

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX011720\
 Data File : VX014657.D
 Acq On : 17 Jan 2020 16:08
 Operator : JC/SP
 Sample : L1162-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 18 05:08:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	435962	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	675769	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	609821	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	259580	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	248654	51.09	ug/l	0.00
Spiked Amount			Recovery	=	102.18%	
35) Dibromofluoromethane	5.49	113	205963	50.35	ug/l	0.00
Spiked Amount			Recovery	=	100.70%	
50) Toluene-d8	8.71	98	802873	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	
62) 4-Bromofluorobenzene	11.13	95	260695	44.73	ug/l	0.00
Spiked Amount			Recovery	=	89.46%	

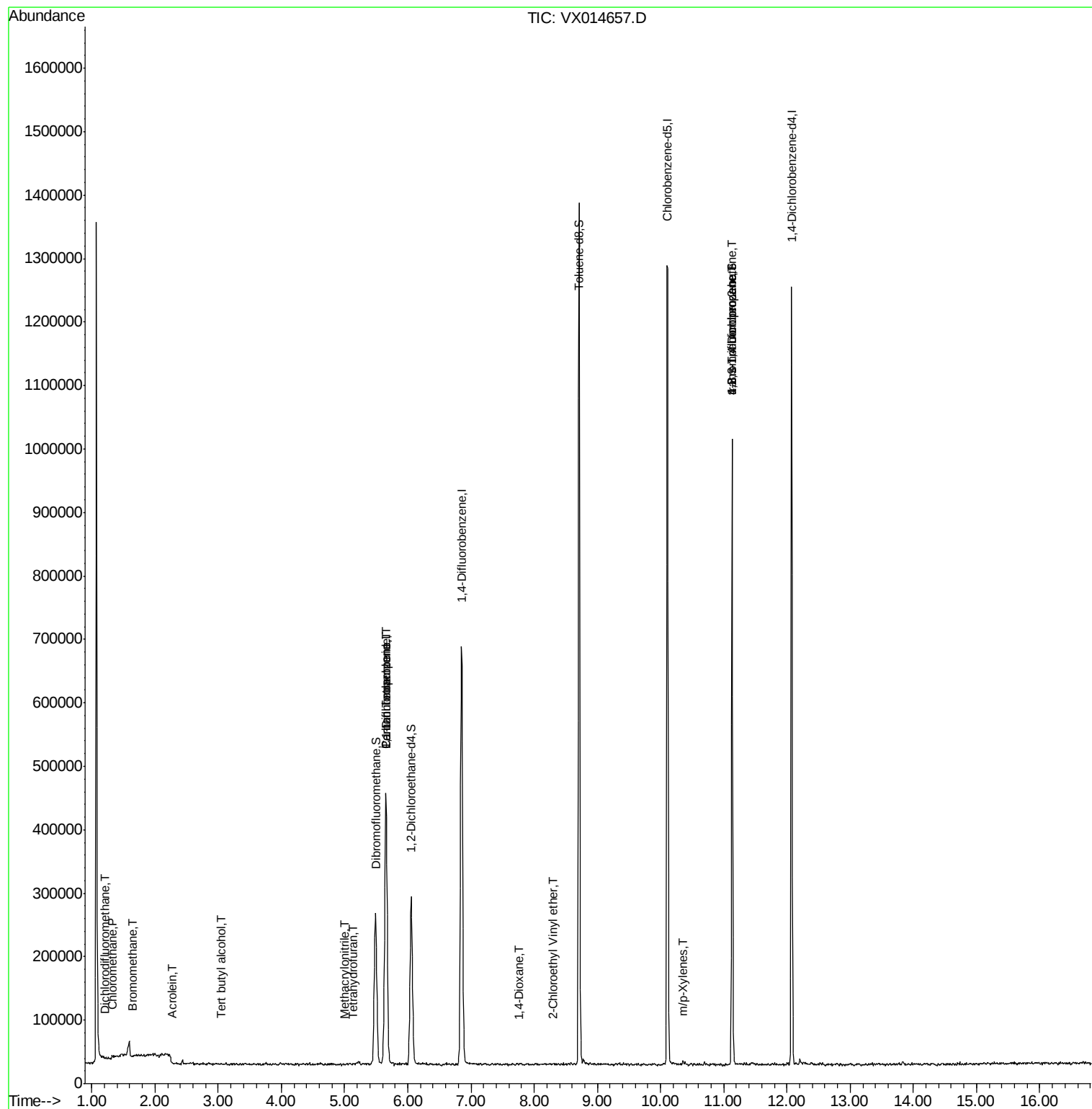
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	458	0.337	ug/l #	57
3) Chloromethane	1.32	50	1228	0.221	ug/l #	87
5) Bromomethane	1.65	94	1466	0.357	ug/l #	35
6) Chloroethane	1.73	64	554	Below Cal	#	43
11) Tert butyl alcohol	3.04	59	396	0.390	ug/l #	1
13) Acrolein	2.28	56	918	1.127	ug/l #	15
16) Acetone	2.44	43	7666	Below Cal		90
29) Tetrahydrofuran	5.12	42	511	0.238	ug/l #	63
36) 1,1-Dichloropropene	5.65	75	29984	4.718	ug/l #	50
38) Carbon Tetrachloride	5.65	117	38335	6.555	ug/l #	17
41) Methacrylonitrile	5.00	41	738	0.200	ug/l #	34
49) 1,4-Dioxane	7.75	88	971	8.580	ug/l #	55
58) 2-Chloroethyl Vinyl ether	8.30	63	518	0.205	ug/l #	45
68) m/p-Xylenes	10.36	106	2005	0.230	ug/l	77
76) 1,2,3-Trichloropropane	11.13	75	128692	23.962	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	128692	63.350	ug/l #	13
88) 1,4-Dichlorobenzene	12.07	146	755	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	13.63	180	557	Below Cal		73
96) 1,2,3-Trichlorobenzene	14.00	180	371	Below Cal	#	73

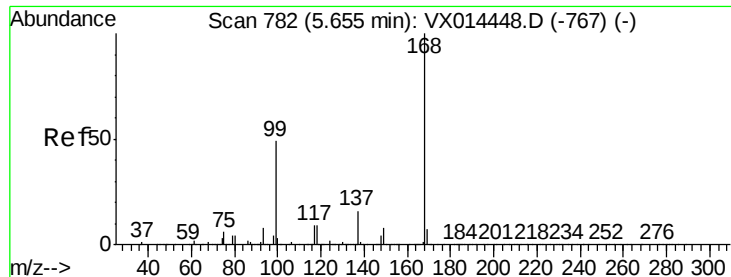
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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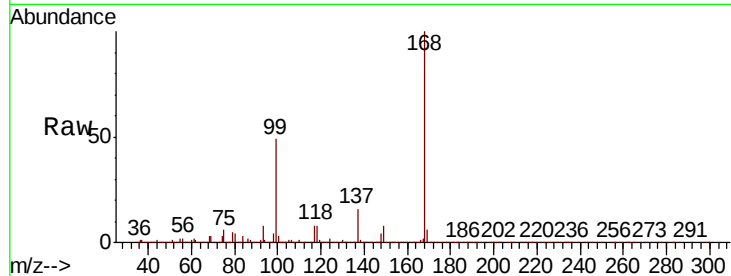


#1

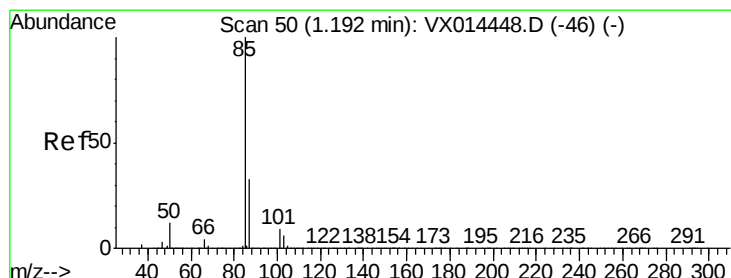
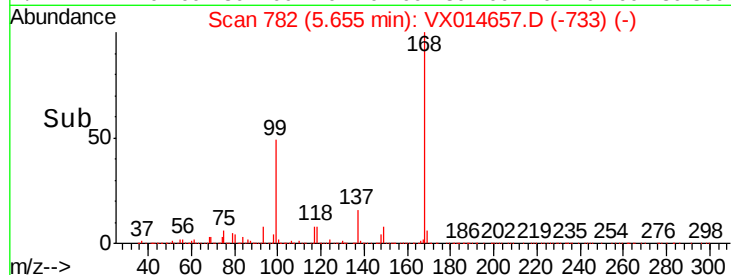
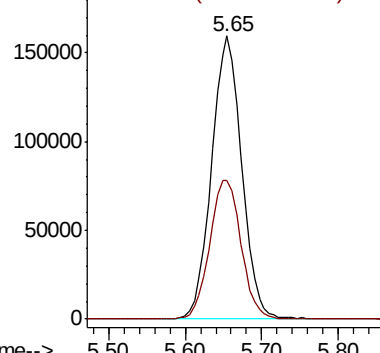
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.65 min Scan# 782
Delta R.T. 0.00 min
Lab File: VX014657.D
Acq: 17 Jan 2020 16:08

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 435962
Ion Ratio Lower Upper
168 100
99 48.9 39.2 58.8



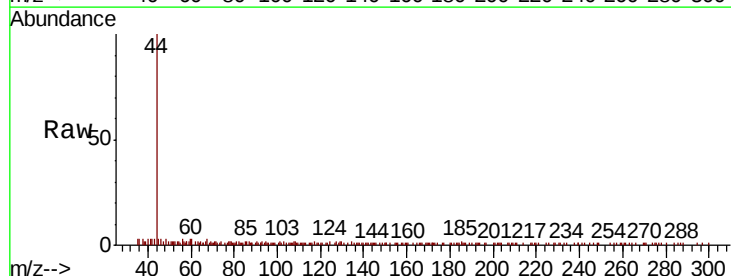
Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VX0



