

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100219\
 Data File : VX012761.D
 Acq On : 02 Oct 2019 15:16
 Operator : JC/SP
 Sample : K5154-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

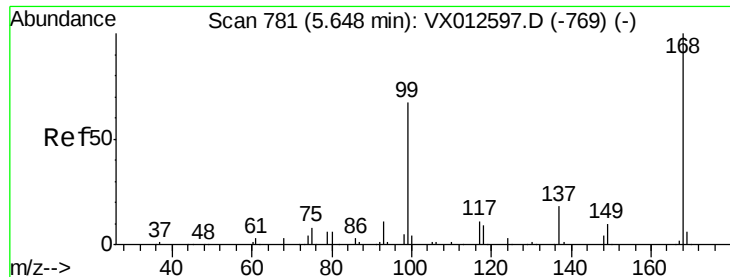
Quant Time: Oct 03 01:32:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	168873	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	291833	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	248414	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	89108	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	117462	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	
35) Dibromofluoromethane	5.49	113	88196	50.75	ug/l	0.00
Spiked Amount			Recovery	=	101.50%	
50) Toluene-d8	8.71	98	343051	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	
62) 4-Bromofluorobenzene	11.14	95	111731	42.45	ug/l	0.00
Spiked Amount			Recovery	=	84.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	486	0.570	ug/l #	75
6) Chloroethane	1.66	64	330	0.226	ug/l #	86
10) Methyl Iodide	2.50	142	428	5.150	ug/l #	73
11) Tert butyl alcohol	3.01	59	8865	14.431	ug/l #	74
13) Acrolein	2.30	56	94	10.496	ug/l #	1
14) Allyl chloride	2.60	41	6401	1.777	ug/l #	68
16) Acetone	2.44	43	8739	6.709	ug/l	95
18) Methyl Acetate	2.59	43	16916	5.515	ug/l #	54
20) Methylene Chloride	2.84	84	1847	0.838	ug/l #	88
25) 2-Butanone	4.69	43	2306	1.235	ug/l #	74
26) 2,2-Dichloropropane	4.69	77	786	0.234	ug/l #	55
29) Tetrahydrofuran	5.14	42	1221	1.073	ug/l #	67
31) Cyclohexane	5.65	56	3693	1.079	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	13550	4.817	ug/l #	51
38) Carbon Tetrachloride	5.65	117	18358	6.425	ug/l #	17
49) 1,4-Dioxane	7.59	88	20	0.334	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	55950	23.737	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	55950	68.024	ug/l #	8
93) 1,2,4-Trichlorobenzene	13.64	180	403	0.223	ug/l	94
94) Hexachlorobutadiene	13.78	225	170	0.219	ug/l #	39
95) Naphthalene	13.84	128	1437	0.220	ug/l	97
96) 1,2,3-Trichlorobenzene	14.01	180	478	0.264	ug/l	89

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012761.D

Acq: 02 Oct 2019 15:16

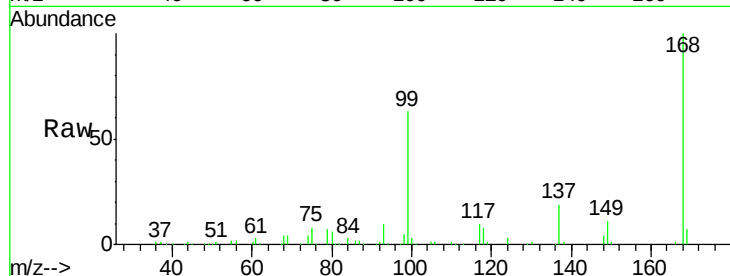
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 168873

Ion Ratio Lower Upper

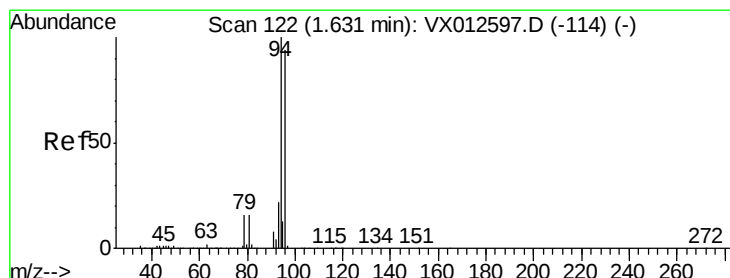
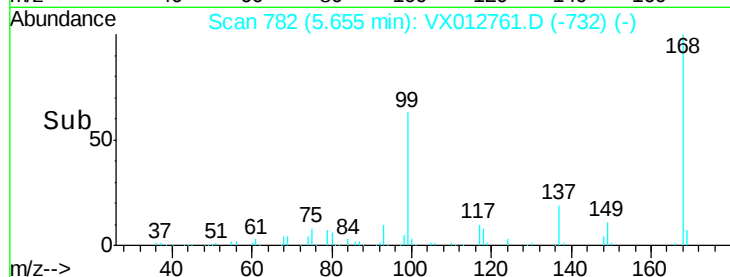
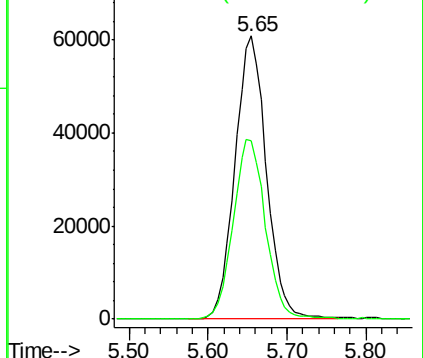
168 100

99 63.2 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.570 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012761.D

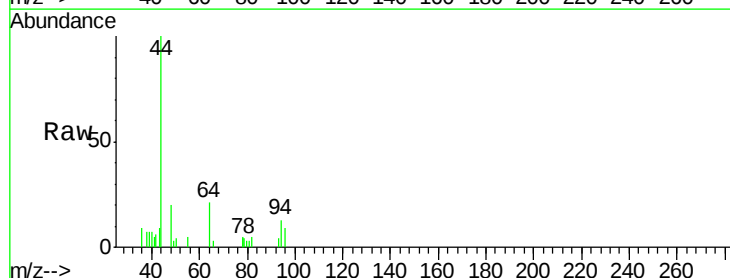
Acq: 02 Oct 2019 15:16

Tgt Ion: 94 Resp: 486

Ion Ratio Lower Upper

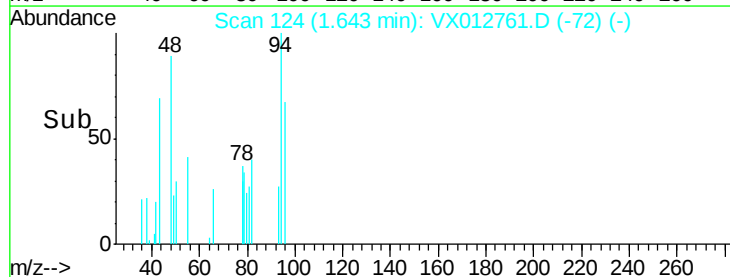
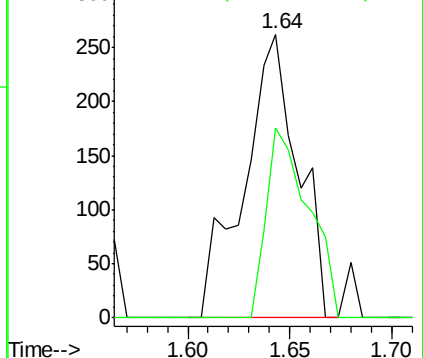
94 100

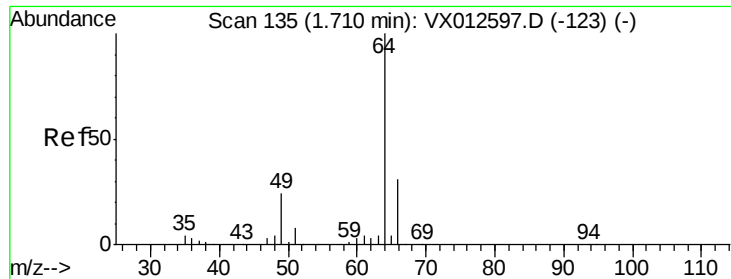
96 67.2 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.226 ug/l

RT: 1.66 min Scan# 127

Delta R.T. -0.05 min

Lab File: VX012761.D

Acq: 02 Oct 2019 15:16

Instrument :

MSVOA_X

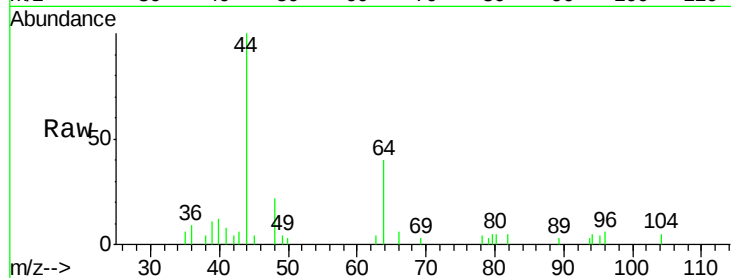
ClientSampleId :

Tot Ion: 64 Resp: 330

Ion Ratio Lower Upper

64 100

66 37.5 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.66

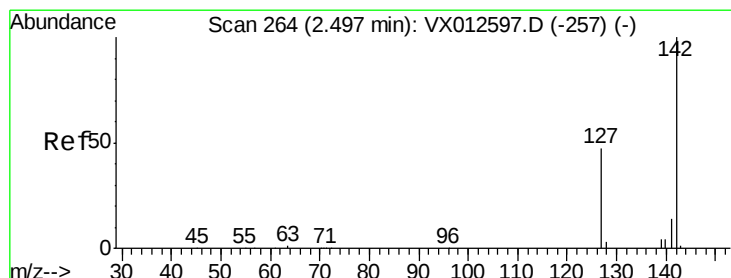
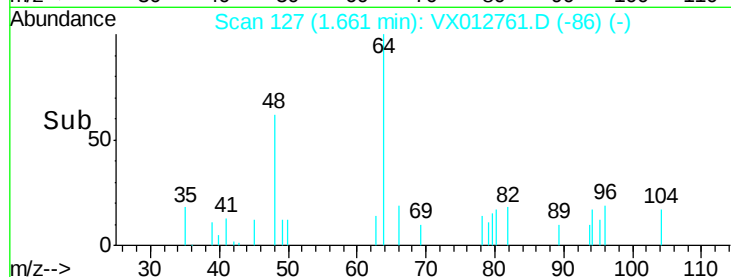
600

