

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080420\
 Data File : VX017760.D
 Acq On : 04 Aug 2020 11:06
 Operator : JC/SP
 Sample : L3526-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 05 01:44:39 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	5.62	168	610795	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.83	114	918217	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	865185	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	405626	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	397550	50.67	ug/l	0.00
Spiked Amount			Recovery	=	101.34%	
35) Dibromofluoromethane	5.46	113	312216	50.84	ug/l	0.00
Spiked Amount			Recovery	=	101.68%	
50) Toluene-d8	8.70	98	1085869	49.01	ug/l	0.00
Spiked Amount			Recovery	=	98.02%	
62) 4-Bromofluorobenzene	11.12	95	399630	45.07	ug/l	0.00
Spiked Amount			Recovery	=	90.14%	

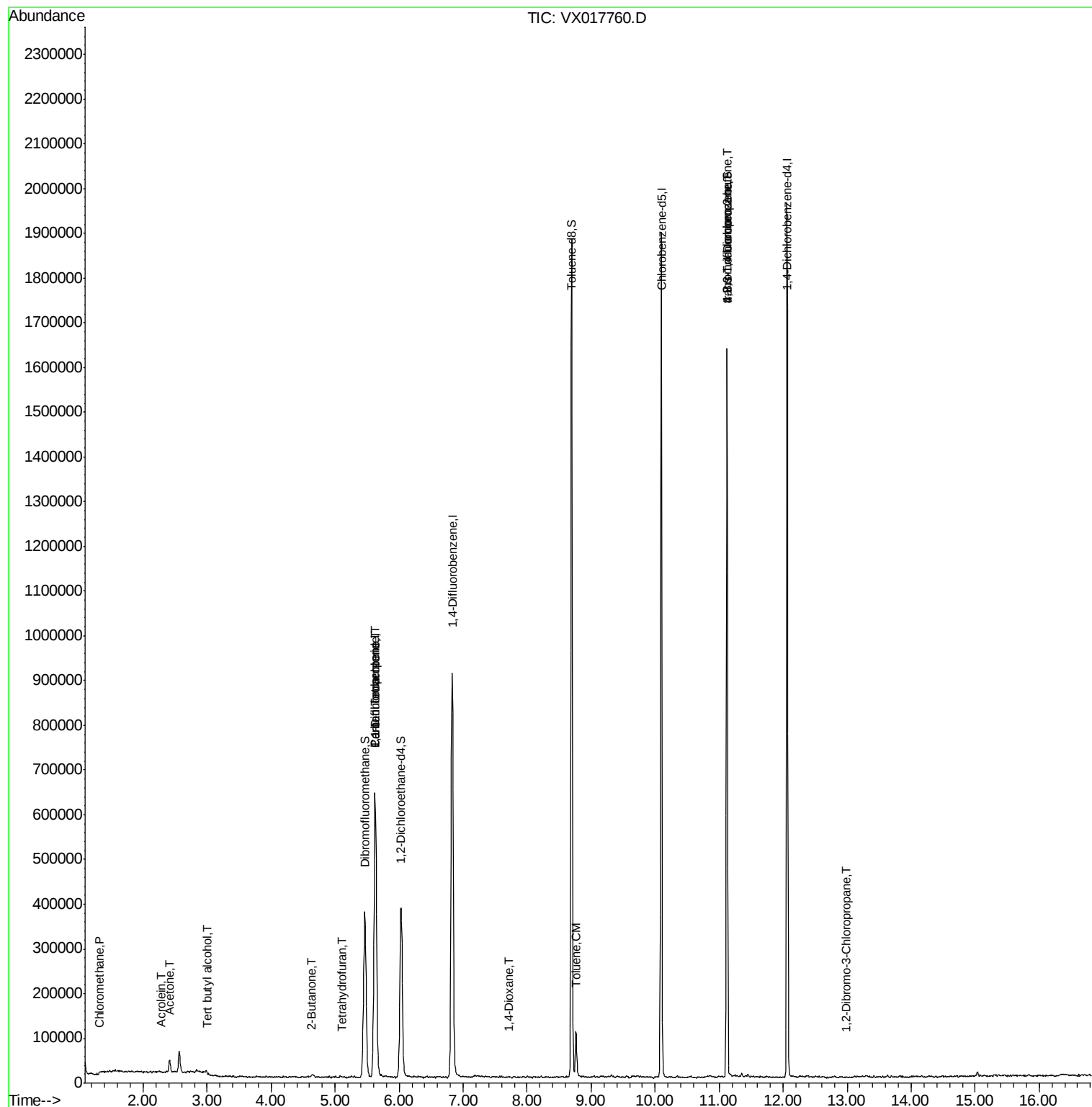
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	289	Below Cal		80
3) Chloromethane	1.31	50	2559	0.703 ug/l #		80
5) Bromomethane	1.61	94	808	Below Cal #		42
6) Chloroethane	1.70	64	218	Below Cal #		72
8) Diethyl Ether	2.17	74	945	Below Cal		84
11) Tert butyl alcohol	3.01	59	2690	1.627 ug/l		98
13) Acrolein	2.28	56	391	4.453 ug/l #		14
16) Acetone	2.42	43	30355	8.790 ug/l		89
20) Methylene Chloride	2.84	84	3100	Below Cal #		93
25) 2-Butanone	4.64	43	3183	0.649 ug/l		92
29) Tetrahydrofuran	5.10	42	2532	0.833 ug/l #		79
36) 1,1-Dichloropropene	5.63	75	44846	5.092 ug/l #		51
38) Carbon Tetrachloride	5.62	117	63036	5.894 ug/l #		18
49) 1,4-Dioxane	7.71	88	165	1.092 ug/l #		1
52) Toluene	8.76	92	38011	2.348 ug/l		93
76) 1,2,3-Trichloropropane	11.12	75	204061	24.456 ug/l #		34
81) trans-1,4-Dichloro-2-buten	11.12	75	204061	61.624 ug/l #		12
92) 1,2-Dibromo-3-Chloropropan	12.98	75	112	2.620 ug/l #		11

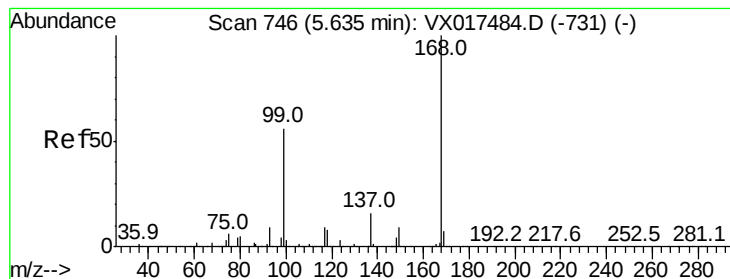
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.01 min

Lab File: VX017760.D

Acq: 04 Aug 2020 11:06

Instrument :

MSVOA_X

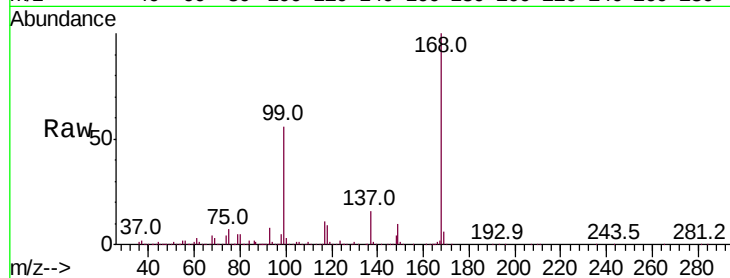
ClientSampleId :

Tot Ion:168 Resp: 610795

Ion Ratio Lower Upper

168 100

99 55.9 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.62

250000

200000

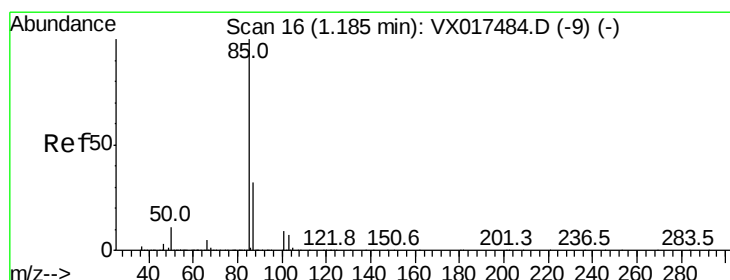
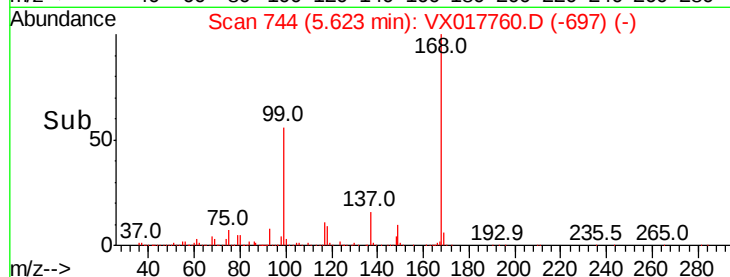
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 17