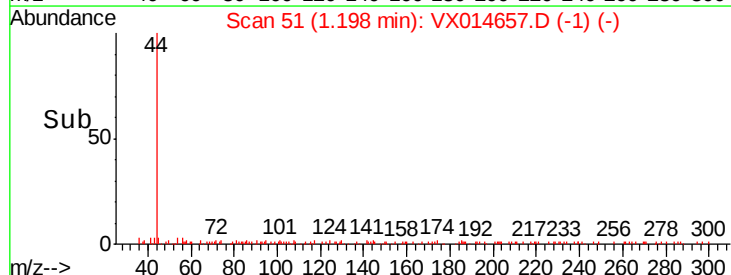
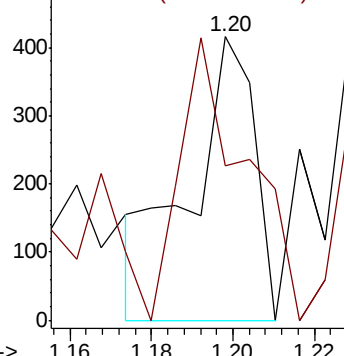
#2

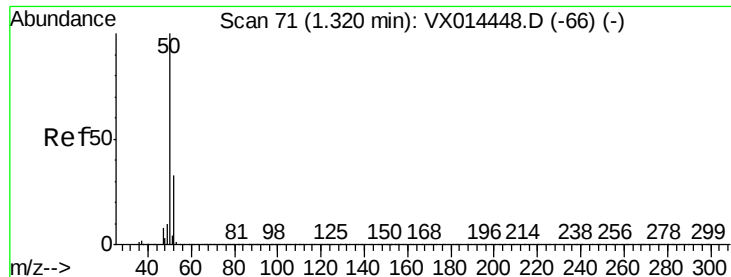
Dichlorodifluoromethane
Concen: 0.337 ug/l
RT: 1.20 min Scan# 51
Delta R.T. 0.01 min
Lab File: VX014657.D
Acq: 17 Jan 2020 16:08

Tgt Ion: 85 Resp: 458
Ion Ratio Lower Upper
85 100
87 8.4 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0
Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.221 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014657.D

Acq: 17 Jan 2020 16:08

Instrument :

MSVOA_X

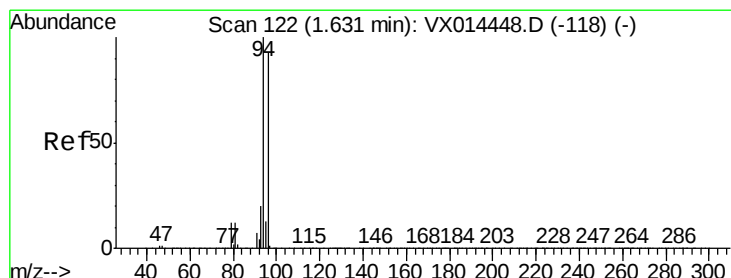
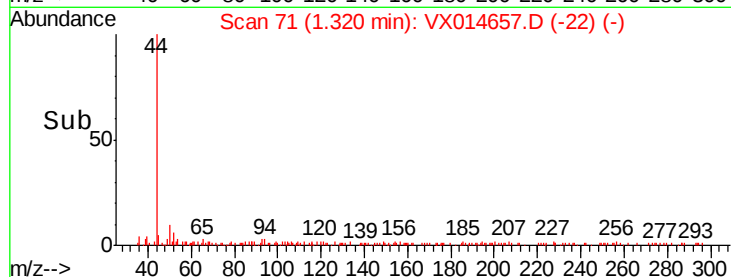
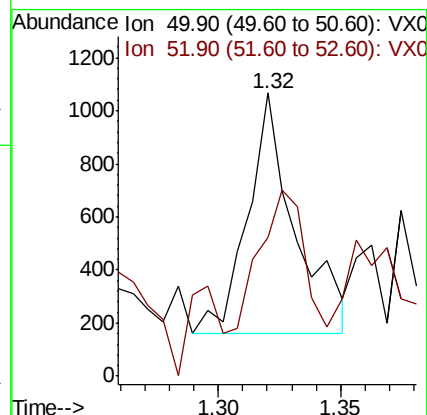
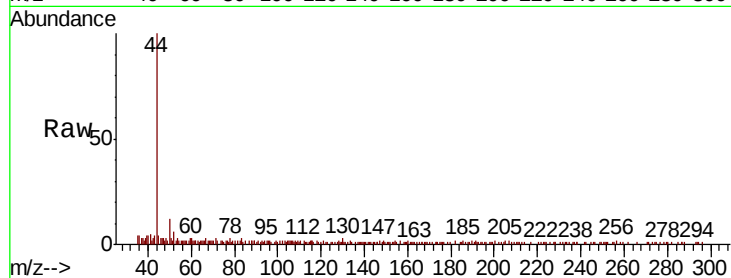
ClientSampleId :

Tot Ion: 50 Resp: 1228

Ion Ratio Lower Upper

50 100

52 25.6 26.1 39.1#



#5

Bromomethane

Concen: 0.357 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014657.D

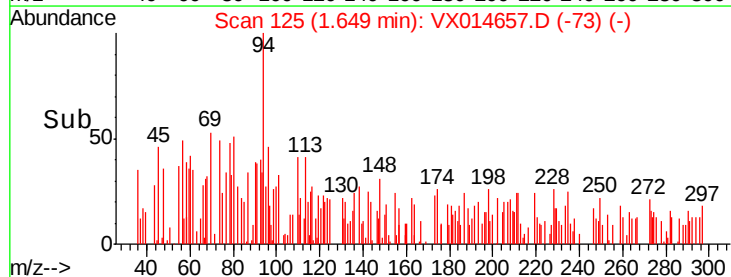
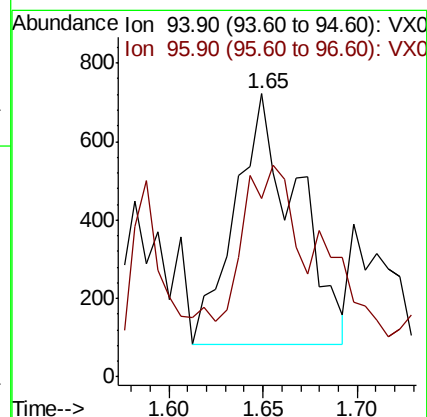
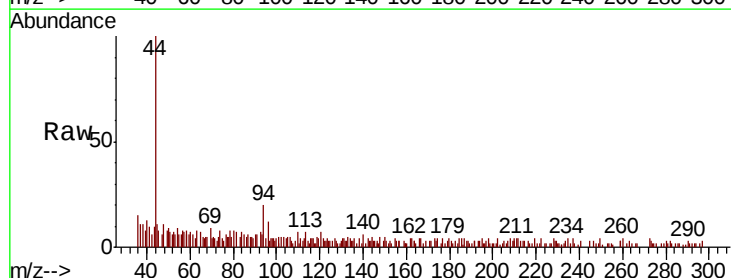
Acq: 17 Jan 2020 16:08

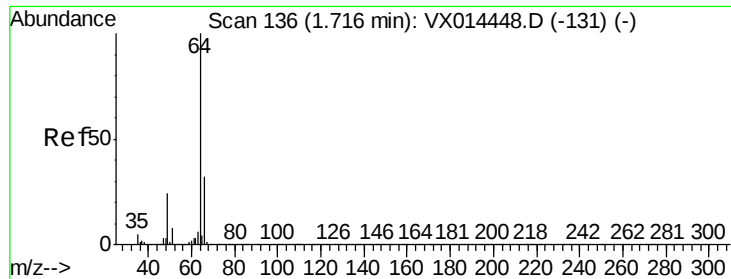
Tgt Ion: 94 Resp: 1466

Ion Ratio Lower Upper

94 100

96 30.0 74.2 111.2#





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 139

Delta R.T. 0.02 min

Lab File: VX014657.D

Acq: 17 Jan 2020 16:08

Instrument :

MSVOA_X

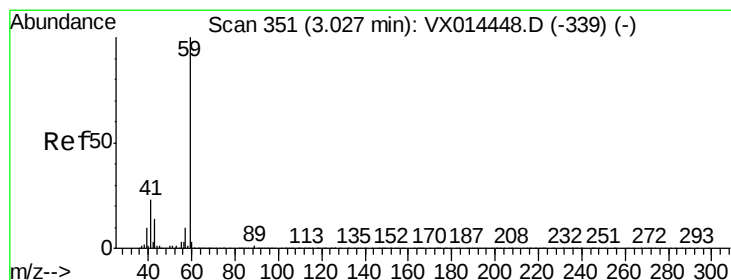
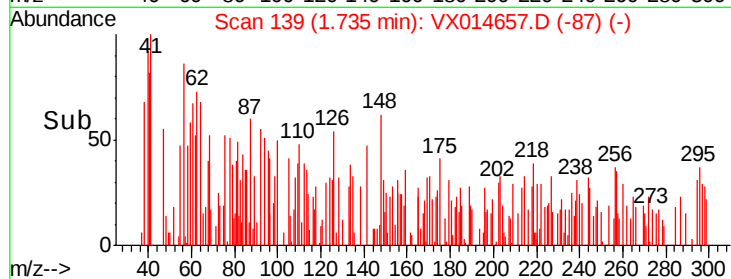
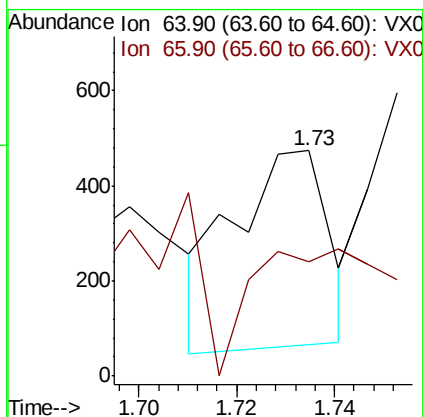
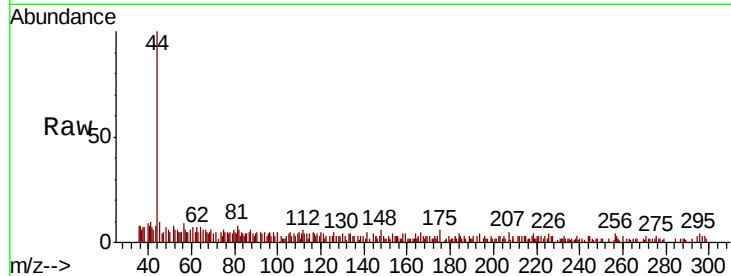
ClientSampleId :