400

200

0

Time-->



#10

Methyl Iodide

Concen: 5.150 ug/l

RT: 2.50 min Scan# 265

Delta R.T. 0.01 min

Lab File: VX012761.D

Acq: 02 Oct 2019 15:16

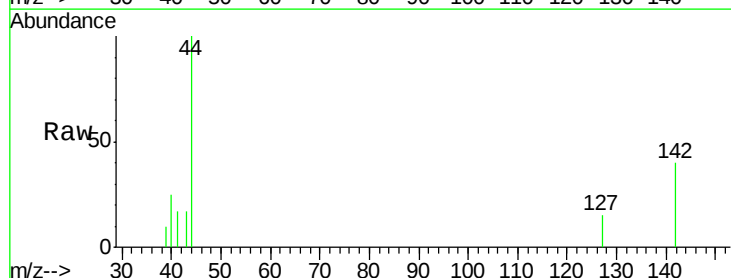
Tgt Ion: 142 Resp: 428

Ion Ratio Lower Upper

142 100

127 31.5 40.8 61.2#

141 4.4 12.1 18.1#



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

2.50

300

250

200

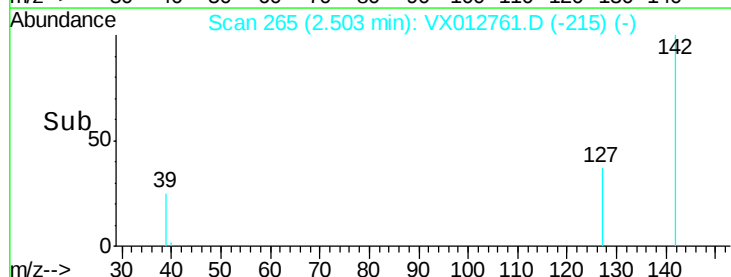
150

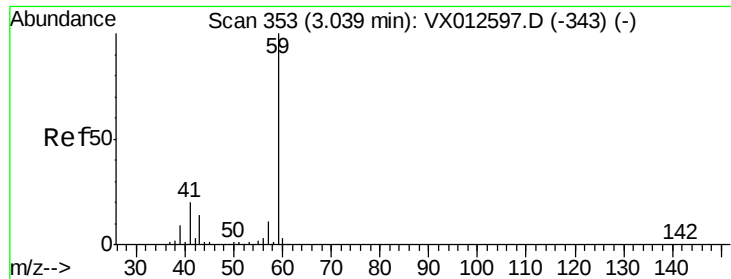
100

50

0

Time-->



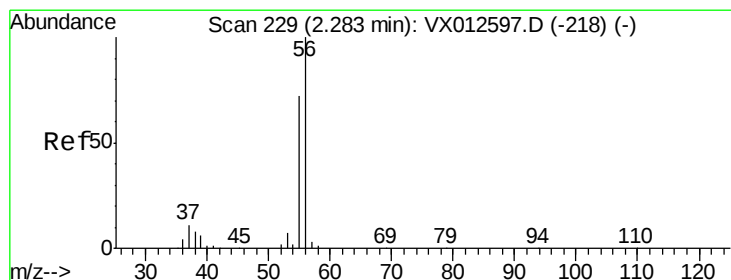
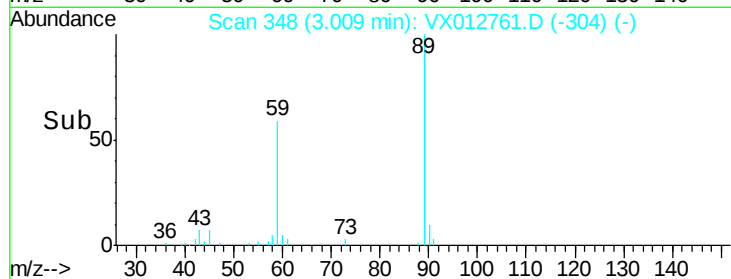
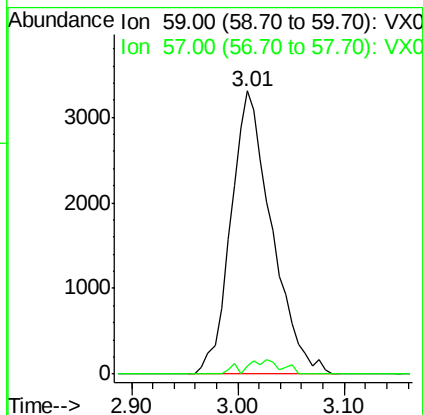
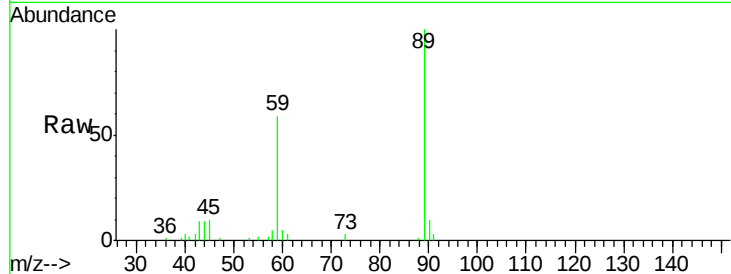


#11

Tert butyl alcohol
 Concen: 14.431 ug/l
 RT: 3.01 min Scan# 348
 Delta R.T. -0.03 min
 Lab File: VX012761.D
 Acq: 02 Oct 2019 15:16

Instrument :
 MSVOA_X
 ClientSampleId :

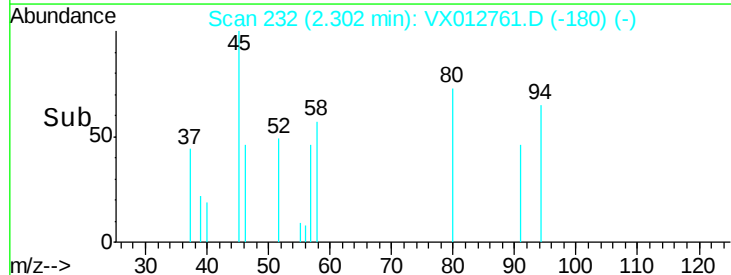
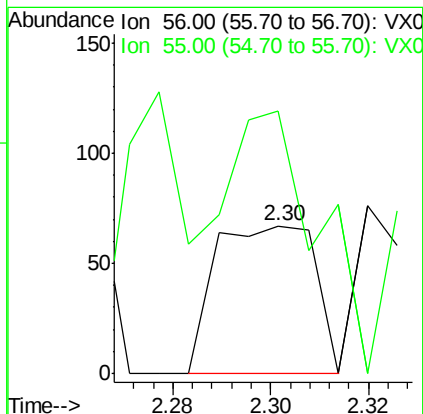
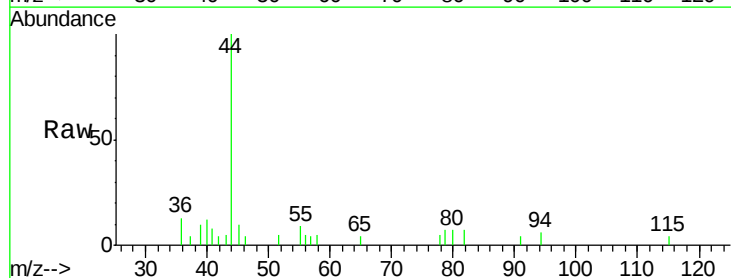
Tot Ion: 59 Resp: 8865
 Ion Ratio Lower Upper
 59 100
 57 0.7 8.3 12.5#

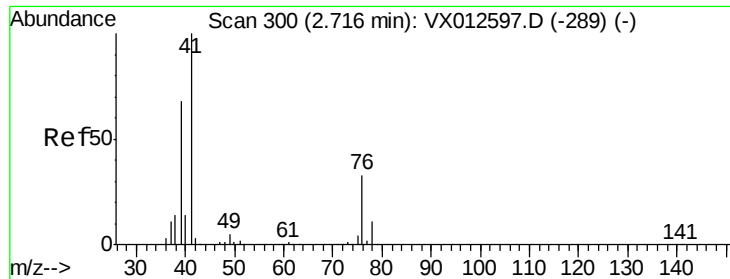


#13

Acrolein
 Concen: 10.496 ug/l
 RT: 2.30 min Scan# 232
 Delta R.T. 0.02 min
 Lab File: VX012761.D
 Acq: 02 Oct 2019 15:16

Tgt Ion: 56 Resp: 94
 Ion Ratio Lower Upper
 56 100
 55 171.3 55.8 83.8#

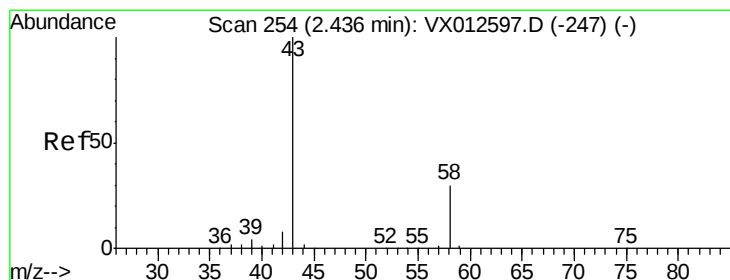
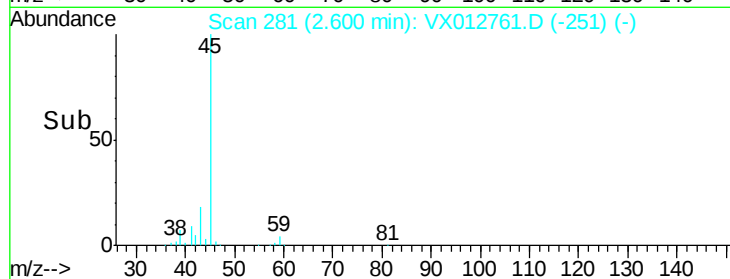
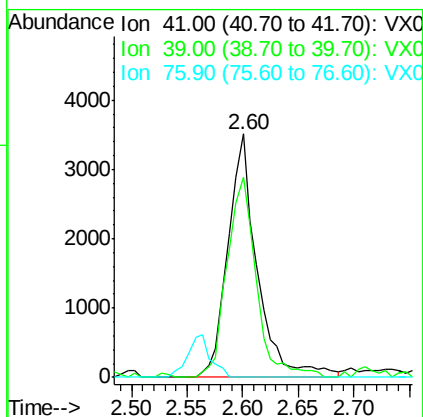
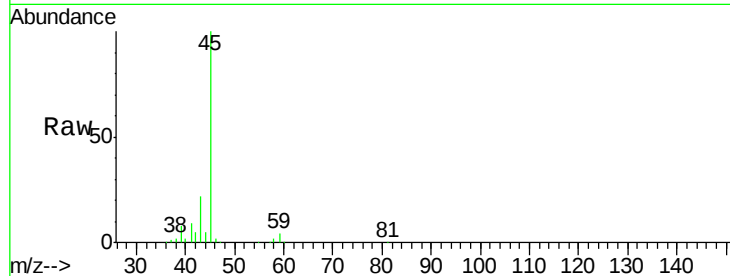