Delta R.T. 0.01 min

Lab File: VX017760.D

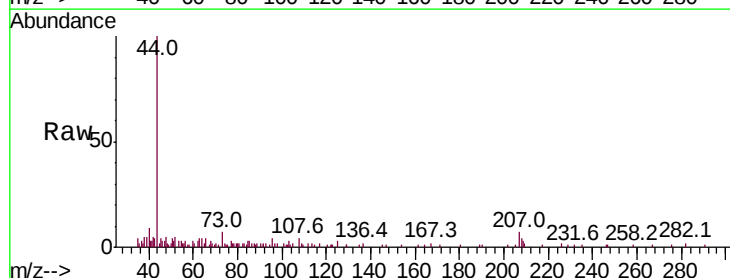
Acq: 04 Aug 2020 11:06

Tgt Ion: 85 Resp: 289

Ion Ratio Lower Upper

85 100

87 43.5 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

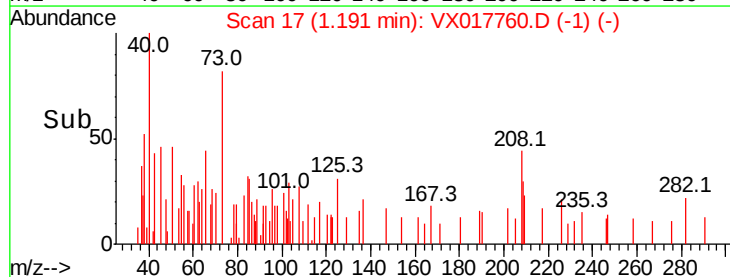
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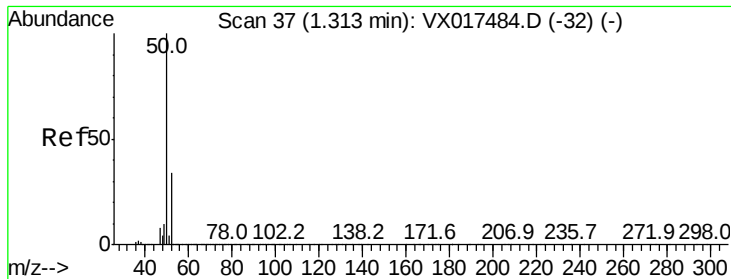
200

100

0

Time-->





#3

Chloromethane

Concen: 0.703 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX017760.D

Acq: 04 Aug 2020 11:06

Instrument :

MSVOA_X

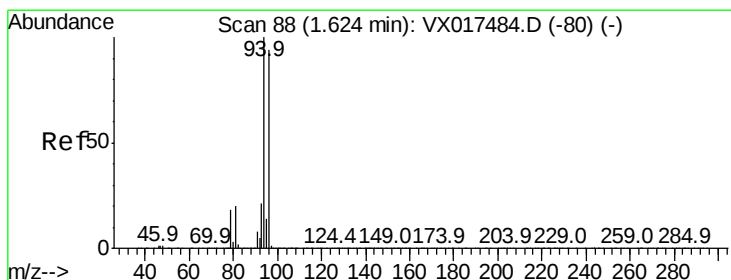
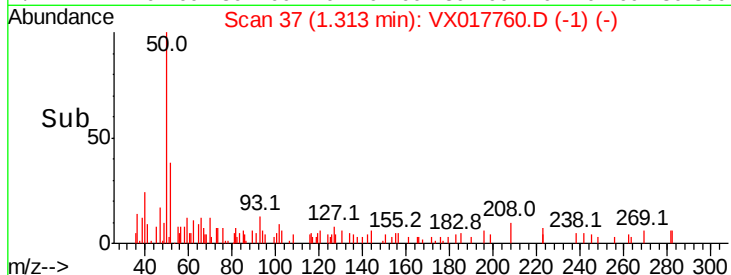
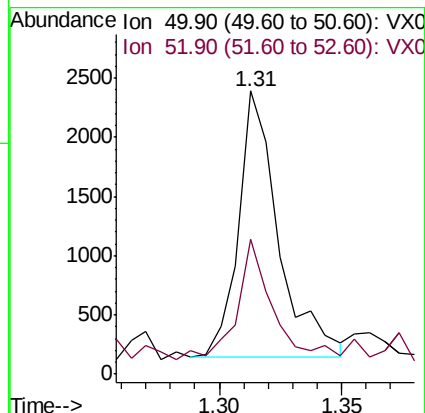
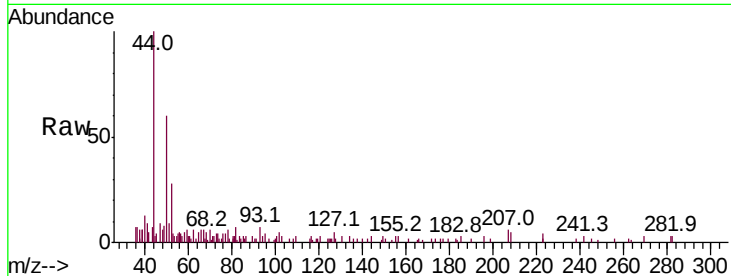
ClientSampleId :

Tot Ion: 50 Resp: 2559

Ion Ratio Lower Upper

50 100

52 43.6 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 86

Delta R.T. -0.01 min

Lab File: VX017760.D

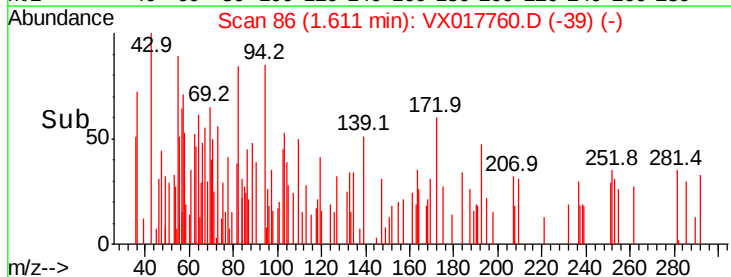
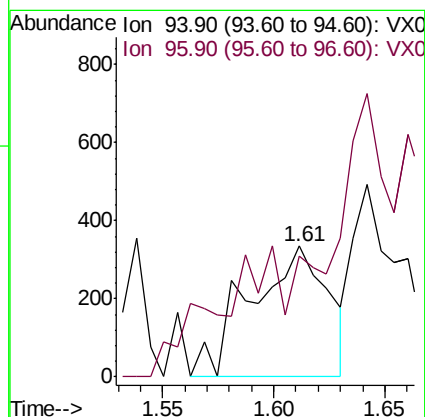
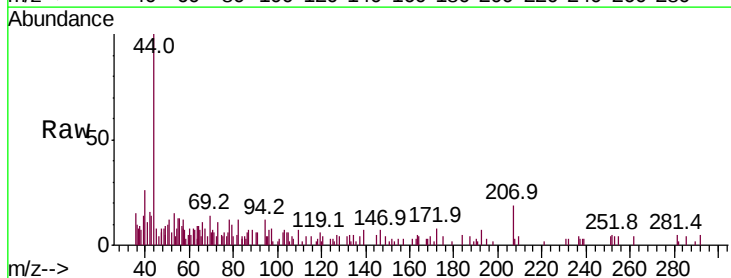
Acq: 04 Aug 2020 11:06

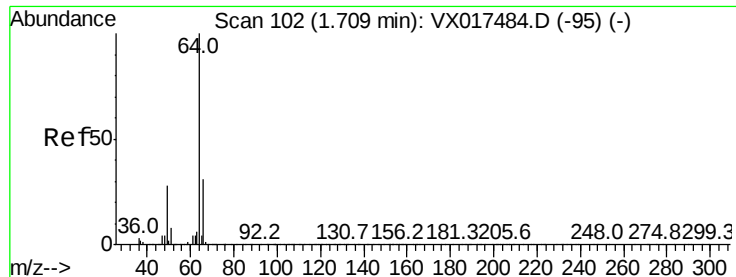
Tgt Ion: 94 Resp: 808

Ion Ratio Lower Upper

94 100

96 36.8 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 101

Delta R.T. -0.01 min

Lab File: VX017760.D

Acq: 04 Aug 2020 11:06

Instrument :

MSVOA_X

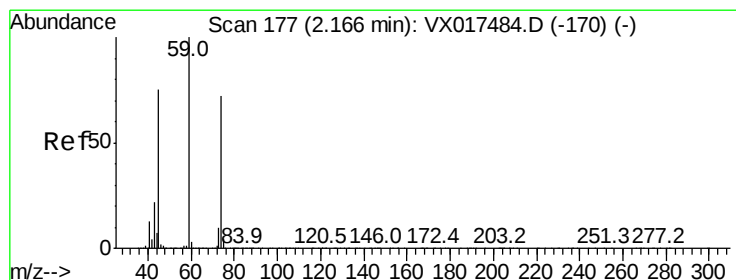
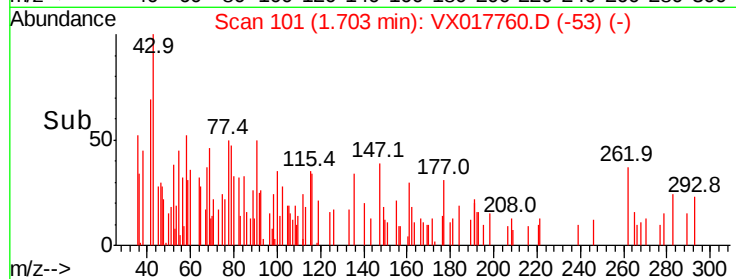
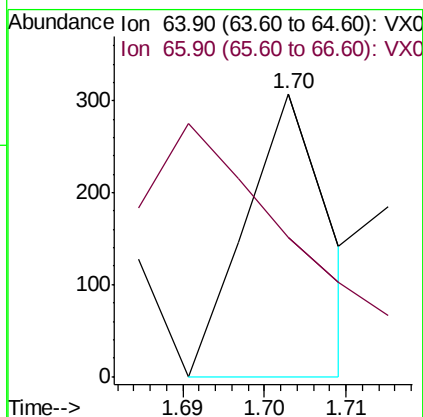
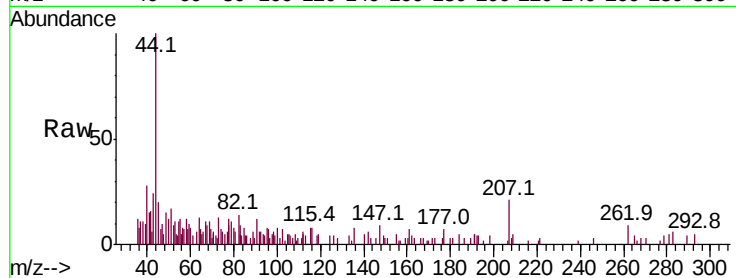
ClientSampled :

