

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020620\
 Data File : VX014857.D
 Acq On : 06 Feb 2020 18:53
 Operator : JC/SP
 Sample : L1431-01
 Misc : 4.33uL/5mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 07 00:51:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X012220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 22 12:35:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	451117	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	687594	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	628017	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	312696	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	248664	47.20	ug/l	0.00
Spiked Amount			Recovery	=	94.40%	
35) Dibromofluoromethane	5.50	113	200158	46.13	ug/l	0.00
Spiked Amount			Recovery	=	92.26%	
50) Toluene-d8	8.71	98	809493	48.53	ug/l	0.00
Spiked Amount			Recovery	=	97.06%	
62) 4-Bromofluorobenzene	11.14	95	290120	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	

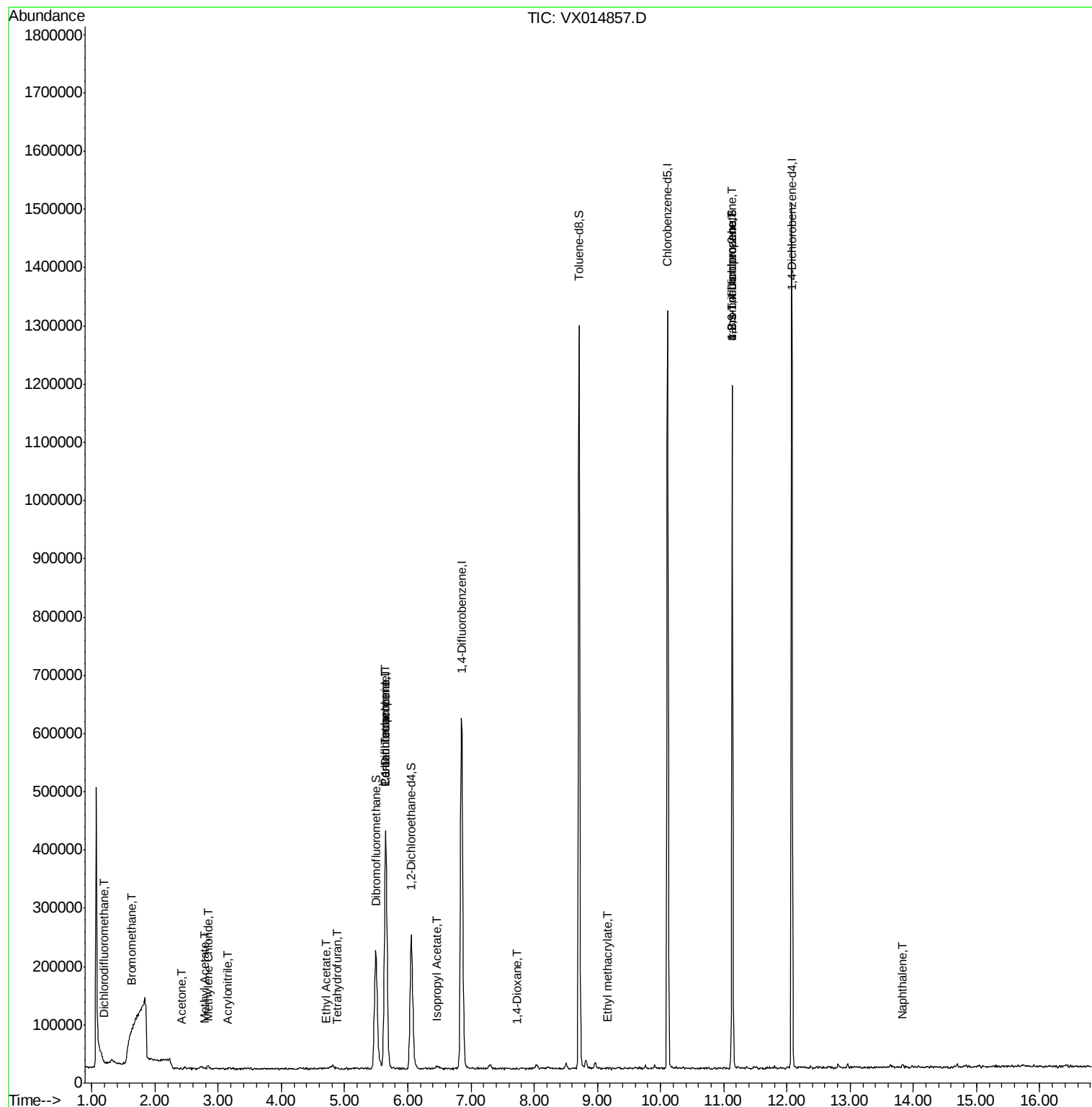
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	439	0.603	ug/l #	42
5) Bromomethane	1.62	94	1058	0.236	ug/l #	55
6) Chloroethane	1.72	64	250	Below Cal	#	48
15) Acrylonitrile	3.14	53	550	0.201	ug/l #	32
16) Acetone	2.42	43	151	0.203	ug/l #	44
18) Methyl Acetate	2.78	43	1693	0.205	ug/l #	87
20) Methylene Chloride	2.84	84	3968	0.743	ug/l #	80
29) Tetrahydrofuran	4.89	42	505	0.206	ug/l	95
36) 1,1-Dichloropropene	5.65	75	29457	4.611	ug/l #	53
37) Ethyl Acetate	4.71	43	1642	0.224	ug/l #	79
38) Carbon Tetrachloride	5.65	117	39665	6.500	ug/l #	15
41) Methacrylonitrile	5.03	41	499	Below Cal	#	47
43) Isopropyl Acetate	6.46	43	4021	0.336	ug/l #	75
49) 1,4-Dioxane	7.73	88	486	4.004	ug/l #	21
56) Ethyl methacrylate	9.17	69	234	1.811	ug/l #	23
76) 1,2,3-Trichloropropane	11.14	75	143028	19.660	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.14	75	143028	55.949	ug/l #	11
95) Naphthalene	13.83	128	3599	1.093	ug/l #	75

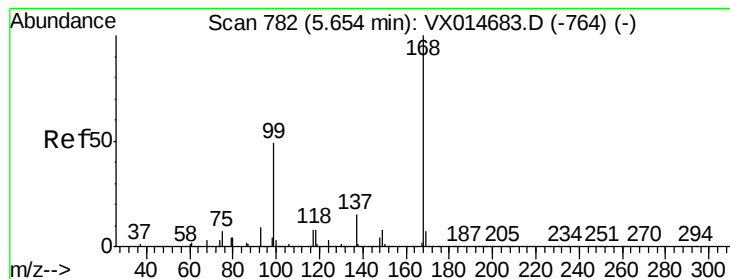
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.01 min

Lab File: VX014857.D

Acq: 06 Feb 2020 18:53

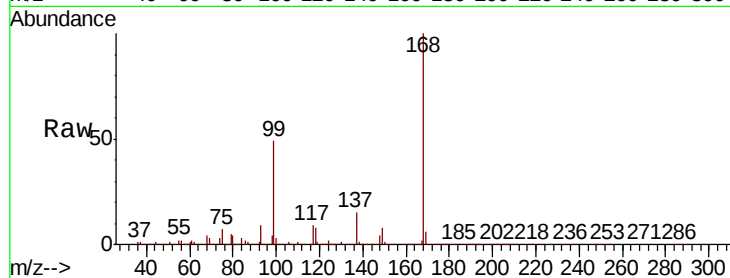
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 451117

Ion Ratio Lower Upper

168 100

99 48.7 39.8 59.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

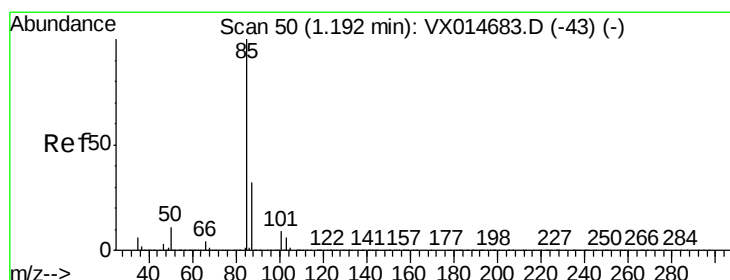
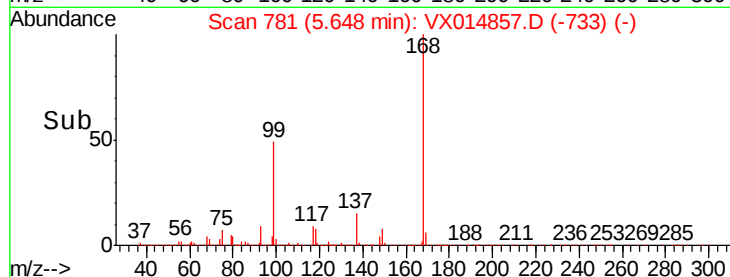
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.603 ug/l

