

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072320\
 Data File : VX017495.D
 Acq On : 23 Jul 2020 16:22
 Operator : JC/SP
 Sample : L3416-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-MW180D-GW-20200720

Quant Time: Jul 24 05:57:48 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	503608	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	908925	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	946340	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	498914	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	362499	56.04	ug/l	0.00
Spiked Amount			Recovery	=	112.08%	
35) Dibromofluoromethane	5.47	113	276179	45.43	ug/l	0.00
Spiked Amount			Recovery	=	90.86%	
50) Toluene-d8	8.70	98	1124269	51.27	ug/l	0.00
Spiked Amount			Recovery	=	102.54%	
62) 4-Bromofluorobenzene	11.12	95	485782	55.35	ug/l	0.00
Spiked Amount			Recovery	=	110.70%	

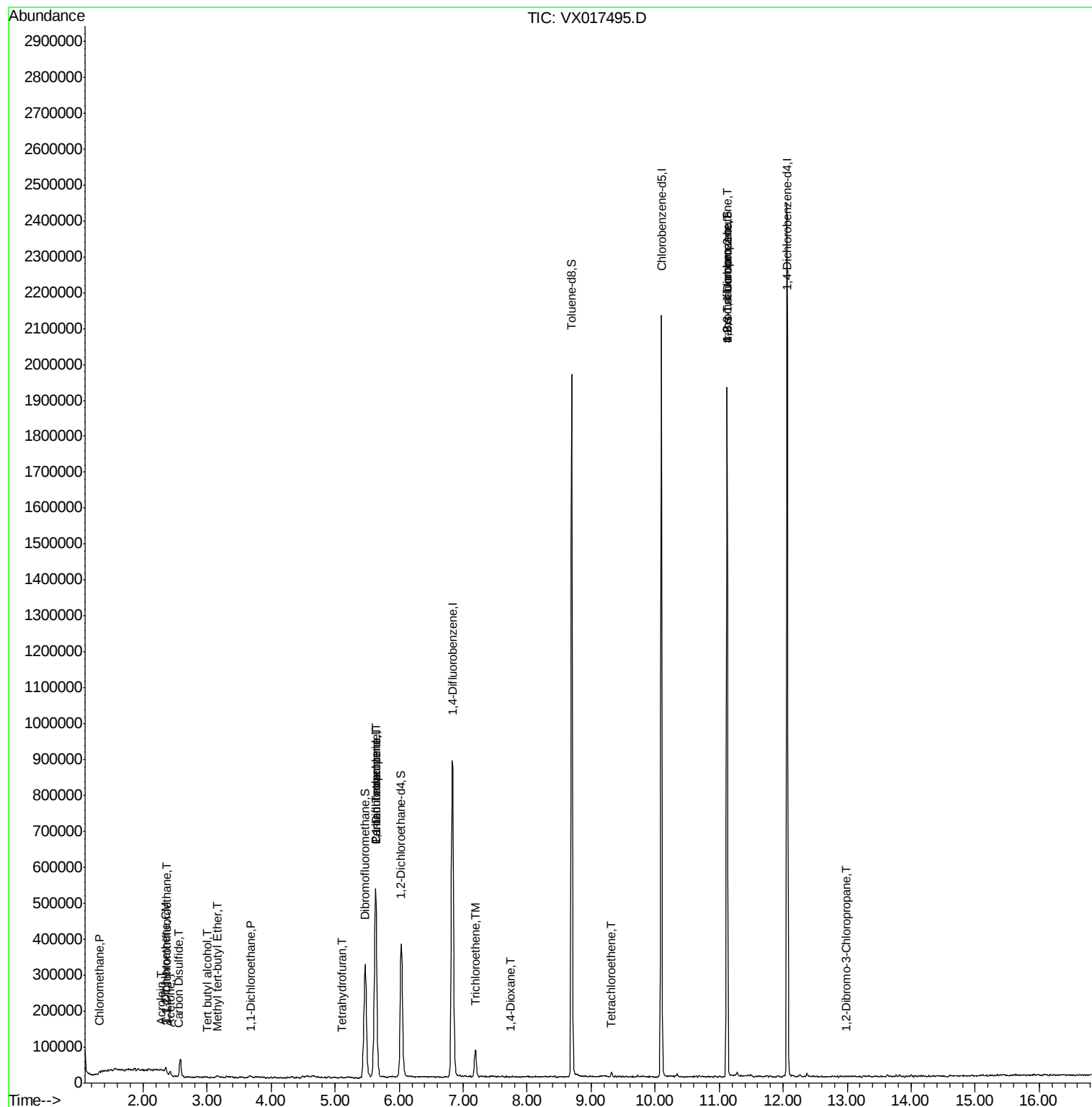
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.18	85	511	Below Cal		93
3) Chloromethane	1.32	50	2839	0.820 ug/l #		41
5) Bromomethane	1.62	94	105	Below Cal #		10
6) Chloroethane	1.72	64	307	Below Cal #		66
8) Diethyl Ether	2.18	74	834	Below Cal		71
9) 1,1,2-Trichlorotrifluoroet	2.37	101	3654	0.668 ug/l #		81
11) Tert butyl alcohol	3.00	59	594	0.436 ug/l #		88
12) 1,1-Dichloroethene	2.36	96	2234	0.429 ug/l #		68
13) Acrolein	2.27	56	839	4.941 ug/l		93
16) Acetone	2.42	43	11861	4.166 ug/l #		83
17) Carbon Disulfide	2.56	76	3481	0.220 ug/l		97
19) Methyl tert-butyl Ether	3.17	73	4947	0.275 ug/l		94
20) Methylene Chloride	2.82	84	1195	Below Cal #		49
24) 1,1-Dichloroethane	3.68	63	7159	0.716 ug/l #		92
29) Tetrahydrofuran	5.11	42	507	0.202 ug/l #		81
36) 1,1-Dichloropropene	5.63	75	36941	4.238 ug/l #		52
38) Carbon Tetrachloride	5.63	117	52837	4.991 ug/l #		16
44) Trichloroethene	7.19	130	28613	3.918 ug/l		97
49) 1,4-Dioxane	7.74	88	824	5.509 ug/l #		67
64) Tetrachloroethene	9.32	164	2623	0.309 ug/l #		65
76) 1,2,3-Trichloropropane	11.12	75	243751	23.751 ug/l #		34
81) trans-1,4-Dichloro-2-buten	11.12	75	243751	59.847 ug/l #		11
92) 1,2-Dibromo-3-Chloropropan	12.98	75	250	2.655 ug/l #		12

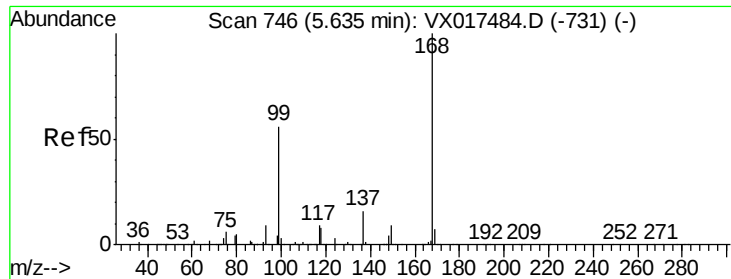
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX072320\
Data File : VX017495.D
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Quant Time: Jul 24 05:57:48 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
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: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017495.D

