

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080520\
 Data File : VX017793.D
 Acq On : 05 Aug 2020 13:22
 Operator : JC/SP
 Sample : L3556-07DL 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB179-GW-418-420DL

Quant Time: Aug 06 02:33:16 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	541316	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	751773	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	709717	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	329847	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	345149	49.64	ug/l	0.00
Spiked Amount			Recovery	=	99.28%	
35) Dibromofluoromethane	5.47	113	271420	53.98	ug/l	0.00
Spiked Amount			Recovery	=	107.96%	
50) Toluene-d8	8.70	98	866797	47.79	ug/l	0.00
Spiked Amount			Recovery	=	95.58%	
62) 4-Bromofluorobenzene	11.12	95	310824	42.82	ug/l	0.00
Spiked Amount			Recovery	=	85.64%	

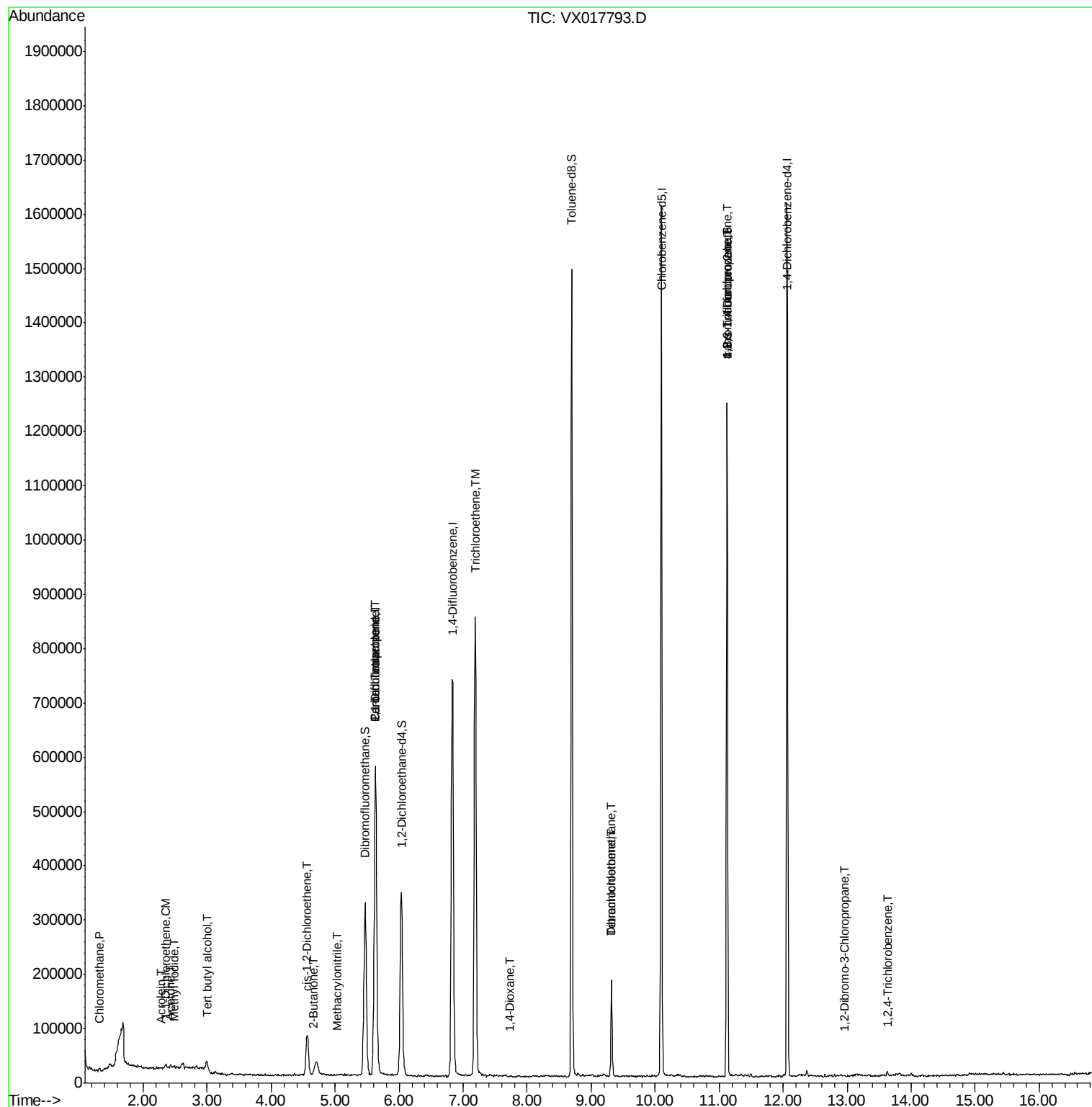
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	591	Below Cal	#	63
3) Chloromethane	1.32	50	1277	0.556	ug/l #	38
5) Bromomethane	1.62	94	1776	Below Cal	#	53
6) Chloroethane	1.72	64	319	Below Cal	#	44
8) Diethyl Ether	2.17	74	629	Below Cal		74
10) Methyl Iodide	2.50	142	2990	0.397	ug/l #	76
11) Tert butyl alcohol	3.00	59	8031	5.480	ug/l #	81
12) 1,1-Dichloroethene	2.35	96	2208	0.395	ug/l #	76
13) Acrolein	2.28	56	762	4.818	ug/l	91
16) Acetone	2.43	43	4007	1.309	ug/l	91
20) Methylene Chloride	2.84	84	3814	Below Cal	#	48
25) 2-Butanone	4.65	43	1053	0.242	ug/l #	73
27) cis-1,2-Dichloroethene	4.56	96	49173	7.558	ug/l	88
36) 1,1-Dichloropropene	5.63	75	39611	5.494	ug/l #	52
38) Carbon Tetrachloride	5.63	117	54907	6.271	ug/l #	18
41) Methacrylonitrile	5.03	41	956	0.211	ug/l #	32
44) Trichloroethene	7.19	130	338744	56.074	ug/l	97
49) 1,4-Dioxane	7.73	88	360	2.910	ug/l #	8
60) Dibromochloromethane	9.32	129	31000	4.416	ug/l #	12
64) Tetrachloroethene	9.32	164	33036	5.186	ug/l	99
76) 1,2,3-Trichloropropane	11.12	75	162176	23.902	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	162176	60.227	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	12.95	75	133	2.640	ug/l	73
93) 1,2,4-Trichlorobenzene	13.63	180	1461	0.200	ug/l	86

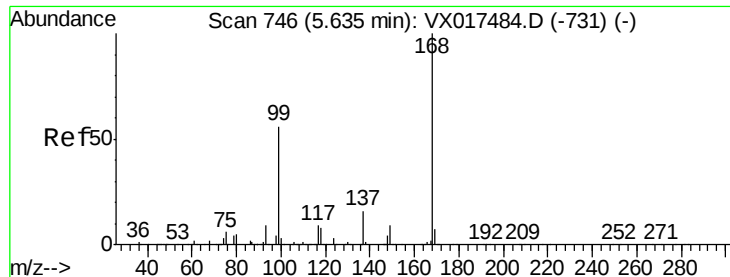
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jul 24 05:48:09 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017793.D

Acq: 05 Aug 2020 13:22

Instrument :

MSVOA_X

ClientSampleId :

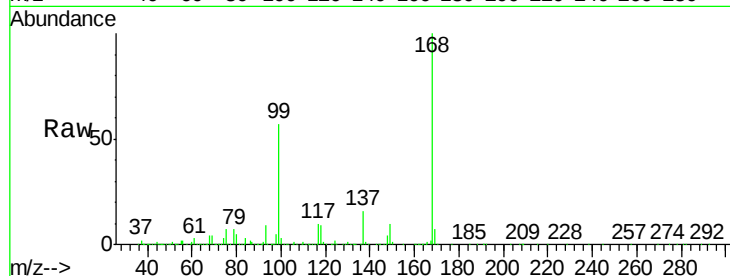
BP-VPB179-GW-418-420DL

Tot Ion:168 Resp: 541316

Ion Ratio Lower Upper

168 100

99 56.9 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

200000

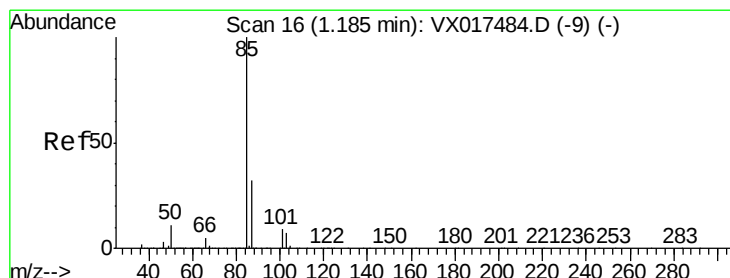
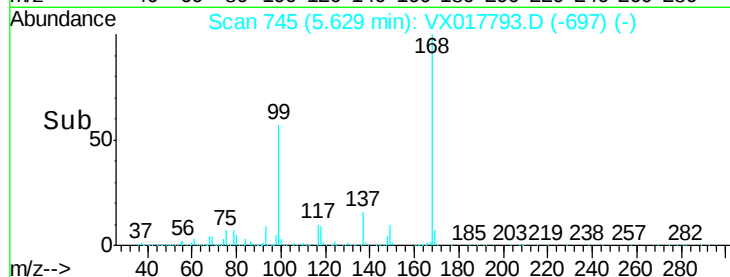
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017793.D

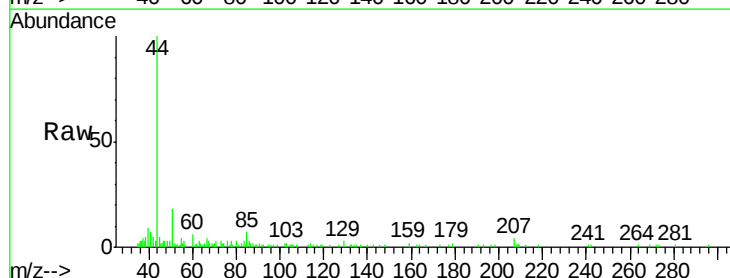
Acq: 05 Aug 2020 13:22

Tgt Ion: 85 Resp: 591

Ion Ratio Lower Upper

85 100

87 53.1 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

600

500

400

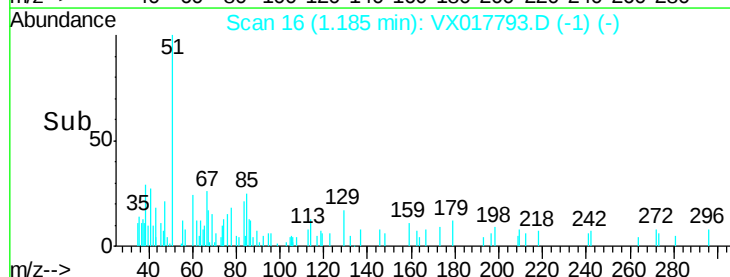
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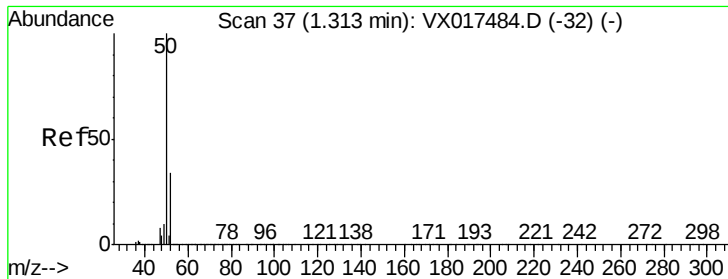
200

