

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012720\
 Data File : VX014718.D
 Acq On : 27 Jan 2020 12:01
 Operator : JC/SP
 Sample : L1264-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

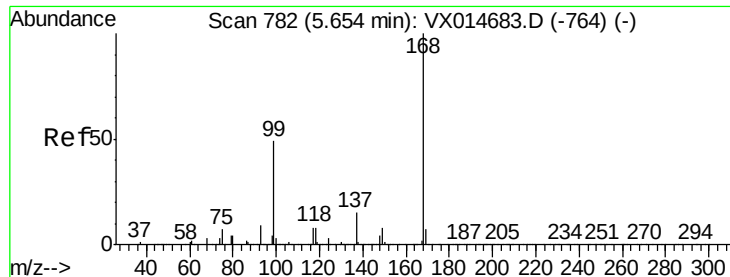
Quant Time: Jan 28 03:13:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X012220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 22 12:35:15 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	451994	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	711758	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	641662	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	292440	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	260810	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
35) Dibromofluoromethane	5.49	113	216671	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	
50) Toluene-d8	8.71	98	845228	48.95	ug/l	0.00
Spiked Amount			Recovery	=	97.90%	
62) 4-Bromofluorobenzene	11.13	95	284320	46.23	ug/l	0.00
Spiked Amount			Recovery	=	92.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	276	0.576	ug/l #	1
5) Bromomethane	1.64	94	1844	0.411	ug/l	95
6) Chloroethane	1.72	64	719	Below Cal	#	54
10) Methyl Iodide	2.51	142	2792	0.471	ug/l #	63
11) Tert butyl alcohol	3.00	59	988	0.834	ug/l #	3
13) Acrolein	2.26	56	461	0.493	ug/l	87
15) Acrylonitrile	3.14	53	625	0.228	ug/l #	45
16) Acetone	2.43	43	9522	3.440	ug/l	90
17) Carbon Disulfide	2.56	76	3537	0.288	ug/l #	86
20) Methylene Chloride	2.84	84	3304	0.617	ug/l #	85
25) 2-Butanone	4.63	43	891	0.215	ug/l #	62
29) Tetrahydrofuran	5.11	42	1665	0.677	ug/l #	43
36) 1,1-Dichloropropene	5.65	75	30892	4.671	ug/l #	52
38) Carbon Tetrachloride	5.65	117	39386	6.236	ug/l #	17
41) Methacrylonitrile	5.01	41	392	Below Cal	#	28
49) 1,4-Dioxane	7.74	88	105	0.836	ug/l #	1
51) 4-Methyl-2-Pentanone	8.64	43	2458	0.314	ug/l #	36
56) Ethyl methacrylate	9.20	69	590	1.850	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.34	63	1120	0.433	ug/l #	82
76) 1,2,3-Trichloropropane	11.13	75	142175	20.896	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	142175	59.467	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.64	180	1689	0.266	ug/l #	74
95) Naphthalene	13.83	128	3050	1.078	ug/l #	67
96) 1,2,3-Trichlorobenzene	14.02	180	1490	0.232	ug/l	86

(#) = 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. 0.00 min

Lab File: VX014718.D

Acq: 27 Jan 2020 12:01

Instrument :

MSVOA_X

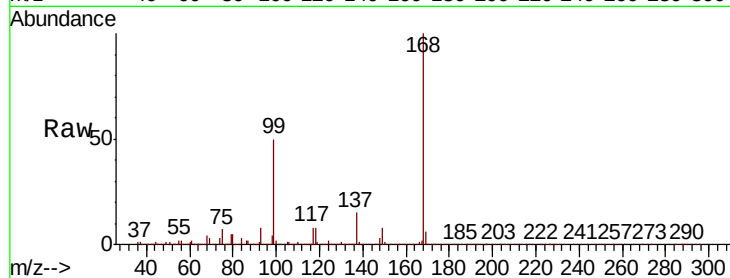
ClientSampleId :

Tot Ion:168 Resp: 451994

Ion Ratio Lower Upper

168 100

99 50.2 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

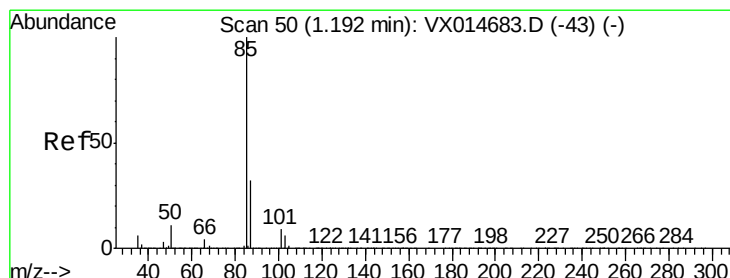
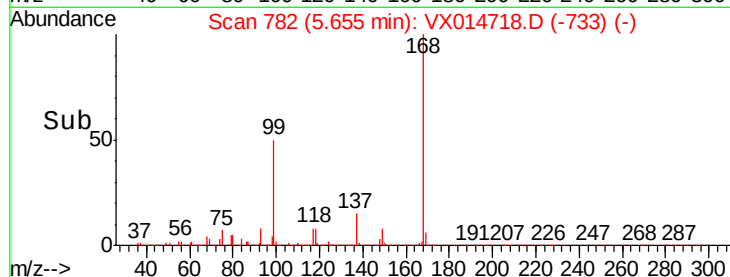
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.576 ug/l

RT: 1.19 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX014718.D

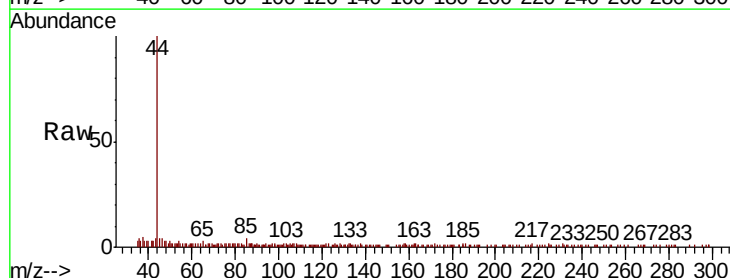
Acq: 27 Jan 2020 12:01

Tgt Ion: 85 Resp: 276

Ion Ratio Lower Upper

85 100

87 95.3 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

500

400

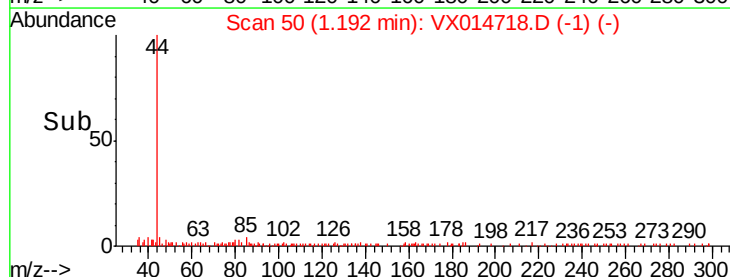
300

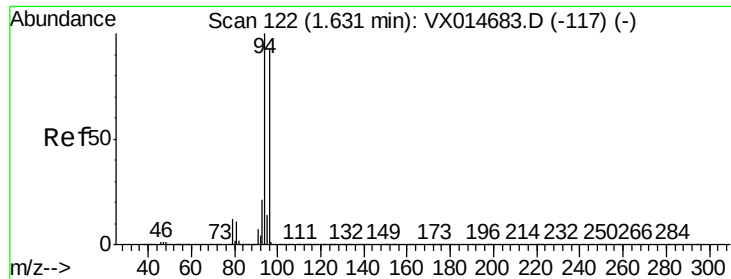
200

100

0

Time-->





#5

Bromomethane

Concen: 0.411 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX014718.D

Acq: 27 Jan 2020 12:01

Instrument :

MSVOA_X

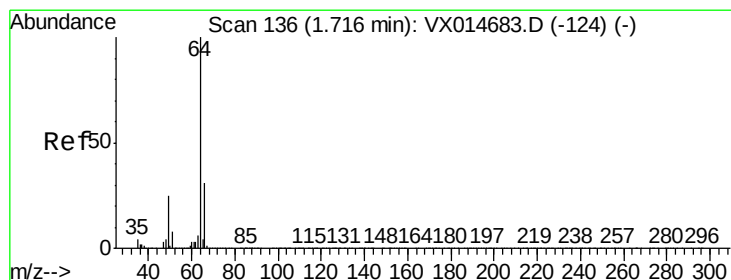
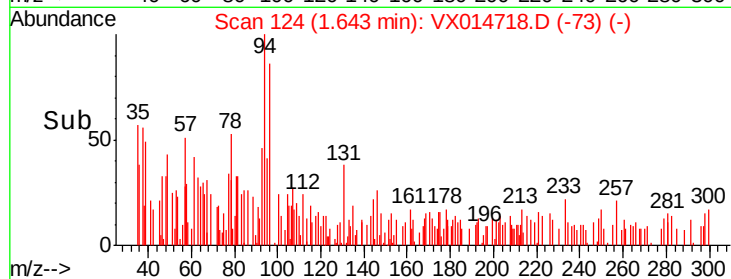
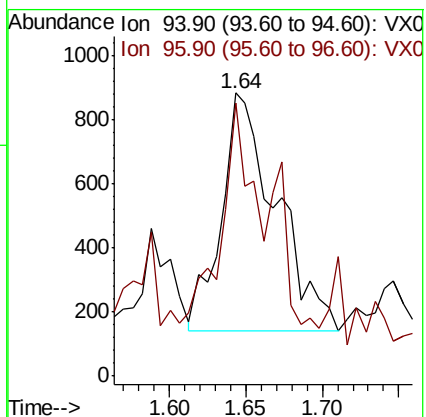
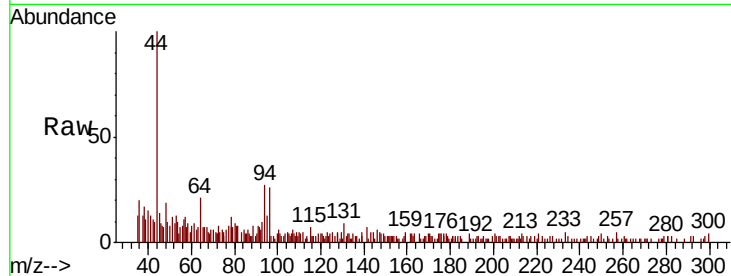
ClientSampleId :

