

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX073020\
 Data File : VX017684.D
 Acq On : 30 Jul 2020 15:34
 Operator : JC/SP
 Sample : IBLK
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 31 05:36:46 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	5.63	168	466112	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	788831	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	831448	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	460384	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	324528	54.20	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	108.40%	
35) Dibromofluoromethane	5.47	113	268234	50.84	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.68%	
50) Toluene-d8	8.70	98	977270	51.35	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	102.70%	
62) 4-Bromofluorobenzene	11.12	95	429410	56.38	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	112.76%	

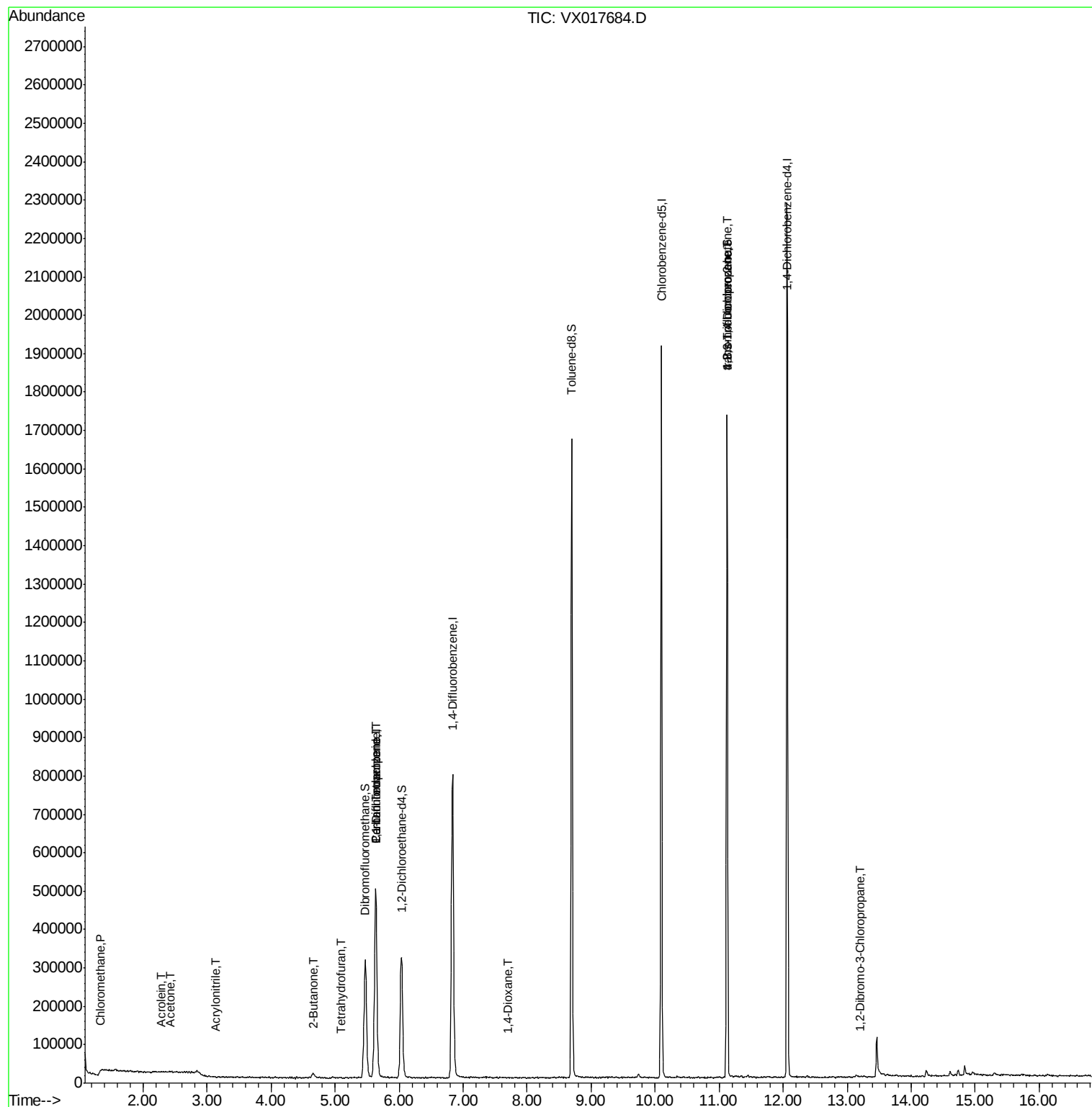
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	313	Below Cal	#	49
3) Chloromethane	1.32	50	701	0.488	ug/l #	63
5) Bromomethane	1.65	94	1043	Below Cal	#	3
6) Chloroethane	1.68	64	400	Below Cal	#	1
8) Diethyl Ether	2.10	74	251	Below Cal		58
13) Acrolein	2.28	56	809	4.974	ug/l #	29
15) Acrylonitrile	3.13	53	796	0.292	ug/l #	19
16) Acetone	2.42	43	2692	1.022	ug/l #	62
20) Methylene Chloride	2.84	84	3160	Below Cal	#	78
25) 2-Butanone	4.65	43	771	0.206	ug/l #	77
29) Tetrahydrofuran	5.09	42	549	0.237	ug/l #	79
36) 1,1-Dichloropropene	5.63	75	35443	4.685	ug/l #	41
38) Carbon Tetrachloride	5.64	117	49482	5.386	ug/l #	16
49) 1,4-Dioxane	7.70	88	55	0.424	ug/l #	22
76) 1,2,3-Trichloropropane	11.12	75	217915	23.010	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	217915	57.981	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.21	75	111	2.614	ug/l	63

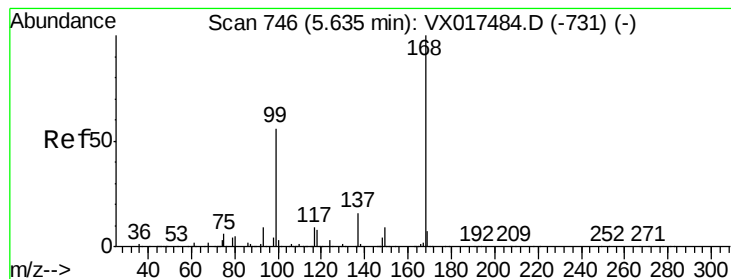
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017684.D

Acq: 30 Jul 2020 15:34

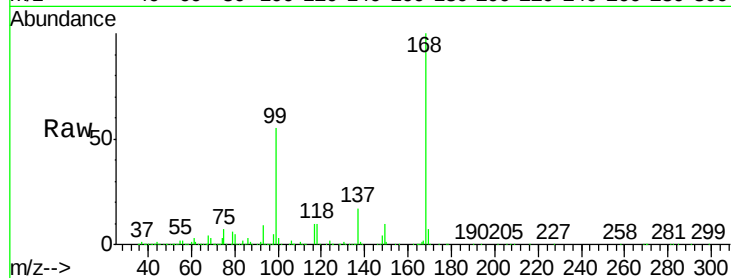
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 466112

Ion Ratio Lower Upper

168 100

99 54.8 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

150000

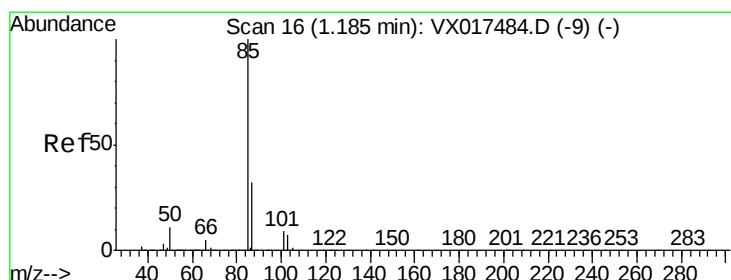
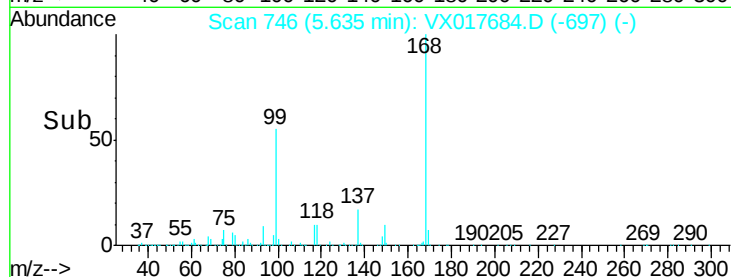
100000