Acq: 23 Jul 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

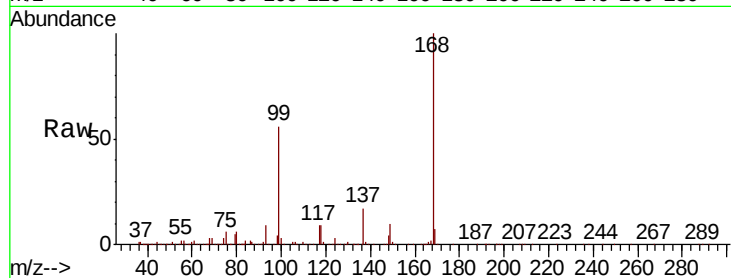
BP-TT-MW180D-GW-20200720

Tot Ion:168 Resp: 503608

Ion Ratio Lower Upper

168 100

99 56.4 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

200000

150000

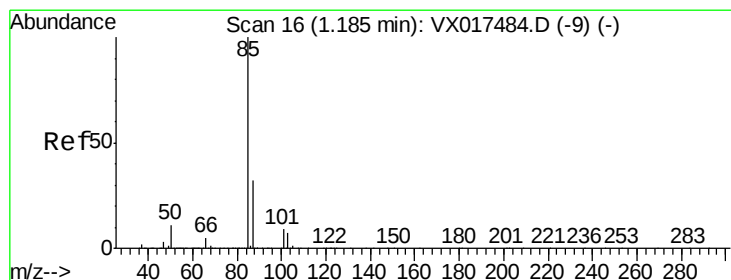
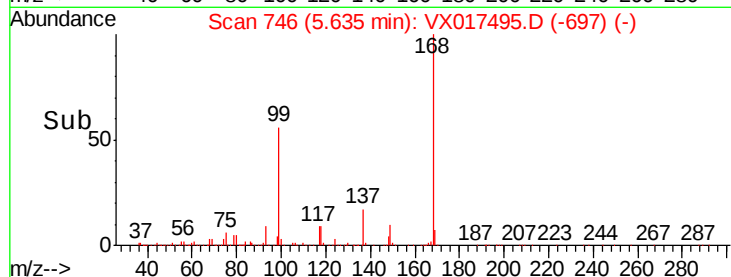
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 15

Delta R.T. -0.01 min

Lab File: VX017495.D

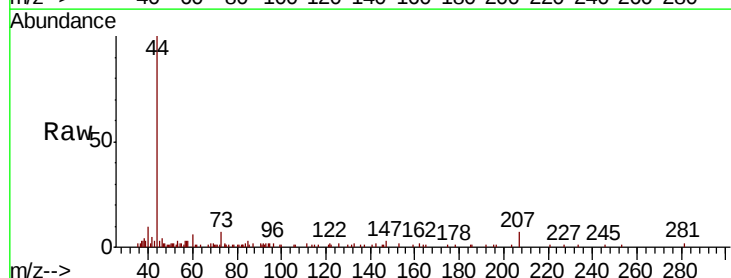
Acq: 23 Jul 2020 16:22

Tgt Ion: 85 Resp: 511

Ion Ratio Lower Upper

85 100

87 36.0 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

300

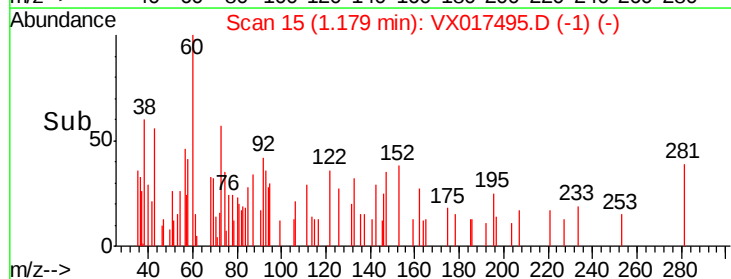
200

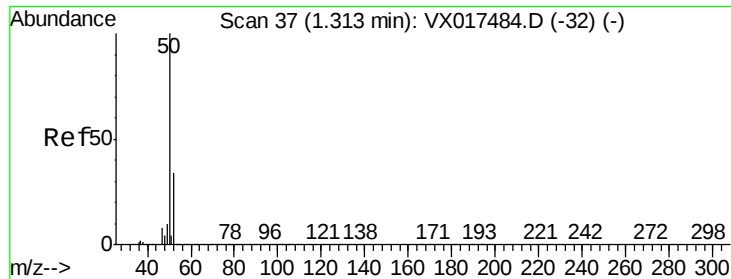
100

0

Time-->

1.14 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.820 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017495.D

Acq: 23 Jul 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

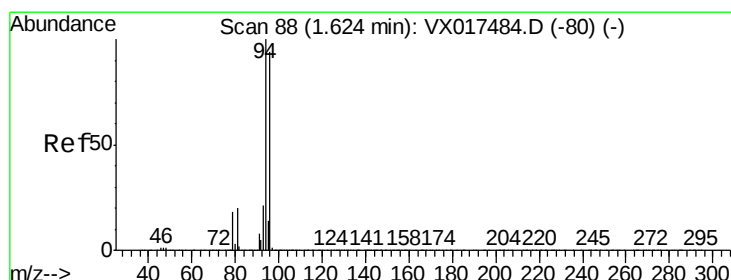
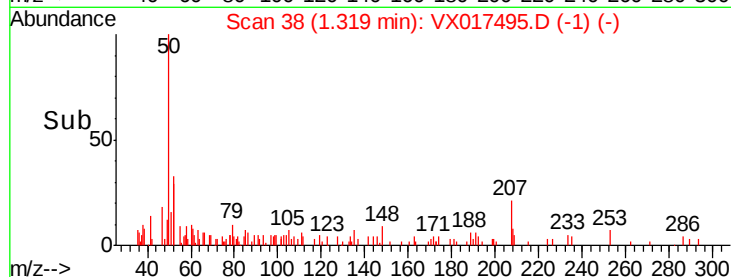
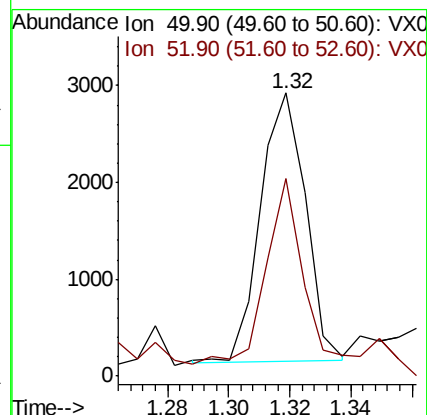
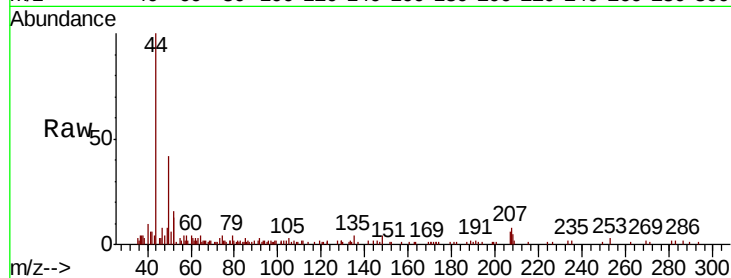
BP-TT-MW180D-GW-20200720

