

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX073020\
 Data File : VX017683.D
 Acq On : 30 Jul 2020 15:11
 Operator : JC/SP
 Sample : L3478-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 31 05:36:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	452561	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	743068	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	791101	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	448008	50.00	ug/l	0.00

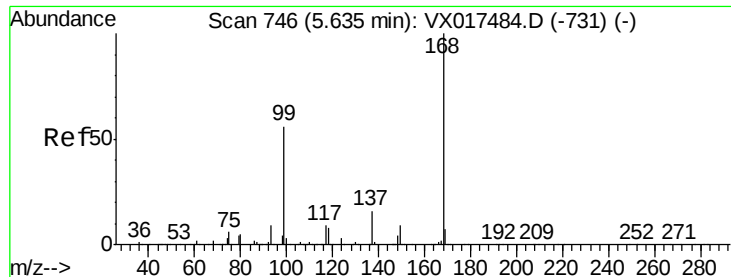
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	305250	52.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.02%	
35) Dibromofluoromethane	5.47	113	256596	51.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.26%	
50) Toluene-d8	8.70	98	944127	52.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.32%	
62) 4-Bromofluorobenzene	11.12	95	421510	58.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.50%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.18	85	292	Below Cal	#	40
3) Chloromethane	1.32	50	2389	0.791	ug/l #	86
5) Bromomethane	1.61	94	192	Below Cal	#	3
6) Chloroethane	1.72	64	429	Below Cal	#	58
8) Diethyl Ether	2.17	74	428	Below Cal	#	1
11) Tert butyl alcohol	3.01	59	33451	27.302	ug/l #	89
13) Acrolein	2.28	56	1180	5.389	ug/l #	1
14) Allyl chloride	2.68	41	36478	4.274	ug/l #	45
15) Acrylonitrile	3.12	53	8003	3.024	ug/l	90
16) Acetone	2.42	43	546729	213.678	ug/l	97
17) Carbon Disulfide	2.56	76	5608	0.395	ug/l #	74
18) Methyl Acetate	2.75	43	2592	0.430	ug/l #	85
20) Methylene Chloride	2.84	84	5864	Below Cal		94
25) 2-Butanone	4.64	43	119127	32.774	ug/l	99
29) Tetrahydrofuran	5.10	42	2655	1.179	ug/l #	69
36) 1,1-Dichloropropene	5.64	75	32173	4.514	ug/l #	51
37) Ethyl Acetate	4.64	43	119127	15.277	ug/l #	70
38) Carbon Tetrachloride	5.64	117	45346	5.240	ug/l #	18
40) Benzene	6.12	78	7185	0.352	ug/l #	74
48) Methyl methacrylate	7.64	41	2127	0.334	ug/l #	15
49) 1,4-Dioxane	7.76	88	443	3.623	ug/l #	60
51) 4-Methyl-2-Pentanone	8.62	43	40754	5.309	ug/l	97
59) 2-Hexanone	9.48	43	19651	3.400	ug/l	90
74) N-ethyl acetate	10.91	43	3558	0.261	ug/l #	44
76) 1,2,3-Trichloropropane	11.12	75	216865	23.532	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	216865	59.296	ug/l #	12
84) 1,2,4-Trimethylbenzene	11.79	105	6105	0.234	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	12.98	75	160	2.633	ug/l #	17
95) Naphthalene	13.82	128	6107	0.206	ug/l #	84

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017683.D

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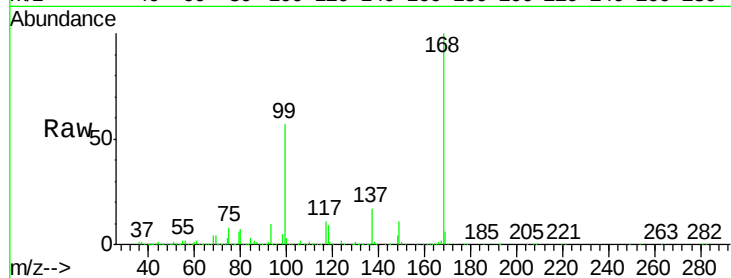
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 452561

Ion Ratio Lower Upper

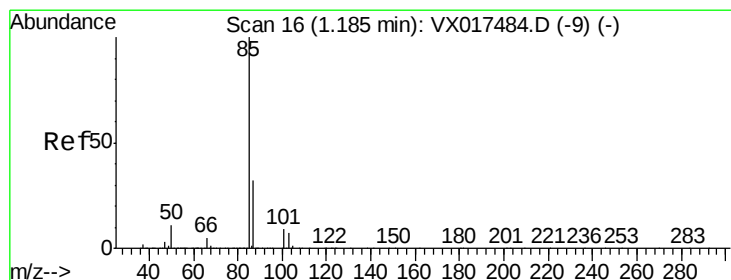
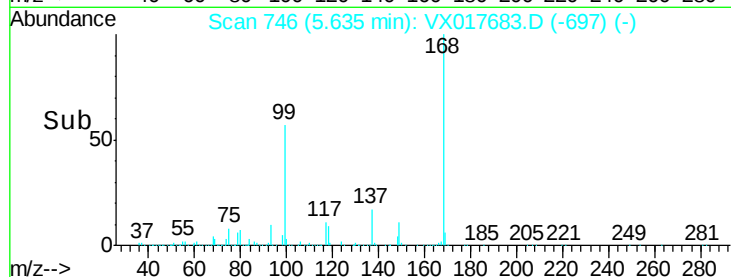
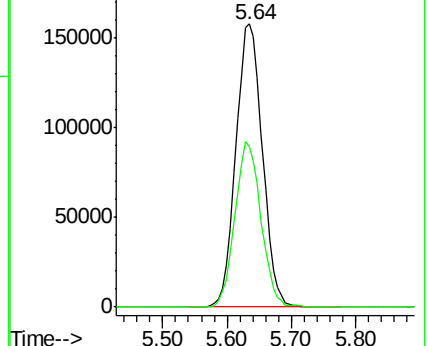
168 100

99 56.8 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 15

Delta R.T. -0.01 min

Lab File: VX017683.D

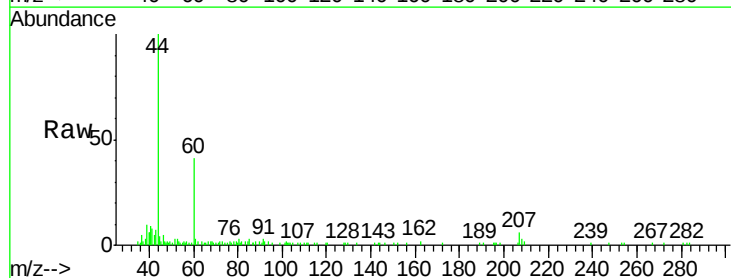
Acq: 30 Jul 2020 15:11

Tgt Ion: 85 Resp: 292

Ion Ratio Lower Upper

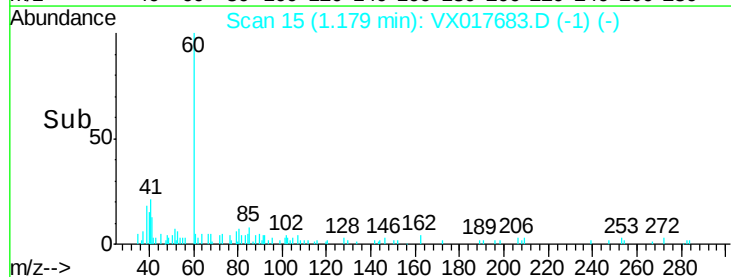
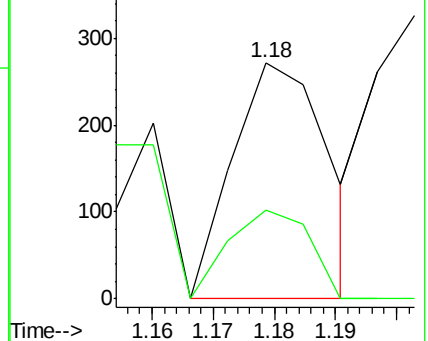
85 100

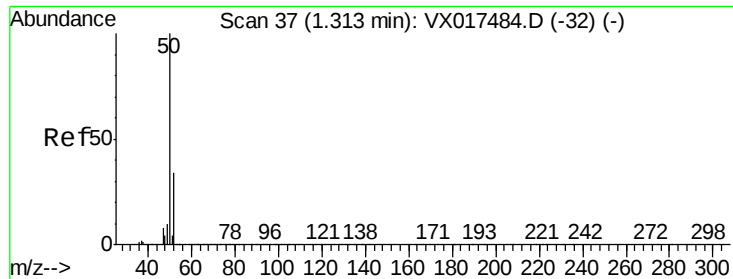
87 65.8 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.791 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017683.D

Acq: 30 Jul 2020 15:11

Instrument :

MSVOA_X

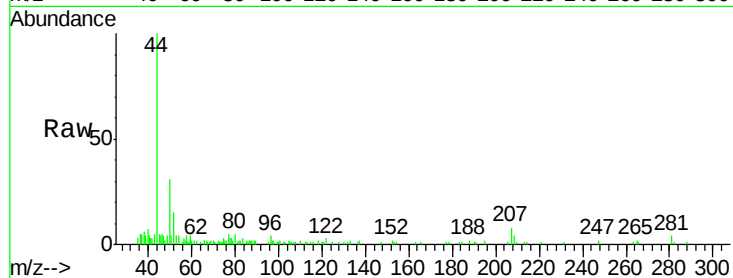
ClientSampled :

Tot Ion: 50 Resp: 2389

Ion Ratio Lower Upper

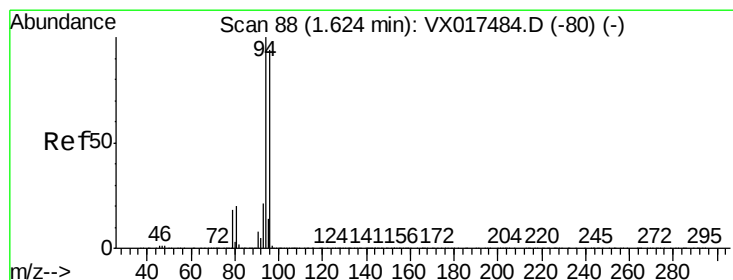
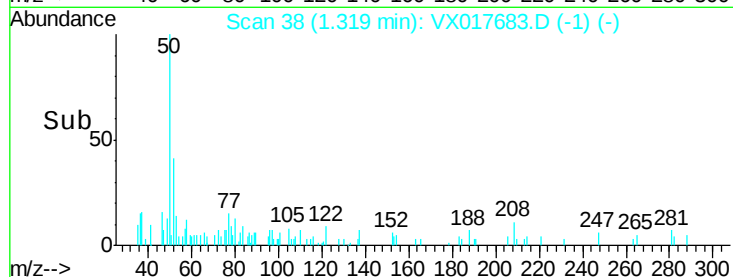
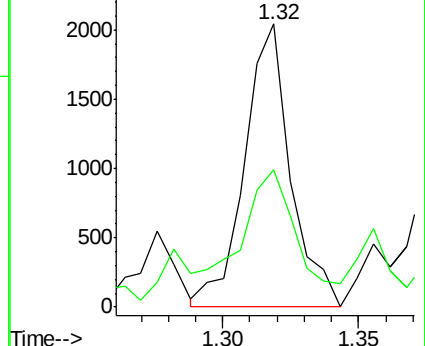
50 100

52 40.2 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 85

Delta R.T. -0.02 min

Lab File: VX017683.D

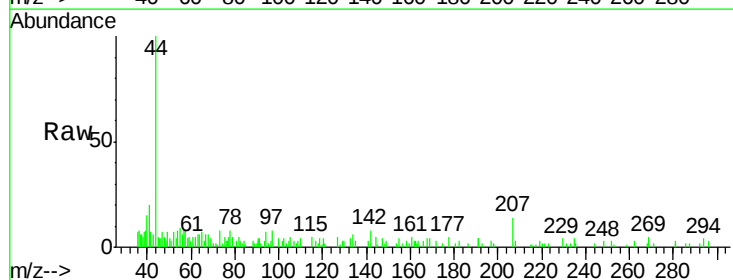
Acq: 30 Jul 2020 15:11

Tgt Ion: 94 Resp: 192

Ion Ratio Lower Upper

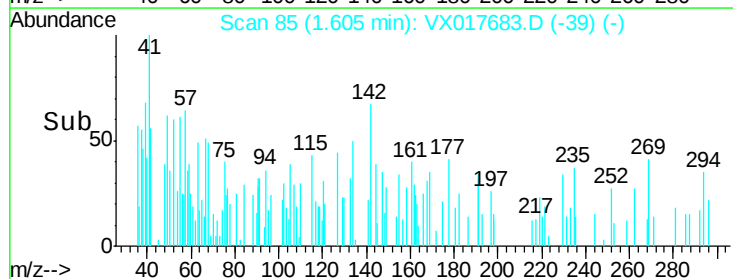
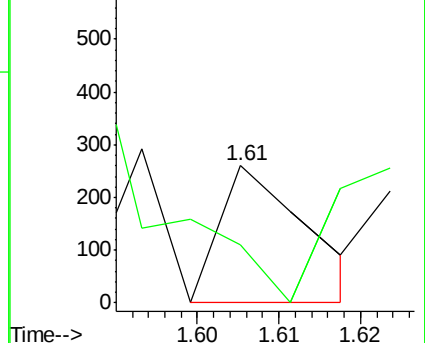
94 100