Tot Ion: 64 Resp: 218

Ion Ratio Lower Upper

64 100

66 15.9 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017760.D

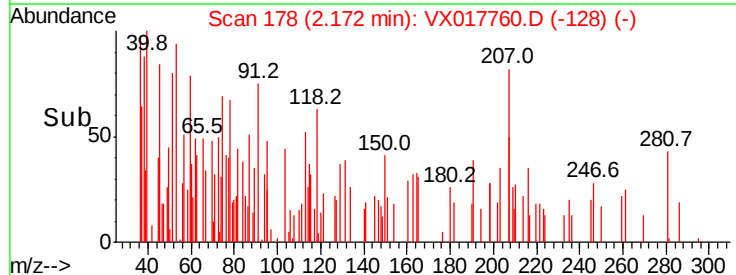
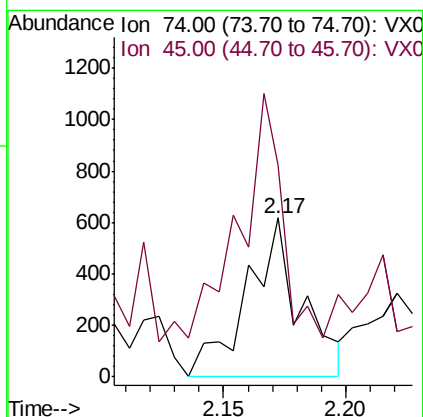
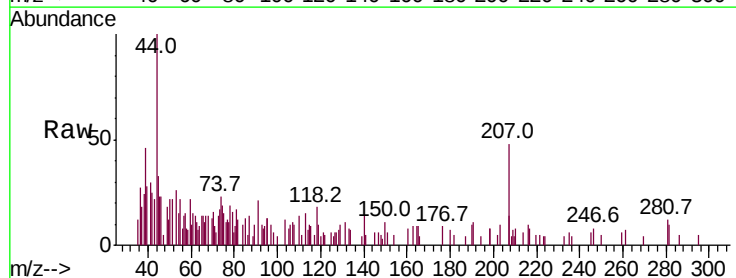
Acq: 04 Aug 2020 11:06

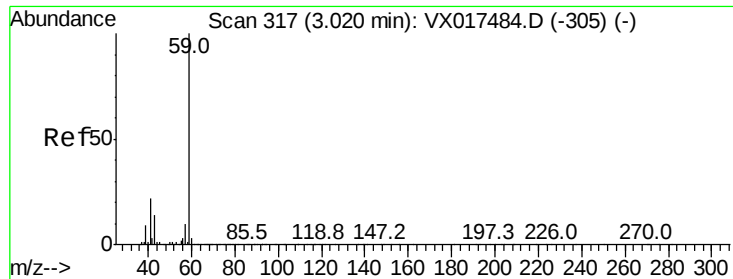
Tgt Ion: 74 Resp: 945

Ion Ratio Lower Upper

74 100

45 117.8 50.8 152.5



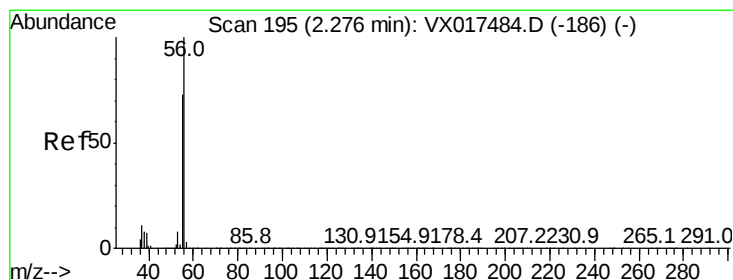
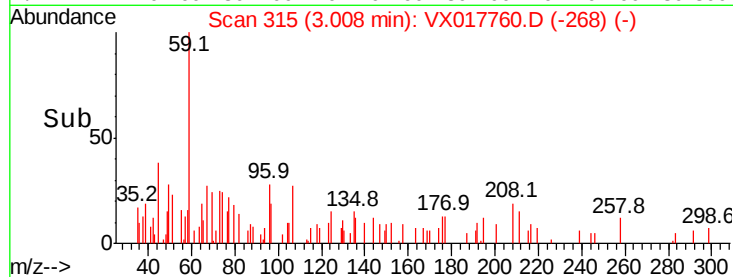
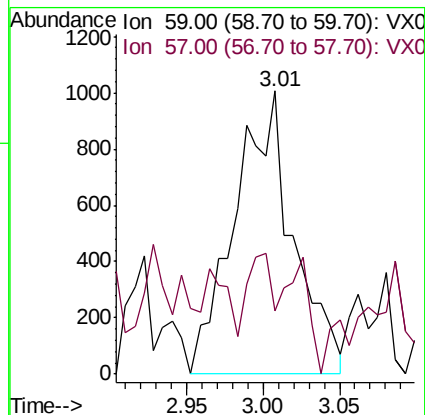
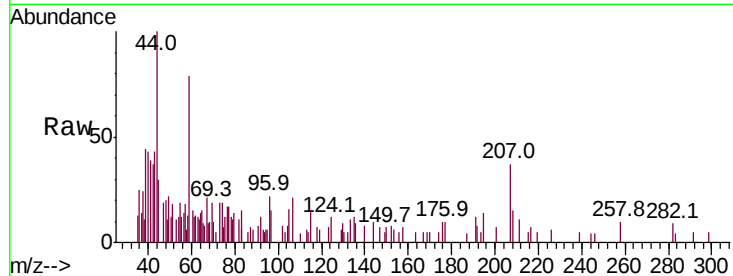


#11

Tert butyl alcohol
 Concen: 1.627 ug/l
 RT: 3.01 min Scan# 315
 Delta R.T. -0.01 min
 Lab File: VX017760.D
 Acq: 04 Aug 2020 11:06

Instrument :
 MSVOA_X
 ClientSampled :

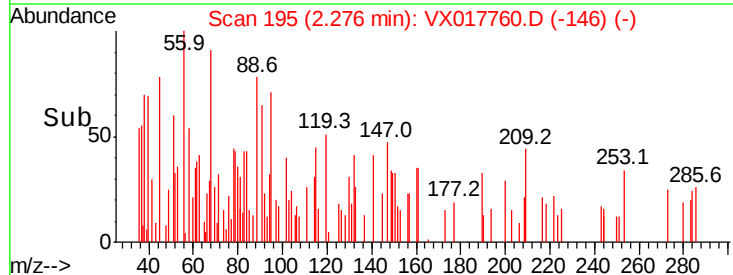
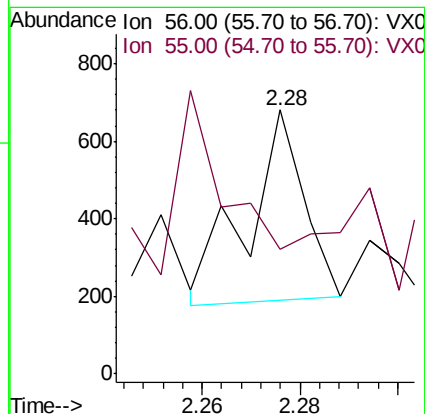
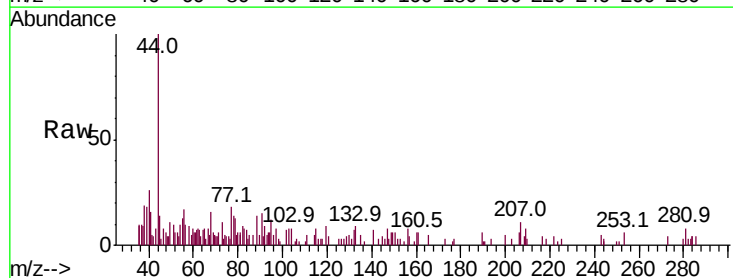
Tot Ion: 59 Resp: 2690
 Ion Ratio Lower Upper
 59 100
 57 11.6 8.6 12.8

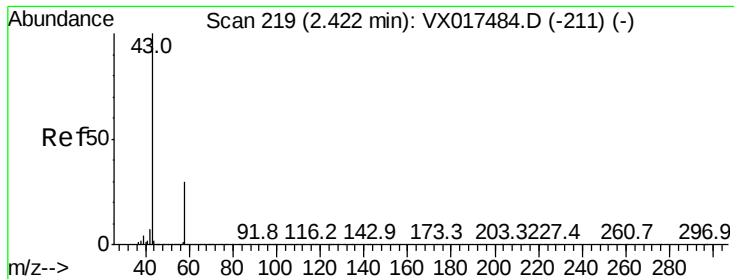


#13

Acrolein
 Concen: 4.453 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. -0.00 min
 Lab File: VX017760.D
 Acq: 04 Aug 2020 11:06

Tgt Ion: 56 Resp: 391
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.4 86.2#