50000

0

Time-->

5.50 5.60 5.70



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 19

Delta R.T. 0.02 min

Lab File: VX017684.D

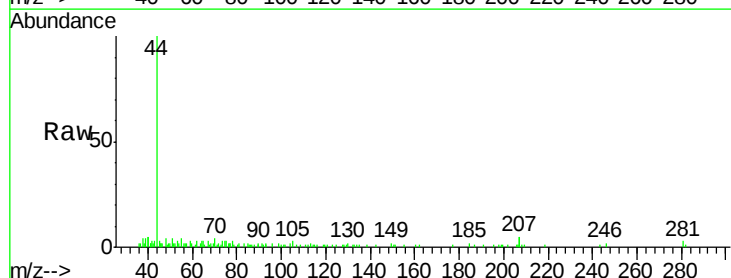
Acq: 30 Jul 2020 15:34

Tgt Ion: 85 Resp: 313

Ion Ratio Lower Upper

85 100

87 60.5 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

300

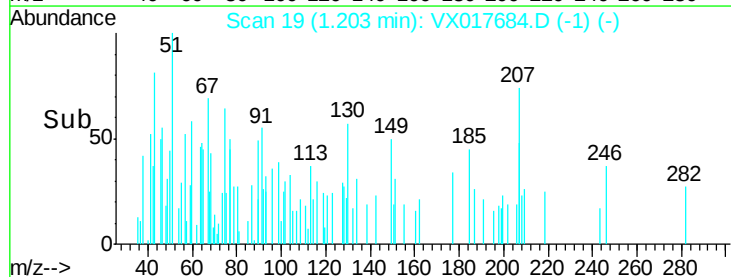
200

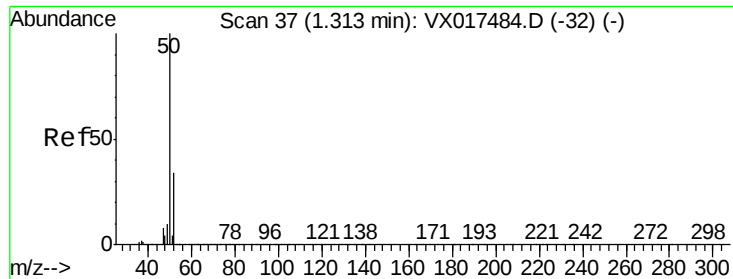
100

0

Time-->

1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.488 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017684.D

Acq: 30 Jul 2020 15:34

Instrument :

MSVOA_X

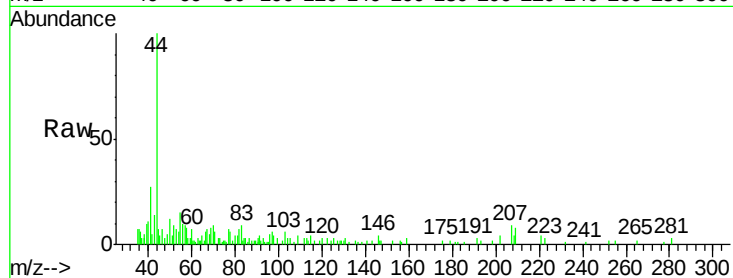
ClientSampled :

Tot Ion: 50 Resp: 701

Ion Ratio Lower Upper

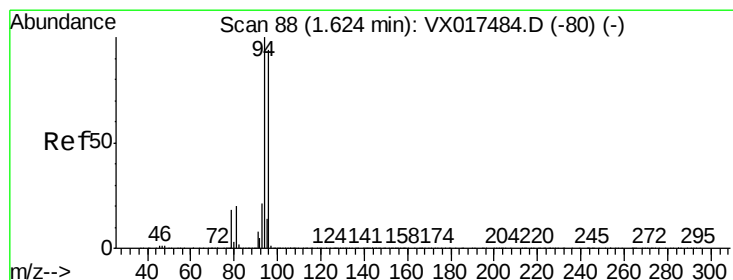
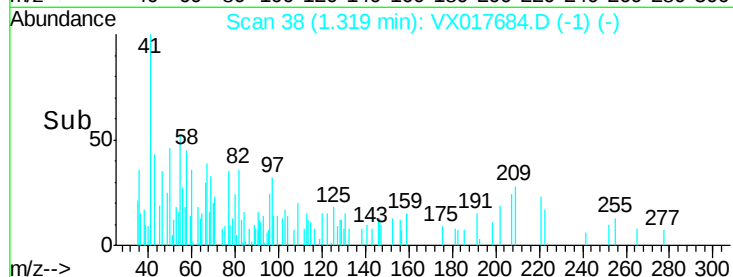
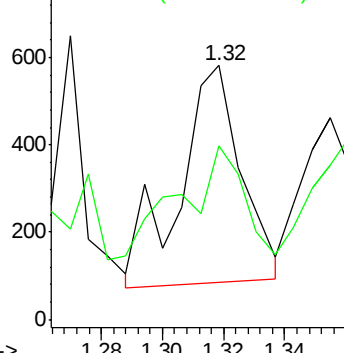
50 100

52 53.2 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: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX017684.D

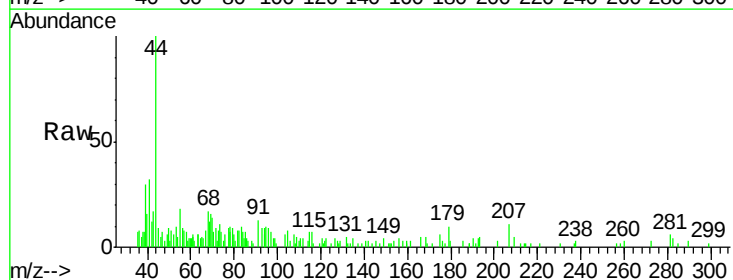
Acq: 30 Jul 2020 15:34

Tgt Ion: 94 Resp: 1043

Ion Ratio Lower Upper

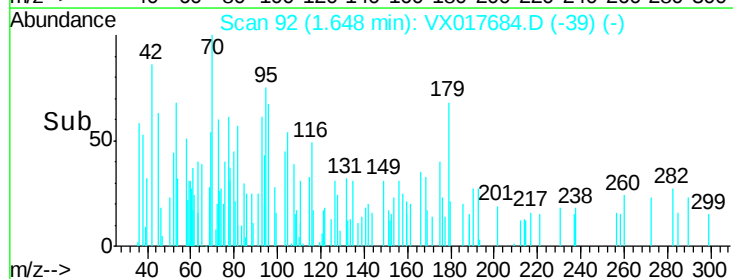
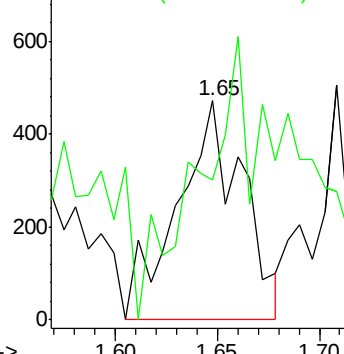
94 100

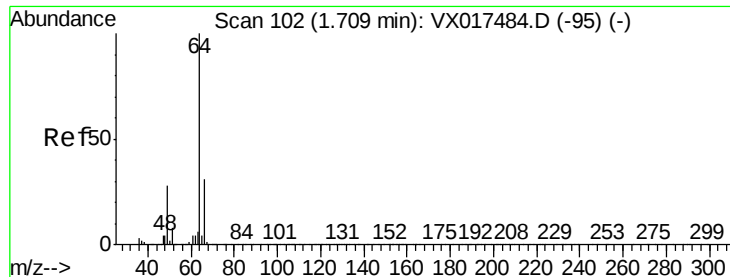
96 0.0 74.1 111.1#



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: 1.68 min Scan# 97

Delta R.T. -0.03 min

Lab File: VX017684.D

Acq: 30 Jul 2020 15:34

Instrument :

MSVOA_X

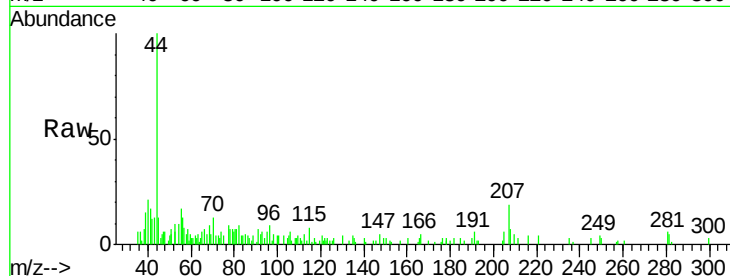
ClientSampled :

Tot Ion: 64 Resp: 400

Ion Ratio Lower Upper

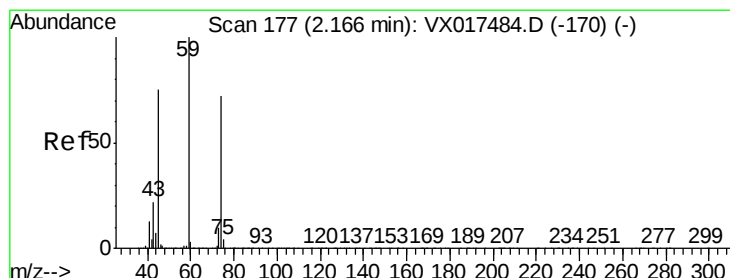
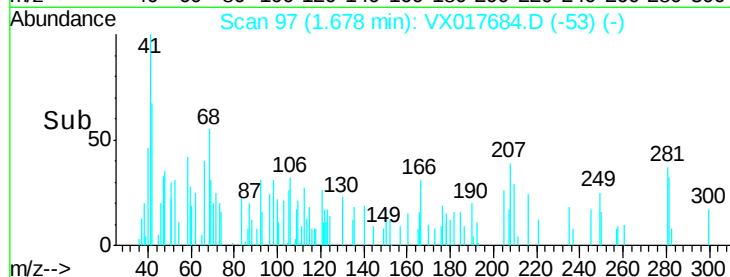
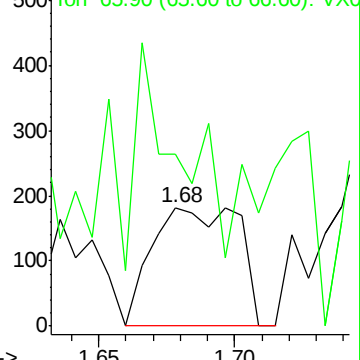
64 100