#14
Allvl chloride
Concen: 1.777 ug/l
RT: 2.60 min Scan# 281
Delta R.T. -0.12 min
Lab File: VX012761.D
Acq: 02 Oct 2019 15:16

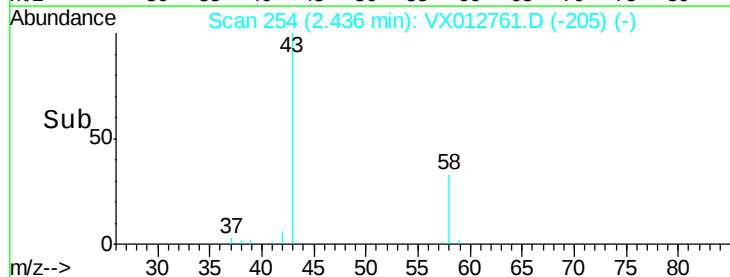
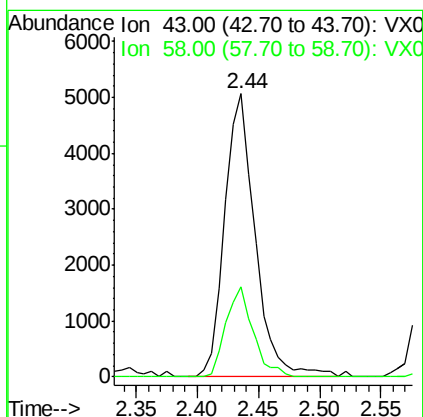
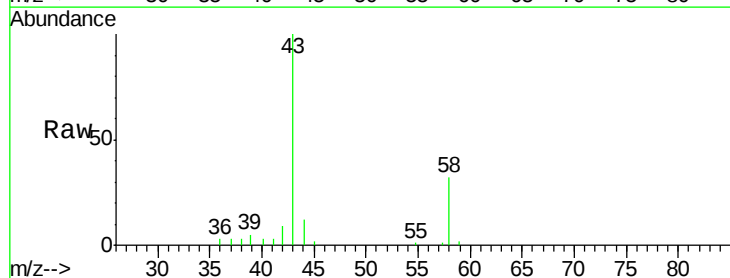
Instrument :
MSVOA_X
ClientSampleId :

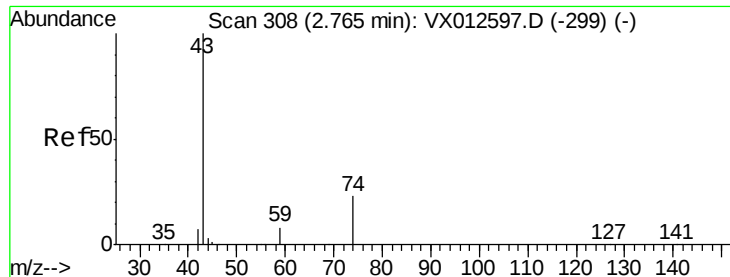
Tot Ion: 41 Resp: 6401
Ion Ratio Lower Upper
41 100
39 82.3 51.3 76.9#
76 0.0 22.6 33.8#



#16
Acetone
Concen: 6.709 ug/l
RT: 2.44 min Scan# 254
Delta R.T. 0.00 min
Lab File: VX012761.D
Acq: 02 Oct 2019 15:16

Tgt Ion: 43 Resp: 8739
Ion Ratio Lower Upper
43 100
58 31.8 23.3 34.9





#18

Methyl Acetate

Concen: 5.515 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012761.D

Acq: 02 Oct 2019 15:16

Instrument :

MSVOA_X

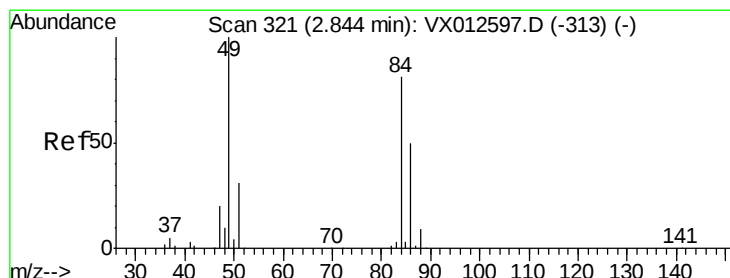
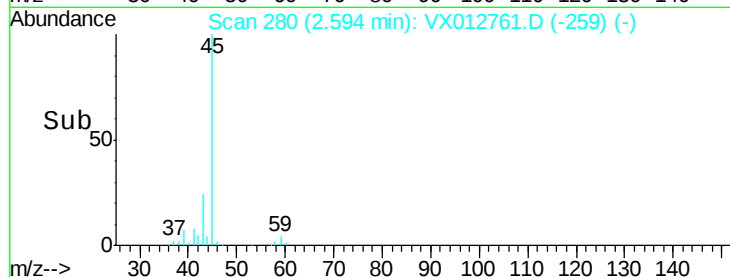
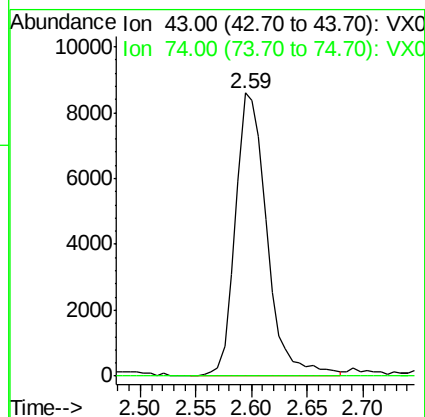
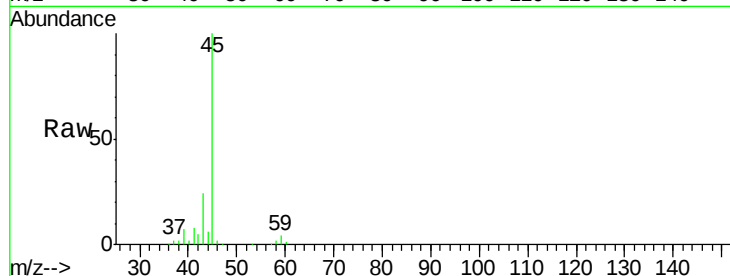
ClientSampleId :

Tot Ion: 43 Resp: 16916

Ion Ratio Lower Upper

43 100

74 0.0 17.7 26.5#



#20

Methylene Chloride

Concen: 0.838 ug/l

RT: 2.84 min Scan# 321

Delta R.T. 0.00 min

Lab File: VX012761.D

Acq: 02 Oct 2019 15:16

Tgt Ion: 84 Resp: 1847

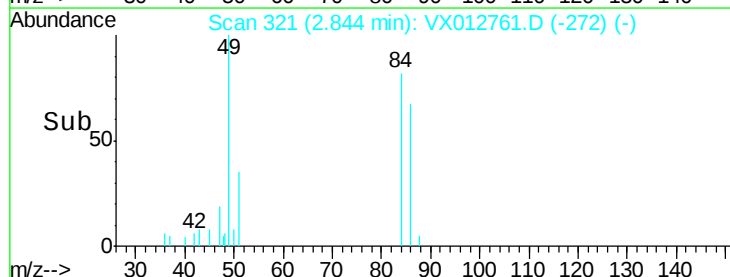
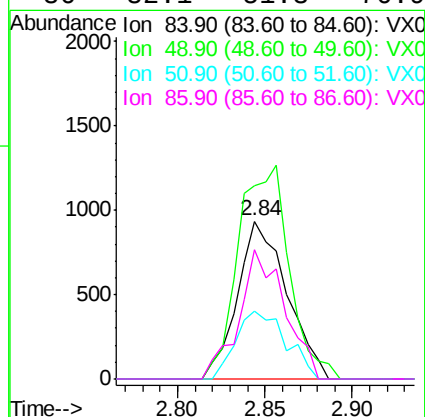
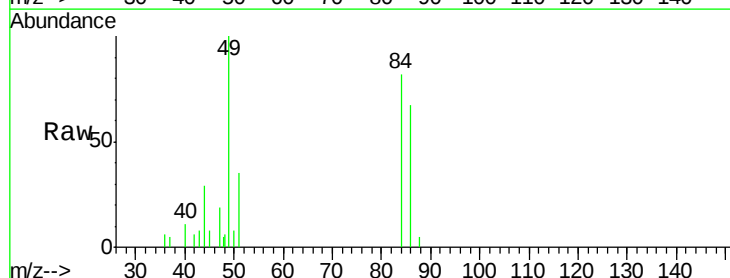
Ion Ratio Lower Upper

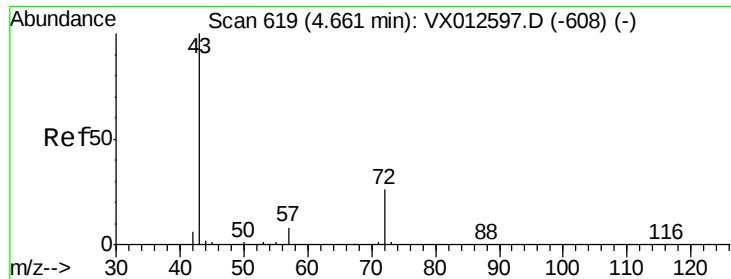
84 100

49 122.3 106.8 160.2

51 42.7 32.3 48.5

86 82.1 51.3 76.9#





#25

2-Butanone

Concen: 1.235 ug/l

RT: 4.69 min Scan# 623

Delta R.T. 0.02 min

Lab File: VX012761.D

Acq: 02 Oct 2019 15:16

Instrument :

MSVOA_X

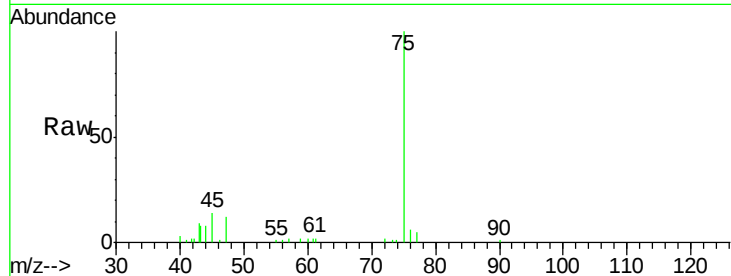
ClientSampled :