RT: 1.20 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX014857.D

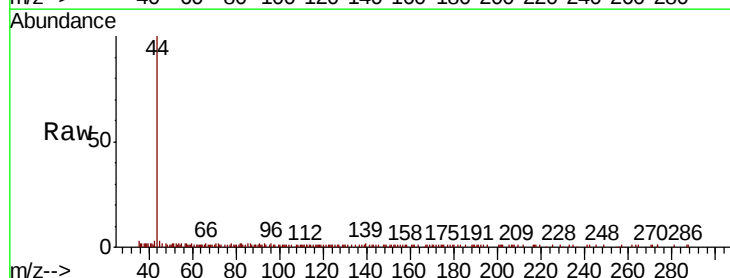
Acq: 06 Feb 2020 18:53

Tgt Ion: 85 Resp: 439

Ion Ratio Lower Upper

85 100

87 64.6 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

300

250

200

150

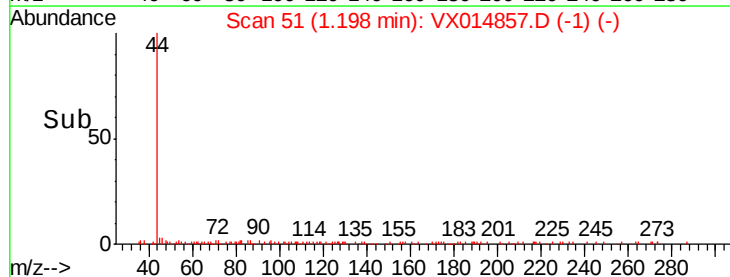
100

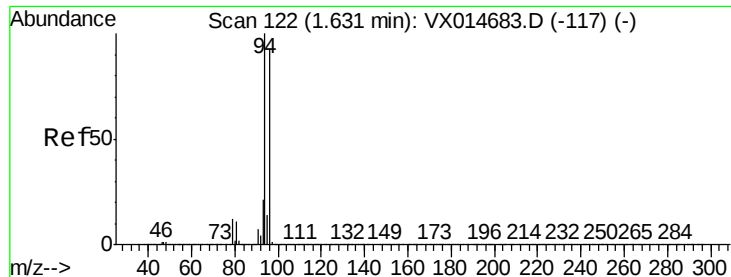
50

0

Time-->

1.16 1.18 1.20 1.22





#5

Bromomethane

Concen: 0.236 ug/l

RT: 1.62 min Scan# 121

Delta R.T. -0.01 min

Lab File: VX014857.D

Acq: 06 Feb 2020 18:53

Instrument :

MSVOA_X

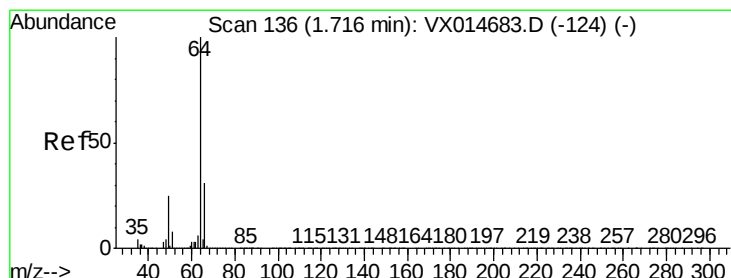
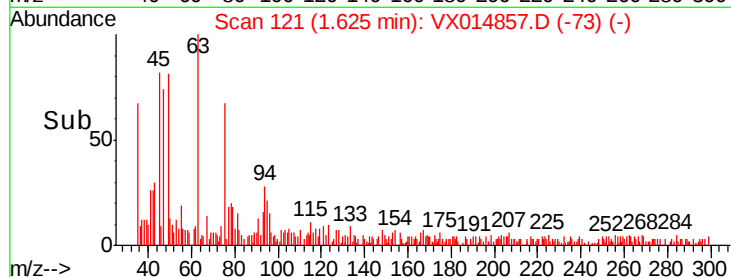
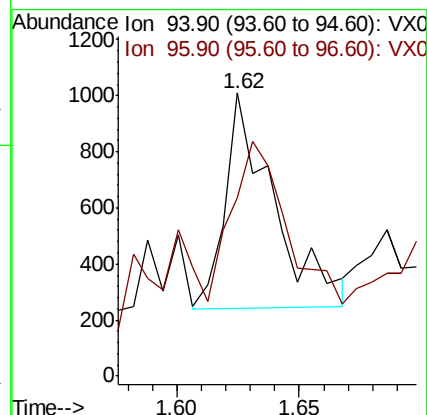
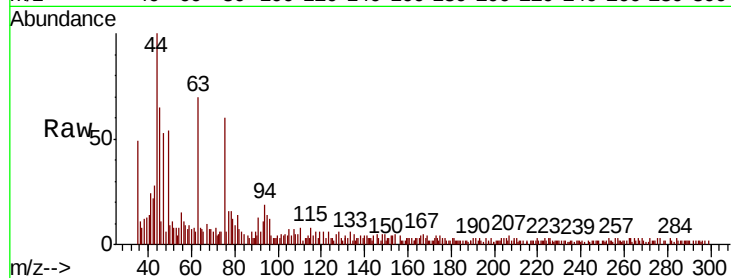
ClientSampled :

Tot Ion: 94 Resp: 1058

Ion Ratio Lower Upper

94 100

96 49.9 74.7 112.1#



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX014857.D

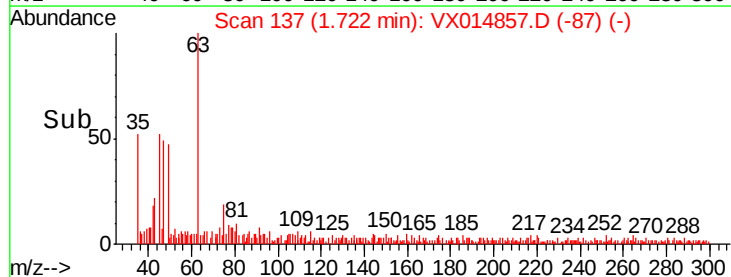
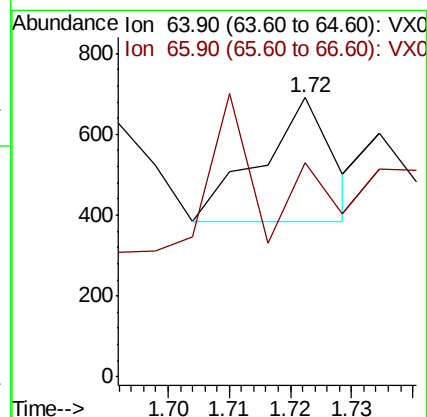
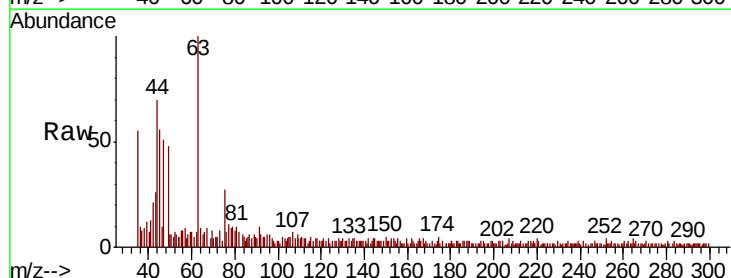
Acq: 06 Feb 2020 18:53

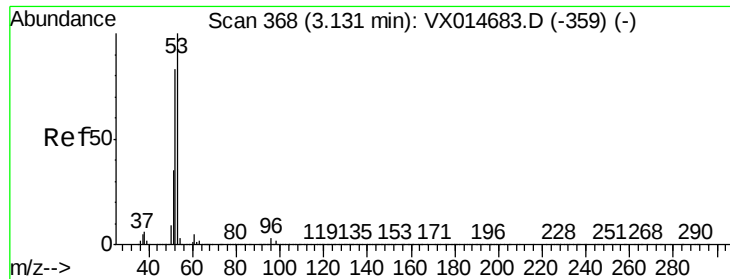
Tgt Ion: 64 Resp: 250

Ion Ratio Lower Upper

64 100

66 60.3 25.2 37.8#





#15

Acrylonitrile

Concen: 0.201 ug/l

RT: 3.14 min Scan# 369

Delta R.T. 0.01 min

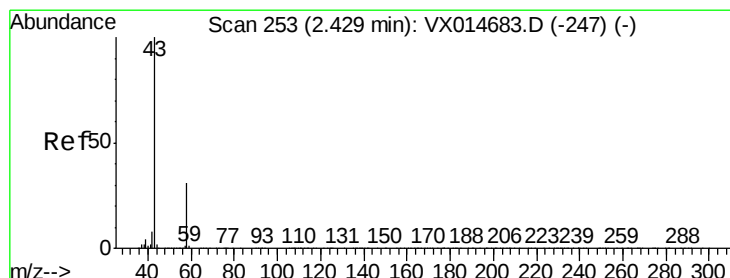
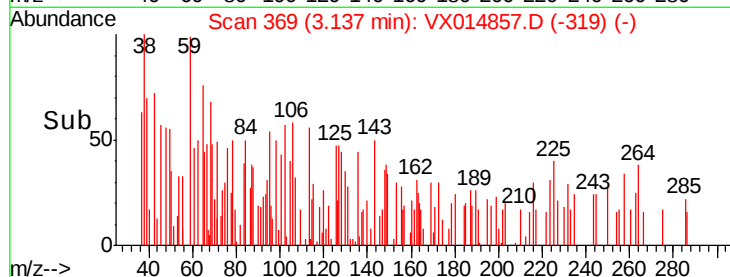
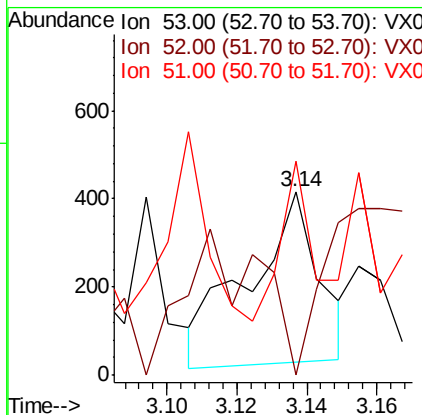
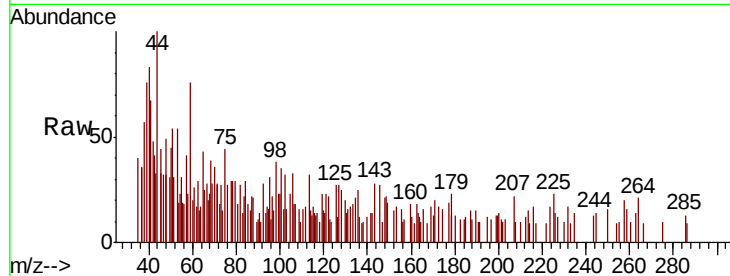
Lab File: VX014857.D