100

0

Time-->





#3

Chloromethane

Concen: 0.556 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017793.D

Acq: 05 Aug 2020 13:22

Instrument :

MSVOA_X

ClientSampleId :

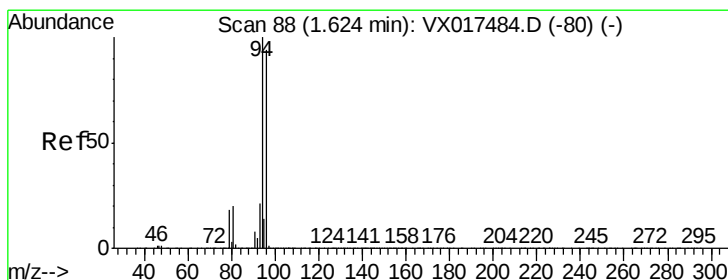
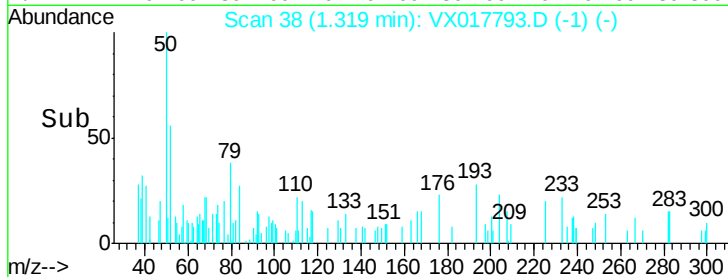
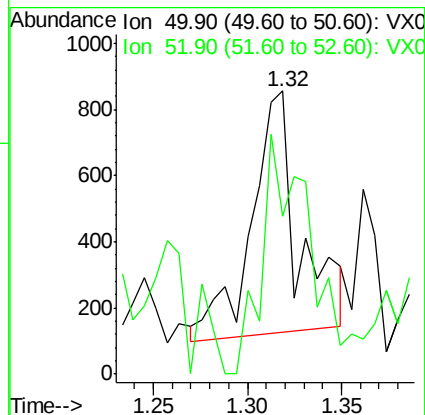
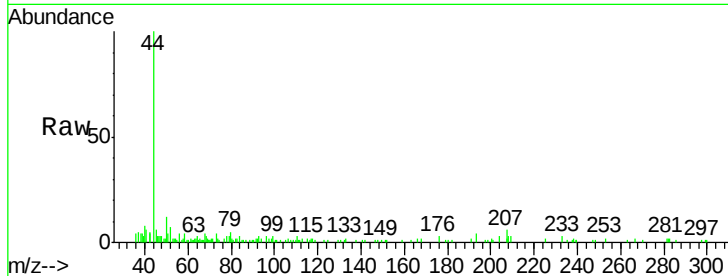
BP-VPB179-GW-418-420DL

Tot Ion: 50 Resp: 1277

Ion Ratio Lower Upper

50 100

52 67.3 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VX017793.D

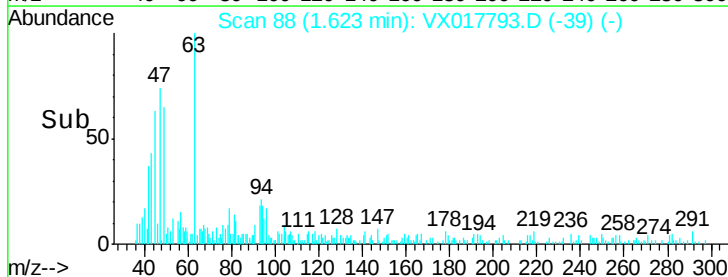
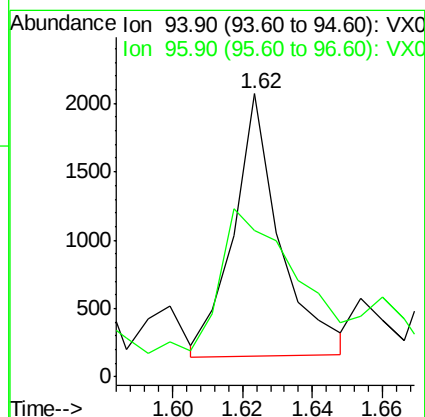
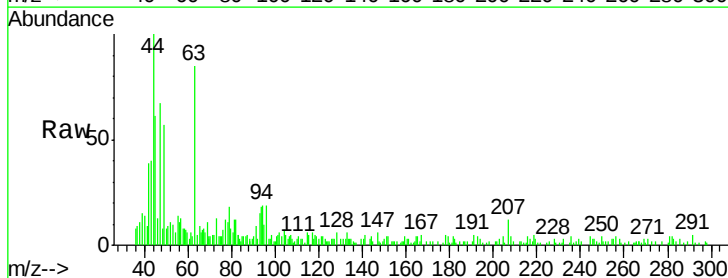
Acq: 05 Aug 2020 13:22

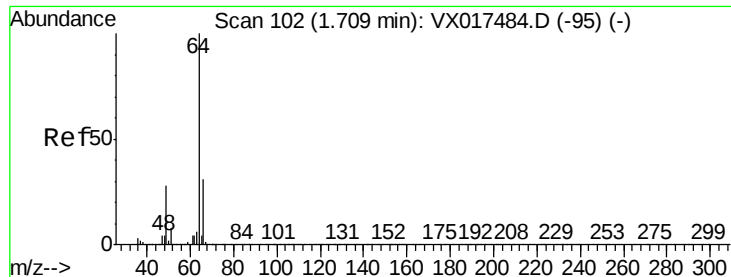
Tgt Ion: 94 Resp: 1776

Ion Ratio Lower Upper

94 100

96 47.7 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 104

Delta R.T. 0.01 min

Lab File: VX017793.D

Acq: 05 Aug 2020 13:22

Instrument :

MSVOA_X

ClientSampleId :

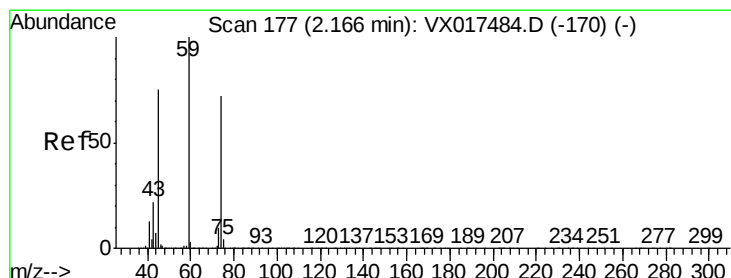
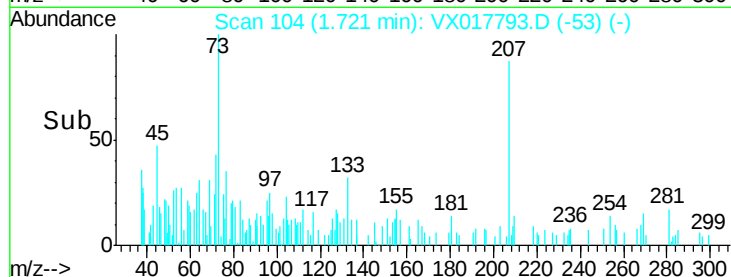
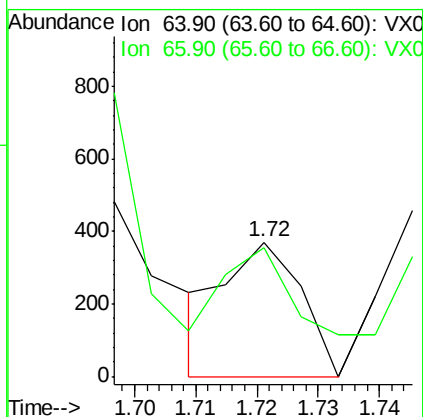
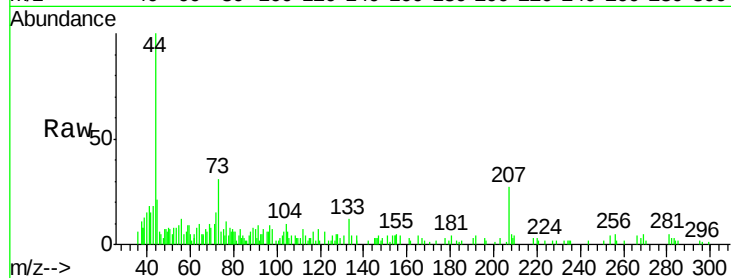
BP-VPB179-GW-418-420DL

Tot Ion: 64 Resp: 319

Ion Ratio Lower Upper

64 100

66 62.1 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.17 min Scan# 178

Delta R.T. 0.01 min

Lab File: VX017793.D

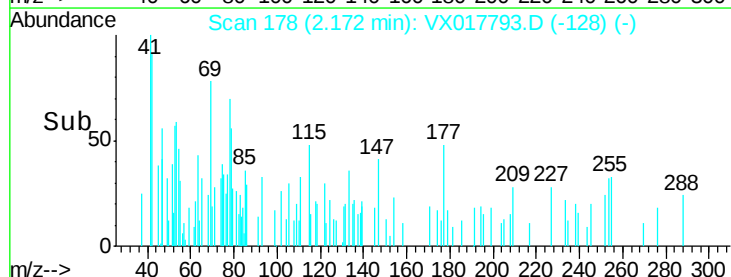
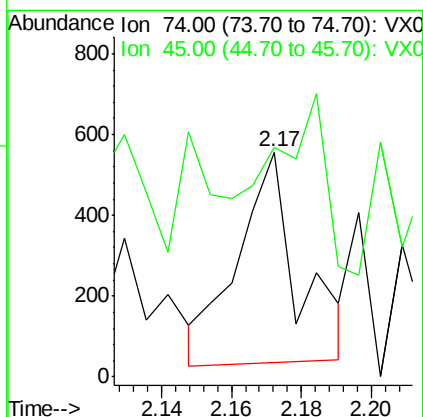
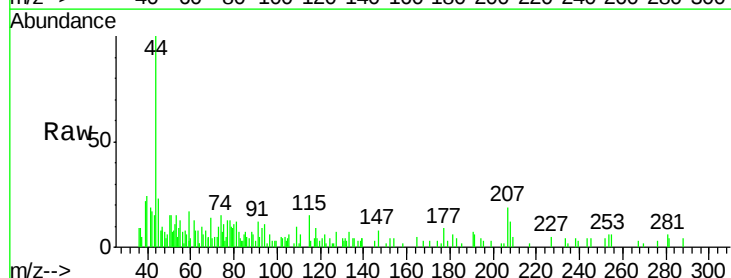
Acq: 05 Aug 2020 13:22