66 97.8 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: 2.10 min Scan# 166

Delta R.T. -0.07 min

Lab File: VX017684.D

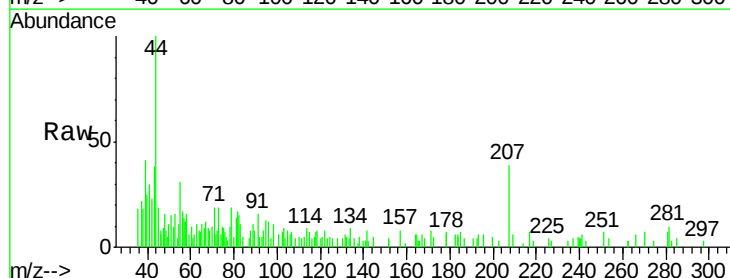
Acq: 30 Jul 2020 15:34

Tgt Ion: 74 Resp: 251

Ion Ratio Lower Upper

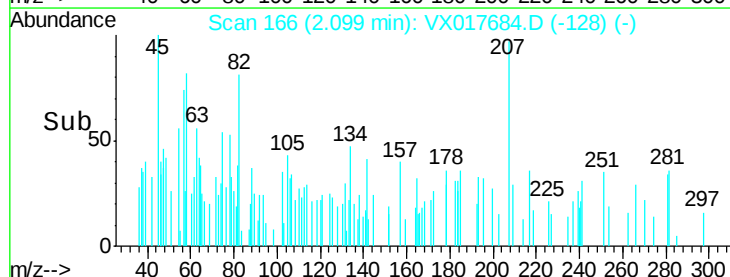
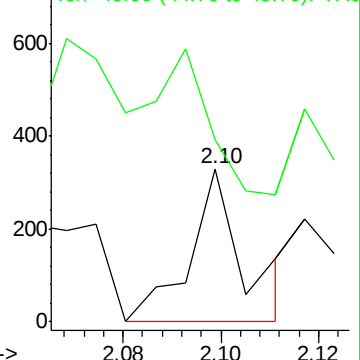
74 100

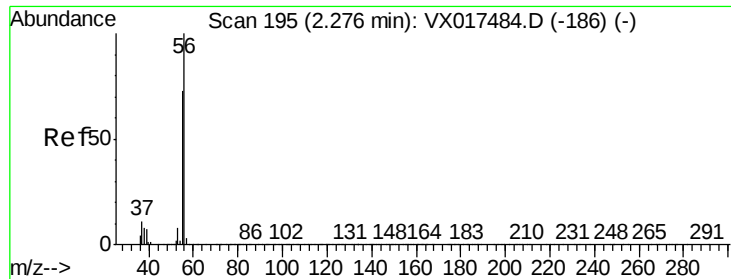
45 59.0 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

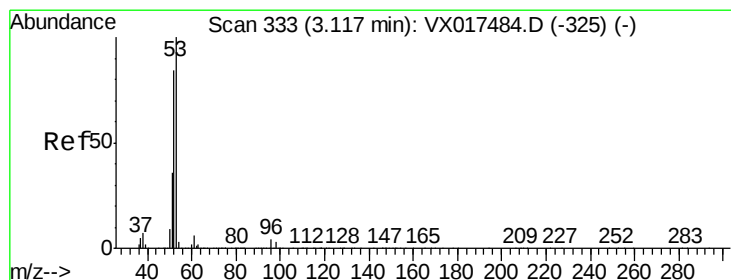
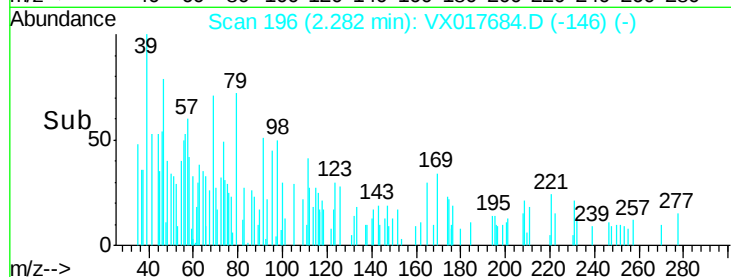
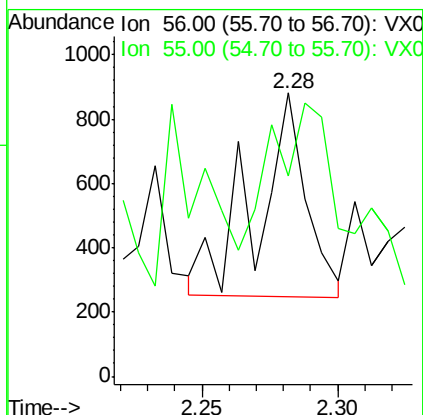
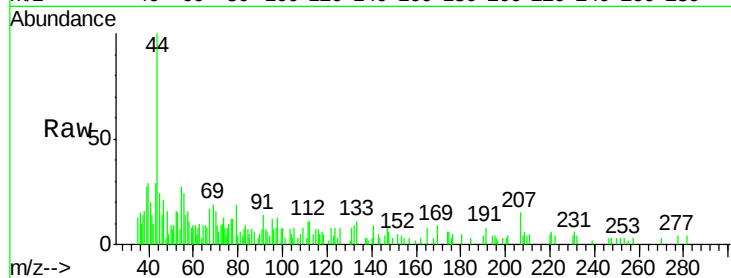




#13
Acrolein
Concen: 4.974 ug/l
RT: 2.28 min Scan# 196
Delta R.T. 0.01 min
Lab File: VX017684.D
Acq: 30 Jul 2020 15:34

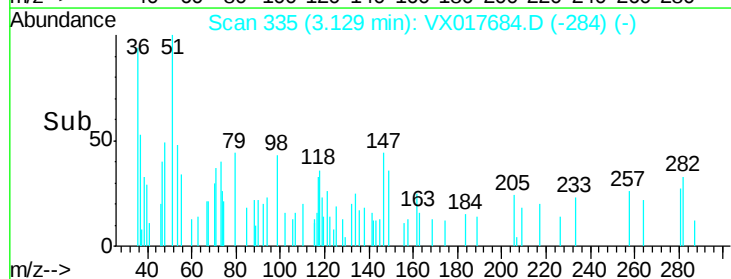
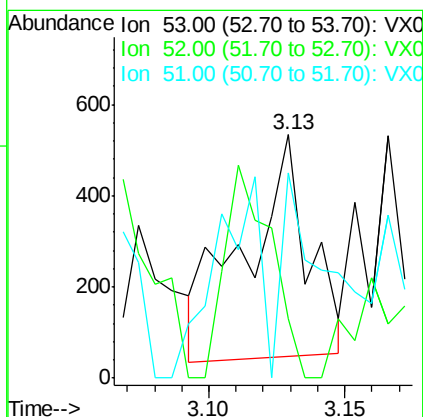
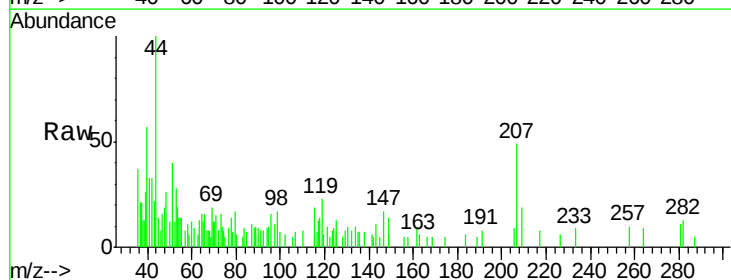
Instrument :
MSVOA_X
ClientSampleId :

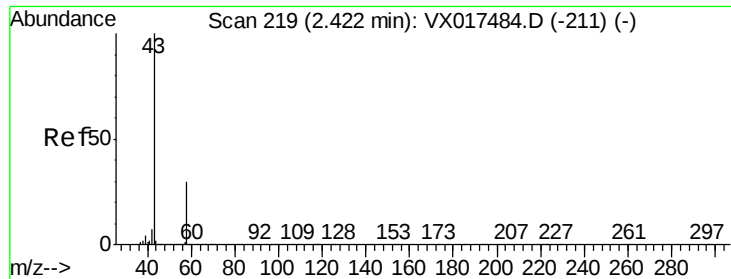
Tot Ion: 56 Resp: 809
Ion Ratio Lower Upper
56 100
55 130.9 57.4 86.2#



#15
Acrylonitrile
Concen: 0.292 ug/l
RT: 3.13 min Scan# 335
Delta R.T. 0.01 min
Lab File: VX017684.D
Acq: 30 Jul 2020 15:34

Tgt Ion: 53 Resp: 796
Ion Ratio Lower Upper
53 100
52 0.0 66.6 99.8#
51 70.4 29.4 44.2#

