

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX103019\
 Data File : VX013284.D
 Acq On : 30 Oct 2019 14:26
 Operator : JC/SP
 Sample : K5602-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 31 01:40:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102419W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 24 03:56:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	72385	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	105400	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	103957	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	67323	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	82592	54.55	ug/l	0.00
Spiked Amount			Recovery	=	109.10%	
35) Dibromofluoromethane	5.48	113	229	0.19	ug/l	0.00
Spiked Amount			Recovery	=	0.38%	
50) Toluene-d8	8.71	98	215104	49.38	ug/l	0.00
Spiked Amount			Recovery	=	98.76%	
62) 4-Bromofluorobenzene	11.14	95	80210	46.52	ug/l	0.00
Spiked Amount			Recovery	=	93.04%	

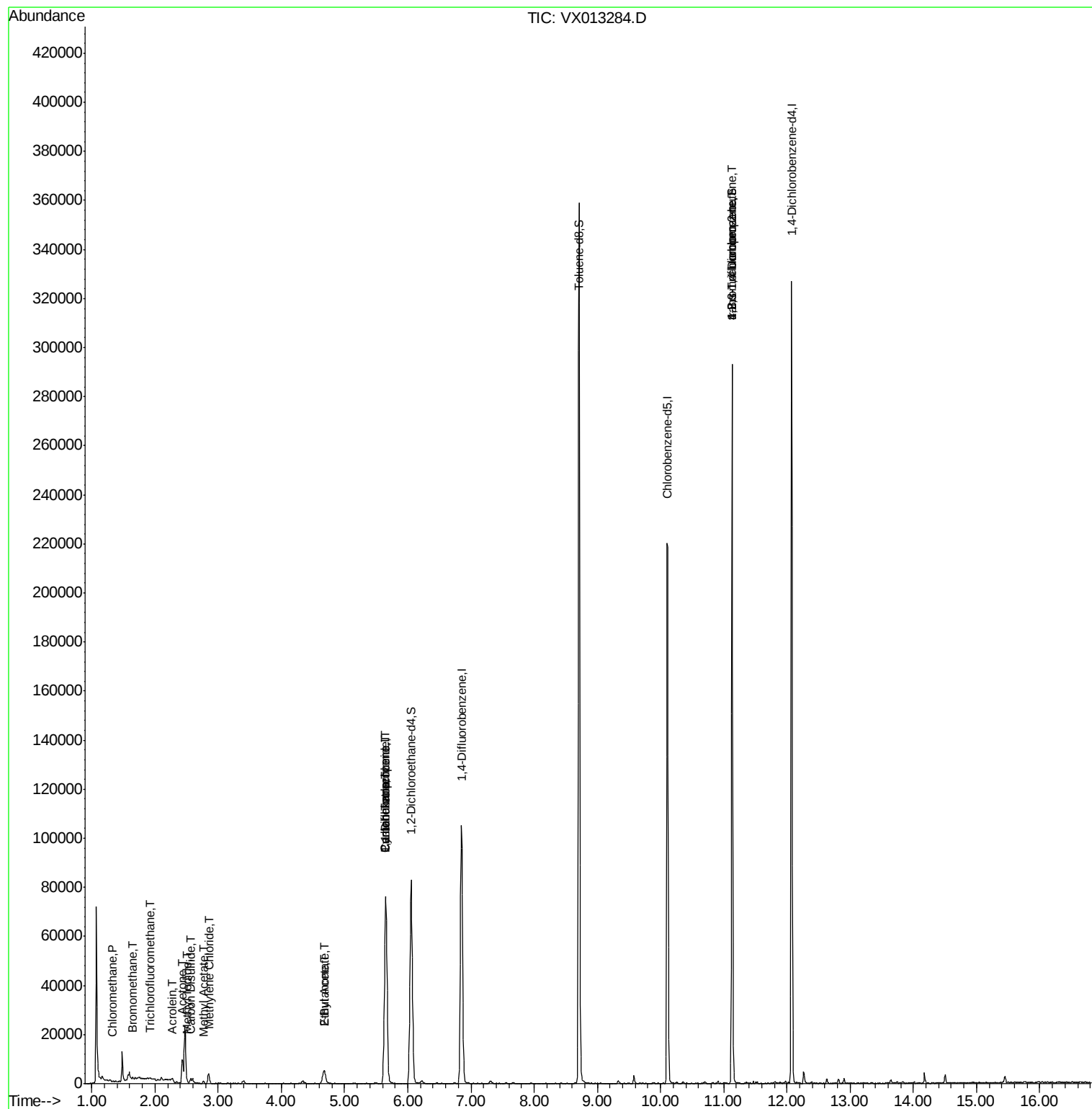
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	49	1.017	ug/l #	40
5) Bromomethane	1.64	94	343	0.492	ug/l #	74
6) Chloroethane	1.58	64	51	Below Cal	#	43
7) Trichlorofluoromethane	1.92	101	20	0.308	ug/l #	17
10) Methyl Iodide	2.51	142	493	3.823	ug/l #	69
11) Tert butyl alcohol	3.04	59	185	Below Cal	#	72
13) Acrolein	2.28	56	93	0.524	ug/l #	19
16) Acetone	2.43	43	10447	14.647	ug/l	99
17) Carbon Disulfide	2.56	76	2438	0.735	ug/l #	91
18) Methyl Acetate	2.76	43	750	1.441	ug/l #	88
20) Methylene Chloride	2.85	84	2001	1.780	ug/l #	85
25) 2-Butanone	4.68	43	1982	2.072	ug/l #	45
31) Cyclohexane	5.64	56	1465	0.748	ug/l #	35
36) 1,1-Dichloropropene	5.65	75	5509	3.050	ug/l #	47
37) Ethyl Acetate	4.68	43	1982	1.128	ug/l #	70
38) Carbon Tetrachloride	5.65	117	7578	3.890	ug/l #	13
64) Tetrachloroethene	9.32	164	37	Below Cal	#	1
76) 1,2,3-Trichloropropane	11.14	75	40465	24.938	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	40465	68.529	ug/l #	10

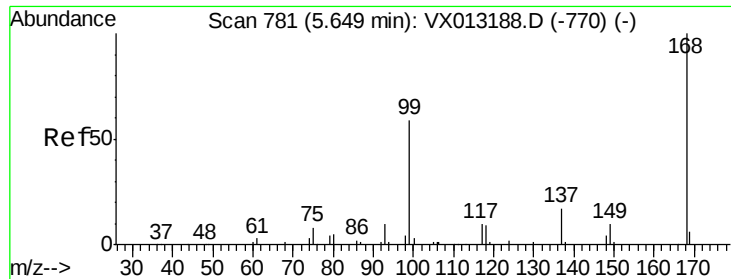
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013284.D

Acq: 30 Oct 2019 14:26

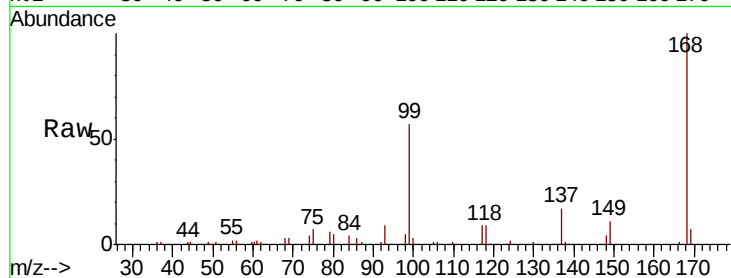
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 72385

Ion Ratio Lower Upper

168 100

99 56.7 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

25000

20000

15000

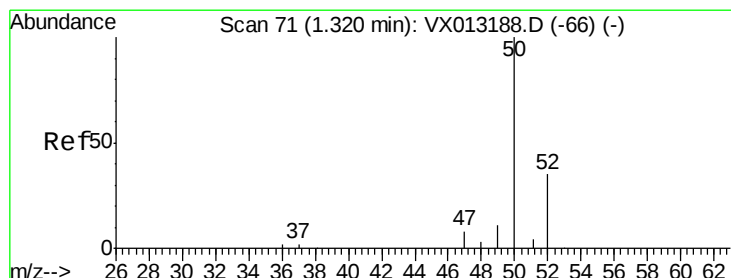
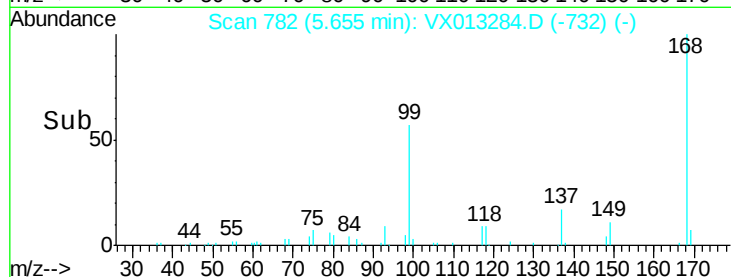
10000

5000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 1.017 ug/l

RT: 1.33 min Scan# 72

Delta R.T. 0.01 min

Lab File: VX013284.D

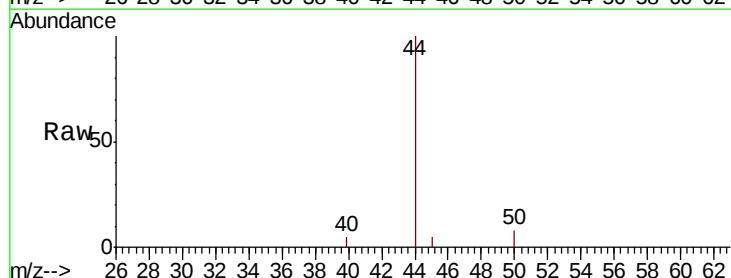
Acq: 30 Oct 2019 14:26

Tgt Ion: 50 Resp: 49

Ion Ratio Lower Upper

50 100

52 0.0 27.8 41.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

80

60

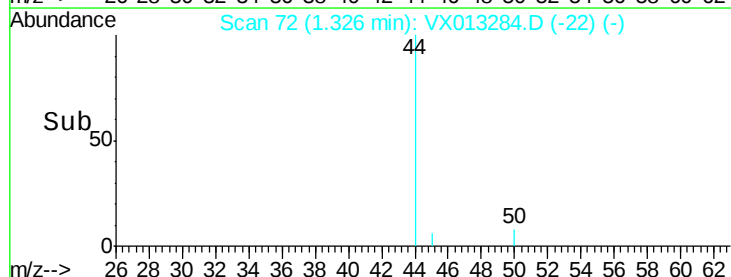
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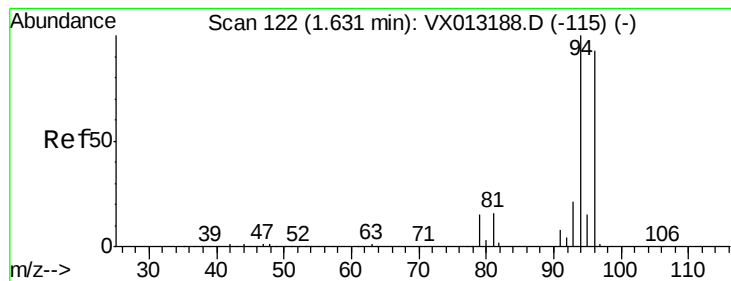
20