Tot Ion: 50 Resp: 2839

Ion Ratio Lower Upper

50 100

52 65.7 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VX017495.D

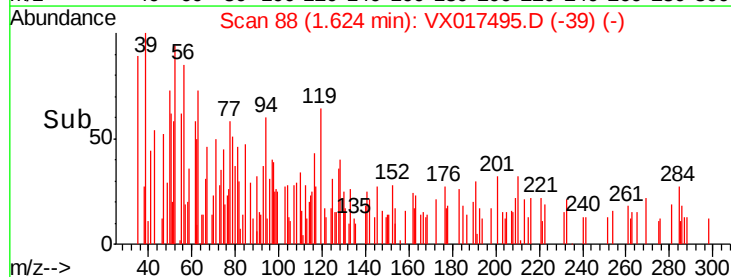
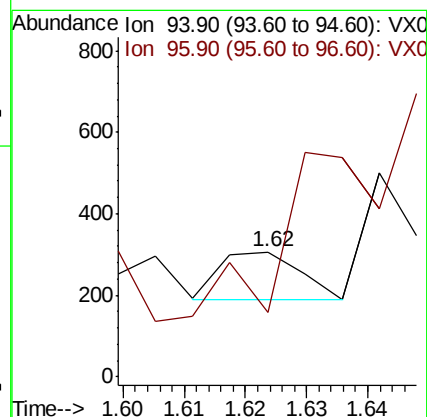
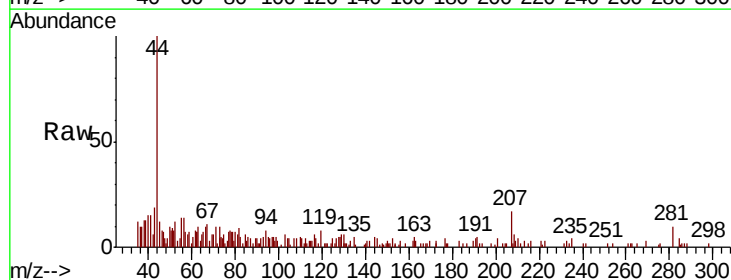
Acq: 23 Jul 2020 16:22

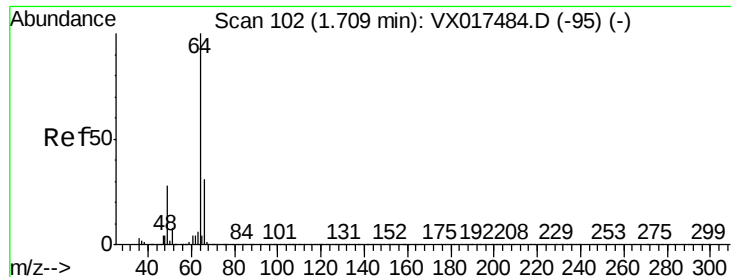
Tgt Ion: 94 Resp: 105

Ion Ratio Lower Upper

94 100

96 6.9 74.1 111.1#





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 103

Delta R.T. 0.01 min

Lab File: VX017495.D

Acq: 23 Jul 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

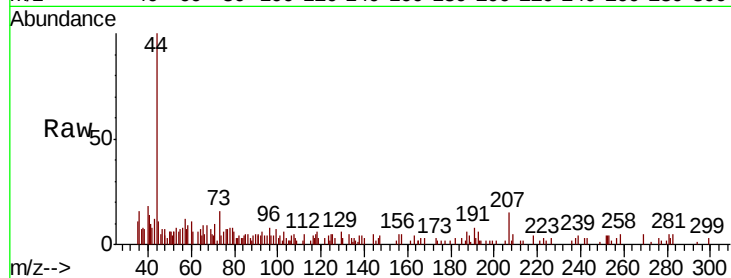
BP-TT-MW180D-GW-20200720

Tot Ion: 64 Resp: 307

Ion Ratio Lower Upper

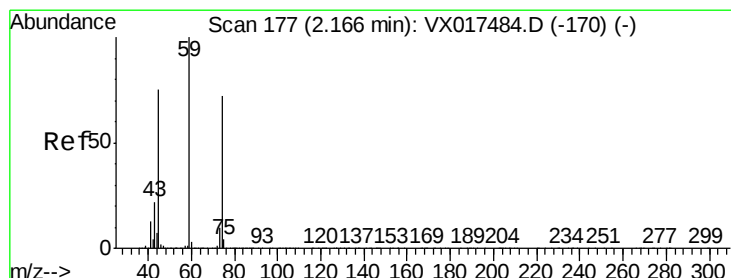
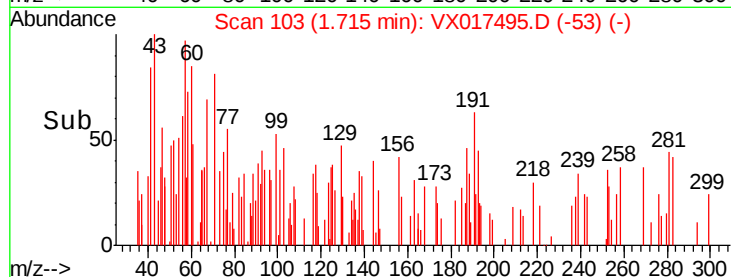
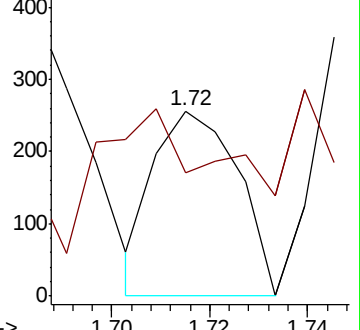
64 100

66 12.5 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: 2.18 min Scan# 179

Delta R.T. 0.01 min

Lab File: VX017495.D

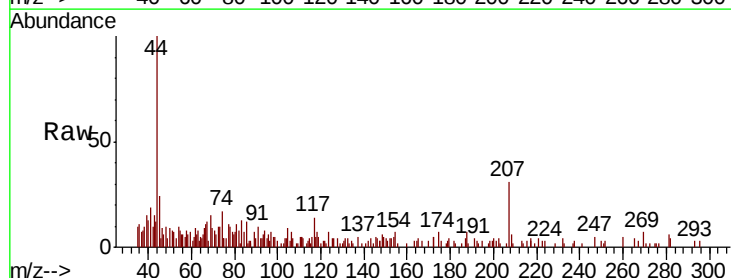
Acq: 23 Jul 2020 16:22

Tgt Ion: 74 Resp: 834

Ion Ratio Lower Upper

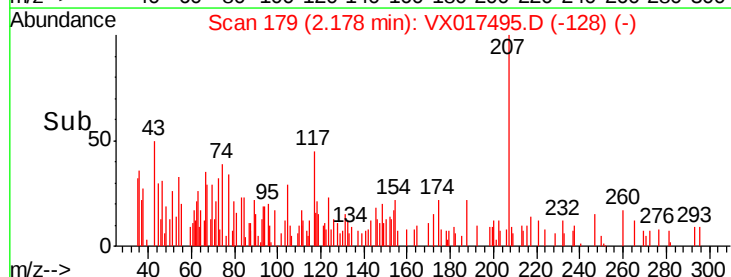
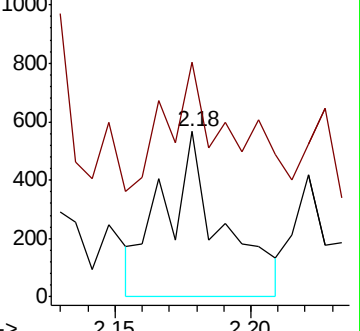
74 100

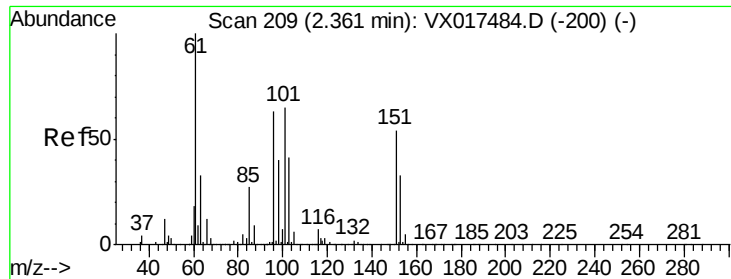
45 130.9 50.8 152.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.668 ug/l