Acq: 06 Feb 2020 18:53

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 53 Resp: 550

Ion	Ratio	Lower	Upper
53	100		
52	0.0	66.4	99.6#
51	43.8	28.7	43.1#



#16

Acetone

Concen: 0.203 ug/l

RT: 2.42 min Scan# 252

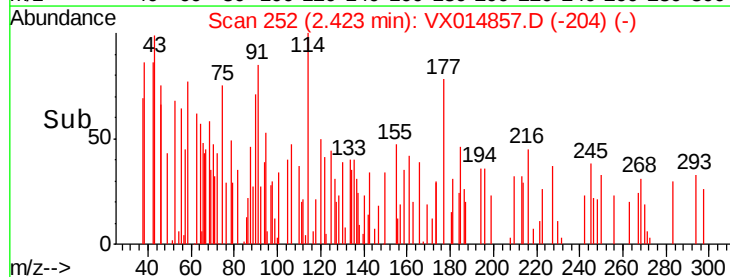
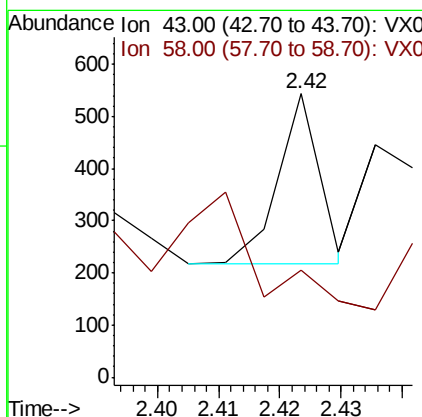
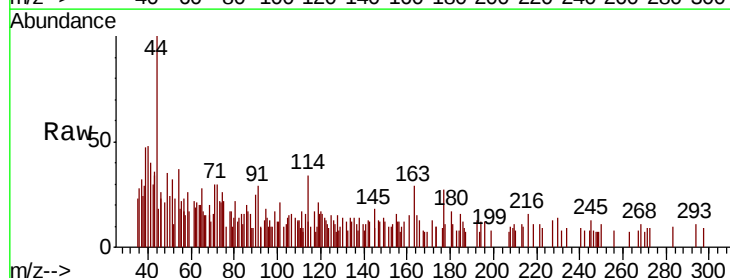
Delta R.T. -0.01 min

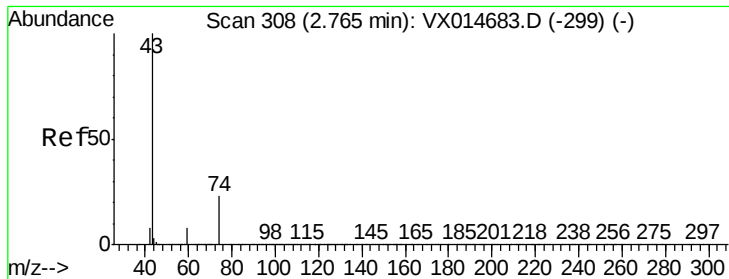
Lab File: VX014857.D

Acq: 06 Feb 2020 18:53

Tgt Ion: 43 Resp: 151

Ion	Ratio	Lower	Upper
43	100		
58	0.0	24.5	36.7#

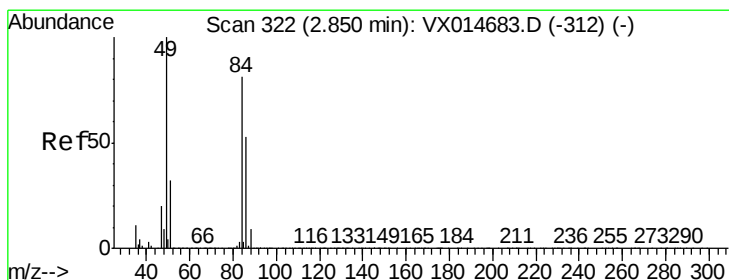
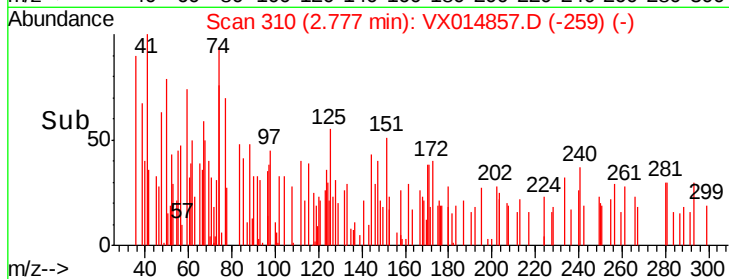
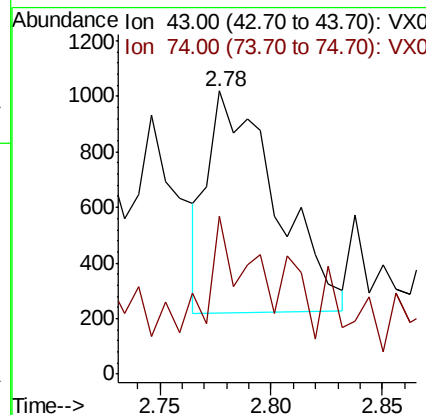
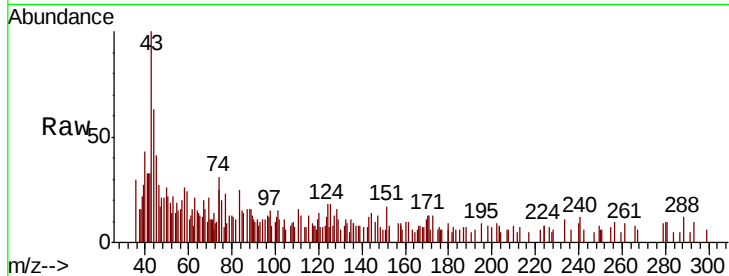




#18
Methyl Acetate
Concen: 0.205 ug/l
RT: 2.78 min Scan# 310
Delta R.T. 0.01 min
Lab File: VX014857.D
Acq: 06 Feb 2020 18:53

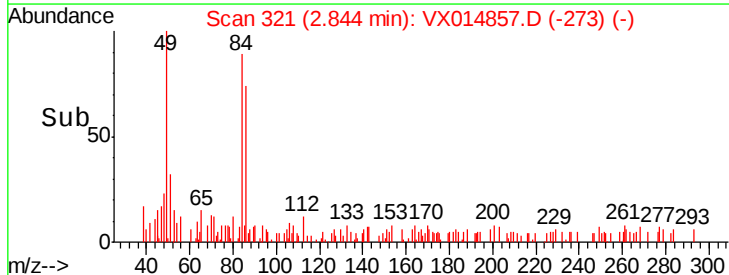
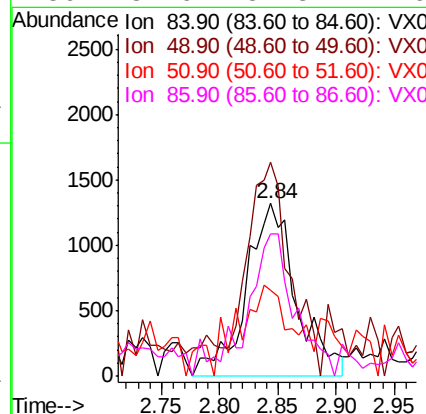
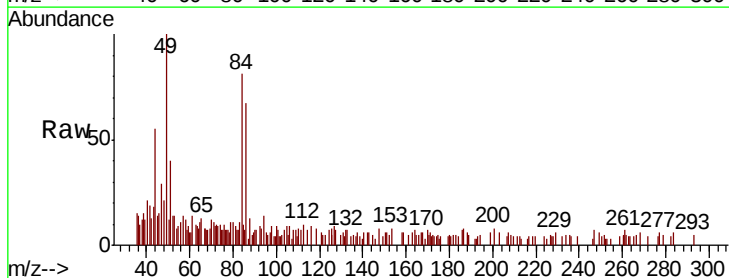
Instrument :
MSVOA_X
ClientSampled :

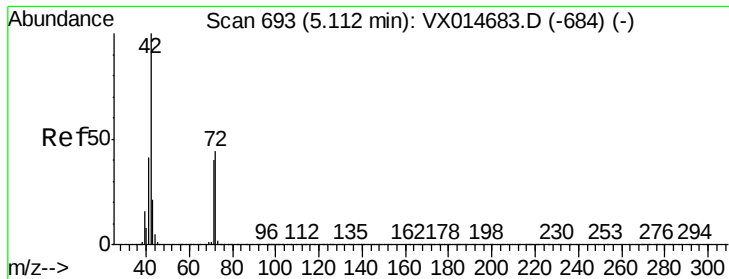
Tot Ion: 43 Resp: 1693
Ion Ratio Lower Upper
43 100
74 29.7 18.5 27.7#