0

Time-->

1.30 1.32 1.34





#5

Bromomethane

Concen: 0.492 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013284.D

Acq: 30 Oct 2019 14:26

Instrument :

MSVOA_X

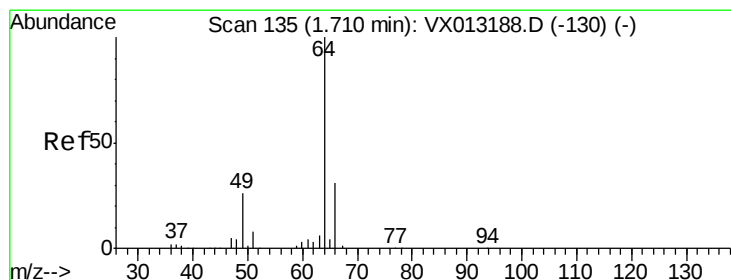
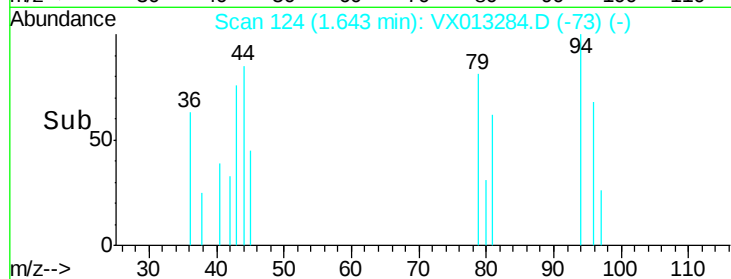
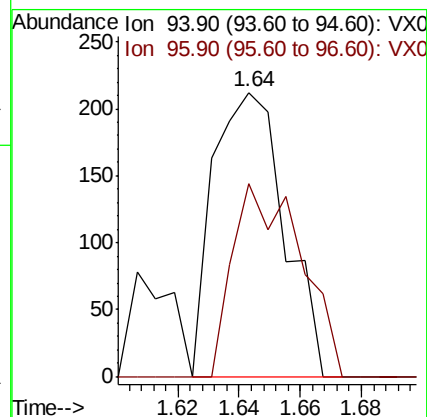
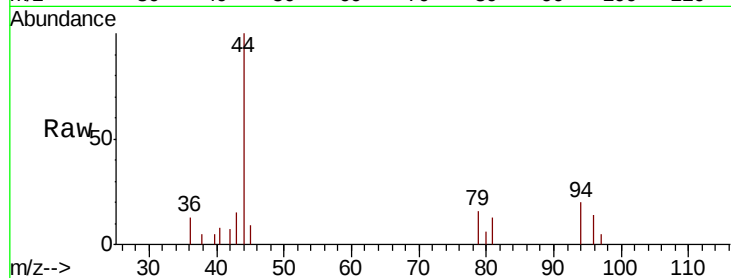
ClientSampled :

Tot Ion: 94 Resp: 343

Ion Ratio Lower Upper

94 100

96 67.9 74.2 111.2#



#6

Chloroethane

Concen: Below Cal

RT: 1.58 min Scan# 114

Delta R.T. -0.13 min

Lab File: VX013284.D

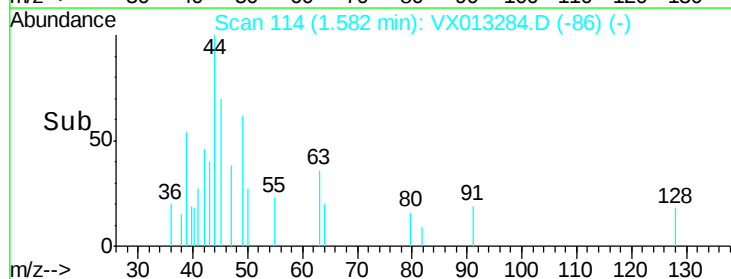
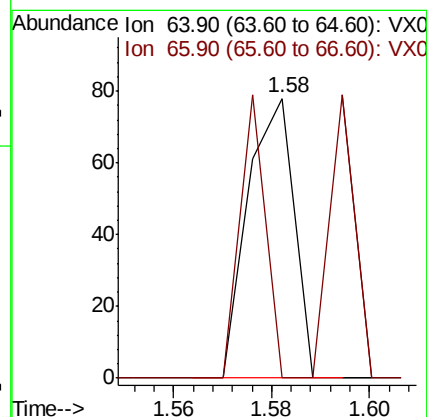
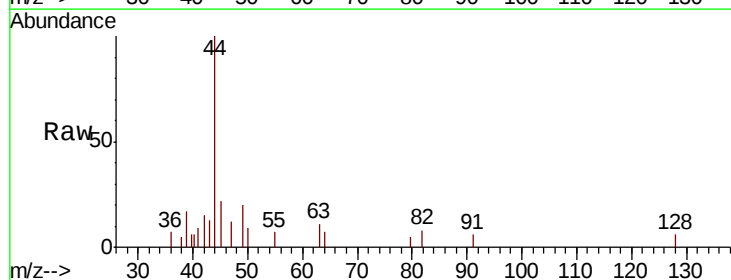
Acq: 30 Oct 2019 14:26

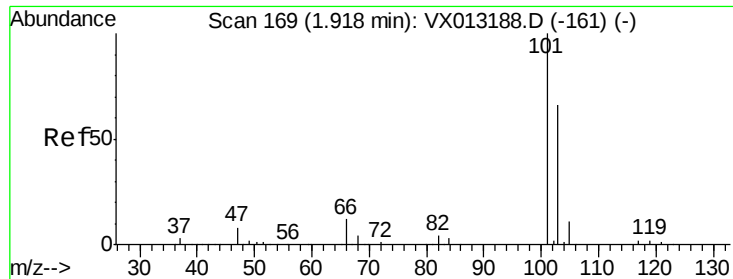
Tgt Ion: 64 Resp: 51

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.6#



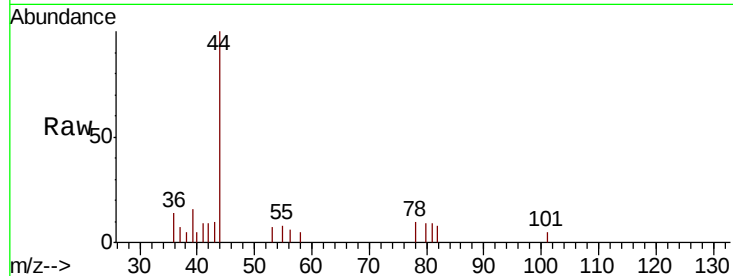


#7

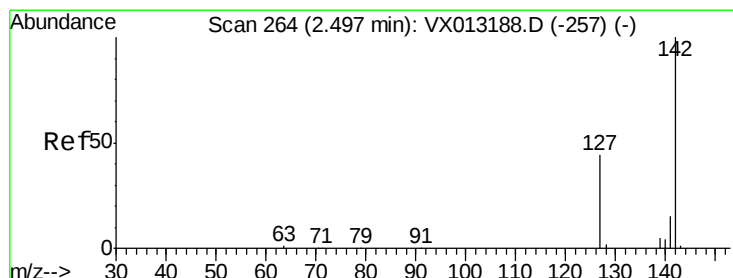
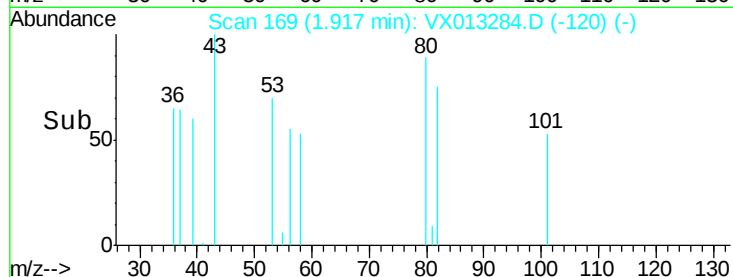
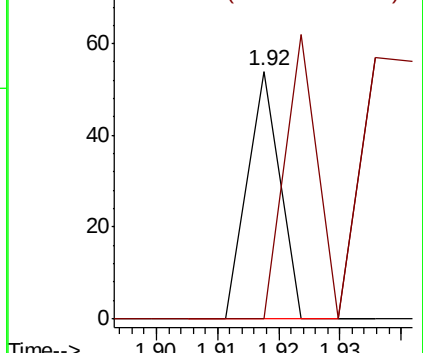
Trichlorofluoromethane
Concen: 0.308 ug/l
RT: 1.92 min Scan# 169
Delta R.T. 0.00 min
Lab File: VX013284.D
Acq: 30 Oct 2019 14:26

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:101 Resp: 20
Ion Ratio Lower Upper
101 100
103 0.0 53.0 79.6#



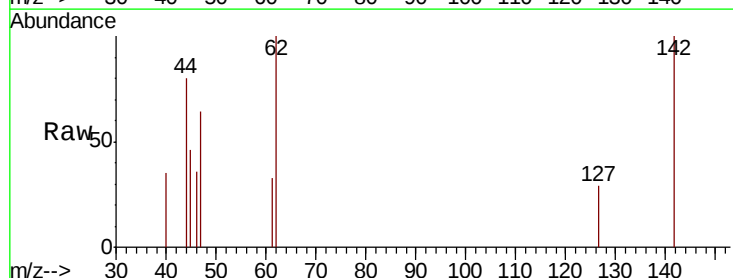
Abundance Ion 100.90 (100.60 to 101.60): V
Ion 102.80 (102.50 to 103.50): V