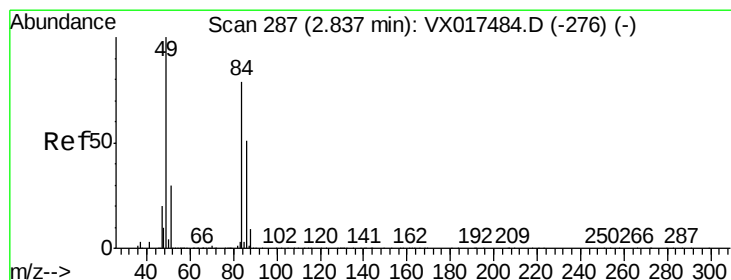
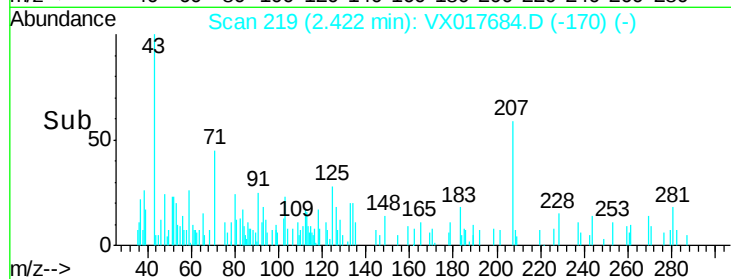
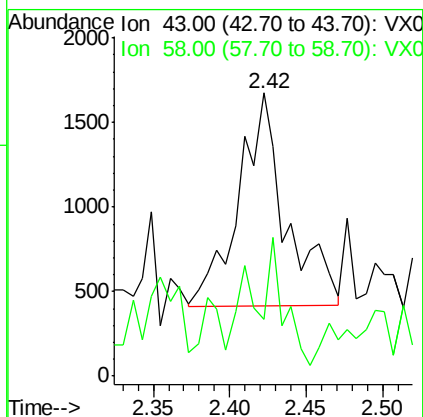
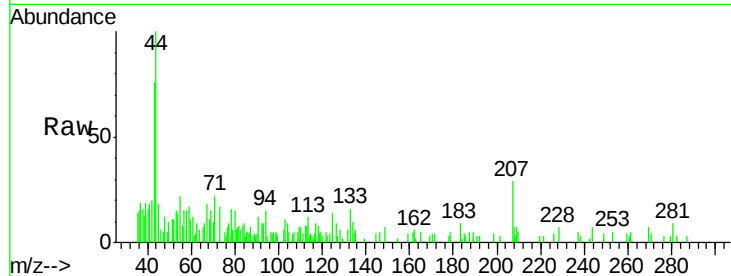




#16
Acetone
Concen: 1.022 ug/l
RT: 2.42 min Scan# 219
Delta R.T. -0.00 min
Lab File: VX017684.D
Acq: 30 Jul 2020 15:34

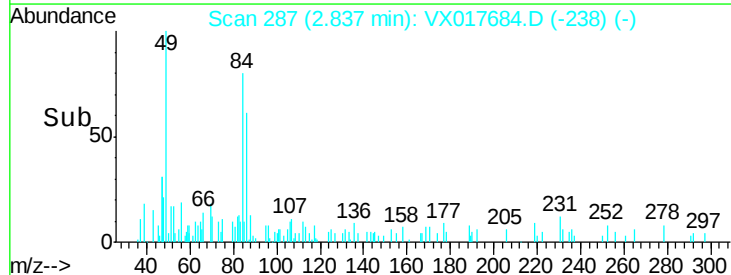
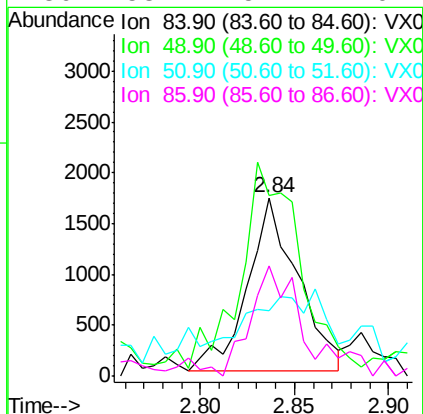
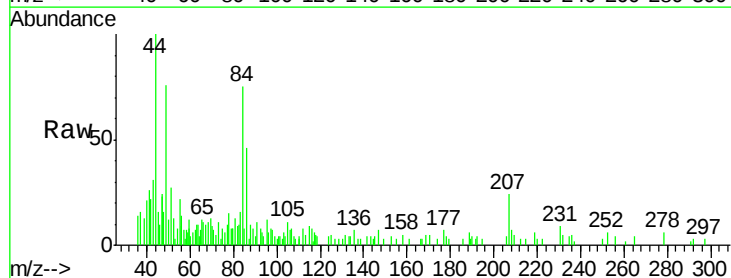
Instrument :
MSVOA_X
ClientSampled :

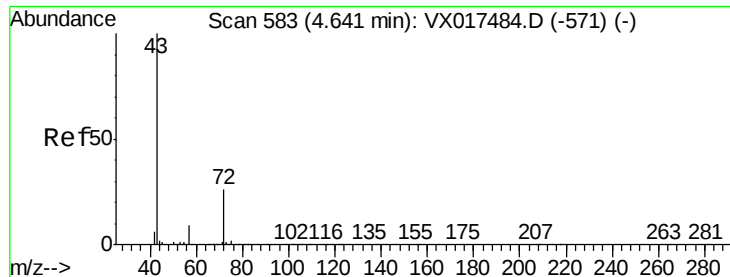
Tot Ion: 43 Resp: 2692
Ion Ratio Lower Upper
43 100
58 9.8 24.2 36.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017684.D
Acq: 30 Jul 2020 15:34

Tgt Ion: 84 Resp: 3160
Ion Ratio Lower Upper
84 100
49 99.4 100.3 150.5#
51 19.3 30.5 45.7#
86 53.1 51.1 76.7

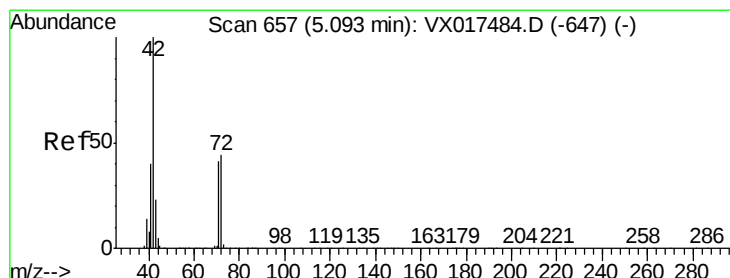
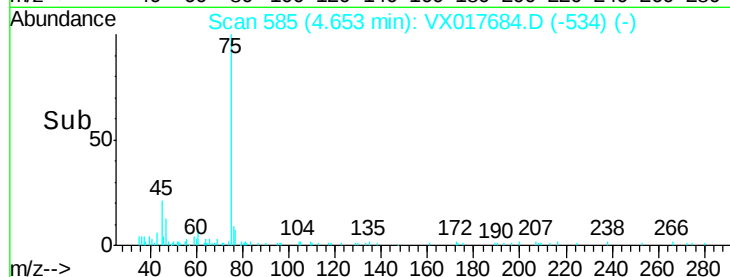
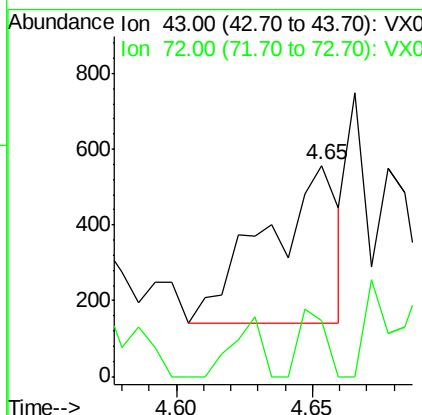
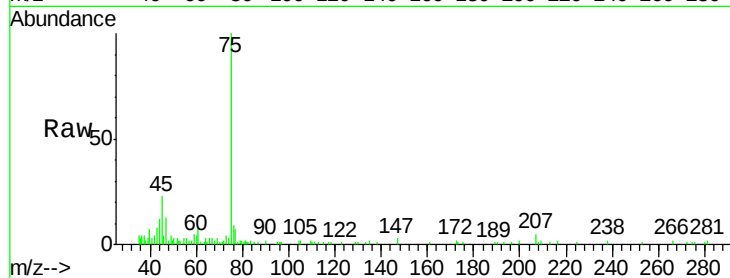




#25
2-Butanone
Concen: 0.206 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.01 min
Lab File: VX017684.D
Acq: 30 Jul 2020 15:34

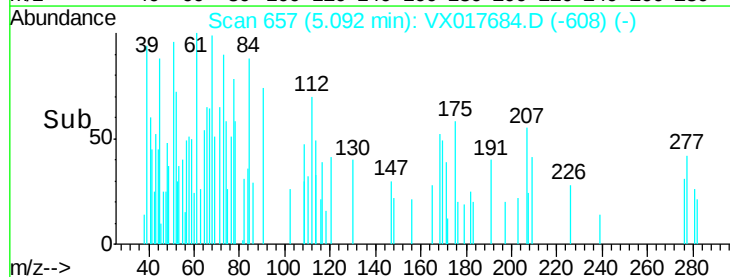
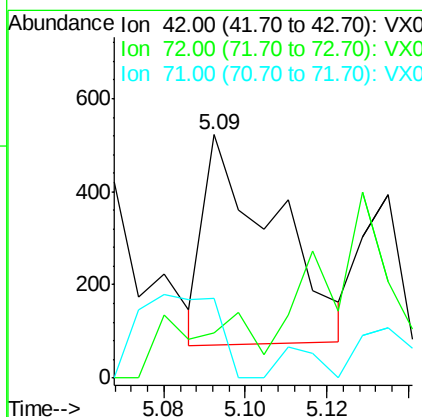
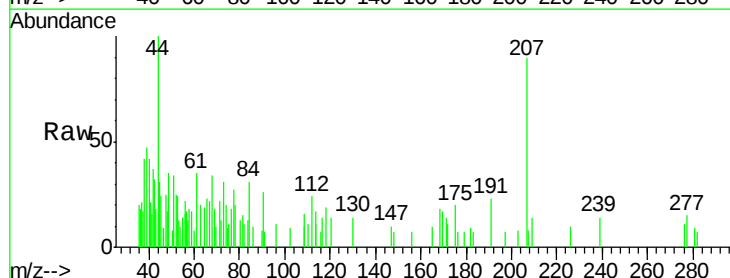
Instrument :
MSVOA_X
ClientSampled :