#20
Methylene Chloride
Concen: 0.743 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX014857.D
Acq: 06 Feb 2020 18:53

Tgt Ion: 84 Resp: 3968
Ion Ratio Lower Upper
84 100
49 96.4 98.2 147.4#
51 35.6 31.3 46.9
86 82.6 51.8 77.6#





#29

Tetrahydrofuran

Concen: 0.206 ug/l

RT: 4.89 min Scan# 656

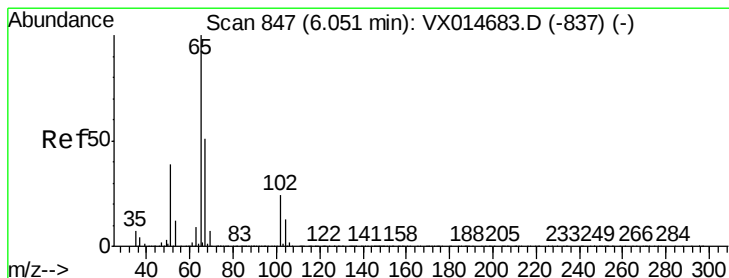
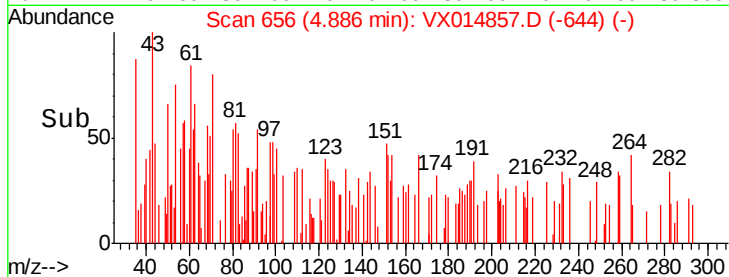
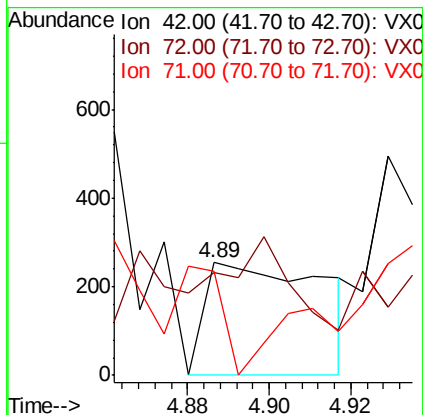
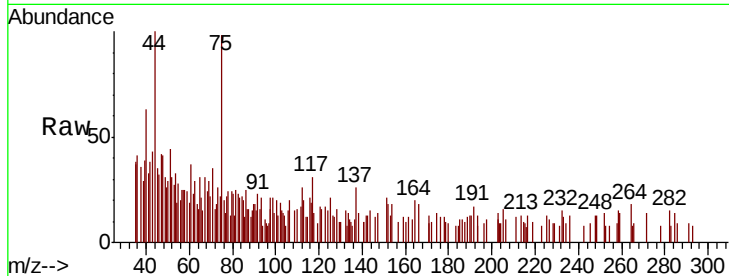
Delta R.T. -0.23 min

Lab File: VX014857.D

Acq: 06 Feb 2020 18:53

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	42	Resp:	505
Ion	Ratio	Lower	Upper
42	100		
72	43.6	35.3	52.9
71	34.9	33.1	49.7



#33

1,2-Dichloroethane-d4

Concen: 47.203 ug/l

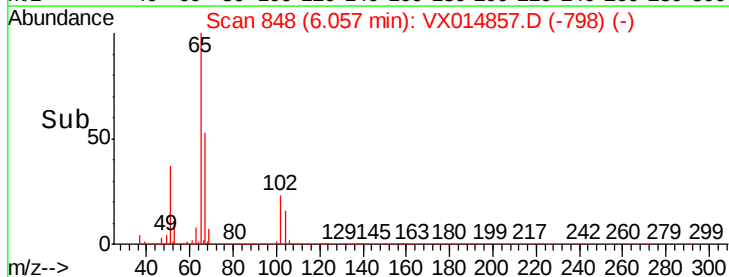
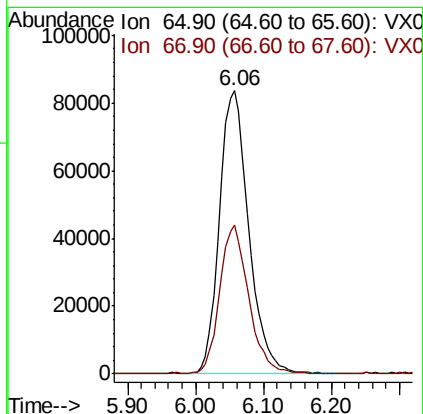
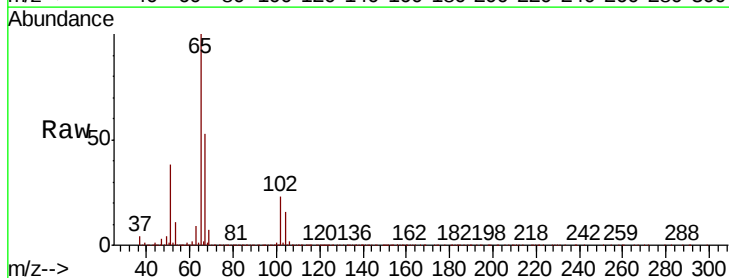
RT: 6.06 min Scan# 848

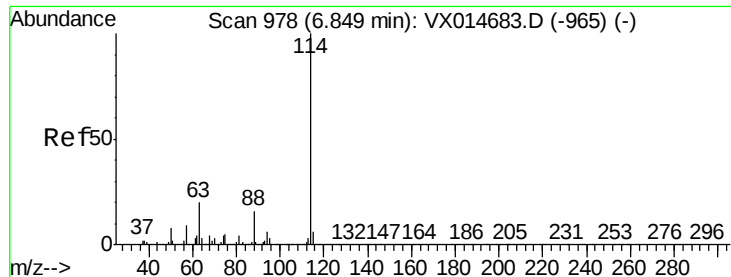
Delta R.T. 0.01 min

Lab File: VX014857.D

Acq: 06 Feb 2020 18:53

Tgt Ion:	65	Resp:	248664
Ion	Ratio	Lower	Upper
65	100		
67	52.1	0.0	107.4

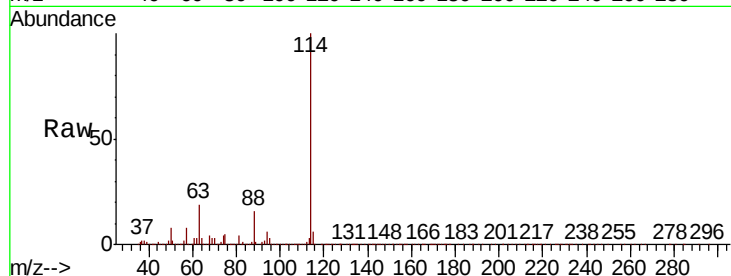




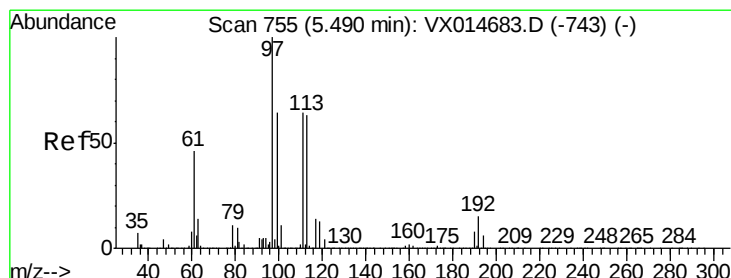
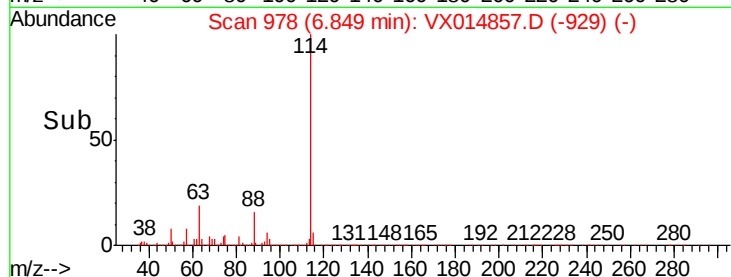
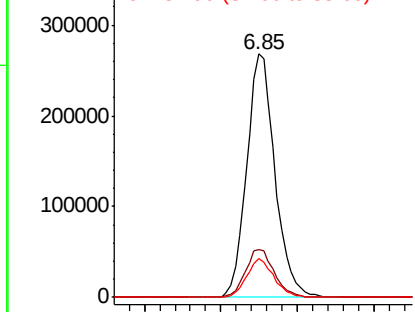
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 978
Delta R.T. 0.00 min
Lab File: VX014857.D
Acq: 06 Feb 2020 18:53