Tot Ion: 94 Resp: 1844

Ion Ratio Lower Upper

94 100

96 88.7 74.7 112.1



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 137

Delta R.T. 0.01 min

Lab File: VX014718.D

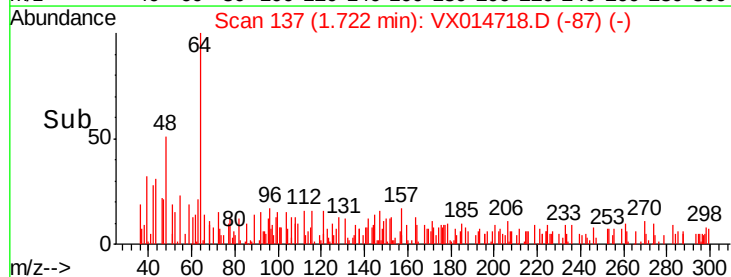
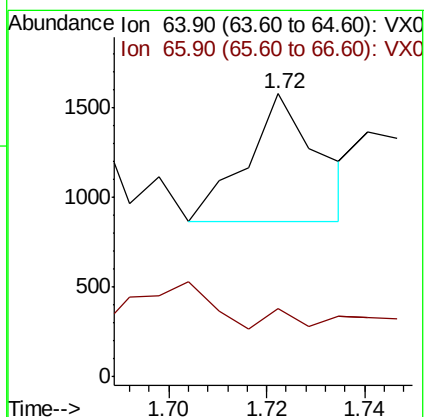
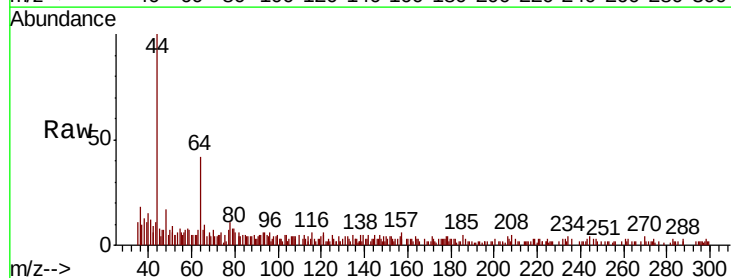
Acq: 27 Jan 2020 12:01

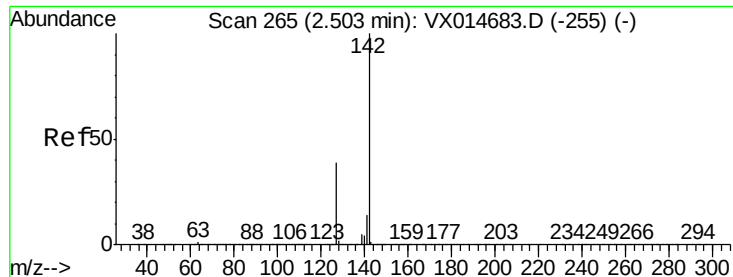
Tgt Ion: 64 Resp: 719

Ion Ratio Lower Upper

64 100

66 5.9 25.2 37.8#

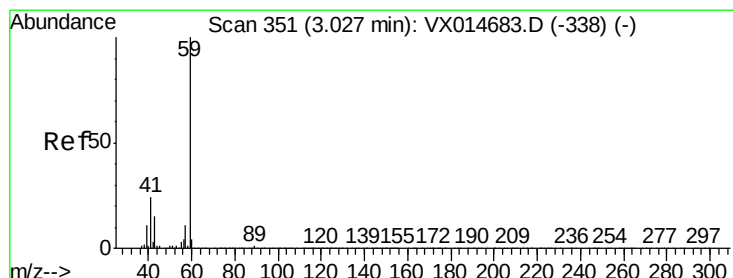
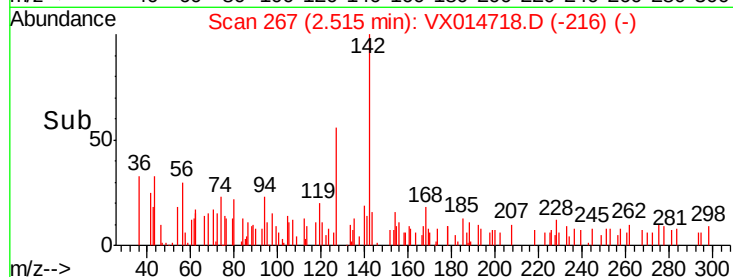
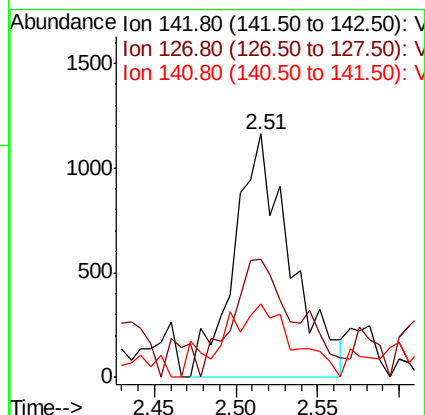
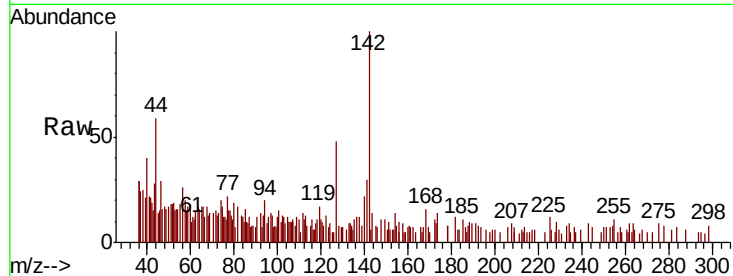




#10
Methvl Iodide
Concen: 0.471 ug/l
RT: 2.51 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX014718.D
Acq: 27 Jan 2020 12:01

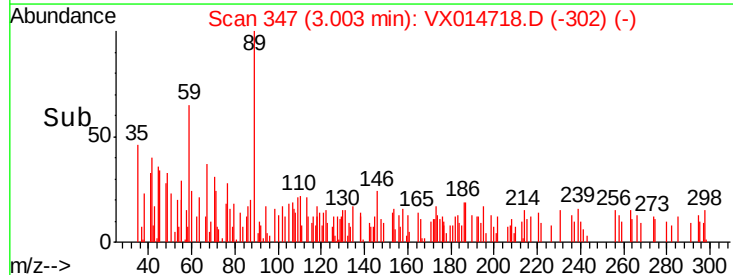
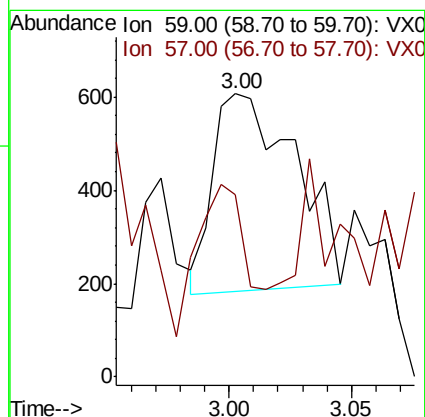
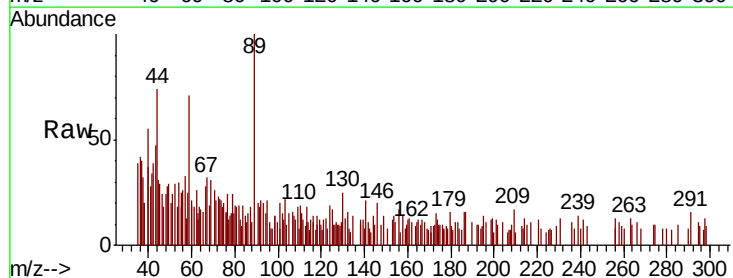
Instrument :
MSVOA_X
ClientSampleId :

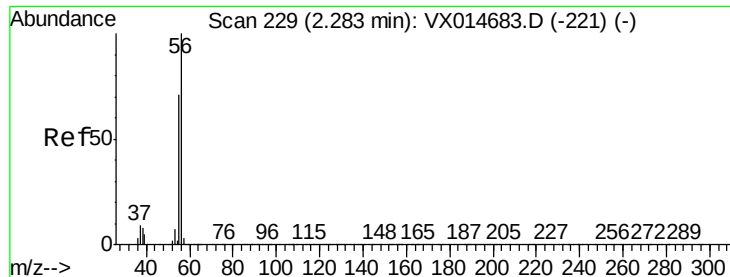
Tot Ion:142 Resp: 2792
Ion Ratio Lower Upper
142 100
127 56.3 31.1 46.7#
141 38.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: 0.834 ug/l
RT: 3.00 min Scan# 347
Delta R.T. -0.02 min
Lab File: VX014718.D
Acq: 27 Jan 2020 12:01

Tgt Ion: 59 Resp: 988
Ion Ratio Lower Upper
59 100
57 46.7 8.3 12.5#





#13

Acrolein

Concen: 0.493 ug/l

RT: 2.26 min Scan# 226

Delta R.T. -0.02 min

Lab File: VX014718.D

Acq: 27 Jan 2020 12:01

Instrument :

MSVOA_X

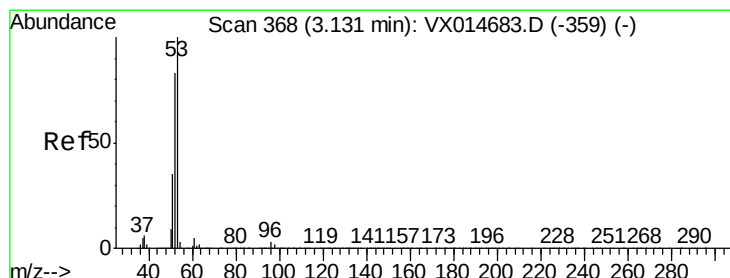
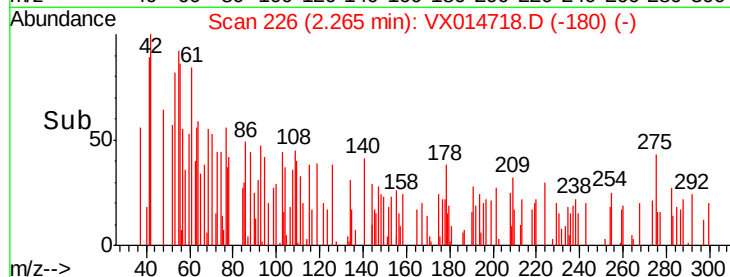
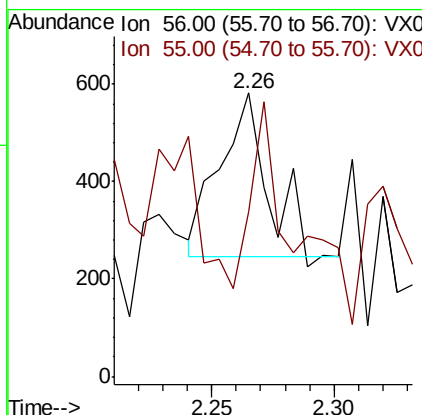
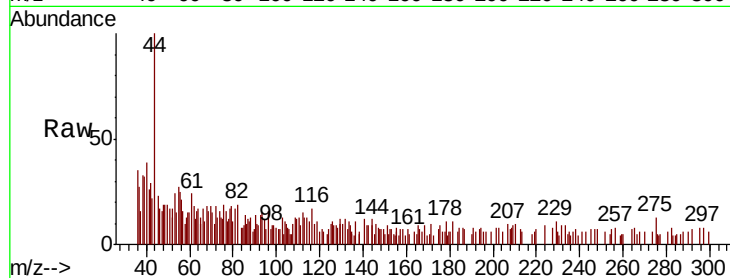
ClientSampled :