Tot Ion: 64 Resp: 554

Ion Ratio Lower Upper

64 100

66 0.0 25.3 37.9#



#11

Tert butyl alcohol

Concen: 0.390 ug/l

RT: 3.04 min Scan# 353

Delta R.T. 0.01 min

Lab File: VX014657.D

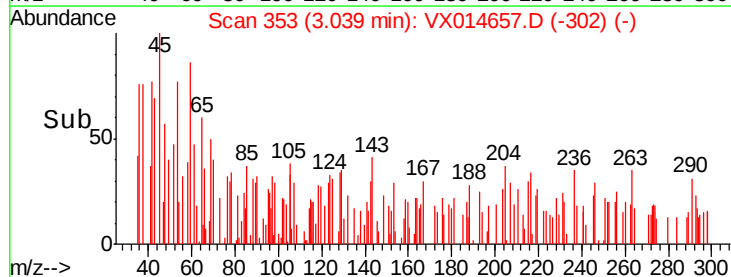
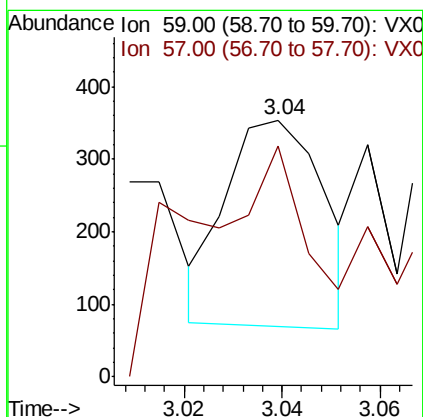
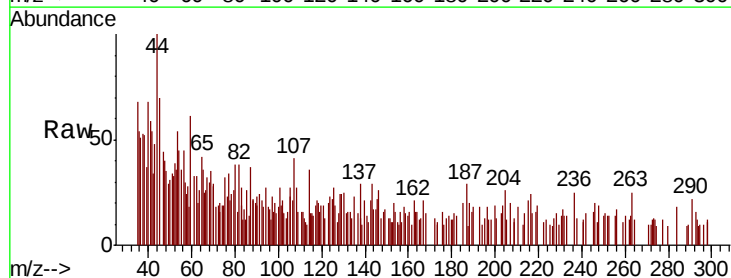
Acq: 17 Jan 2020 16:08

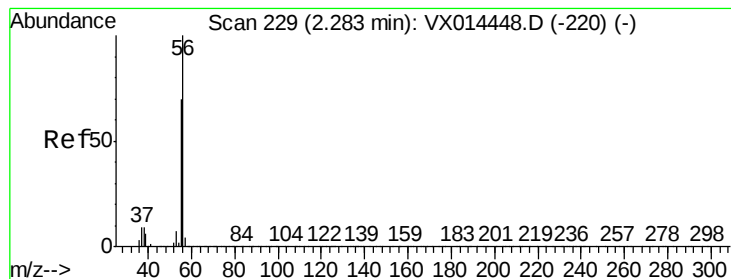
Tgt Ion: 59 Resp: 396

Ion Ratio Lower Upper

59 100

57 137.9 8.5 12.7#





#13

Acrolein

Concen: 1.127 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX014657.D

Acq: 17 Jan 2020 16:08

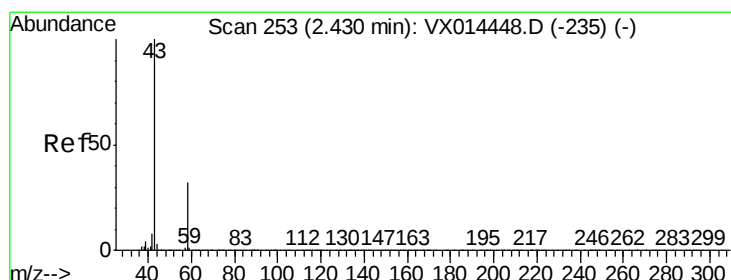
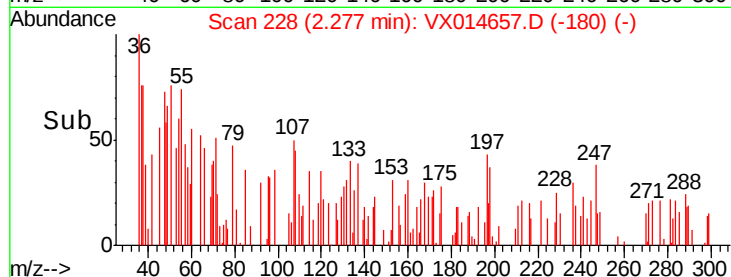
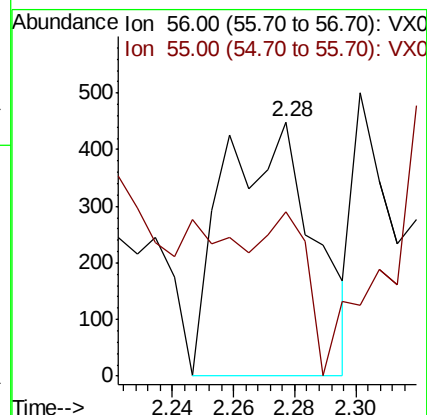
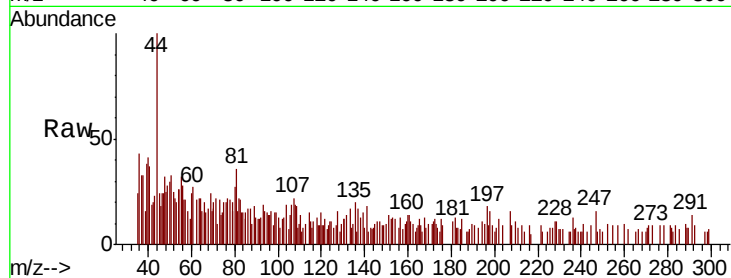
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 918

Ion Ratio Lower Upper

56 100

55 0.0 55.0 82.6#



#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX014657.D

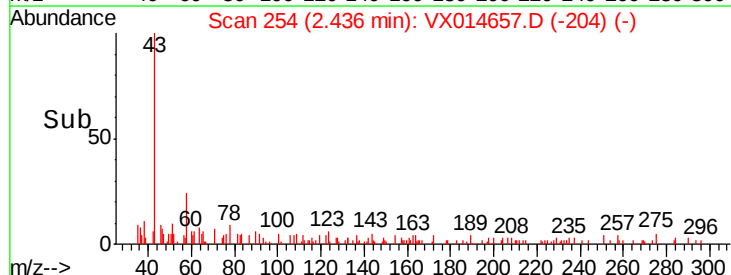
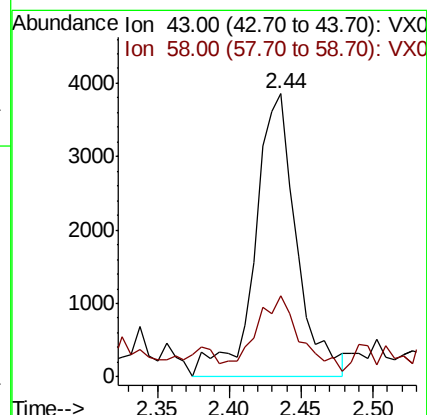
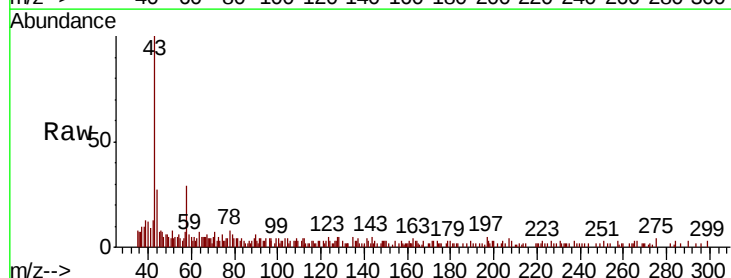
Acq: 17 Jan 2020 16:08

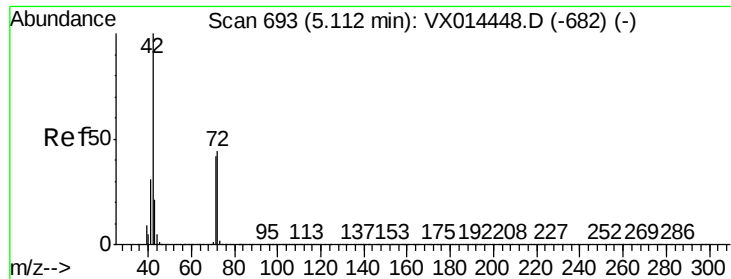
Tgt Ion: 43 Resp: 7666

Ion Ratio Lower Upper

43 100

58 26.3 25.4 38.0





#29

Tetrahydrofuran

Concen: 0.238 ug/l

RT: 5.12 min Scan# 695

Delta R.T. 0.01 min

Lab File: VX014657.D

Acq: 17 Jan 2020 16:08

Instrument :

MSVOA_X

ClientSampleId :