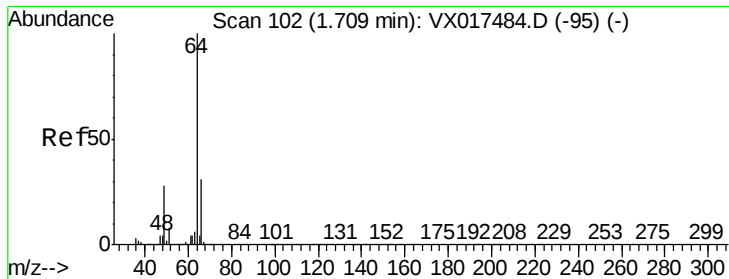
96 0.0 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX017683.D

Acq: 30 Jul 2020 15:11

Instrument :

MSVOA_X

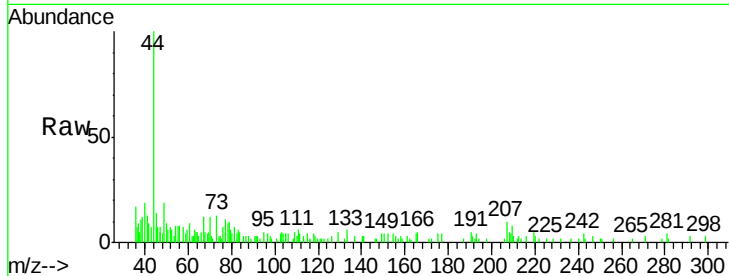
ClientSampleId :

Tot Ion: 64 Resp: 429

Ion Ratio Lower Upper

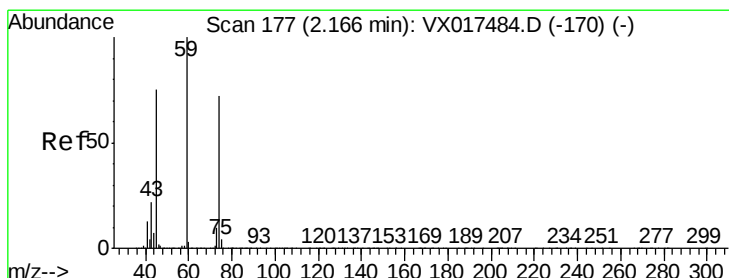
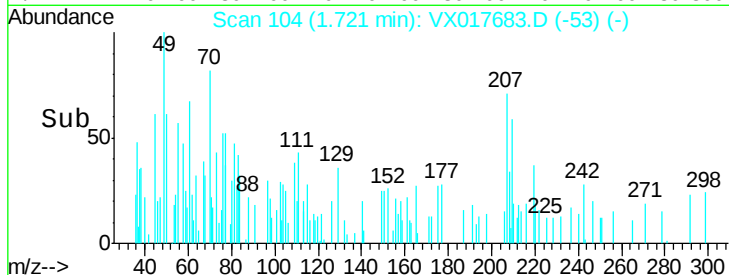
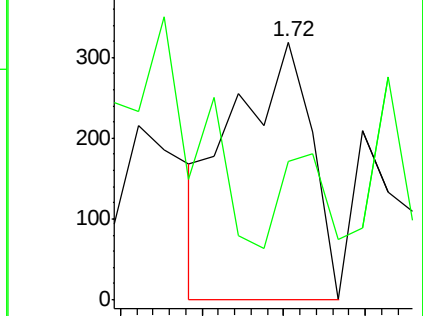
64 100

66 8.2 24.9 37.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017683.D

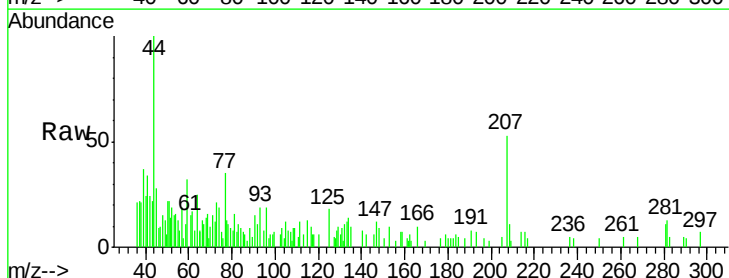
Acq: 30 Jul 2020 15:11

Tgt Ion: 74 Resp: 428

Ion Ratio Lower Upper

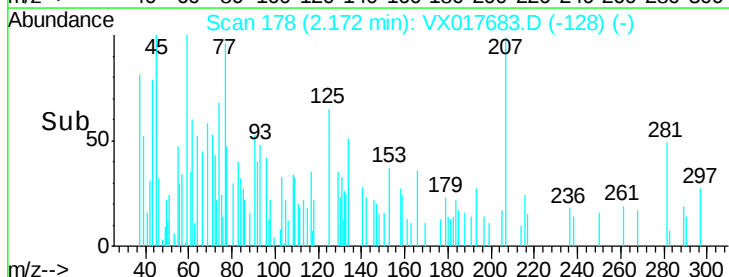
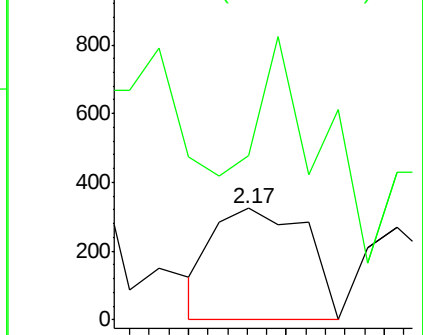
74 100

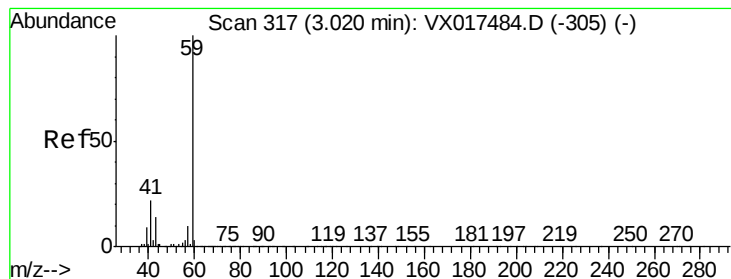
45 0.0 50.8 152.5#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



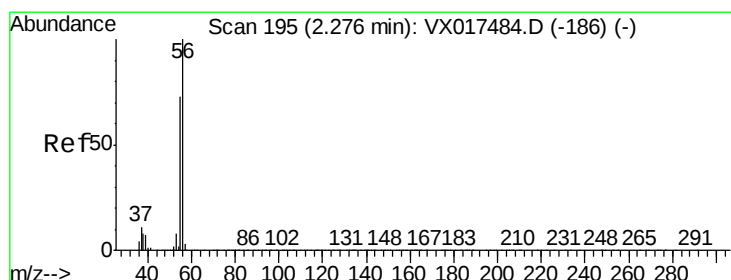
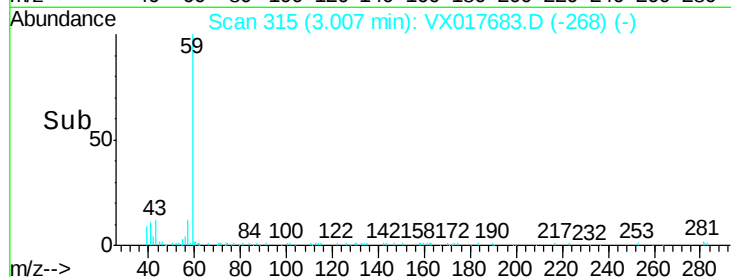
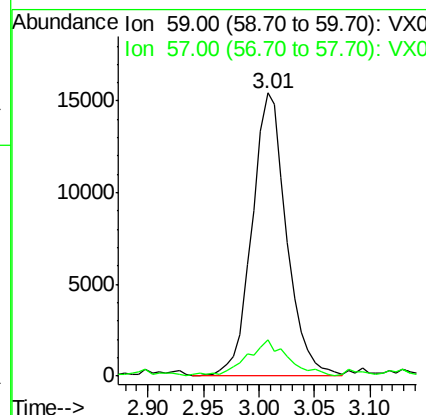
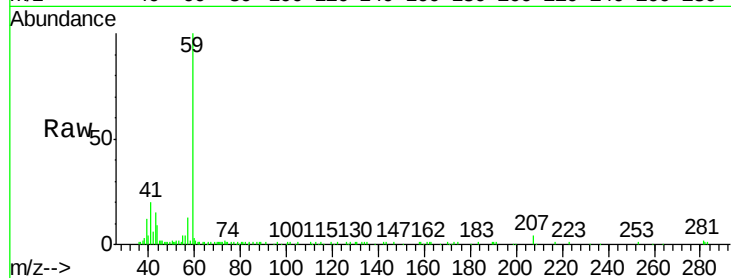


#11

Tert butyl alcohol
 Concen: 27.302 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX017683.D
 Acq: 30 Jul 2020 15:11

Instrument :
 MSVOA_X
 ClientSampleId :

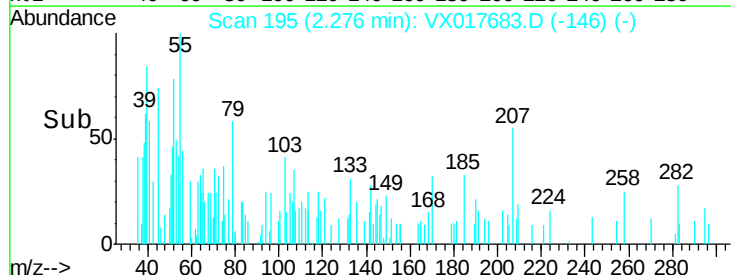
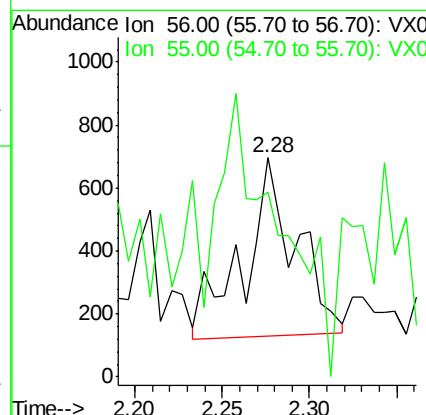
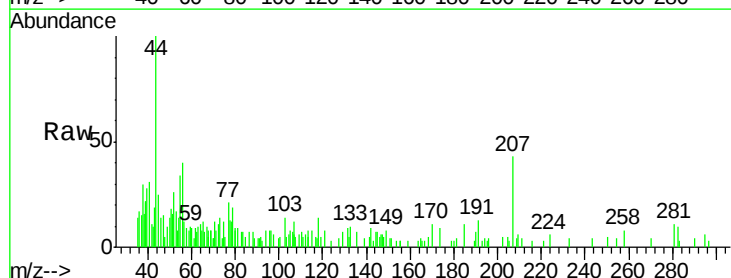
Tot Ion: 59 Resp: 33451
 Ion Ratio Lower Upper
 59 100
 57 15.0 8.6 12.8#

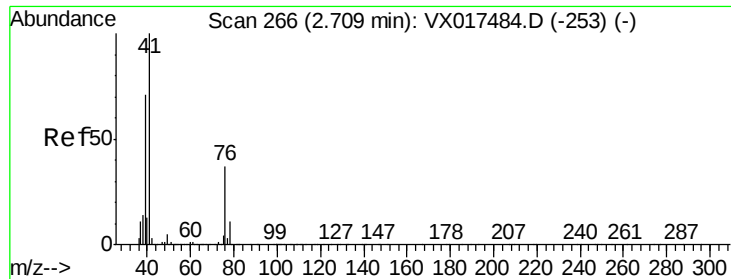


#13

Acrolein
 Concen: 5.389 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. -0.00 min
 Lab File: VX017683.D
 Acq: 30 Jul 2020 15:11

Tgt Ion: 56 Resp: 1180
 Ion Ratio Lower Upper
 56 100
 55 181.9 57.4 86.2#





#14

Allvl chloride

Concen: 4.274 ug/l

RT: 2.68 min Scan# 261

Delta R.T. -0.03 min

Lab File: VX017683.D

Acq: 30 Jul 2020 15:11

Instrument :

MSVOA_X

ClientSampleId :