RT: 2.37 min Scan# 210

Delta R.T. 0.01 min

Lab File: VX017495.D

Acq: 23 Jul 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW180D-GW-20200720

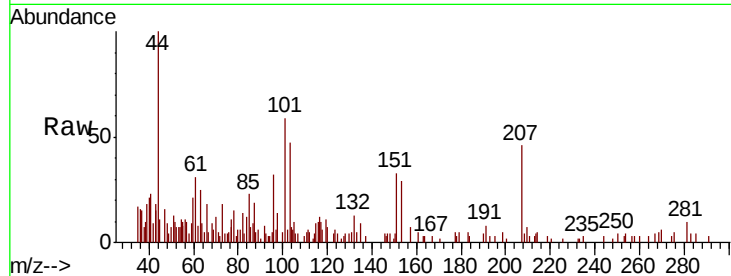
Tot Ion:101 Resp: 3654

Ion Ratio Lower Upper

101 100

85 34.2 34.8 52.2#

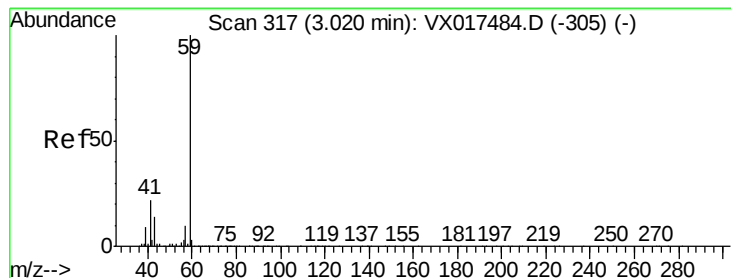
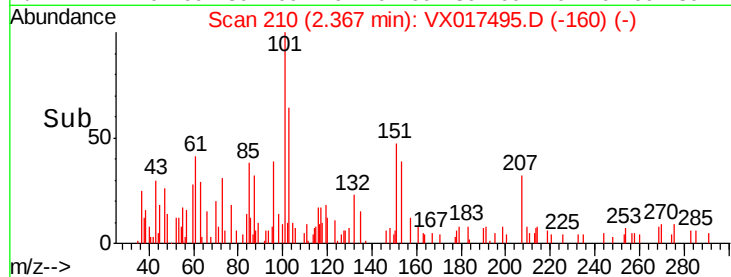
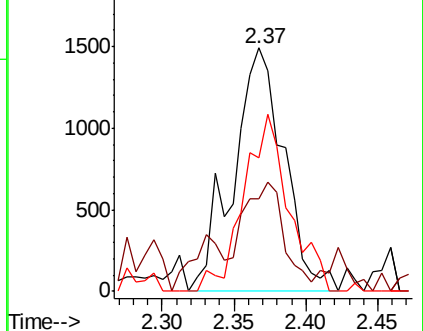
151 64.9 68.0 102.0#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 0.436 ug/l

RT: 3.00 min Scan# 314

Delta R.T. -0.02 min

Lab File: VX017495.D

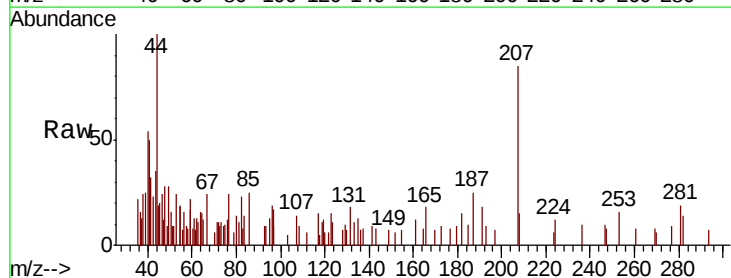
Acq: 23 Jul 2020 16:22

Tgt Ion: 59 Resp: 594

Ion Ratio Lower Upper

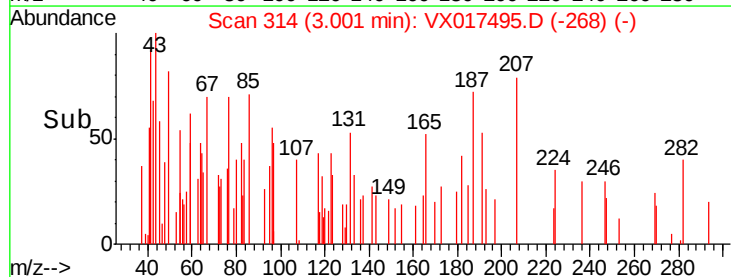
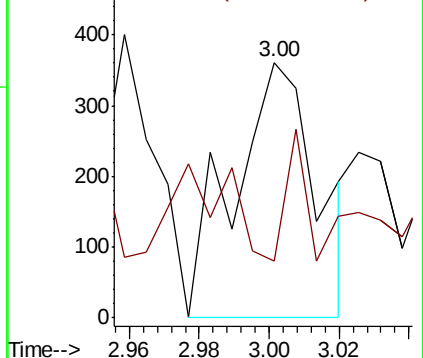
59 100

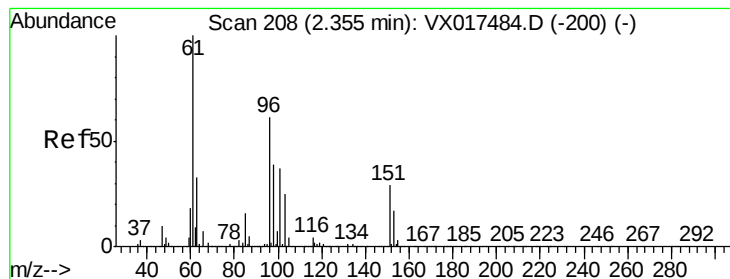
57 15.2 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.429 ug/l

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

Lab File: VX017495.D

Acq: 23 Jul 2020 16:22

Instrument :

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ClientSampleId :

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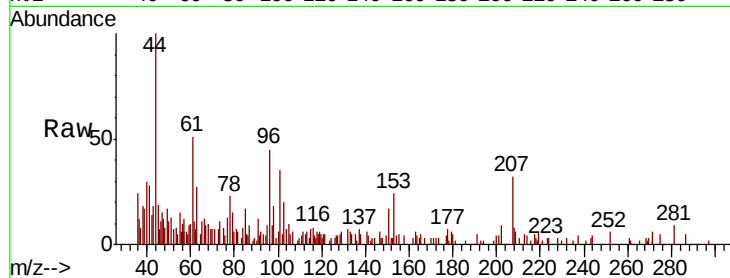
Tot Ion: 96 Resp: 2234

Ion Ratio Lower Upper

96 100

61 123.8 134.0 201.0#

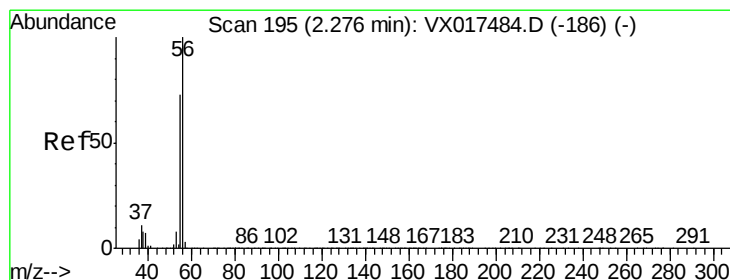
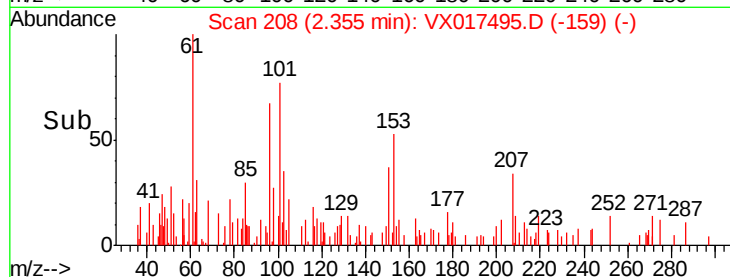
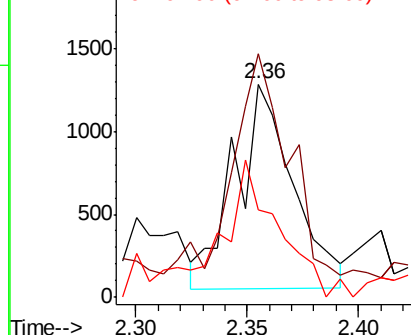
98 38.3 51.0 76.4#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#13