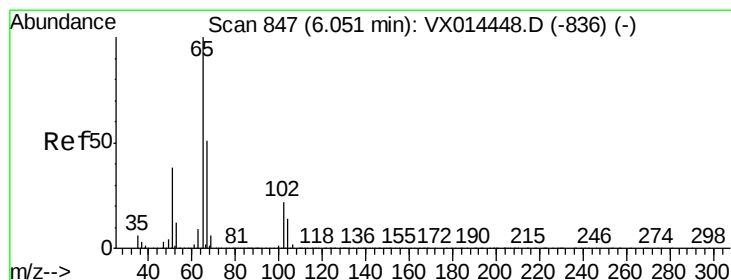
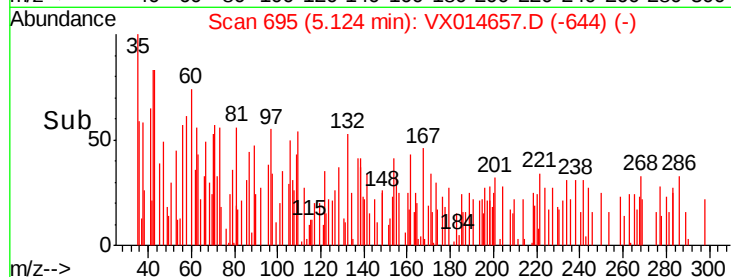
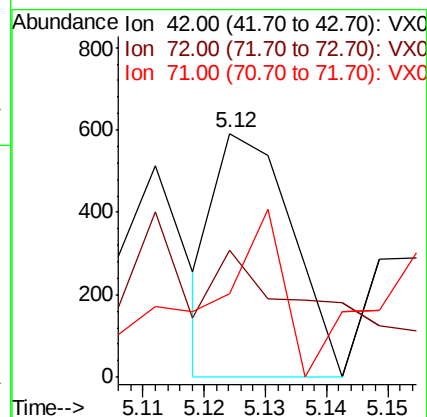
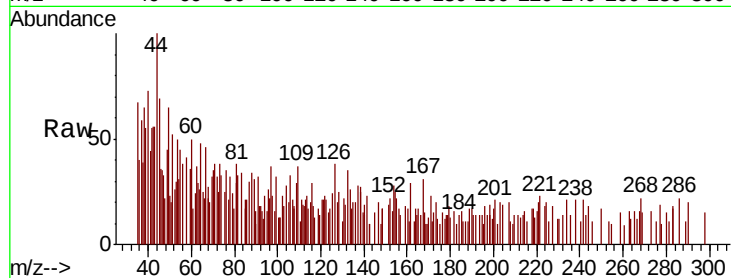
Tot Ion: 42 Resp: 511

Ion Ratio Lower Upper

42 100

72 68.7 36.2 54.4#

71 67.5 34.1 51.1#



#33

1,2-Dichloroethane-d4

Concen: 51.092 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014657.D

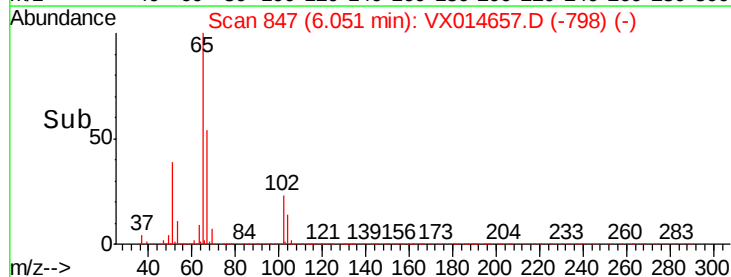
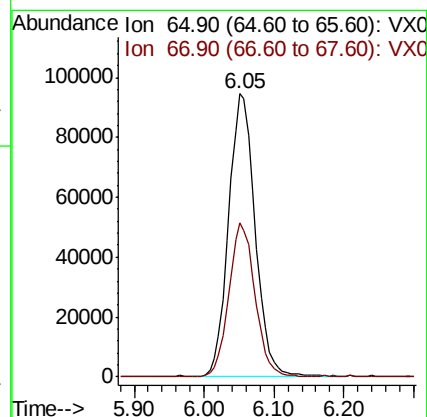
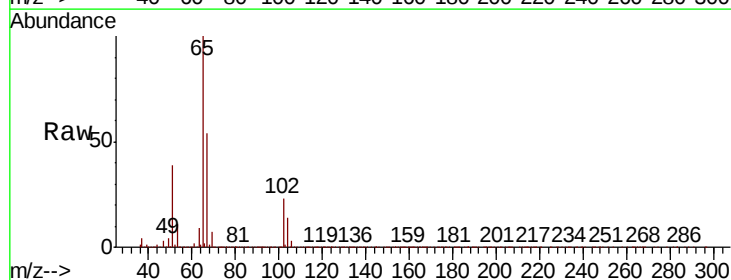
Acq: 17 Jan 2020 16:08

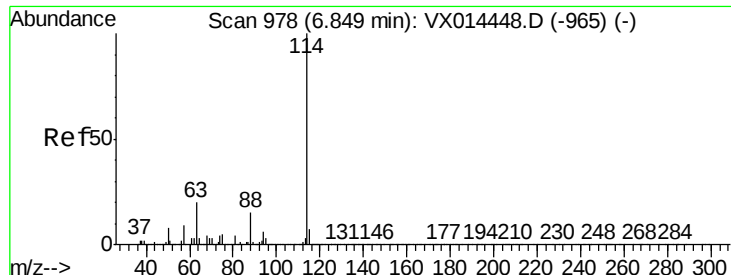
Tgt Ion: 65 Resp: 248654

Ion Ratio Lower Upper

65 100

67 52.6 0.0 106.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014657.D

Acq: 17 Jan 2020 16:08

Instrument :

MSVOA_X

ClientSampleId :

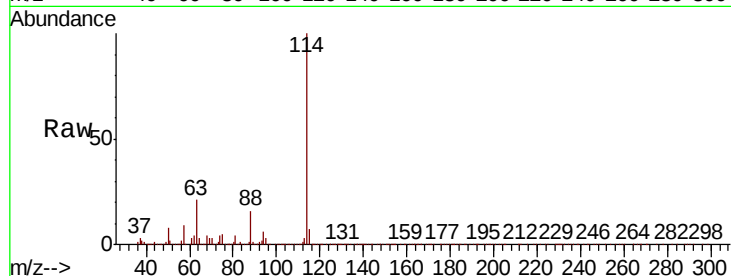
Tot Ion:114 Resp: 675769

Ion Ratio Lower Upper

114 100

63 20.9 0.0 39.6

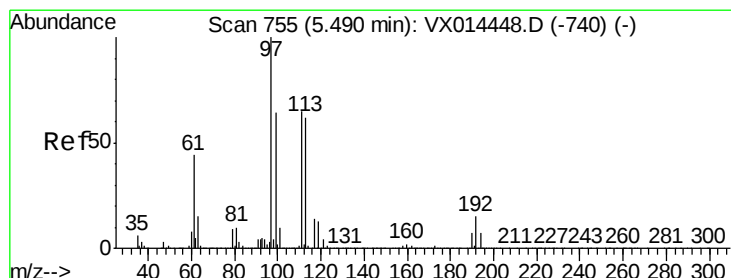
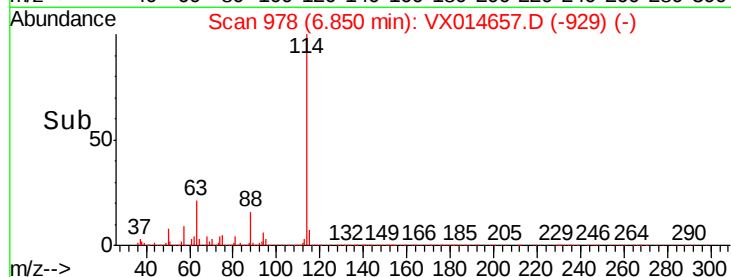
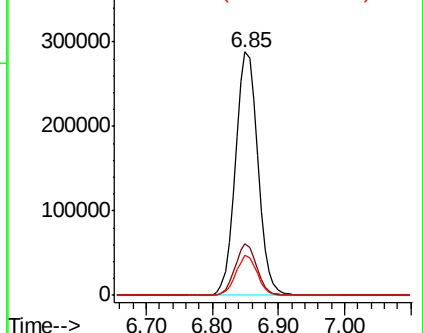
88 16.2 0.0 30.8



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



#35

Dibromofluoromethane

Concen: 50.349 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014657.D

Acq: 17 Jan 2020 16:08

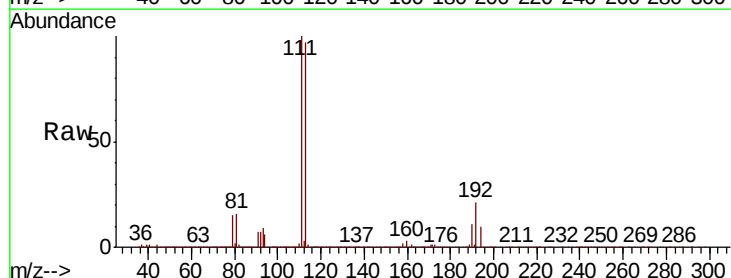
Tgt Ion:113 Resp: 205963

Ion Ratio Lower Upper

113 100

111 103.7 81.5 122.3

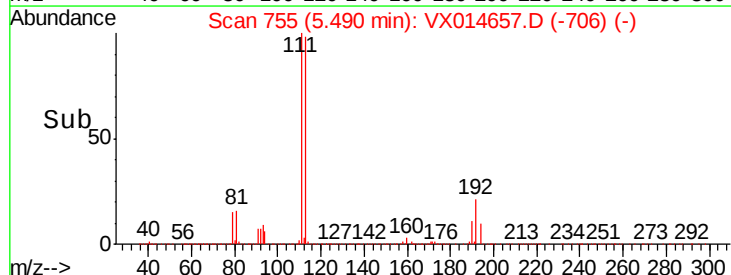
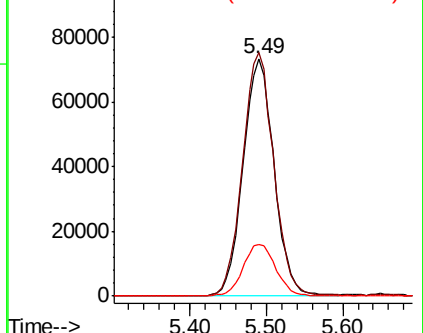
192 22.7 19.2 28.8