Tot Ion: 56 Resp: 461

Ion Ratio Lower Upper

56 100

55 59.9 56.6 84.8



#15

Acrylonitrile

Concen: 0.228 ug/l

RT: 3.14 min Scan# 370

Delta R.T. 0.01 min

Lab File: VX014718.D

Acq: 27 Jan 2020 12:01

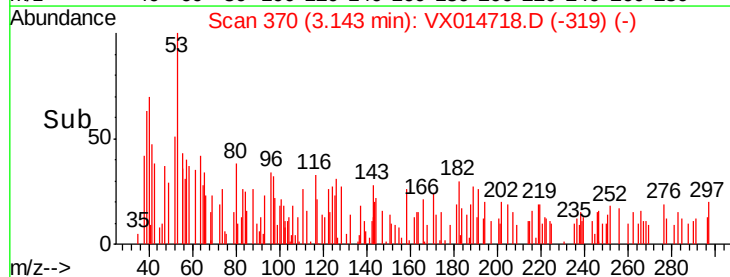
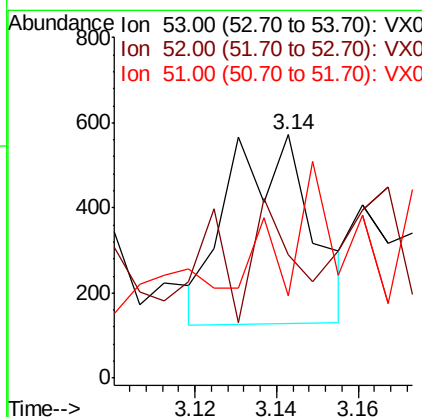
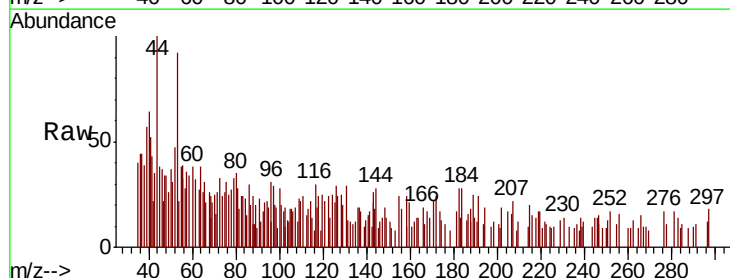
Tgt Ion: 53 Resp: 625

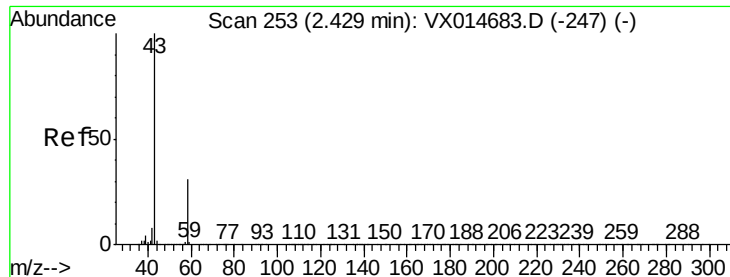
Ion Ratio Lower Upper

53 100

52 32.2 66.4 99.6#

51 65.6 28.7 43.1#





#16

Acetone

Concen: 3.440 ug/l

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014718.D

Acq: 27 Jan 2020 12:01

Instrument :

MSVOA_X

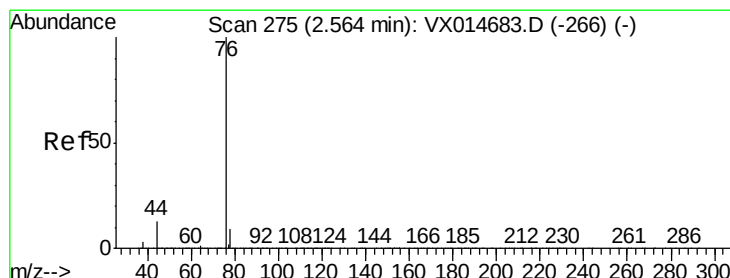
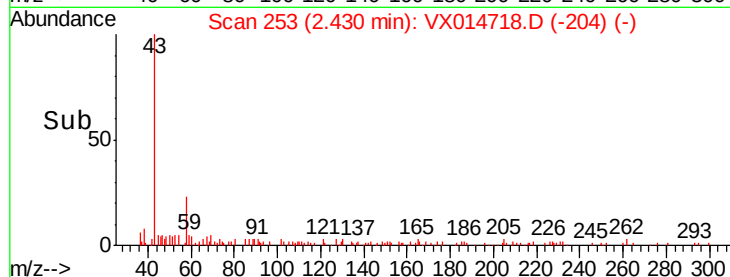
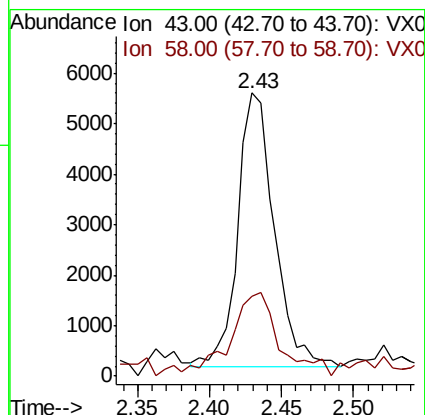
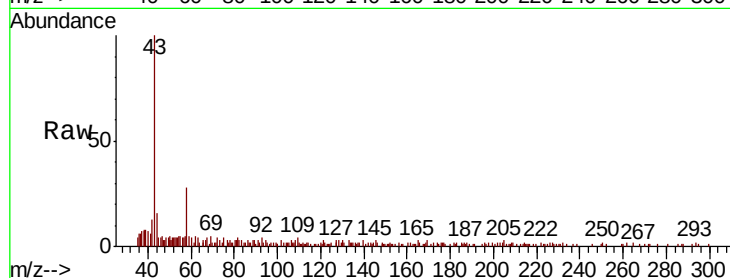
ClientSampleId :

Tot Ion: 43 Resp: 9522

Ion Ratio Lower Upper

43 100

58 25.0 24.5 36.7



#17

Carbon Disulfide

Concen: 0.288 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.00 min

Lab File: VX014718.D

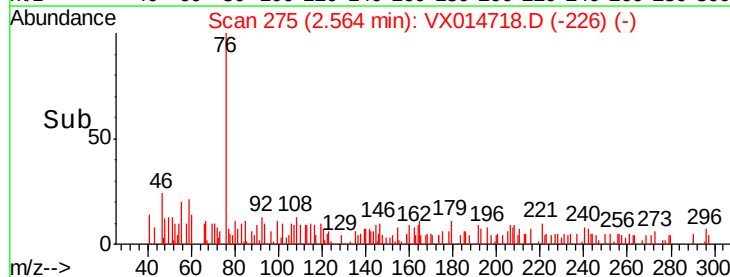
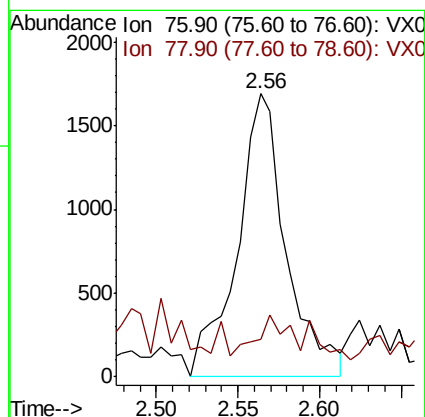
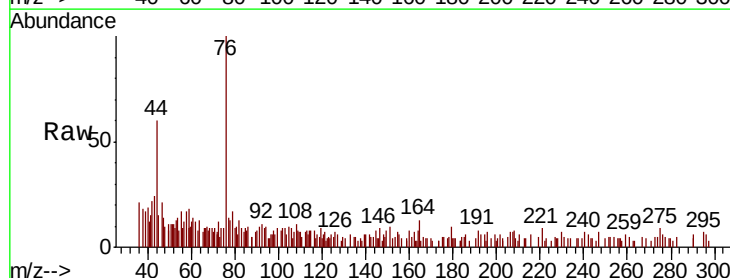
Acq: 27 Jan 2020 12:01

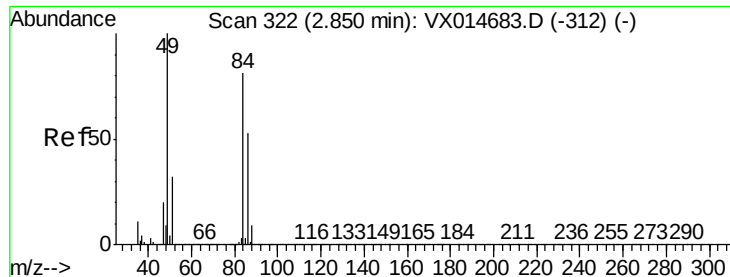
Tgt Ion: 76 Resp: 3537

Ion Ratio Lower Upper

76 100

78 3.9 7.2 10.8#

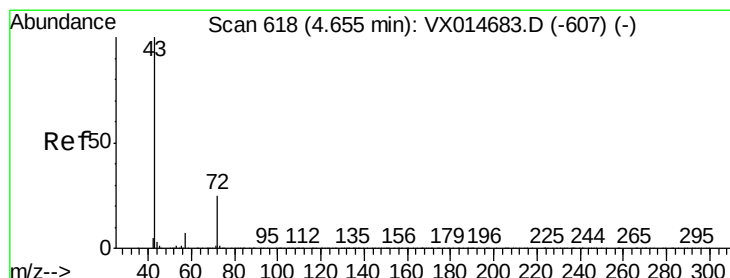
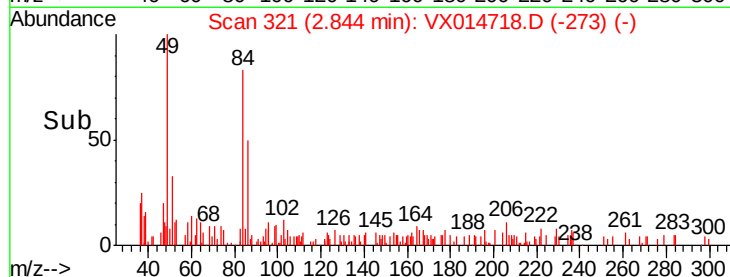
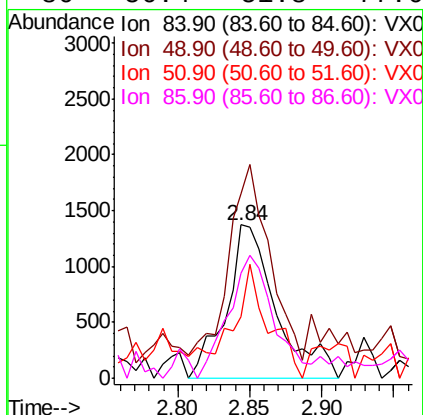
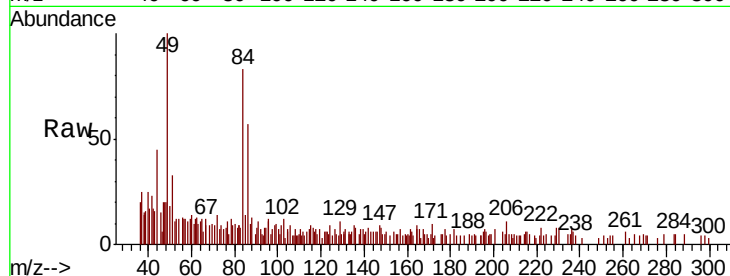




#20
Methylene Chloride
Concen: 0.617 ug/l
RT: 2.84 min Scan# 321
Delta R.T. -0.01 min
Lab File: VX014718.D
Acq: 27 Jan 2020 12:01