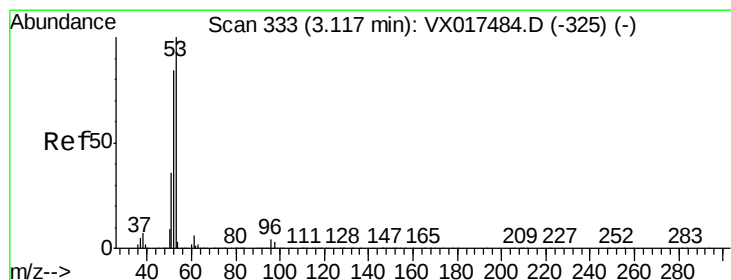
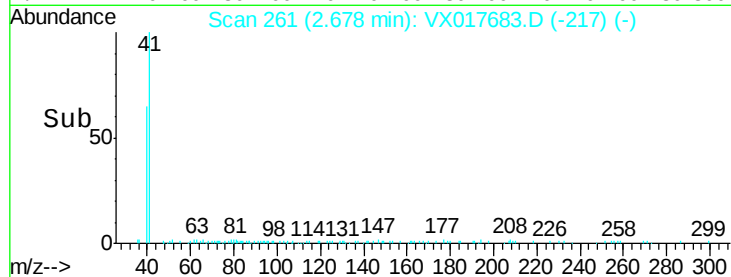
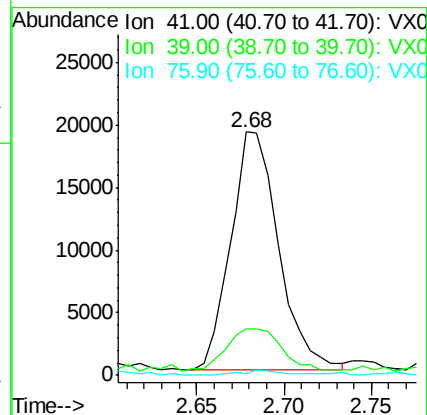
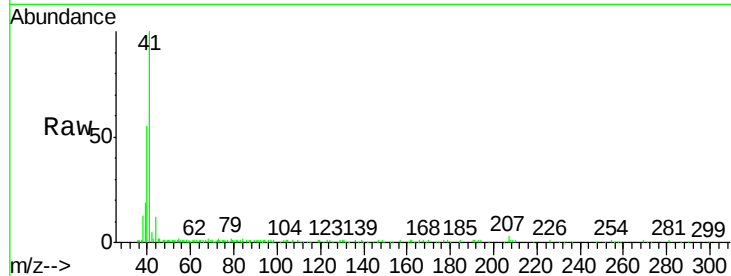
Tot Ion: 41 Resp: 36478

Ion Ratio Lower Upper

41 100

39 20.6 51.9 77.9#

76 1.9 25.5 38.3#



#15

Acrylonitrile

Concen: 3.024 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX017683.D

Acq: 30 Jul 2020 15:11

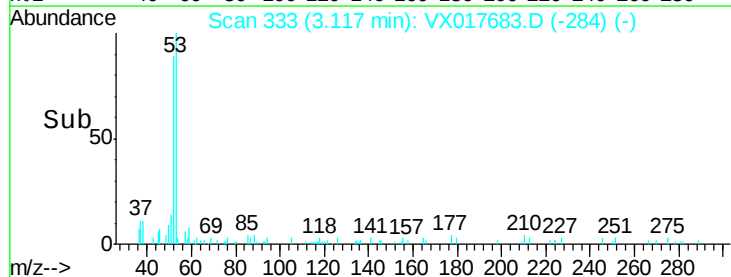
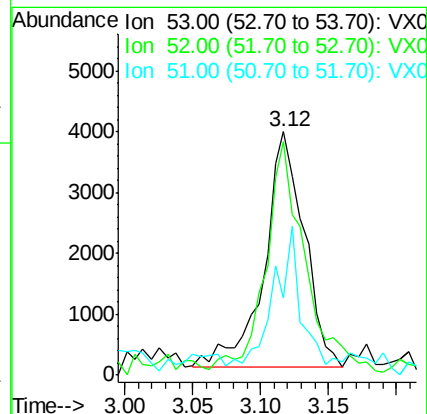
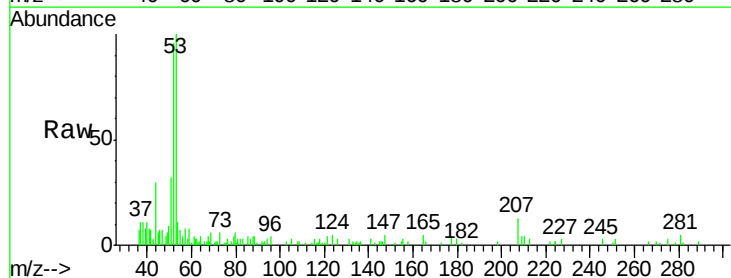
Tgt Ion: 53 Resp: 8003

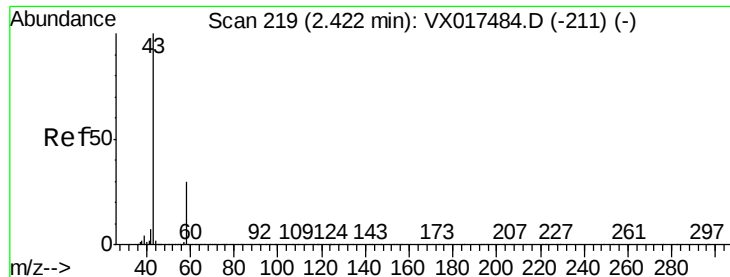
Ion Ratio Lower Upper

53 100

52 95.5 66.6 99.8

51 35.6 29.4 44.2

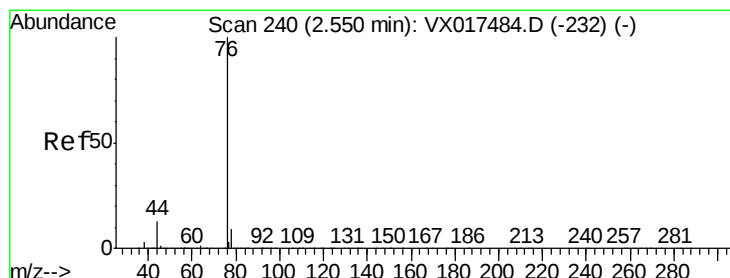
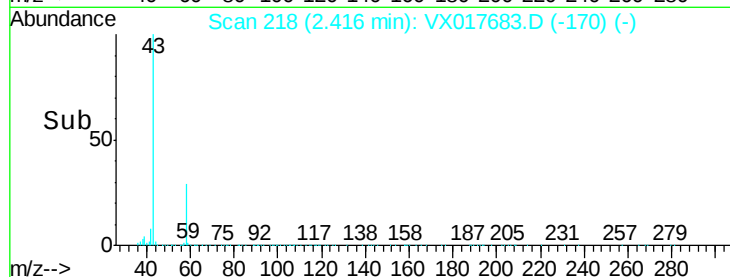
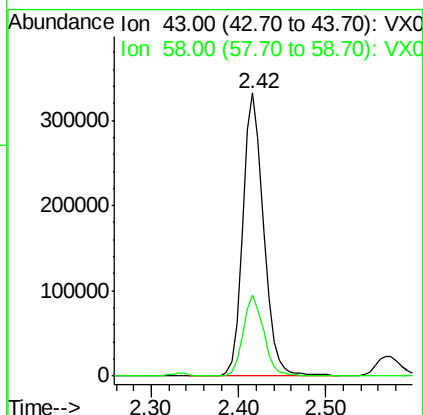
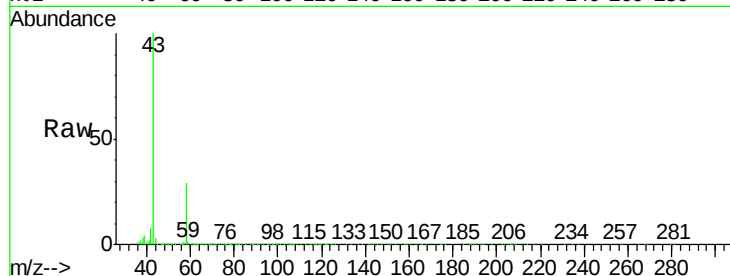




#16
Acetone
Concen: 213.678 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017683.D
Acq: 30 Jul 2020 15:11

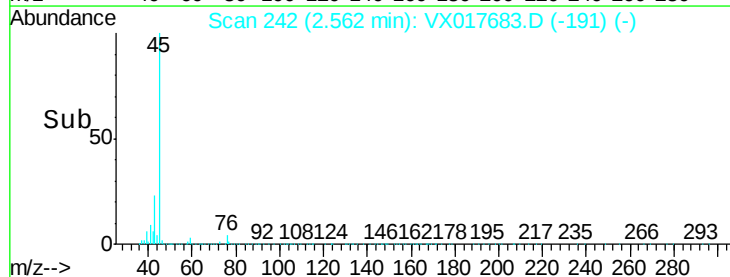
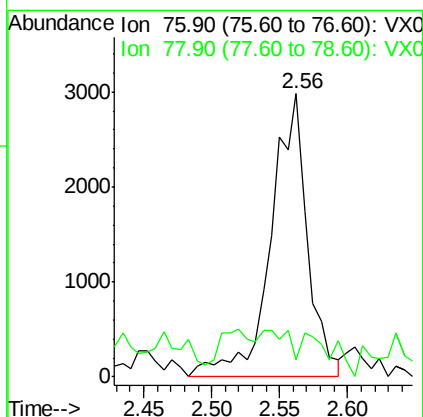
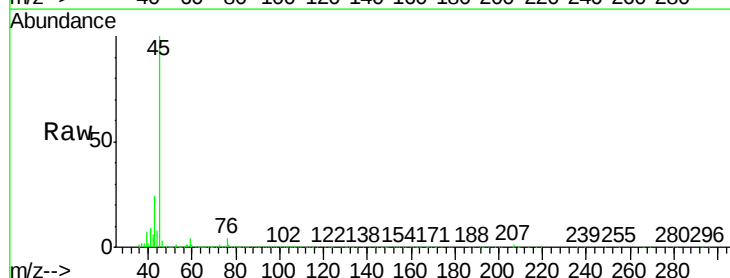
Instrument :
MSVOA_X
ClientSampleId :

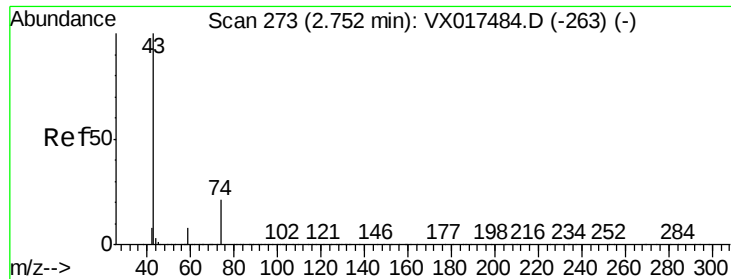
Tot Ion: 43 Resp: 546729
Ion Ratio Lower Upper
43 100
58 28.7 24.2 36.4



#17
Carbon Disulfide
Concen: 0.395 ug/l
RT: 2.56 min Scan# 242
Delta R.T. 0.01 min
Lab File: VX017683.D
Acq: 30 Jul 2020 15:11

Tgt Ion: 76 Resp: 5608
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#

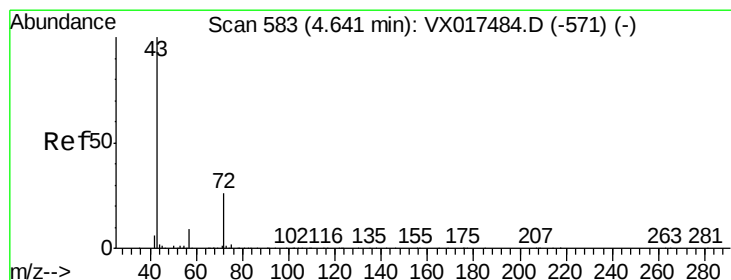
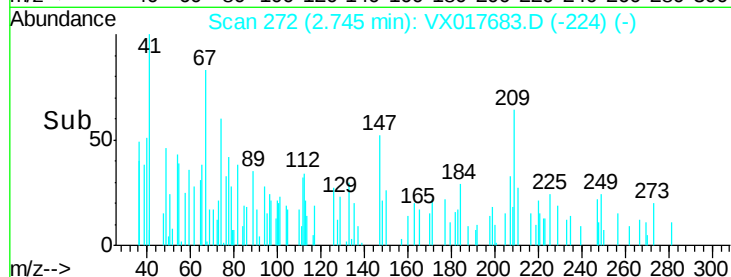
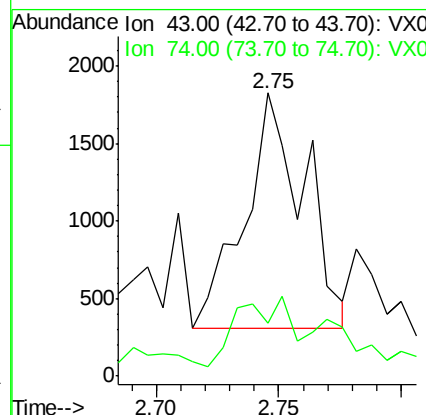
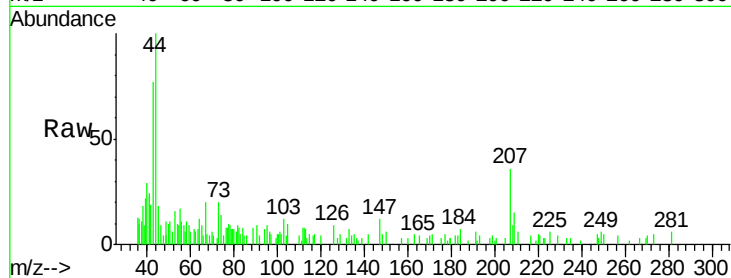