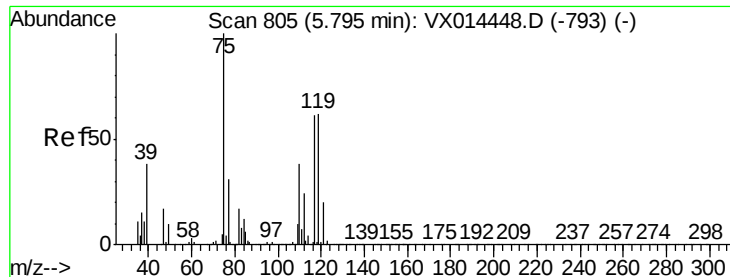


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

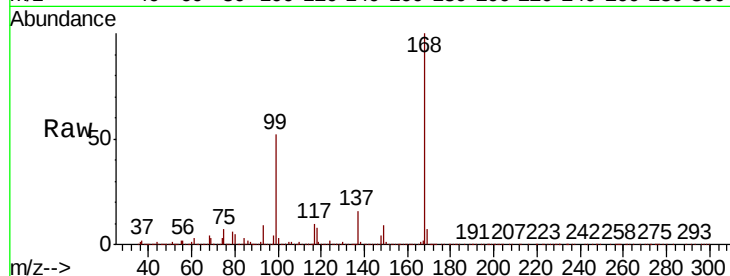




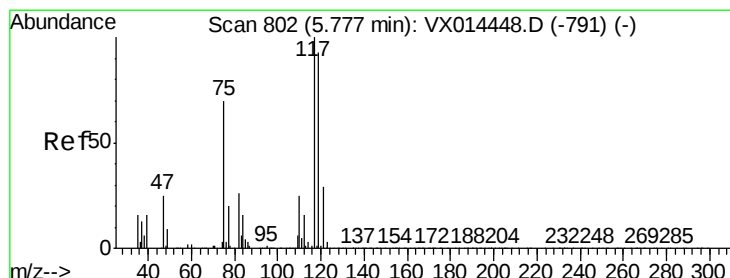
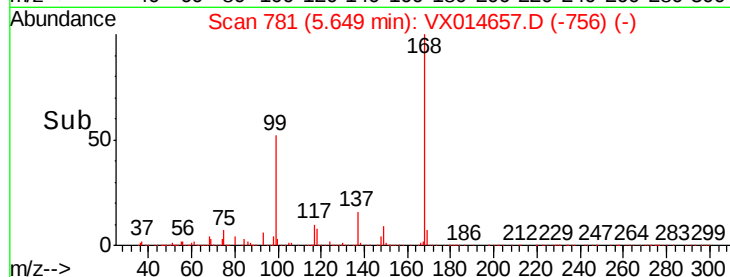
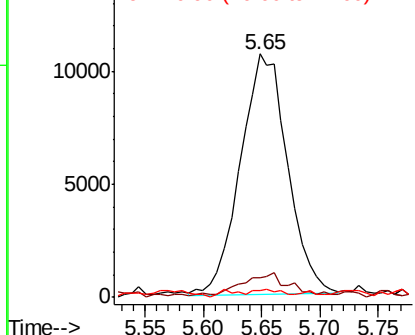
#36
 1,1-Dichloropropene
 Concen: 4.718 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX014657.D
 Acq: 17 Jan 2020 16:08

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	18.6	55.8#
77	1.3	24.5	36.7#

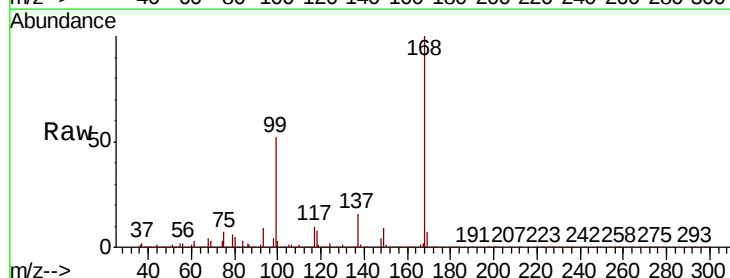


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

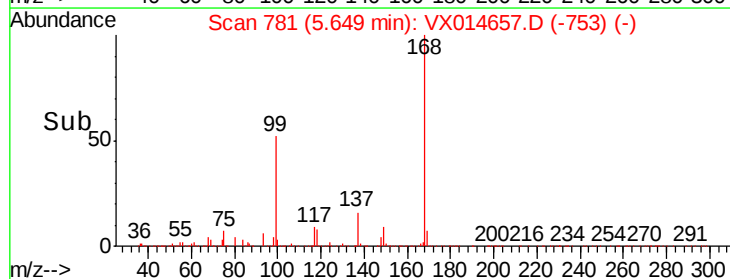
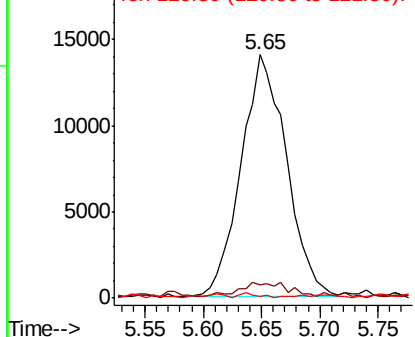


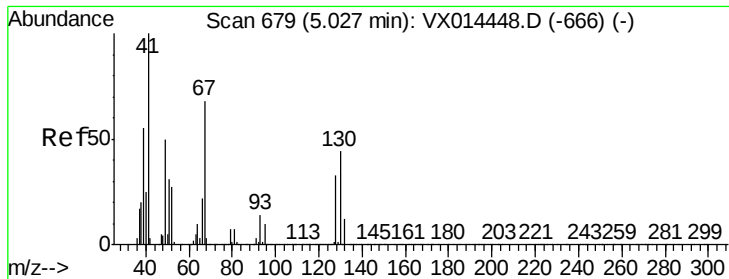
#38
 Carbon Tetrachloride
 Concen: 6.555 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014657.D
 Acq: 17 Jan 2020 16:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	73.8	110.8#
121	0.0	23.4	35.0#



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





#41

Methacrylonitrile

Concen: 0.200 ug/l

RT: 5.00 min Scan# 675

Delta R.T. -0.02 min

Lab File: VX014657.D

Acq: 17 Jan 2020 16:08

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 41 Resp: 738

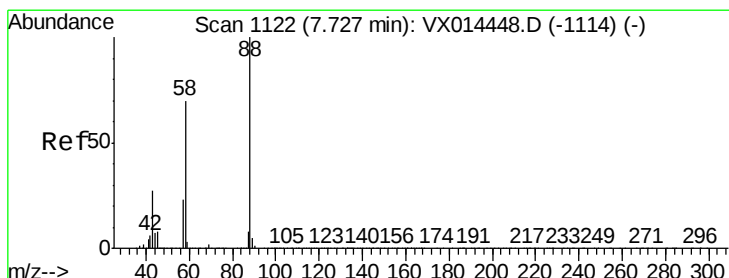
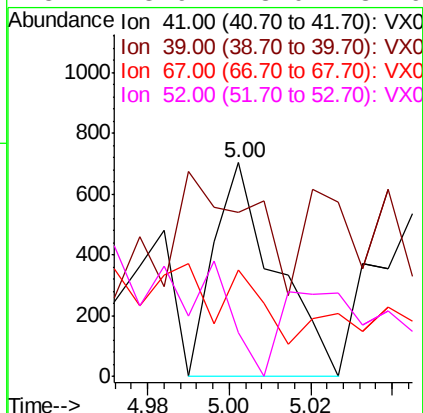
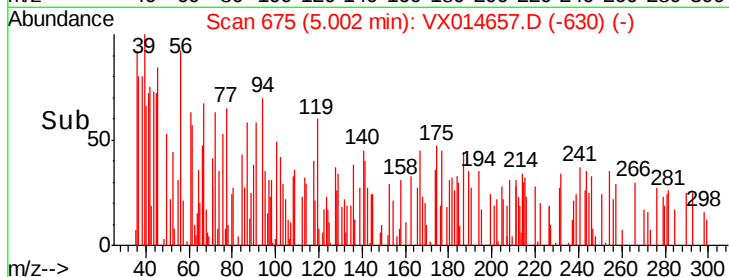
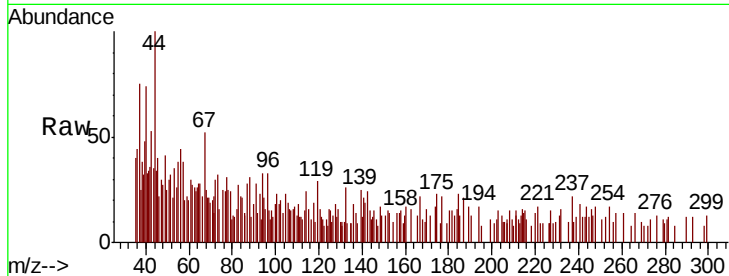
Ion Ratio Lower Upper