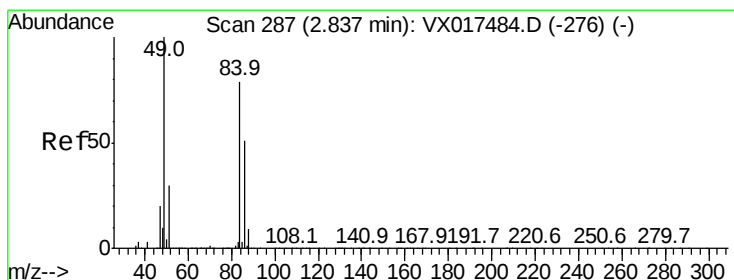
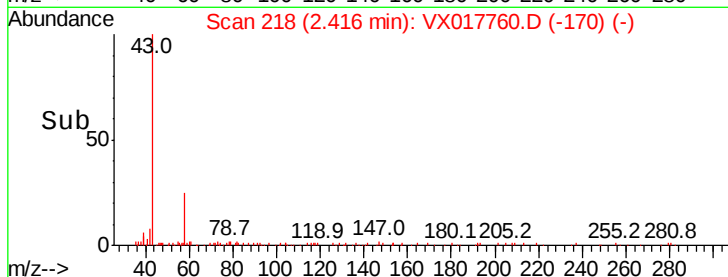
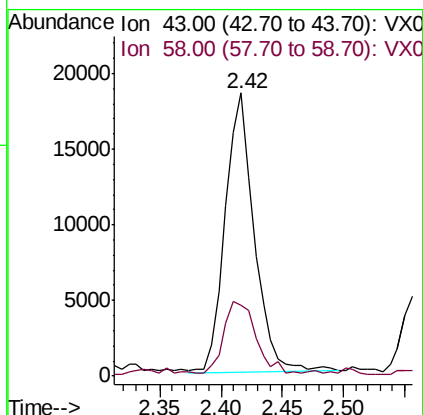
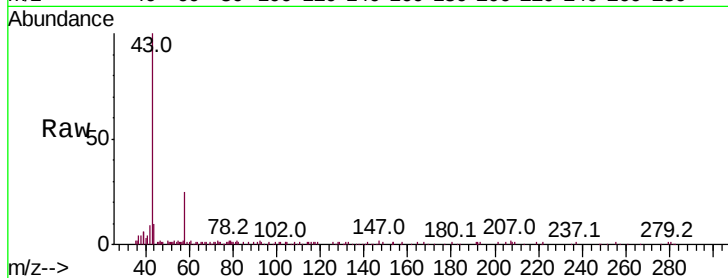




#16
Acetone
Concen: 8.790 ug/l
RT: 2.42 min Scan# 218
Delta R.T. -0.01 min
Lab File: VX017760.D
Acq: 04 Aug 2020 11:06

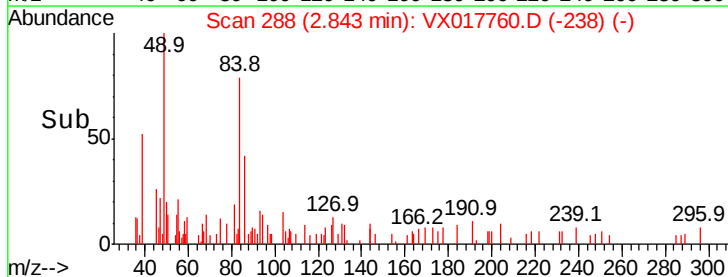
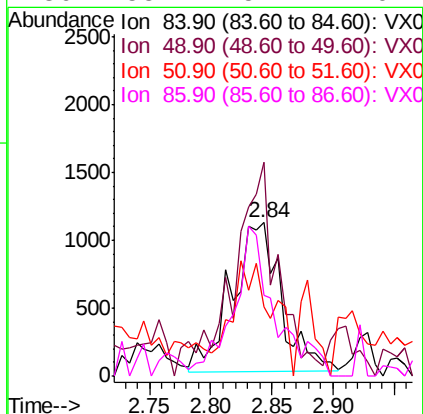
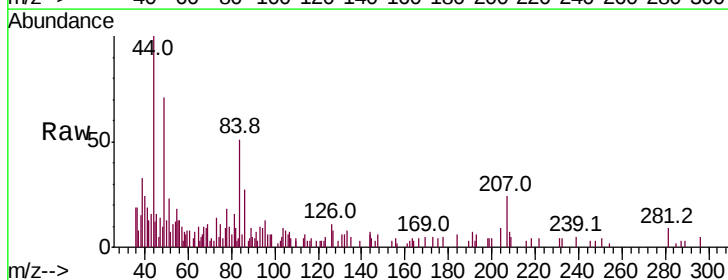
Instrument :
MSVOA_X
ClientSampleId :

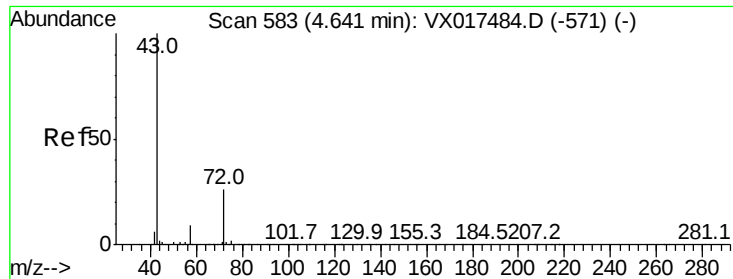
Tot Ion: 43 Resp: 30355
Ion Ratio Lower Upper
43 100
58 24.3 24.2 36.4



#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX017760.D
Acq: 04 Aug 2020 11:06

Tgt Ion: 84 Resp: 3100
Ion Ratio Lower Upper
84 100
49 122.8 100.3 150.5
51 28.0 30.5 45.7#
86 55.2 51.1 76.7





#25

2-Butanone

Concen: 0.649 ug/l

RT: 4.64 min Scan# 582

Delta R.T. -0.01 min

Lab File: VX017760.D

Acq: 04 Aug 2020 11:06

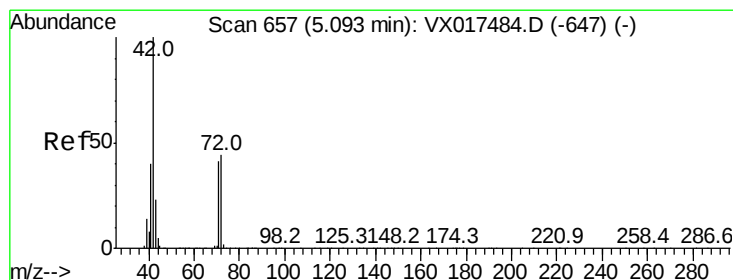
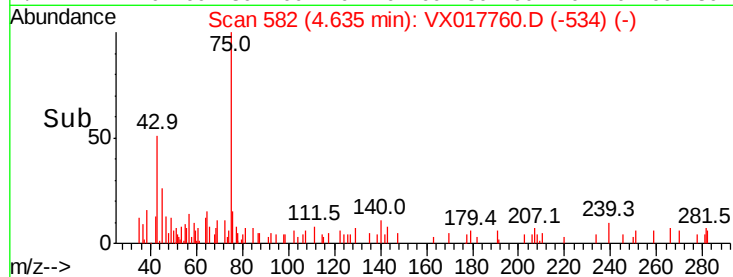
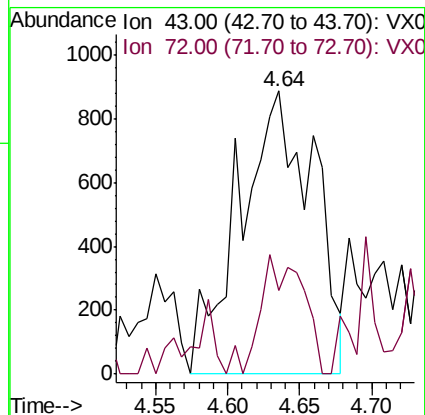
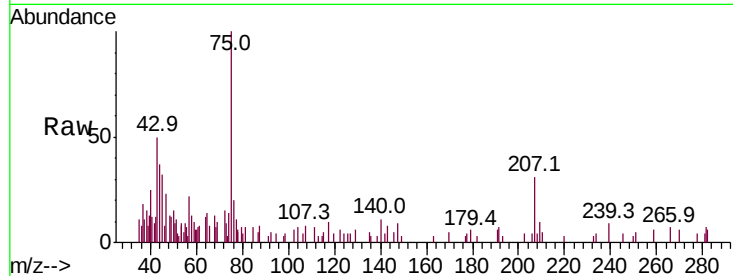
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 3183

Ion Ratio Lower Upper

43 100

72 20.0 19.0 28.4



#29

Tetrahydrofuran

Concen: 0.833 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX017760.D

Acq: 04 Aug 2020 11:06

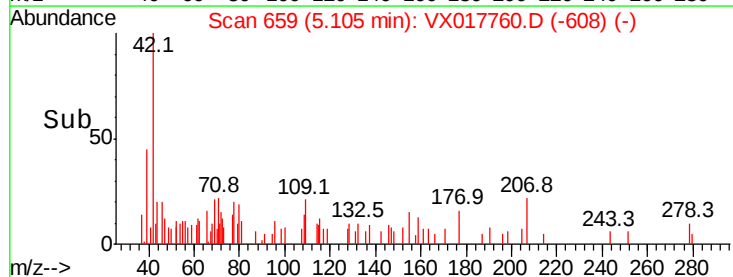
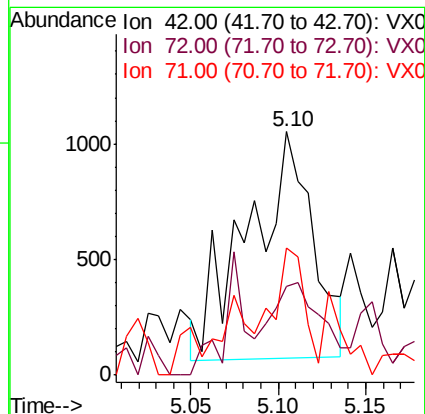
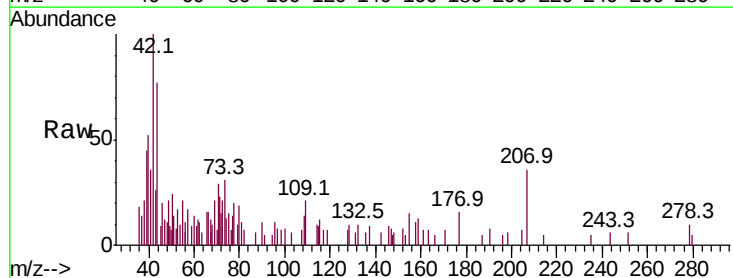
Tgt Ion: 42 Resp: 2532