#18
Methvl Acetate
Concen: 0.430 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX017683.D
Acq: 30 Jul 2020 15:11

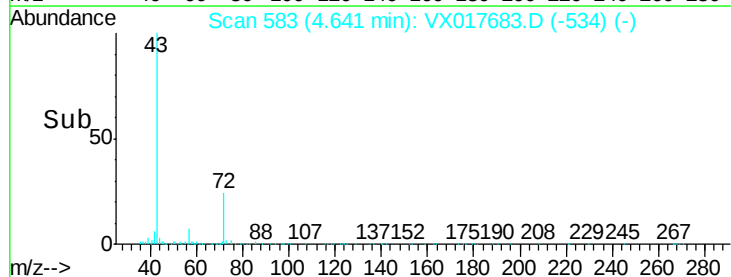
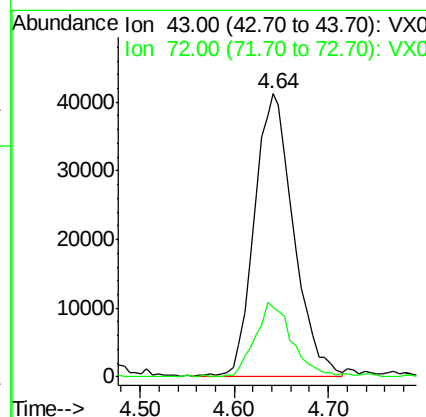
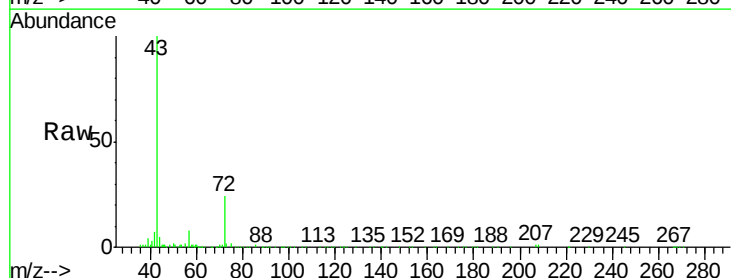
Instrument :
MSVOA_X
ClientSampleId :

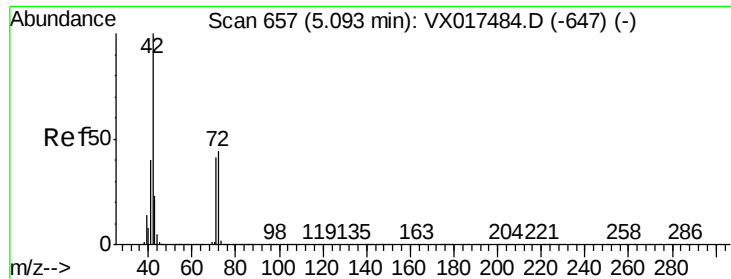
Tot Ion: 43 Resp: 2592
Ion Ratio Lower Upper
43 100
74 29.0 17.5 26.3#



#25
2-Butanone
Concen: 32.774 ug/l
RT: 4.64 min Scan# 583
Delta R.T. -0.00 min
Lab File: VX017683.D
Acq: 30 Jul 2020 15:11

Tgt Ion: 43 Resp: 119127
Ion Ratio Lower Upper
43 100
72 24.2 19.0 28.4





#29

Tetrahydrofuran

Concen: 1.179 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX017683.D

Acq: 30 Jul 2020 15:11

Instrument :

MSVOA_X

ClientSampled :

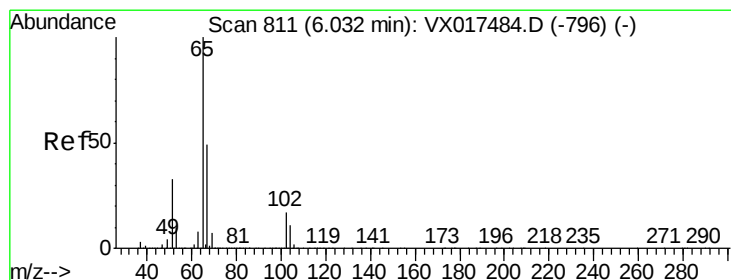
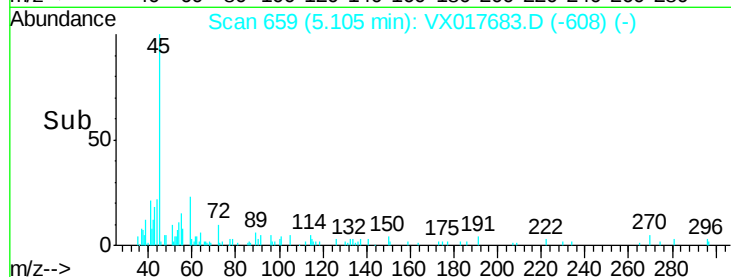
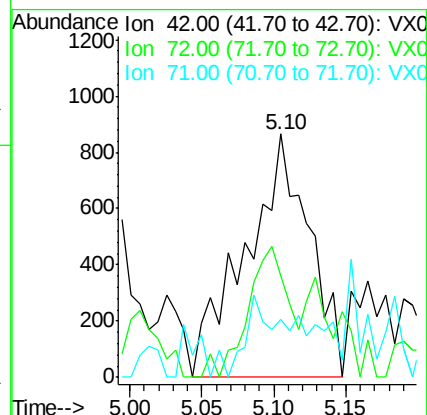
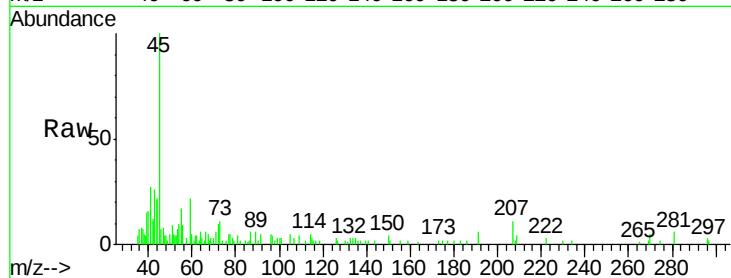
Tot Ion: 42 Resp: 2655

Ion Ratio Lower Upper

42 100

72 34.2 35.5 53.3#

71 11.8 33.0 49.4#



#33

1,2-Dichloroethane-d4

Concen: 52.508 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX017683.D

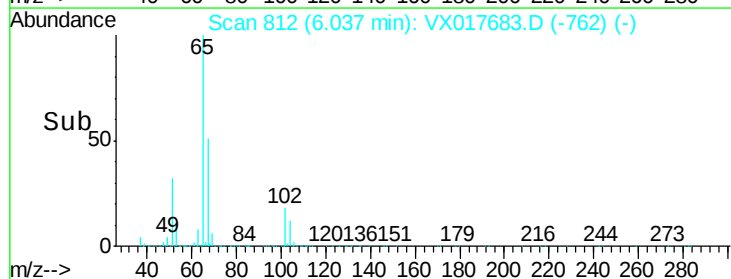
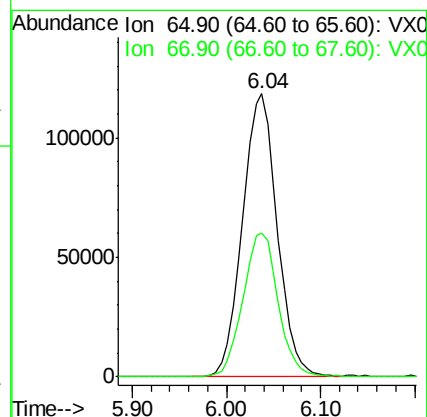
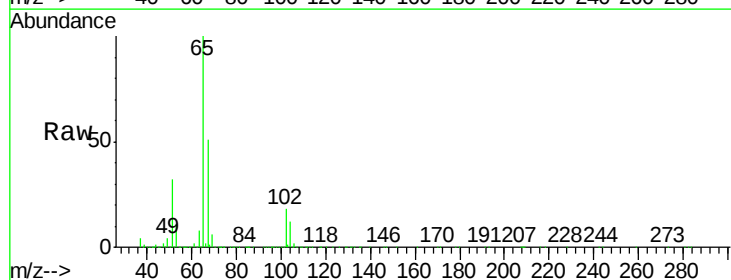
Acq: 30 Jul 2020 15:11

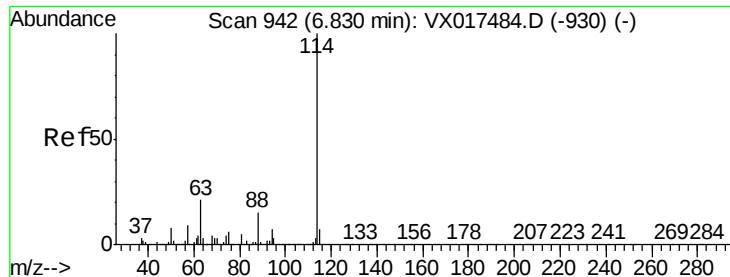
Tgt Ion: 65 Resp: 305250

Ion Ratio Lower Upper

65 100

67 51.7 0.0 102.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017683.D

Acq: 30 Jul 2020 15:11

Instrument :

MSVOA_X

ClientSampleId :

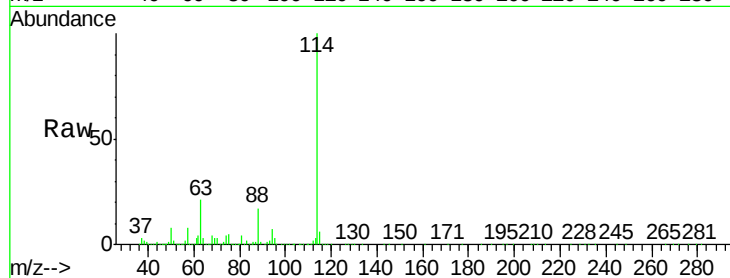
Tot Ion:114 Resp: 743068

Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.6

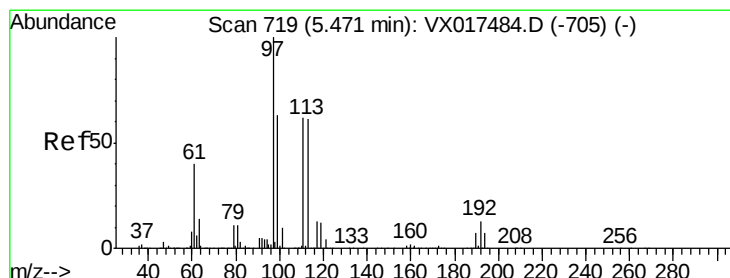
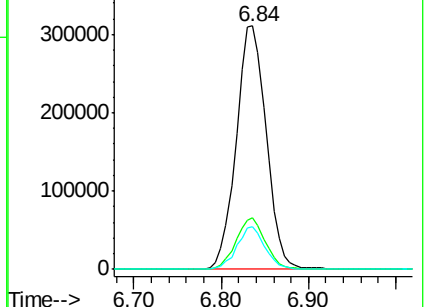
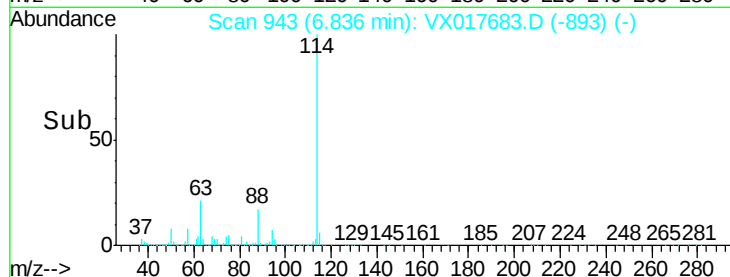
88 17.3 0.0 33.4



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: 51.632 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017683.D

