

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX123019\
 Data File : VX014363.D
 Acq On : 30 Dec 2019 18:53
 Operator : JC/SP
 Sample : K6464-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 31 01:21:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	501087	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	786790	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	705317	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	313582	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	285380	50.25	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.50%	
35) Dibromofluoromethane	5.50	113	236535	49.46	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.92%	
50) Toluene-d8	8.71	98	937444	50.34	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.68%	
62) 4-Bromofluorobenzene	11.13	95	316540	46.50	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	93.00%	

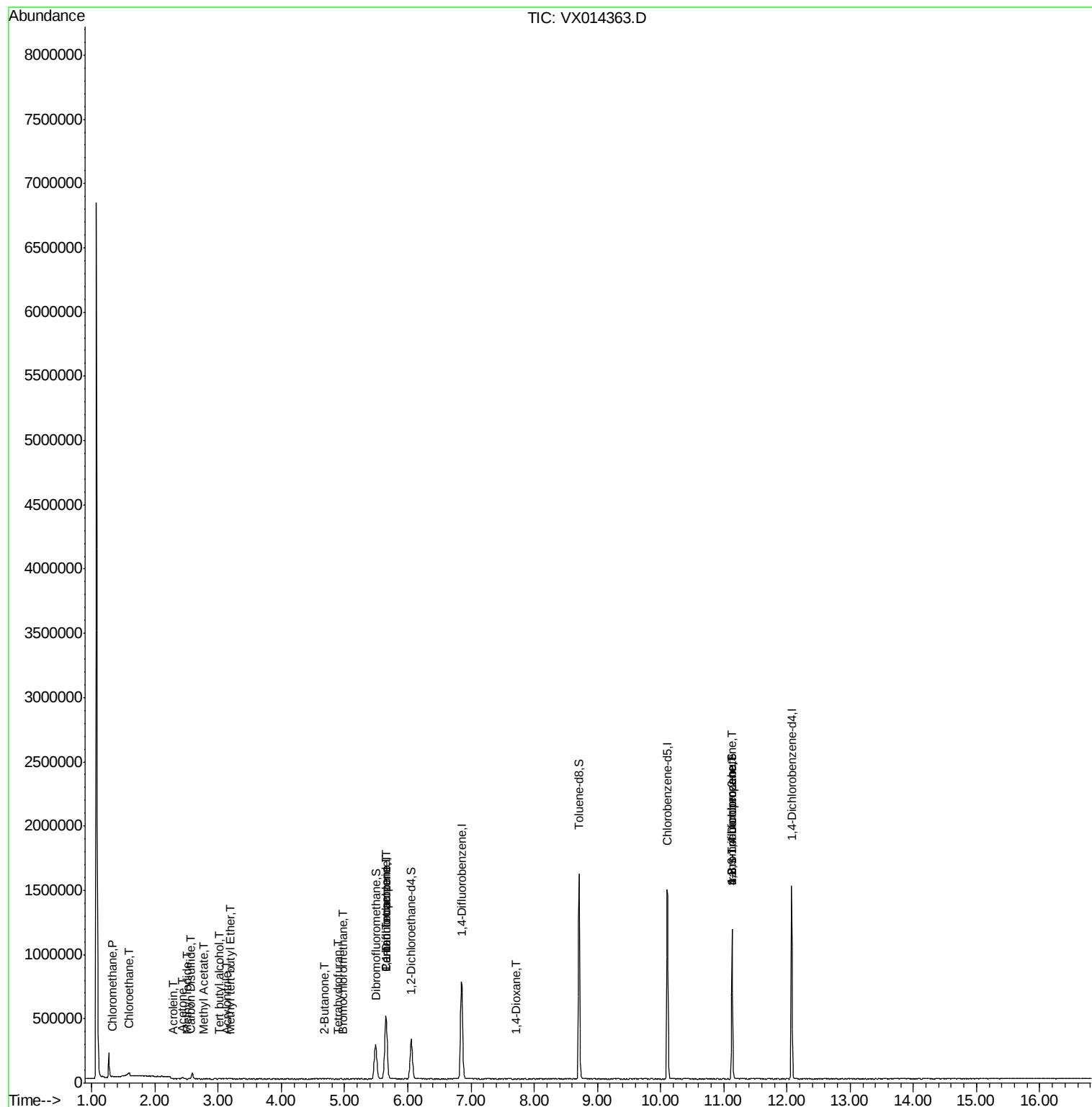
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	4202	0.698	ug/l	100
6) Chloroethane	1.58	64	39367	10.048	ug/l #	45
10) Methyl Iodide	2.50	142	326	2.670	ug/l #	1
11) Tert butyl alcohol	3.01	59	2693	2.195	ug/l	97
13) Acrolein	2.30	56	370	0.527	ug/l #	51
15) Acrylonitrile	3.14	53	594	0.207	ug/l #	19
16) Acetone	2.44	43	16619	4.507	ug/l	97
17) Carbon Disulfide	2.56	76	2691	0.948	ug/l #	52
18) Methyl Acetate	2.76	43	1937	0.265	ug/l #	87
19) Methyl tert-butyl Ether	3.19	73	4881	0.308	ug/l #	80
25) 2-Butanone	4.67	43	1496	0.329	ug/l #	58
28) Bromochloromethane	4.98	49	614	0.620	ug/l #	10
29) Tetrahydrofuran	4.90	42	692	0.272	ug/l	97
36) 1,1-Dichloropropene	5.65	75	35334	4.894	ug/l #	51
38) Carbon Tetrachloride	5.65	117	44360	6.745	ug/l #	18
49) 1,4-Dioxane	7.72	88	172	1.308	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	152403	22.386	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	152403	63.186	ug/l #	12

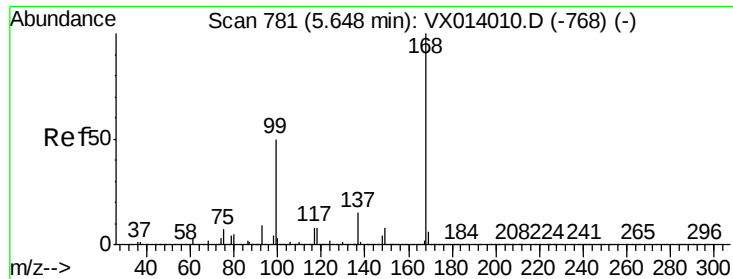
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014363.D

Acq: 30 Dec 2019 18:53

Instrument :

MSVOA_X

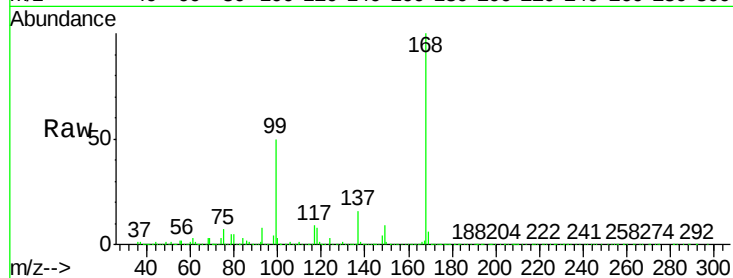
ClientSampleId :

Tot Ion:168 Resp: 501087

Ion Ratio Lower Upper

168 100

99 49.9 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

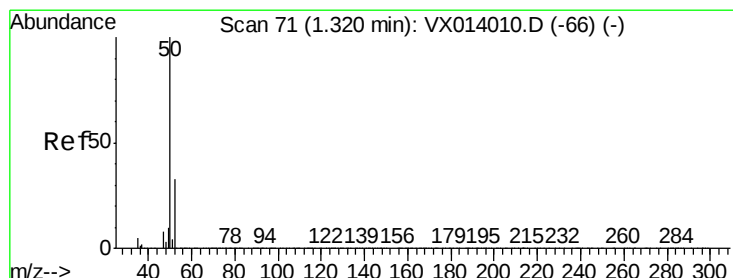
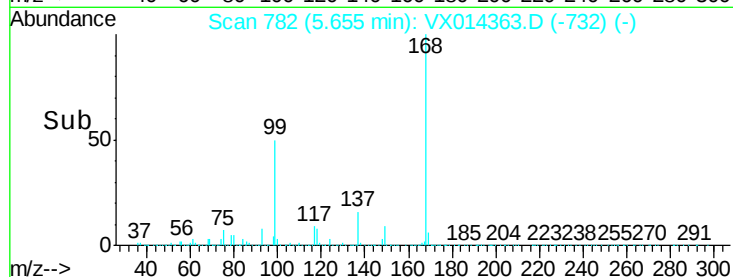
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.698 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014363.D

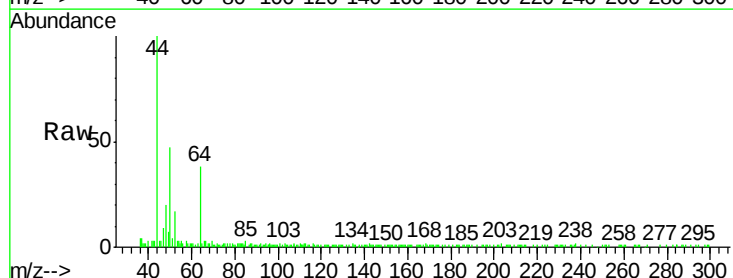
Acq: 30 Dec 2019 18:53

Tgt Ion: 50 Resp: 4202

Ion Ratio Lower Upper

50 100

52 32.6 26.2 39.4



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

5000

4000

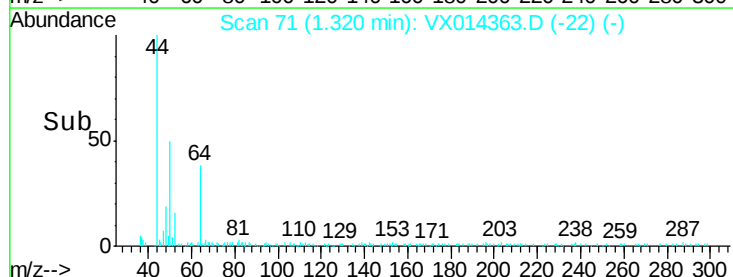
3000

2000

1000

0

Time-->





#6

Chloroethane

Concen: 10.048 ug/l

RT: 1.58 min Scan# 113

Delta R.T. -0.13 min

Lab File: VX014363.D

Acq: 30 Dec 2019 18:53

Instrument :