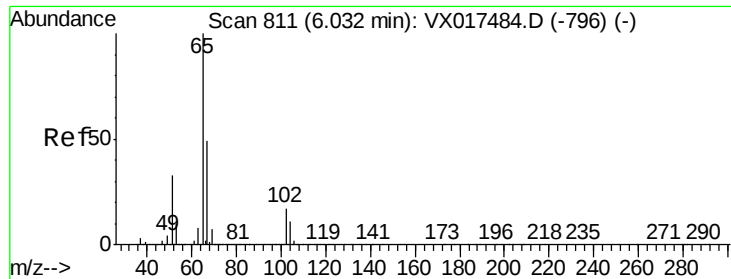
Tot Ion: 43 Resp: 771
Ion Ratio Lower Upper
43 100
72 35.0 19.0 28.4#



#29
Tetrahydrofuran
Concen: 0.237 ug/l
RT: 5.09 min Scan# 657
Delta R.T. -0.00 min
Lab File: VX017684.D
Acq: 30 Jul 2020 15:34

Tgt Ion: 42 Resp: 549
Ion Ratio Lower Upper
42 100
72 21.1 35.5 53.3#
71 44.1 33.0 49.4





#33

1,2-Dichloroethane-d4

Concen: 54.202 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017684.D

Acq: 30 Jul 2020 15:34

Instrument :

MSVOA_X

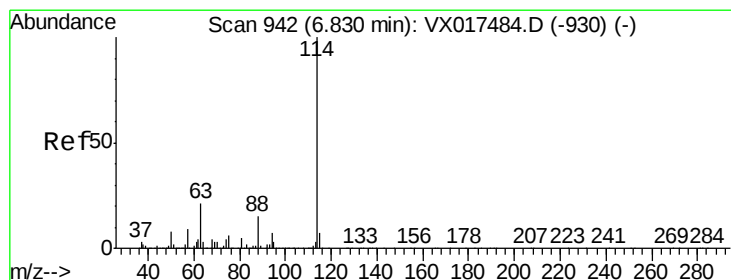
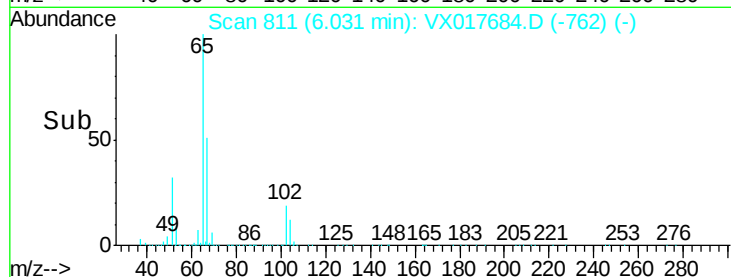
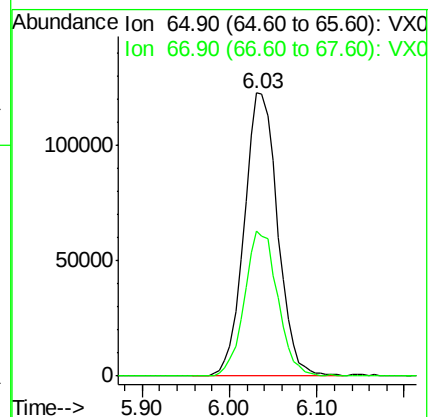
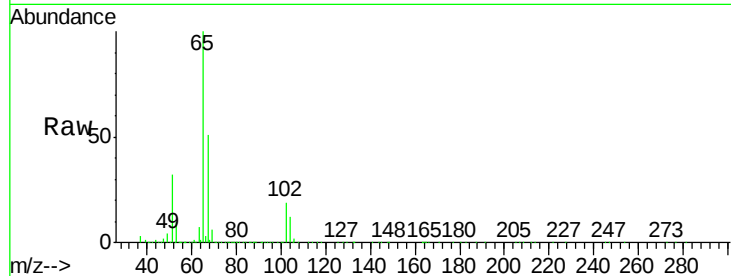
ClientSampleId :

Tot Ion: 65 Resp: 324528

Ion Ratio Lower Upper

65 100

67 51.1 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: VX017684.D

Acq: 30 Jul 2020 15:34

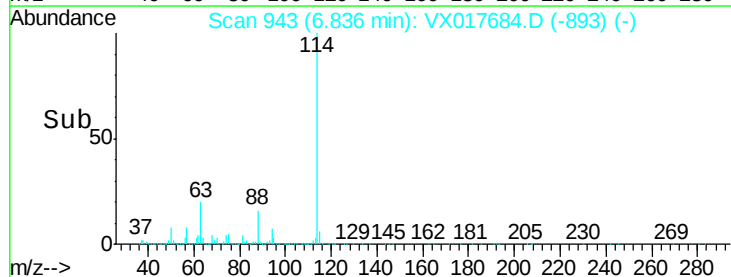
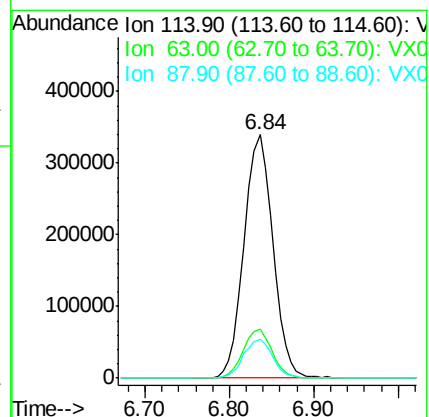
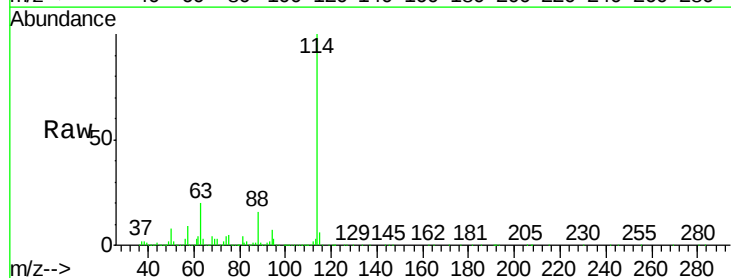
Tgt Ion: 114 Resp: 788831

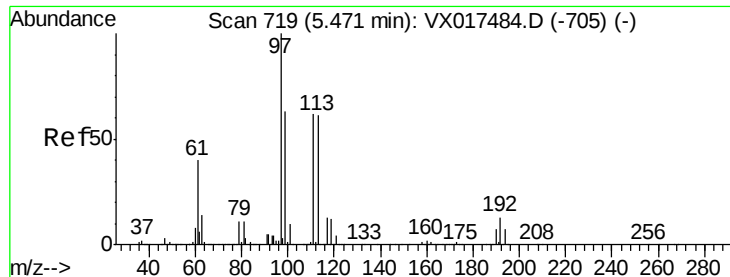
Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.6

88 15.8 0.0 33.4

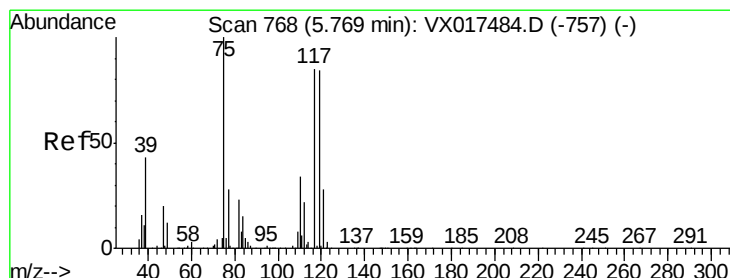
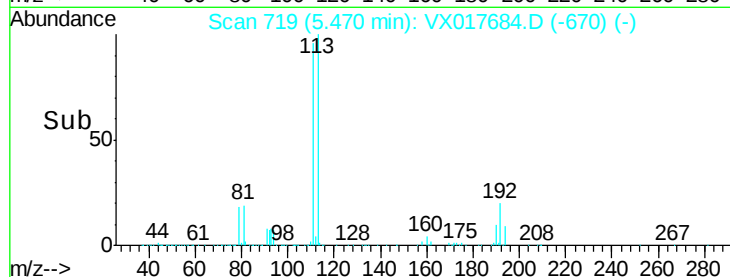
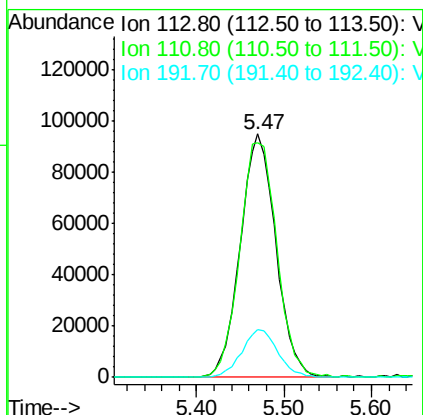
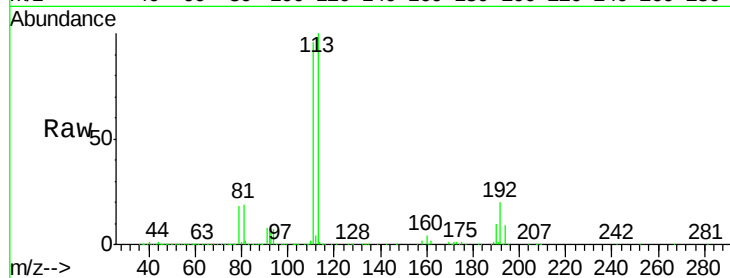