Acq: 30 Jul 2020 15:11

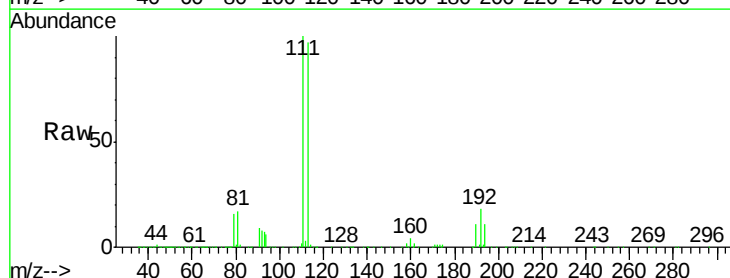
Tgt Ion:113 Resp: 256596

Ion Ratio Lower Upper

113 100

111 102.1 80.7 121.1

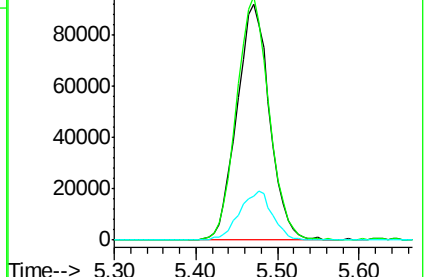
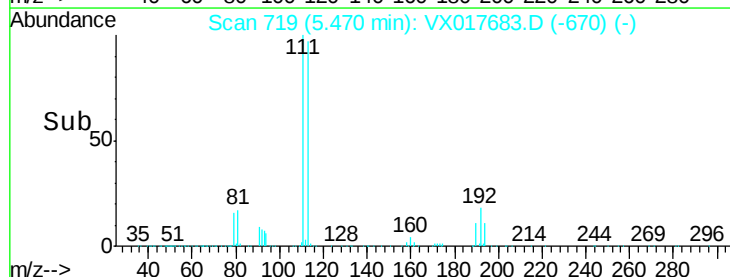
192 20.8 16.9 25.3

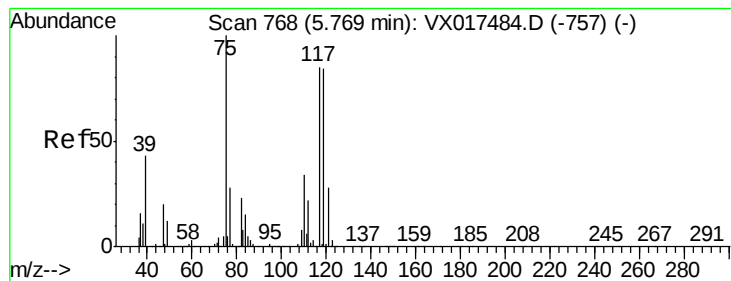


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.514 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX017683.D

Acq: 30 Jul 2020 15:11

Instrument :

MSVOA_X

ClientSampleId :

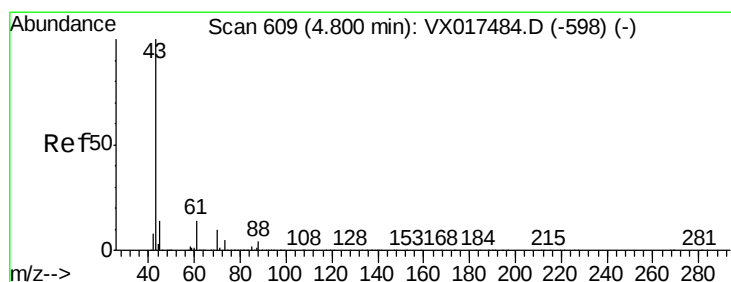
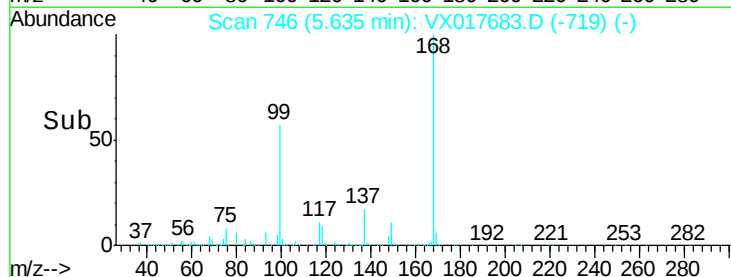
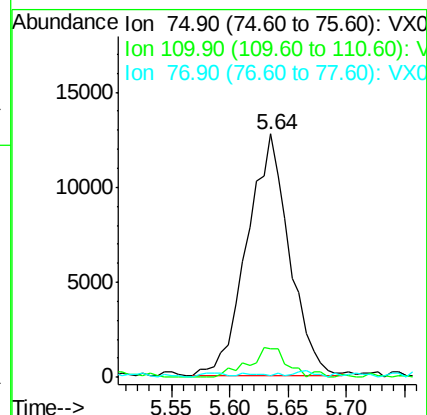
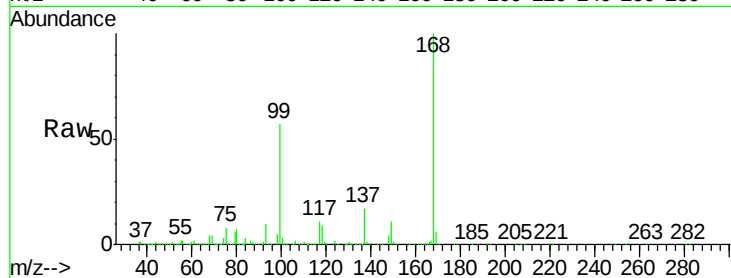
Tot Ion: 75 Resp: 32173

Ion Ratio Lower Upper

75 100

110 10.5 18.1 54.3#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 15.277 ug/l

RT: 4.64 min Scan# 583

Delta R.T. -0.16 min

Lab File: VX017683.D

Acq: 30 Jul 2020 15:11

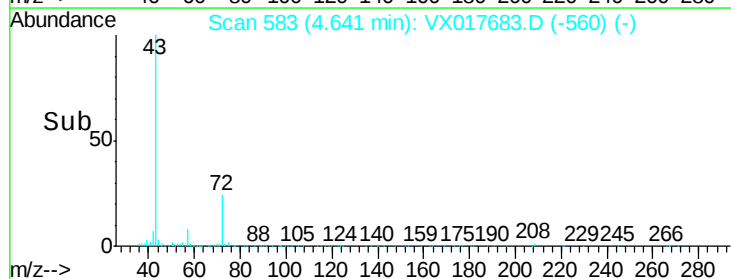
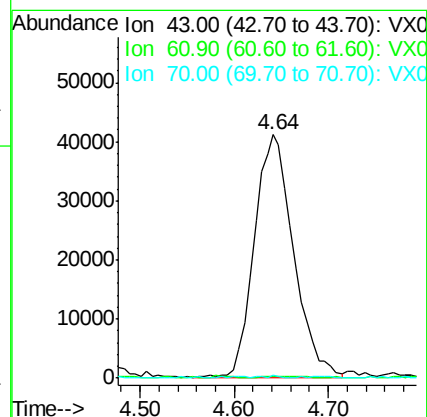
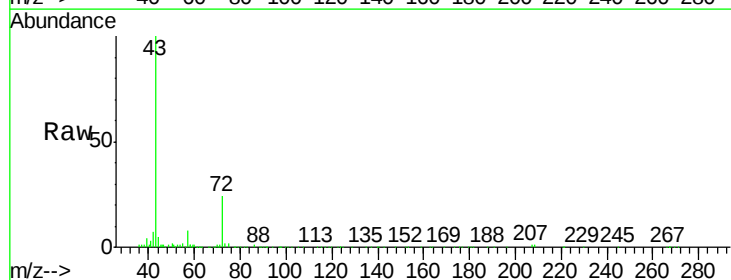
Tgt Ion: 43 Resp: 119127

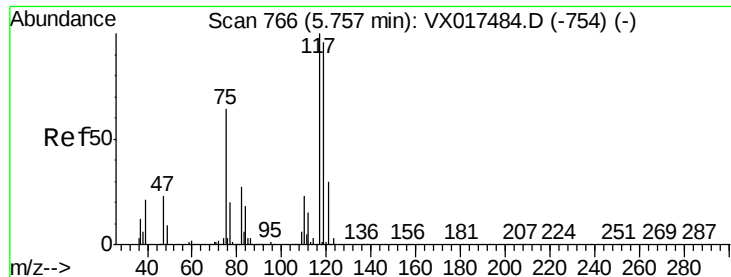
Ion Ratio Lower Upper

43 100

61 0.3 10.7 16.1#

70 0.2 8.5 12.7#





#38

Carbon Tetrachloride

Concen: 5.240 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX017683.D

Acq: 30 Jul 2020 15:11

Instrument :

MSVOA_X

ClientSampleId :

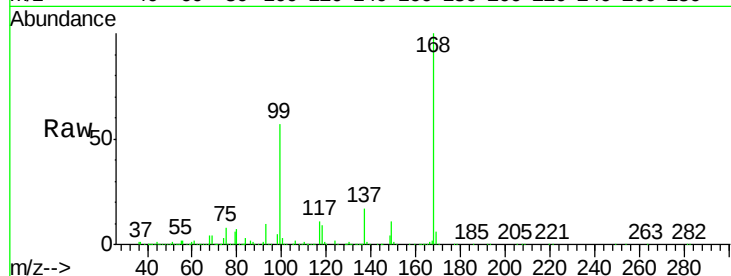
Tot Ion:117 Resp: 45346

Ion Ratio Lower Upper

117 100

119 6.6 75.4 113.0#

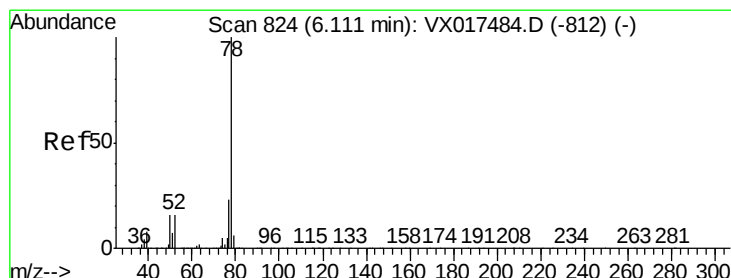
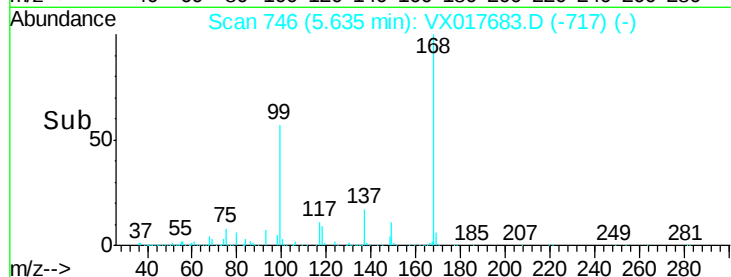
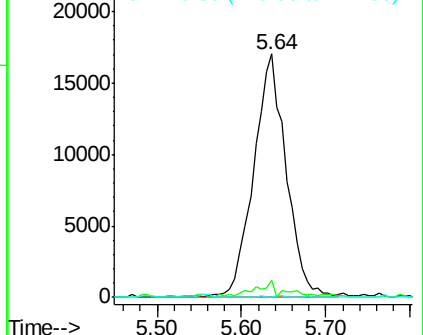
121 0.0 24.3 36.5#



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



#40

Benzene

Concen: 0.352 ug/l

RT: 6.12 min Scan# 826

Delta R.T. 0.01 min

Lab File: VX017683.D

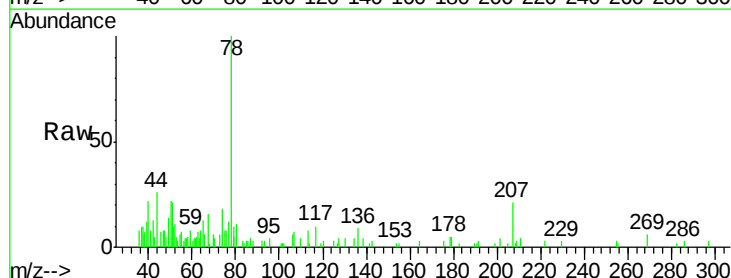
Acq: 30 Jul 2020 15:11

Tgt Ion: 78 Resp: 7185

Ion Ratio Lower Upper

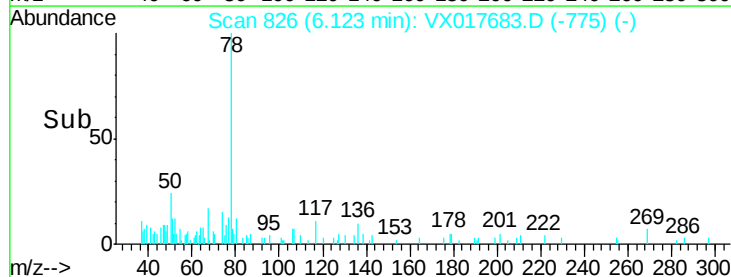
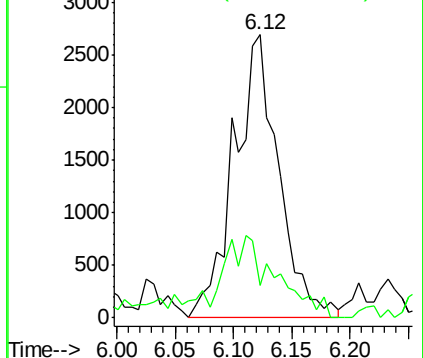
78 100