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	40.6
88	16.0	0.0	31.2

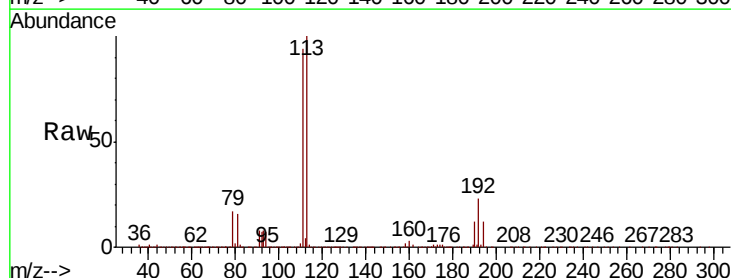


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

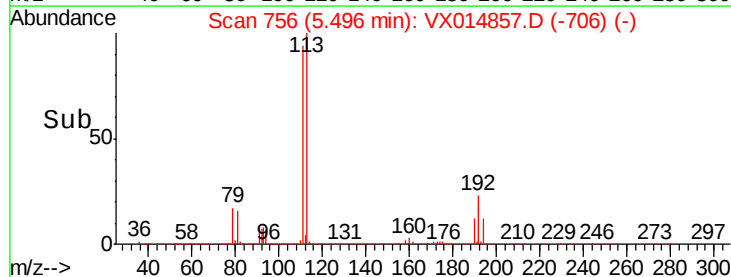
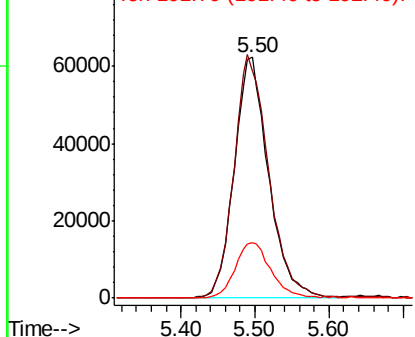


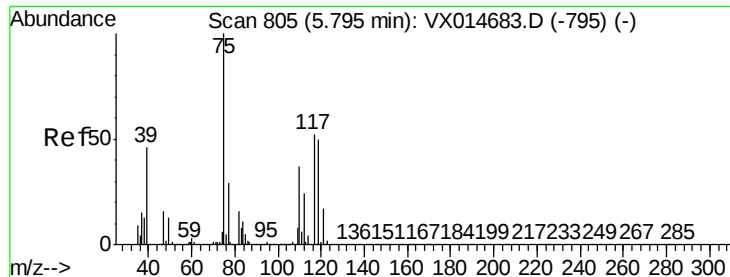
#35
Dibromofluoromethane
Concen: 46.134 ug/l
RT: 5.50 min Scan# 756
Delta R.T. 0.01 min
Lab File: VX014857.D
Acq: 06 Feb 2020 18:53

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	80.7	121.1
192	23.8	18.5	27.7



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

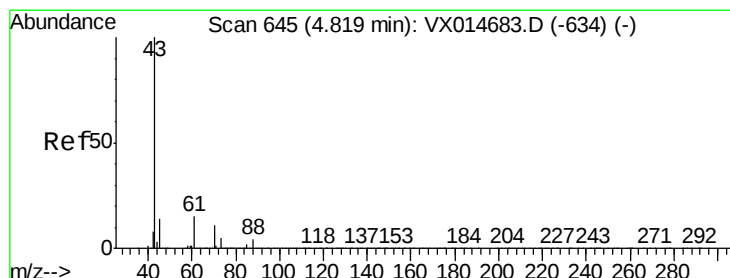
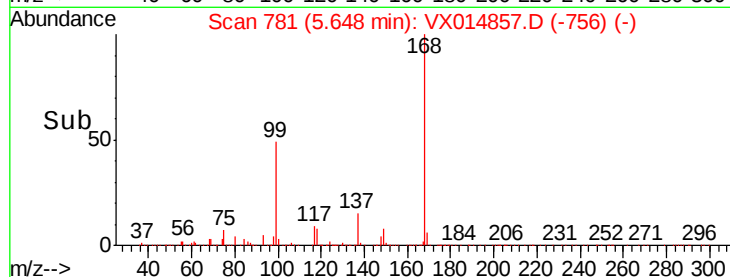
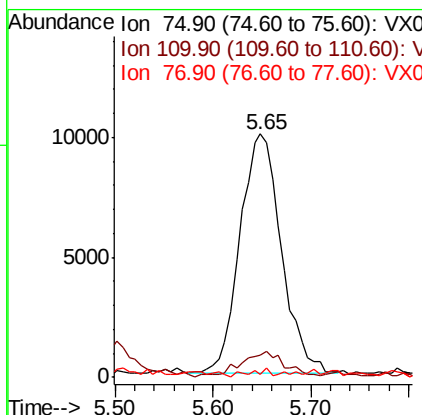
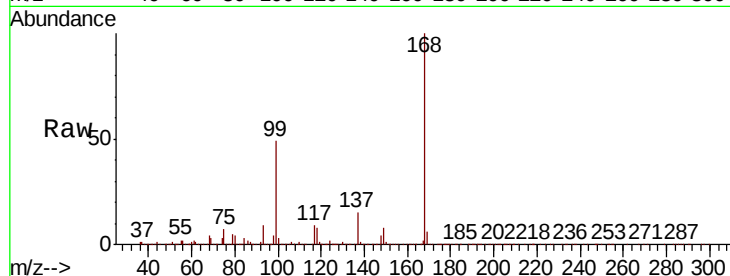




#36
 1,1-Dichloropropene
 Concen: 4.611 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX014857.D
 Acq: 06 Feb 2020 18:53

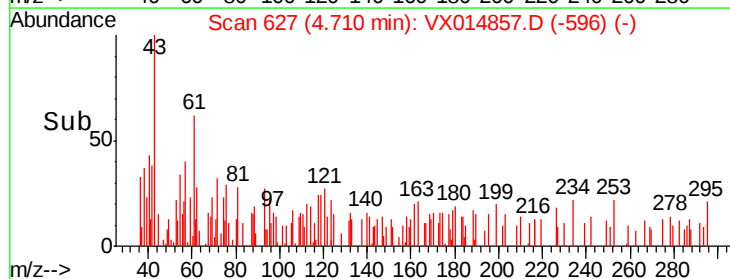
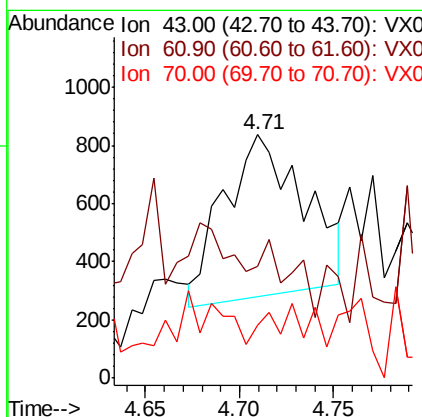
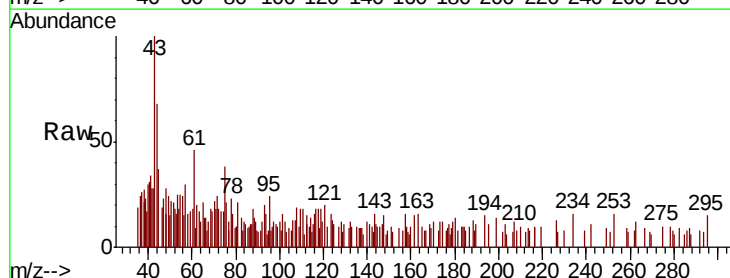
Instrument :
 MSVOA_X
 ClientSampleId :

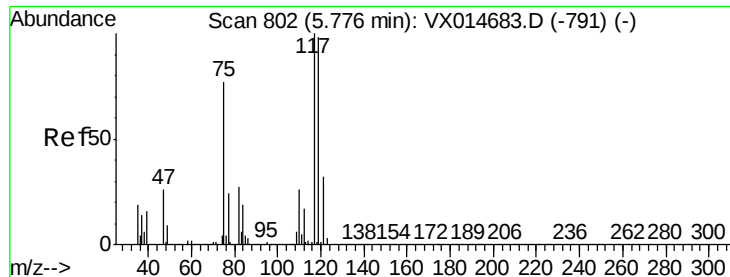
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.7	17.9	53.7#
77	1.2	24.1	36.1#



#37
 Ethyl Acetate
 Concen: 0.224 ug/l
 RT: 4.71 min Scan# 627
 Delta R.T. -0.11 min
 Lab File: VX014857.D
 Acq: 06 Feb 2020 18:53

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.0	16.4#
70	8.8	8.5	12.7





#38

Carbon Tetrachloride

Concen: 6.500 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX014857.D

Acq: 06 Feb 2020 18:53

Instrument :

MSVOA_X

ClientSampleId :