#35
 Dibromofluoromethane
 Concen: 50.843 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX017684.D
 Acq: 30 Jul 2020 15:34

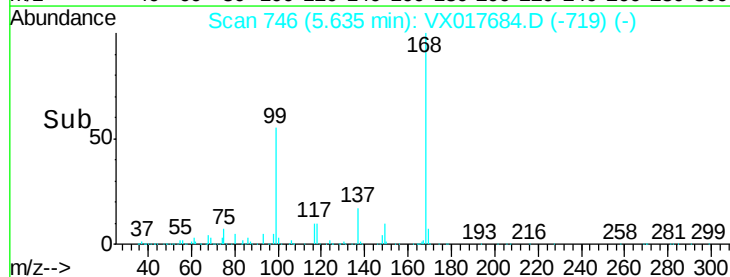
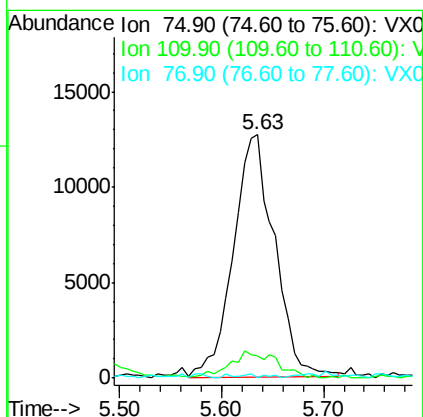
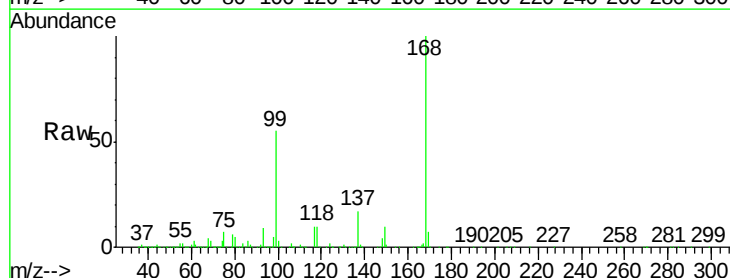
Instrument :
 MSVOA_X
 ClientSampleId :

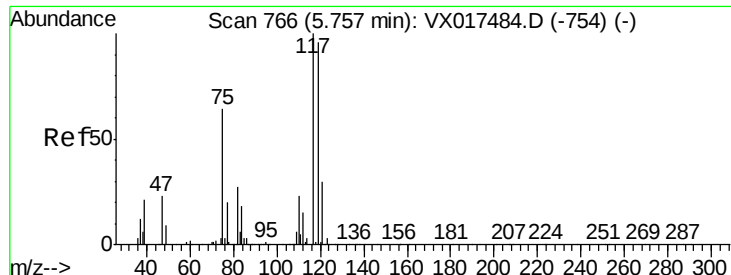
Tot Ion:113 Resp: 268234
 Ion Ratio Lower Upper
 113 100
 111 101.2 80.7 121.1
 192 20.1 16.9 25.3



#36
 1,1-Dichloropropene
 Concen: 4.685 ug/l
 RT: 5.63 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX017684.D
 Acq: 30 Jul 2020 15:34

Tgt Ion: 75 Resp: 35443
 Ion Ratio Lower Upper
 75 100
 110 0.0 18.1 54.3#
 77 0.4 24.6 37.0#

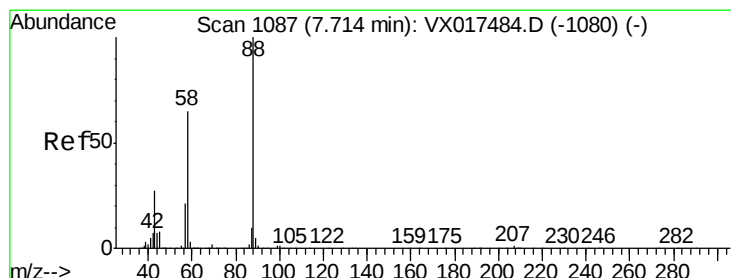
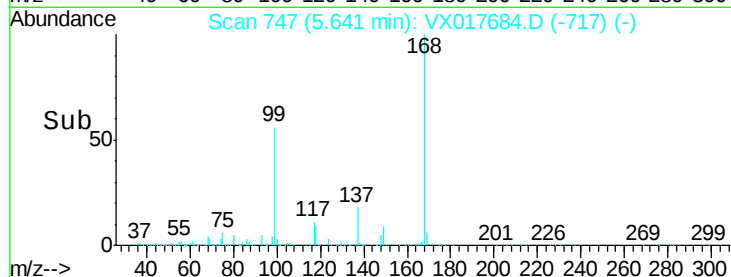
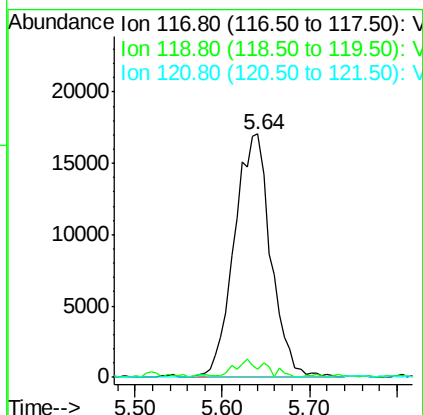
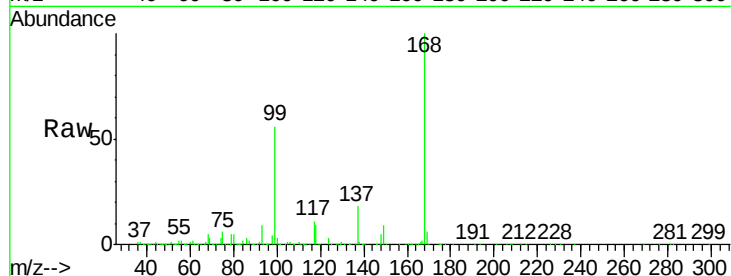




#38
Carbon Tetrachloride
Concen: 5.386 ug/l
RT: 5.64 min Scan# 747
Delta R.T. -0.12 min
Lab File: VX017684.D
Acq: 30 Jul 2020 15:34

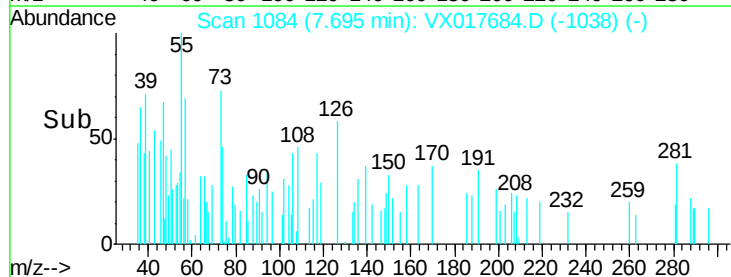
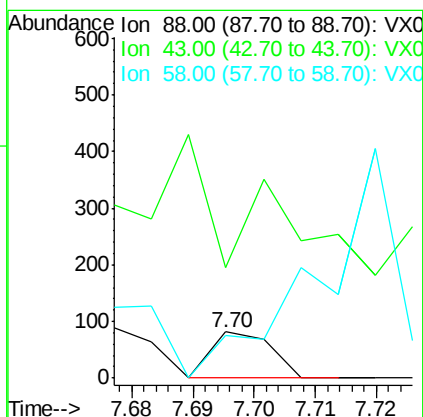
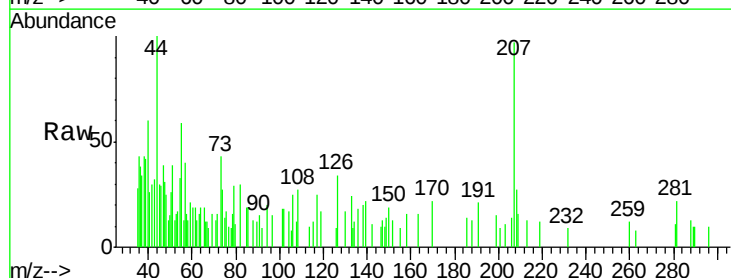
Instrument :
MSVOA_X
ClientSampled :

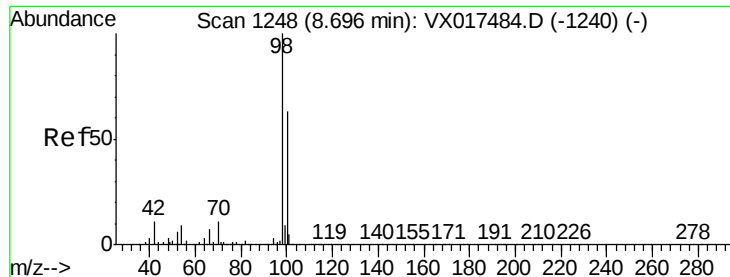
Tot Ion:117 Resp: 49482
Ion Ratio Lower Upper
117 100
119 4.5 75.4 113.0#
121 0.0 24.3 36.5#