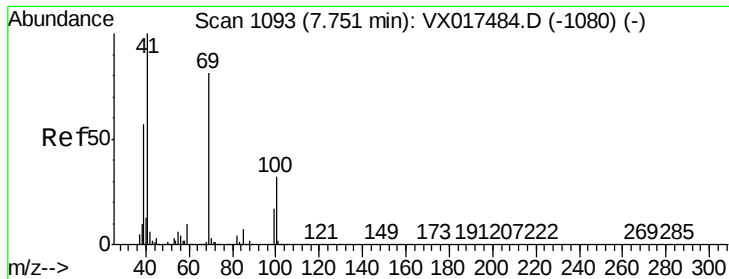
77 11.6 19.4 29.2#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#48

Methyl methacrylate

Concen: 0.334 ug/l

RT: 7.64 min Scan# 1075

Delta R.T. -0.11 min

Lab File: VX017683.D

Acq: 30 Jul 2020 15:11

Instrument :

MSVOA_X

ClientSampleId :

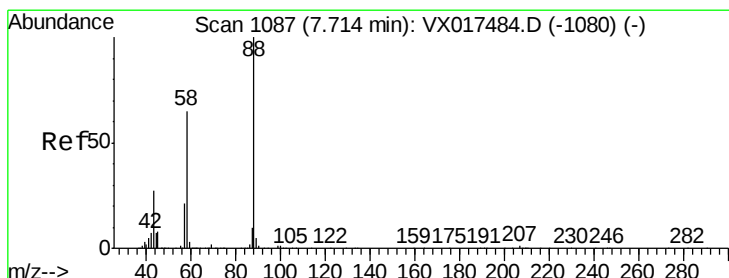
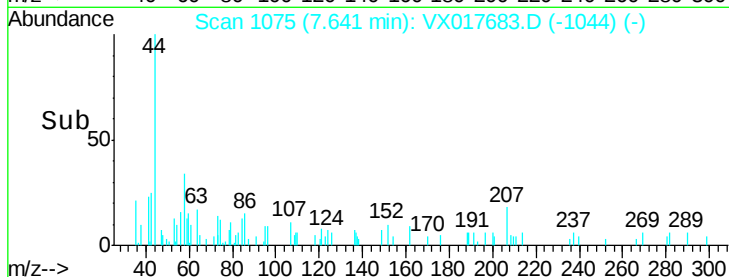
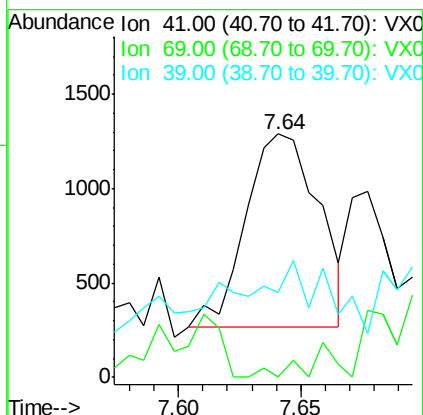
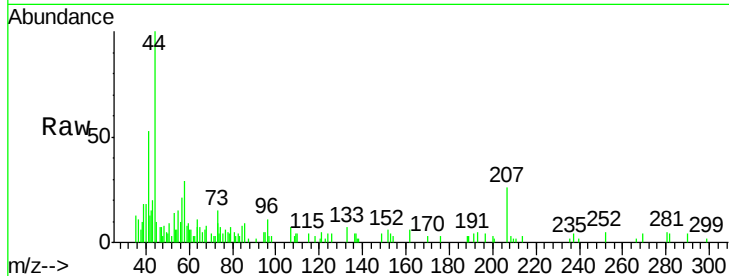
Tot Ion: 41 Resp: 2127

Ion Ratio Lower Upper

41 100

69 0.0 63.1 94.7#

39 0.0 45.1 67.7#



#49

1,4-Dioxane

Concen: 3.623 ug/l

RT: 7.76 min Scan# 1094

Delta R.T. 0.04 min

Lab File: VX017683.D

Acq: 30 Jul 2020 15:11

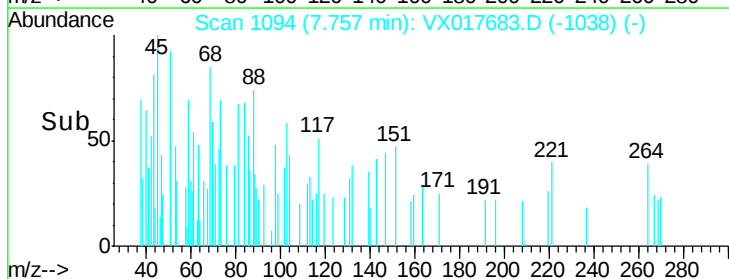
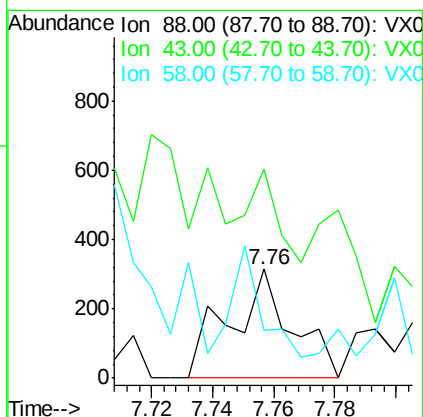
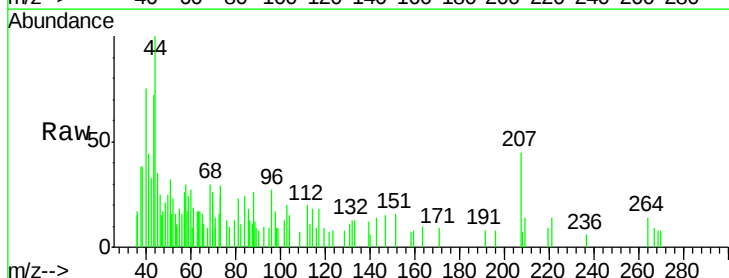
Tgt Ion: 88 Resp: 443

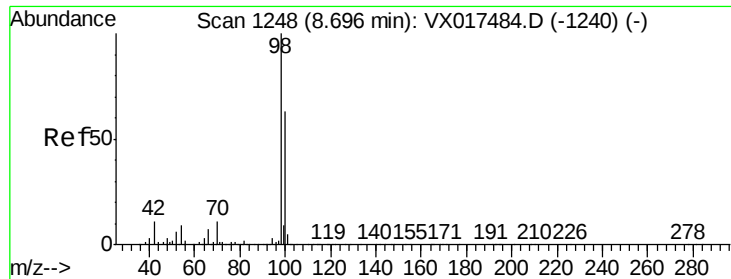
Ion Ratio Lower Upper

88 100

43 0.0 27.8 41.6#

58 47.6 58.3 87.5#

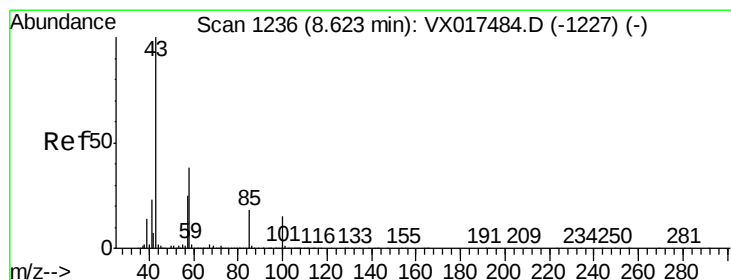
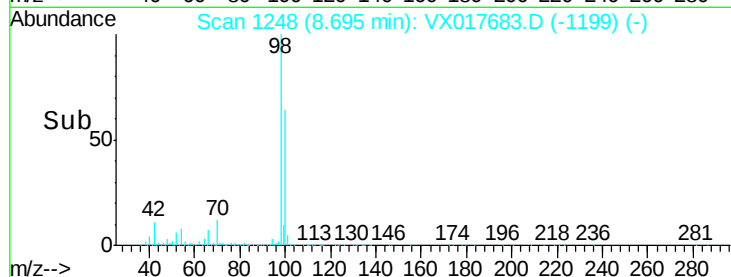
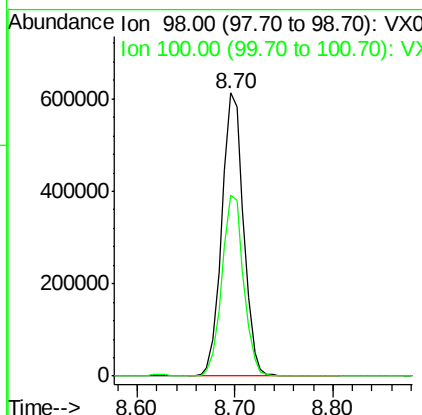
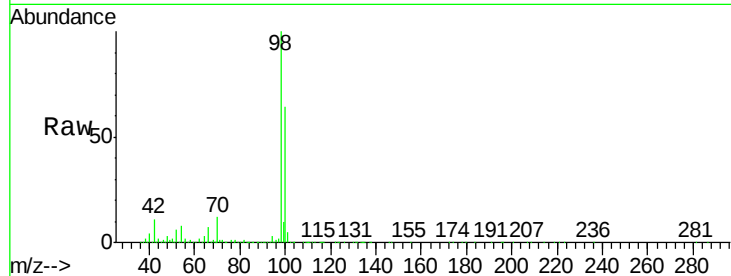




#50
Toluene-d8
Concen: 52.662 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017683.D
Acq: 30 Jul 2020 15:11

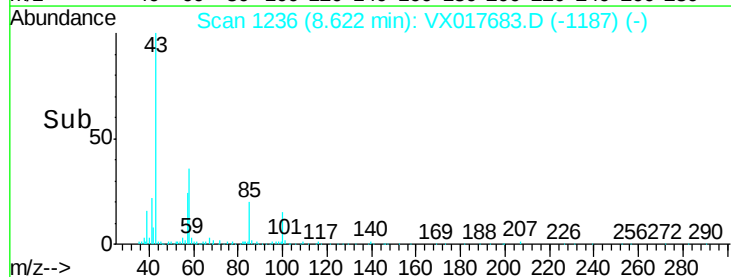
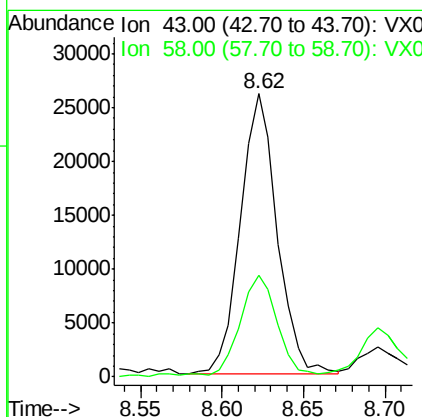
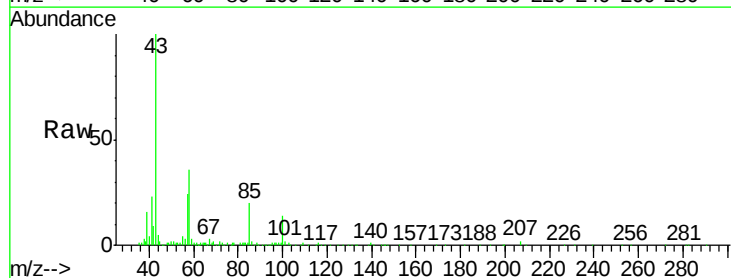
Instrument :
MSVOA_X
ClientSampleId :

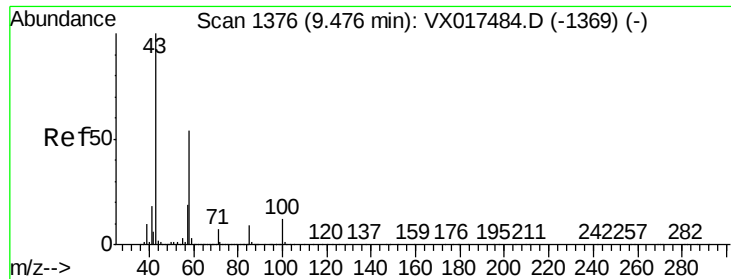
Tot Ion: 98 Resp: 944127
Ion Ratio Lower Upper
98 100
100 63.7 52.3 78.5



#51
4-Methyl-2-Pentanone
Concen: 5.309 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. -0.00 min
Lab File: VX017683.D
Acq: 30 Jul 2020 15:11