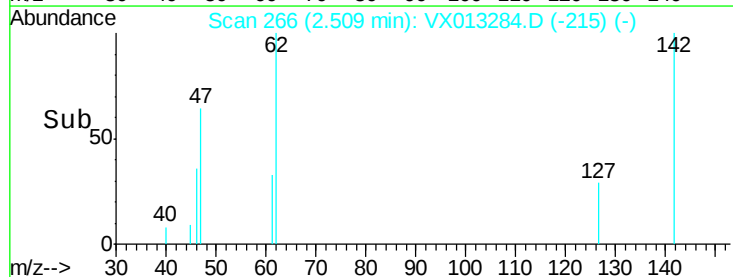
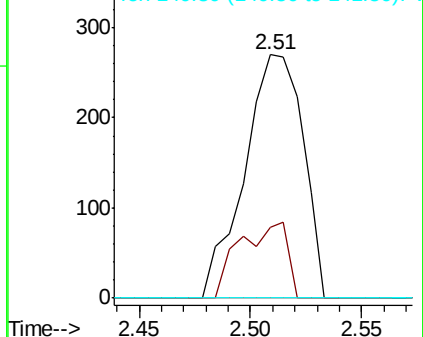
#10

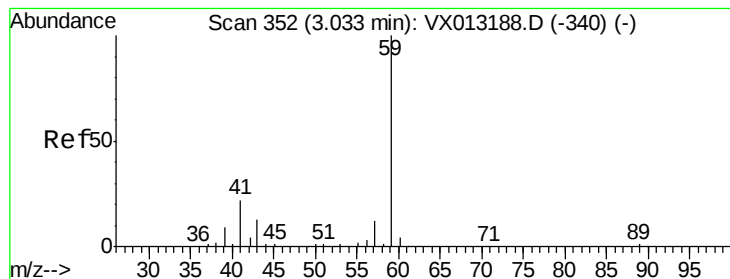
Methyl Iodide
Concen: 3.823 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX013284.D
Acq: 30 Oct 2019 14:26

Tgt Ion:142 Resp: 493
Ion Ratio Lower Upper
142 100
127 25.6 35.6 53.4#
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



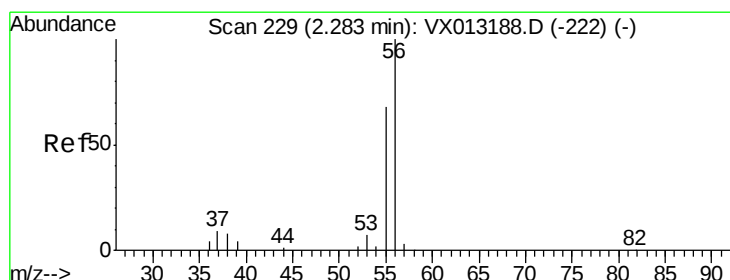
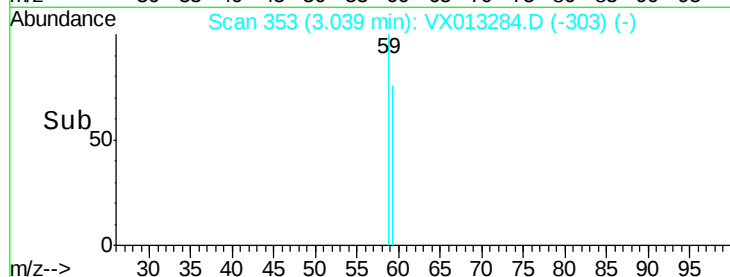
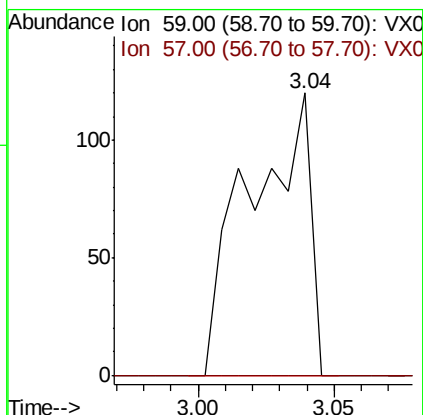
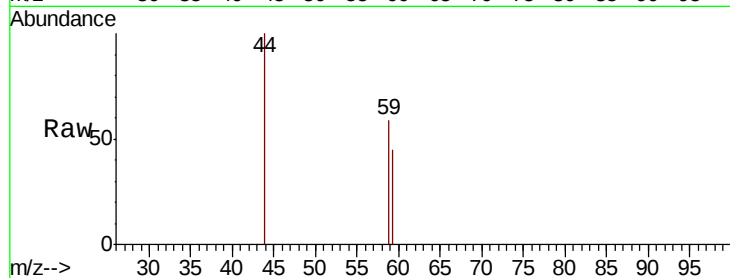


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 3.04 min Scan# 353
 Delta R.T. 0.01 min
 Lab File: VX013284.D
 Acq: 30 Oct 2019 14:26

Instrument :
 MSVOA_X
 ClientSampled :

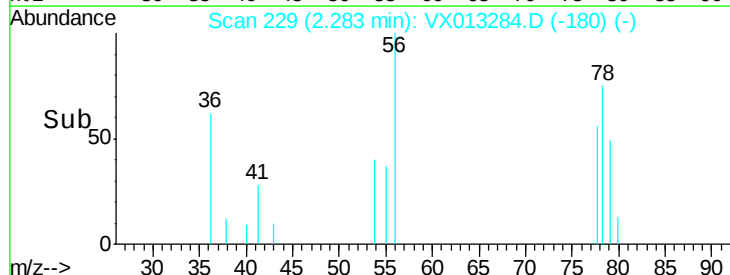
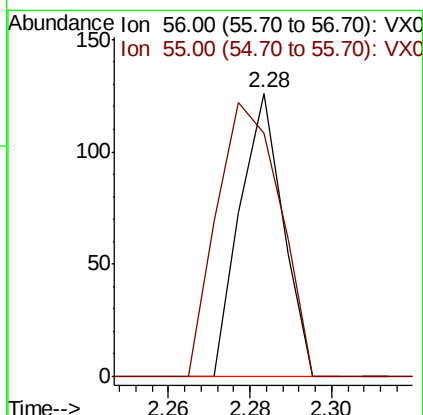
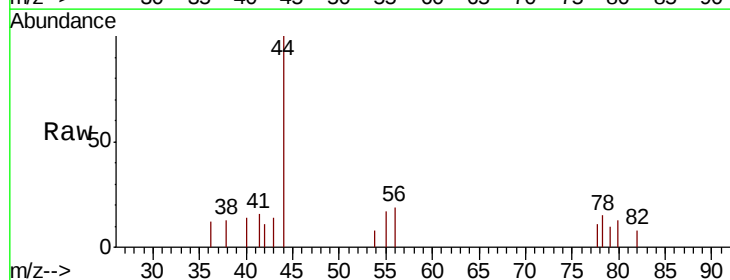
Tot Ion: 59 Resp: 185
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

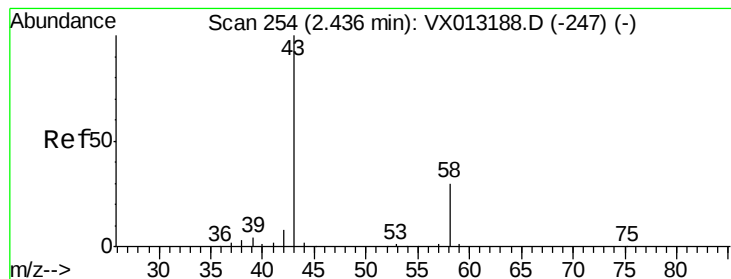


#13

Acrolein
 Concen: 0.524 ug/l
 RT: 2.28 min Scan# 229
 Delta R.T. -0.00 min
 Lab File: VX013284.D
 Acq: 30 Oct 2019 14:26

Tgt Ion: 56 Resp: 93
 Ion Ratio Lower Upper
 56 100
 55 141.9 58.9 88.3#





#16

Acetone

Concen: 14.647 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX013284.D

Acq: 30 Oct 2019 14:26

Instrument :

MSVOA_X

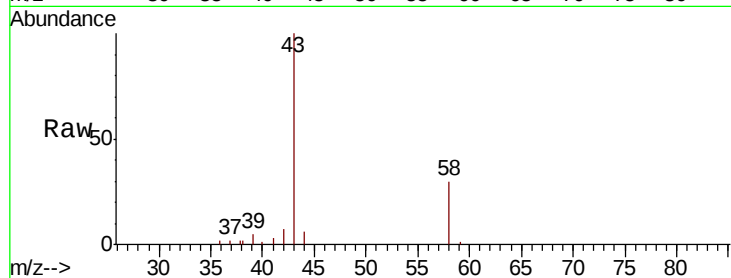
ClientSampled :

Tot Ion: 43 Resp: 10447

Ion Ratio Lower Upper

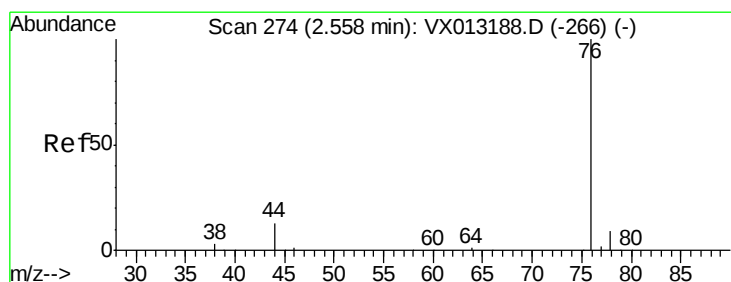
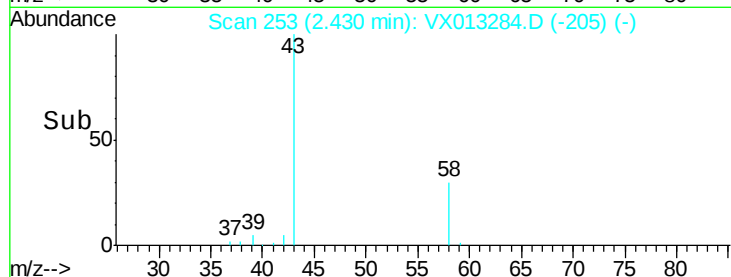
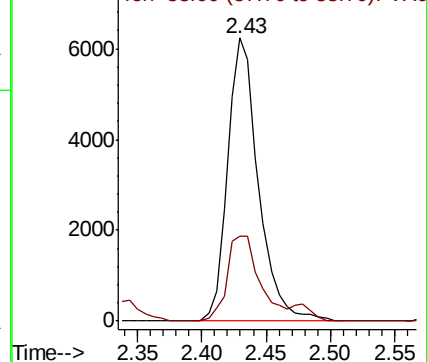
43 100

