug/l

RT: 12.59 min Scan# 1920

Delta R.T. 0.00 min

Lab File: VX013051.D

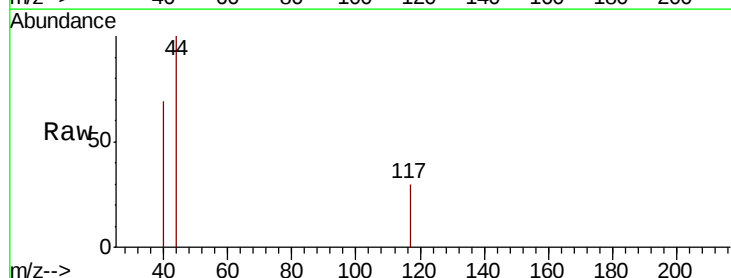
Acq: 14 Oct 2019 14:56

Tgt Ion: 117 Resp: 31

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