Tgt Ion: 43 Resp: 40754
Ion Ratio Lower Upper
43 100
58 36.7 31.0 46.4

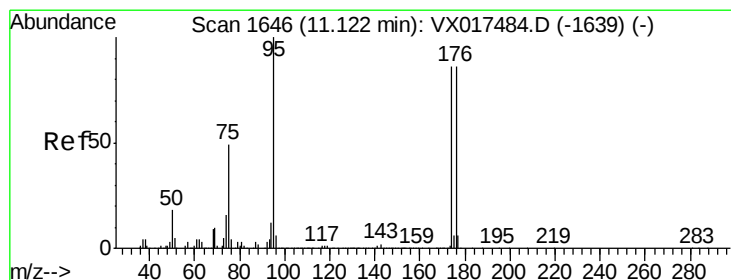
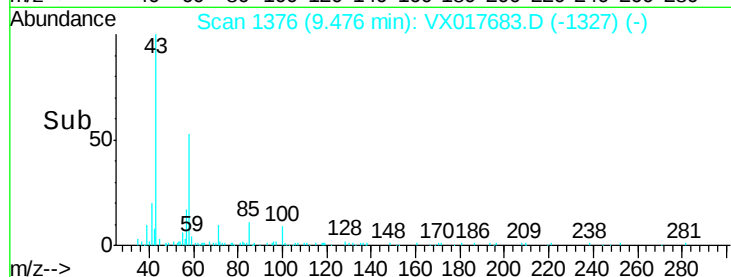
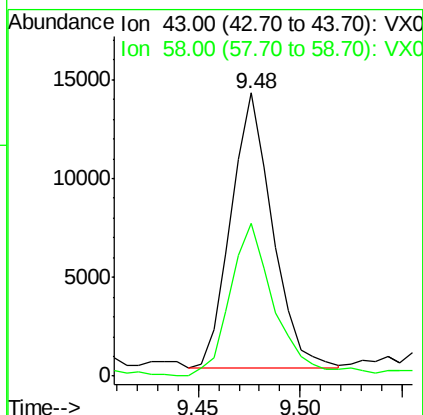
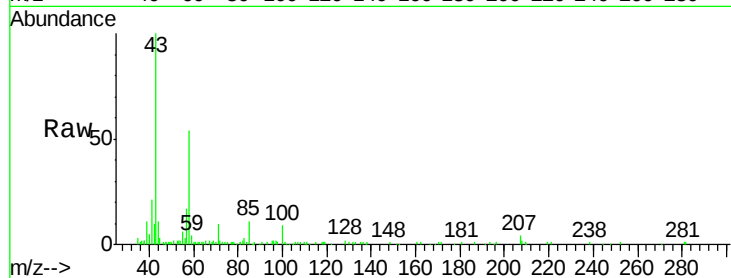




#59
2-Hexanone
Concen: 3.400 ug/l
RT: 9.48 min Scan# 1376
Delta R.T. -0.00 min
Lab File: VX017683.D
Acq: 30 Jul 2020 15:11

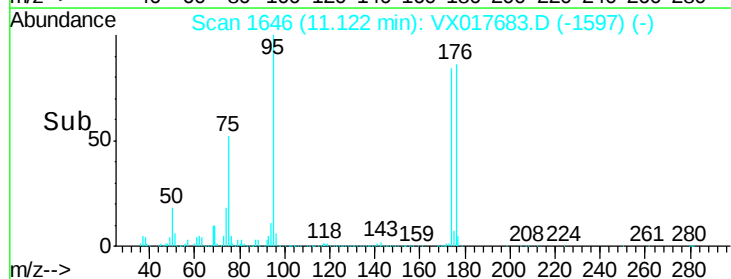
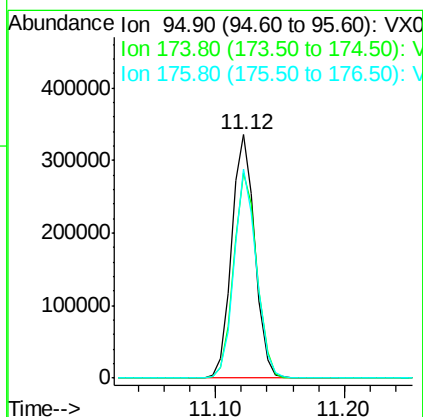
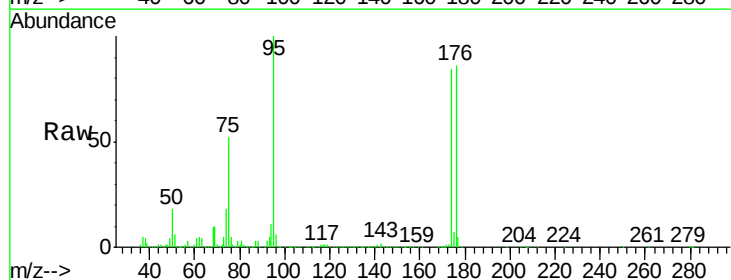
Instrument :
MSVOA_X
ClientSampleId :

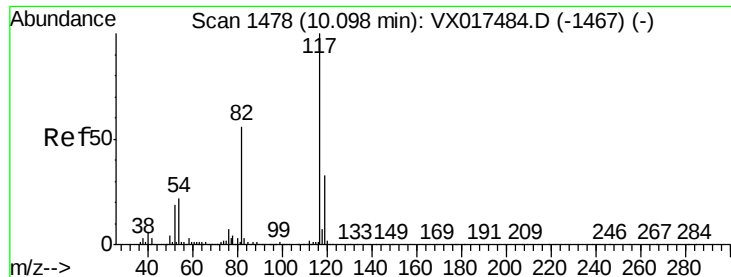
Tot Ion: 43 Resp: 19651
Ion Ratio Lower Upper
43 100
58 60.1 26.6 79.8



#62
4-Bromofluorobenzene
Concen: 58.748 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017683.D
Acq: 30 Jul 2020 15:11

Tgt Ion: 95 Resp: 421510
Ion Ratio Lower Upper
95 100
174 84.5 0.0 169.0
176 82.4 0.0 161.0

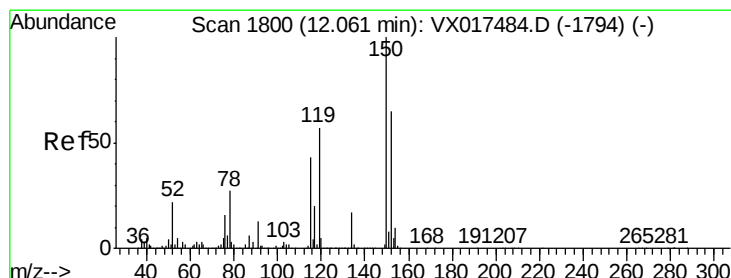
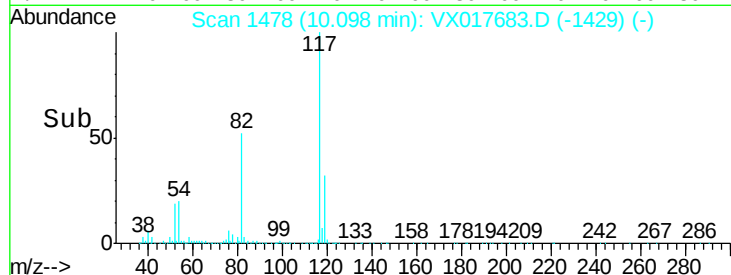
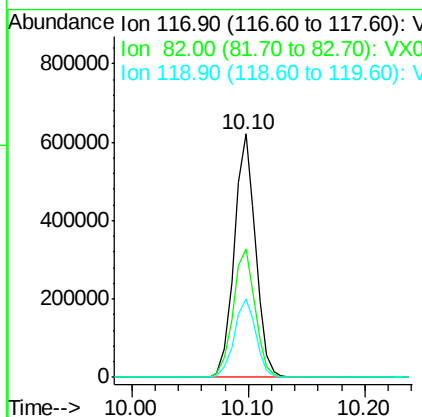
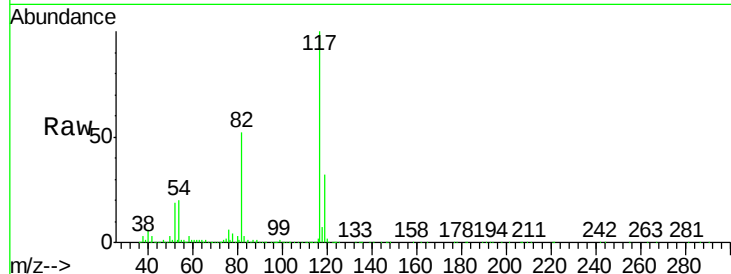




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017683.D
Acq: 30 Jul 2020 15:11

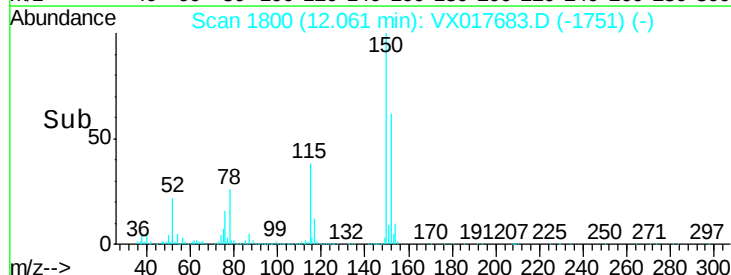
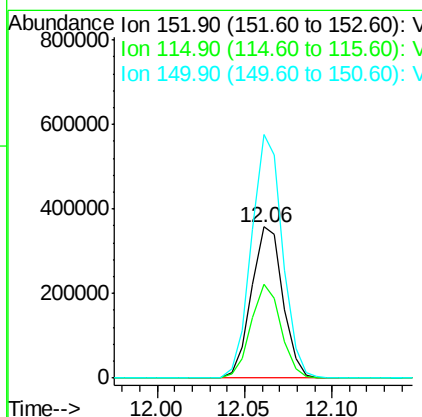
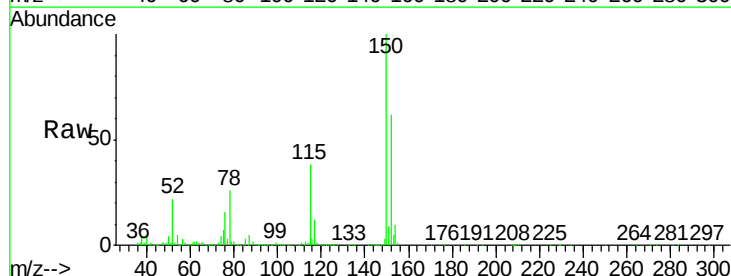
Instrument :
MSVOA_X
ClientSampleId :

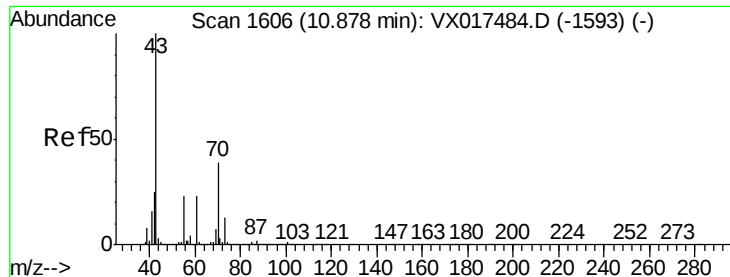
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.5	44.0	66.0
119	32.0	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017683.D
Acq: 30 Jul 2020 15:11

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.2	65.5	196.6#
150	158.1	0.0	412.6





#74

N-amvl acetate

Concen: 0.261 ug/l

RT: 10.91 min Scan# 1612

Delta R.T. 0.04 min

Lab File: VX017683.D

Acq: 30 Jul 2020 15:11

Instrument :

MSVOA_X

ClientSampled :

Tot Ion: 43 Resp: 3558

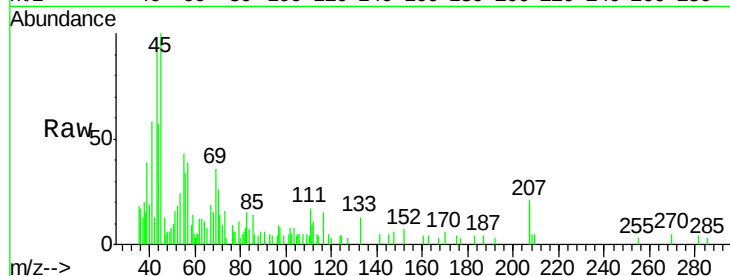
Ion Ratio Lower Upper

43 100

70 0.0 32.3 48.5#

55 0.0 18.4 27.6#

61 0.0 18.6 28.0#

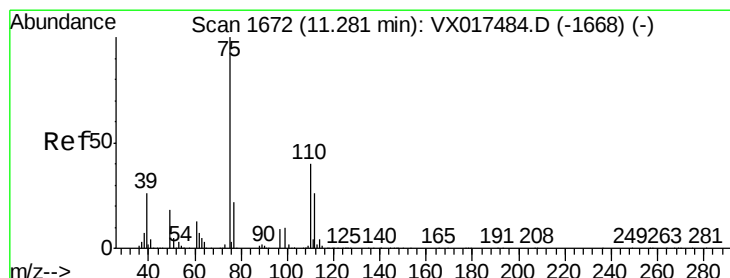
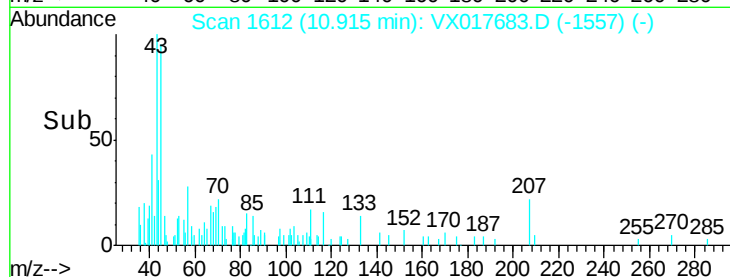
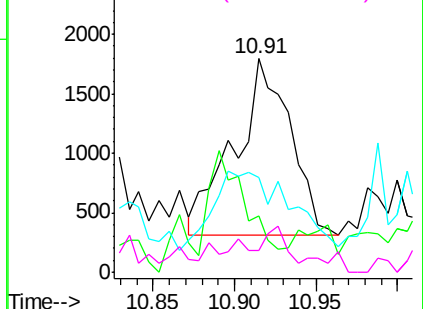