Acrolein

Concen: 4.941 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.01 min

Lab File: VX017495.D

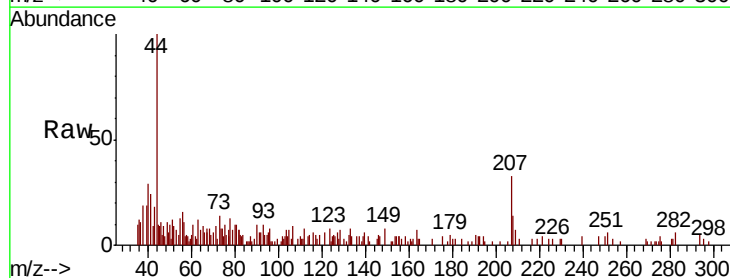
Acq: 23 Jul 2020 16:22

Tgt Ion: 56 Resp: 839

Ion Ratio Lower Upper

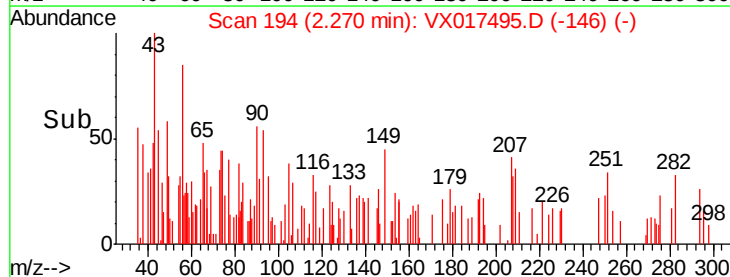
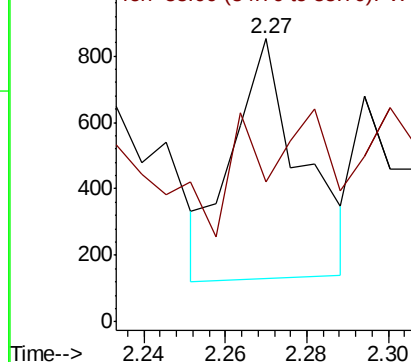
56 100

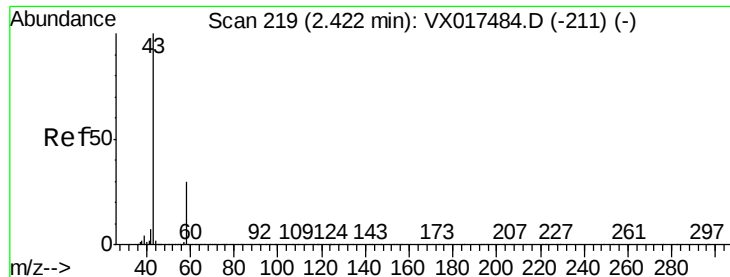
55 65.8 57.4 86.2



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 4.166 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017495.D

Acq: 23 Jul 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

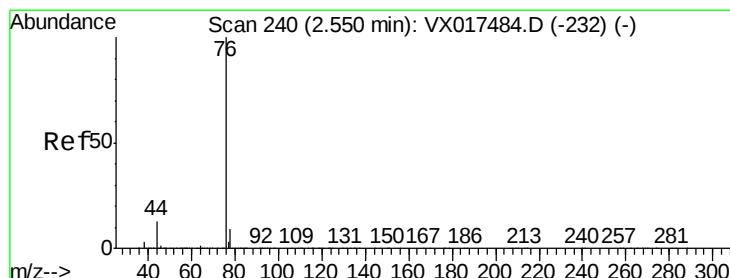
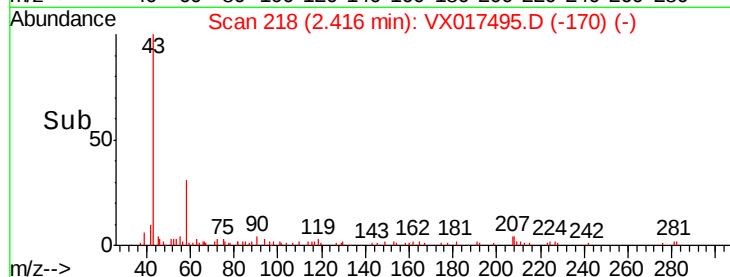
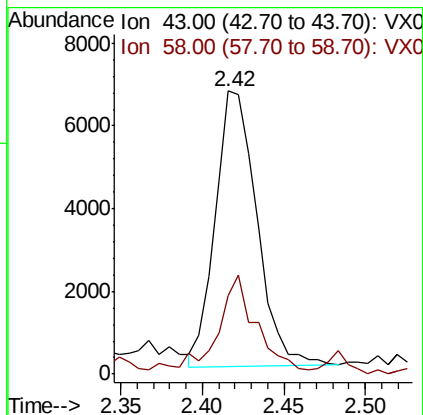
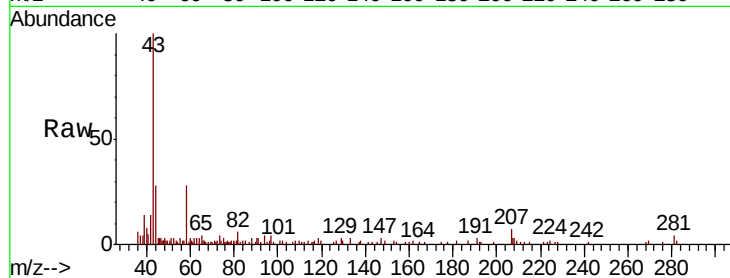
BP-TT-MW180D-GW-20200720

Tot Ion: 43 Resp: 11861

Ion Ratio Lower Upper

43 100

58 21.0 24.2 36.4#



#17

Carbon Disulfide

Concen: 0.220 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX017495.D

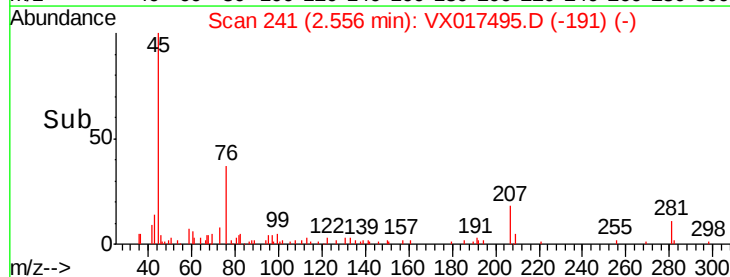
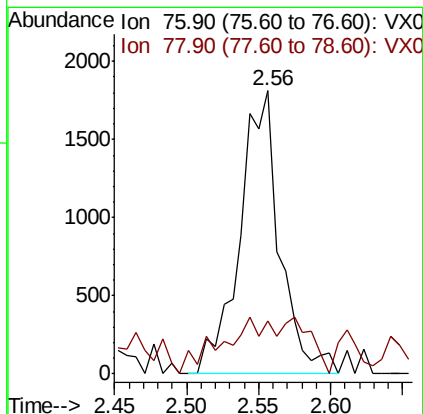
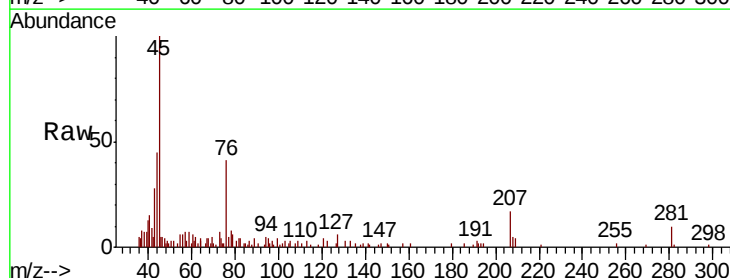
Acq: 23 Jul 2020 16:22