#49
1,4-Dioxane
Concen: 0.424 ug/l
RT: 7.70 min Scan# 1084
Delta R.T. -0.02 min
Lab File: VX017684.D
Acq: 30 Jul 2020 15:34

Tgt Ion: 88 Resp: 55
Ion Ratio Lower Upper
88 100
43 0.0 27.8 41.6#
58 0.0 58.3 87.5#





#50

Toluene-d8

Concen: 51.348 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017684.D

Acq: 30 Jul 2020 15:34

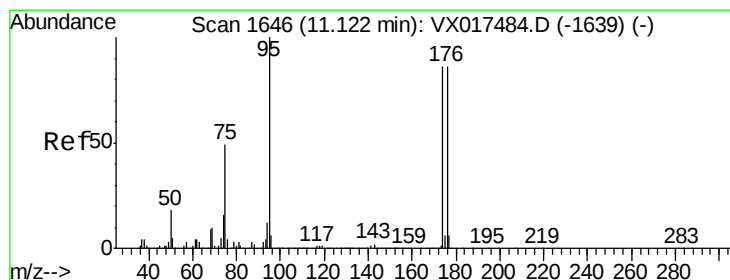
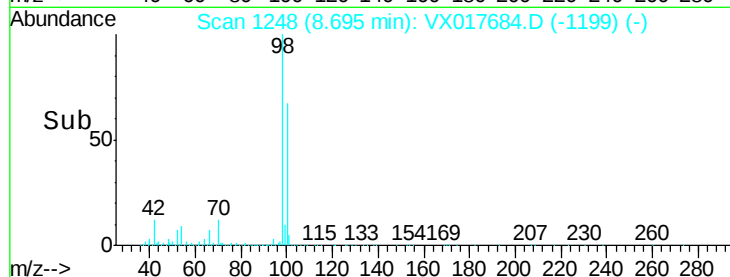
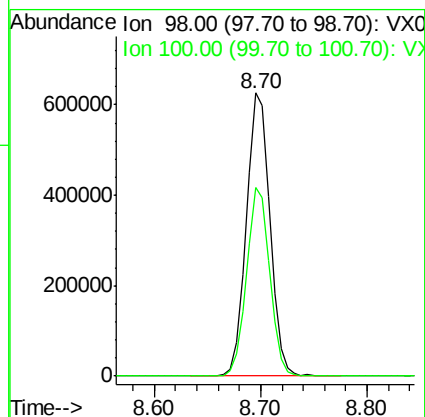
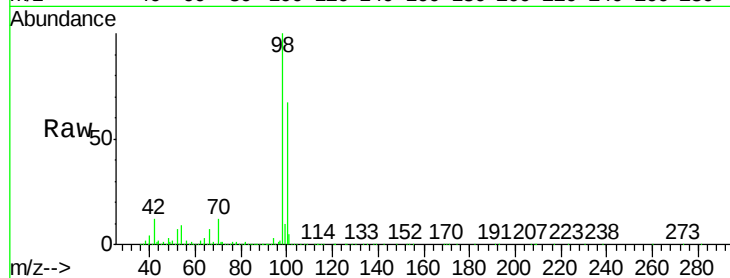
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 977270

Ion Ratio Lower Upper

98 100

100 65.3 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 56.377 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017684.D

Acq: 30 Jul 2020 15:34

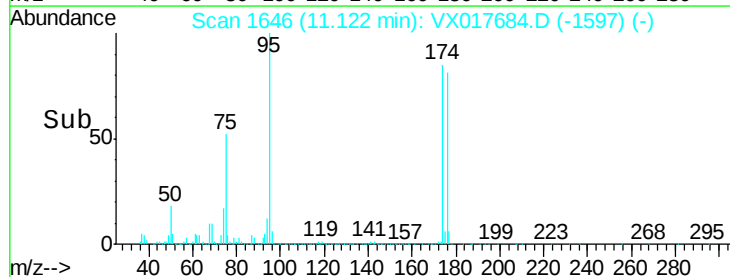
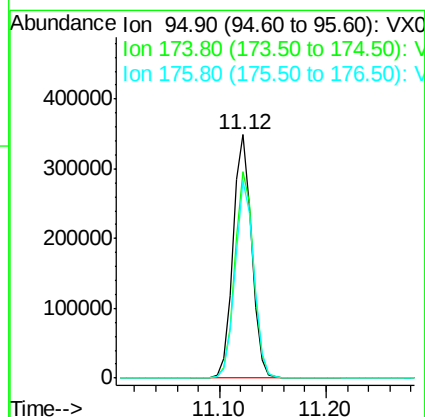
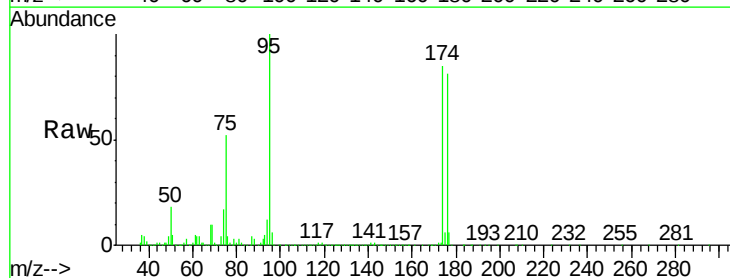
Tgt Ion: 95 Resp: 429410

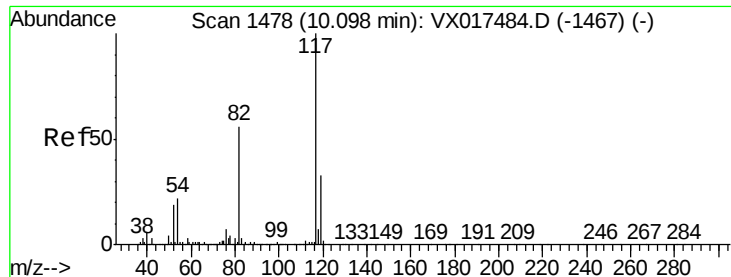
Ion Ratio Lower Upper

95 100

174 85.3 0.0 169.0

176 81.1 0.0 161.0

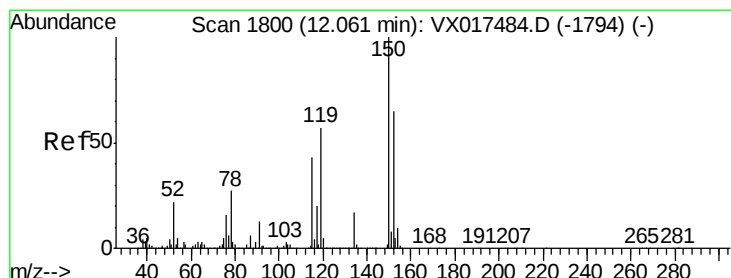
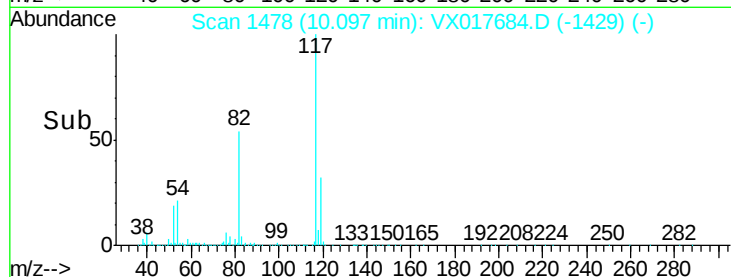
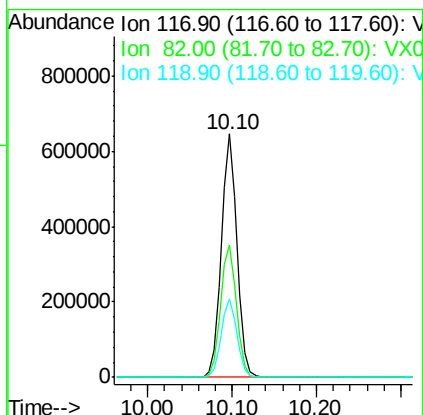
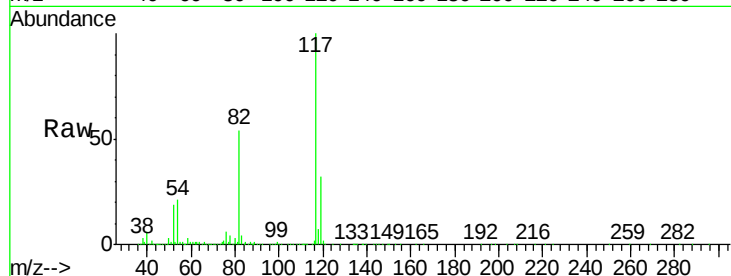




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017684.D
Acq: 30 Jul 2020 15:34