58 30.1 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.735 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX013284.D

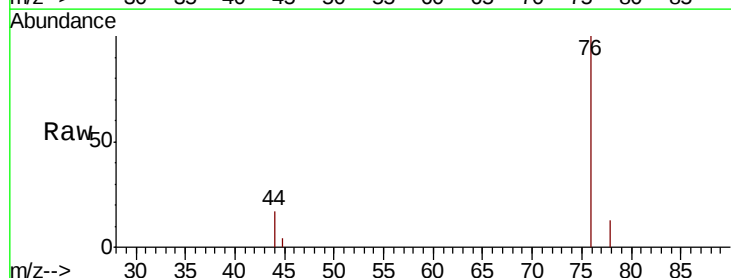
Acq: 30 Oct 2019 14:26

Tgt Ion: 76 Resp: 2438

Ion Ratio Lower Upper

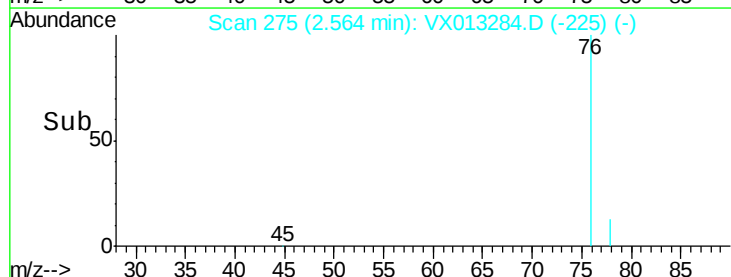
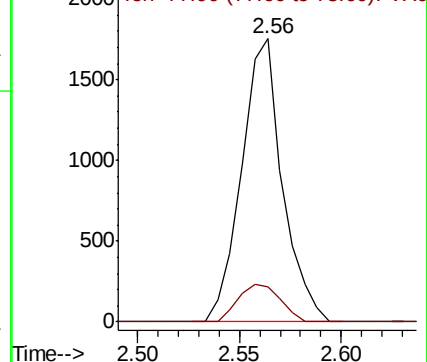
76 100

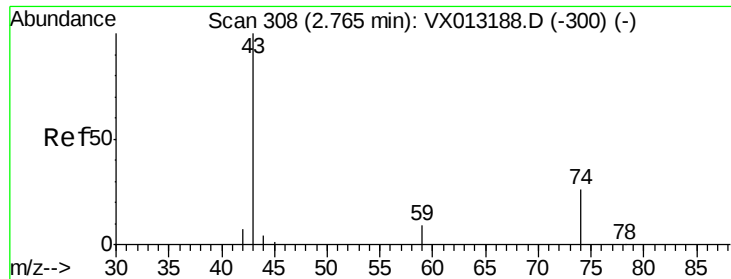
78 12.5 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

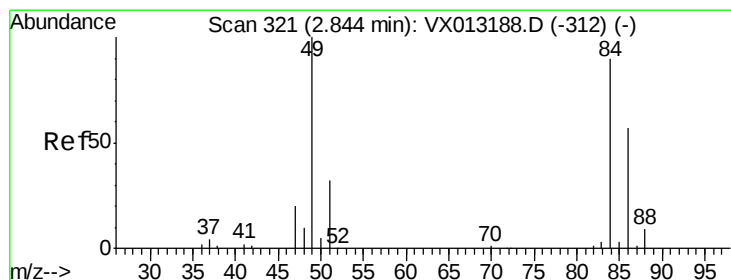
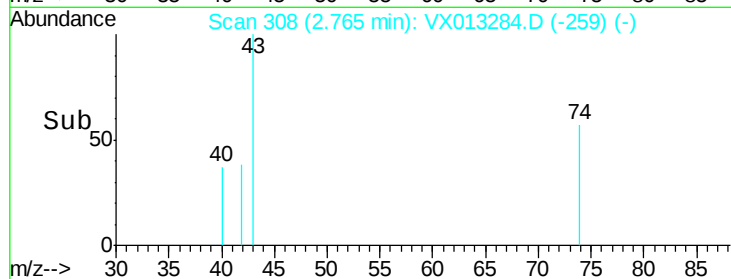
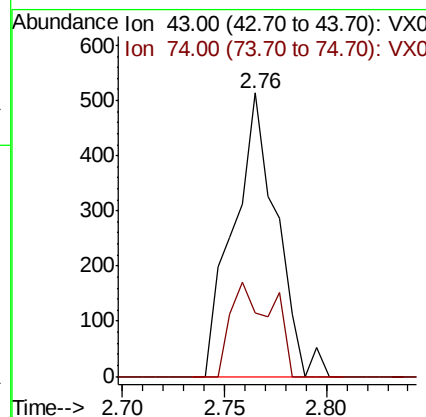
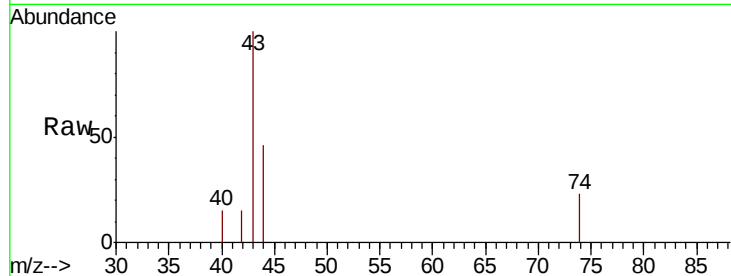




#18
Methyl Acetate
Concen: 1.441 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.00 min
Lab File: VX013284.D
Acq: 30 Oct 2019 14:26

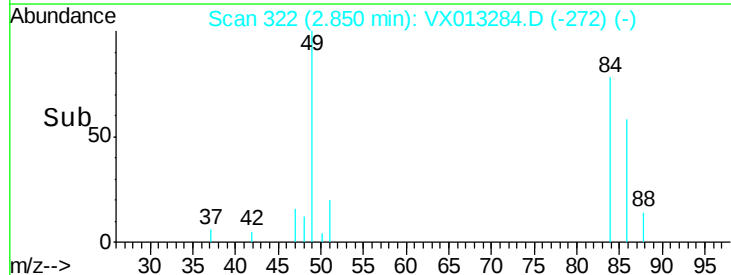
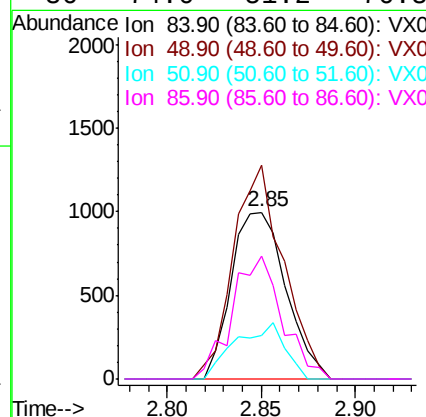
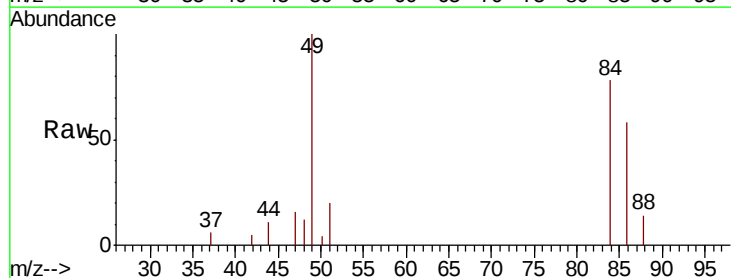
Instrument :
MSVOA_X
ClientSampled :

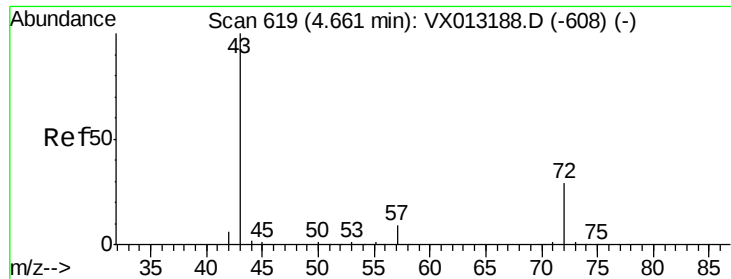
Tot Ion: 43 Resp: 750
Ion Ratio Lower Upper
43 100
74 32.1 20.9 31.3#



#20
Methylene Chloride
Concen: 1.780 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013284.D
Acq: 30 Oct 2019 14:26

Tgt Ion: 84 Resp: 2001
Ion Ratio Lower Upper
84 100
49 128.3 89.2 133.8
51 25.8 28.8 43.2#
86 74.0 51.2 76.8