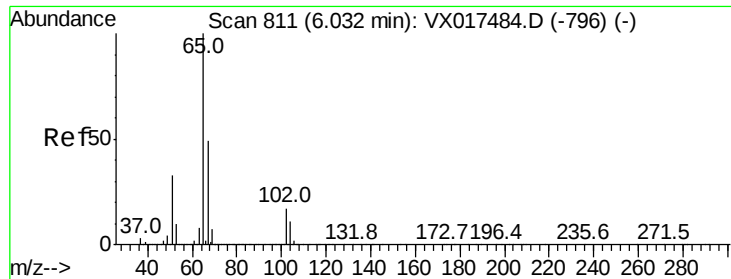
Ion Ratio Lower Upper

42 100

72 31.7 35.5 53.3#

71 26.9 33.0 49.4#

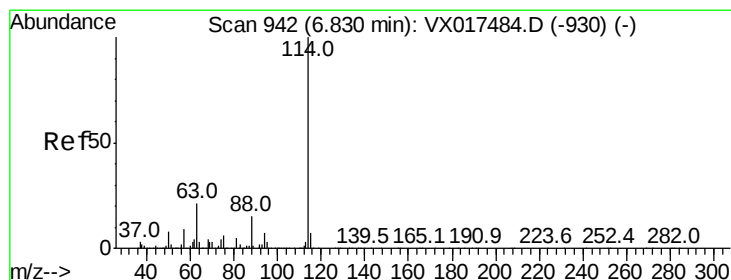
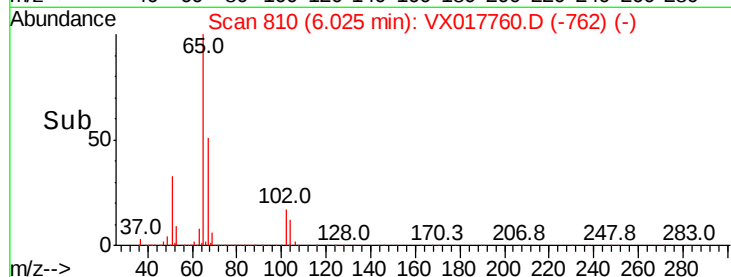
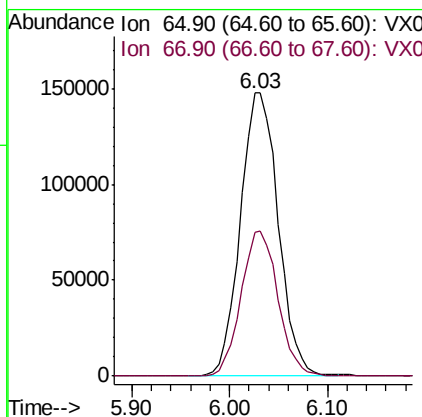
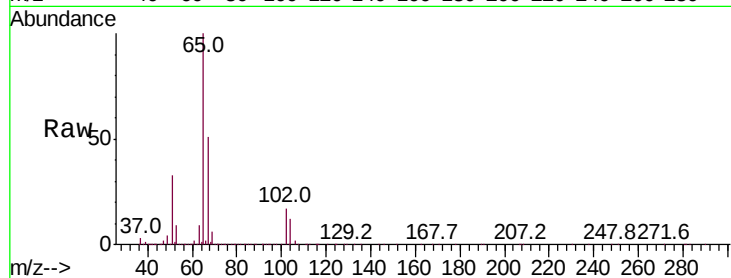




#33
 1,2-Dichloroethane-d4
 Concen: 50.670 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. -0.01 min
 Lab File: VX017760.D
 Acq: 04 Aug 2020 11:06

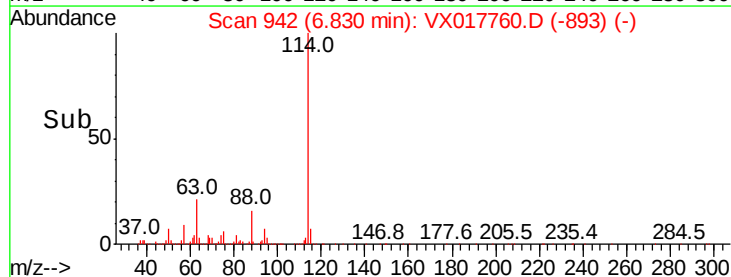
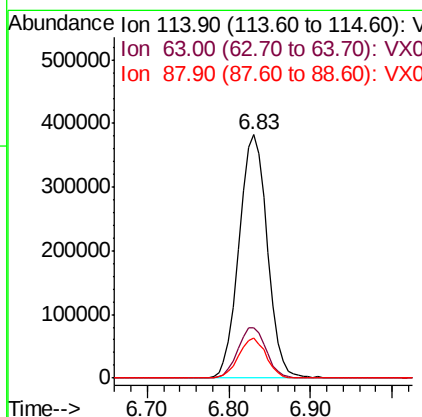
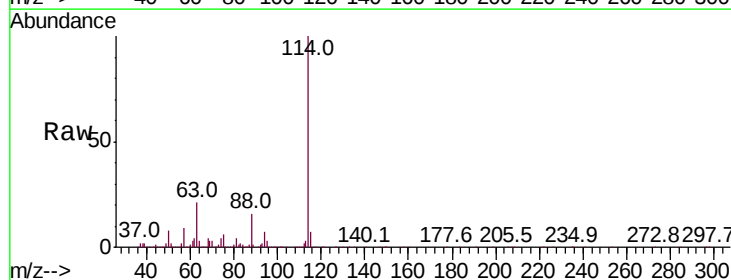
Instrument :
 MSVOA_X
 ClientSampleId :

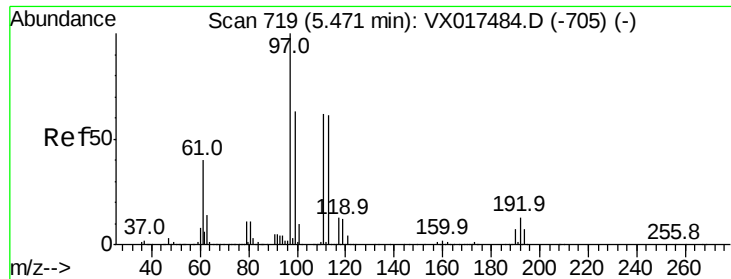
Tot Ion: 65 Resp: 397550
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. -0.00 min
 Lab File: VX017760.D
 Acq: 04 Aug 2020 11:06

Tgt Ion: 114 Resp: 918217
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 40.6
 88 16.3 0.0 33.4

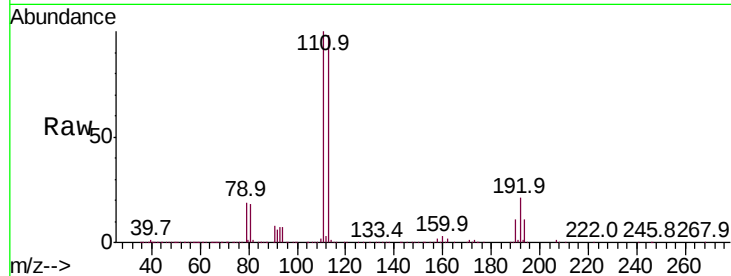




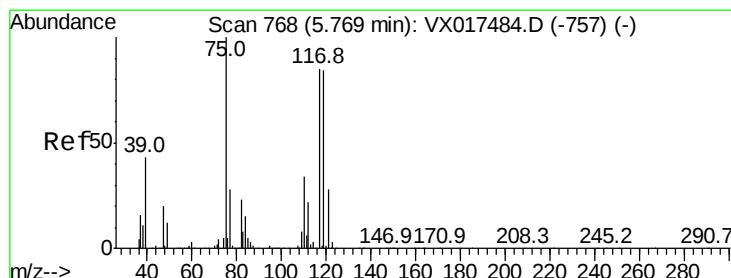
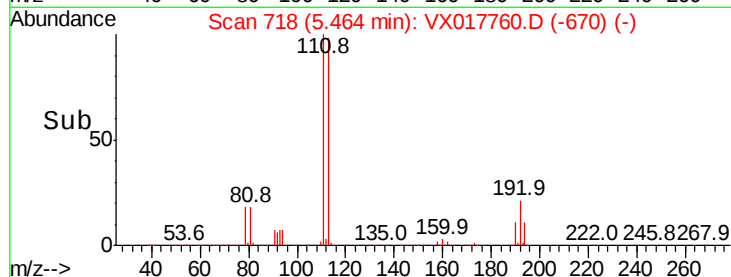
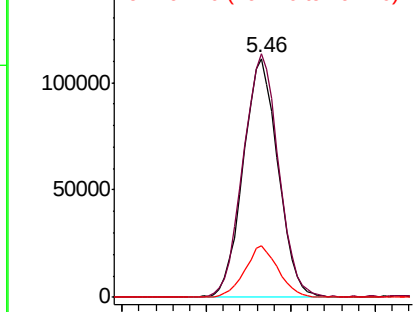
#35
Dibromofluoromethane
Concen: 50.841 ug/l
RT: 5.46 min Scan# 718
Delta R.T. -0.01 min
Lab File: VX017760.D
Acq: 04 Aug 2020 11:06