MSVOA_X

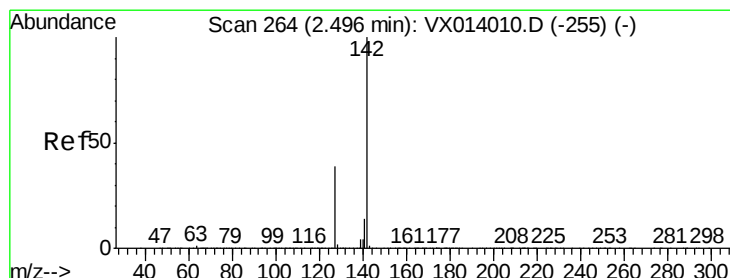
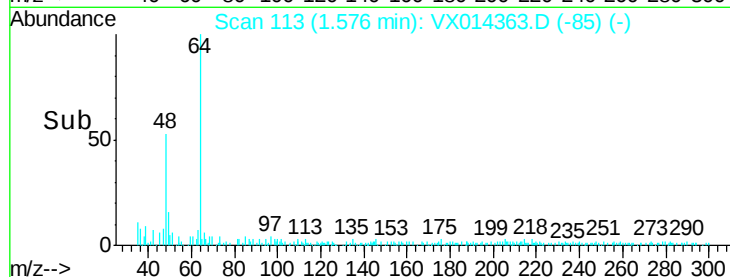
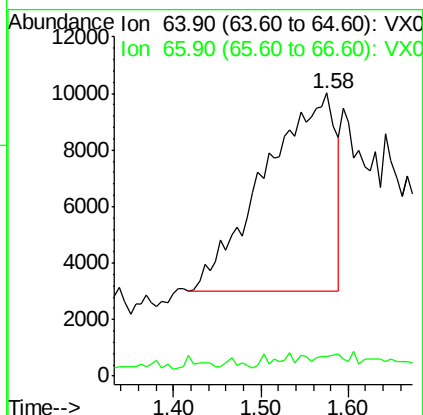
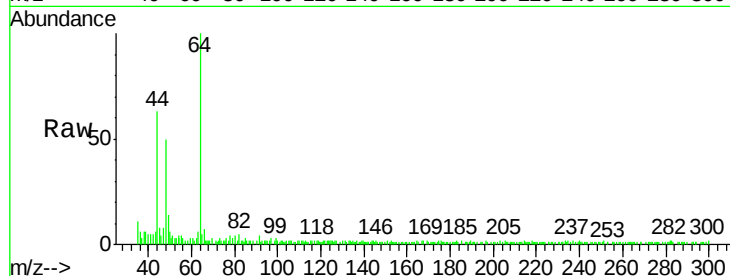
ClientSampleId :

Tot Ion: 64 Resp: 39367

Ion Ratio Lower Upper

64 100

66 0.0 23.4 35.2#



#10

Methyl Iodide

Concen: 2.670 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX014363.D

Acq: 30 Dec 2019 18:53

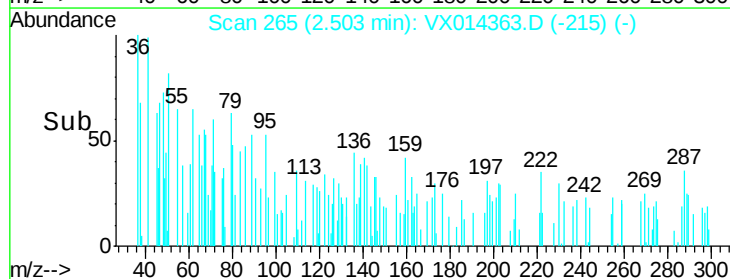
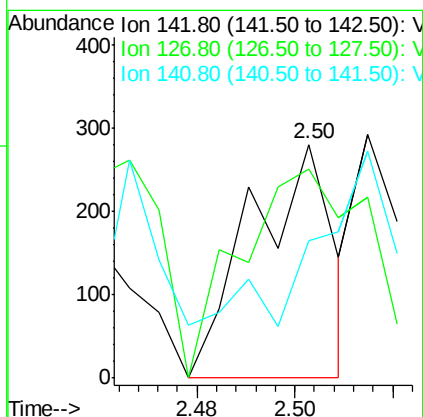
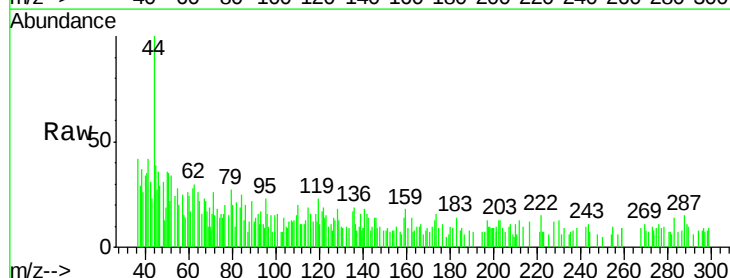
Tgt Ion: 142 Resp: 326

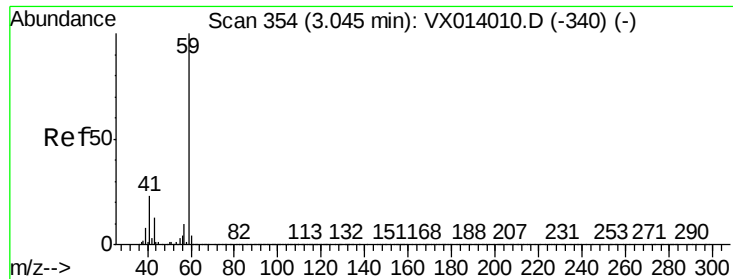
Ion Ratio Lower Upper

142 100

127 168.1 31.6 47.4#

141 139.9 11.6 17.4#

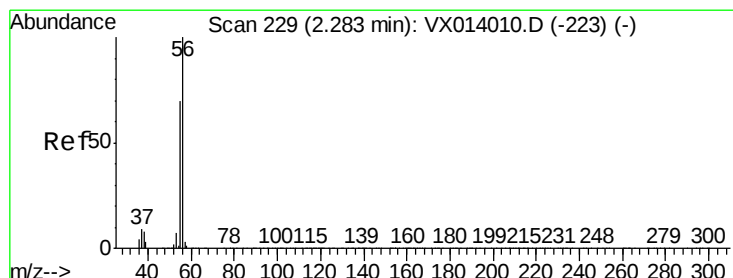
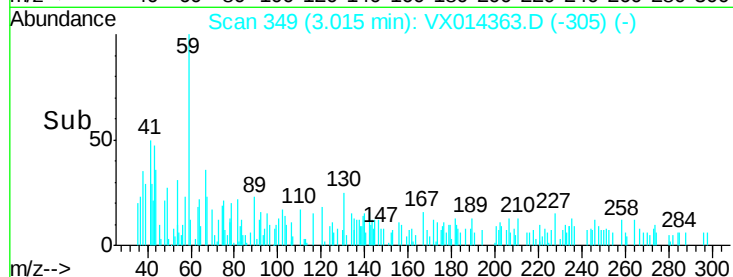
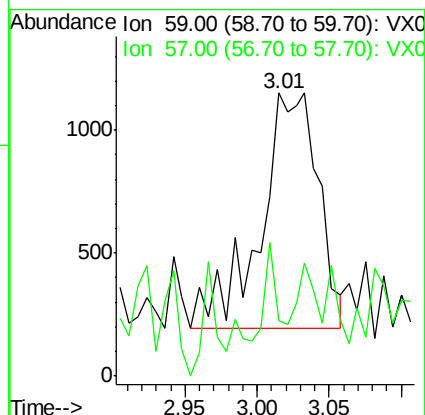
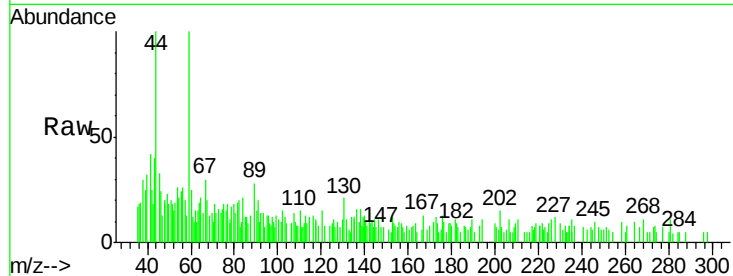




#11
Tert butyl alcohol
Concen: 2.195 ug/l
RT: 3.01 min Scan# 349
Delta R.T. -0.03 min
Lab File: VX014363.D
Acq: 30 Dec 2019 18:53