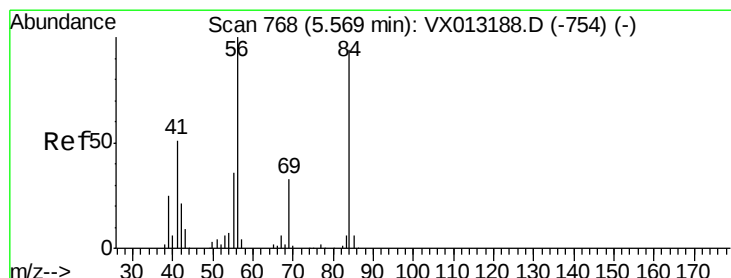
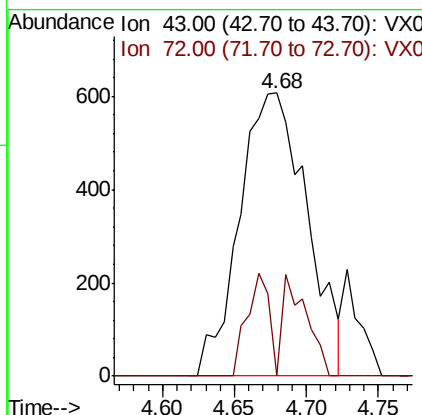
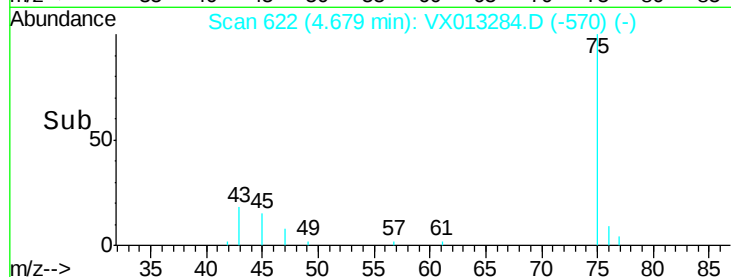
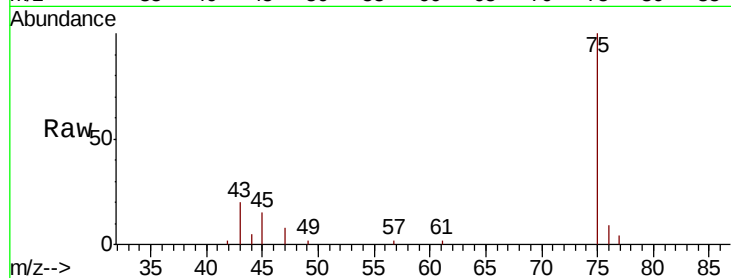




#25
2-Butanone
Concen: 2.072 ug/l
RT: 4.68 min Scan# 622
Delta R.T. 0.02 min
Lab File: VX013284.D
Acq: 30 Oct 2019 14:26

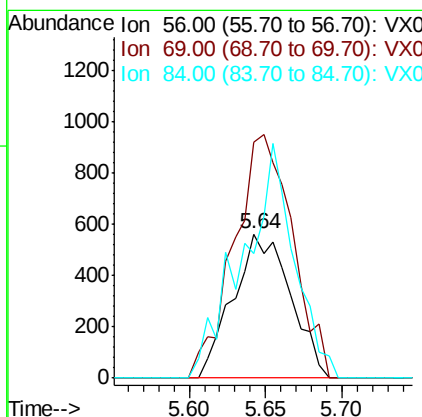
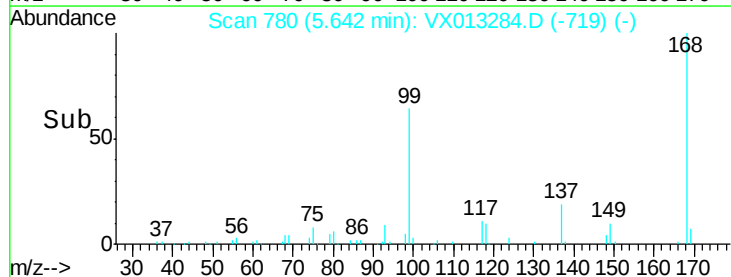
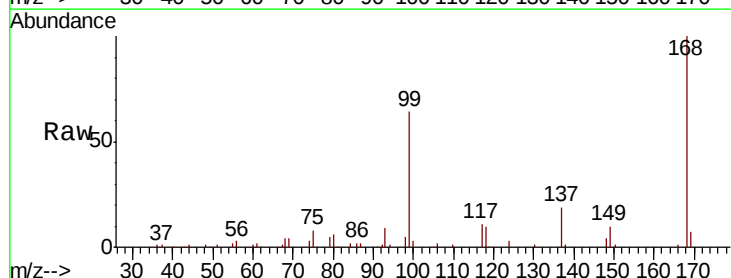
Instrument :
MSVOA_X
ClientSampleId :

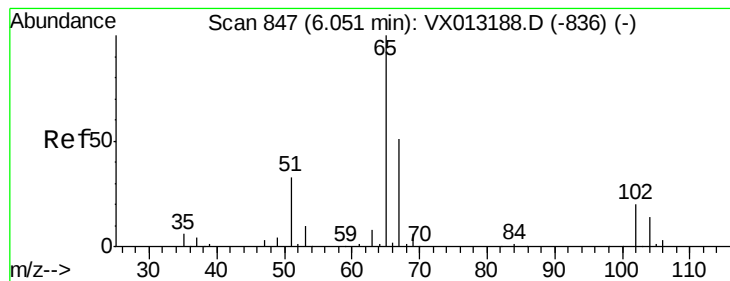
Tot Ion: 43 Resp: 1982
Ion Ratio Lower Upper
43 100
72 0.0 23.4 35.2#



#31
Cyclohexane
Concen: 0.748 ug/l
RT: 5.64 min Scan# 780
Delta R.T. 0.07 min
Lab File: VX013284.D
Acq: 30 Oct 2019 14:26

Tgt Ion: 56 Resp: 1465
Ion Ratio Lower Upper
56 100
69 163.4 26.3 39.5#
84 86.1 73.8 110.6





#33

1,2-Dichloroethane-d4

Concen: 54.553 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013284.D

Acq: 30 Oct 2019 14:26

Instrument :

MSVOA_X

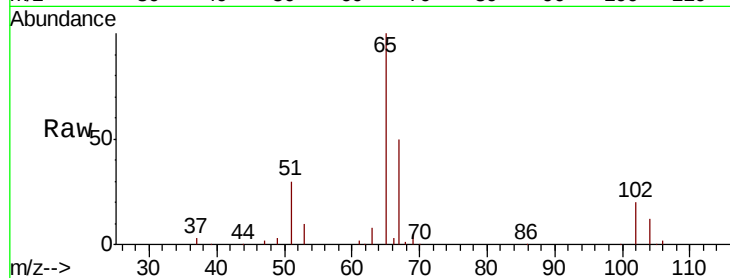
ClientSampleId :

Tot Ion: 65 Resp: 82592

Ion Ratio Lower Upper

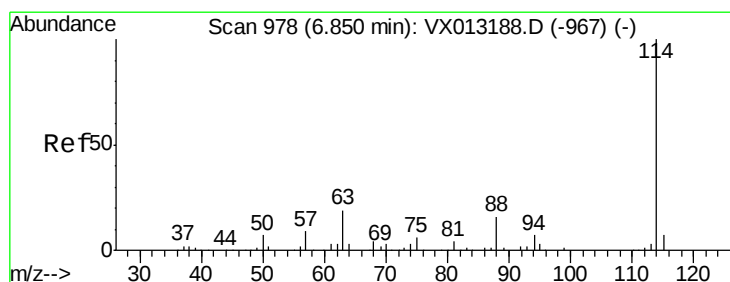
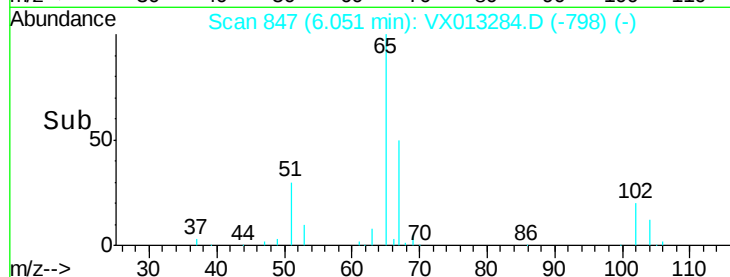
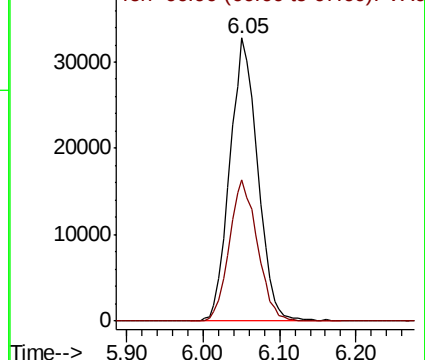
65 100

67 50.4 0.0 102.6



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: VX013284.D

Acq: 30 Oct 2019 14:26

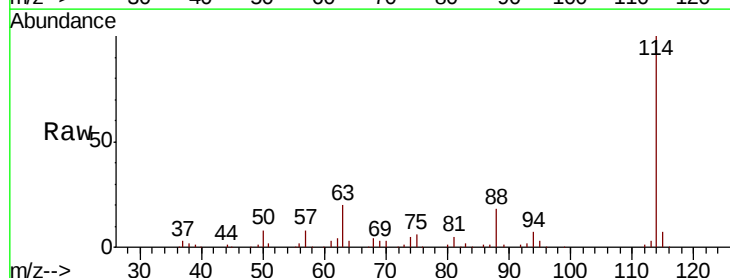
Tgt Ion: 114 Resp: 105400

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.0

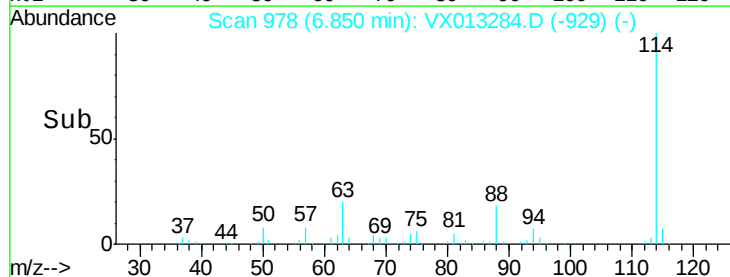
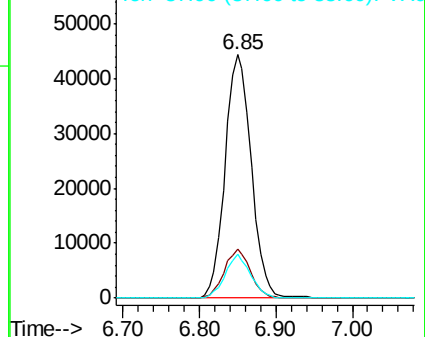
88 18.0 0.0 32.0