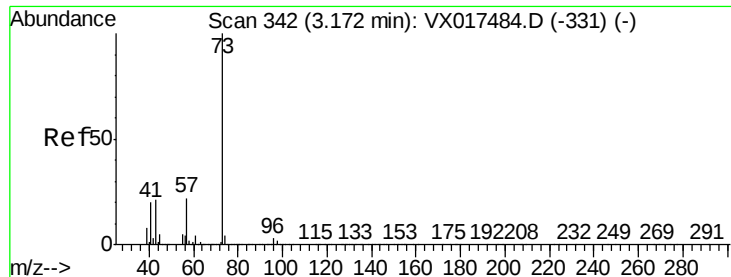
Tgt Ion: 76 Resp: 3481

Ion Ratio Lower Upper

76 100

78 10.4 7.5 11.3

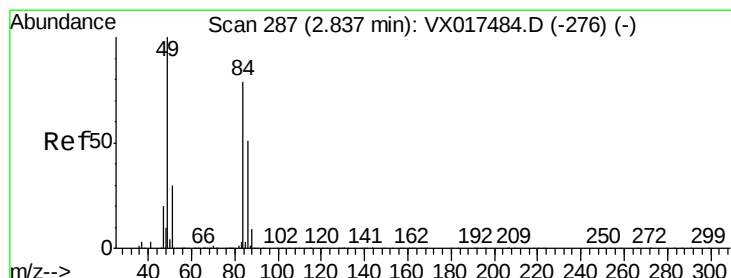
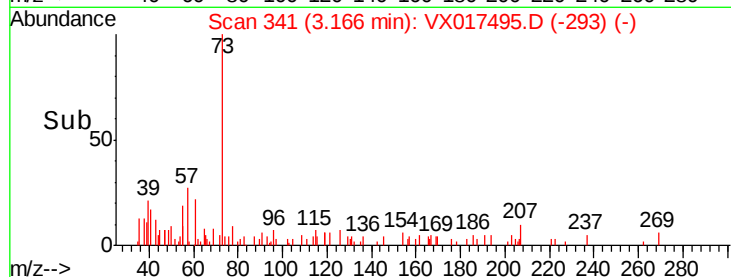
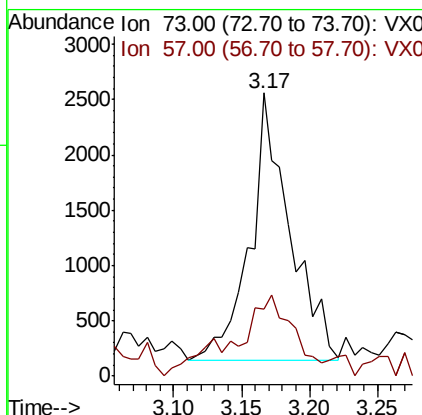
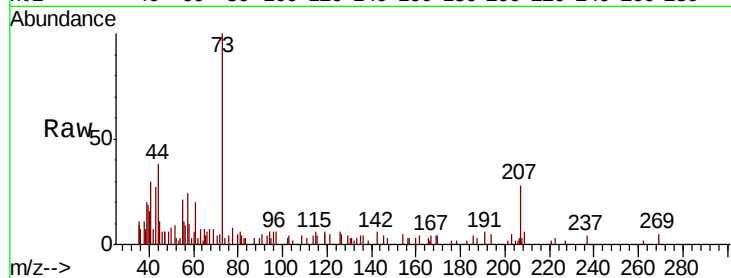




#19
Methyl tert-butyl Ether
Concen: 0.275 ug/l
RT: 3.17 min Scan# 341
Delta R.T. -0.01 min
Lab File: VX017495.D
Acq: 23 Jul 2020 16:22

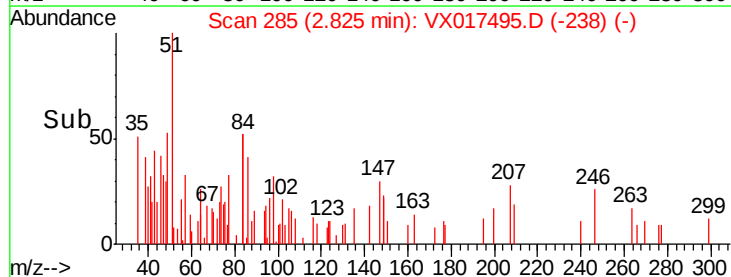
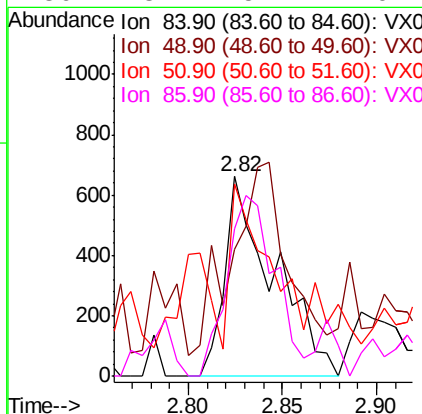
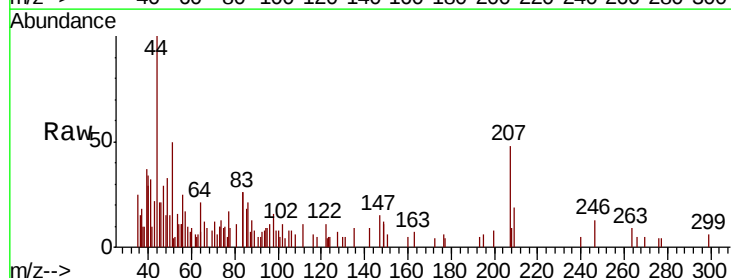
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-MW180D-GW-20200720

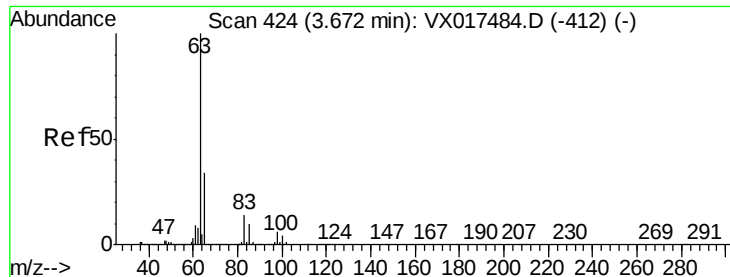
Tot Ion: 73 Resp: 4947
Ion Ratio Lower Upper
73 100
57 18.3 17.0 25.4



#20
Methylene Chloride
Concen: Below Cal
RT: 2.82 min Scan# 285
Delta R.T. -0.01 min
Lab File: VX017495.D
Acq: 23 Jul 2020 16:22