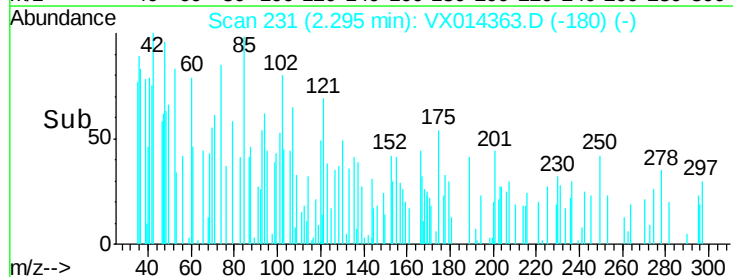
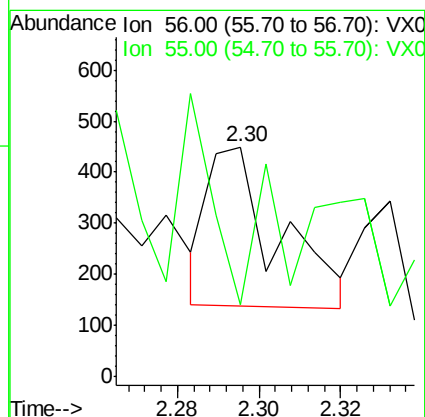
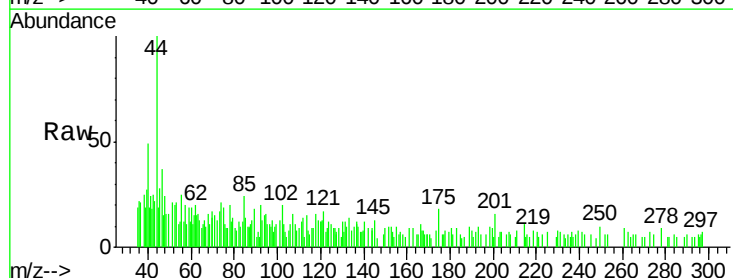
Instrument :
MSVOA_X
ClientSampled :

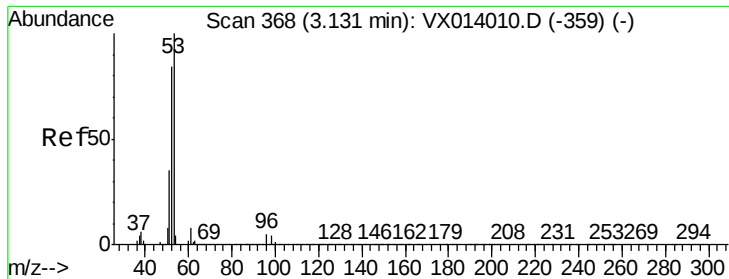
Tot Ion: 59 Resp: 2693
Ion Ratio Lower Upper
59 100
57 11.8 8.4 12.6



#13
Acrolein
Concen: 0.527 ug/l
RT: 2.30 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX014363.D
Acq: 30 Dec 2019 18:53

Tgt Ion: 56 Resp: 370
Ion Ratio Lower Upper
56 100
55 30.8 56.9 85.3#





#15

Acrylonitrile

Concen: 0.207 ug/l

RT: 3.14 min Scan# 369

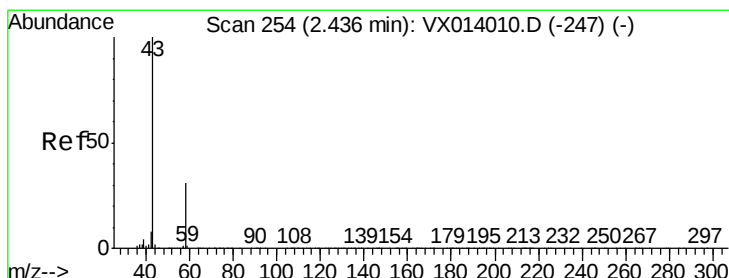
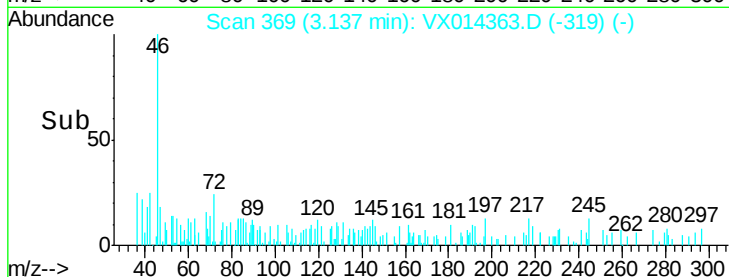
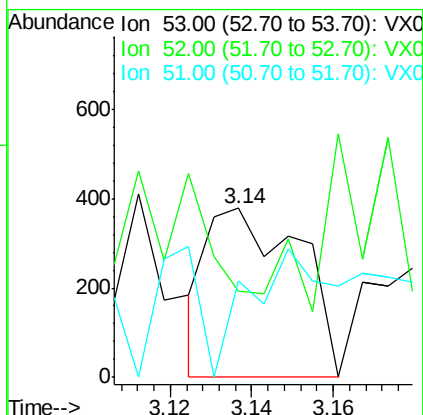
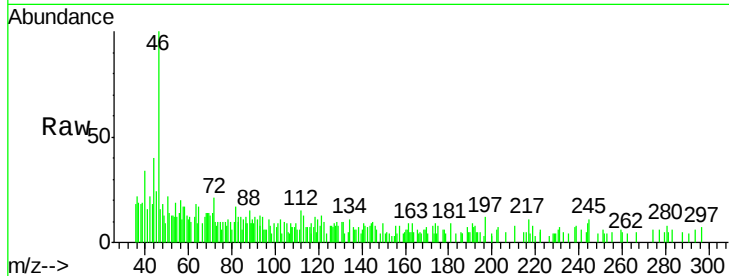
Delta R.T. 0.01 min

Lab File: VX014363.D

Acq: 30 Dec 2019 18:53

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	53	Resp:	594
Ion	Ratio	Lower	Upper
53	100		
52	0.0	66.5	99.7#
51	67.0	28.1	42.1#



#16

Acetone

Concen: 4.507 ug/l

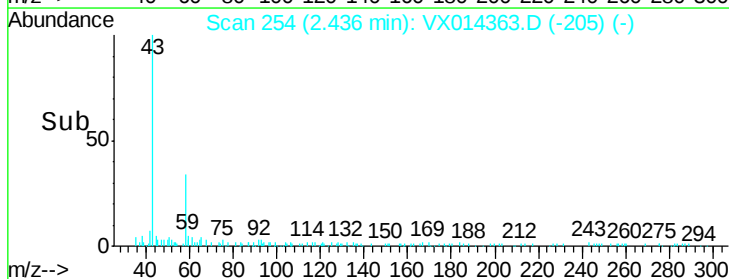
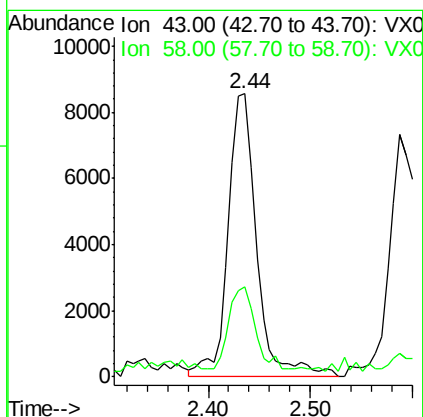
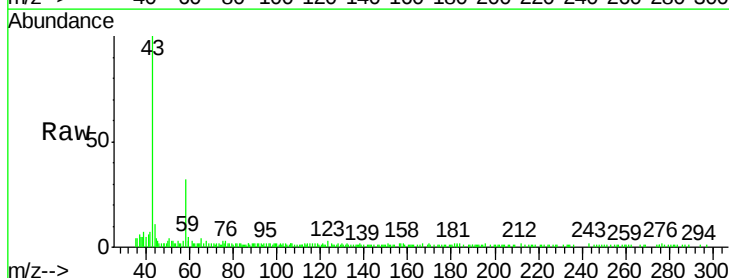
RT: 2.44 min Scan# 254