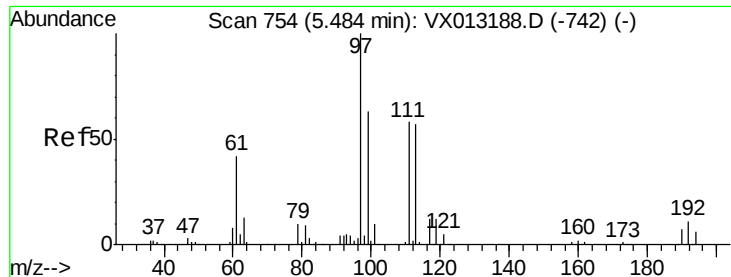


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

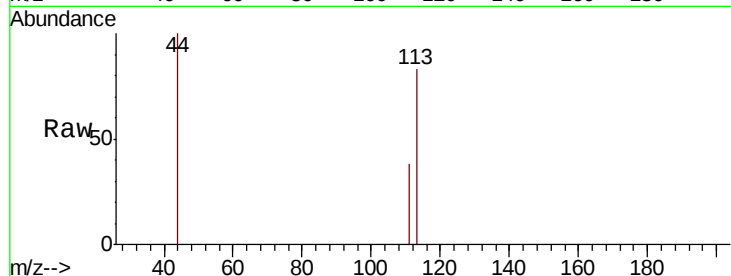




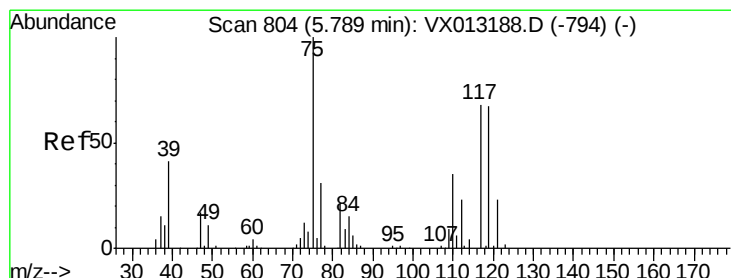
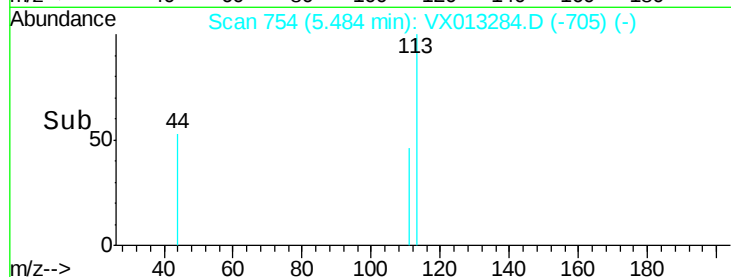
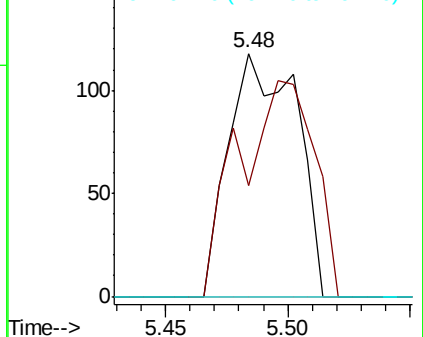
#35
 Dibromofluoromethane
 Concen: 0.195 ug/l
 RT: 5.48 min Scan# 754
 Delta R.T. -0.00 min
 Lab File: VX013284.D
 Acq: 30 Oct 2019 14:26

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:113 Resp: 229
 Ion Ratio Lower Upper
 113 100
 111 98.7 80.3 120.5
 192 0.0 15.9 23.9#

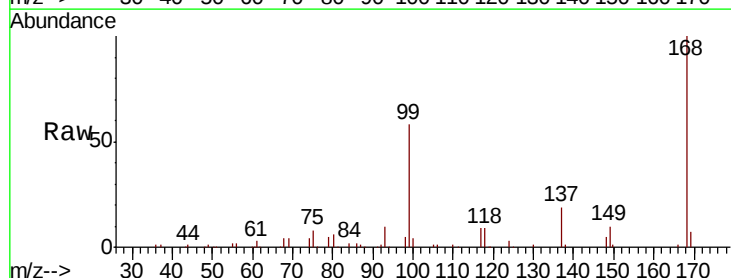


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

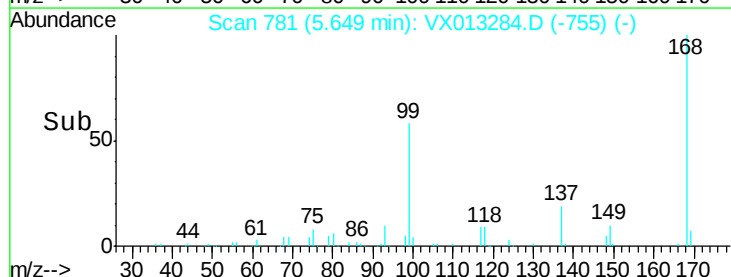
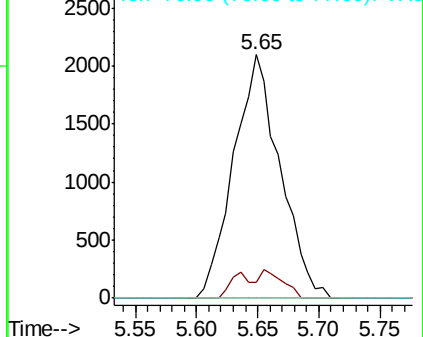


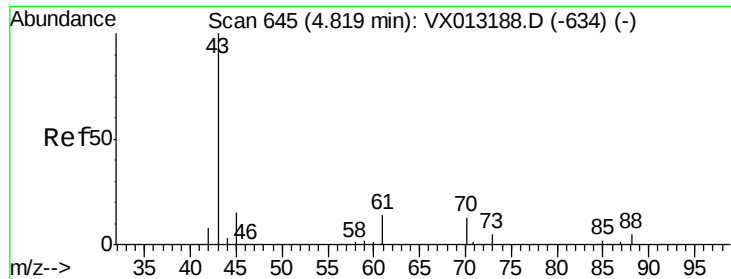
#36
 1,1-Dichloropropene
 Concen: 3.050 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX013284.D
 Acq: 30 Oct 2019 14:26

Tgt Ion: 75 Resp: 5509
 Ion Ratio Lower Upper
 75 100
 110 6.5 17.6 52.9#
 77 0.0 24.7 37.1#



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





#37

Ethyl Acetate

Concen: 1.128 ug/l

RT: 4.68 min Scan# 622

Delta R.T. -0.14 min

Lab File: VX013284.D

Acq: 30 Oct 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

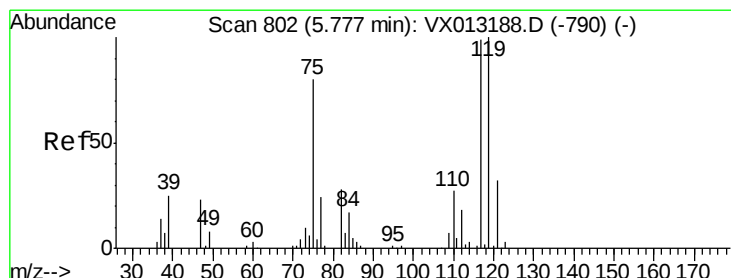
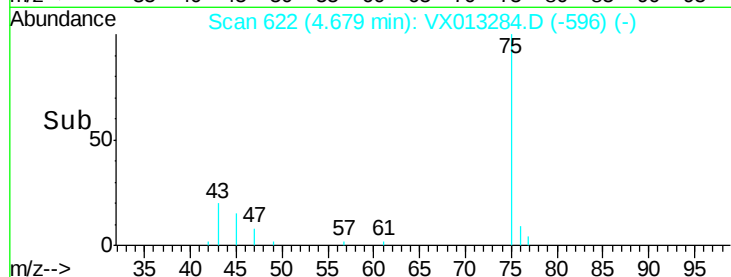
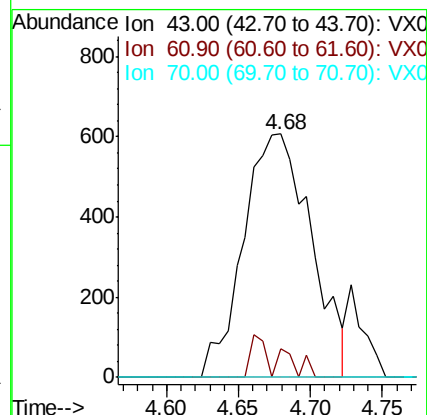
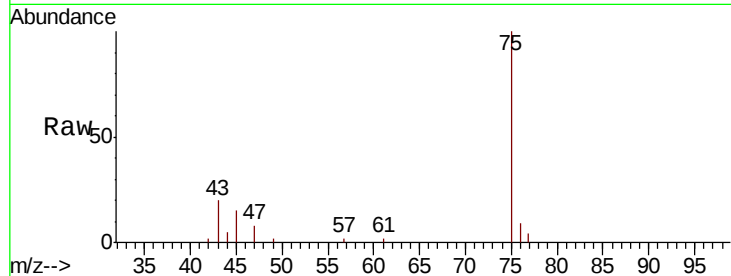
Tot Ion: 43 Resp: 1982