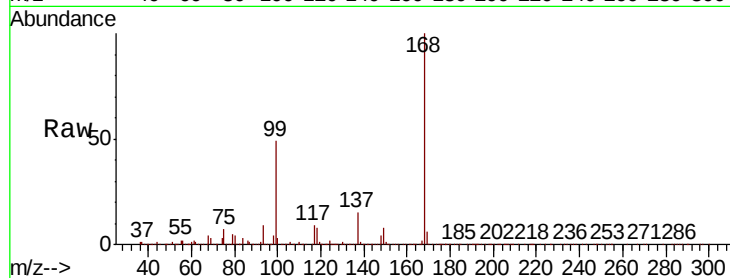
Tot Ion:117 Resp: 39665

Ion Ratio Lower Upper

117 100

119 4.9 77.9 116.9#

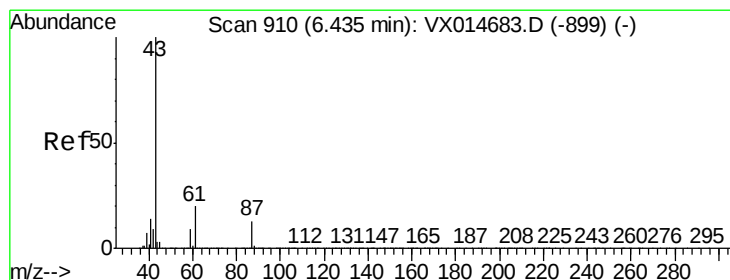
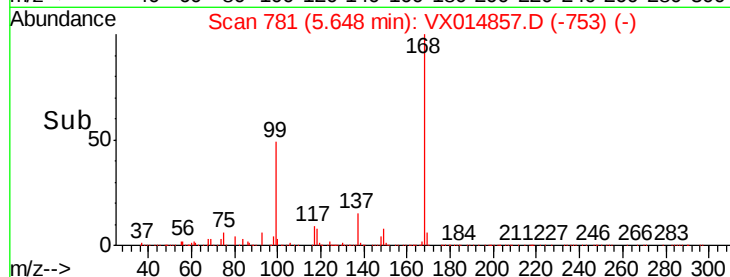
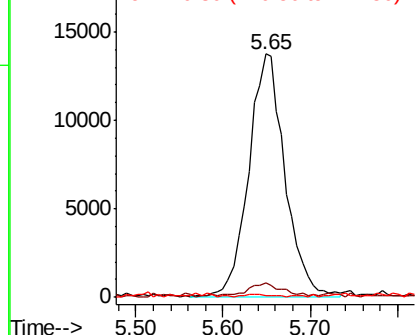
121 0.4 25.4 38.2#



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



#43

Isopropyl Acetate

Concen: 0.336 ug/l

RT: 6.46 min Scan# 914

Delta R.T. 0.02 min

Lab File: VX014857.D

Acq: 06 Feb 2020 18:53

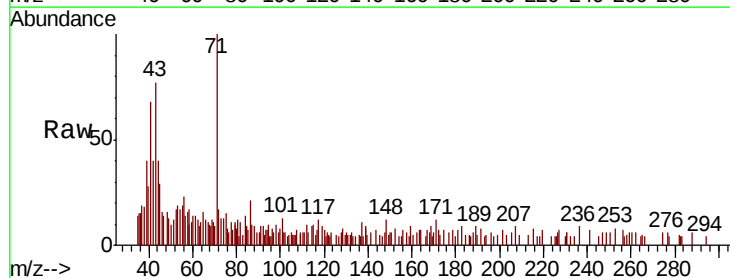
Tgt Ion: 43 Resp: 4021

Ion Ratio Lower Upper

43 100

61 11.2 16.2 24.4#

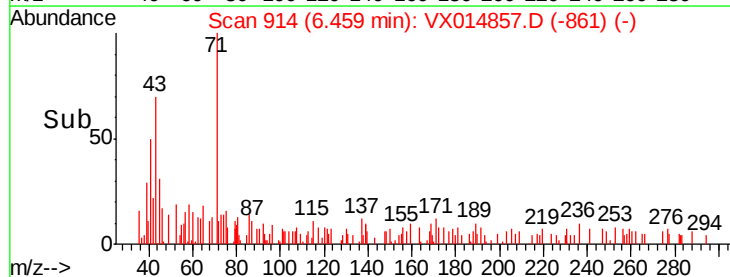
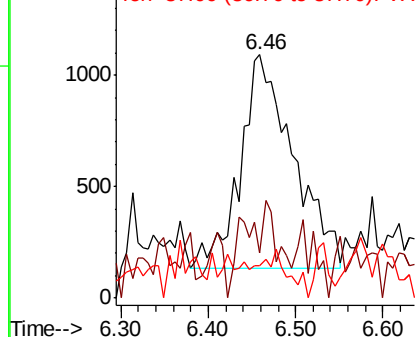
87 0.0 10.5 15.7#

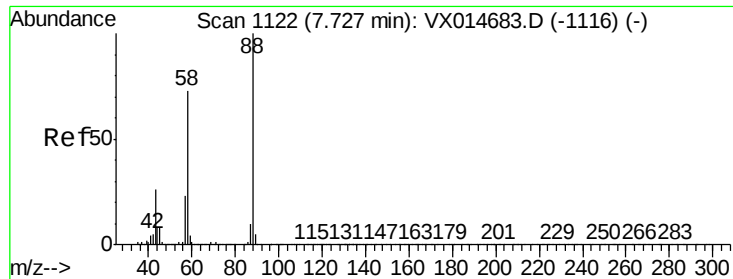


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#49

1,4-Dioxane

Concen: 4.004 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. 0.00 min

Lab File: VX014857.D

Acq: 06 Feb 2020 18:53

Instrument :

MSVOA_X

ClientSampleId :

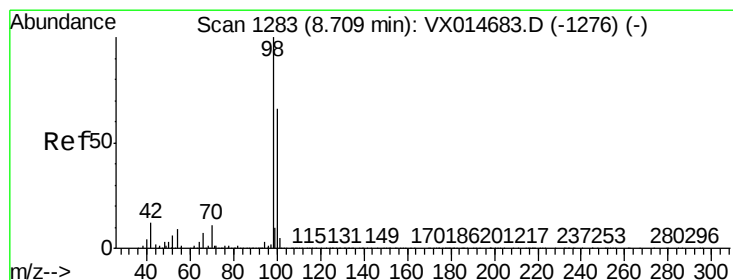
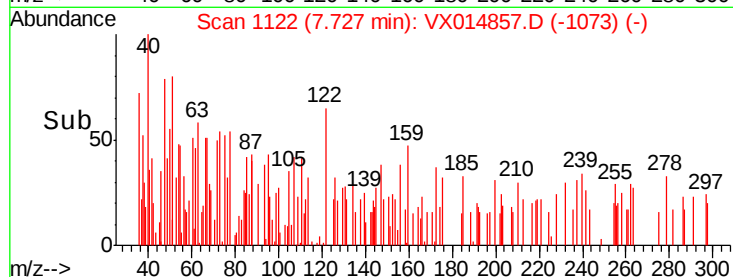
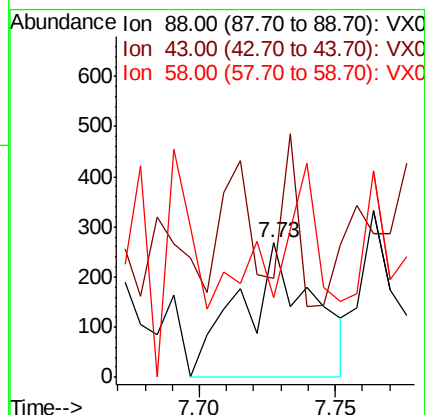
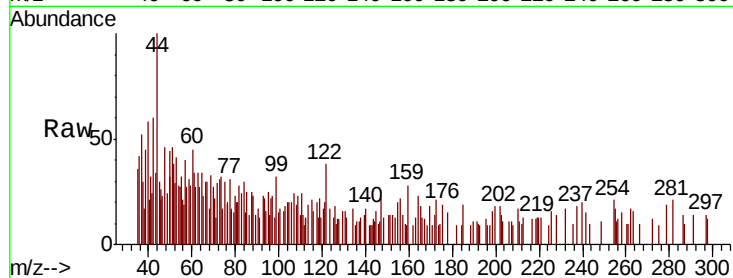
Tot Ion: 88 Resp: 486

Ion Ratio Lower Upper

88 100

43 68.9 26.2 39.2#

58 0.0 56.6 85.0#



#50

Toluene-d8

Concen: 48.532 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014857.D

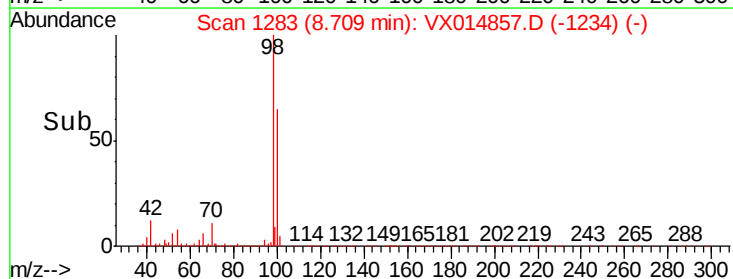
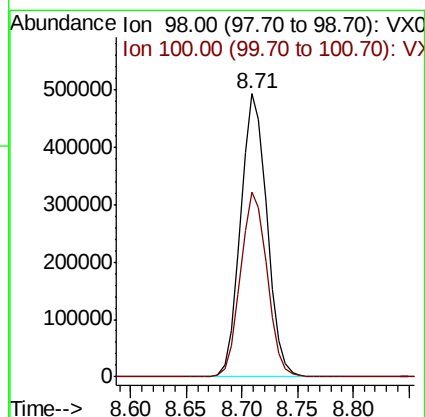
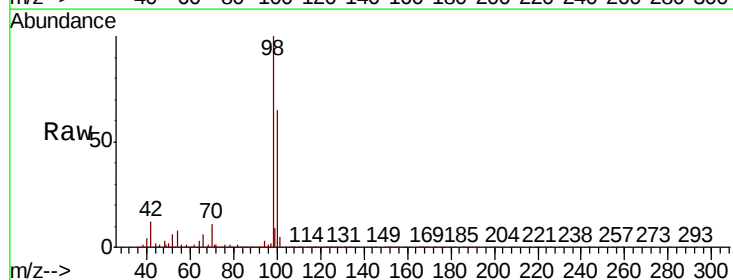
Acq: 06 Feb 2020 18:53