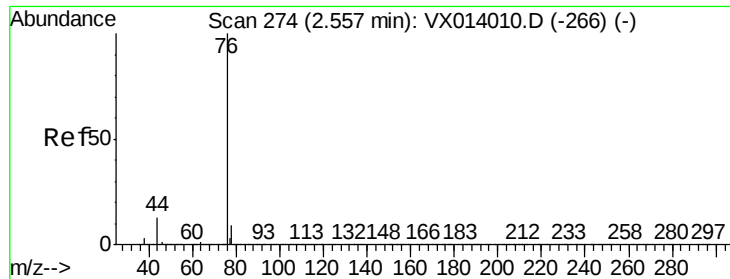
Delta R.T. 0.00 min

Lab File: VX014363.D

Acq: 30 Dec 2019 18:53

Tgt Ion:	43	Resp:	16619
Ion	Ratio	Lower	Upper
43	100		
58	29.6	24.9	37.3

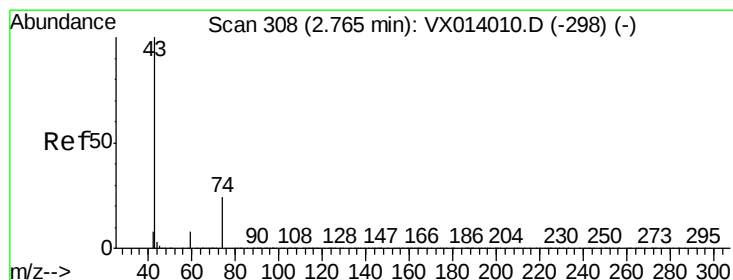
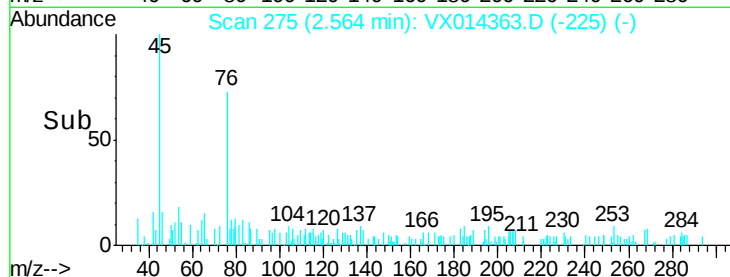
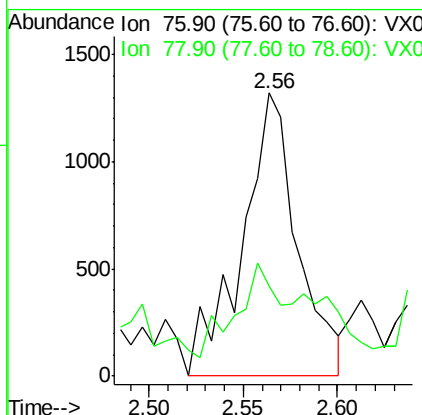
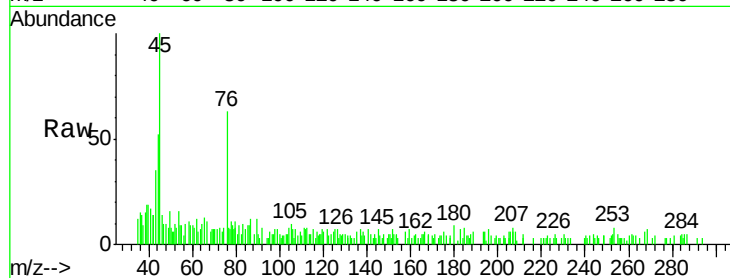




#17
Carbon Disulfide
Concen: 0.948 ug/l
RT: 2.56 min Scan# 275
Delta R.T. 0.01 min
Lab File: VX014363.D
Acq: 30 Dec 2019 18:53

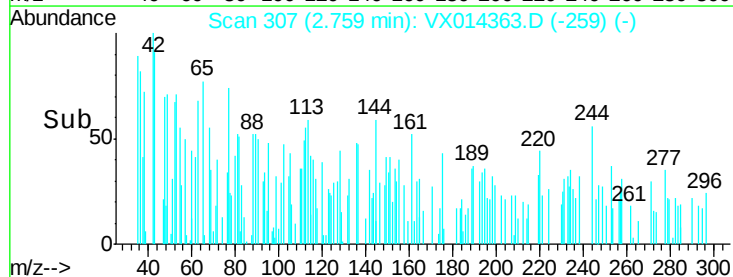
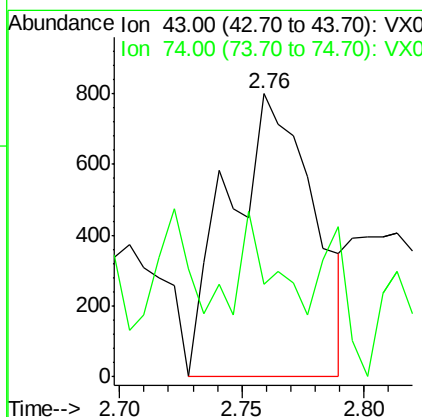
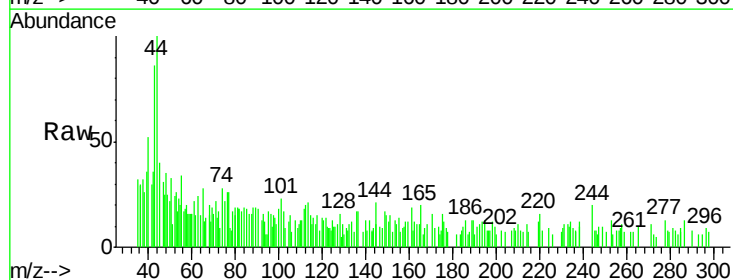
Instrument :
MSVOA_X
ClientSampled :

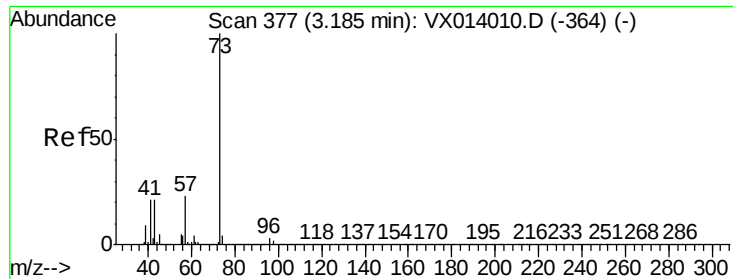
Tot Ion: 76 Resp: 2691
Ion Ratio Lower Upper
76 100
78 26.5 7.2 10.8#



#18
Methyl Acetate
Concen: 0.265 ug/l
RT: 2.76 min Scan# 307
Delta R.T. -0.01 min
Lab File: VX014363.D
Acq: 30 Dec 2019 18:53

Tgt Ion: 43 Resp: 1937
Ion Ratio Lower Upper
43 100
74 18.2 19.5 29.3#

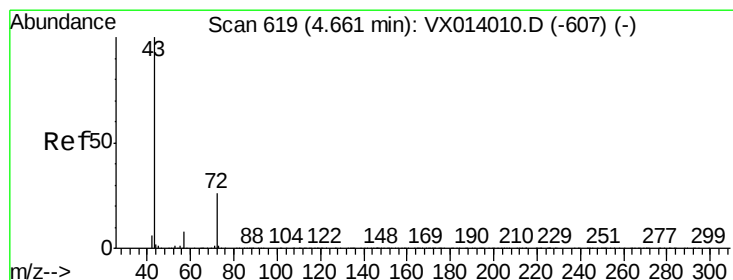
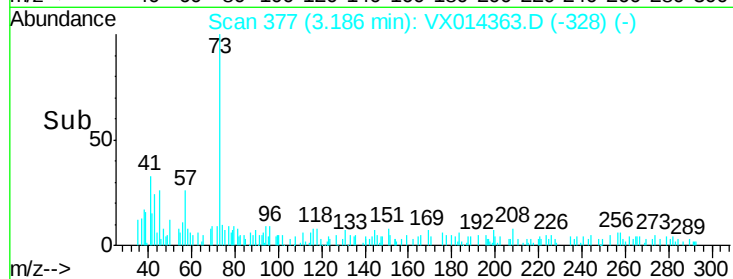
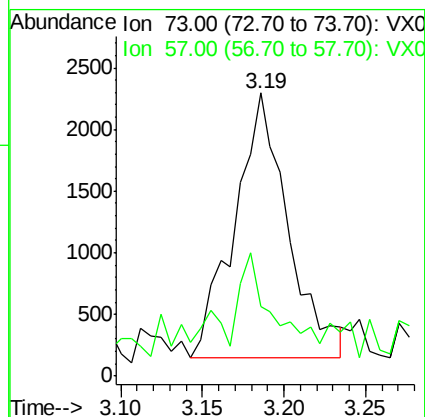
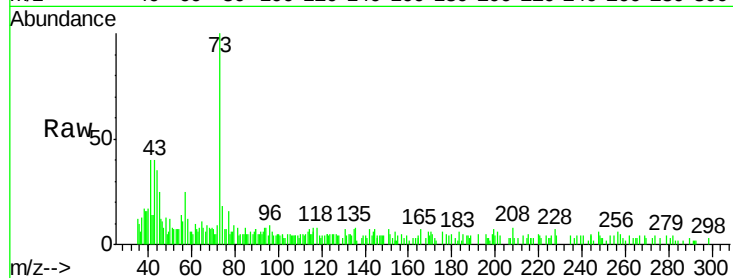




#19
Methvl tert-butvl Ether
Concen: 0.308 ug/l
RT: 3.19 min Scan# 377
Delta R.T. 0.00 min
Lab File: VX014363.D
Acq: 30 Dec 2019 18:53

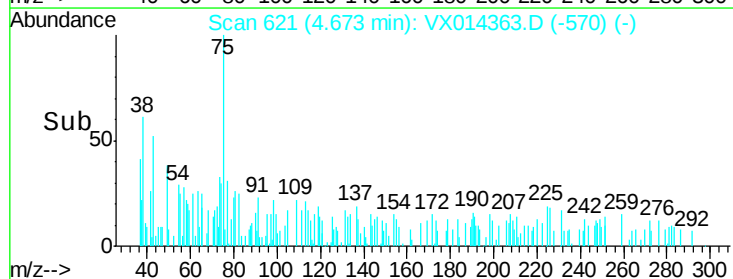
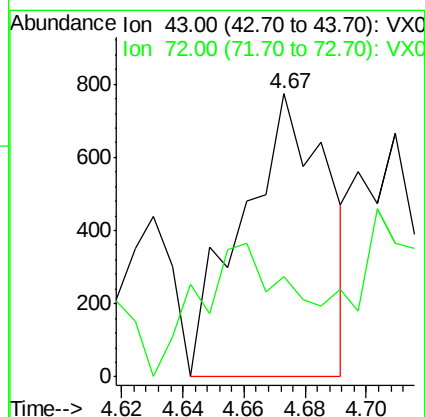
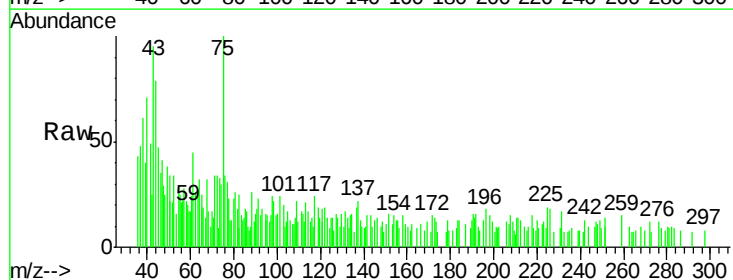
Instrument :
MSVOA_X
ClientSampleId :