Tot Ion: 43 Resp: 2306

Ion Ratio Lower Upper

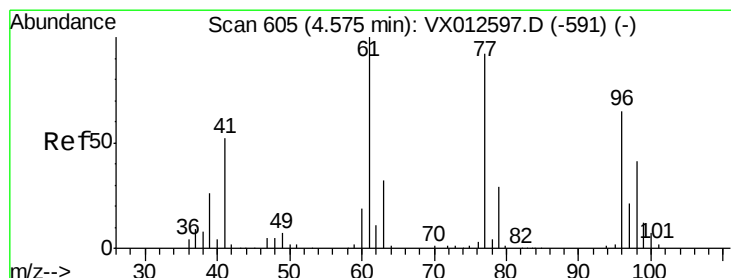
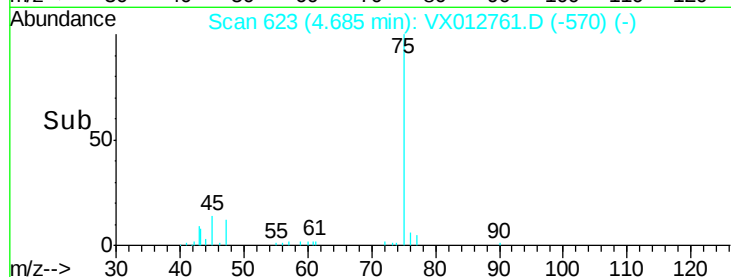
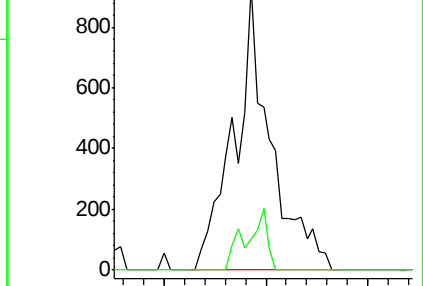
43 100

72 11.1 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 0.234 ug/l

RT: 4.69 min Scan# 623

Delta R.T. 0.12 min

Lab File: VX012761.D

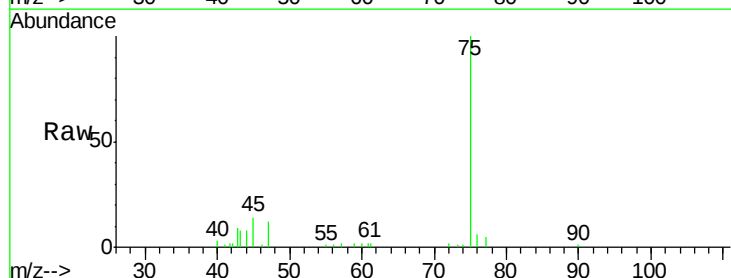
Acq: 02 Oct 2019 15:16

Tgt Ion: 77 Resp: 786

Ion Ratio Lower Upper

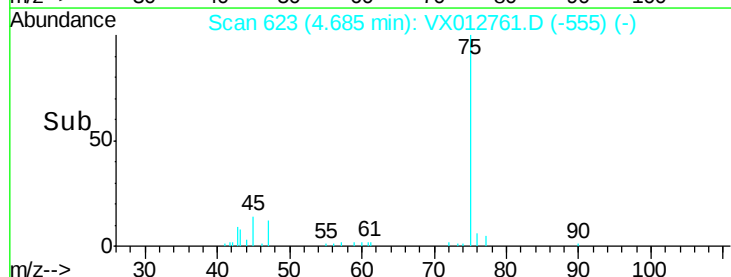
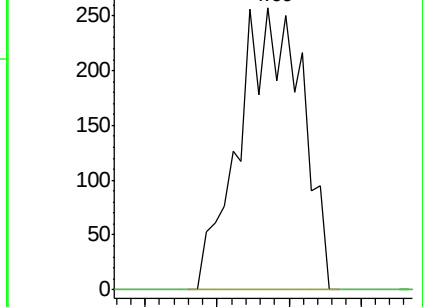
77 100

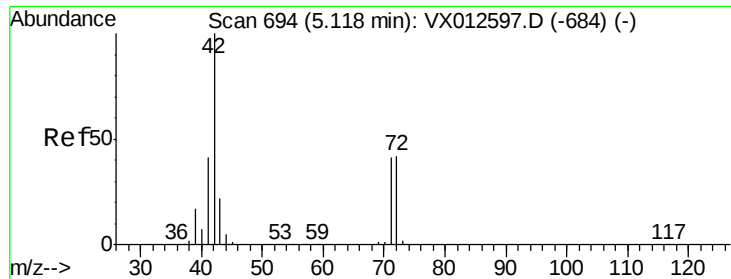
97 0.0 10.5 31.6#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#29

Tetrahydrofuran

Concen: 1.073 ug/l

RT: 5.14 min Scan# 698

Delta R.T. 0.03 min

Lab File: VX012761.D

Acq: 02 Oct 2019 15:16

Instrument :

MSVOA_X

ClientSampled :

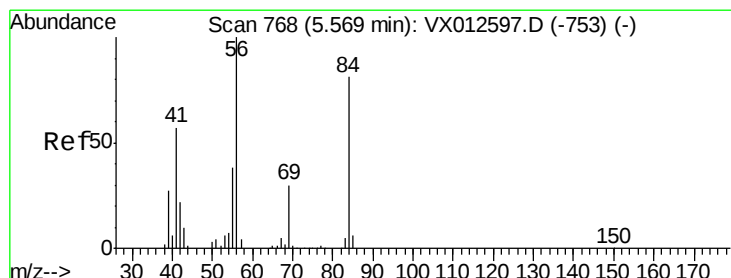
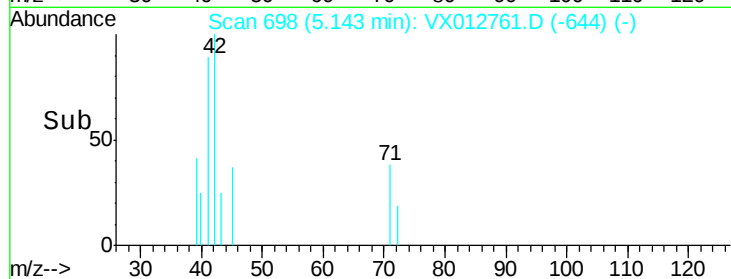
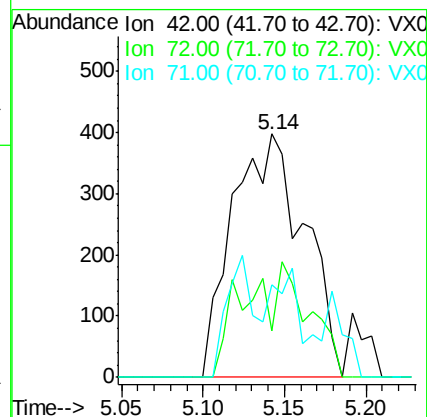
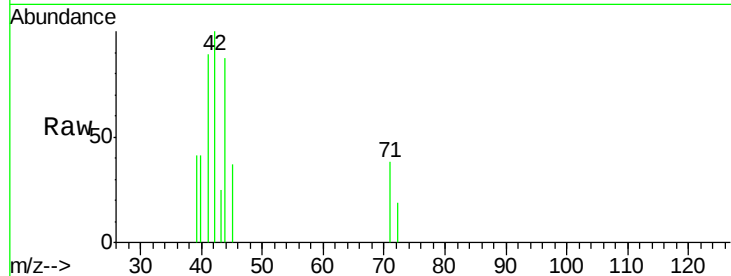
Tot Ion: 42 Resp: 1221

Ion Ratio Lower Upper

42 100

72 21.0 34.0 51.0#

71 19.5 31.5 47.3#



#31

Cyclohexane

Concen: 1.079 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.09 min

Lab File: VX012761.D

Acq: 02 Oct 2019 15:16

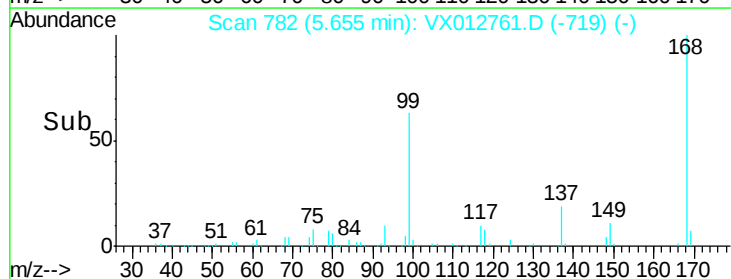
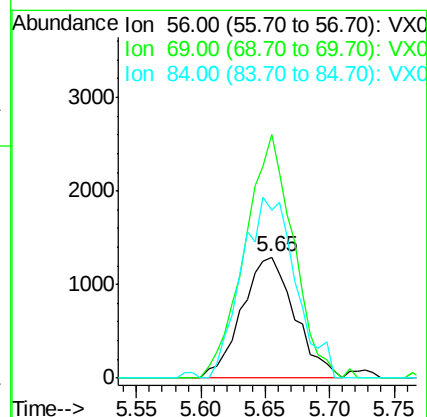
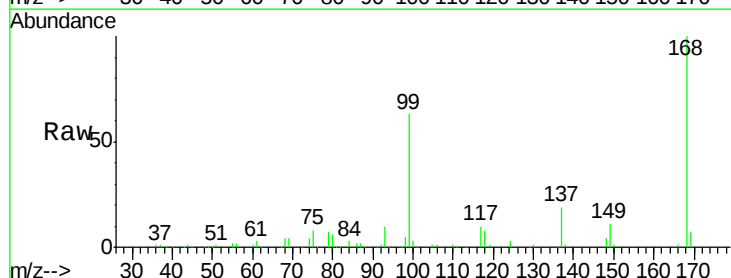
Tgt Ion: 56 Resp: 3693

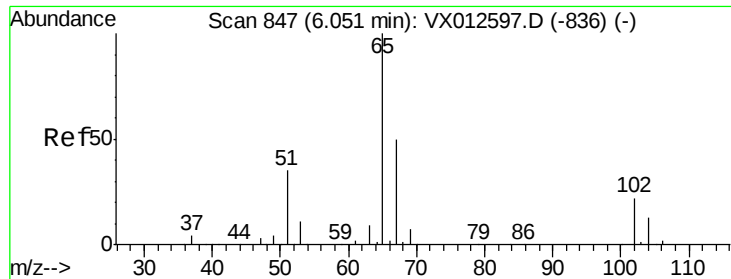
Ion Ratio Lower Upper

56 100

69 201.0 25.0 37.6#

84 139.0 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 47.766 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012761.D

Acq: 02 Oct 2019 15:16

Instrument :

MSVOA_X

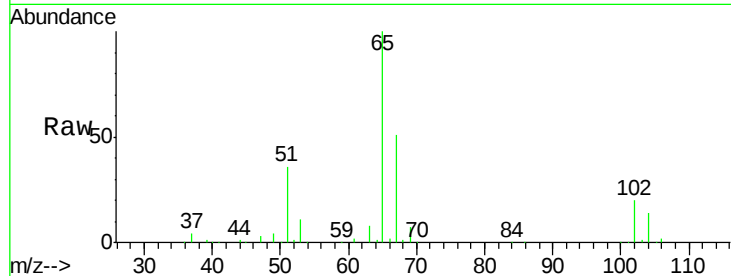
ClientSampled :