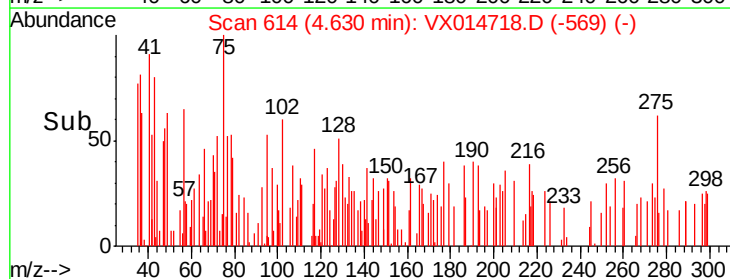
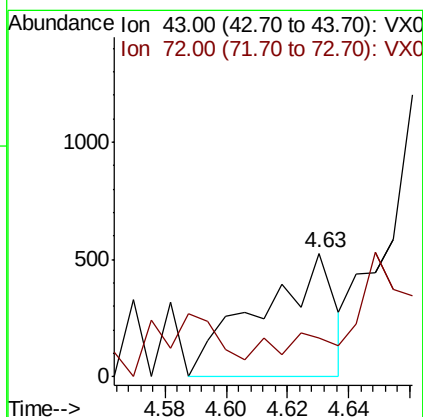
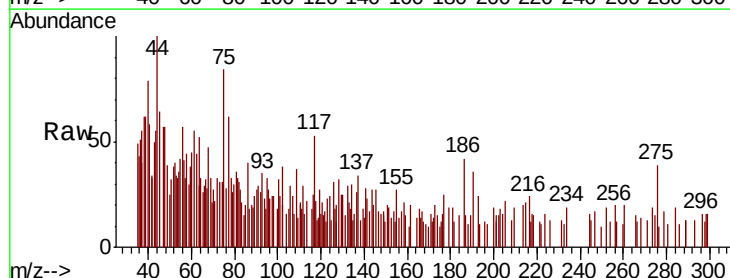
Instrument :
MSVOA_X
ClientSampleId :

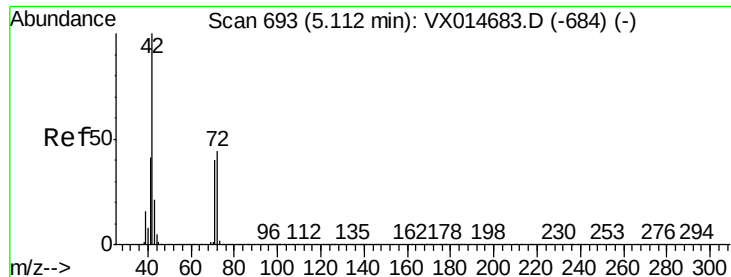
Tot Ion: 84 Resp: 3304
Ion Ratio Lower Upper
84 100
49 105.3 98.2 147.4
51 25.8 31.3 46.9#
86 56.4 51.8 77.6



#25
2-Butanone
Concen: 0.215 ug/l
RT: 4.63 min Scan# 614
Delta R.T. -0.02 min
Lab File: VX014718.D
Acq: 27 Jan 2020 12:01

Tgt Ion: 43 Resp: 891
Ion Ratio Lower Upper
43 100
72 5.7 19.9 29.9#

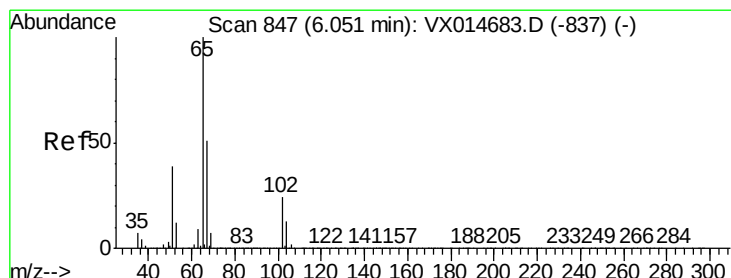
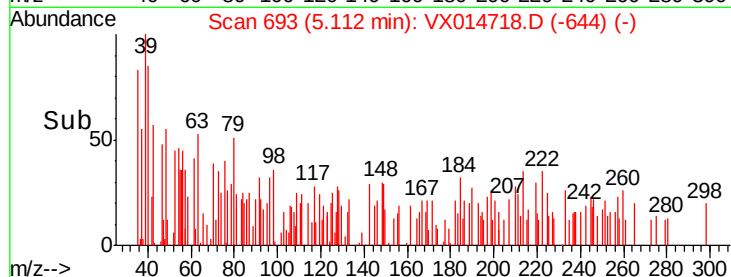
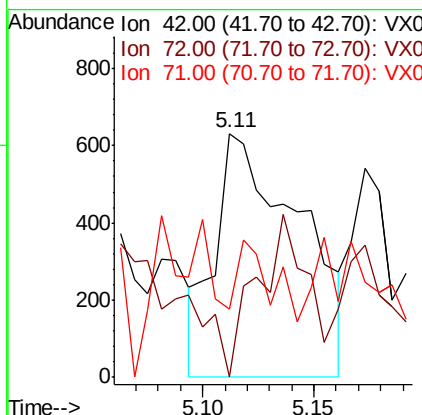
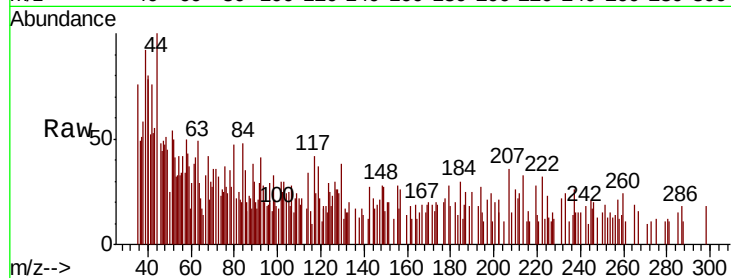




#29
Tetrahydrofuran
Concen: 0.677 ug/l
RT: 5.11 min Scan# 693
Delta R.T. 0.00 min
Lab File: VX014718.D
Acq: 27 Jan 2020 12:01

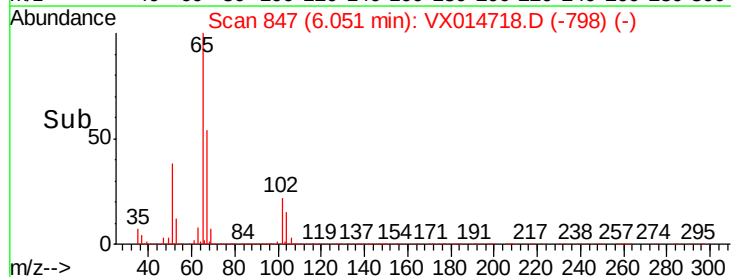
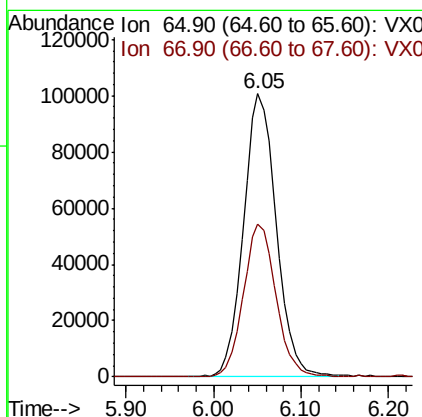
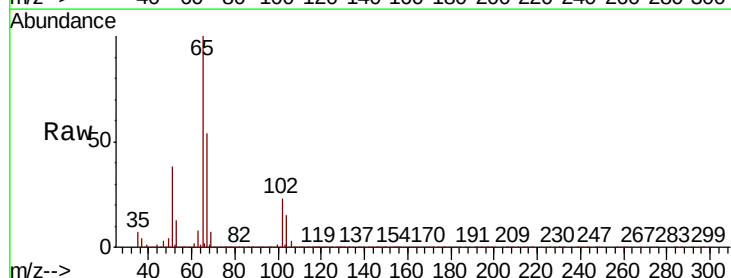
Instrument :
MSVOA_X
ClientSampleId :

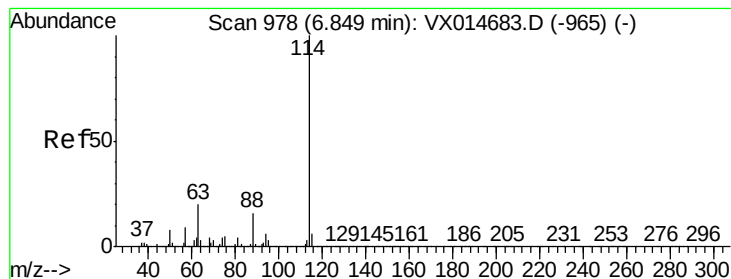
Tot Ion: 42 Resp: 1665
Ion Ratio Lower Upper
42 100
72 0.0 35.3 52.9#
71 12.4 33.1 49.7#



#33
1,2-Dichloroethane-d4
Concen: 49.412 ug/l
RT: 6.05 min Scan# 847
Delta R.T. 0.00 min
Lab File: VX014718.D
Acq: 27 Jan 2020 12:01

Tgt Ion: 65 Resp: 260810
Ion Ratio Lower Upper
65 100
67 54.1 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: VX014718.D

Acq: 27 Jan 2020 12:01

Instrument :

MSVOA_X

ClientSampleId :

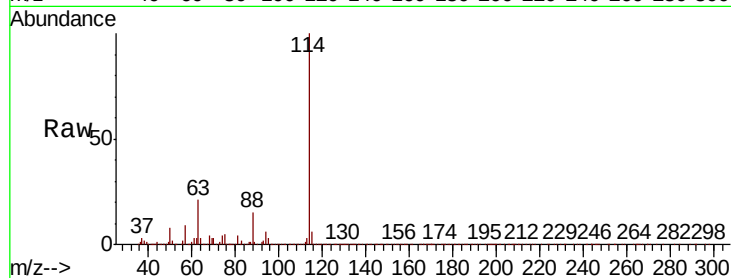
Tot Ion:114 Resp: 711758

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.6

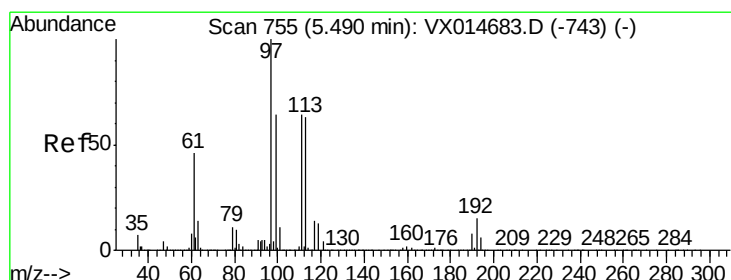
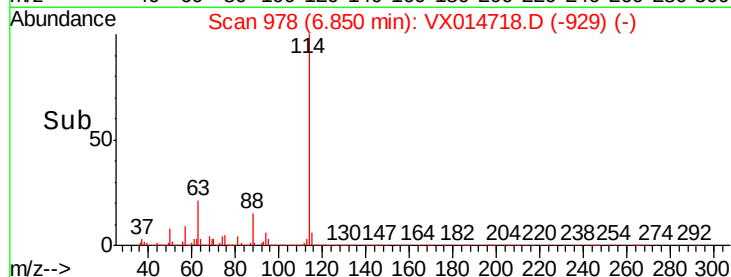
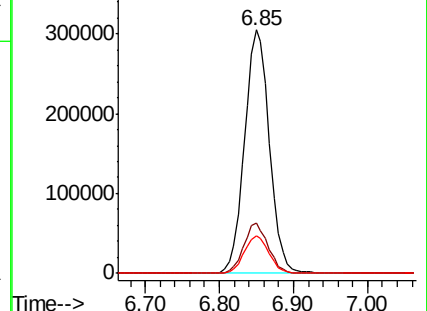
88 15.3 0.0 31.2