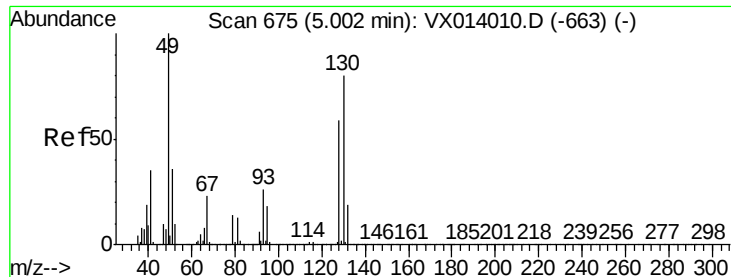
Tot Ion: 73 Resp: 4881
Ion Ratio Lower Upper
73 100
57 13.7 18.8 28.2#



#25
2-Butanone
Concen: 0.329 ug/l
RT: 4.67 min Scan# 621
Delta R.T. 0.01 min
Lab File: VX014363.D
Acq: 30 Dec 2019 18:53

Tgt Ion: 43 Resp: 1496
Ion Ratio Lower Upper
43 100
72 4.7 21.0 31.4#





#28

Bromochloromethane

Concen: 0.620 ug/l

RT: 4.98 min Scan# 672

Delta R.T. -0.02 min

Lab File: VX014363.D

Acq: 30 Dec 2019 18:53

Instrument :
MSVOA_X
ClientSampled :

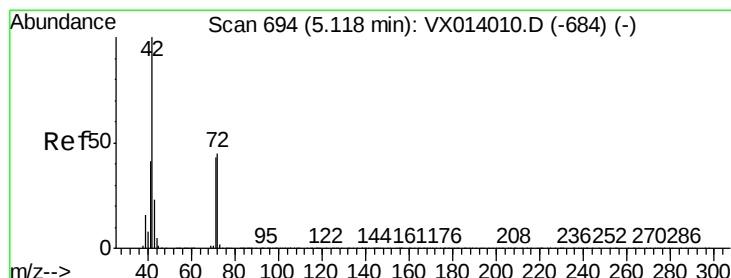
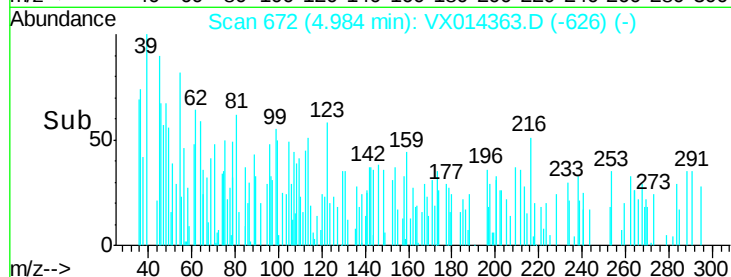
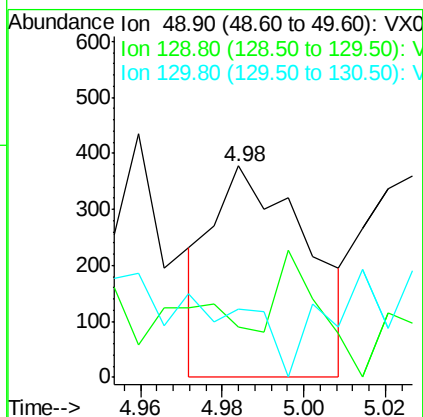
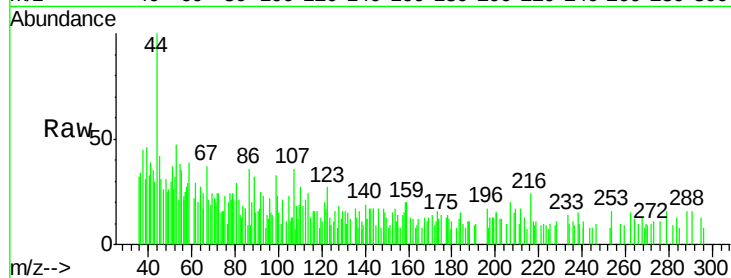
Tot Ion: 49 Resp: 614

Ion Ratio Lower Upper

49 100

129 23.3 0.0 5.0#

130 0.0 64.6 97.0#



#29

Tetrahydrofuran

Concen: 0.272 ug/l

RT: 4.90 min Scan# 658

Delta R.T. -0.22 min

Lab File: VX014363.D

Acq: 30 Dec 2019 18:53

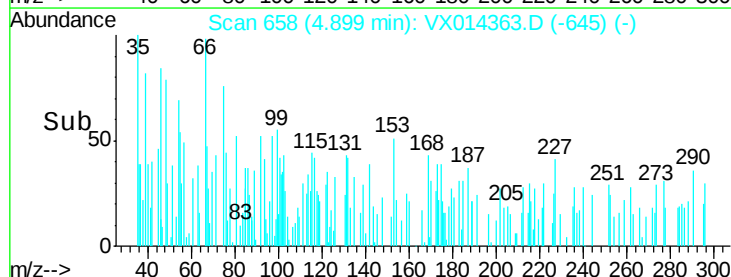
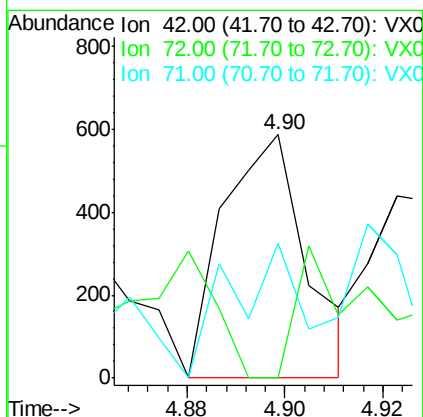
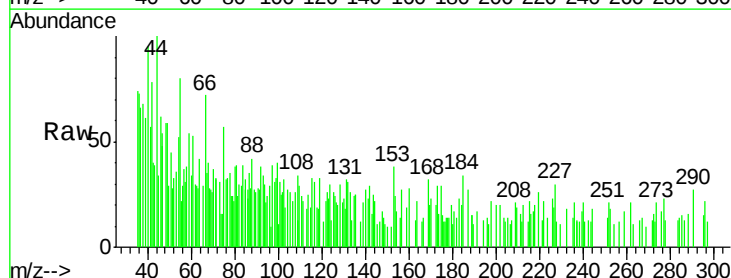
Tgt Ion: 42 Resp: 692

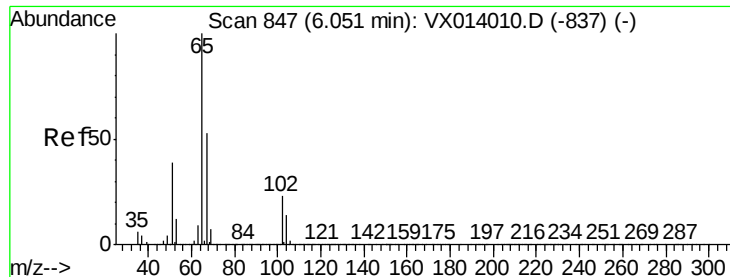
Ion Ratio Lower Upper

42 100

72 43.9 35.8 53.8

71 45.5 33.6 50.4





#33

1,2-Dichloroethane-d4

Concen: 50.251 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014363.D

Acq: 30 Dec 2019 18:53

Instrument :

MSVOA_X

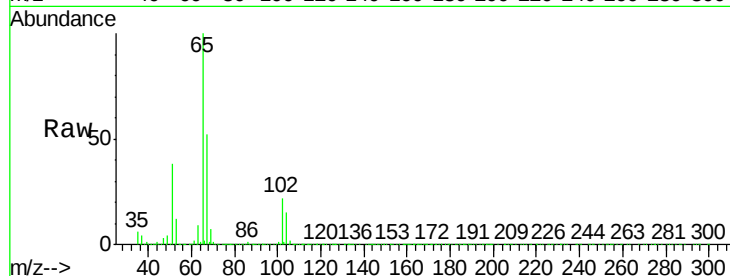
ClientSampleId :

Tot Ion: 65 Resp: 285380

Ion Ratio Lower Upper

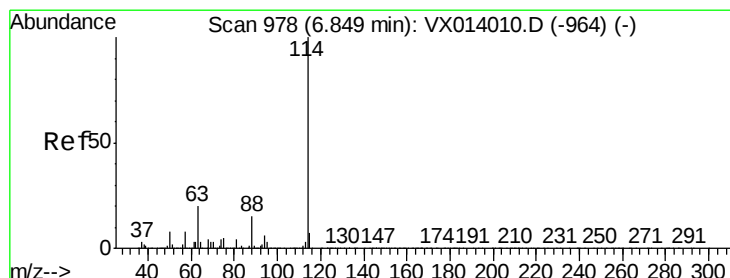
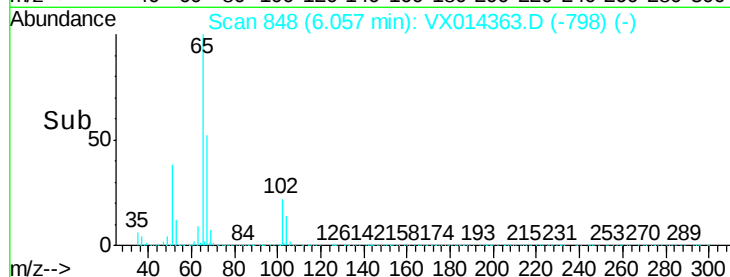
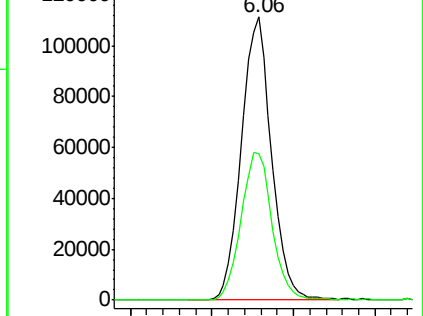
65 100