Ion Ratio Lower Upper

43 100

61 3.6 12.1 18.1#

70 0.0 10.4 15.6#



#38

Carbon Tetrachloride

Concen: 3.890 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013284.D

Acq: 30 Oct 2019 14:26

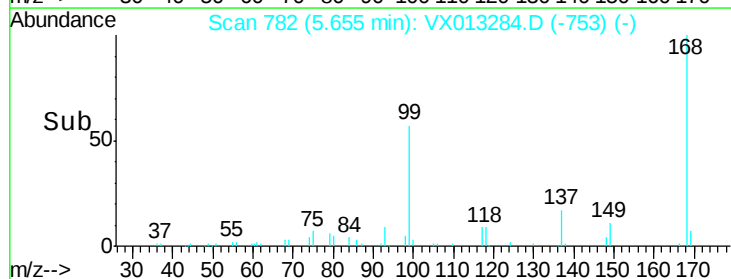
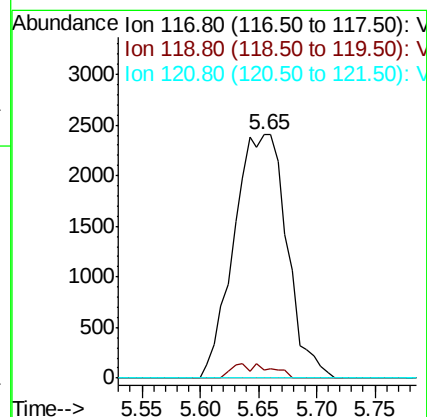
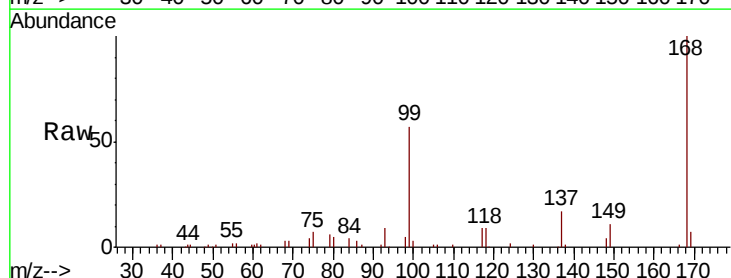
Tgt Ion: 117 Resp: 7578

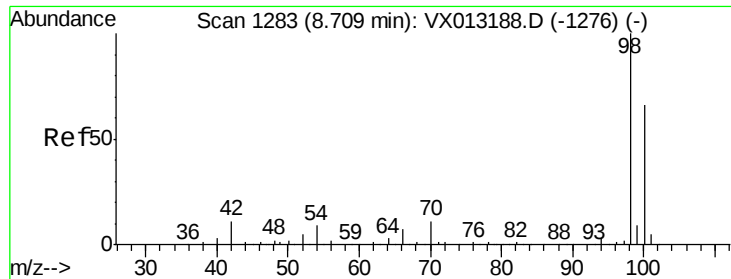
Ion Ratio Lower Upper

117 100

119 3.2 80.1 120.1#

121 0.0 25.5 38.3#

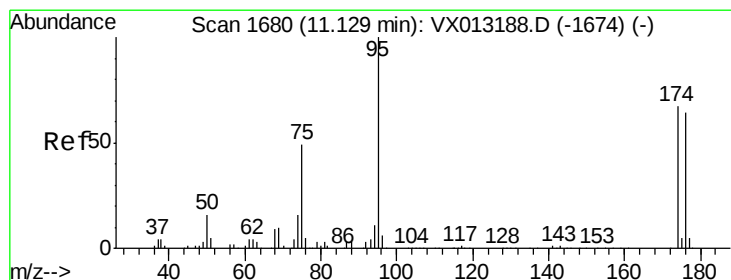
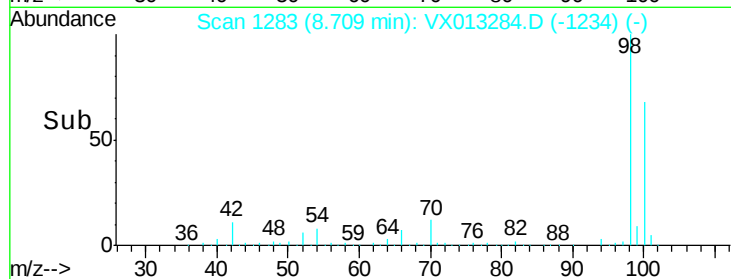
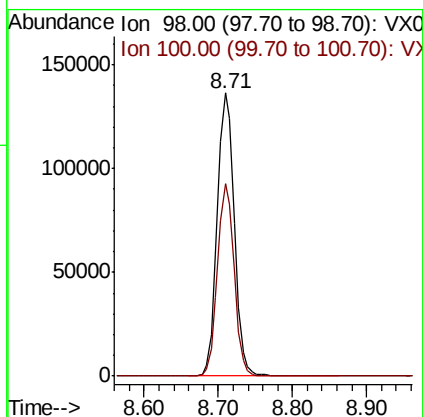
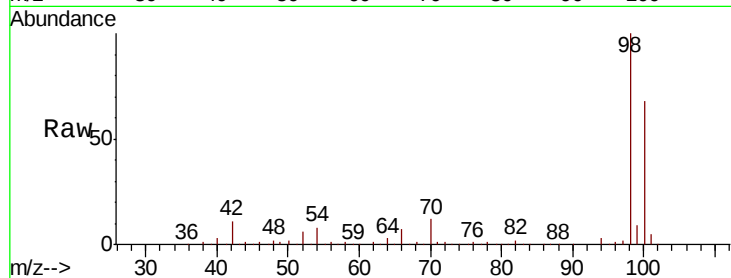




#50
Toluene-d8
Concen: 49.384 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. -0.00 min
Lab File: VX013284.D
Acq: 30 Oct 2019 14:26

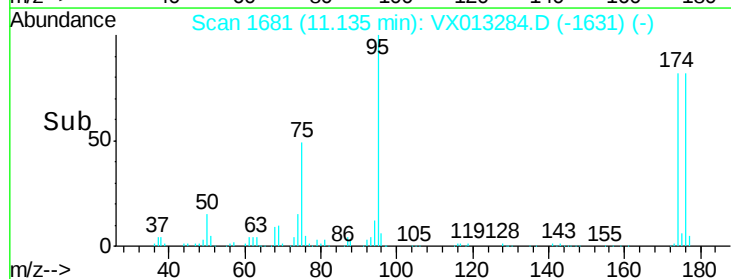
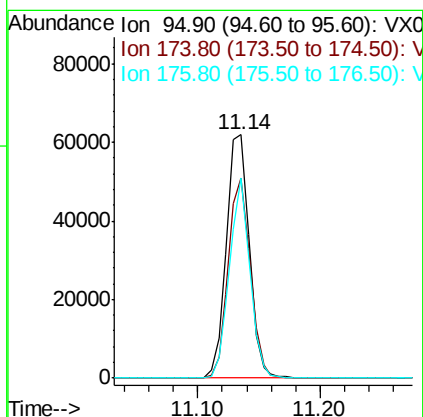
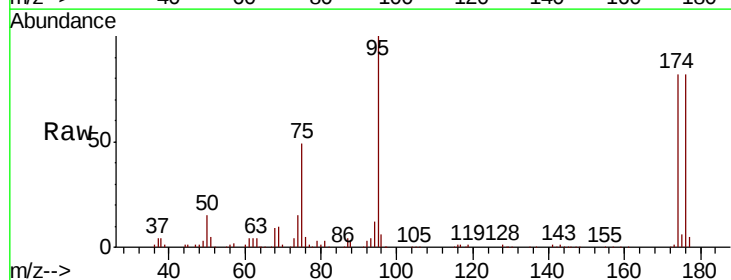
Instrument :
MSVOA_X
ClientSampleId :

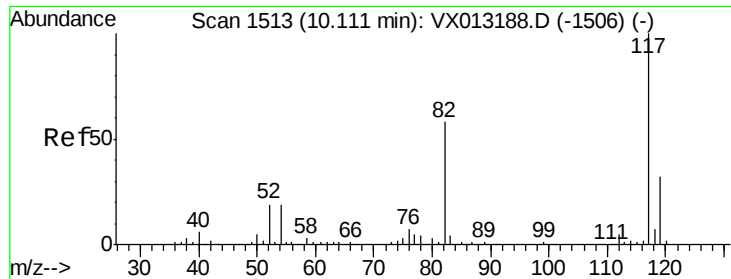
Tot Ion: 98 Resp: 215104
Ion Ratio Lower Upper
98 100
100 66.5 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 46.525 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX013284.D
Acq: 30 Oct 2019 14:26

Tgt Ion: 95 Resp: 80210
Ion Ratio Lower Upper
95 100
174 79.5 0.0 152.4
176 72.9 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013284.D

Acq: 30 Oct 2019 14:26

Instrument :

MSVOA_X

ClientSampled :

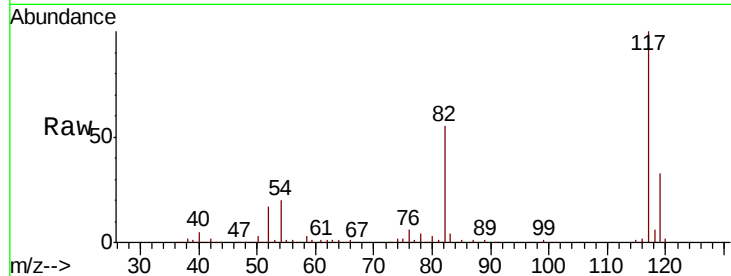
Tot Ion:117 Resp: 103957

Ion Ratio Lower Upper

117 100

82 54.7 46.5 69.7

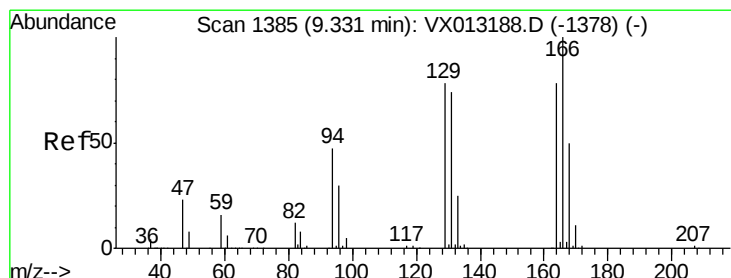
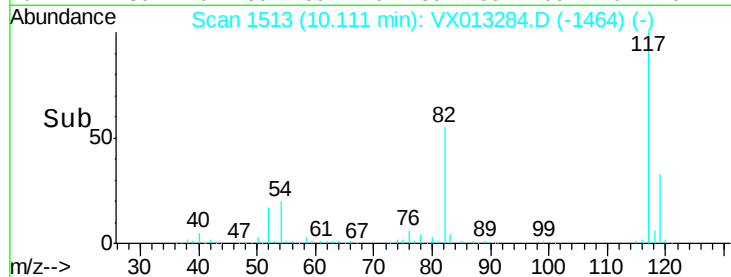
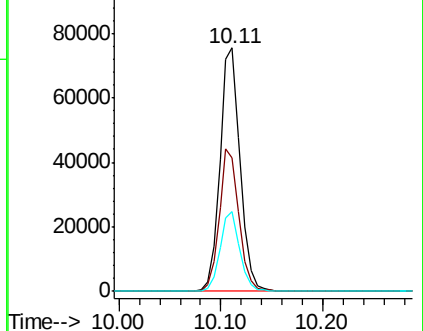
119 32.6 25.2 37.8