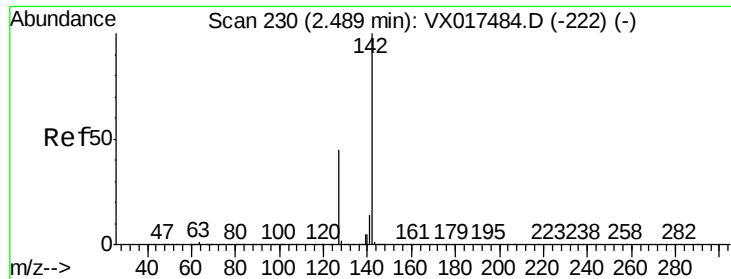
Tgt Ion: 74 Resp: 629

Ion Ratio Lower Upper

74 100

45 75.2 50.8 152.5

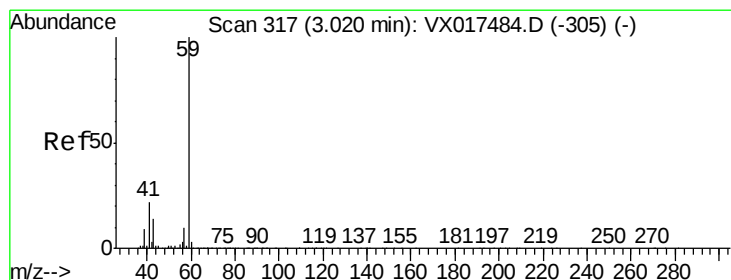
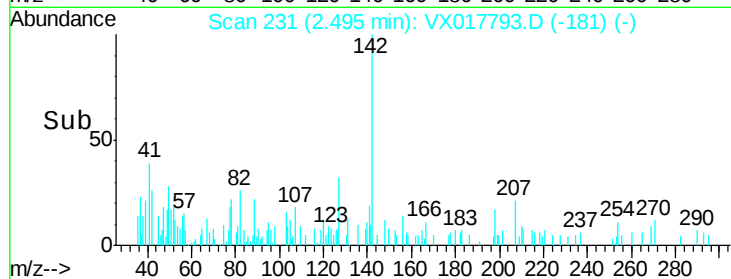
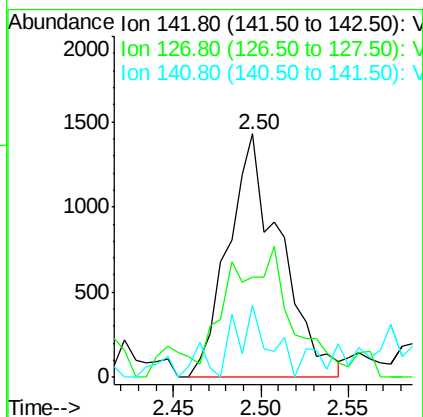
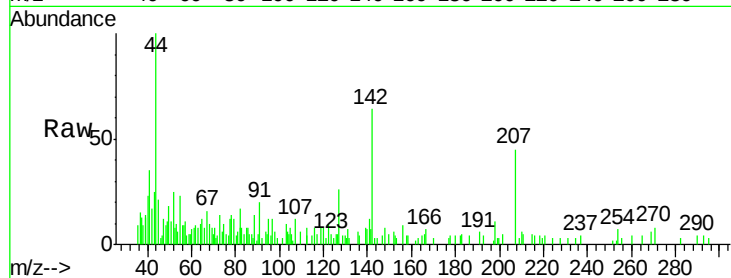




#10
Methyl Iodide
Concen: 0.397 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX017793.D
Acq: 05 Aug 2020 13:22

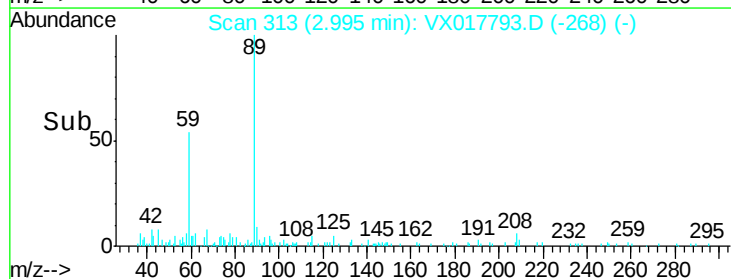
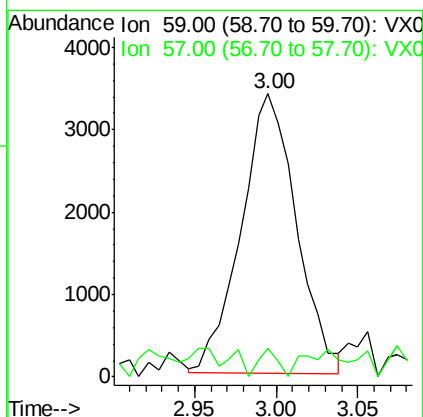
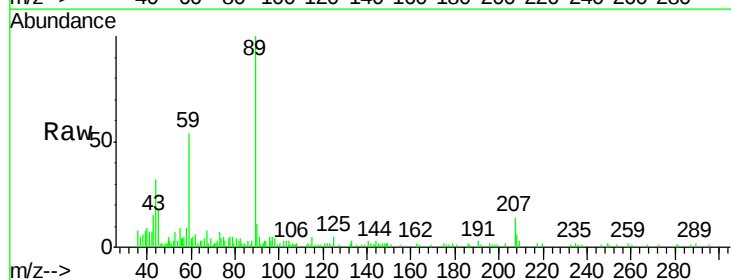
Instrument :
MSVOA_X
ClientSampleId :
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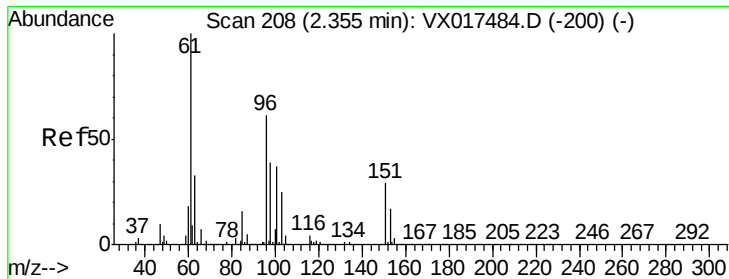
Tot Ion:142 Resp: 2990
Ion Ratio Lower Upper
142 100
127 63.9 35.9 53.9#
141 18.1 11.4 17.0#



#11
Tert butyl alcohol
Concen: 5.480 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX017793.D
Acq: 05 Aug 2020 13:22

Tgt Ion: 59 Resp: 8031
Ion Ratio Lower Upper
59 100
57 3.4 8.6 12.8#





#12

1,1-Dichloroethene

Concen: 0.395 ug/l

RT: 2.35 min Scan# 207

Delta R.T. -0.01 min

Lab File: VX017793.D

Acq: 05 Aug 2020 13:22

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB179-GW-418-420DL

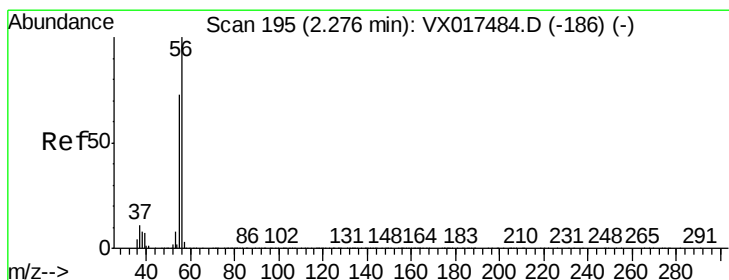
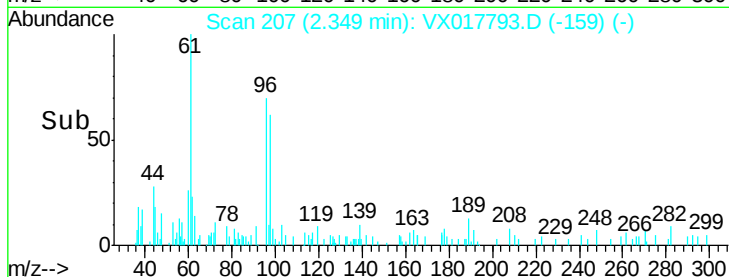
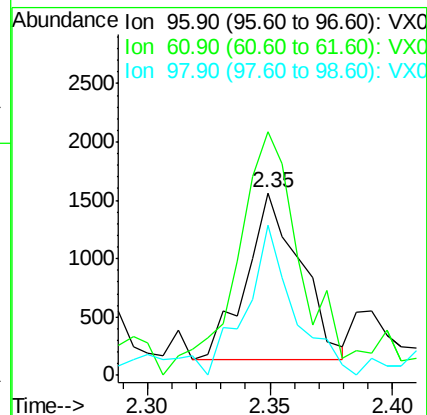
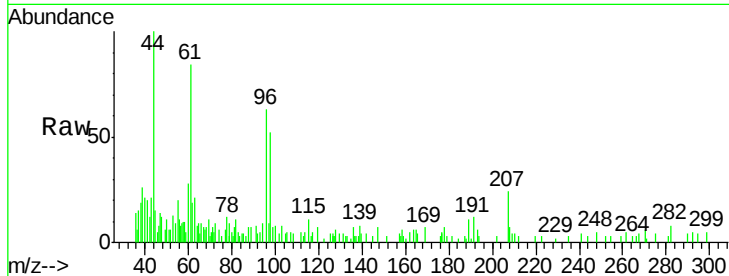
Tot Ion: 96 Resp: 2208

Ion Ratio Lower Upper

96 100

61 135.5 134.0 201.0

98 84.3 51.0 76.4#



#13

Acrolein

Concen: 4.818 ug/l

RT: 2.28 min Scan# 196

Delta R.T. 0.01 min

Lab File: VX017793.D

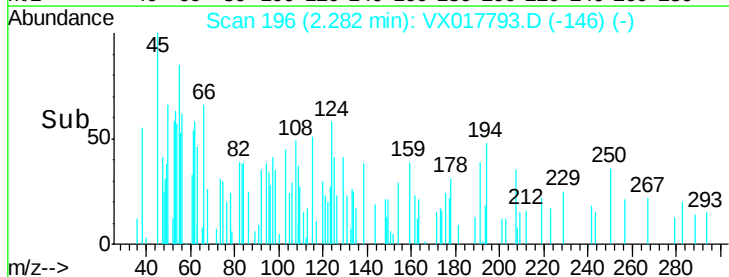
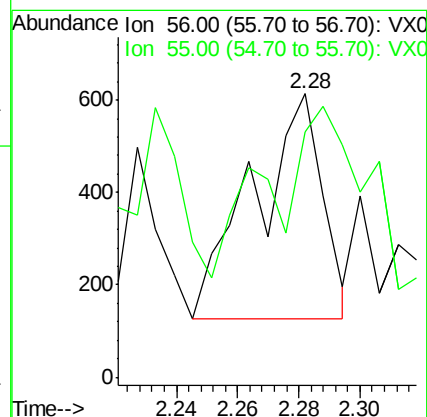
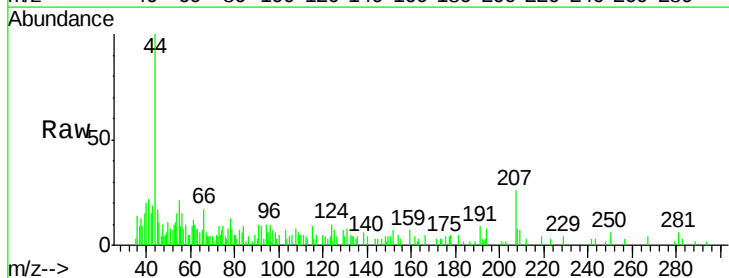
Acq: 05 Aug 2020 13:22