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0



#76

1,2,3-Trichloropropane

Concen: 23.532 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017683.D

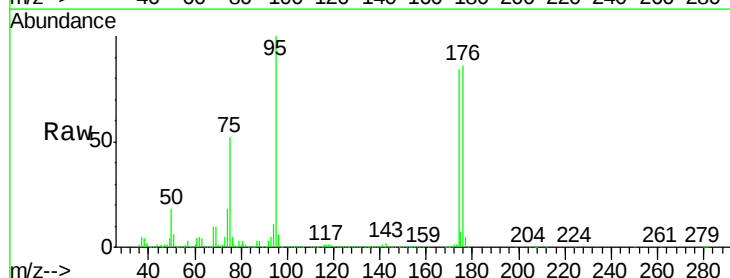
Acq: 30 Jul 2020 15:11

Tgt Ion: 75 Resp: 216865

Ion Ratio Lower Upper

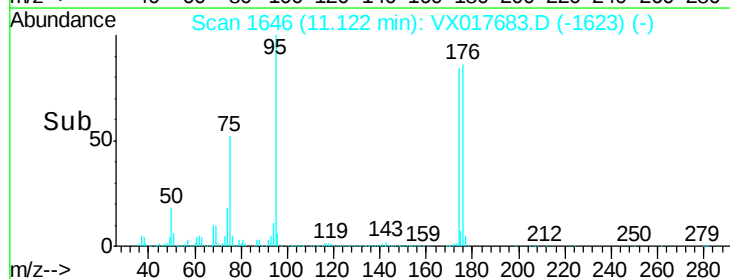
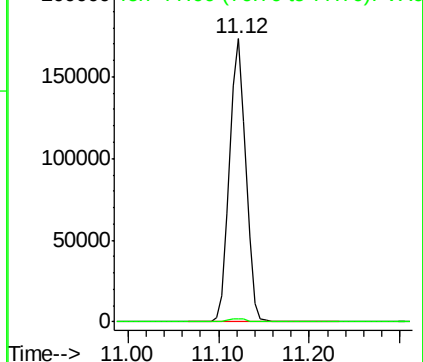
75 100

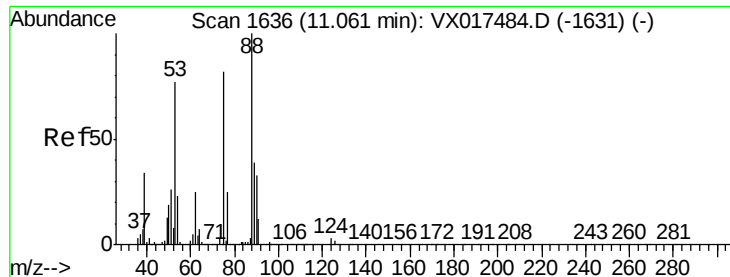
77 1.2 21.8 65.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

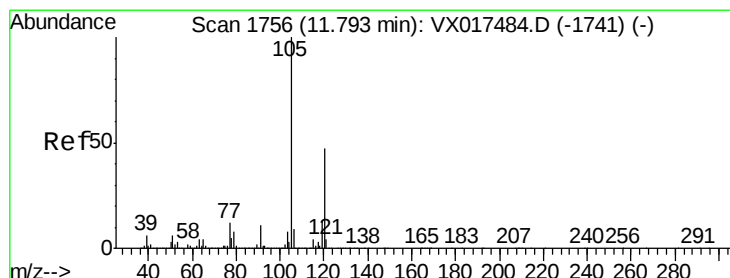
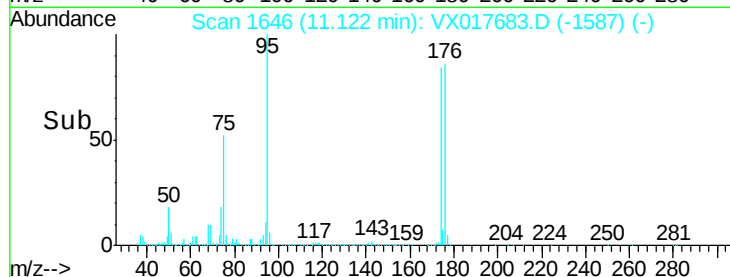
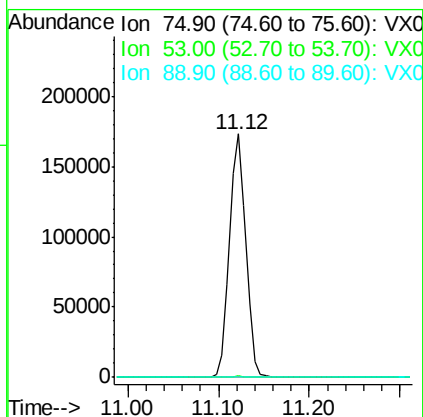
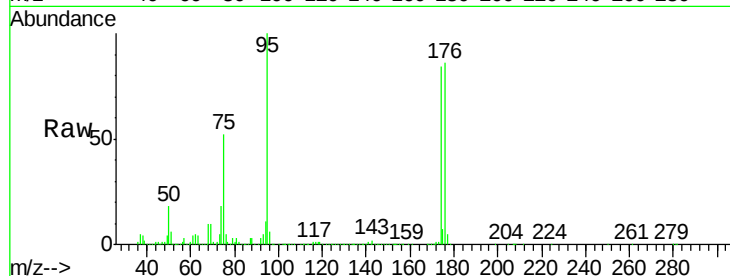




#81
trans-1,4-Dichloro-2-butene
Concen: 59.296 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.06 min
Lab File: VX017683.D
Acq: 30 Jul 2020 15:11

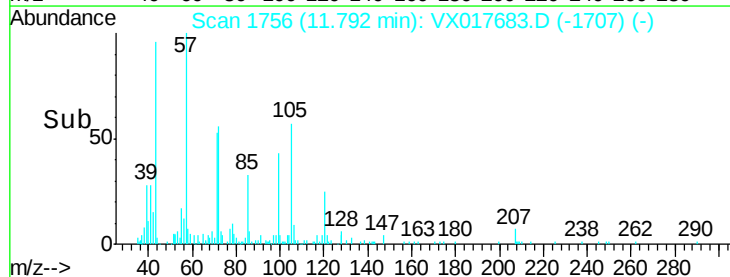
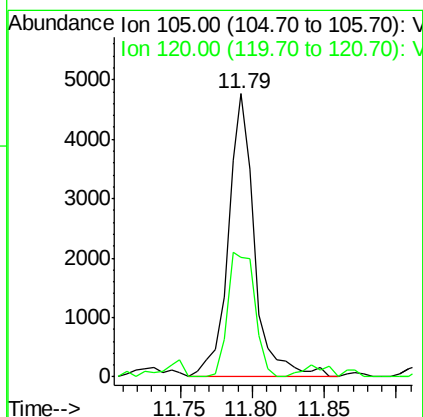
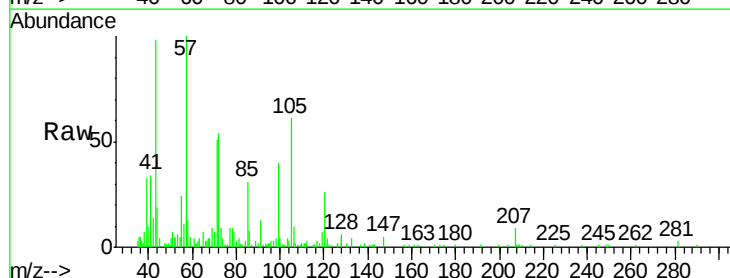
Instrument :
MSVOA_X
ClientSampleId :

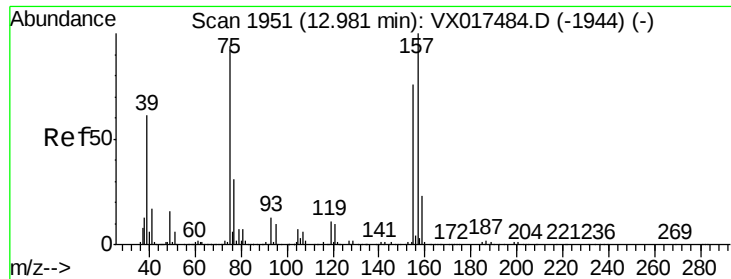
Tot Ion: 75 Resp: 216865
Ion Ratio Lower Upper
75 100
53 0.3 75.9 113.9#
89 0.1 37.8 56.6#



#84
1,2,4-Trimethylbenzene
Concen: 0.234 ug/l
RT: 11.79 min Scan# 1756
Delta R.T. -0.00 min
Lab File: VX017683.D
Acq: 30 Jul 2020 15:11

Tgt Ion:105 Resp: 6105
Ion Ratio Lower Upper
105 100
120 45.5 22.7 68.0





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.633 ug/l

RT: 12.98 min Scan# 1950

Delta R.T. -0.01 min

Lab File: VX017683.D

Acq: 30 Jul 2020 15:11

Instrument :

MSVOA_X

ClientSampleId :

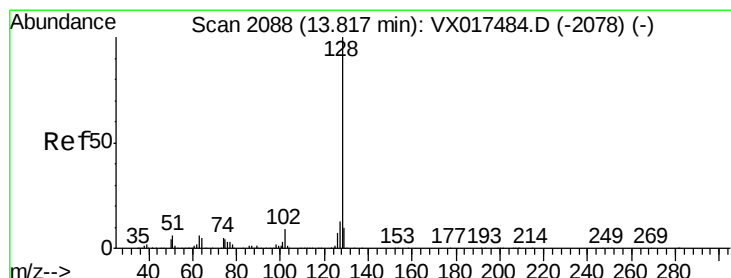
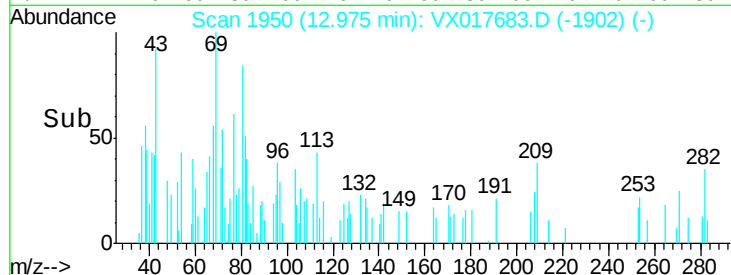
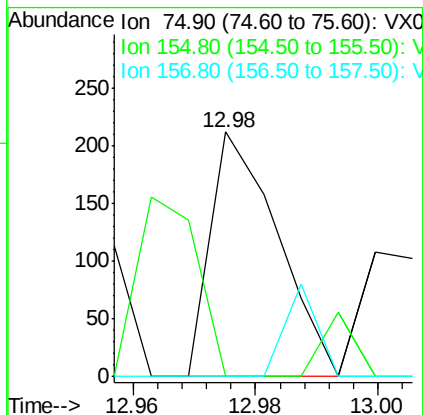
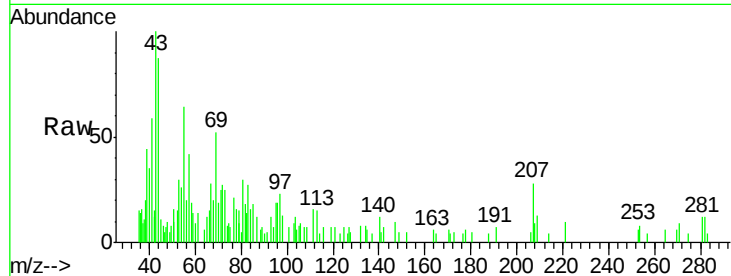
Tot Ion: 75 Resp: 160

Ion Ratio Lower Upper

75 100

155 12.5 42.3 126.8#

157 18.1 54.3 162.9#



#95

Naphthalene

Concen: 0.206 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX017683.D

Acq: 30 Jul 2020 15:11

Tgt Ion: 128 Resp: 6107

Ion Ratio Lower Upper

128 100

127 18.2 10.4 15.6#

129 18.3 8.9 13.3#