Tgt Ion: 84 Resp: 1195
Ion Ratio Lower Upper
84 100
49 39.4 100.3 150.5#
51 60.0 30.5 45.7#
86 73.7 51.1 76.7





#24

1,1-Dichloroethane

Concen: 0.716 ug/l

RT: 3.68 min Scan# 425

Delta R.T. 0.01 min

Lab File: VX017495.D

Acq: 23 Jul 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW180D-GW-20200720

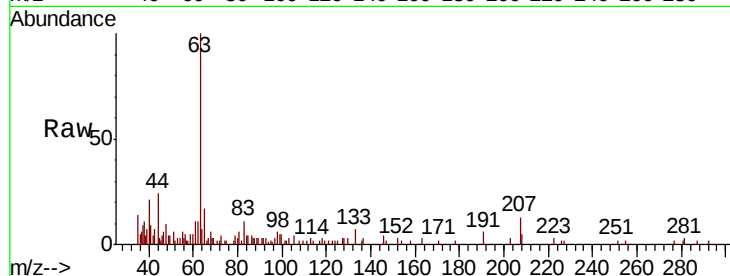
Tot Ion: 63 Resp: 7159

Ion Ratio Lower Upper

63 100

98 3.0 3.4 10.1#

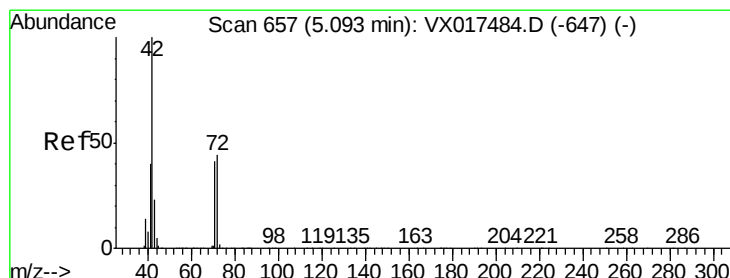
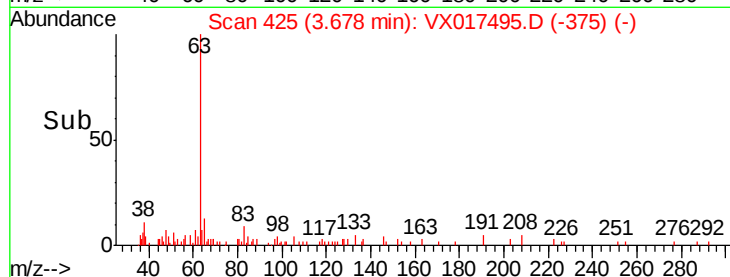
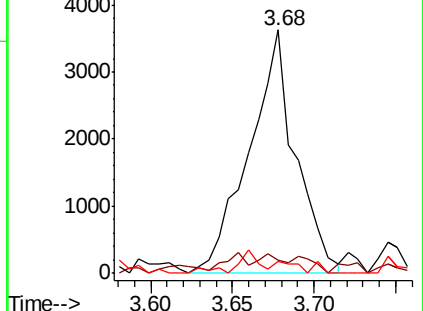
100 5.0 1.9 5.7



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#29

Tetrahydrofuran

Concen: 0.202 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX017495.D

Acq: 23 Jul 2020 16:22

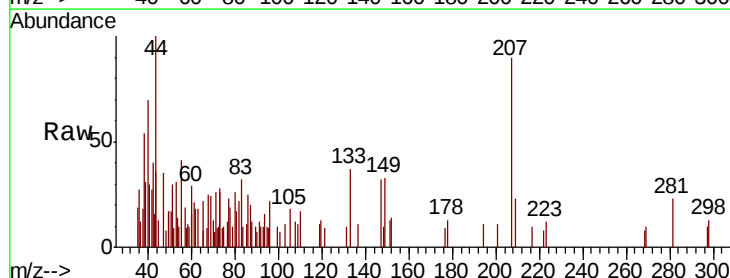
Tgt Ion: 42 Resp: 507

Ion Ratio Lower Upper

42 100

72 42.0 35.5 53.3

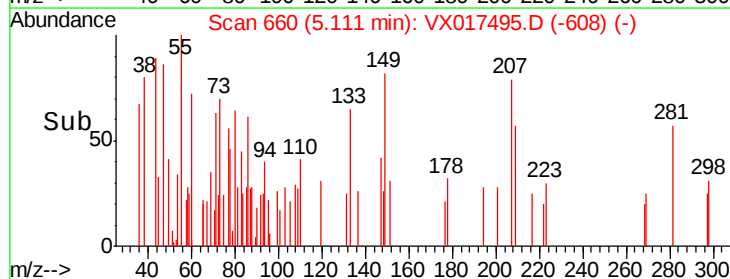
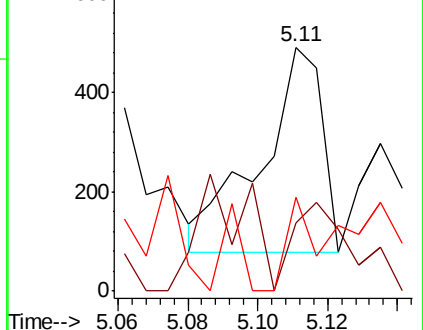
71 18.7 33.0 49.4#

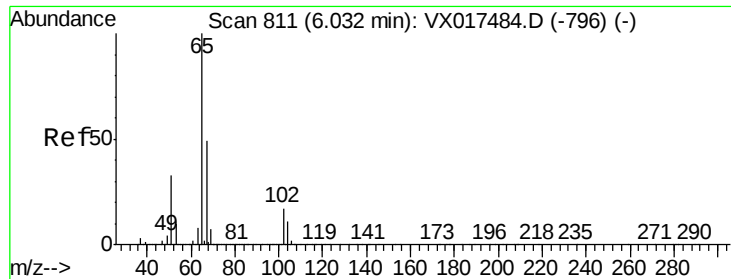


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 56.036 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017495.D

Acq: 23 Jul 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

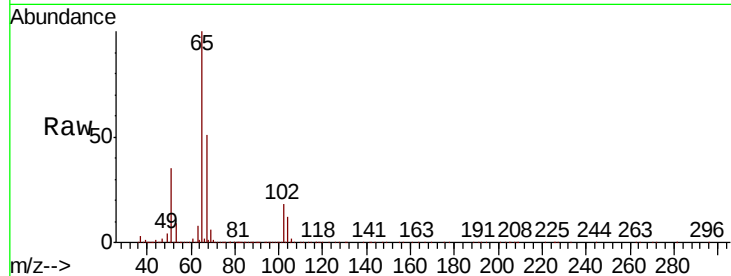
BP-TT-MW180D-GW-20200720

Tot Ion: 65 Resp: 362499

Ion Ratio Lower Upper

65 100

67 50.7 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

150000

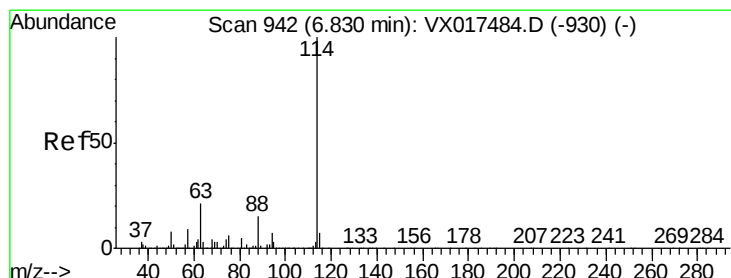
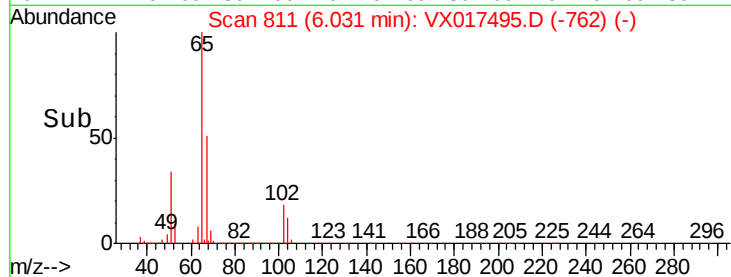
100000