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



#64

Tetrachloroethene

Concen: Below Cal

RT: 9.32 min Scan# 1384

Delta R.T. -0.01 min

Lab File: VX013284.D

Acq: 30 Oct 2019 14:26

Tgt Ion:164 Resp: 37

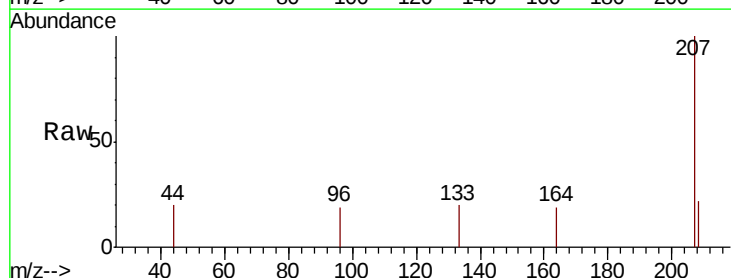
Ion Ratio Lower Upper

164 100

166 0.0 102.2 153.4#

129 0.0 79.8 119.8#

131 0.0 75.3 112.9#

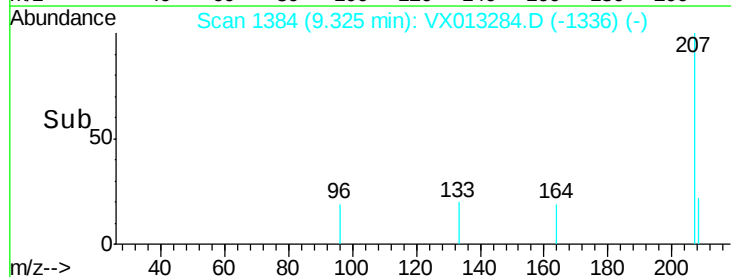
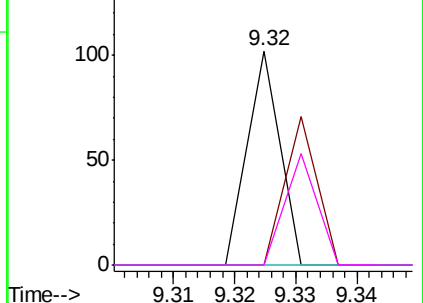


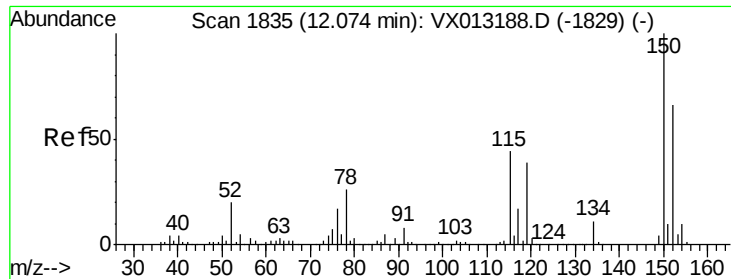
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX013284.D

Acq: 30 Oct 2019 14:26

Instrument :

MSVOA_X

ClientSampled :

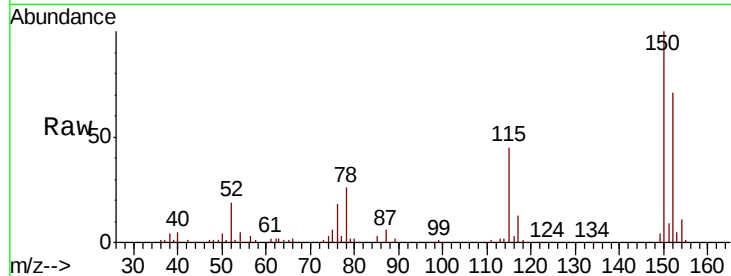
Tot Ion:152 Resp: 67323

Ion Ratio Lower Upper

152 100

115 64.0 46.6 139.8

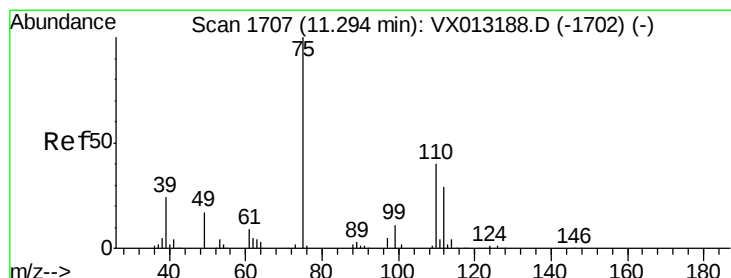
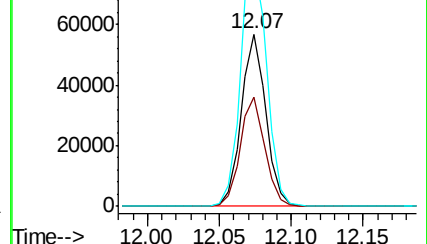
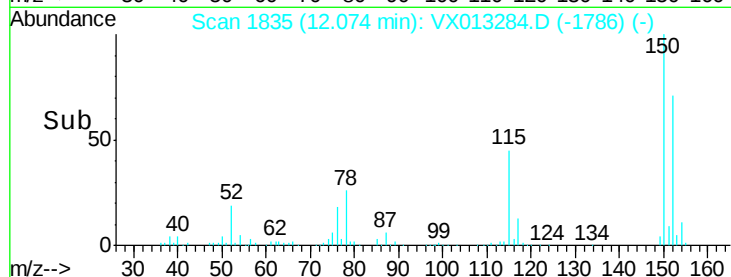
150 151.4 0.0 354.0



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: 24.938 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013284.D

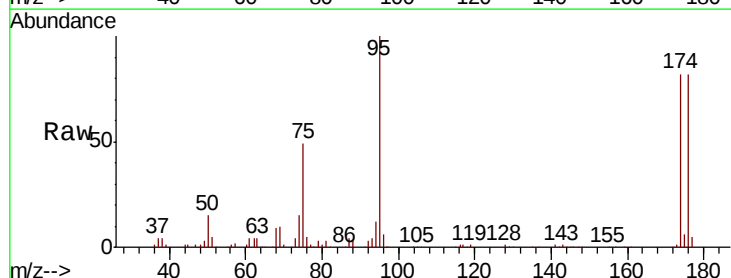
Acq: 30 Oct 2019 14:26

Tgt Ion: 75 Resp: 40465

Ion Ratio Lower Upper

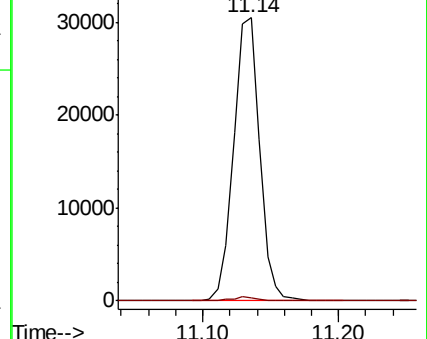
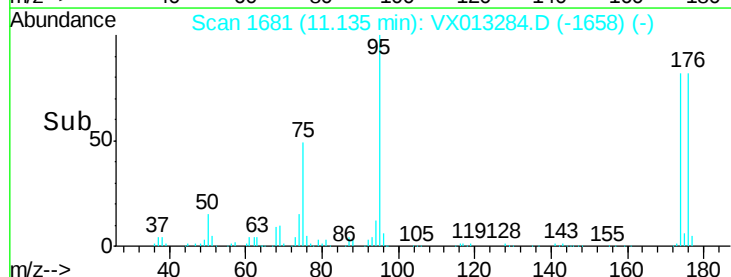
75 100

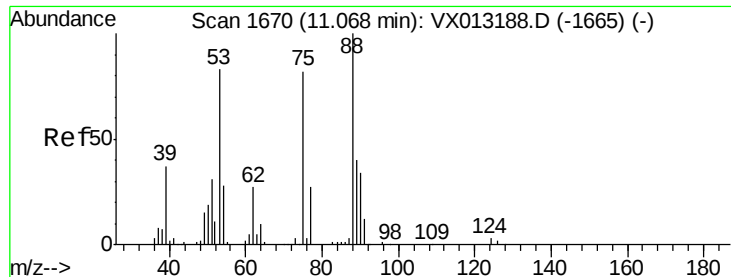
77 1.4 19.1 57.5#



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: 68.529 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013284.D

Acq: 30 Oct 2019 14:26

Instrument :

MSVOA_X

ClientSampleId :

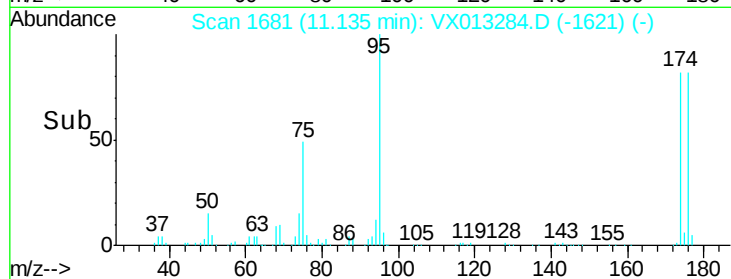
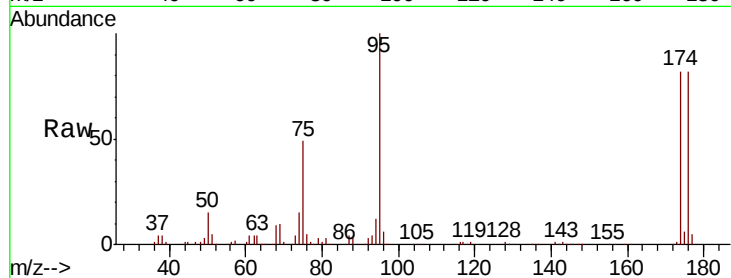
Tot Ion: 75 Resp: 40465

Ion Ratio Lower Upper

75 100

53 0.0 77.9 116.9#

89 0.0 37.3 55.9#



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