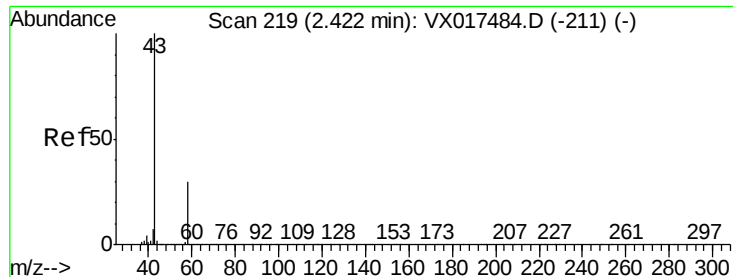
Tgt Ion: 56 Resp: 762

Ion Ratio Lower Upper

56 100

55 78.9 57.4 86.2

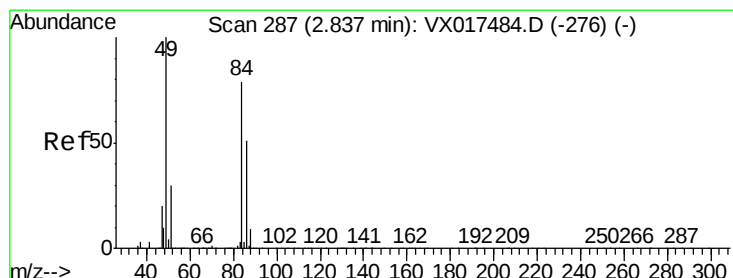
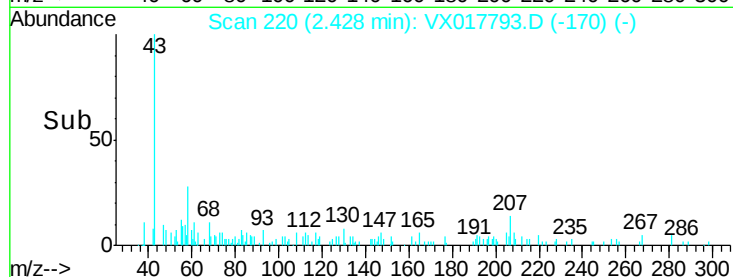
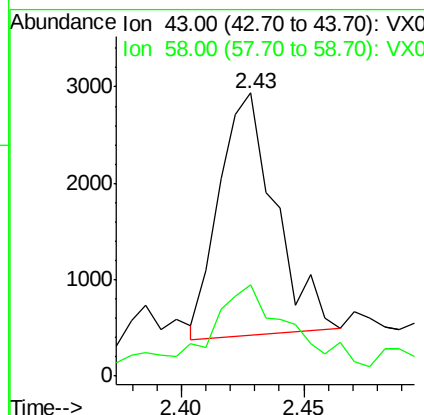
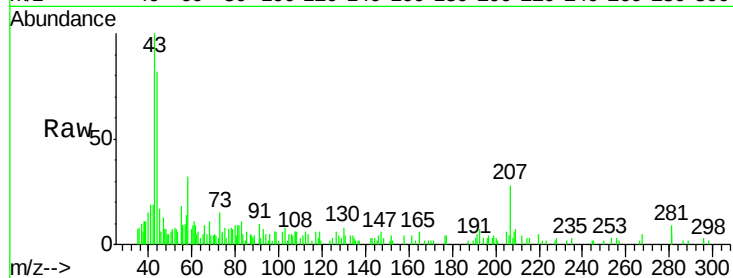




#16
Acetone
Concen: 1.309 ug/l
RT: 2.43 min Scan# 220
Delta R.T. 0.01 min
Lab File: VX017793.D
Acq: 05 Aug 2020 13:22

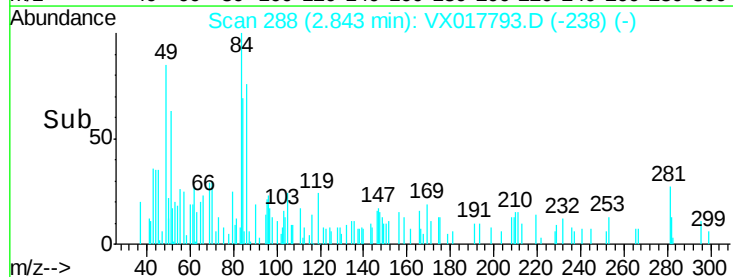
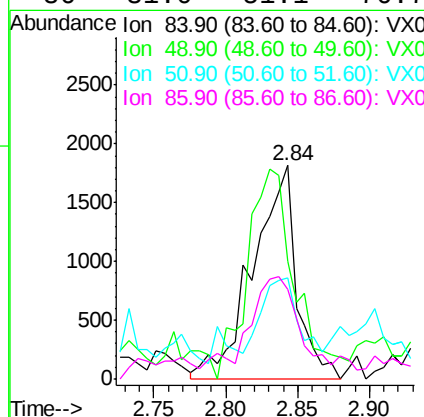
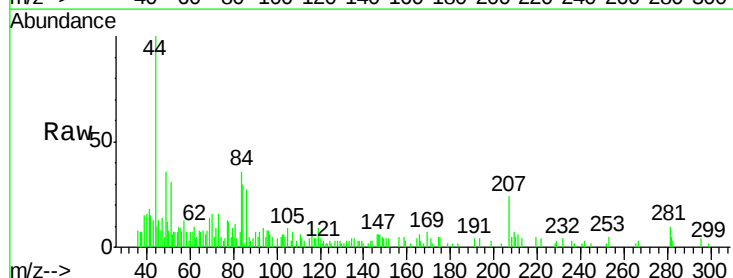
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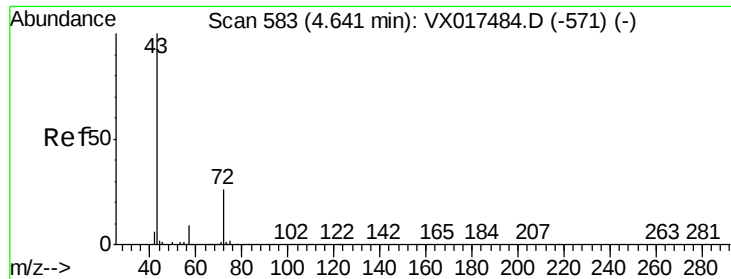
Tot Ion: 43 Resp: 4007
Ion Ratio Lower Upper
43 100
58 25.4 24.2 36.4



#20
Methylene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX017793.D
Acq: 05 Aug 2020 13:22

Tgt Ion: 84 Resp: 3814
Ion Ratio Lower Upper
84 100
49 45.4 100.3 150.5#
51 34.1 30.5 45.7
86 31.0 51.1 76.7#

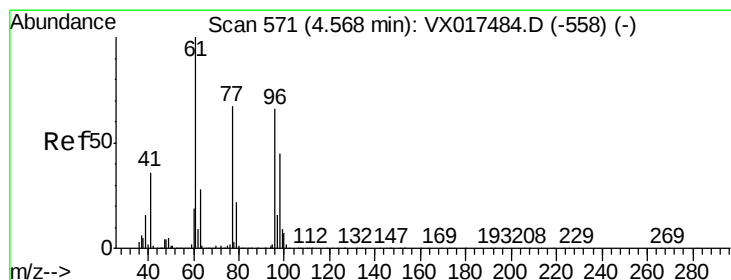
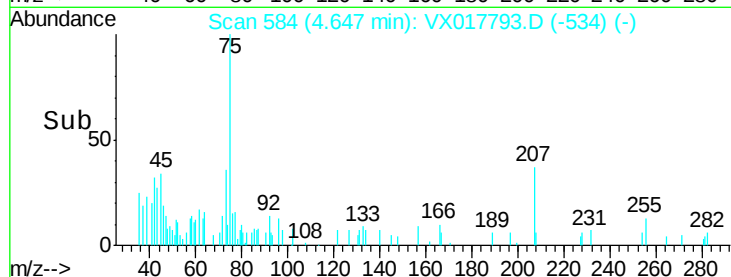
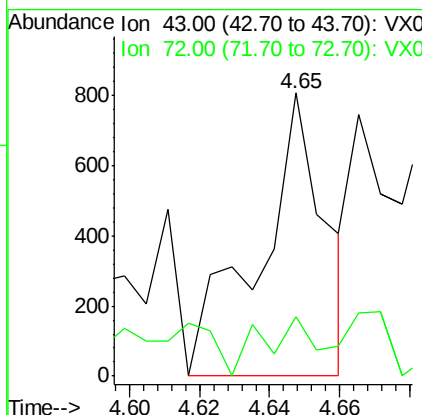
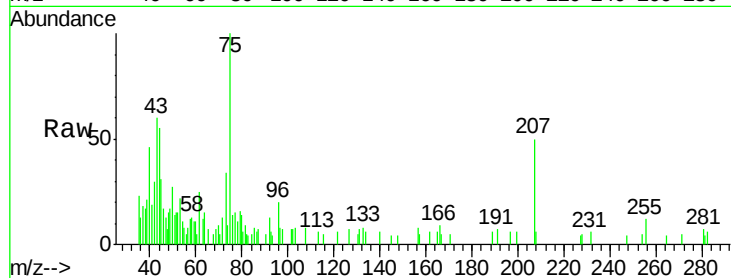




#25
2-Butanone
Concen: 0.242 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017793.D
Acq: 05 Aug 2020 13:22

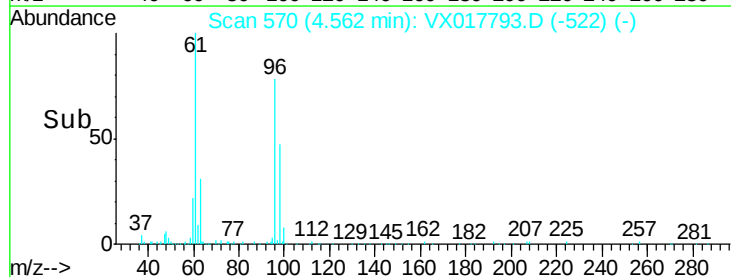
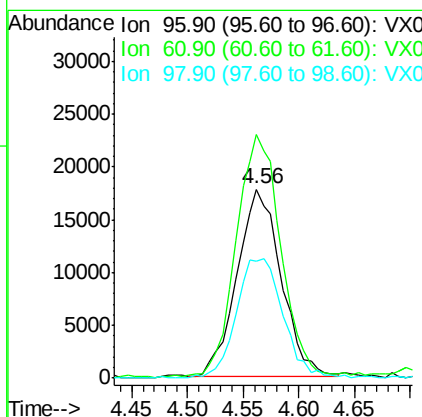
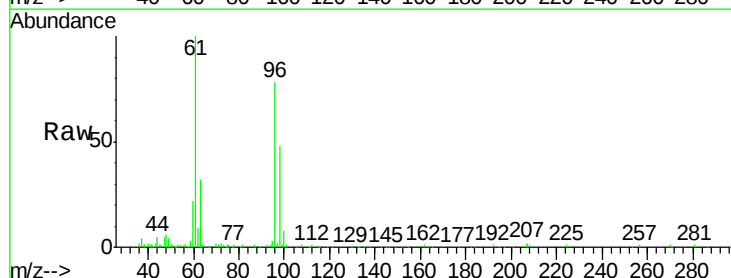
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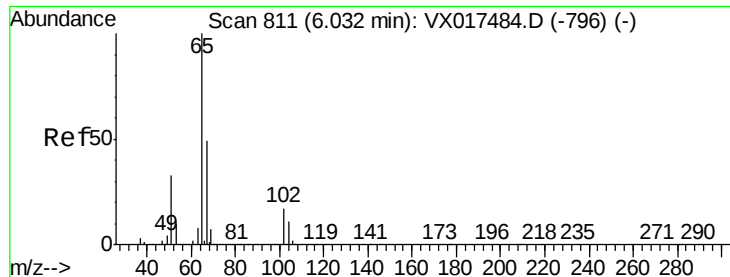
Tot Ion: 43 Resp: 1053
Ion Ratio Lower Upper
43 100
72 10.3 19.0 28.4#



#27
cis-1,2-Dichloroethene
Concen: 7.558 ug/l
RT: 4.56 min Scan# 570
Delta R.T. -0.01 min
Lab File: VX017793.D
Acq: 05 Aug 2020 13:22

Tgt Ion: 96 Resp: 49173
Ion Ratio Lower Upper
96 100
61 130.1 0.0 301.2
98 66.9 0.0 130.0