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: 48.244 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014718.D

Acq: 27 Jan 2020 12:01

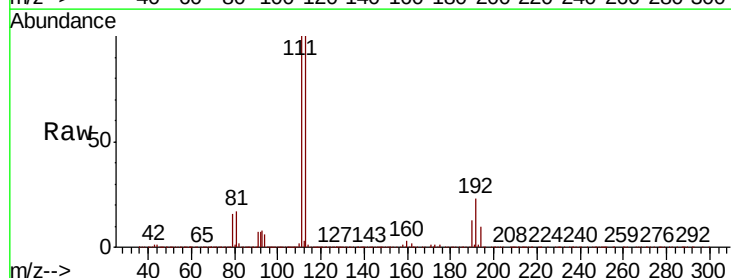
Tgt Ion:113 Resp: 216671

Ion Ratio Lower Upper

113 100

111 103.1 80.7 121.1

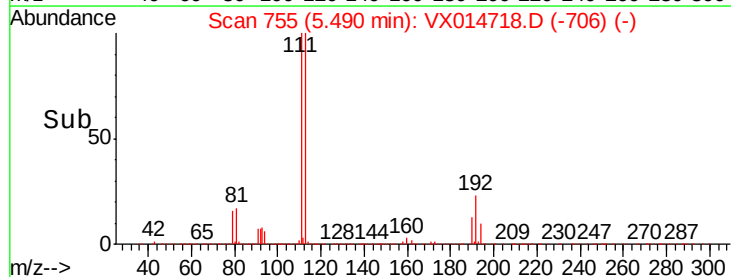
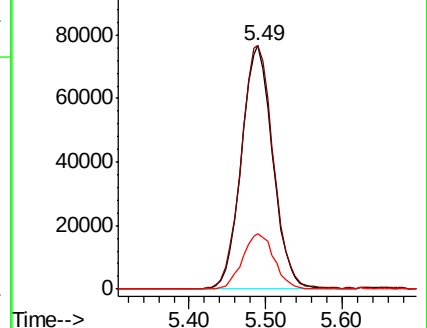
192 23.4 18.5 27.7

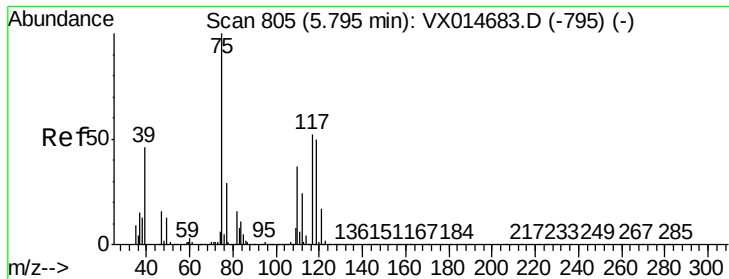


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

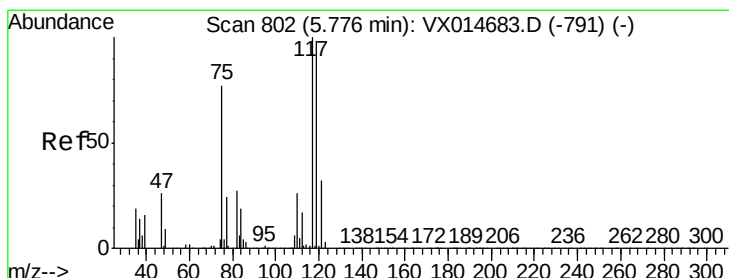
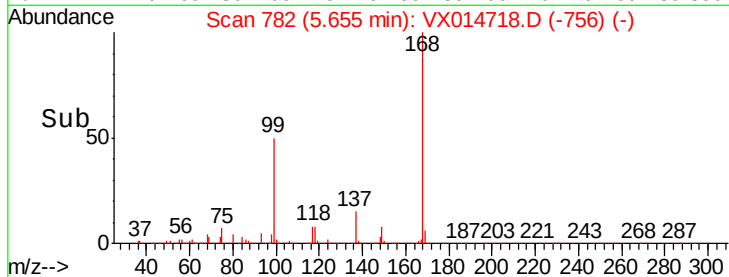
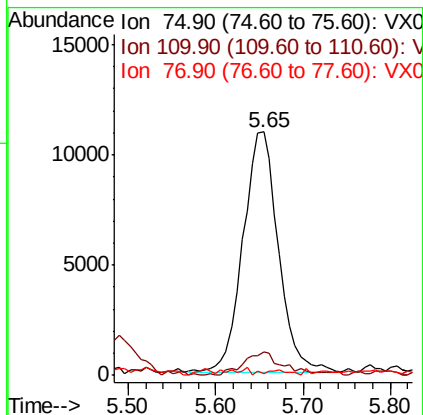
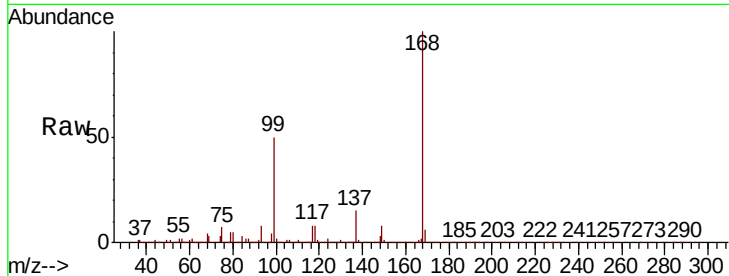




#36
 1,1-Dichloropropene
 Concen: 4.671 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.14 min
 Lab File: VX014718.D
 Acq: 27 Jan 2020 12:01

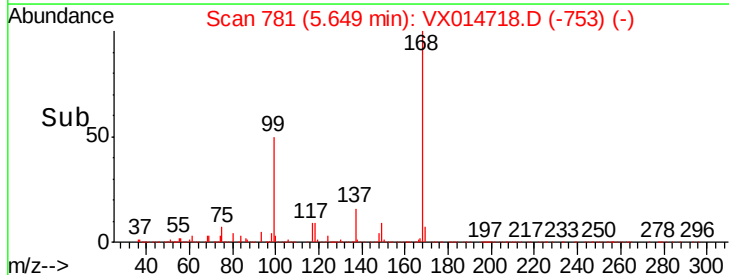
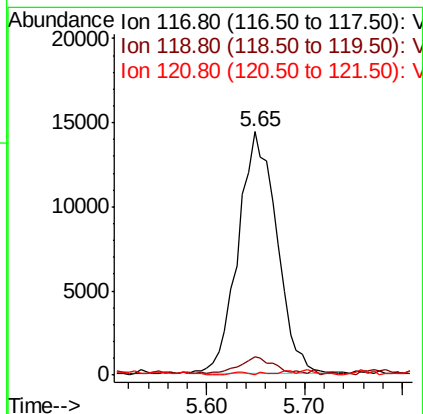
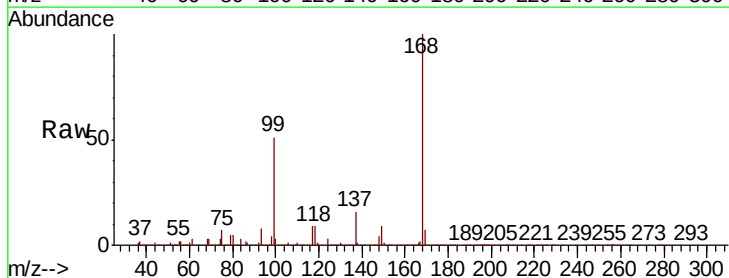
Instrument :
 MSVOA_X
 ClientSampleId :

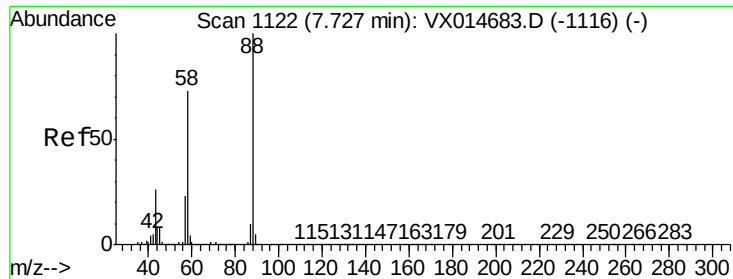
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.6	17.9	53.7#
77	1.2	24.1	36.1#



#38
 Carbon Tetrachloride
 Concen: 6.236 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.13 min
 Lab File: VX014718.D
 Acq: 27 Jan 2020 12:01

Tgt Ion	Ratio	Lower	Upper
117	100		
119	7.1	77.9	116.9#
121	0.0	25.4	38.2#





#49

1,4-Dioxane

Concen: 0.836 ug/l

RT: 7.74 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VX014718.D

Acq: 27 Jan 2020 12:01

Instrument :

MSVOA_X

ClientSampleId :

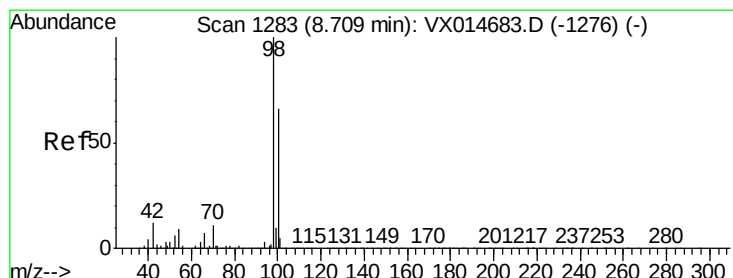
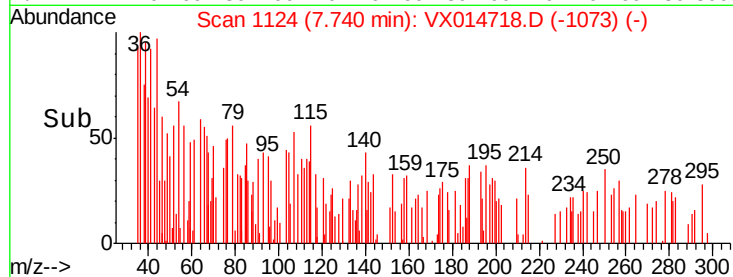
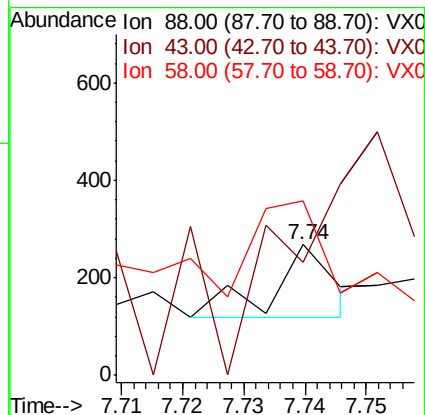
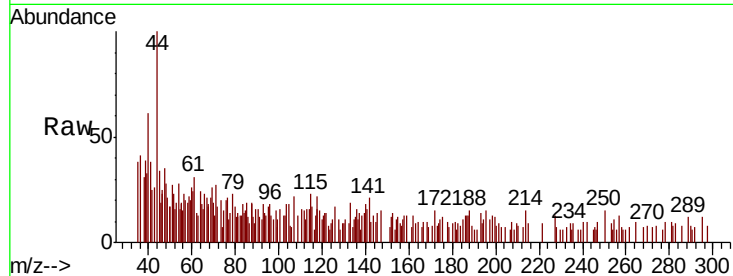
Tot Ion: 88 Resp: 105