Tot Ion: 65 Resp: 117462

Ion Ratio Lower Upper

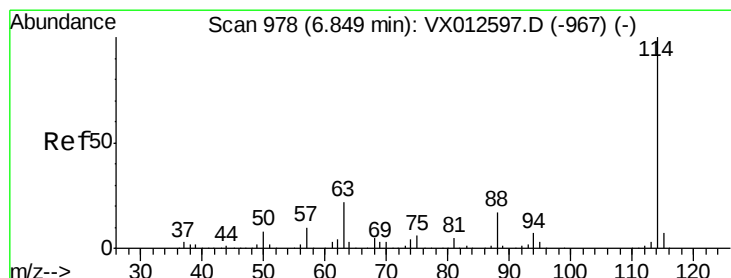
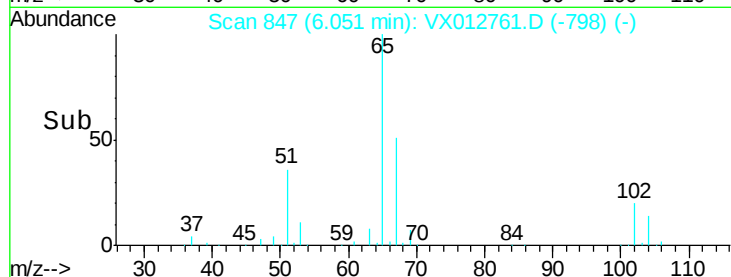
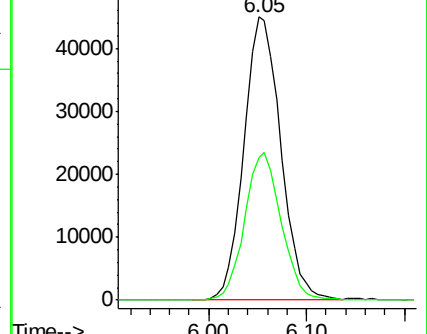
65 100

67 51.9 0.0 101.2



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: VX012761.D

Acq: 02 Oct 2019 15:16

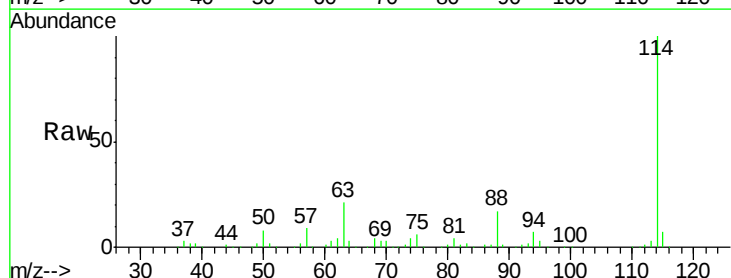
Tgt Ion: 114 Resp: 291833

Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.2

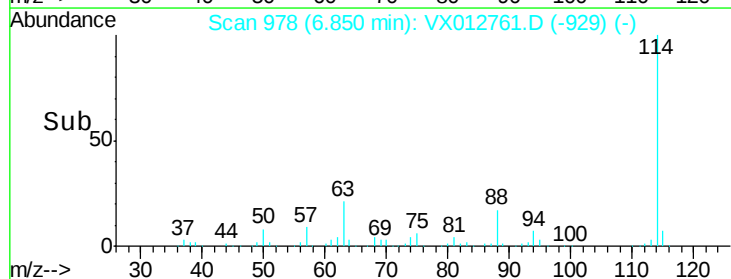
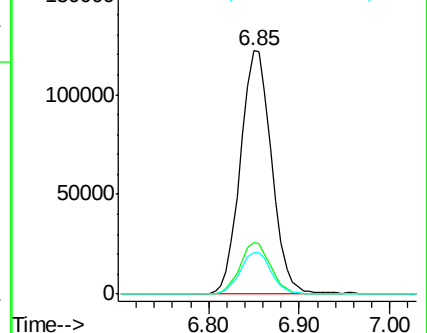
88 16.8 0.0 33.2

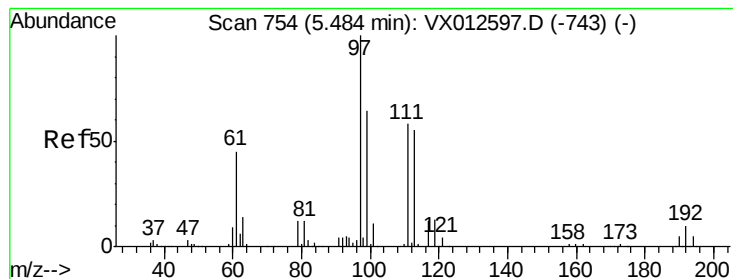


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.746 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012761.D

Acq: 02 Oct 2019 15:16

Instrument :

MSVOA_X

ClientSampleId :

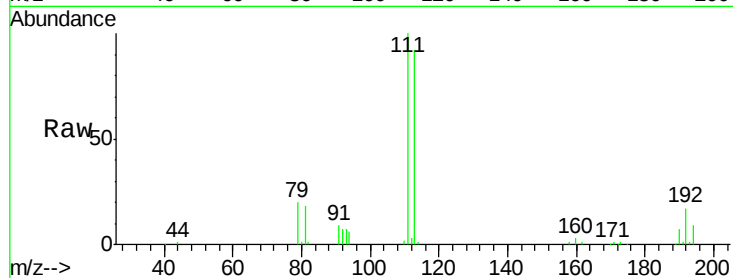
Tot Ion:113 Resp: 88196

Ion Ratio Lower Upper

113 100

111 103.7 83.4 125.2

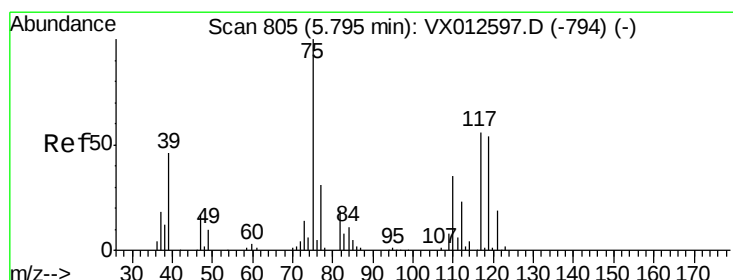
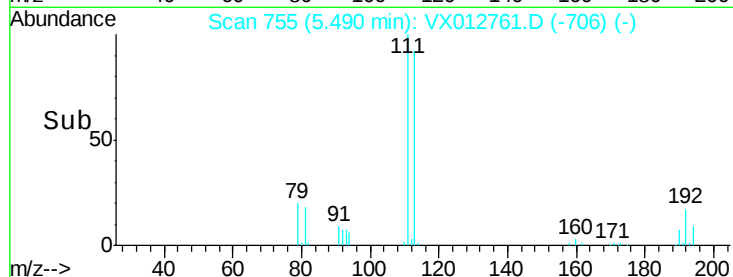
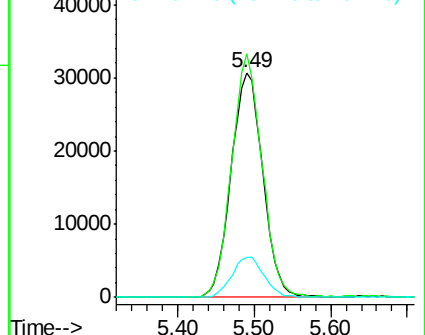
192 18.2 14.4 21.6



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: 4.817 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012761.D

Acq: 02 Oct 2019 15:16

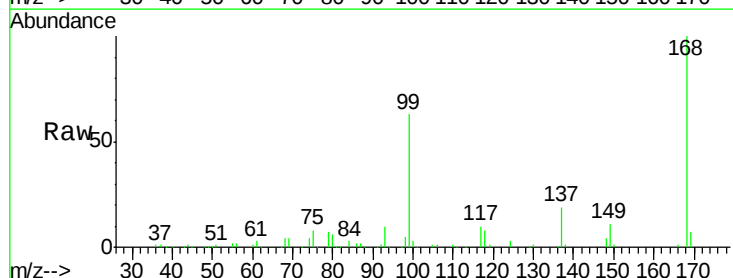
Tgt Ion: 75 Resp: 13550

Ion Ratio Lower Upper

75 100

110 9.0 16.7 50.0#

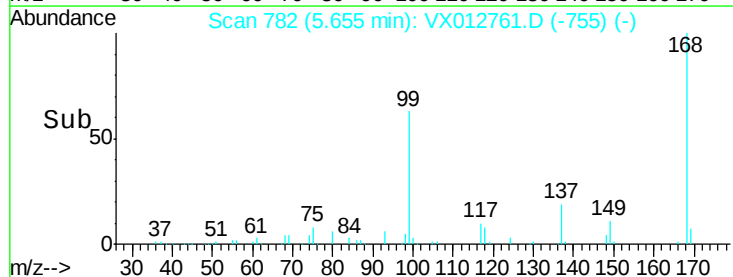
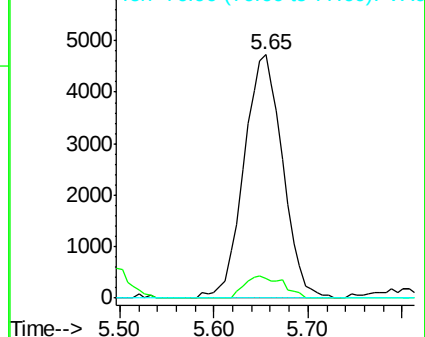
77 0.0 24.2 36.2#

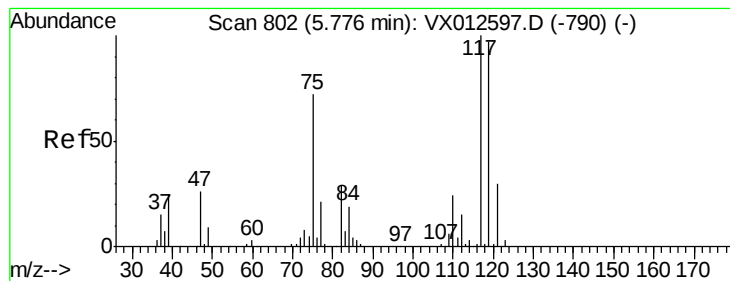


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.425 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