#33

1,2-Dichloroethane-d4

Concen: 49.637 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX017793.D

Acq: 05 Aug 2020 13:22

Instrument :

MSVOA_X

ClientSampleId :

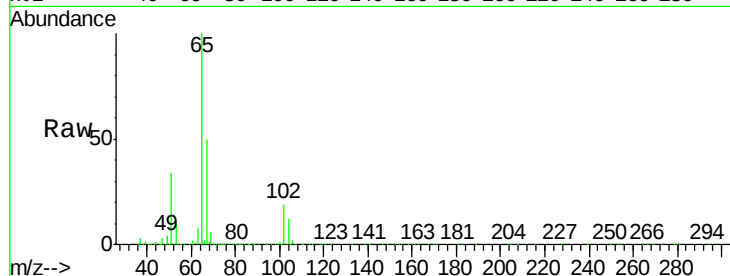
BP-VPB179-GW-418-420DL

Tot Ion: 65 Resp: 345149

Ion Ratio Lower Upper

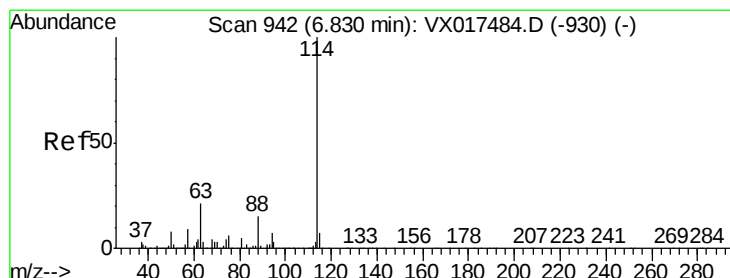
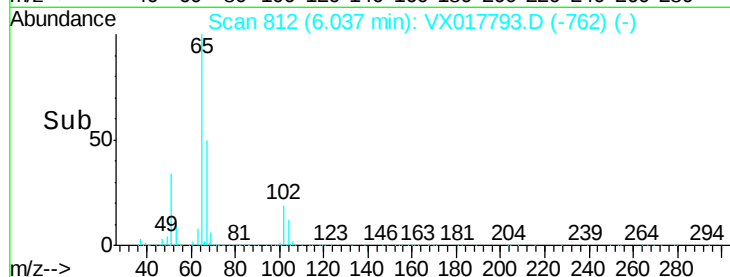
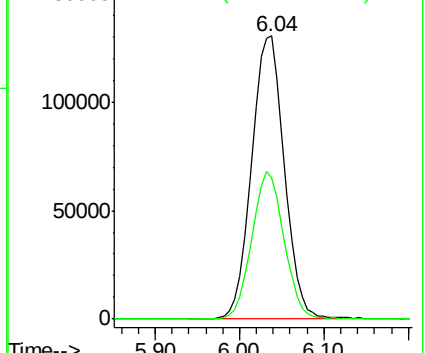
65 100

67 51.4 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017793.D

Acq: 05 Aug 2020 13:22

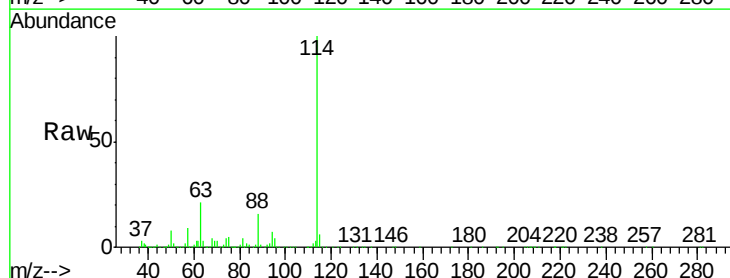
Tgt Ion: 114 Resp: 751773

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.6

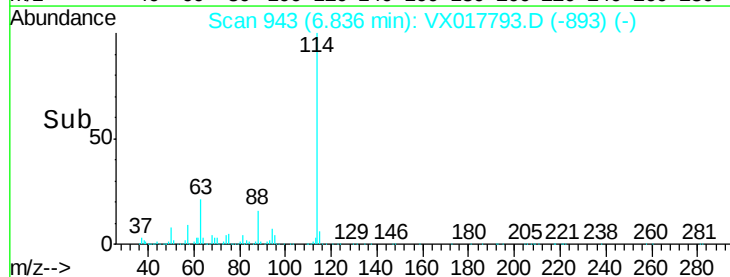
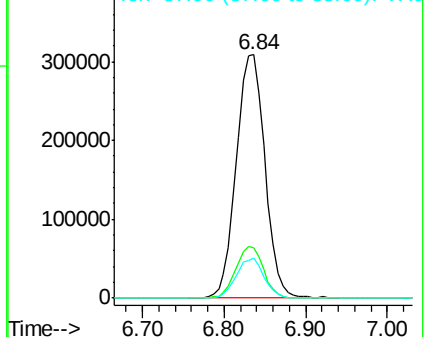
88 16.4 0.0 33.4

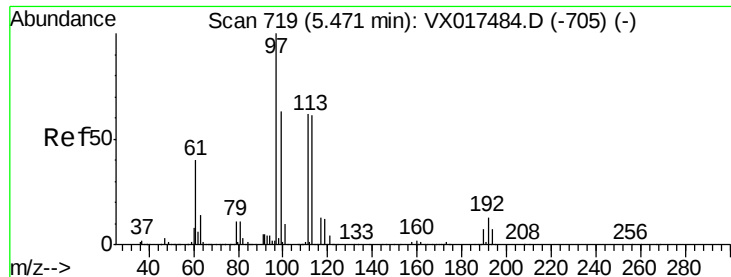


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

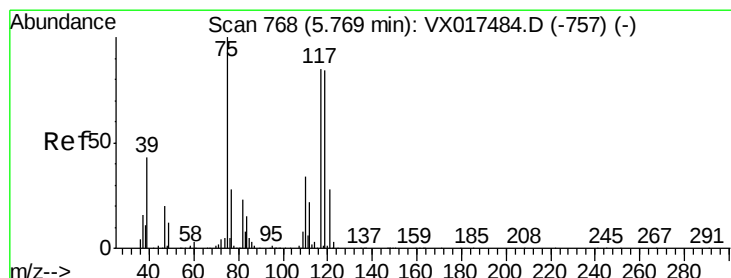
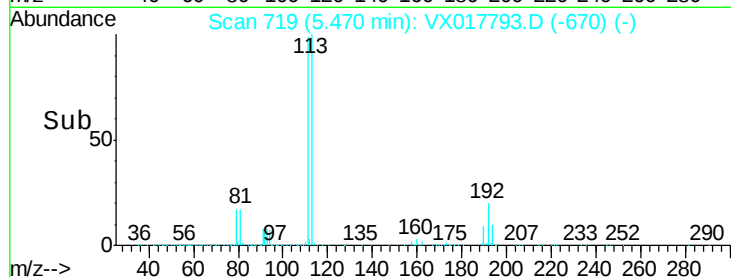
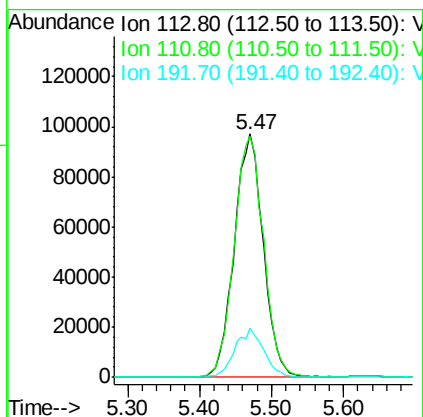
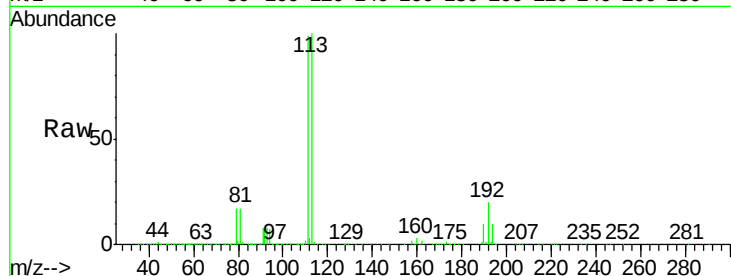




#35
 Dibromofluoromethane
 Concen: 53.983 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX017793.D
 Acq: 05 Aug 2020 13:22

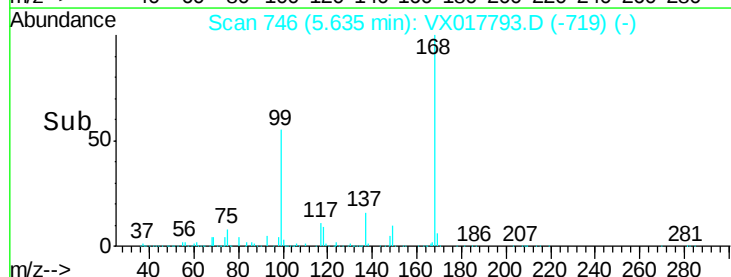
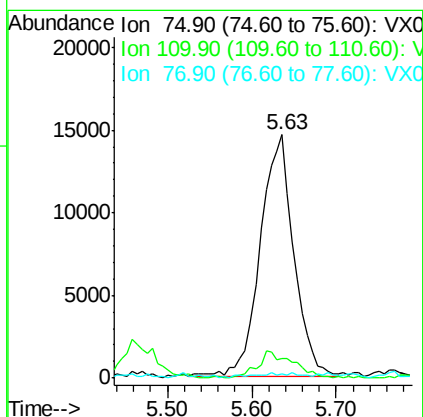
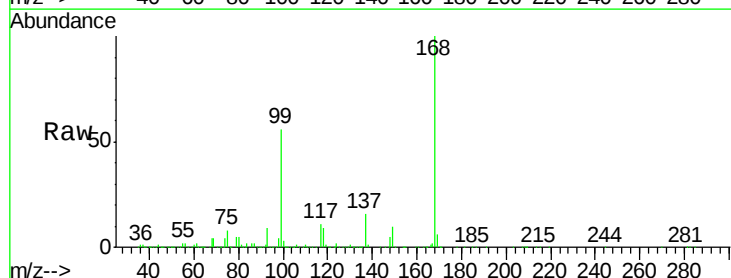
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB179-GW-418-420DL

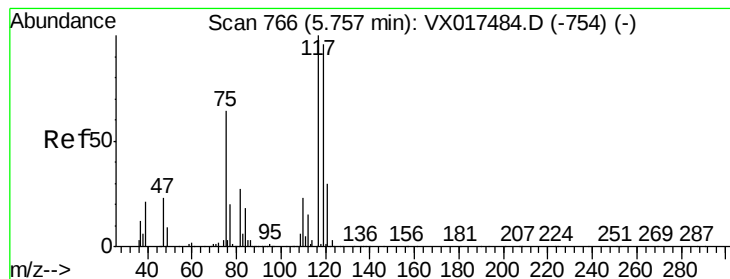
Tot Ion	Ratio	Lower	Upper
113	100		
111	100.7	80.7	121.1
192	20.0	16.9	25.3



#36
 1,1-Dichloropropene
 Concen: 5.494 ug/l
 RT: 5.63 min Scan# 746
 Delta R.T. -0.13 min
 Lab File: VX017793.D
 Acq: 05 Aug 2020 13:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	12.1	18.1	54.3#
77	0.4	24.6	37.0#