Ion Ratio Lower Upper

88 100

43 106.7 26.2 39.2#

58 163.8 56.6 85.0#



#50

Toluene-d8

Concen: 48.954 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014718.D

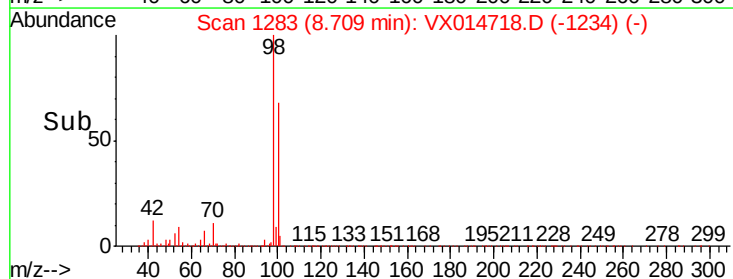
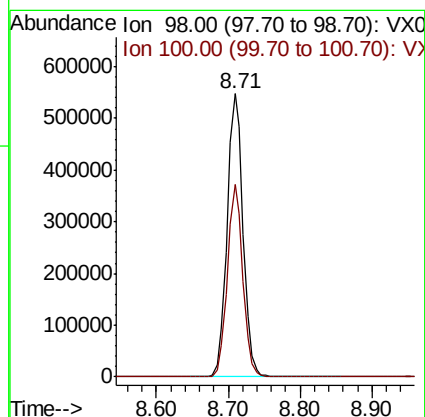
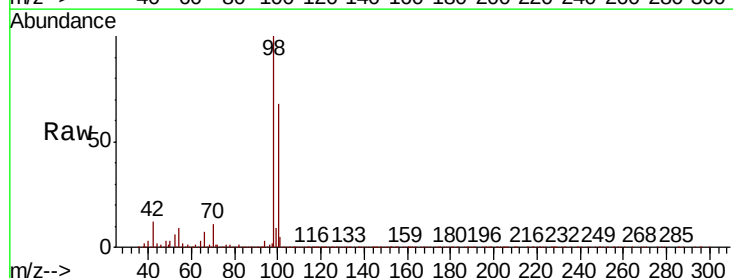
Acq: 27 Jan 2020 12:01

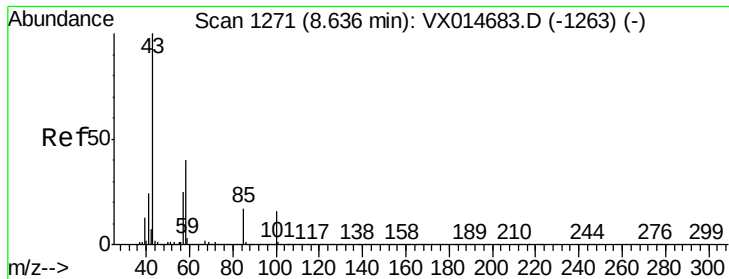
Tgt Ion: 98 Resp: 845228

Ion Ratio Lower Upper

98 100

100 65.7 53.0 79.6

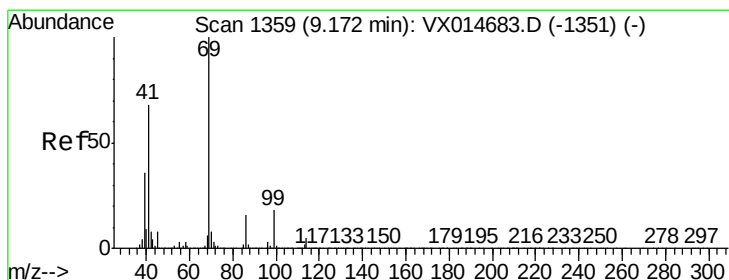
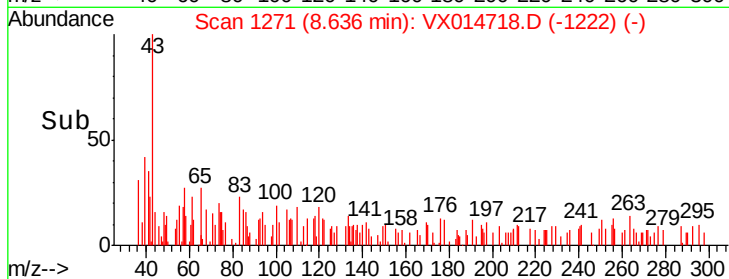
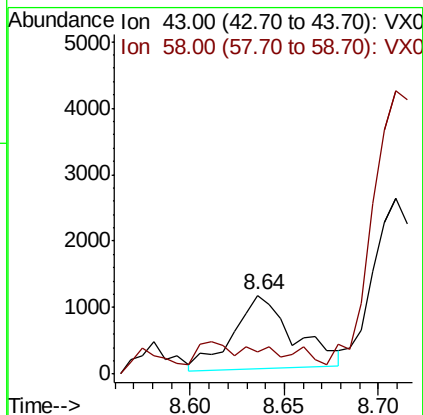
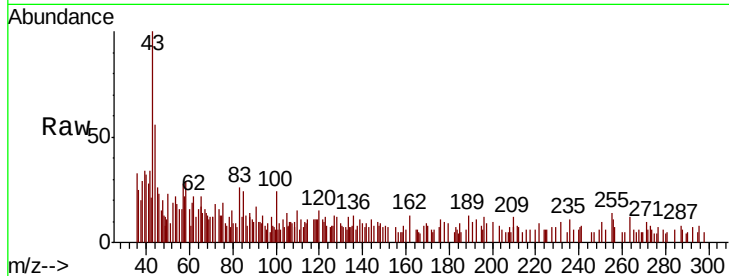




#51
4-Methyl-2-Pentanone
Concen: 0.314 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VX014718.D
Acq: 27 Jan 2020 12:01

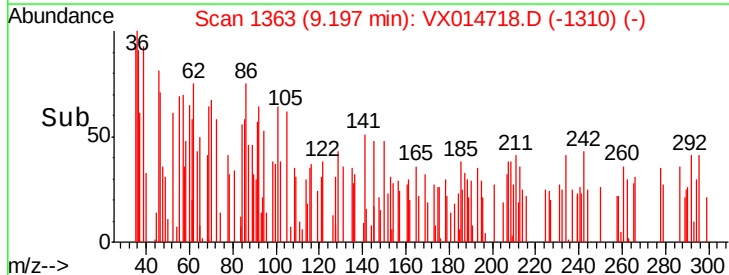
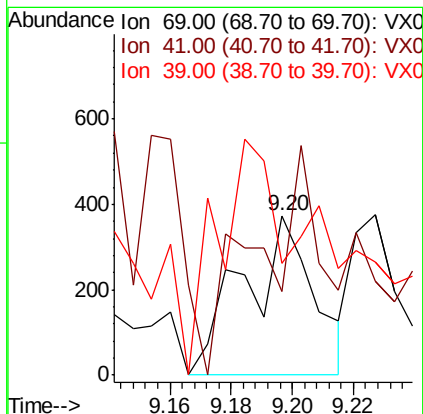
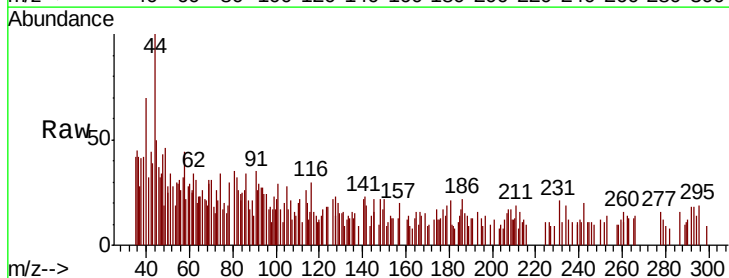
Instrument :
MSVOA_X
ClientSampled :

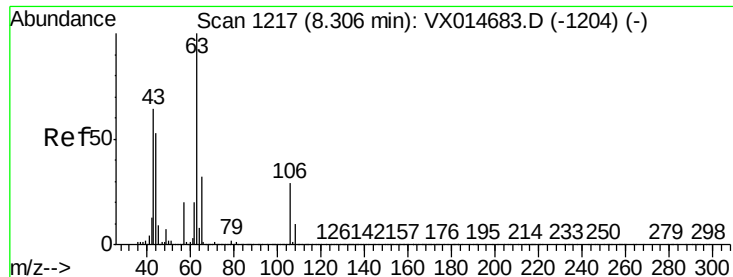
Tot Ion: 43 Resp: 2458
Ion Ratio Lower Upper
43 100
58 0.0 31.6 47.4#



#56
Ethyl methacrylate
Concen: 1.850 ug/l
RT: 9.20 min Scan# 1363
Delta R.T. 0.02 min
Lab File: VX014718.D
Acq: 27 Jan 2020 12:01

Tgt Ion: 69 Resp: 590
Ion Ratio Lower Upper
69 100
41 131.5 54.9 82.3#
39 142.7 29.3 43.9#

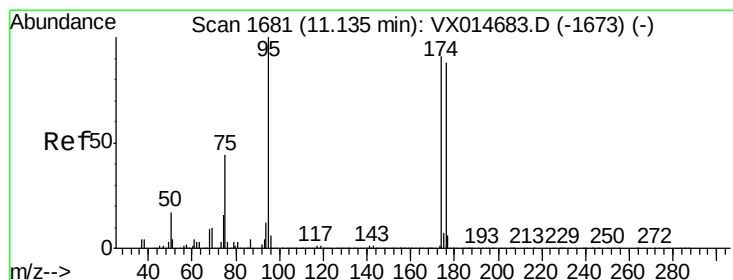
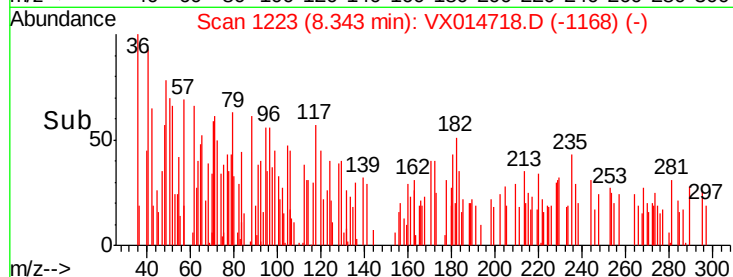
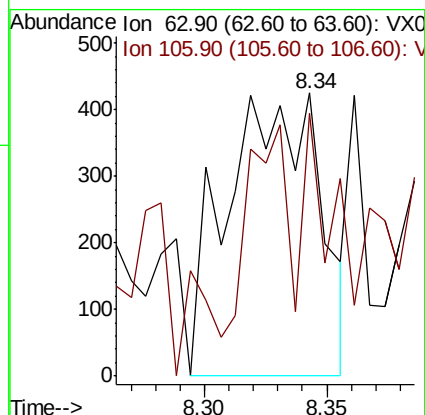
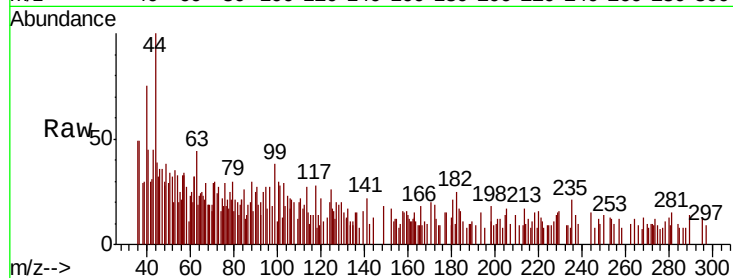