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.1	80.7	121.1
192	20.7	16.9	25.3

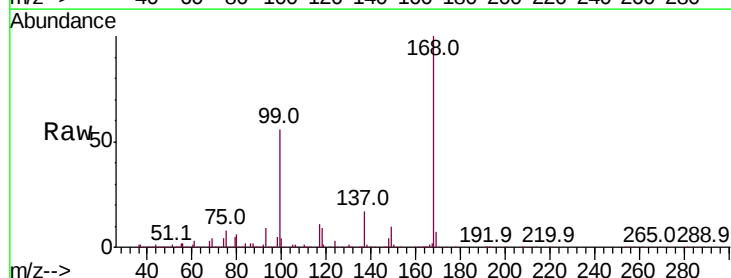


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

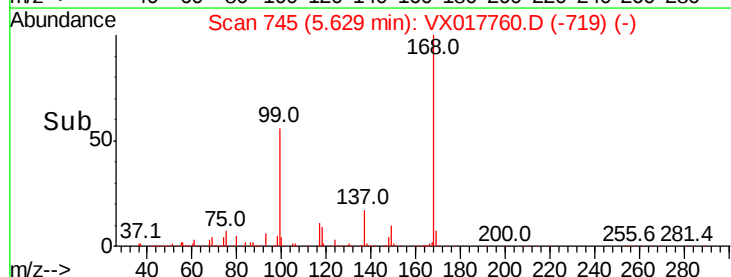
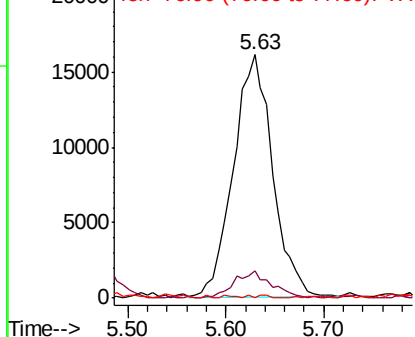


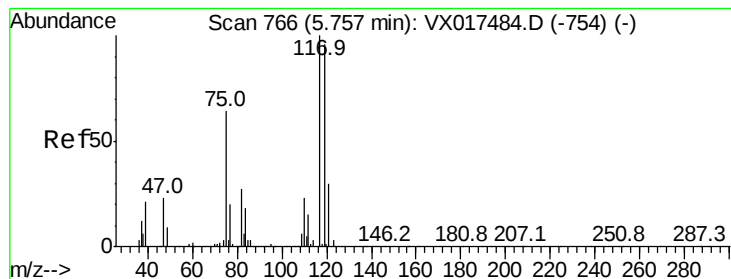
#36
1,1-Dichloropropene
Concen: 5.092 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.14 min
Lab File: VX017760.D
Acq: 04 Aug 2020 11:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.8	18.1	54.3#
77	0.6	24.6	37.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.894 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX017760.D

Acq: 04 Aug 2020 11:06

Instrument :

MSVOA_X

ClientSampled :

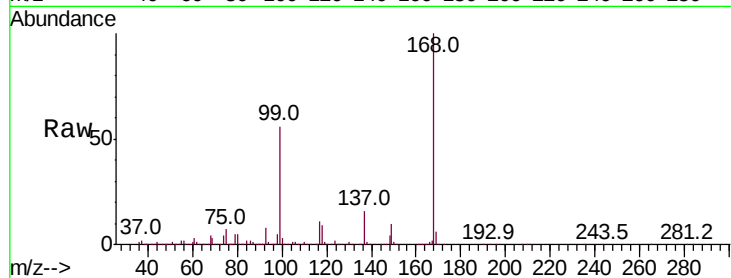
Tot Ion:117 Resp: 63036

Ion Ratio Lower Upper

117 100

119 6.2 75.4 113.0#

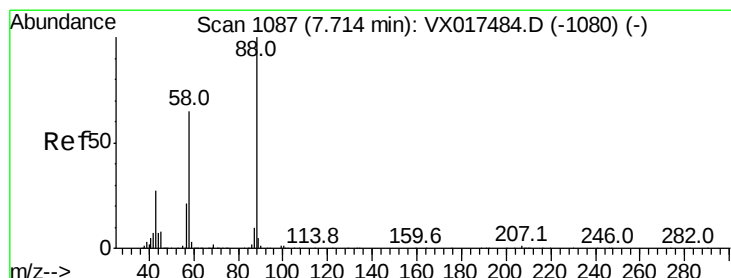
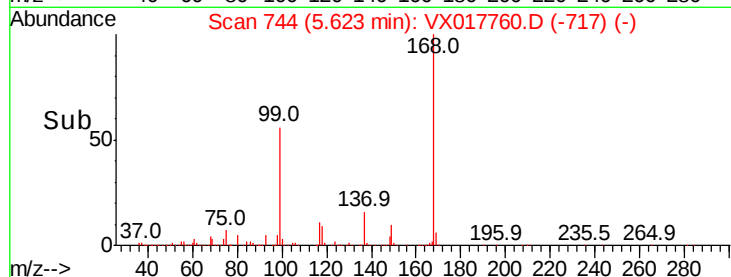
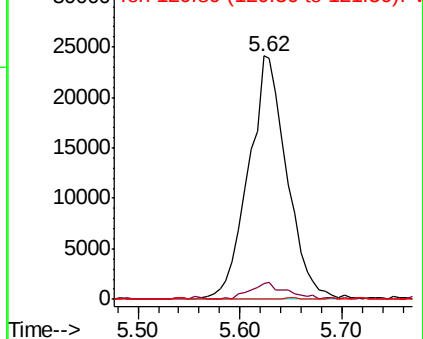
121 0.0 24.3 36.5#



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



#49

1,4-Dioxane

Concen: 1.092 ug/l

RT: 7.71 min Scan# 1087

Delta R.T. -0.00 min

Lab File: VX017760.D

Acq: 04 Aug 2020 11:06

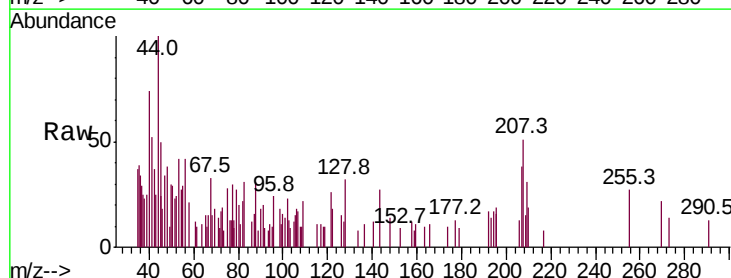
Tgt Ion: 88 Resp: 165

Ion Ratio Lower Upper

88 100

43 184.2 27.8 41.6#

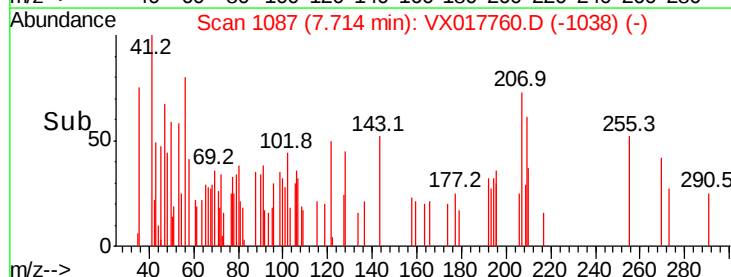
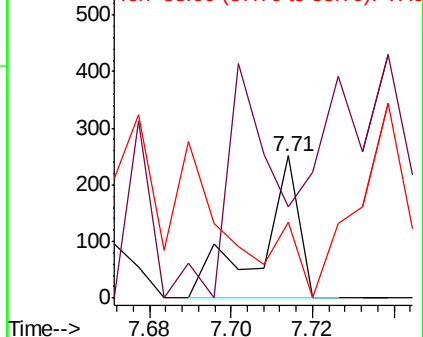
58 0.0 58.3 87.5#