#38

Carbon Tetrachloride

Concen: 6.271 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017793.D

Acq: 05 Aug 2020 13:22

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB179-GW-418-420DL

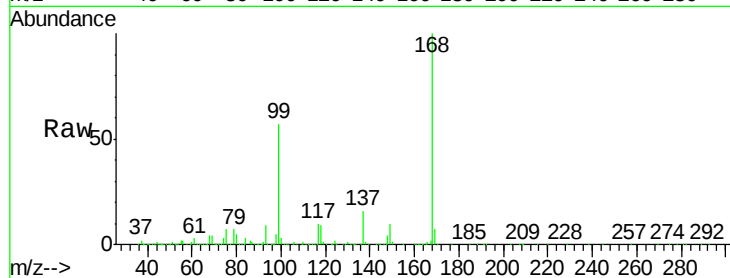
Tot Ion:117 Resp: 54907

Ion Ratio Lower Upper

117 100

119 6.8 75.4 113.0#

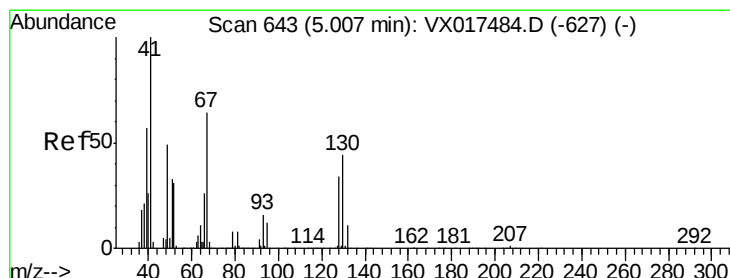
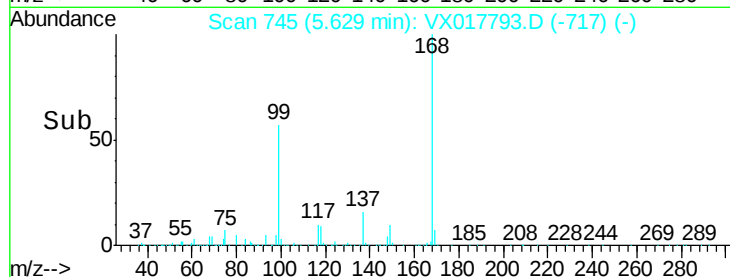
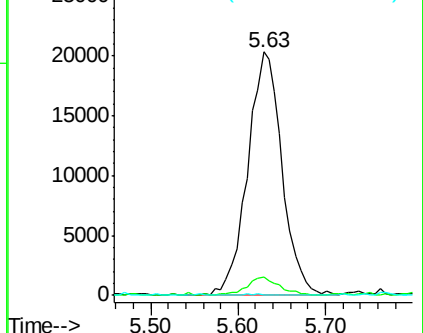
121 0.0 24.3 36.5#



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



#41

Methacrylonitrile

Concen: 0.211 ug/l

RT: 5.03 min Scan# 647

Delta R.T. 0.02 min

Lab File: VX017793.D

Acq: 05 Aug 2020 13:22

Tgt Ion: 41 Resp: 956

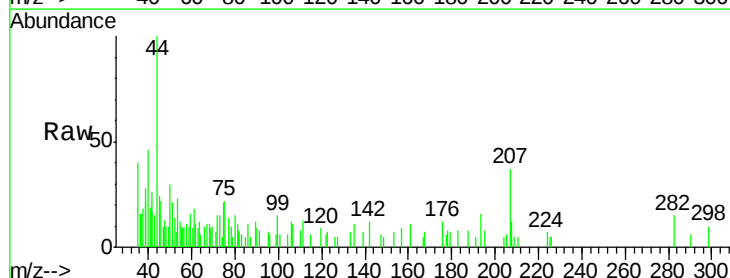
Ion Ratio Lower Upper

41 100

39 0.0 43.9 65.9#

67 0.0 54.0 81.0#

52 21.3 23.0 34.6#

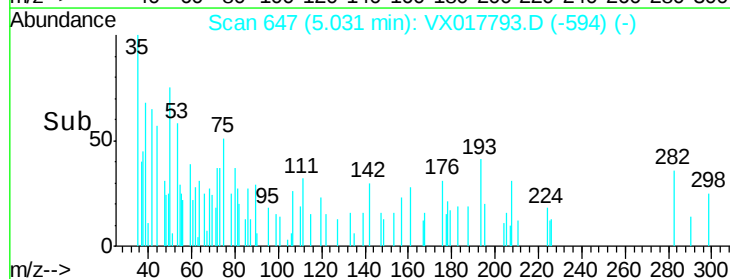
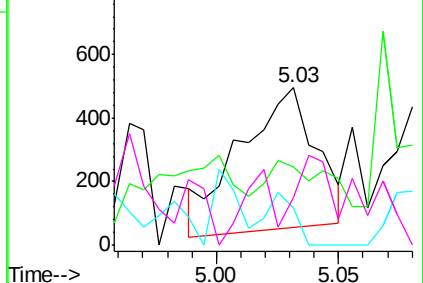


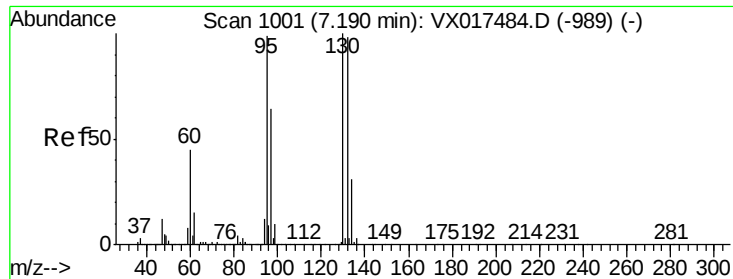
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#44

Trichloroethene

Concen: 56.074 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX017793.D

Acq: 05 Aug 2020 13:22

Instrument :

MSVOA_X

ClientSampleId :

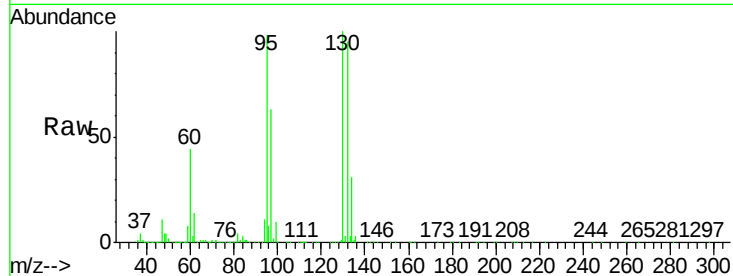
BP-VPB179-GW-418-420DL

Tot Ion:130 Resp: 338744

Ion Ratio Lower Upper

130 100

95 97.6 0.0 189.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

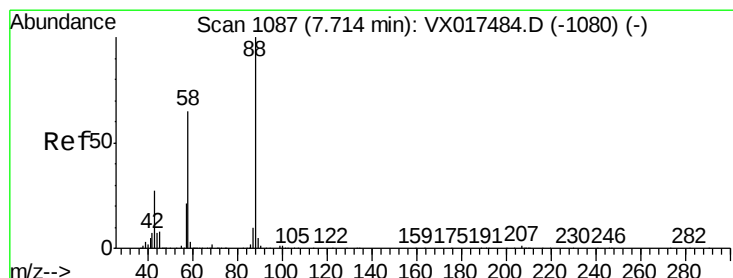
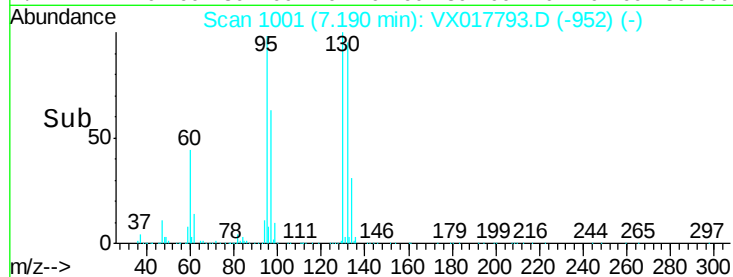
150000

100000

50000

0

Time-->



#49

1,4-Dioxane

Concen: 2.910 ug/l

RT: 7.73 min Scan# 1090

Delta R.T. 0.02 min

Lab File: VX017793.D

Acq: 05 Aug 2020 13:22

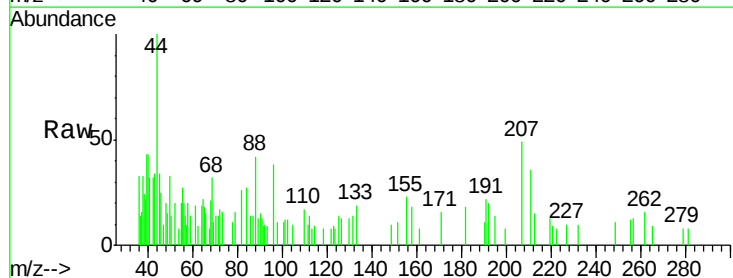
Tgt Ion: 88 Resp: 360

Ion Ratio Lower Upper

88 100

43 94.4 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

500

400

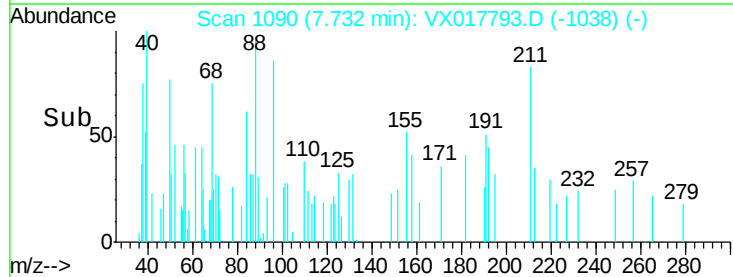
300

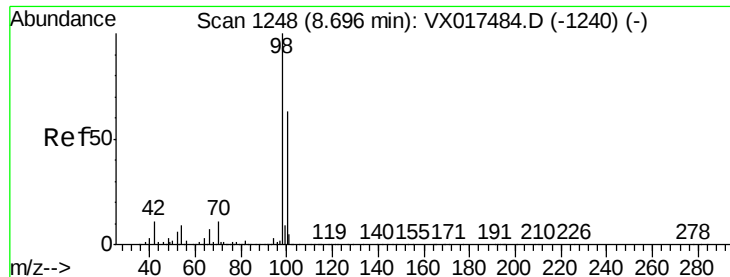
200

100

0

Time-->





#50

Toluene-d8

Concen: 47.789 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017793.D

Acq: 05 Aug 2020 13:22

Instrument :

MSVOA_X

ClientSampleId :