#58
2-Chloroethyl Vinyl ether
Concen: 0.433 ug/l
RT: 8.34 min Scan# 1223
Delta R.T. 0.04 min
Lab File: VX014718.D
Acq: 27 Jan 2020 12:01

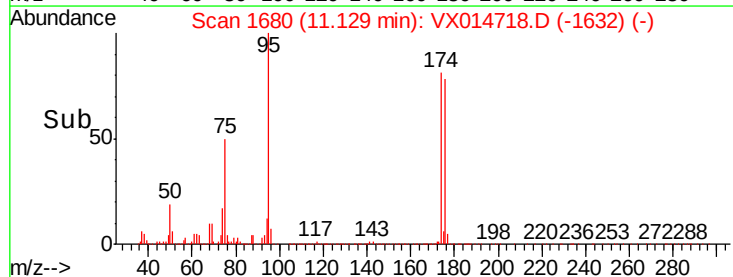
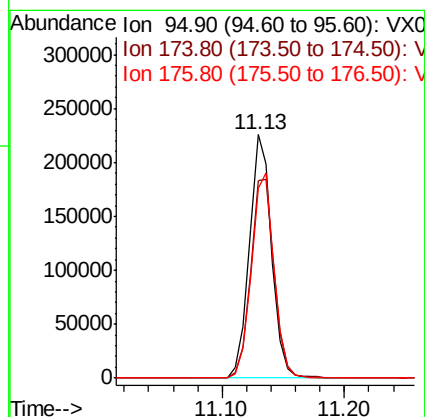
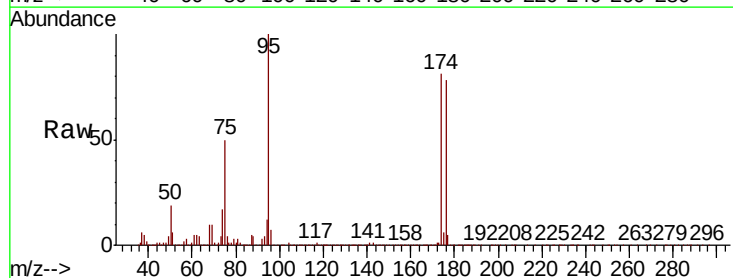
Instrument :
MSVOA_X
ClientSampleId :

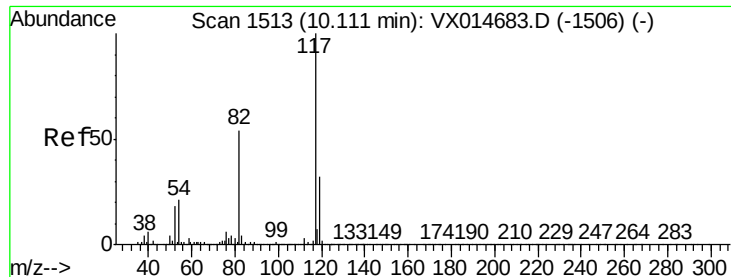
Tot Ion: 63 Resp: 1120
Ion Ratio Lower Upper
63 100
106 18.9 22.7 34.1#



#62
4-Bromofluorobenzene
Concen: 46.227 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.01 min
Lab File: VX014718.D
Acq: 27 Jan 2020 12:01

Tgt Ion: 95 Resp: 284320
Ion Ratio Lower Upper
95 100
174 87.3 0.0 176.0
176 86.2 0.0 172.2

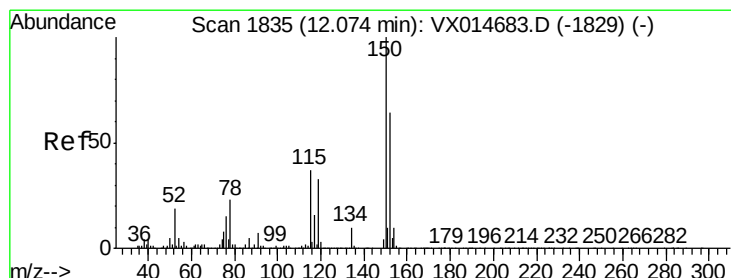
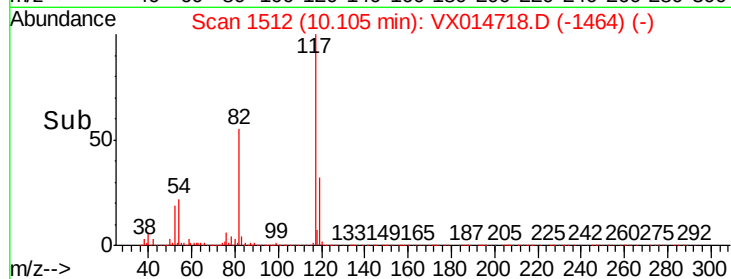
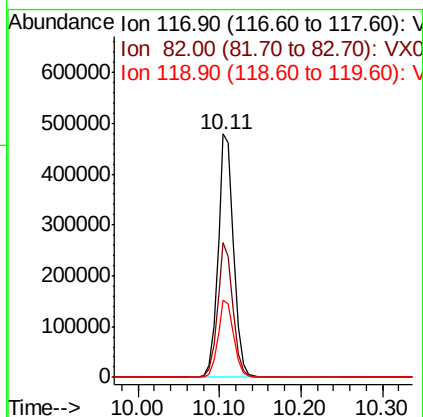
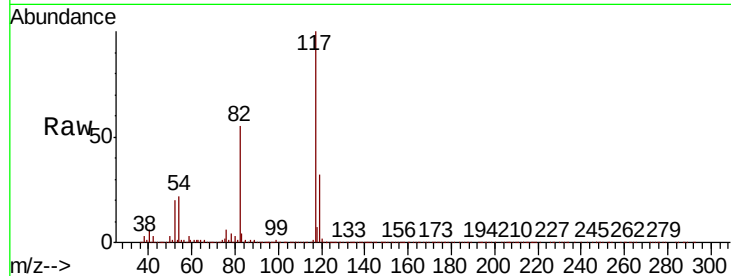




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014718.D
Acq: 27 Jan 2020 12:01

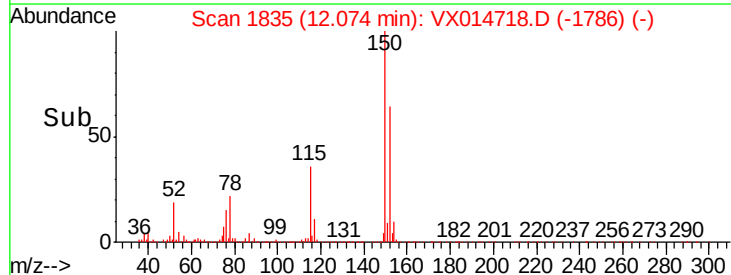
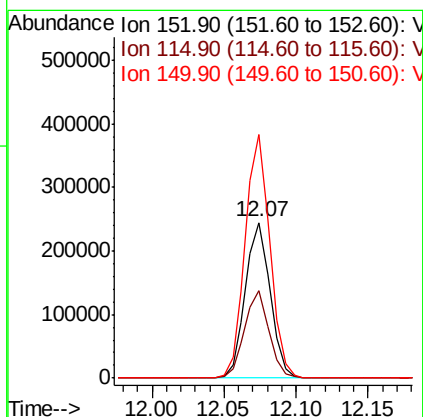
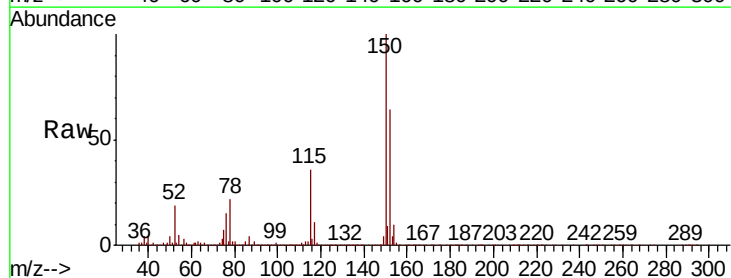
Instrument :
MSVOA_X
ClientSampleId :

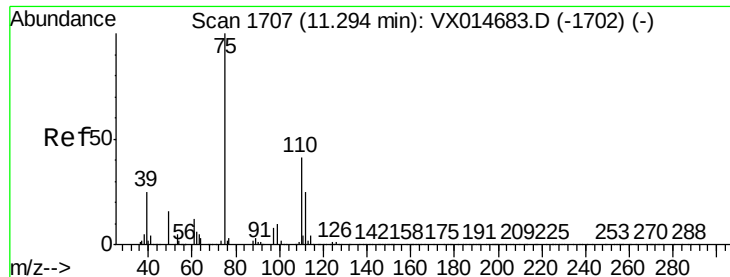
Tot Ion:117 Resp: 641662
Ion Ratio Lower Upper
117 100
82 55.3 43.2 64.8
119 31.7 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014718.D
Acq: 27 Jan 2020 12:01

Tgt Ion:152 Resp: 292440
Ion Ratio Lower Upper
152 100
115 55.2 39.4 118.1
150 155.2 0.0 351.2





#76

1,2,3-Trichloropropane

Concen: 20.896 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014718.D

Acq: 27 Jan 2020 12:01

Instrument :

MSVOA_X

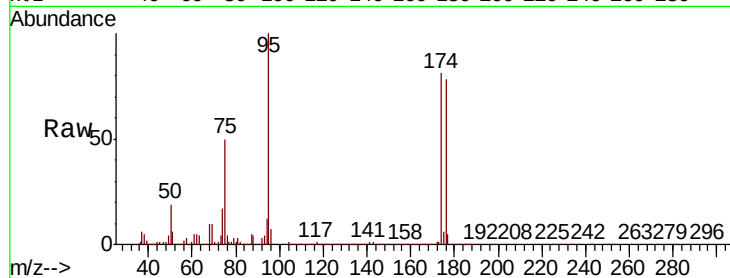
ClientSampleId :