41 100

39 92.8 43.6 65.4#

67 0.0 57.9 86.9#

52 48.9 23.0 34.6#



#49

1,4-Dioxane

Concen: 8.580 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX014657.D

Acq: 17 Jan 2020 16:08

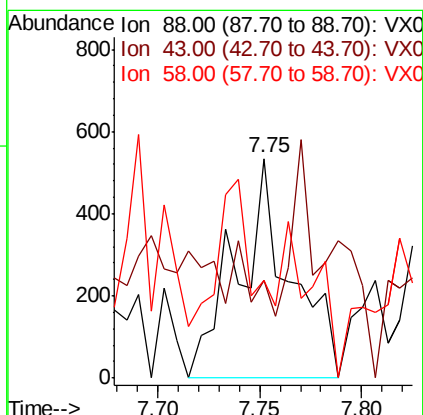
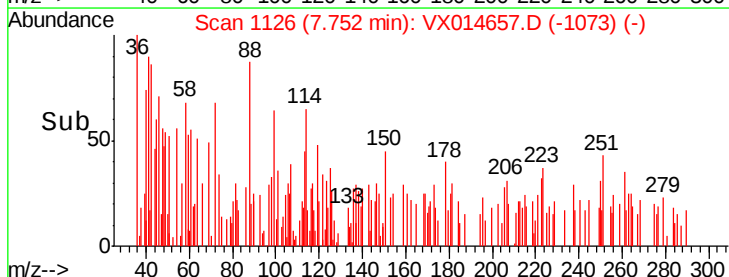
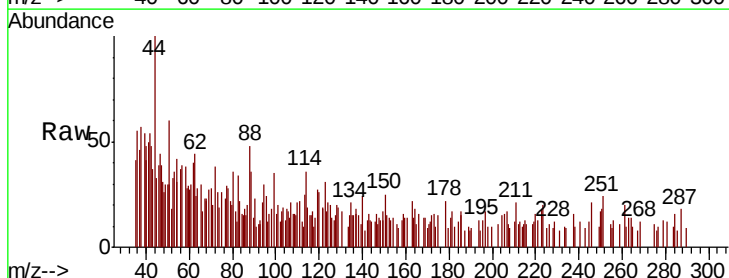
Tgt Ion: 88 Resp: 971

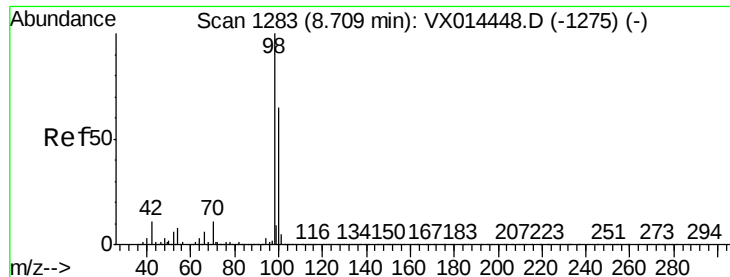
Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

58 39.8 57.1 85.7#





#50

Toluene-d8

Concen: 50.576 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014657.D

Acq: 17 Jan 2020 16:08

Instrument :

MSVOA_X

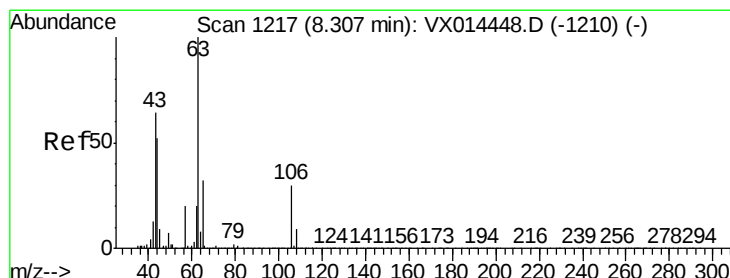
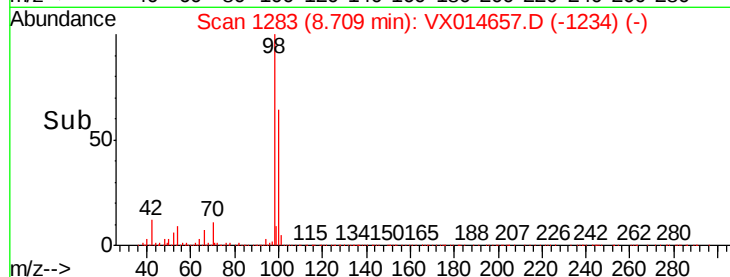
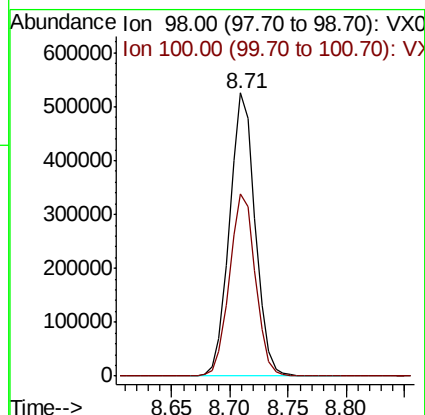
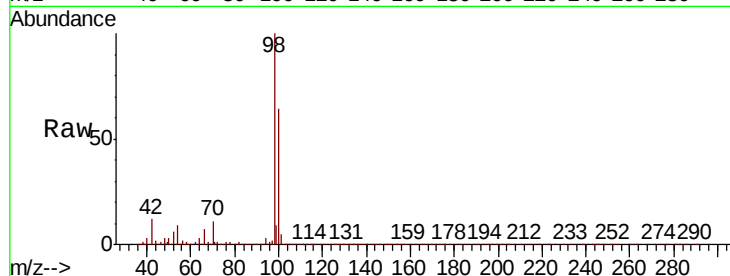
ClientSampleId :

Tot Ion: 98 Resp: 802873

Ion Ratio Lower Upper

98 100

100 65.2 53.2 79.8



#58

2-Chloroethyl Vinyl ether

Concen: 0.205 ug/l

RT: 8.30 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VX014657.D

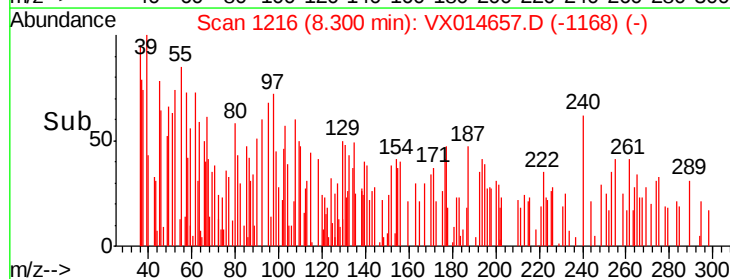
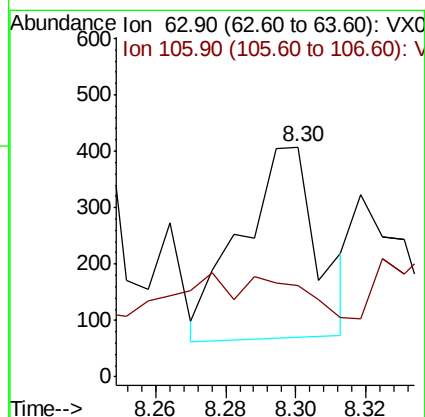
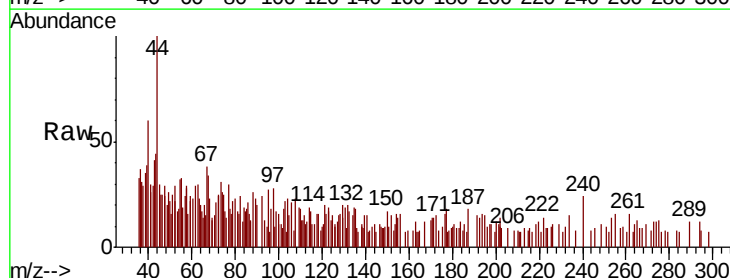
Acq: 17 Jan 2020 16:08

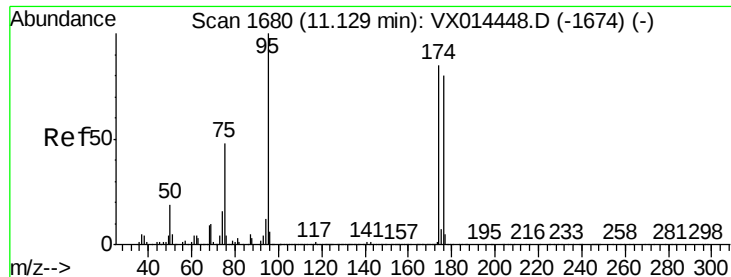
Tgt Ion: 63 Resp: 518

Ion Ratio Lower Upper

63 100

106 0.0 23.6 35.4#





#62

4-Bromofluorobenzene

Concen: 44.733 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VX014657.D

Acq: 17 Jan 2020 16:08

Instrument :

MSVOA_X

ClientSampleId :