67 53.6 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014363.D

Acq: 30 Dec 2019 18:53

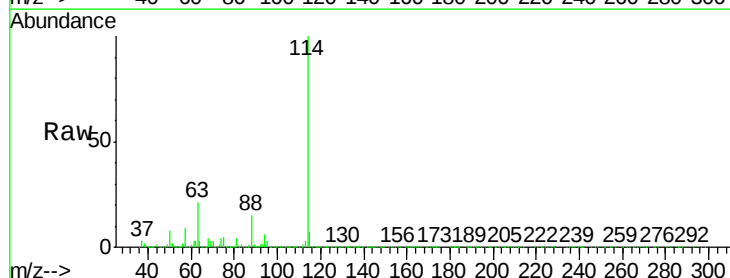
Tgt Ion: 114 Resp: 786790

Ion Ratio Lower Upper

114 100

63 20.5 0.0 40.8

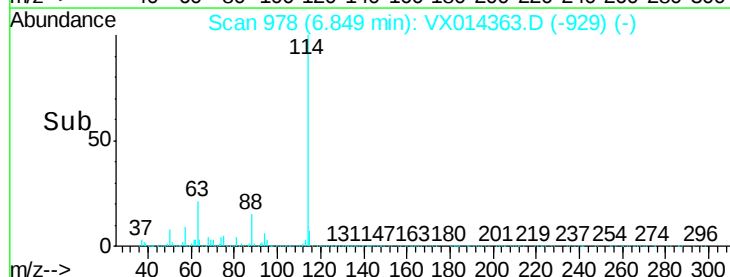
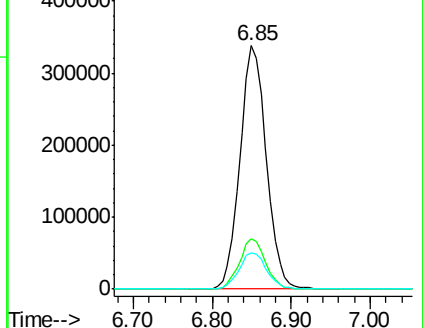
88 14.8 0.0 30.4

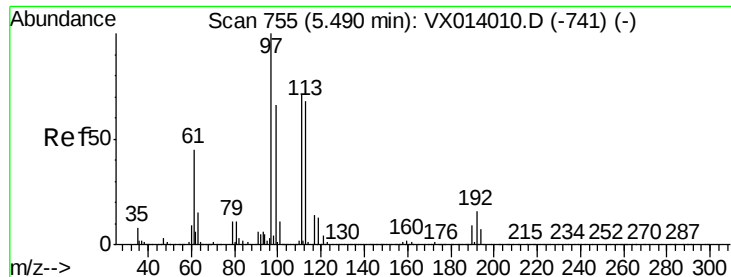


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

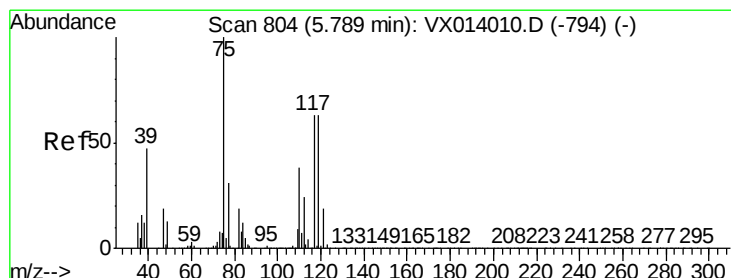
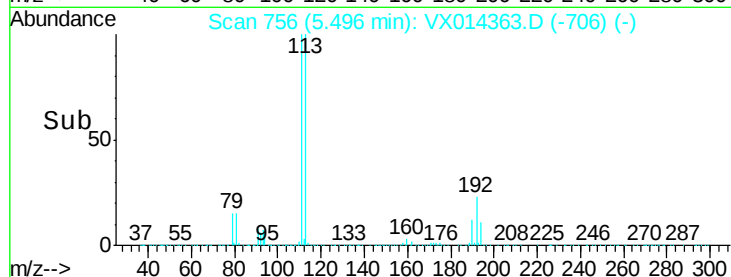
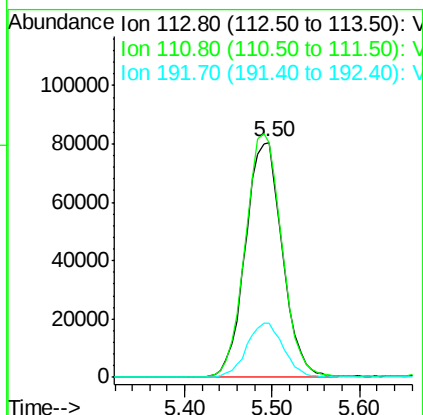
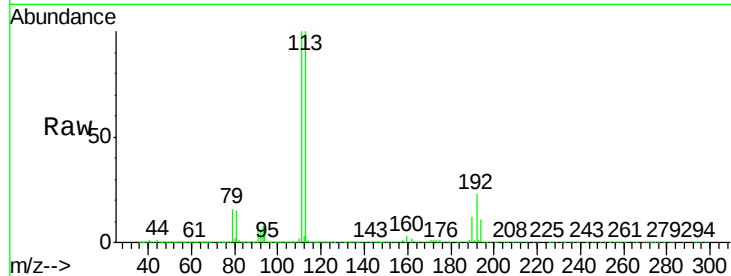




#35
Dibromofluoromethane
Concen: 49.455 ug/l
RT: 5.50 min Scan# 756
Delta R.T. 0.01 min
Lab File: VX014363.D
Acq: 30 Dec 2019 18:53

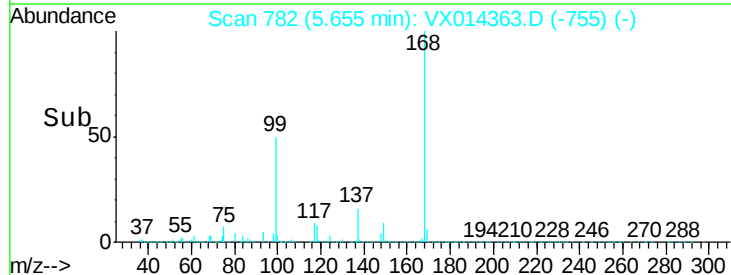
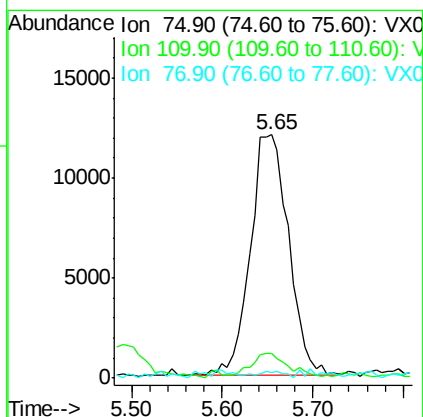
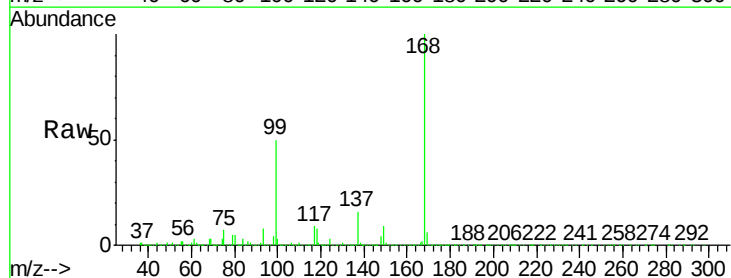
Instrument :
MSVOA_X
ClientSampled :

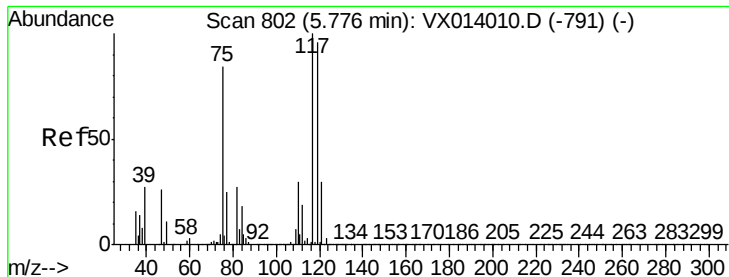
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.0	123.0
192	23.0	19.3	28.9



#36
1,1-Dichloropropene
Concen: 4.894 ug/l
RT: 5.65 min Scan# 782
Delta R.T. -0.13 min
Lab File: VX014363.D
Acq: 30 Dec 2019 18:53

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.9	18.3	54.9#
77	1.6	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.745 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014363.D

Acq: 30 Dec 2019 18:53

Instrument :

MSVOA_X

ClientSampled :