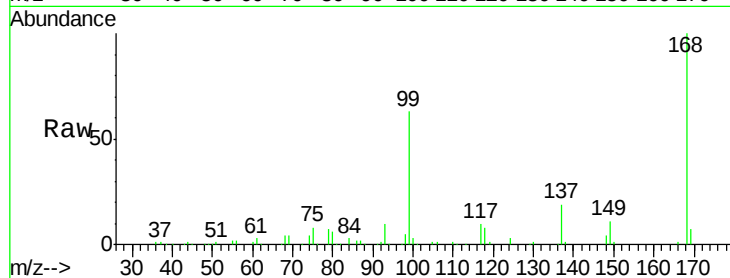
Lab File: VX012761.D

Acq: 02 Oct 2019 15:16

Instrument :

MSVOA_X

ClientSampled :



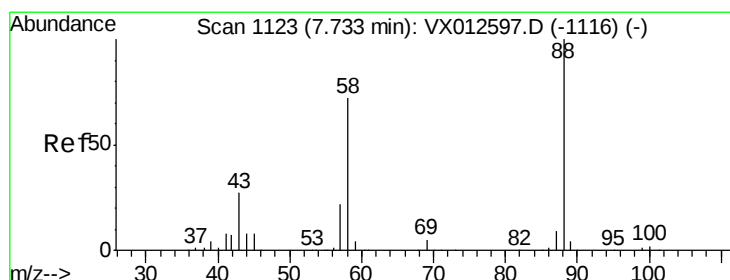
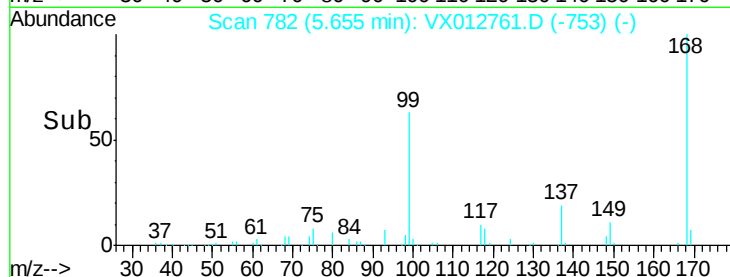
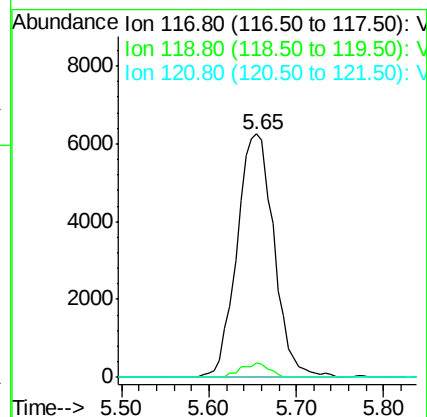
Tot Ion:117 Resp: 18358

Ion Ratio Lower Upper

117 100

119 6.0 75.7 113.5#

121 0.0 24.2 36.4#



#49

1,4-Dioxane

Concen: 0.334 ug/l

RT: 7.59 min Scan# 1099

Delta R.T. -0.15 min

Lab File: VX012761.D

Acq: 02 Oct 2019 15:16

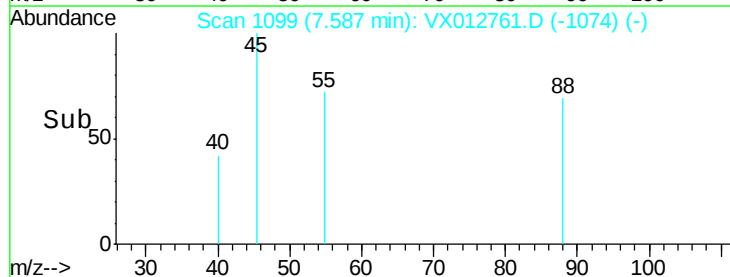
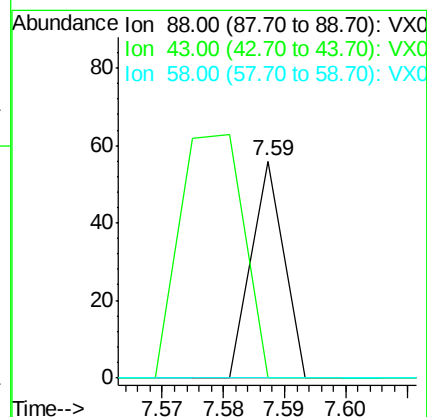
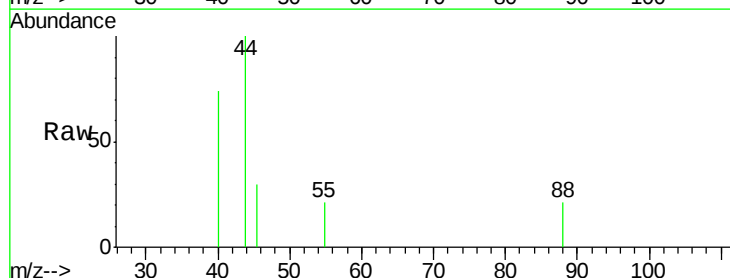
Tgt Ion: 88 Resp: 20

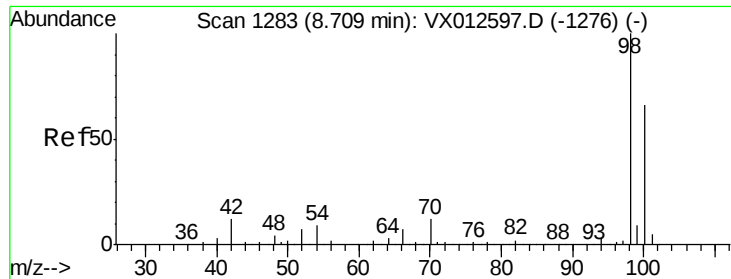
Ion Ratio Lower Upper

88 100

43 230.0 29.4 44.0#

58 0.0 57.5 86.3#

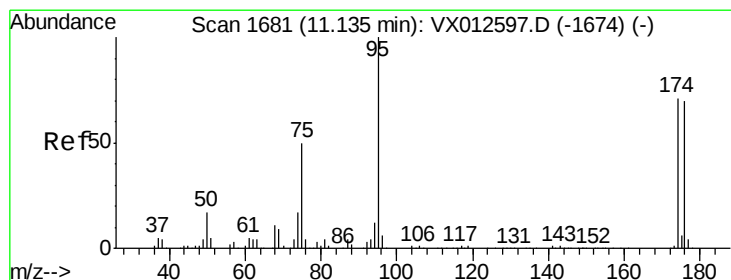
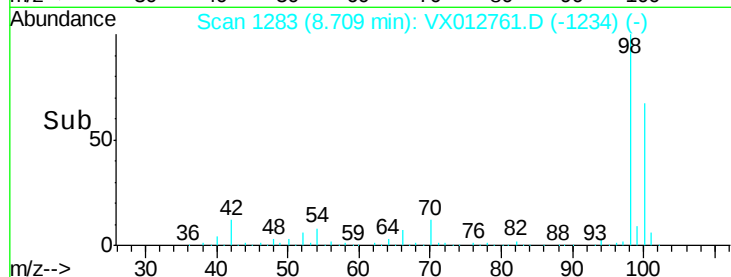
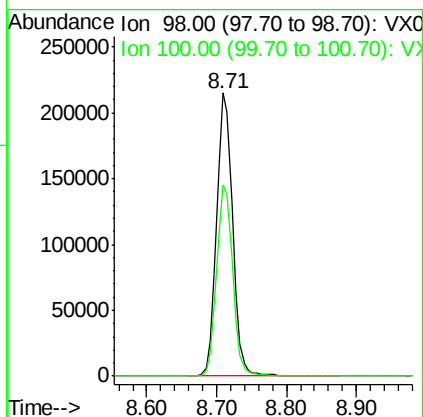
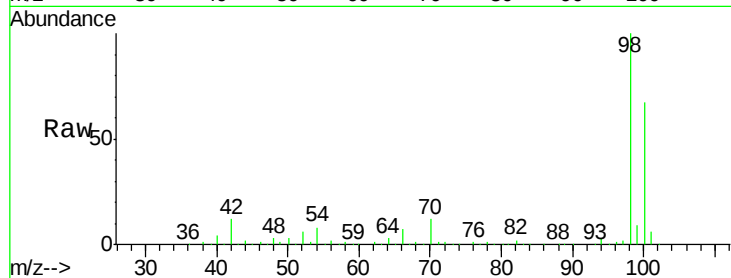




#50
Toluene-d8
Concen: 51.254 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012761.D
Acq: 02 Oct 2019 15:16

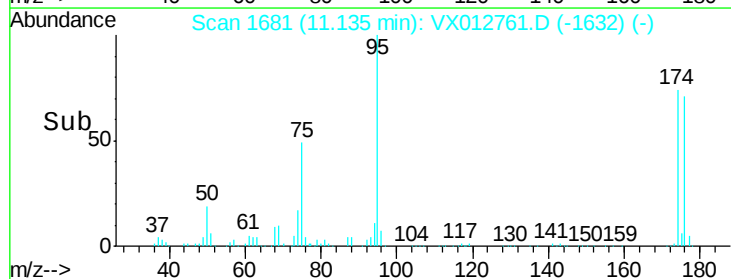
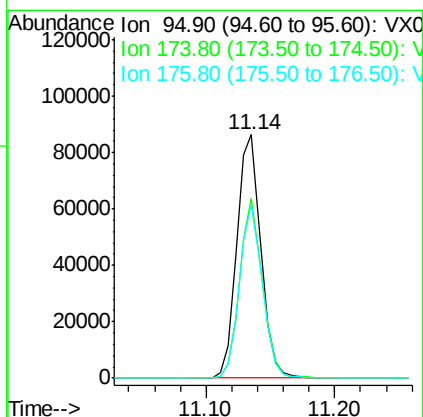
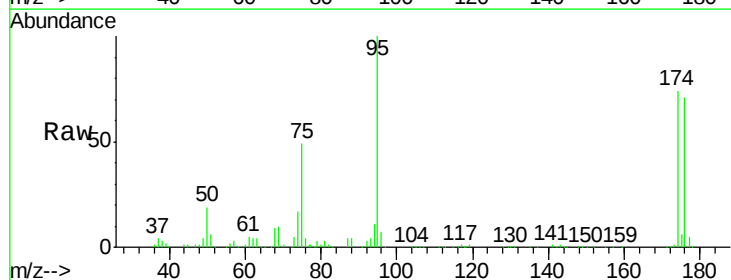
Instrument :
MSVOA_X
ClientSampleId :

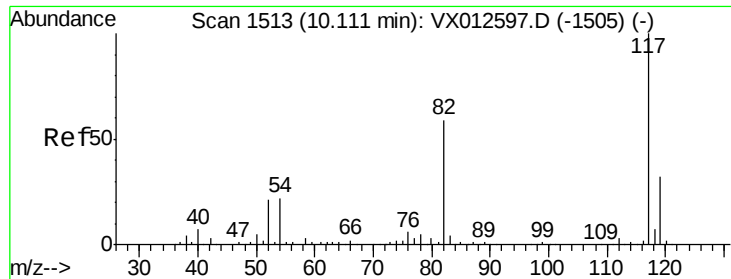
Tot Ion: 98 Resp: 343051
Ion Ratio Lower Upper
98 100
100 68.3 53.4 80.2