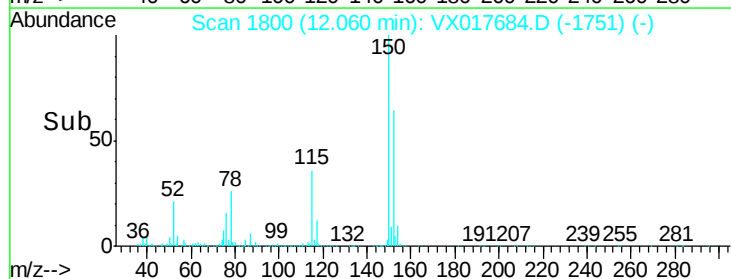
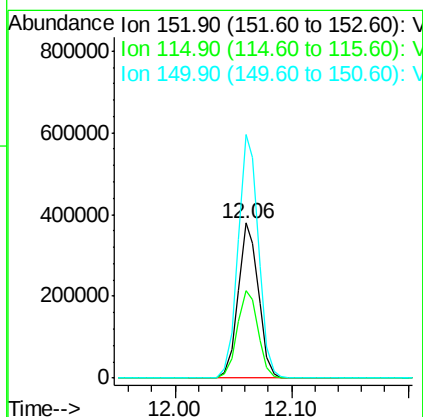
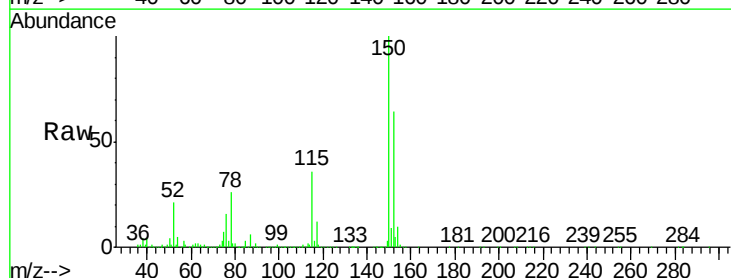
Instrument :
MSVOA_X
ClientSampleId :

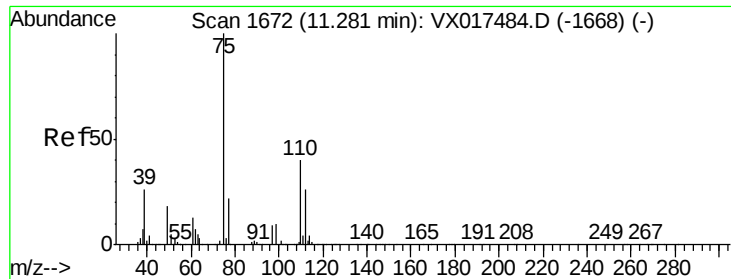
Tot Ion:117 Resp: 831448
Ion Ratio Lower Upper
117 100
82 54.4 44.0 66.0
119 32.2 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017684.D
Acq: 30 Jul 2020 15:34

Tgt Ion:152 Resp: 460384
Ion Ratio Lower Upper
152 100
115 57.8 65.5 196.6#
150 157.2 0.0 412.6





#76

1,2,3-Trichloropropane

Concen: 23.010 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017684.D

Acq: 30 Jul 2020 15:34

Instrument :

MSVOA_X

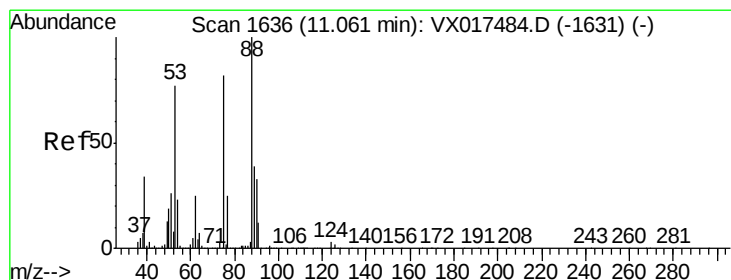
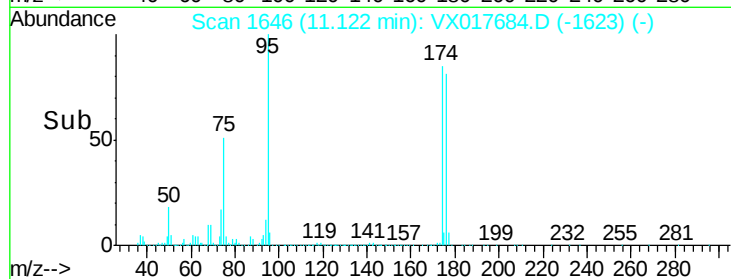
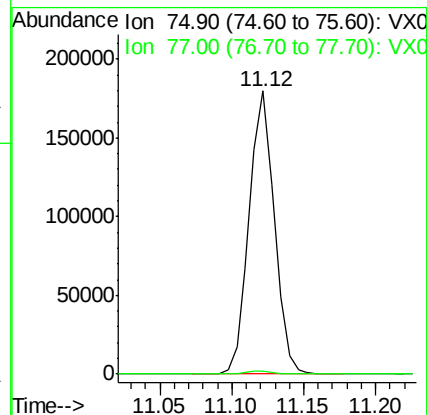
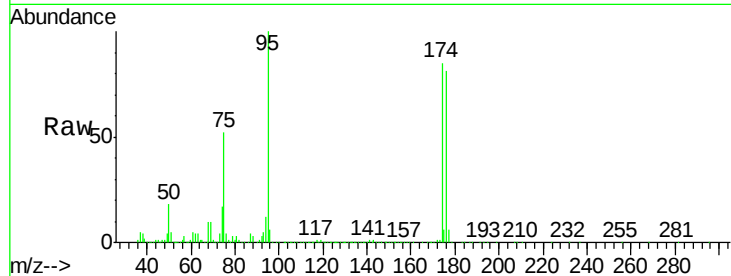
ClientSampled :

Tot Ion: 75 Resp: 217915

Ion Ratio Lower Upper

75 100

77 1.1 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.981 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017684.D

Acq: 30 Jul 2020 15:34

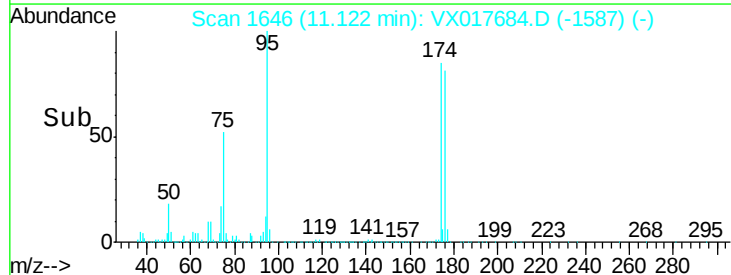
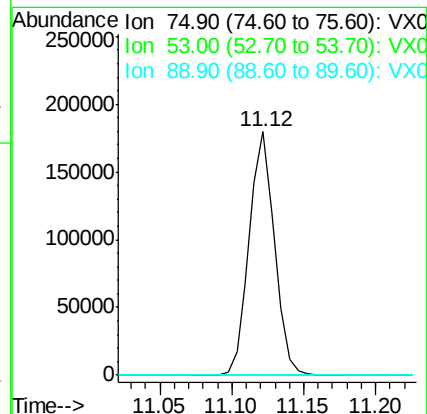
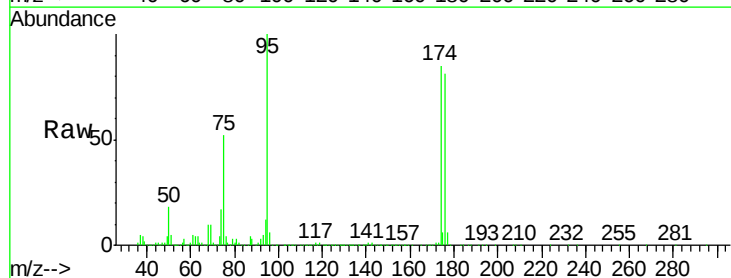
Tgt Ion: 75 Resp: 217915

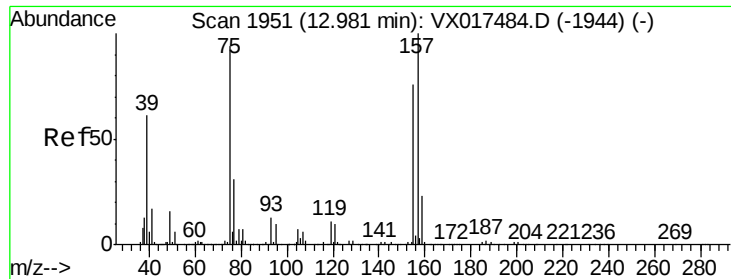
Ion Ratio Lower Upper

75 100

53 0.3 75.9 113.9#

89 0.0 37.8 56.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.614 ug/l

RT: 13.21 min Scan# 1988

Delta R.T. 0.23 min

Lab File: VX017684.D

Acq: 30 Jul 2020 15:34

Instrument :

MSVOA_X

ClientSampleId :

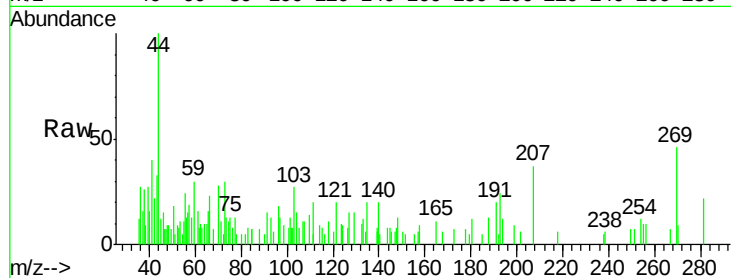
Tot Ion: 75 Resp: 111

Ion Ratio Lower Upper

75 100

155 46.8 42.3 126.8

157 73.9 54.3 162.9



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