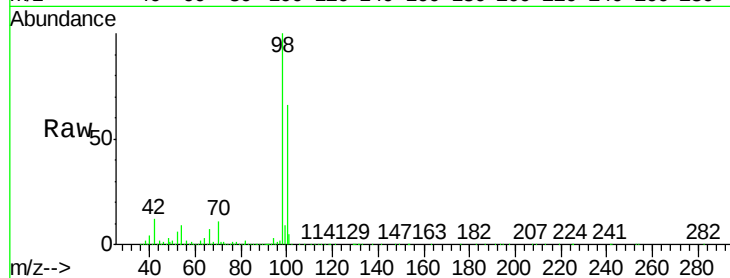
BP-VPB179-GW-418-420DL

Tot Ion: 98 Resp: 866797

Ion Ratio Lower Upper

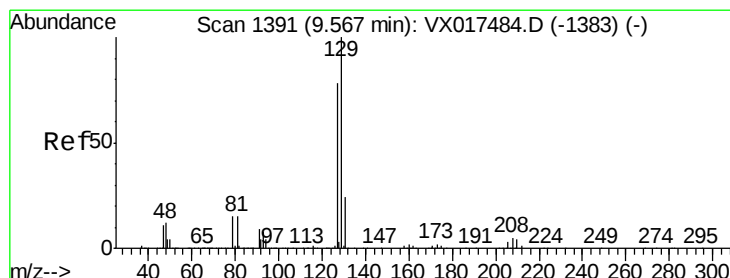
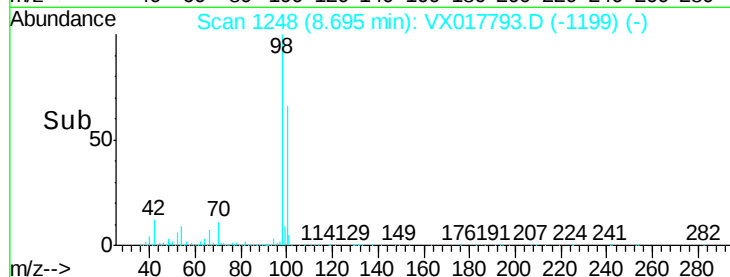
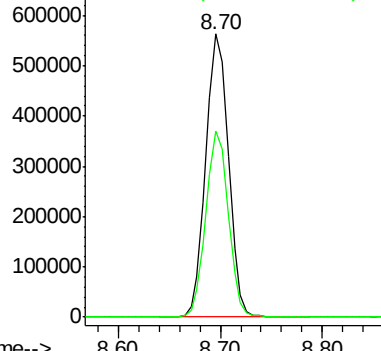
98 100

100 64.8 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 4.416 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX017793.D

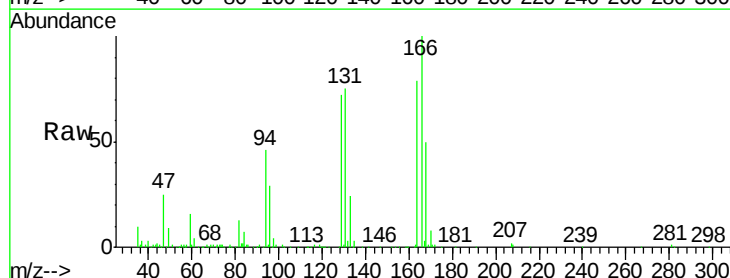
Acq: 05 Aug 2020 13:22

Tgt Ion: 129 Resp: 31000

Ion Ratio Lower Upper

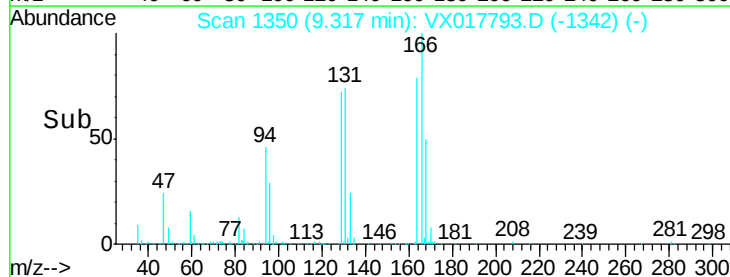
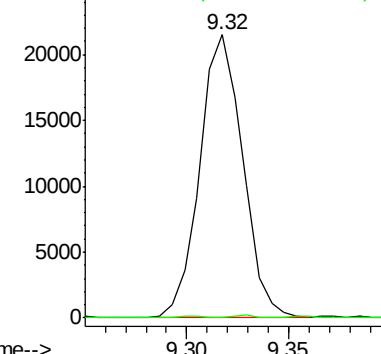
129 100

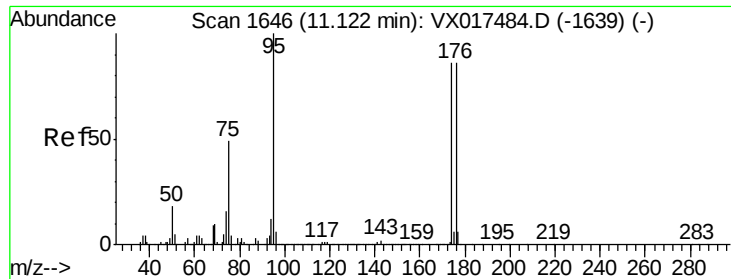
127 0.4 38.4 115.1#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

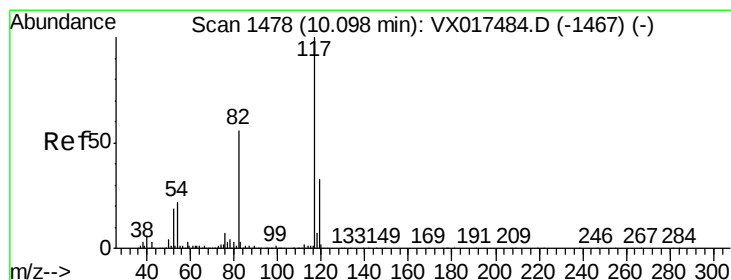
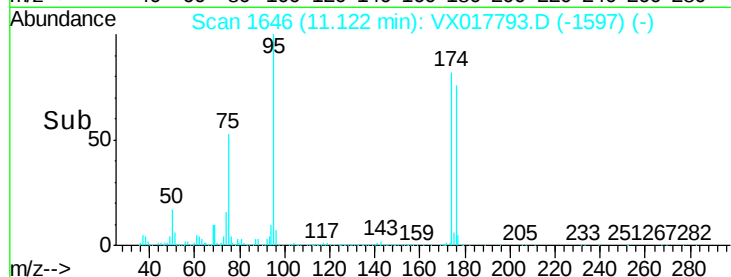
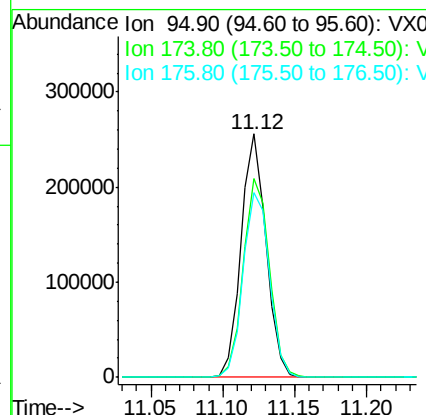
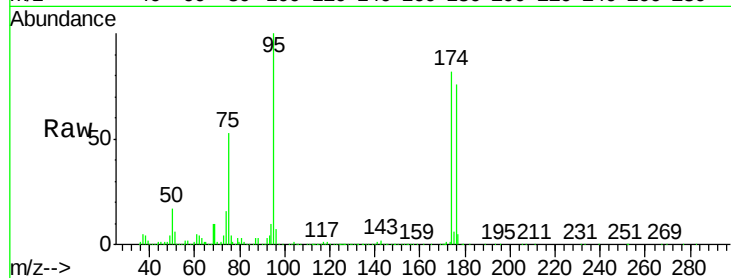




#62
4-Bromofluorobenzene
Concen: 42.820 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017793.D
Acq: 05 Aug 2020 13:22

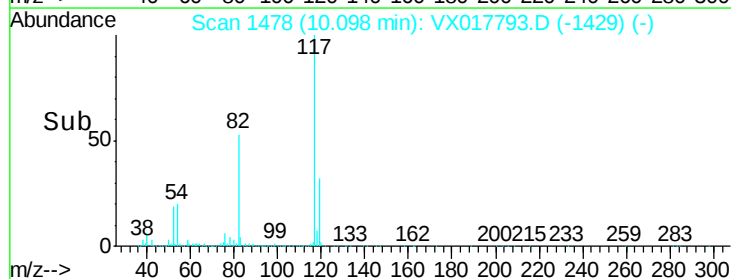
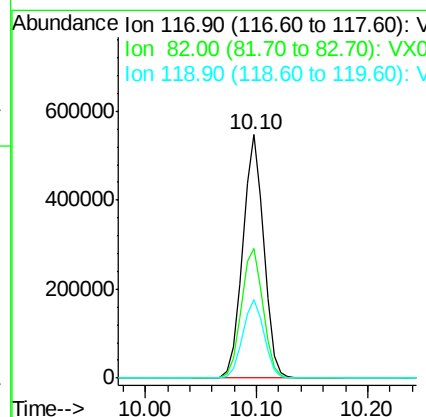
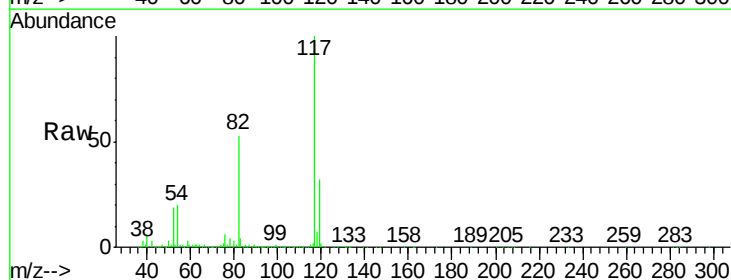
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB179-GW-418-420DL

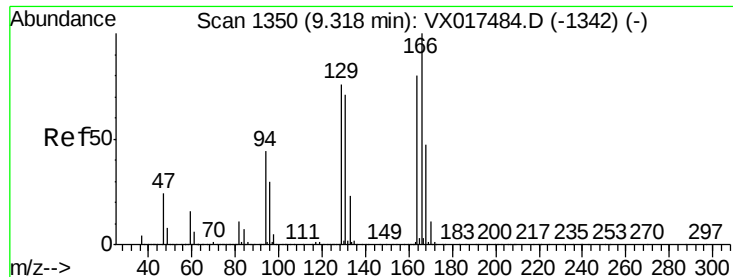
Tot Ion	Ratio	Lower	Upper
95	100		
174	84.9	0.0	169.0
176	79.8	0.0	161.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017793.D
Acq: 05 Aug 2020 13:22

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.2	44.0	66.0
119	32.3	25.4	38.0





#64

Tetrachloroethene

Concen: 5.186 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX017793.D

Acq: 05 Aug 2020 13:22

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB179-GW-418-420DL

Tot Ion:164 Resp: 33036

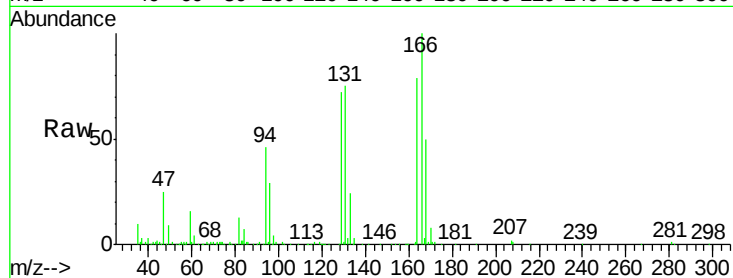
Ion Ratio Lower Upper

164 100

166 126.3 100.6 150.8

129 91.5 75.0 112.6

131 93.9 75.2 112.8

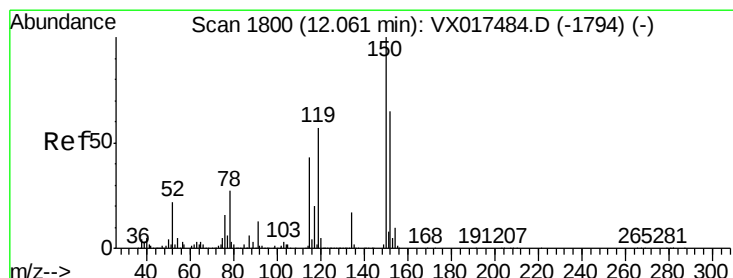
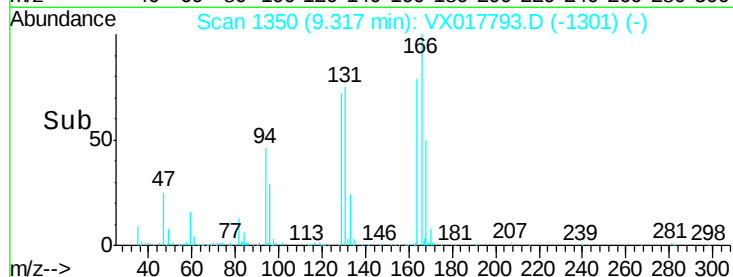
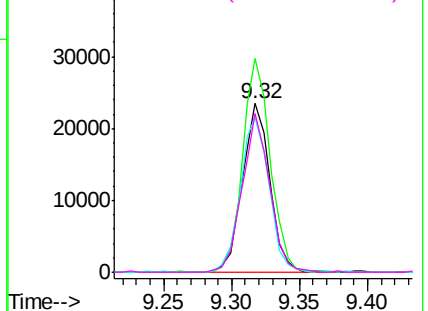