#62
4-Bromofluorobenzene
Concen: 42.455 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VX012761.D
Acq: 02 Oct 2019 15:16

Tgt Ion: 95 Resp: 111731
Ion Ratio Lower Upper
95 100
174 69.7 0.0 140.0
176 68.2 0.0 135.4

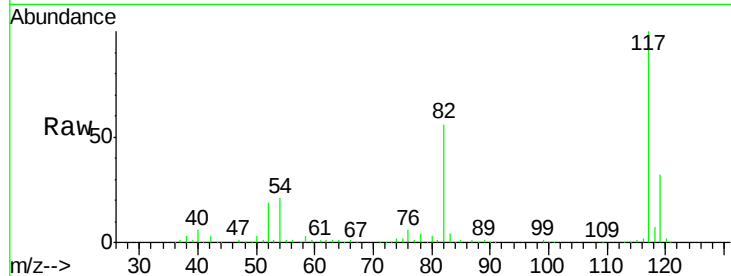




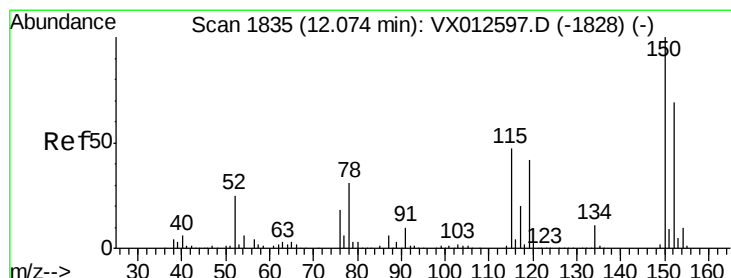
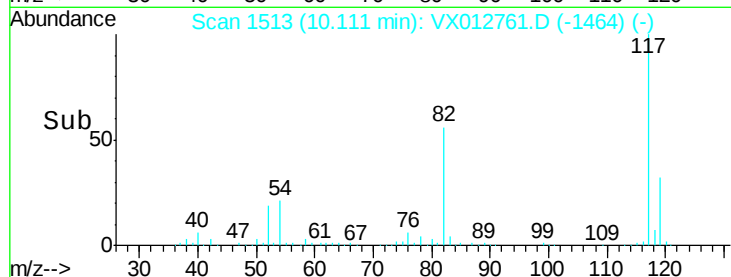
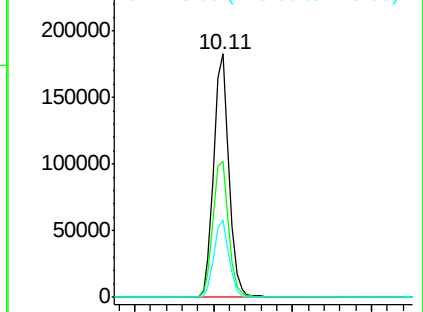
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012761.D
Acq: 02 Oct 2019 15:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 248414
Ion Ratio Lower Upper
117 100
82 55.9 45.9 68.9
119 31.9 25.3 37.9

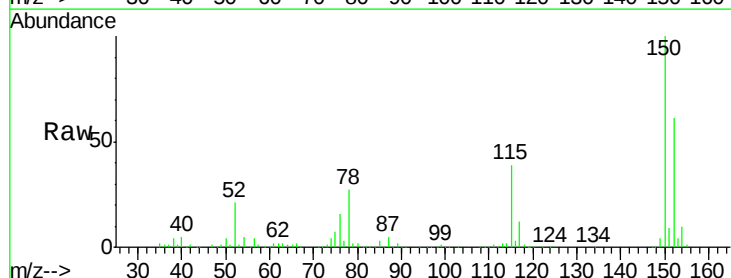


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

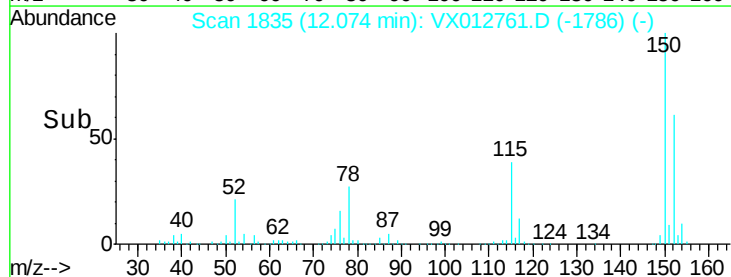
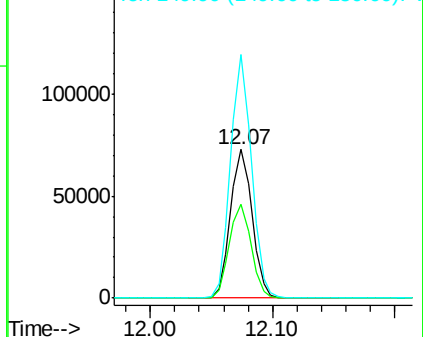


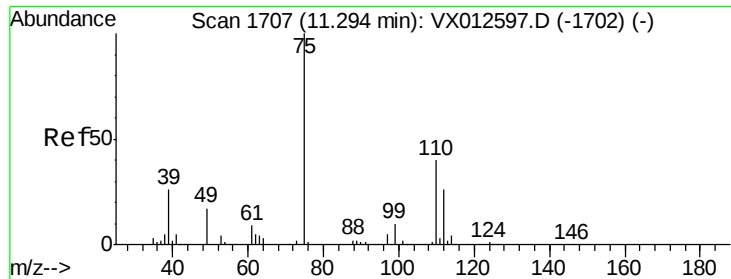
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX012761.D
Acq: 02 Oct 2019 15:16

Tgt Ion:152 Resp: 89108
Ion Ratio Lower Upper
152 100
115 63.8 44.1 132.3
150 158.2 0.0 343.8



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: 23.737 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012761.D

Acq: 02 Oct 2019 15:16

Instrument :

MSVOA_X

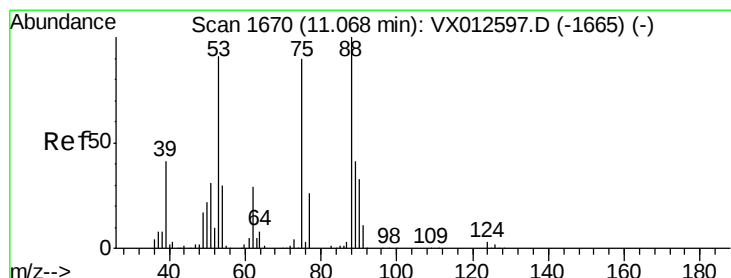
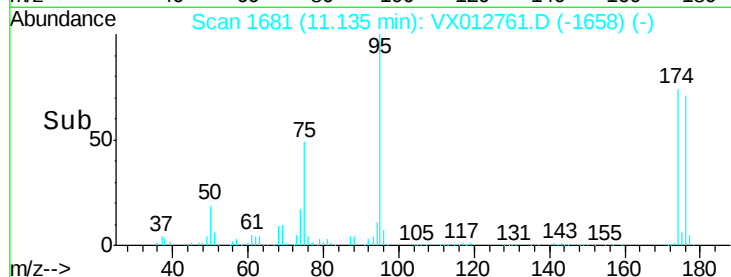
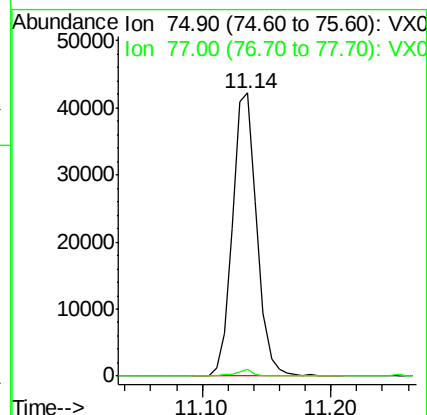
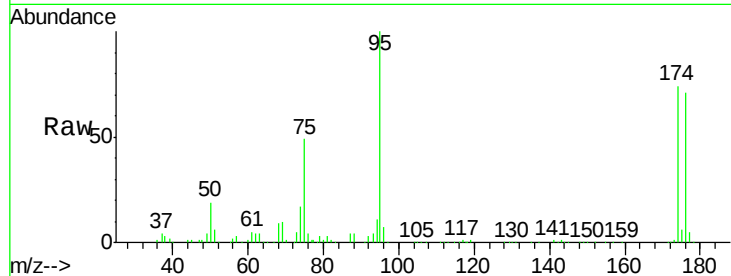
ClientSampleId :

Tot Ion: 75 Resp: 55950

Ion Ratio Lower Upper

75 100

77 1.6 19.7 59.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.024 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012761.D

Acq: 02 Oct 2019 15:16

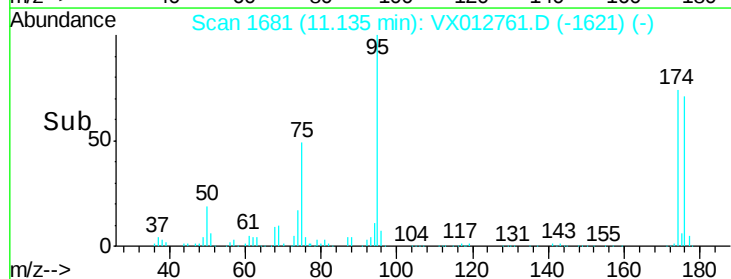
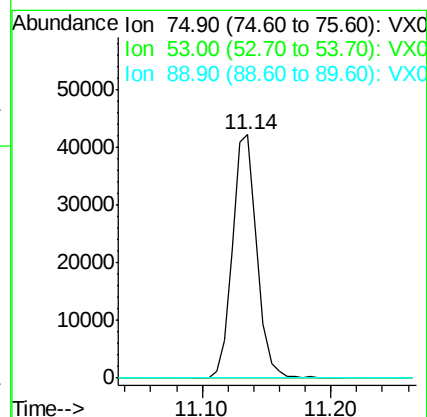
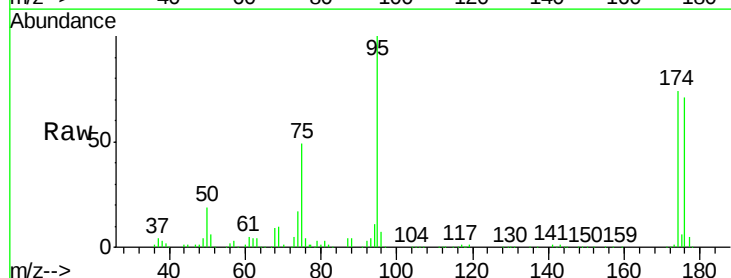
Tgt Ion: 75 Resp: 55950