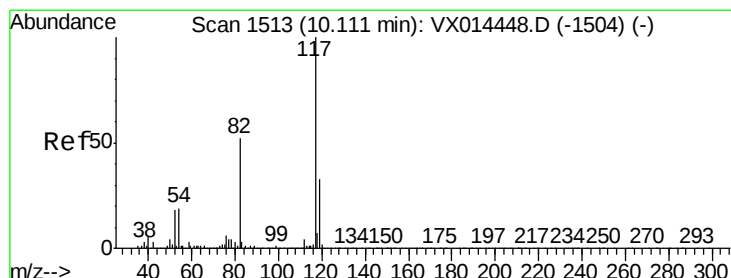
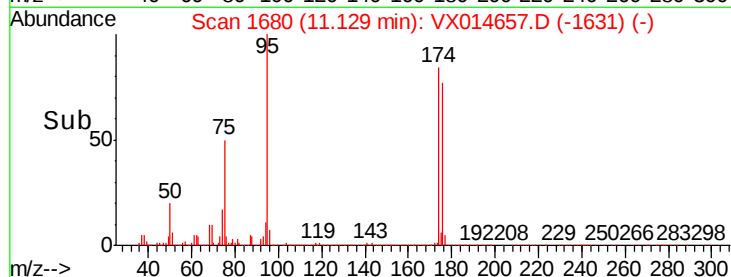
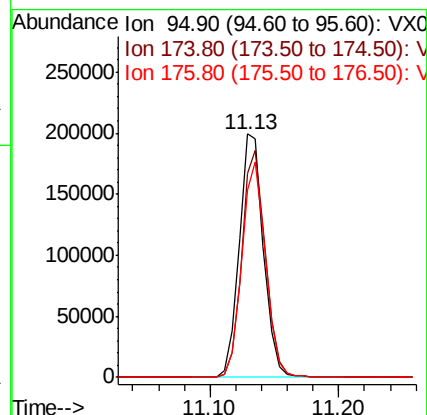
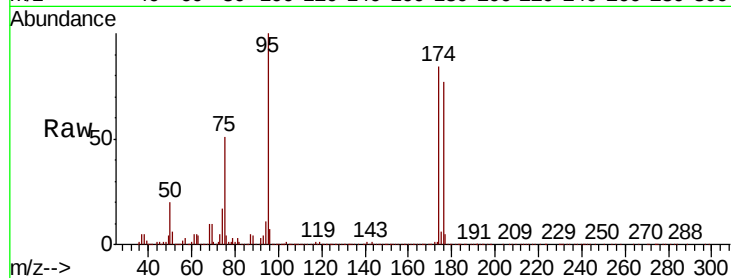
Tot Ion: 95 Resp: 260695

Ion Ratio Lower Upper

95 100

174 90.7 0.0 180.8

176 86.6 0.0 172.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX014657.D

Acq: 17 Jan 2020 16:08

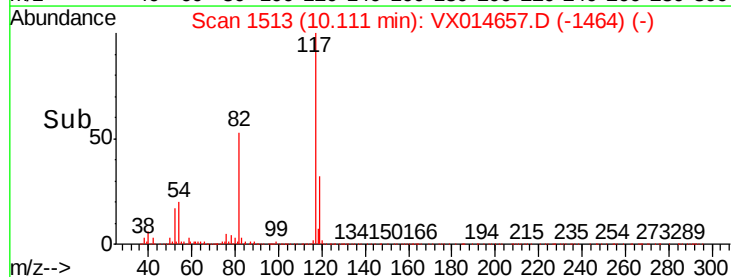
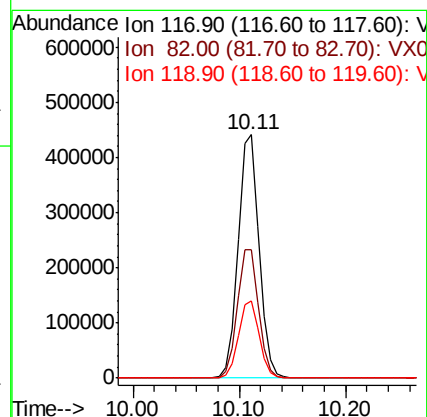
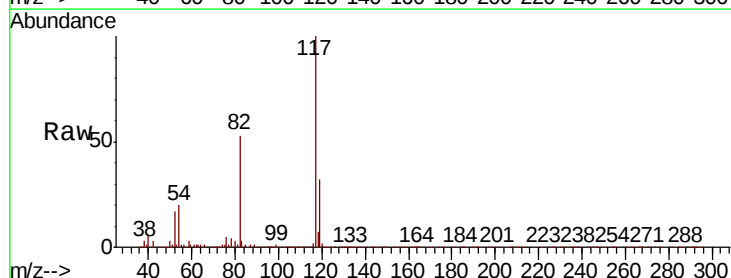
Tgt Ion: 117 Resp: 609821

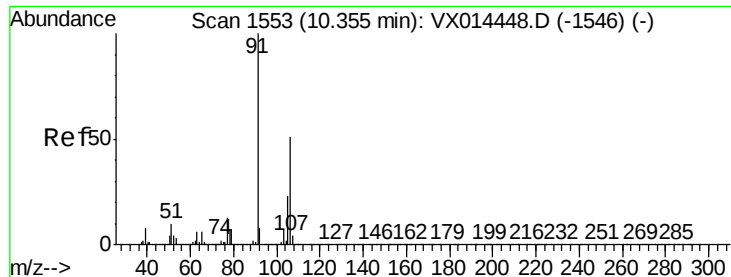
Ion Ratio Lower Upper

117 100

82 52.5 41.8 62.6

119 31.5 26.2 39.4





#68

m/p-Xvlenes

Concen: 0.230 ug/l

RT: 10.36 min Scan# 1553

Delta R.T. 0.00 min

Lab File: VX014657.D

Acq: 17 Jan 2020 16:08

Instrument :

MSVOA_X

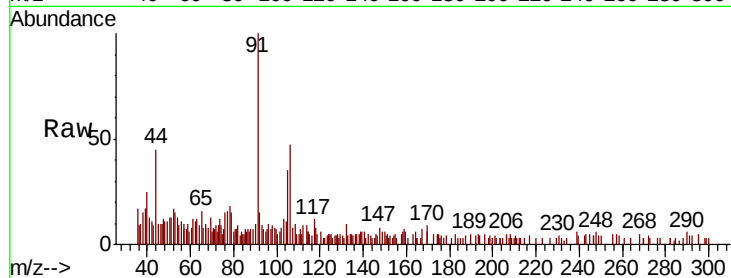
ClientSampleId :

Tot Ion:106 Resp: 2005

Ion Ratio Lower Upper

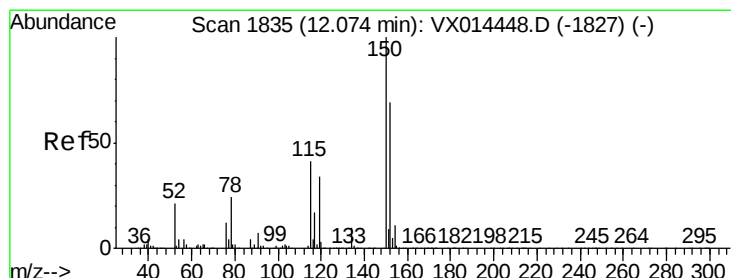
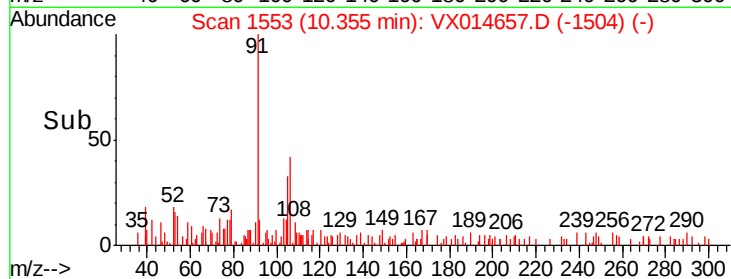
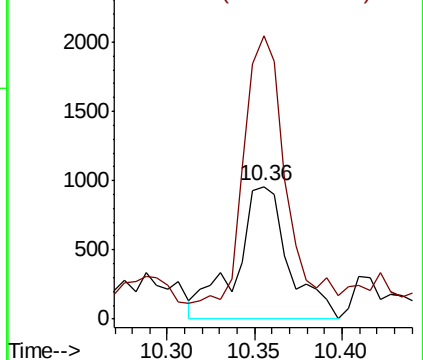
106 100

91 162.8 157.4 236.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014657.D

Acq: 17 Jan 2020 16:08

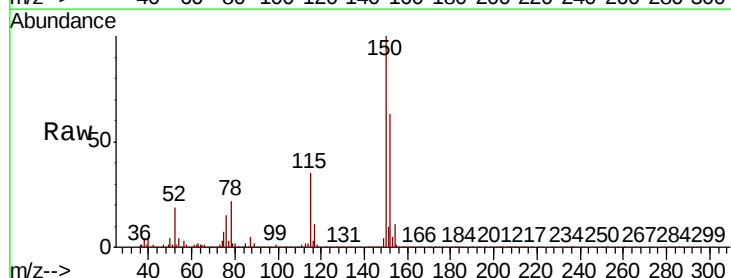
Tgt Ion:152 Resp: 259580

Ion Ratio Lower Upper

152 100

115 56.5 39.5 118.3

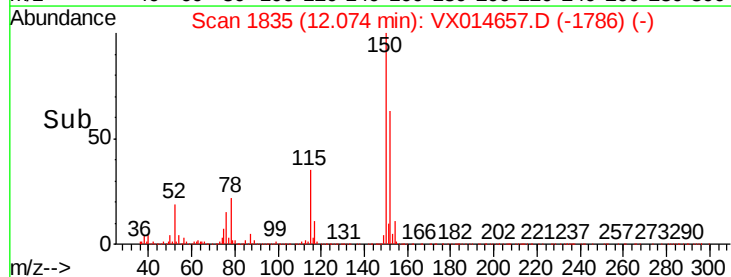
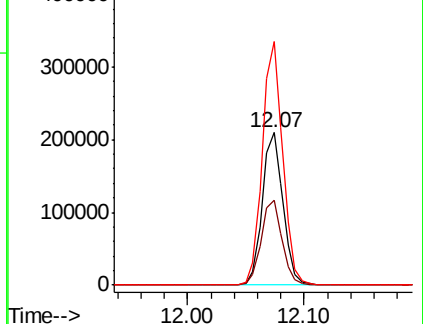
150 157.4 0.0 350.2

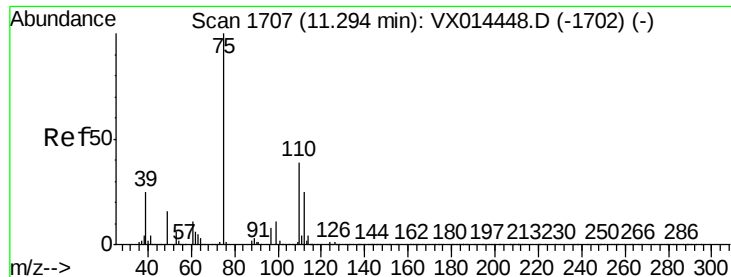


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.962 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014657.D