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX017793.D

Acq: 05 Aug 2020 13:22

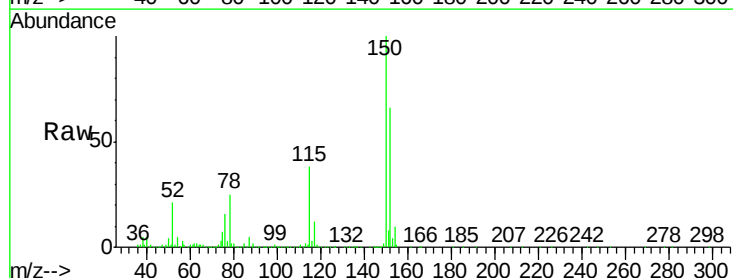
Tgt Ion:152 Resp: 329847

Ion Ratio Lower Upper

152 100

115 58.7 65.5 196.6#

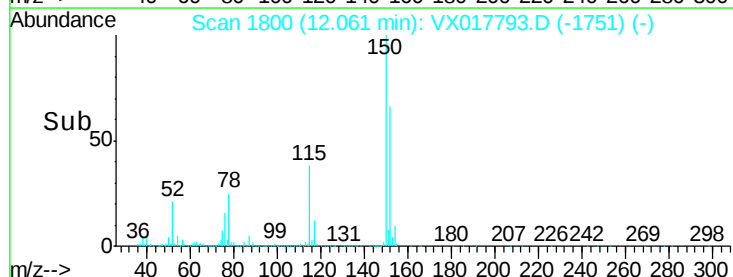
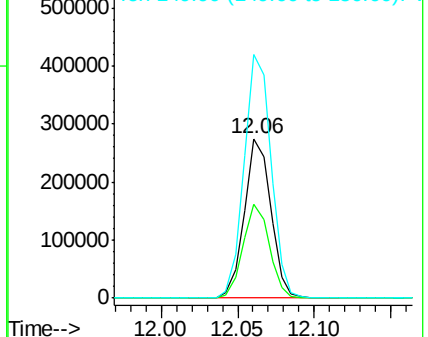
150 156.1 0.0 412.6

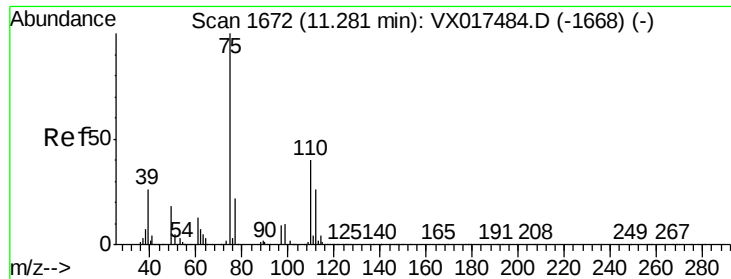


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.902 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017793.D

Acq: 05 Aug 2020 13:22

Instrument :

MSVOA_X

ClientSampleId :

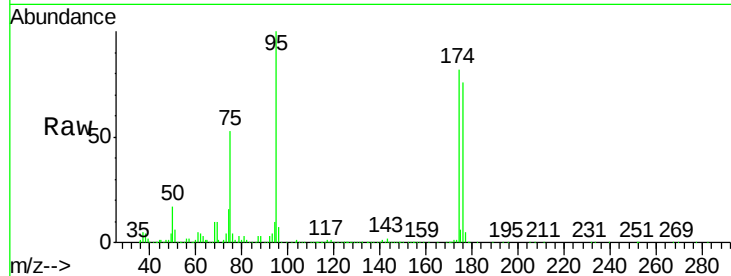
BP-VPB179-GW-418-420DL

Tot Ion: 75 Resp: 162176

Ion Ratio Lower Upper

75 100

77 1.3 21.8 65.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

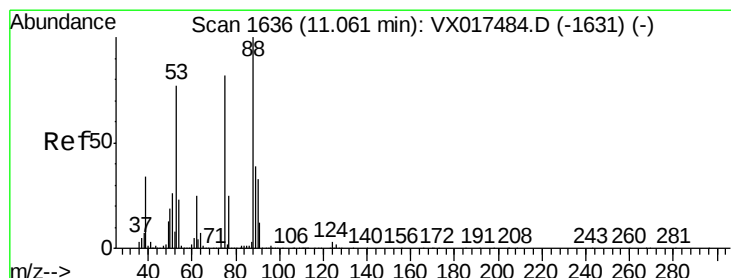
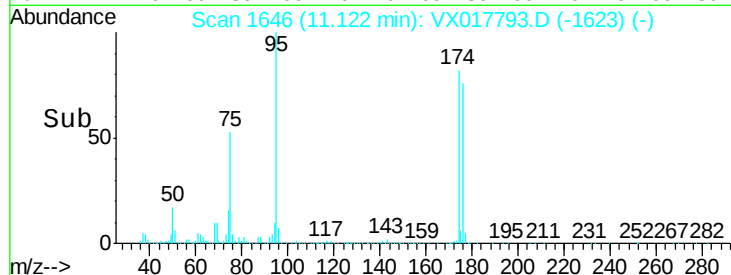
150000

100000

50000

0

Time--> 11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 60.227 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017793.D

Acq: 05 Aug 2020 13:22

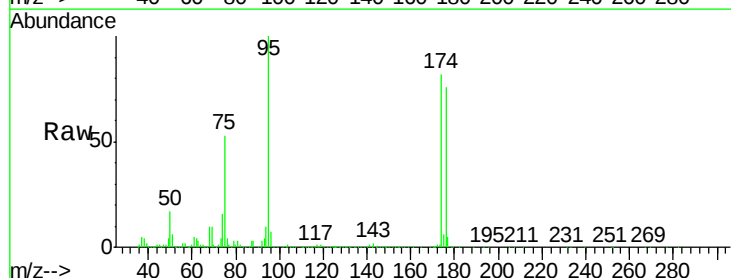
Tgt Ion: 75 Resp: 162176

Ion Ratio Lower Upper

75 100

53 0.5 75.9 113.9#

89 0.0 37.8 56.6#



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

11.12

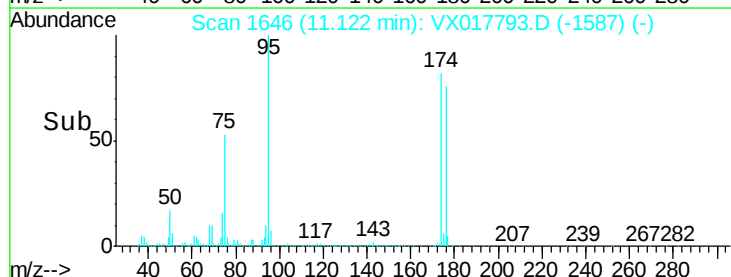
150000

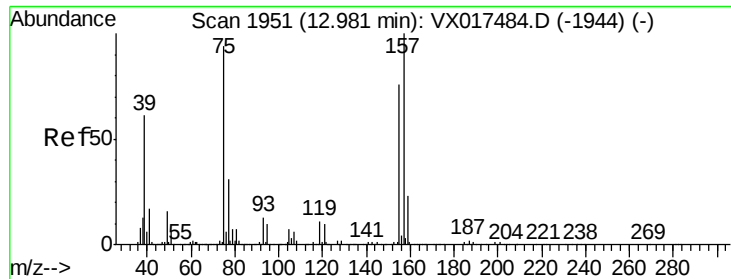
100000

50000

0

Time--> 11.05 11.10 11.15 11.20

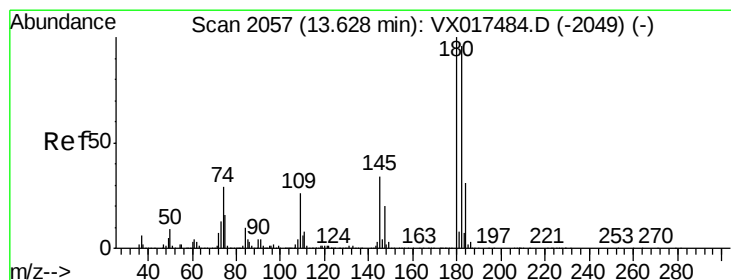
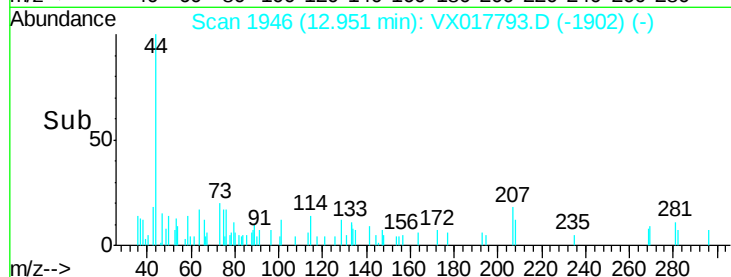
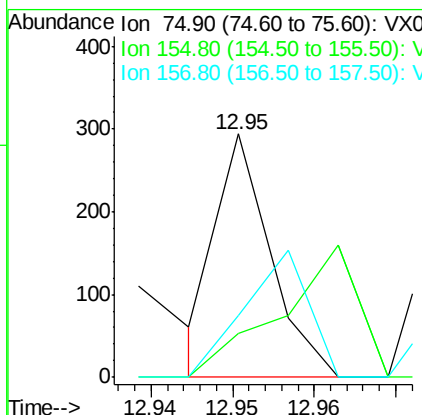
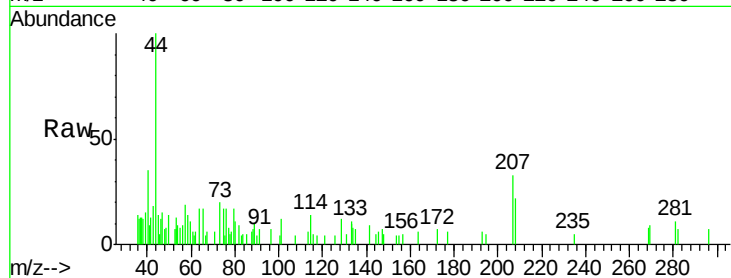




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.640 ug/l
 RT: 12.95 min Scan# 1946
 Delta R.T. -0.03 min
 Lab File: VX017793.D
 Acq: 05 Aug 2020 13:22

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB179-GW-418-420DL

Tot Ion	Ratio	Lower	Upper
75	100		
155	78.9	42.3	126.8
157	62.4	54.3	162.9



#93
 1,2,4-Trichlorobenzene
 Concen: 0.200 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX017793.D
 Acq: 05 Aug 2020 13:22

Tgt Ion	Ratio	Lower	Upper
180	100		
182	77.6	47.5	142.6
145	30.6	15.4	46.4