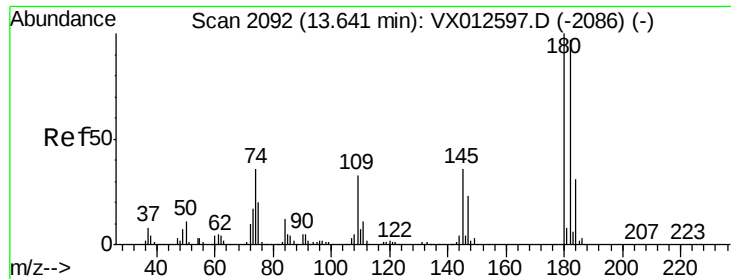
Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.0 36.3 54.5#

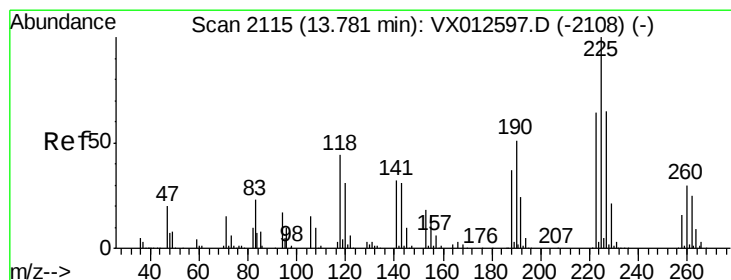
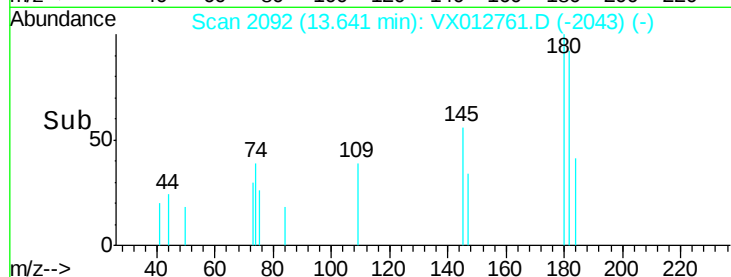
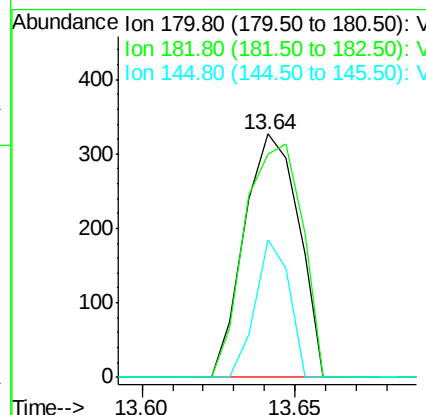
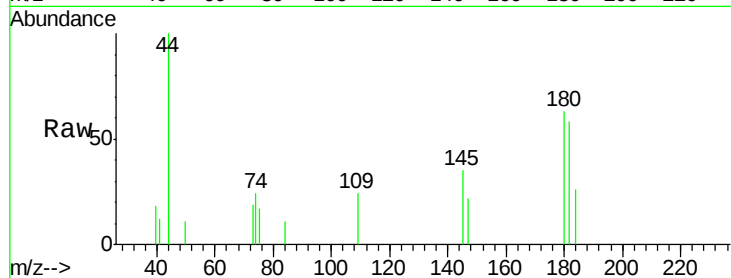




#93
 1,2,4-Trichlorobenzene
 Concen: 0.223 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. 0.00 min
 Lab File: VX012761.D
 Acq: 02 Oct 2019 15:16

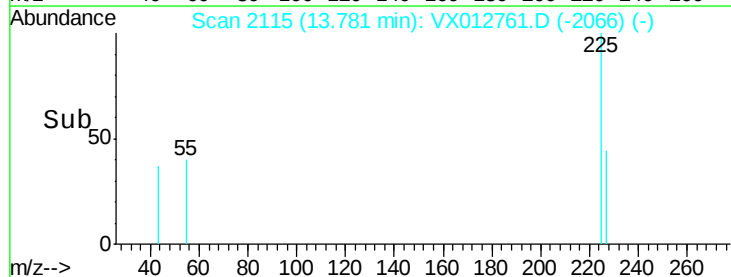
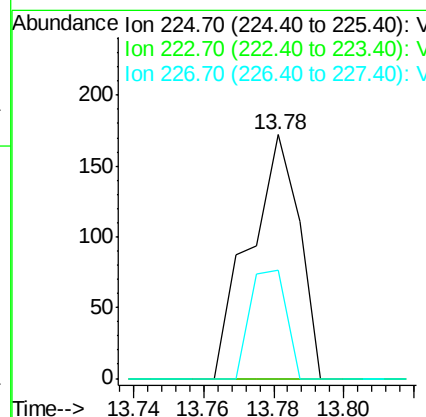
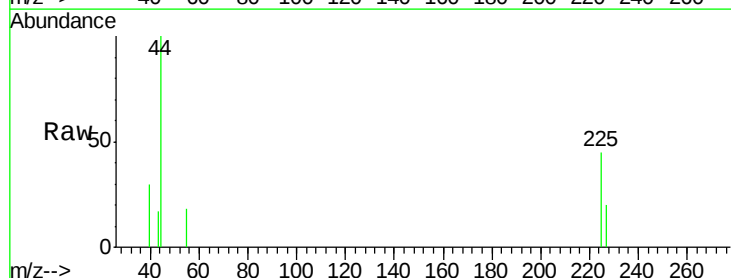
Instrument :
 MSVOA_X
 ClientSampled :

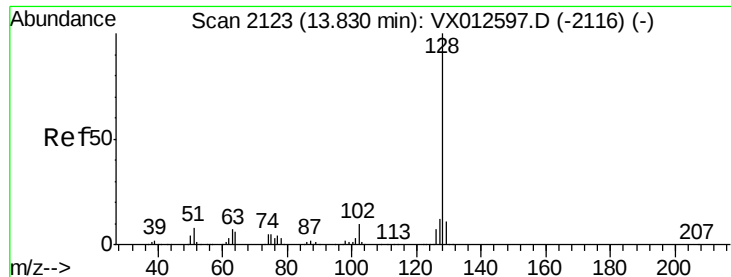
Tot Ion:180 Resp: 403
 Ion Ratio Lower Upper
 180 100
 182 101.5 47.0 141.0
 145 35.2 16.8 50.4



#94
 Hexachlorobutadiene
 Concen: 0.219 ug/l
 RT: 13.78 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VX012761.D
 Acq: 02 Oct 2019 15:16

Tgt Ion:225 Resp: 170
 Ion Ratio Lower Upper
 225 100
 223 0.0 32.0 96.2#
 227 32.4 31.9 95.5

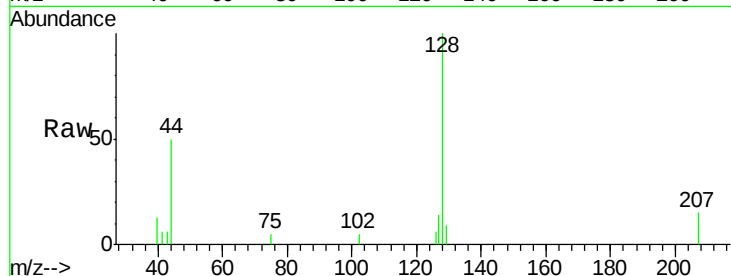




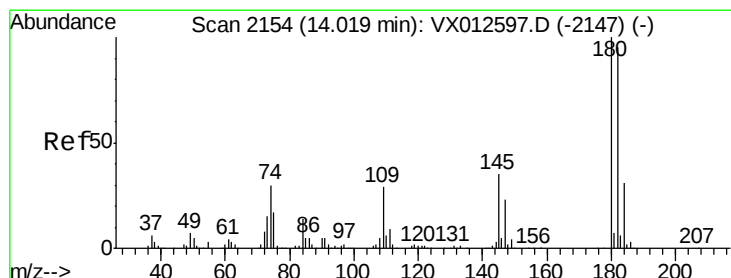
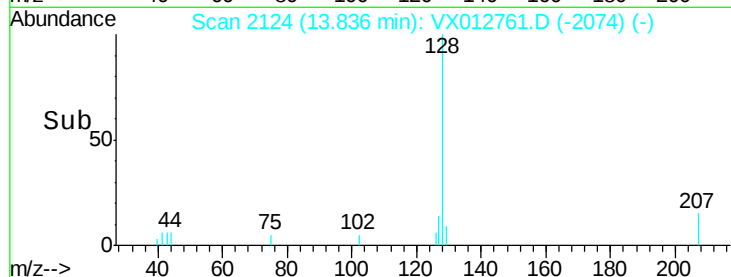
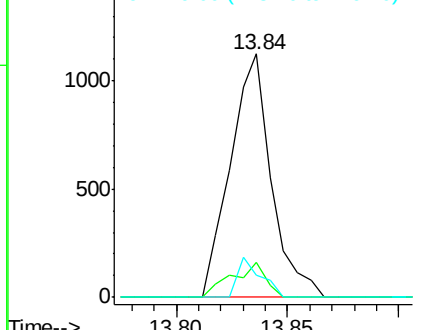
#95
Naphthalene
Concen: 0.220 ug/l
RT: 13.84 min Scan# 2124
Delta R.T. 0.01 min
Lab File: VX012761.D
Acq: 02 Oct 2019 15:16

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:128 Resp: 1437
Ion Ratio Lower Upper
128 100
127 11.9 10.2 15.4
129 9.2 8.8 13.2

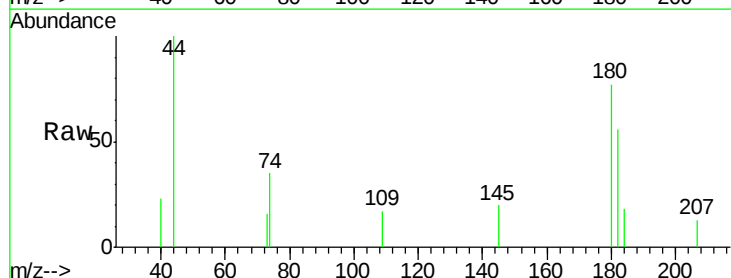


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 0.264 ug/l
RT: 14.01 min Scan# 2153
Delta R.T. 0.00 min
Lab File: VX012761.D
Acq: 02 Oct 2019 15:16

Tgt Ion:180 Resp: 478
Ion Ratio Lower Upper
180 100
182 99.2 47.1 141.3
145 21.3 18.0 54.0



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