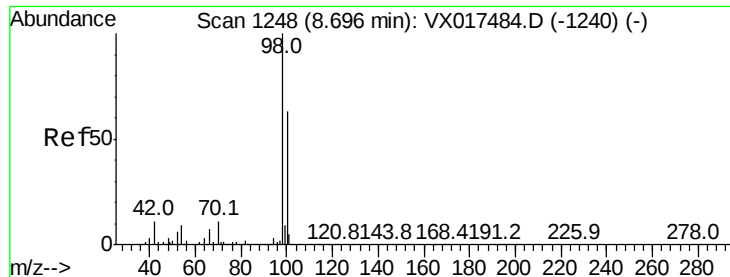


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

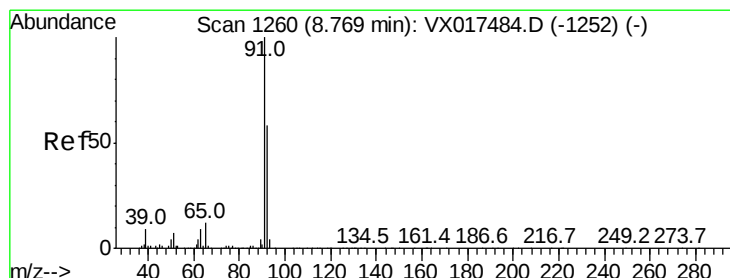
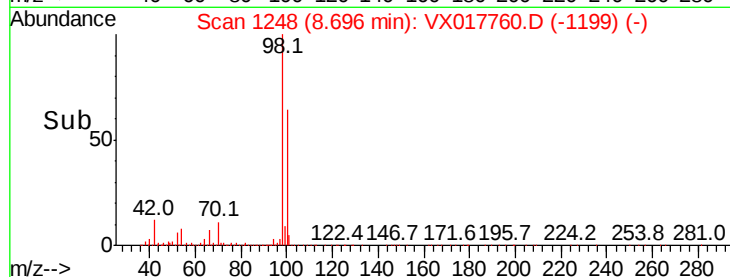
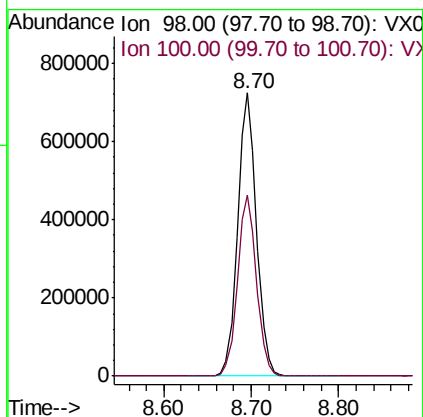
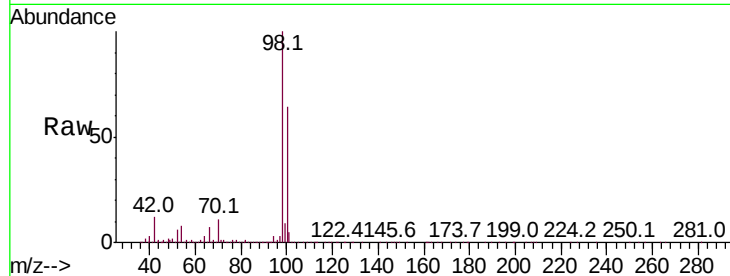




#50
Toluene-d8
Concen: 49.015 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX017760.D
Acq: 04 Aug 2020 11:06

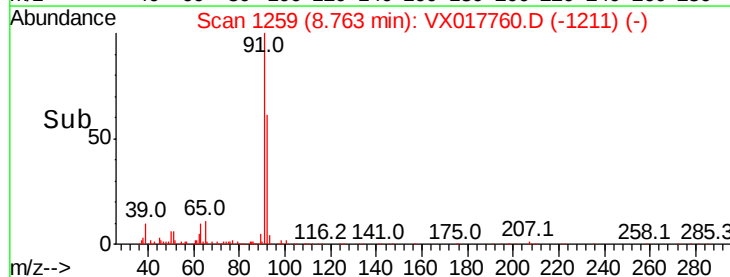
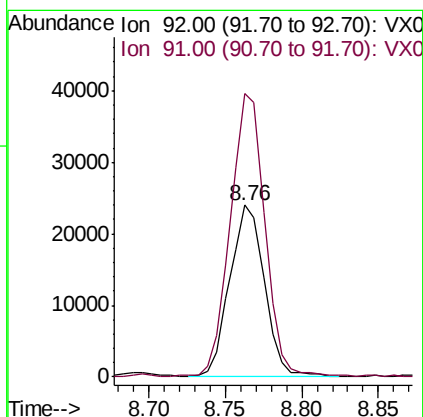
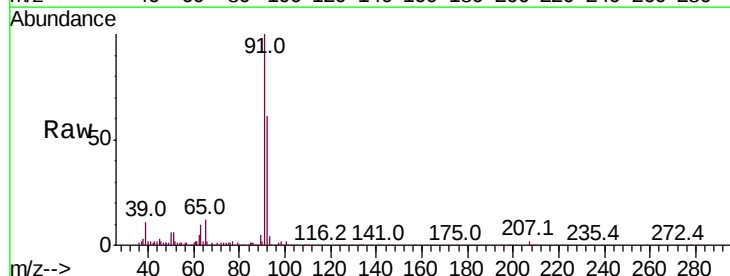
Instrument :
MSVOA_X
ClientSampleId :

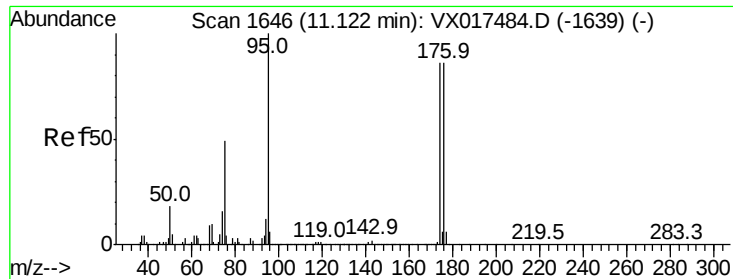
Tot Ion: 98 Resp: 1085869
Ion Ratio Lower Upper
98 100
100 64.6 52.3 78.5



#52
Toluene
Concen: 2.348 ug/l
RT: 8.76 min Scan# 1259
Delta R.T. -0.01 min
Lab File: VX017760.D
Acq: 04 Aug 2020 11:06

Tgt Ion: 92 Resp: 38011
Ion Ratio Lower Upper
92 100
91 162.3 137.6 206.4





#62

4-Bromofluorobenzene

Concen: 45.074 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017760.D

Acq: 04 Aug 2020 11:06

Instrument :

MSVOA_X

ClientSampleId :

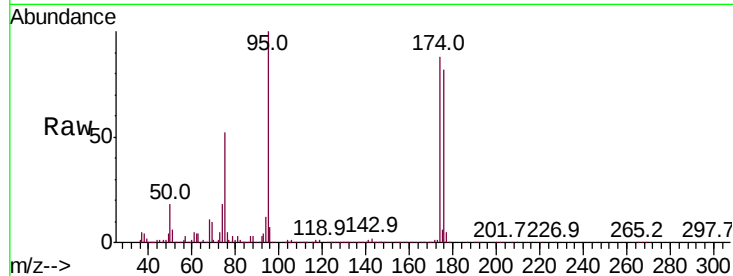
Tot Ion: 95 Resp: 399630

Ion Ratio Lower Upper

95 100

174 86.6 0.0 169.0

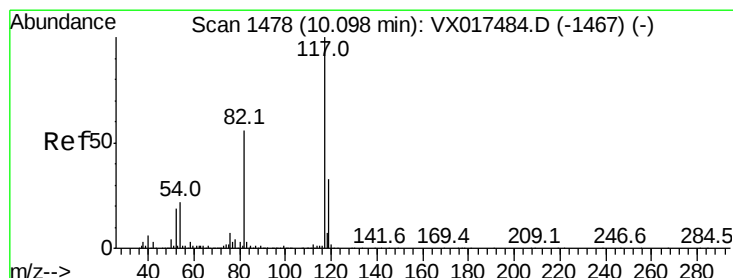
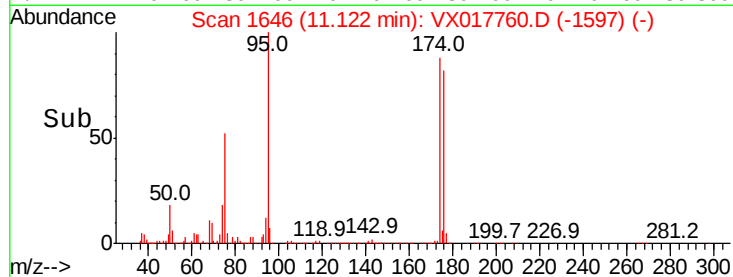
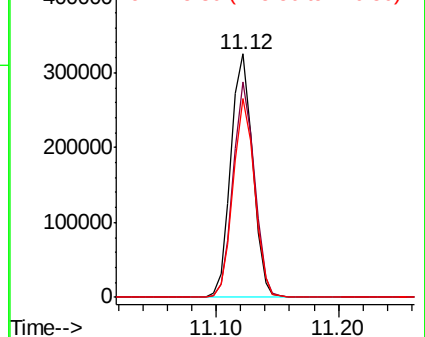
176 79.8 0.0 161.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017760.D

Acq: 04 Aug 2020 11:06

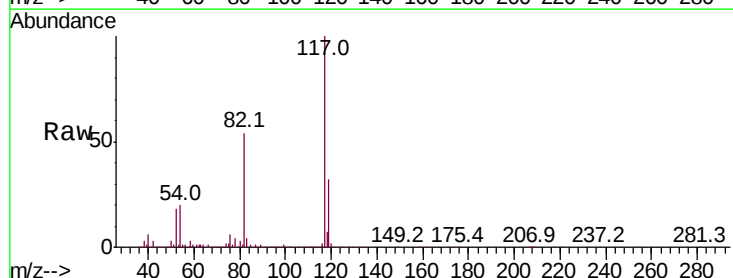
Tgt Ion: 117 Resp: 865185

Ion Ratio Lower Upper

117 100

82 54.2 44.0 66.0

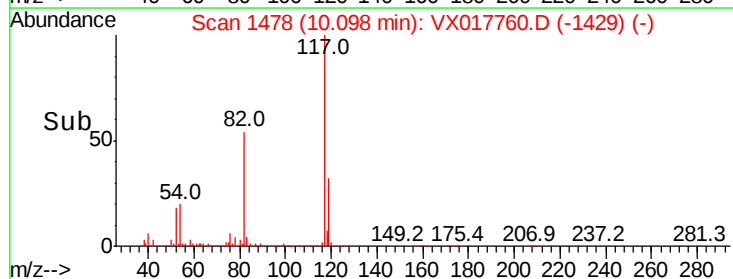
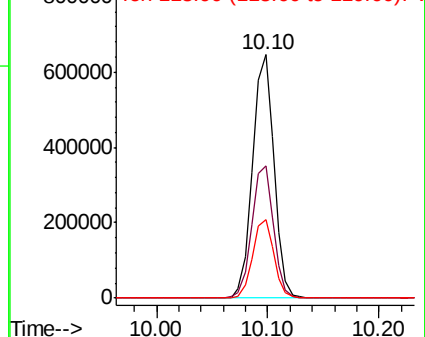
119 32.1 25.4 38.0