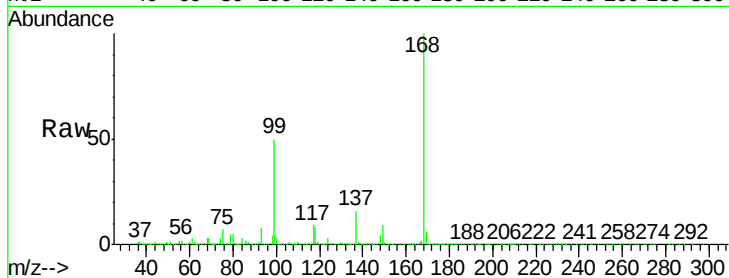
Tot Ion:117 Resp: 44360

Ion Ratio Lower Upper

117 100

119 7.4 76.2 114.4#

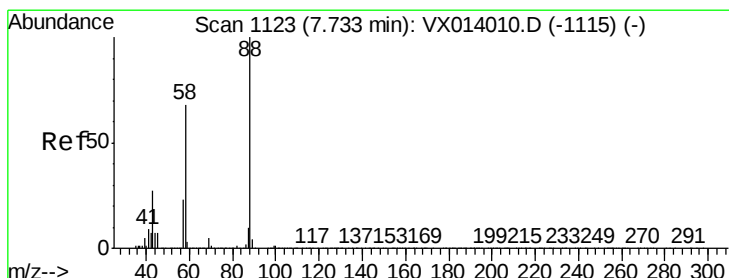
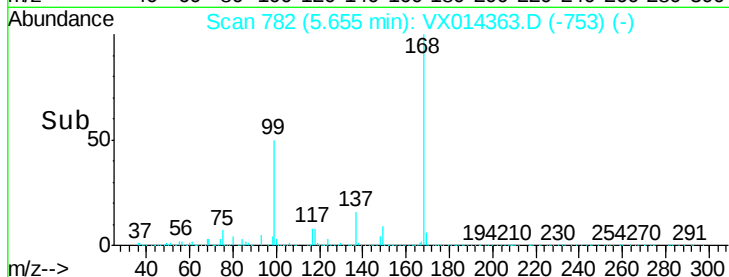
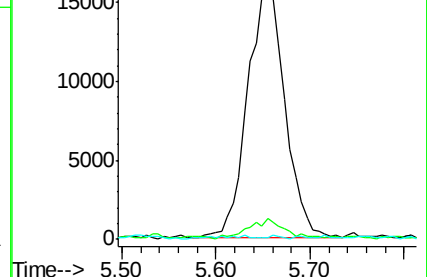
121 0.3 23.6 35.4#



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



#49

1,4-Dioxane

Concen: 1.308 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX014363.D

Acq: 30 Dec 2019 18:53

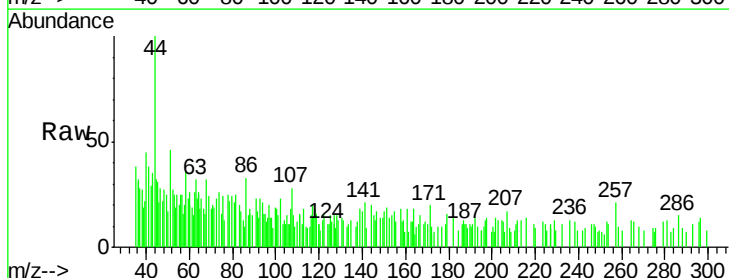
Tgt Ion: 88 Resp: 172

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

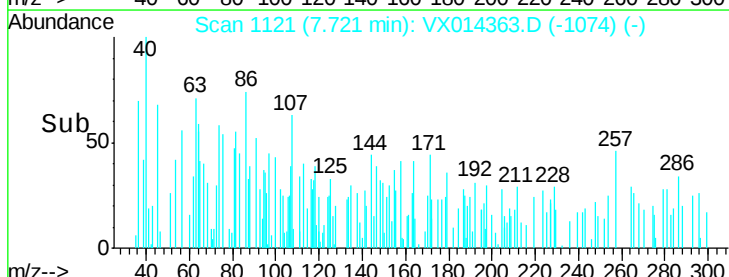
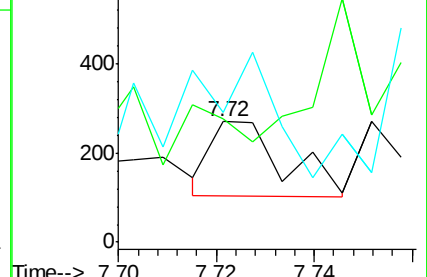
58 241.9 56.8 85.2#

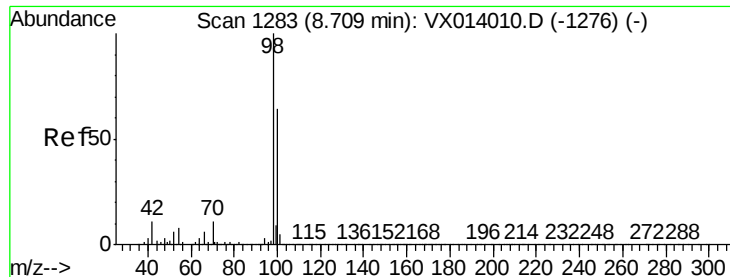


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.344 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014363.D

Acq: 30 Dec 2019 18:53

Instrument :

MSVOA_X

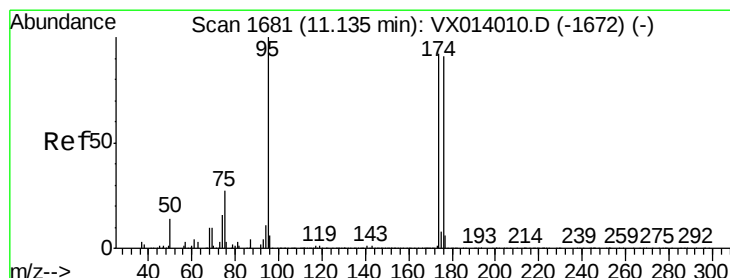
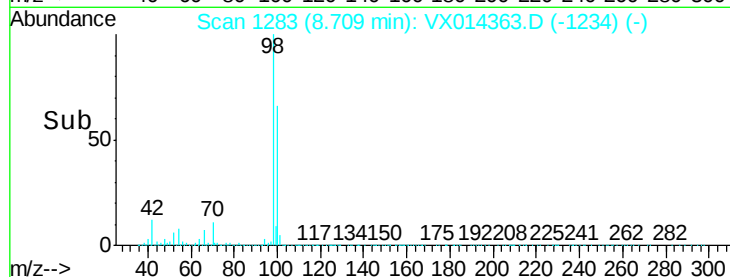
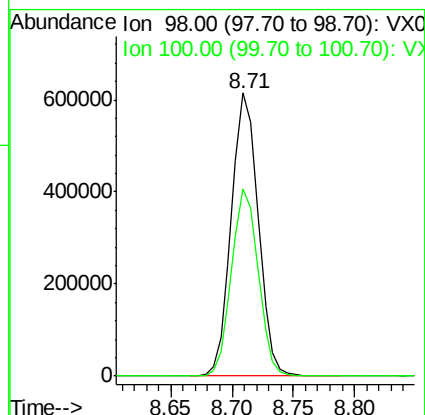
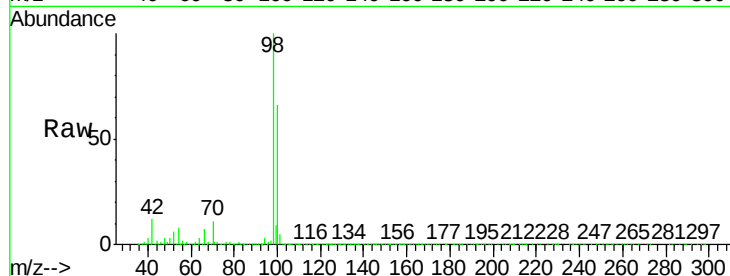
ClientSampleId :

Tot Ion: 98 Resp: 937444

Ion Ratio Lower Upper

98 100

100 65.5 52.9 79.3



#62

4-Bromofluorobenzene

Concen: 46.504 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX014363.D

Acq: 30 Dec 2019 18:53

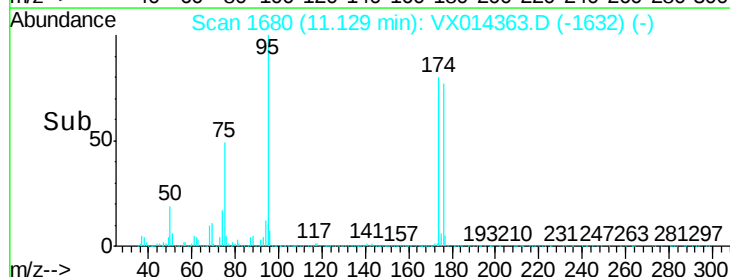
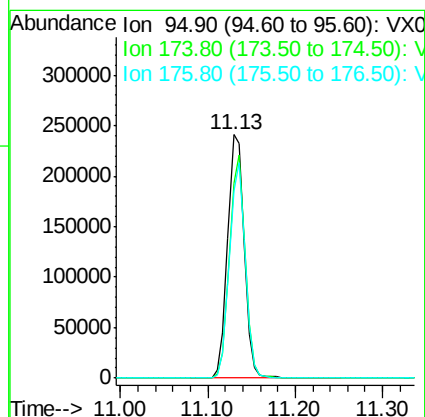
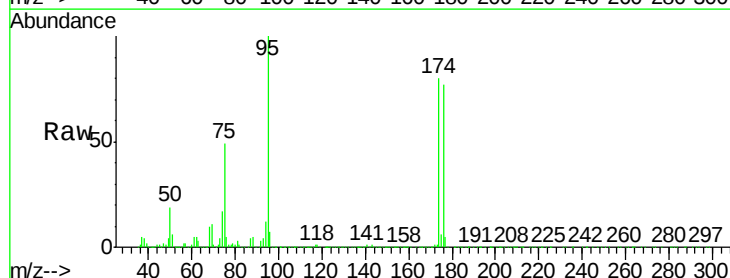
Tgt Ion: 95 Resp: 316540