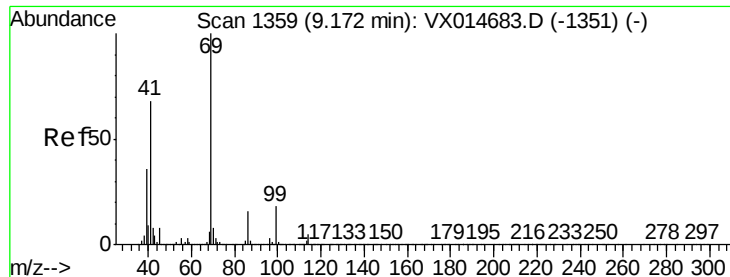
Tgt Ion: 98 Resp: 809493

Ion Ratio Lower Upper

98 100

100 66.0 53.0 79.6





#56

Ethyl methacrylate

Concen: 1.811 ug/l

RT: 9.17 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VX014857.D

Acq: 06 Feb 2020 18:53

Instrument :
MSVOA_X
ClientSampleId :

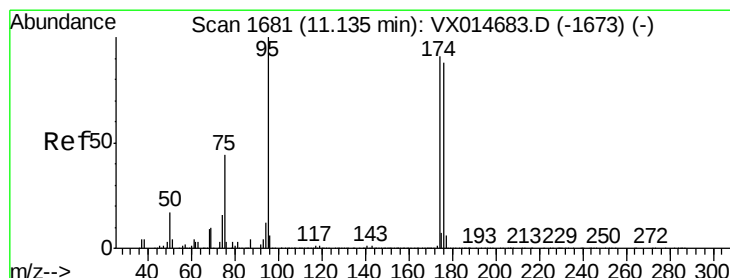
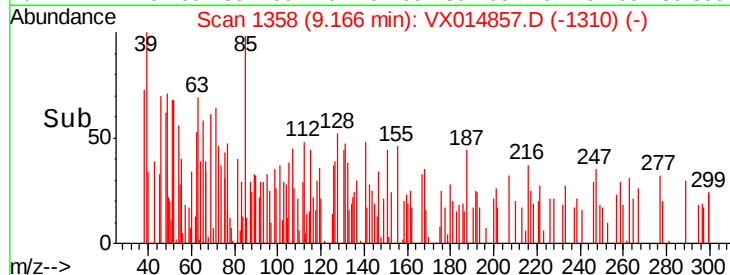
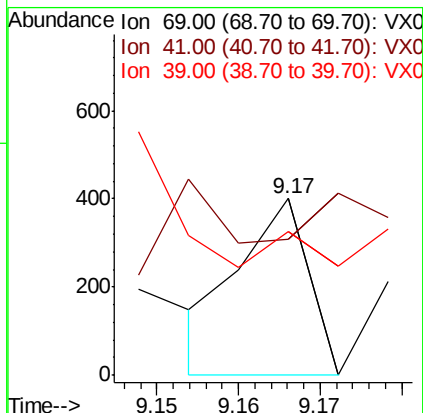
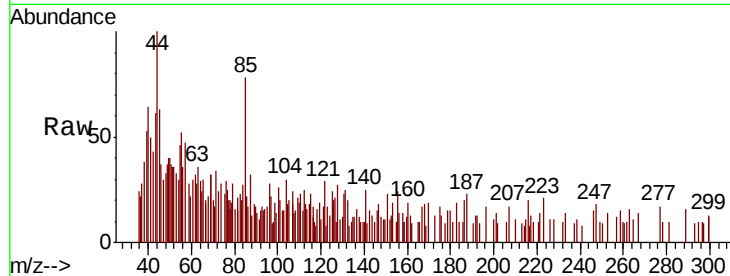
Tot Ion: 69 Resp: 234

Ion Ratio Lower Upper

69 100

41 0.0 54.9 82.3#

39 0.0 29.3 43.9#



#62

4-Bromofluorobenzene

Concen: 48.828 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014857.D

Acq: 06 Feb 2020 18:53

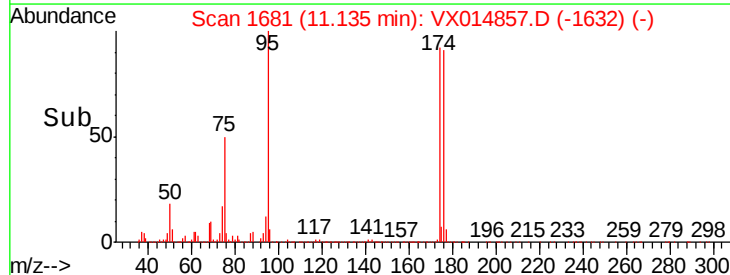
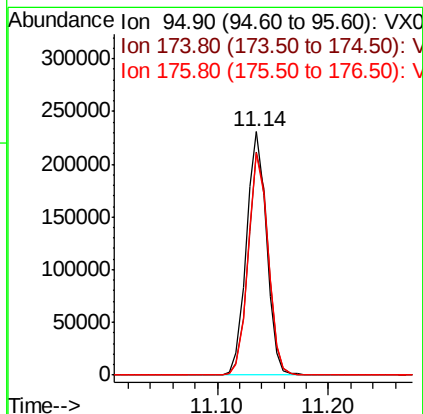
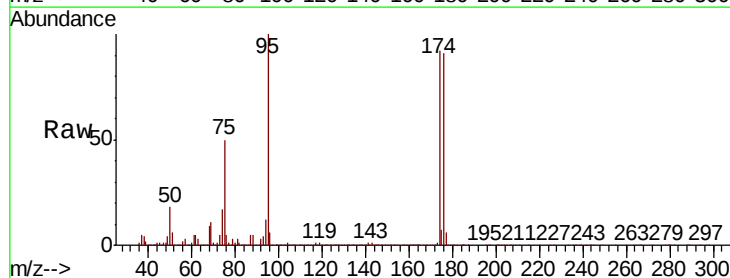
Tgt Ion: 95 Resp: 290120

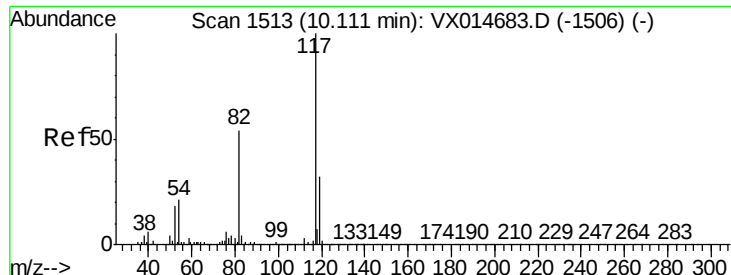
Ion Ratio Lower Upper

95 100

174 90.7 0.0 176.0

176 90.4 0.0 172.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014857.D

Acq: 06 Feb 2020 18:53

Instrument :

MSVOA_X

ClientSampled :

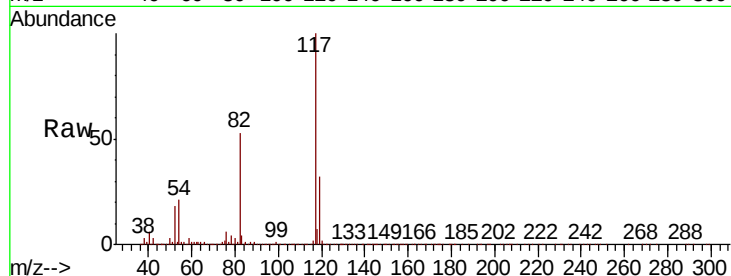
Tot Ion:117 Resp: 628017

Ion Ratio Lower Upper

117 100

82 53.3 43.2 64.8

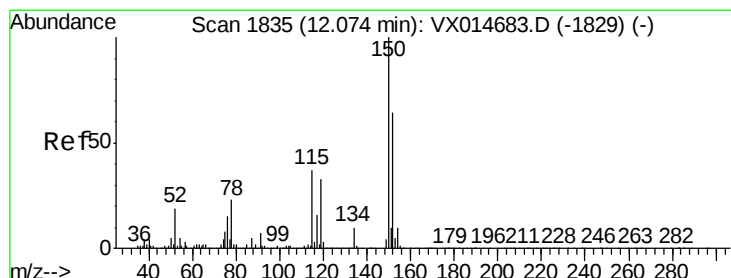
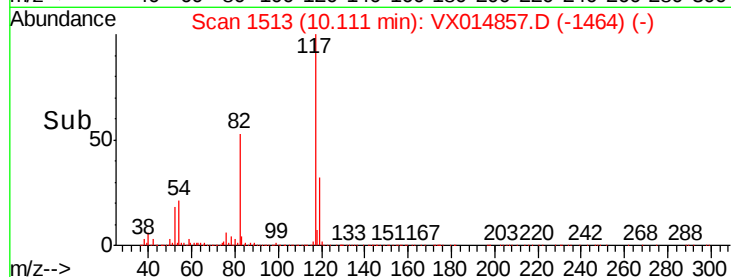
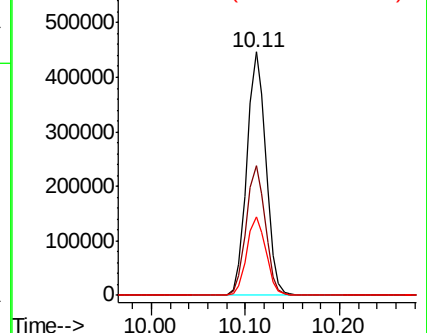
119 32.0 25.8 38.6