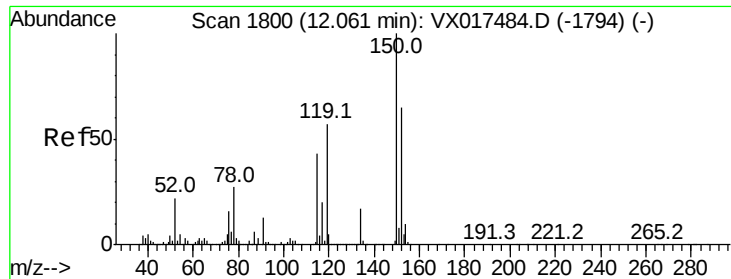


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017760.D

Acq: 04 Aug 2020 11:06

Instrument :

MSVOA_X

ClientSampleId :

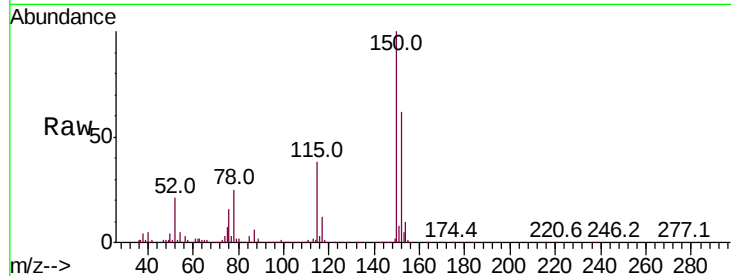
Tot Ion:152 Resp: 405626

Ion Ratio Lower Upper

152 100

115 59.6 65.5 196.6#

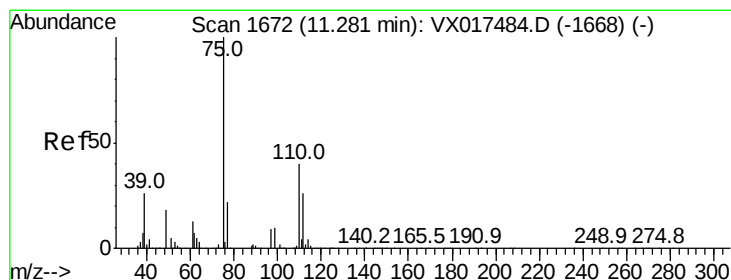
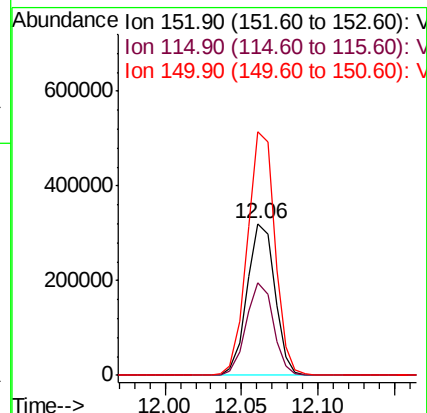
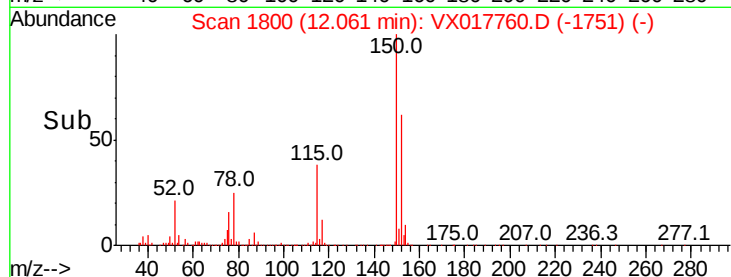
150 158.8 0.0 412.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.456 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017760.D

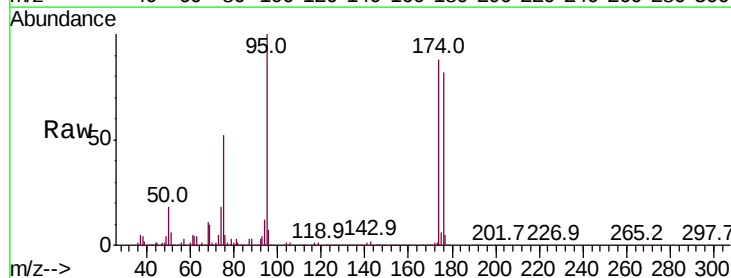
Acq: 04 Aug 2020 11:06

Tgt Ion: 75 Resp: 204061

Ion Ratio Lower Upper

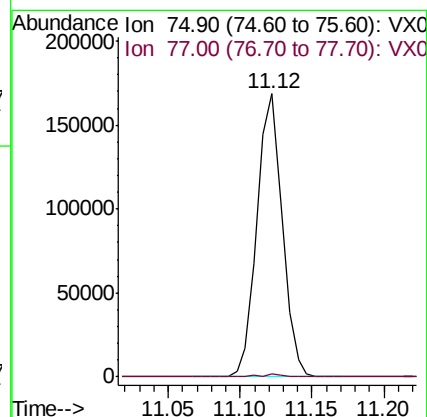
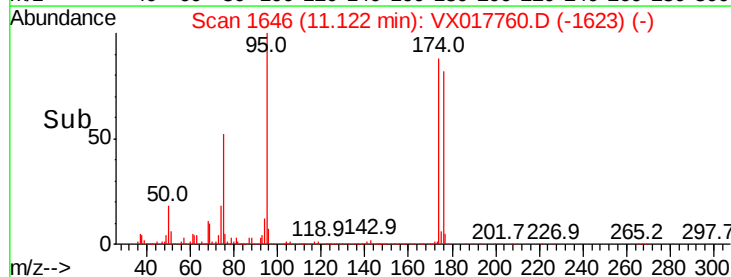
75 100

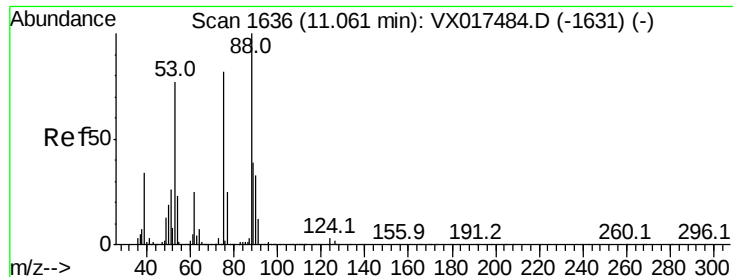
77 1.0 21.8 65.3#



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: 61.624 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017760.D

Acq: 04 Aug 2020 11:06

Instrument :

MSVOA_X

ClientSampleId :

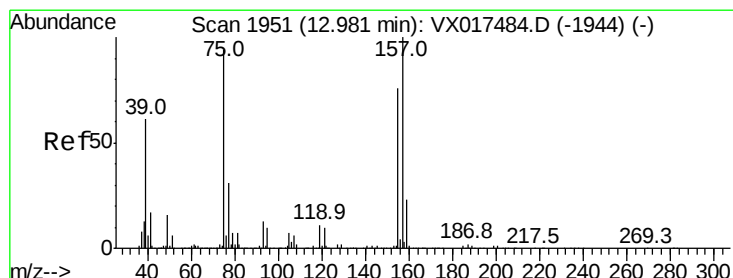
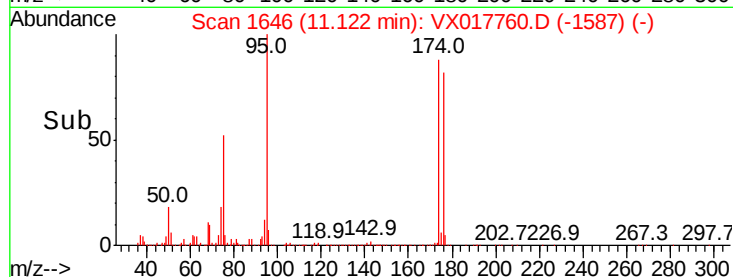
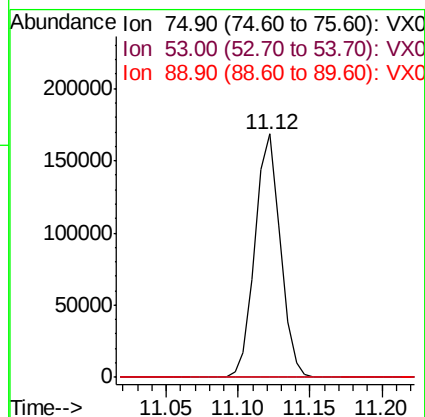
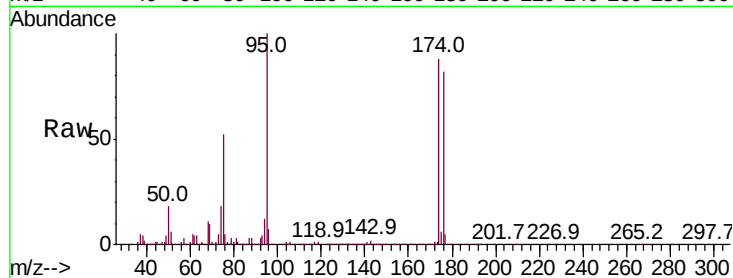
Tot Ion: 75 Resp: 204061

Ion Ratio Lower Upper

75 100

53 0.5 75.9 113.9#

89 0.2 37.8 56.6#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.620 ug/l

RT: 12.98 min Scan# 1951

Delta R.T. 0.00 min

Lab File: VX017760.D

Acq: 04 Aug 2020 11:06

Tgt Ion: 75 Resp: 112

Ion Ratio Lower Upper

75 100

155 21.4 42.3 126.8#

157 0.0 54.3 162.9#