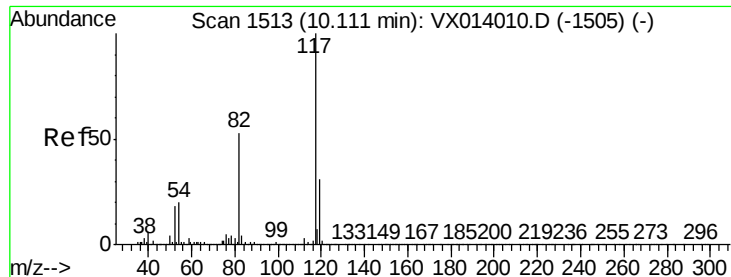
Ion Ratio Lower Upper

95 100

174 87.0 0.0 175.8

176 84.9 0.0 173.0

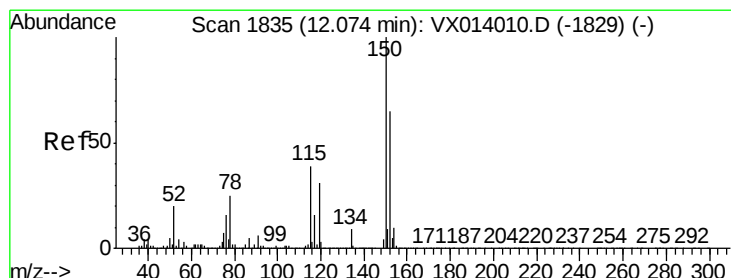
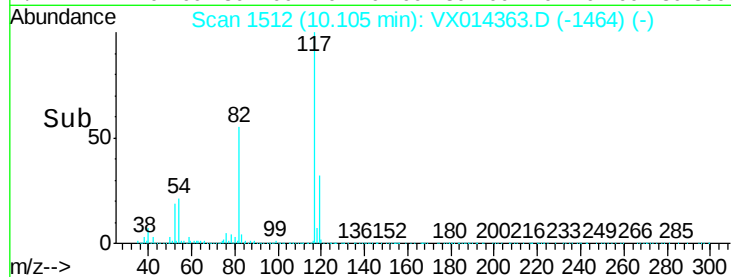
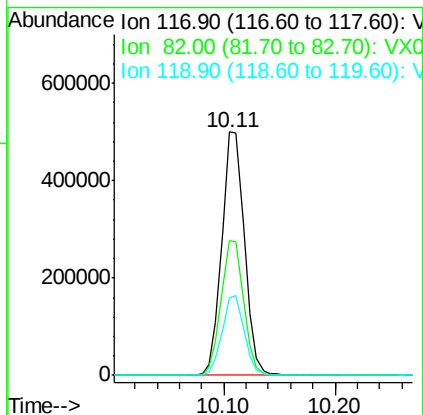
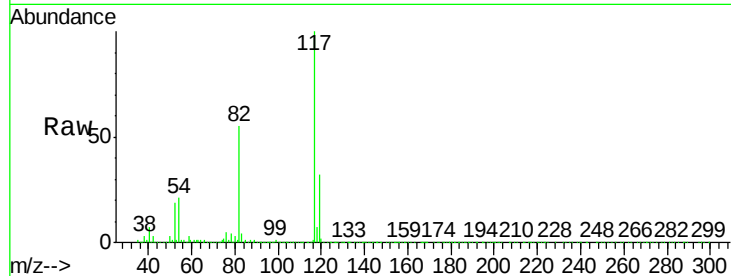




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014363.D
Acq: 30 Dec 2019 18:53

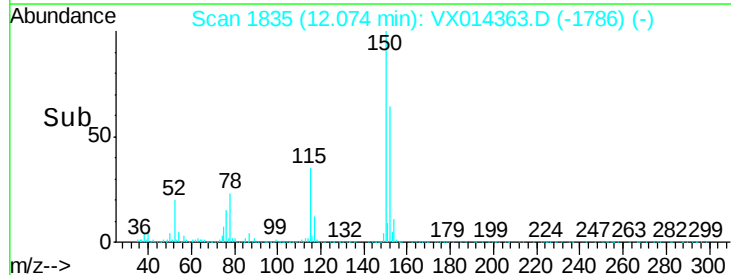
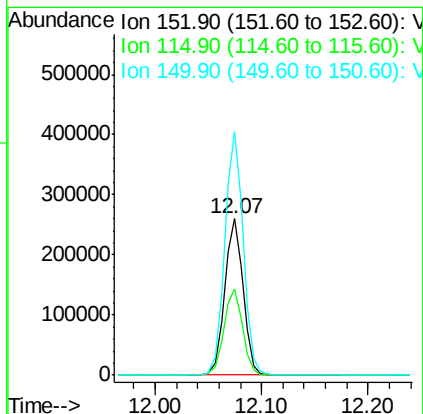
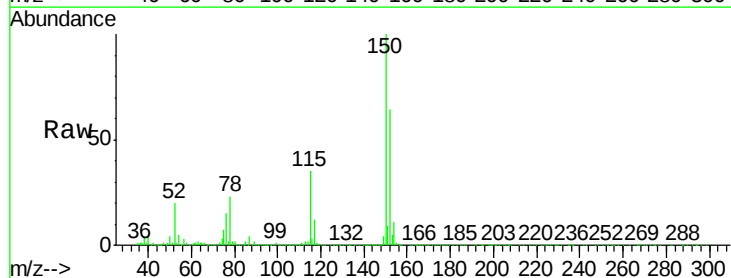
Instrument :
MSVOA_X
ClientSampleId :

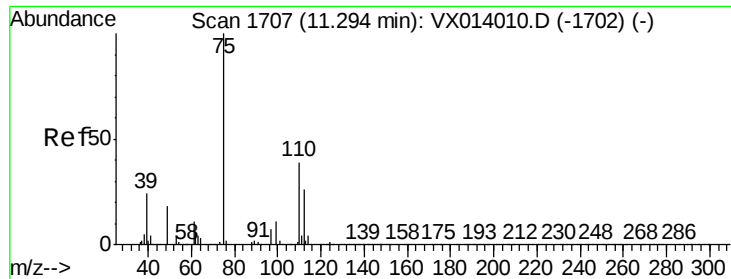
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.3	42.2	63.4
119	31.5	25.1	37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014363.D
Acq: 30 Dec 2019 18:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.2	38.3	114.9
150	156.3	0.0	345.4





#76

1,2,3-Trichloropropane

Concen: 22.386 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014363.D

Acq: 30 Dec 2019 18:53

Instrument :

MSVOA_X

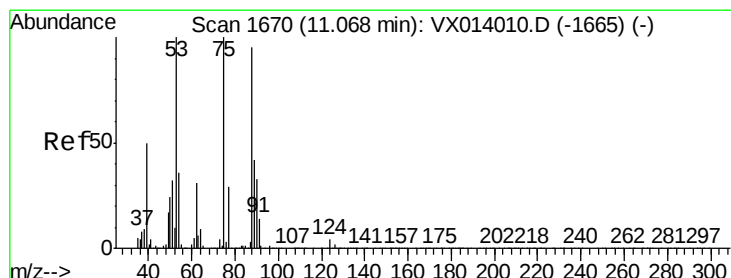
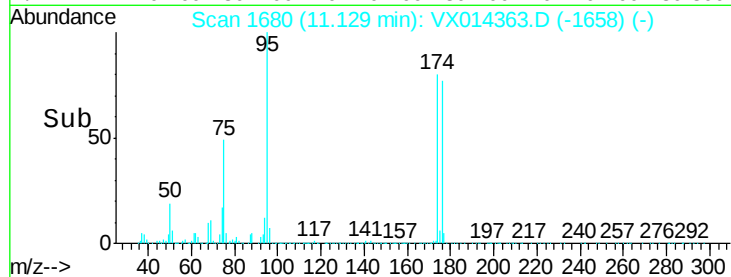
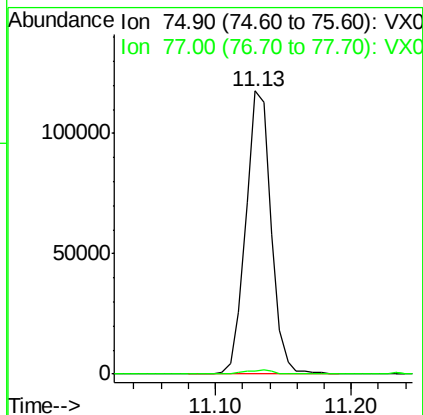
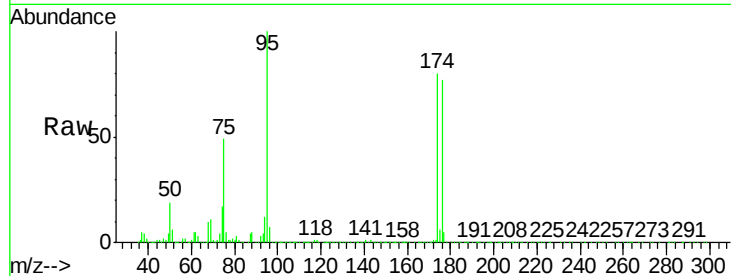
ClientSampled :

Tot Ion: 75 Resp: 152403

Ion Ratio Lower Upper

75 100

77 1.6 19.3 57.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 63.186 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014363.D

Acq: 30 Dec 2019 18:53

Tgt Ion: 75 Resp: 152403

Ion Ratio Lower Upper

75 100

53 0.3 76.7 115.1#

89 0.1 34.6 51.8#