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: VX014857.D

Acq: 06 Feb 2020 18:53

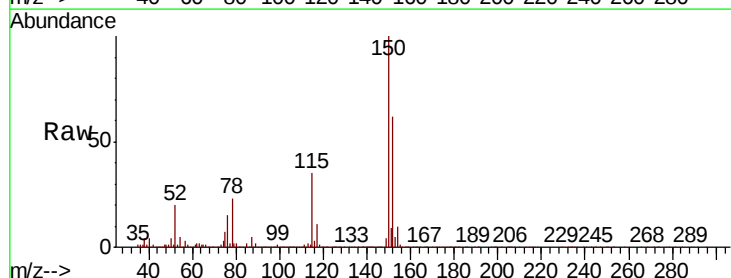
Tgt Ion:152 Resp: 312696

Ion Ratio Lower Upper

152 100

115 55.2 39.4 118.1

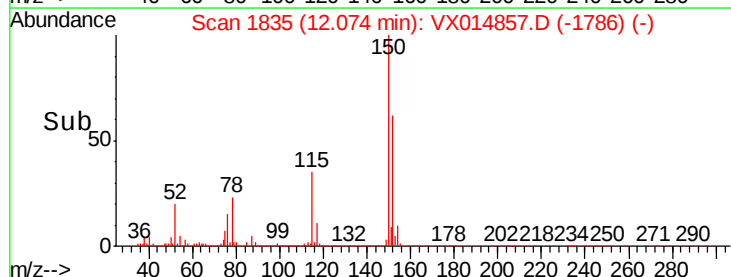
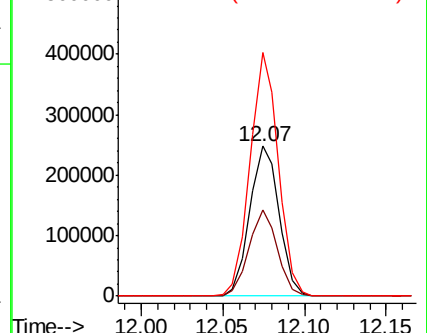
150 156.4 0.0 351.2

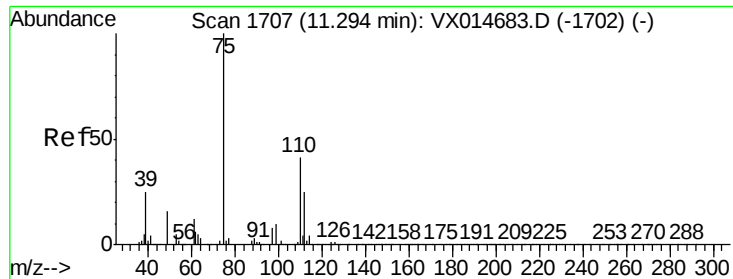


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

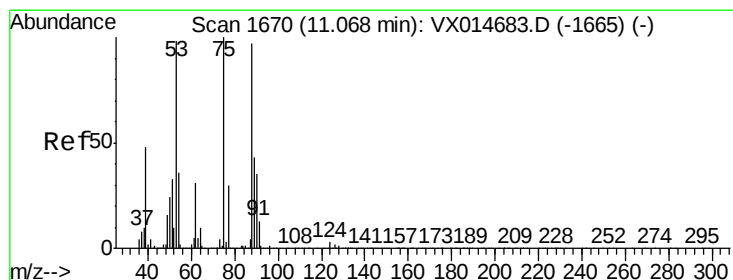
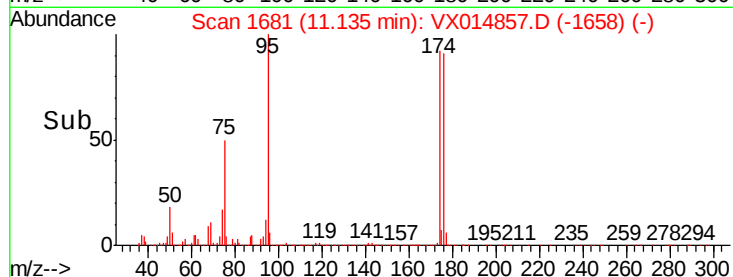
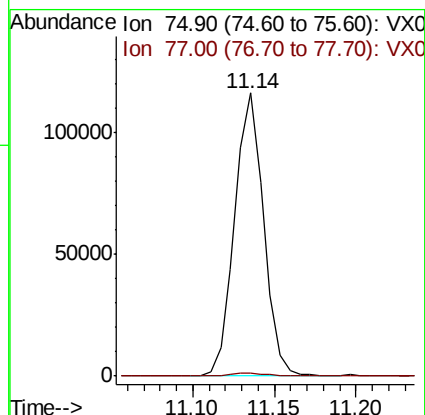
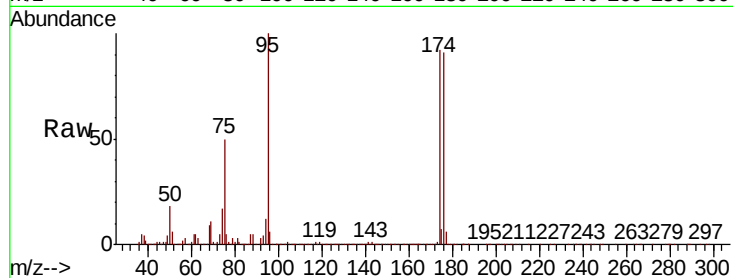




#76
 1,2,3-Trichloropropane
 Concen: 19.660 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. -0.16 min
 Lab File: VX014857.D
 Acq: 06 Feb 2020 18:53

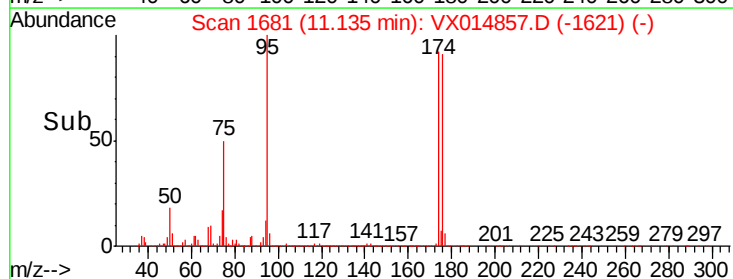
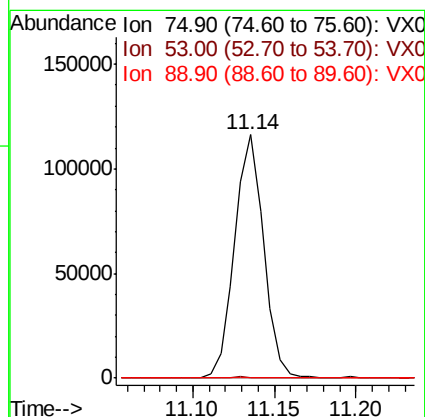
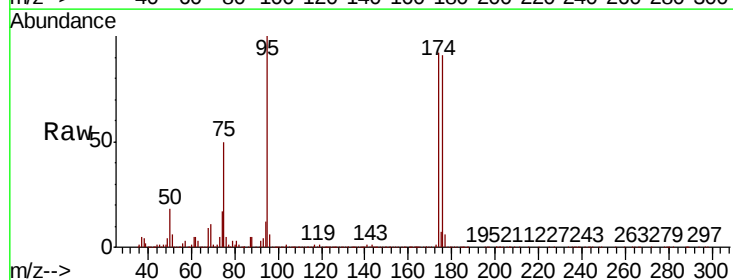
Instrument :
 MSVOA_X
 ClientSampleId :

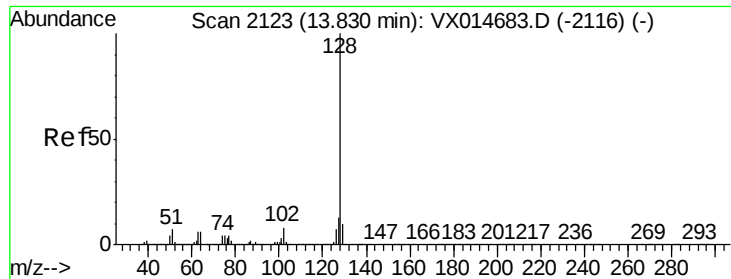
Tot Ion: 75 Resp: 143028
 Ion Ratio Lower Upper
 75 100
 77 1.3 18.7 56.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 55.949 ug/l
 RT: 11.14 min Scan# 1681
 Delta R.T. 0.07 min
 Lab File: VX014857.D
 Acq: 06 Feb 2020 18:53

Tgt Ion: 75 Resp: 143028
 Ion Ratio Lower Upper
 75 100
 53 0.3 78.8 118.2#
 89 0.1 35.4 53.0#





#95
Naphthalene
Concen: 1.093 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. 0.00 min
Lab File: VX014857.D
Acq: 06 Feb 2020 18:53

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	26.8	10.3	15.5#
129	5.7	8.6	12.8#