Tot Ion: 75 Resp: 142175

Ion Ratio Lower Upper

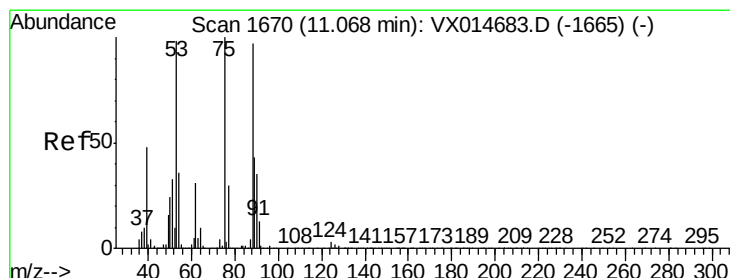
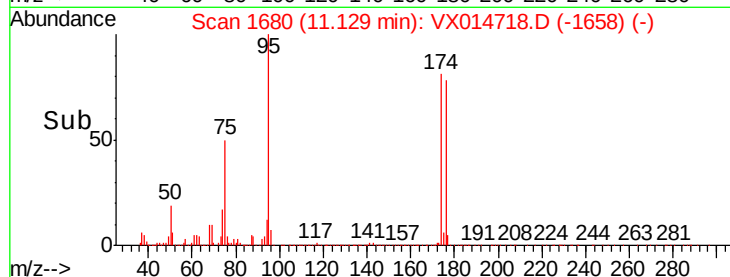
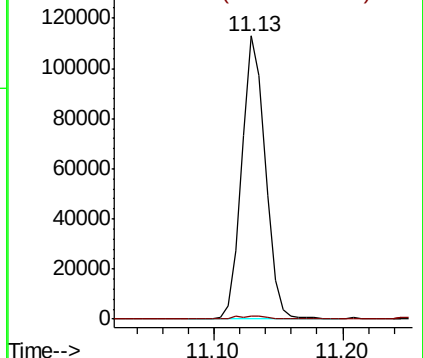
75 100

77 1.3 18.7 56.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 59.467 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014718.D

Acq: 27 Jan 2020 12:01

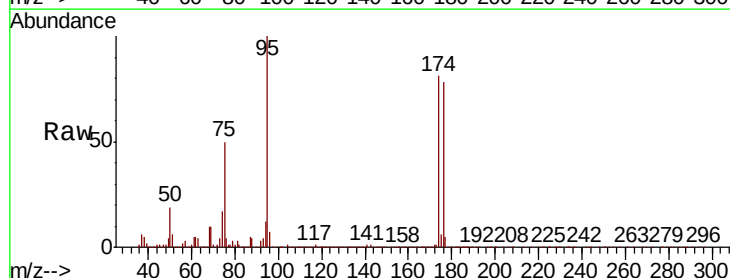
Tgt Ion: 75 Resp: 142175

Ion Ratio Lower Upper

75 100

53 0.0 78.8 118.2#

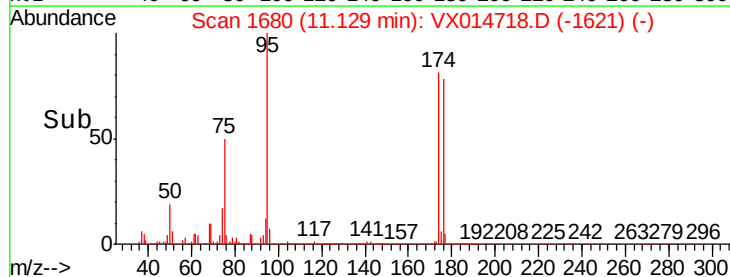
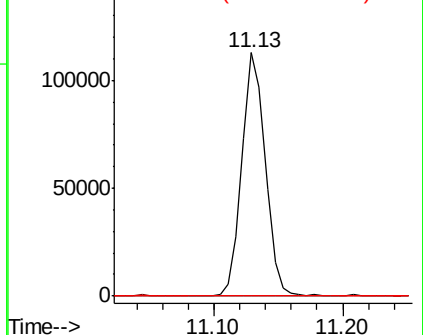
89 0.2 35.4 53.0#

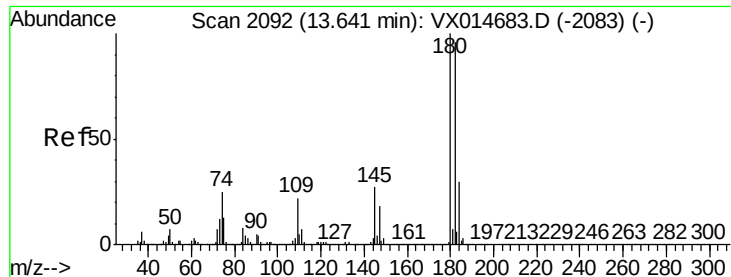


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#93

1,2,4-Trichlorobenzene

Concen: 0.266 ug/l

RT: 13.64 min Scan# 2092

Delta R.T. 0.00 min

Lab File: VX014718.D

Acq: 27 Jan 2020 12:01

Instrument :

MSVOA_X

ClientSampleId :

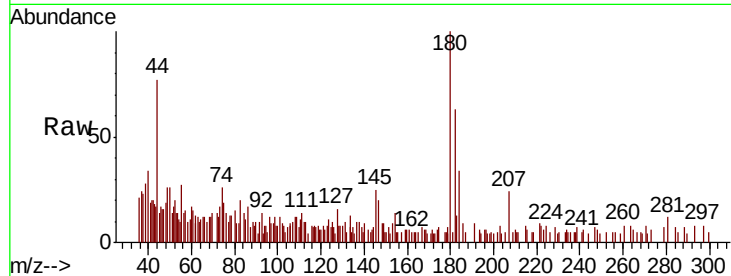
Tot Ion:180 Resp: 1689

Ion Ratio Lower Upper

180 100

182 82.5 48.5 145.6

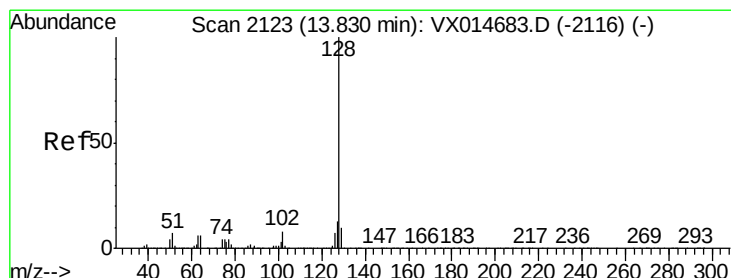
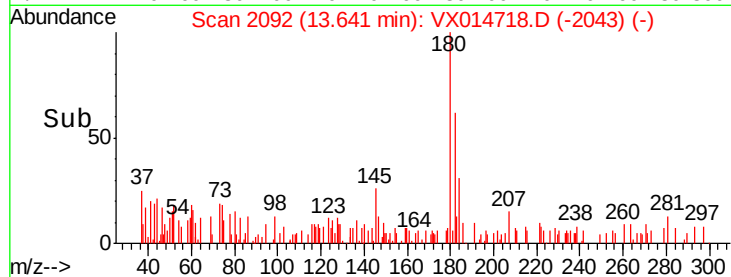
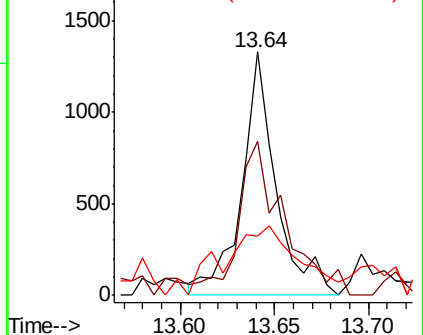
145 62.9 14.0 41.9#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 1.078 ug/l

RT: 13.83 min Scan# 2123

Delta R.T. 0.00 min

Lab File: VX014718.D

Acq: 27 Jan 2020 12:01

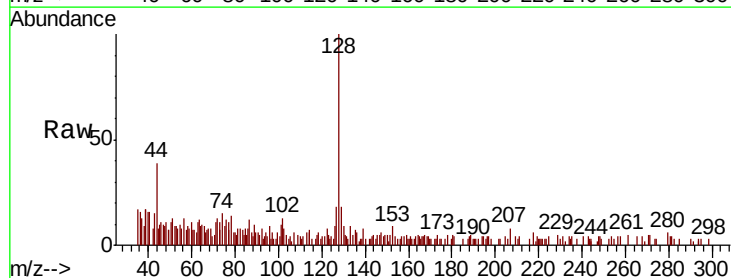
Tgt Ion:128 Resp: 3050

Ion Ratio Lower Upper

128 100

127 21.8 10.3 15.5#

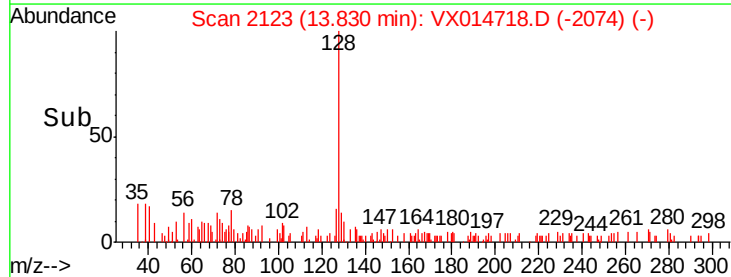
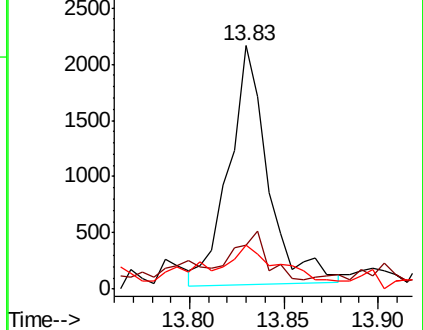
129 28.0 8.6 12.8#

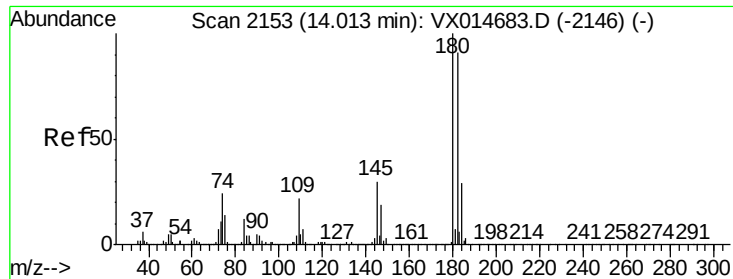


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 0.232 ug/l

RT: 14.02 min Scan# 2154

Delta R.T. 0.01 min

Lab File: VX014718.D

Acq: 27 Jan 2020 12:01

Instrument :

MSVOA_X

ClientSampleId :

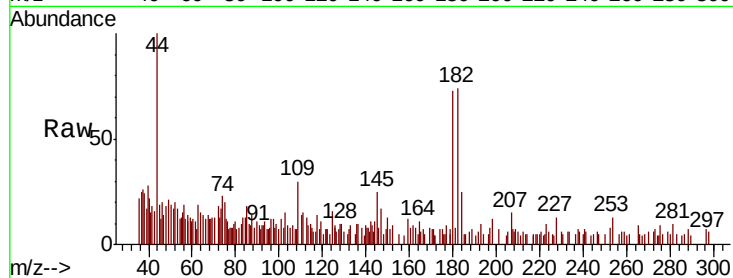
Tot Ion:180 Resp: 1490

Ion Ratio Lower Upper

180 100

182 104.8 46.6 139.7

145 39.7 14.7 44.1



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