Acq: 17 Jan 2020 16:08

Instrument :

MSVOA_X

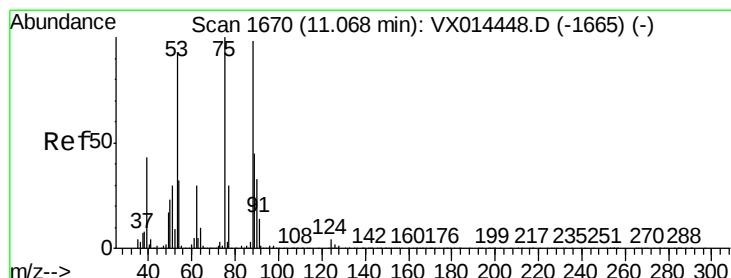
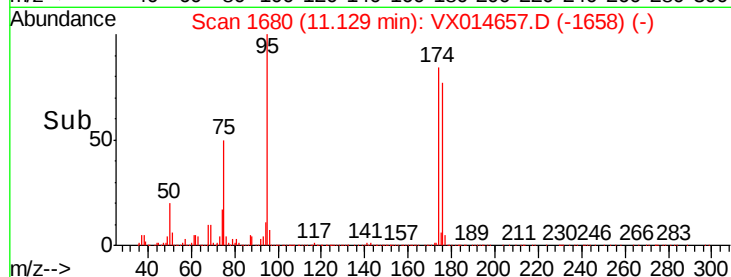
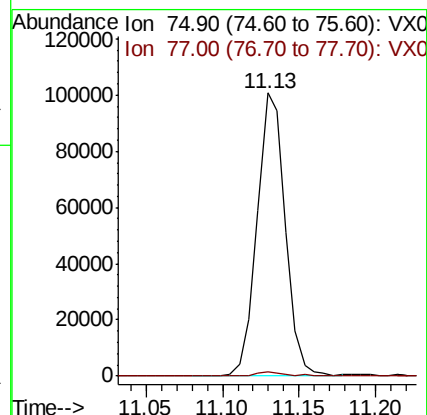
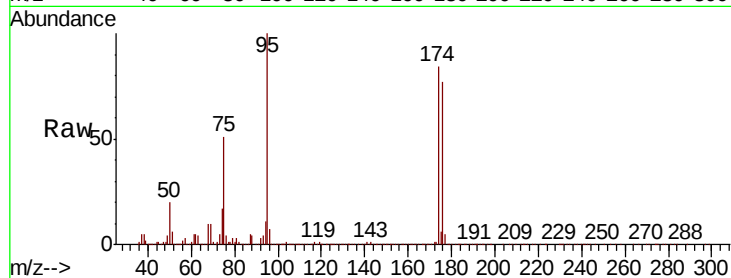
ClientSampleId :

Tot Ion: 75 Resp: 128692

Ion Ratio Lower Upper

75 100

77 1.8 21.9 65.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.350 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014657.D

Acq: 17 Jan 2020 16:08

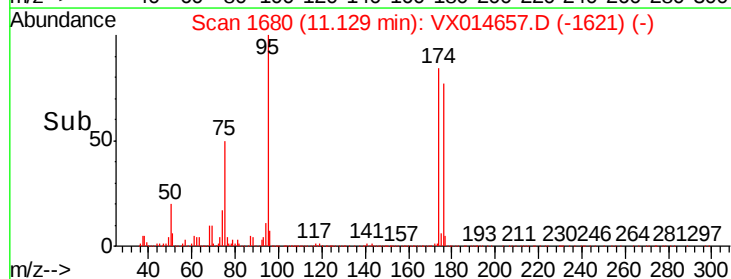
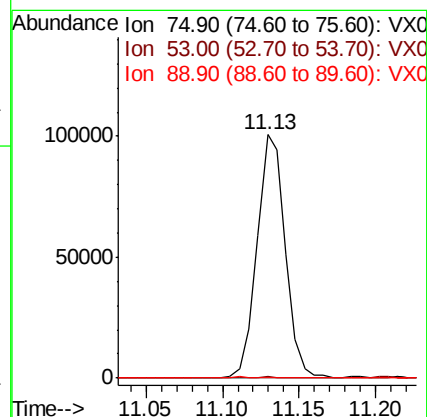
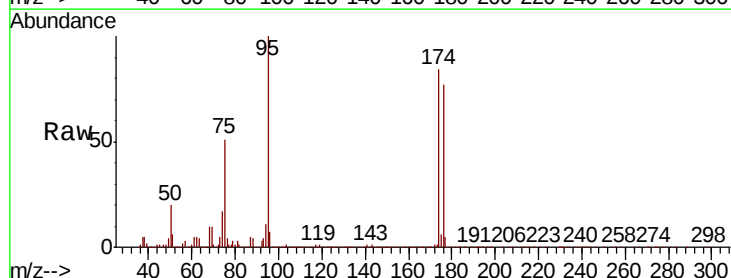
Tgt Ion: 75 Resp: 128692

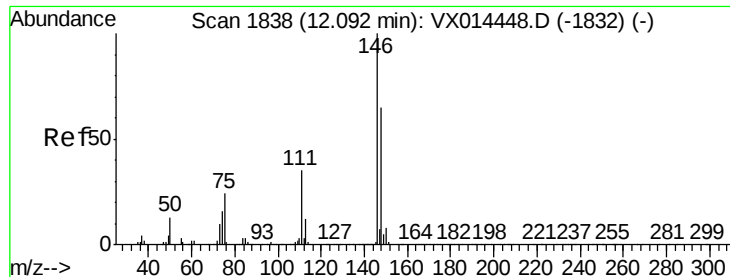
Ion Ratio Lower Upper

75 100

53 0.6 74.8 112.2#

89 0.2 36.3 54.5#





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.07 min Scan# 1835

Delta R.T. -0.02 min

Lab File: VX014657.D

Acq: 17 Jan 2020 16:08

Instrument :

MSVOA_X

ClientSampleId :

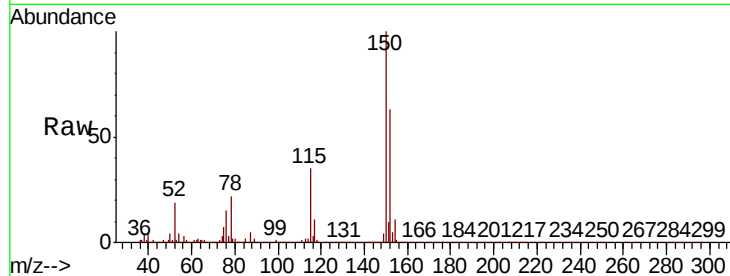
Tot Ion:146 Resp: 755

Ion Ratio Lower Upper

146 100

111 453.1 18.1 54.1#

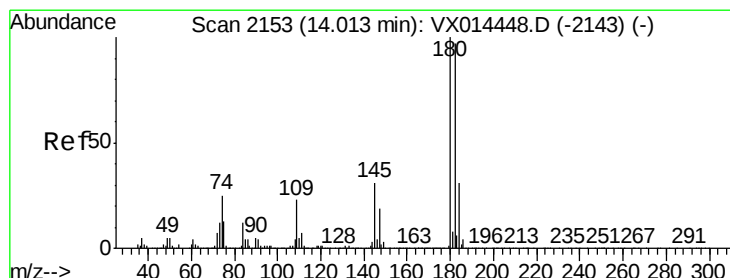
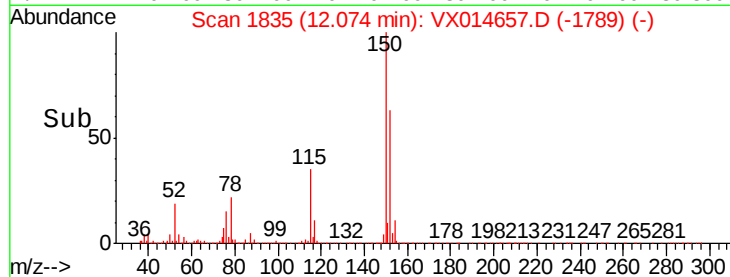
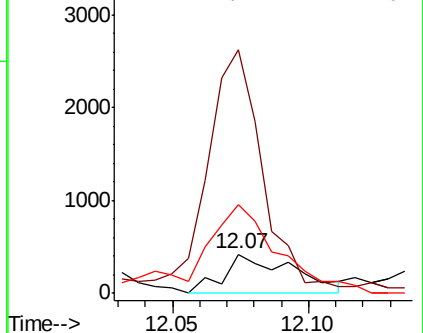
148 240.4 32.1 96.3#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#96

1,2,3-Trichlorobenzene

Concen: Below Cal

RT: 14.00 min Scan# 2151

Delta R.T. -0.01 min

Lab File: VX014657.D

Acq: 17 Jan 2020 16:08

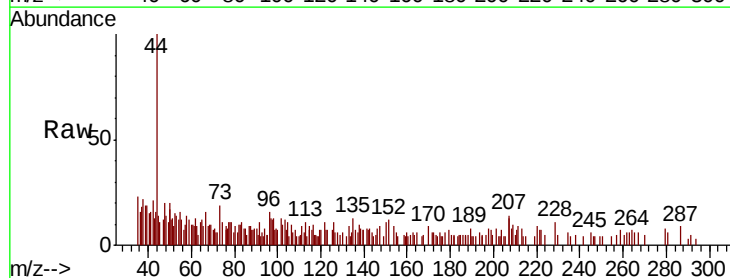
Tgt Ion:180 Resp: 371

Ion Ratio Lower Upper

180 100

182 114.0 47.9 143.6

145 0.0 14.8 44.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