50000

0

Time-->

5.90 6.00 6.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017495.D

Acq: 23 Jul 2020 16:22

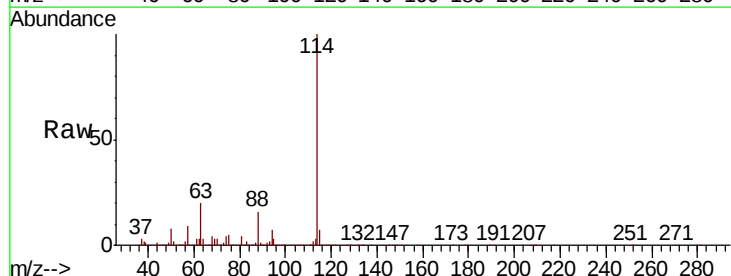
Tgt Ion: 114 Resp: 908925

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.6

88 15.7 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

500000

400000

300000

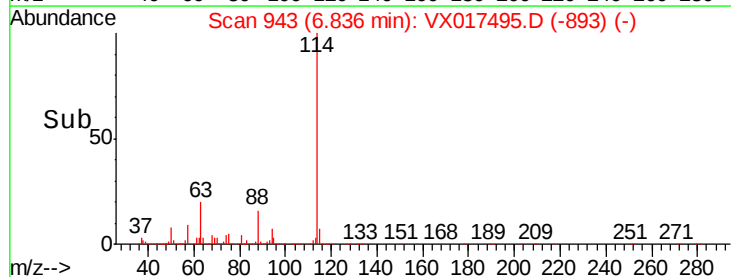
200000

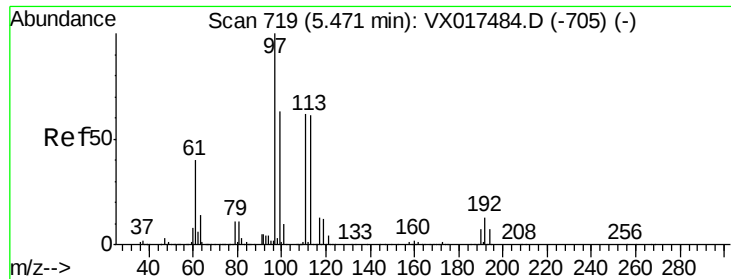
100000

0

Time-->

6.70 6.80 6.90 7.00

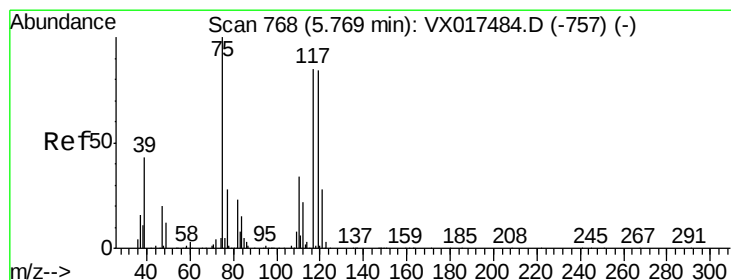
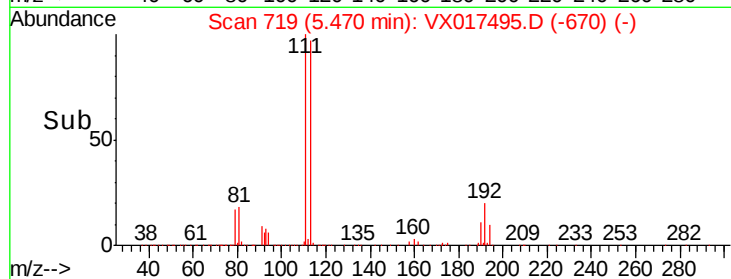
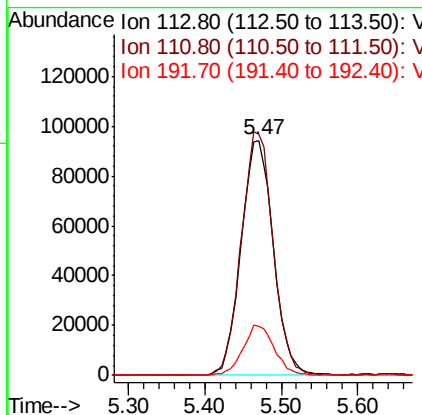
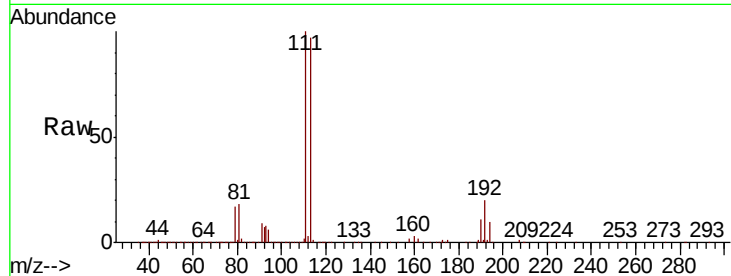




#35
 Dibromofluoromethane
 Concen: 45.432 ug/l
 RT: 5.47 min Scan# 719
 Delta R.T. -0.00 min
 Lab File: VX017495.D
 Acq: 23 Jul 2020 16:22

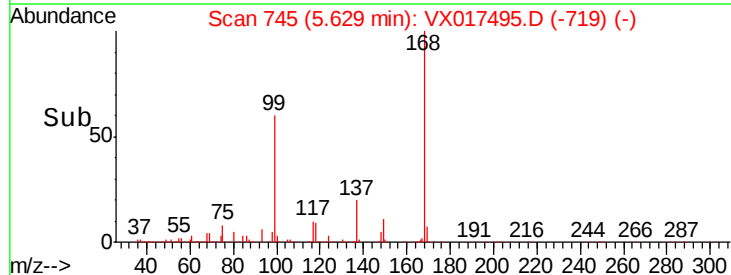
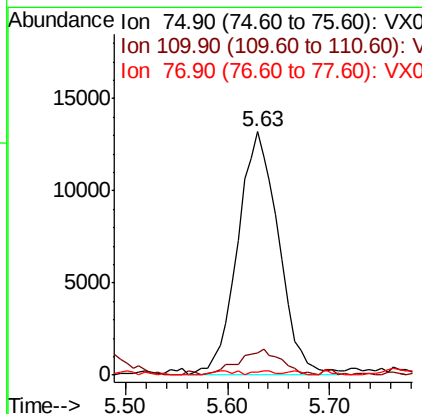
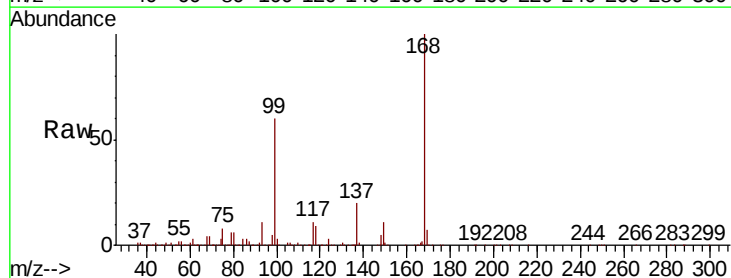
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-MW180D-GW-20200720

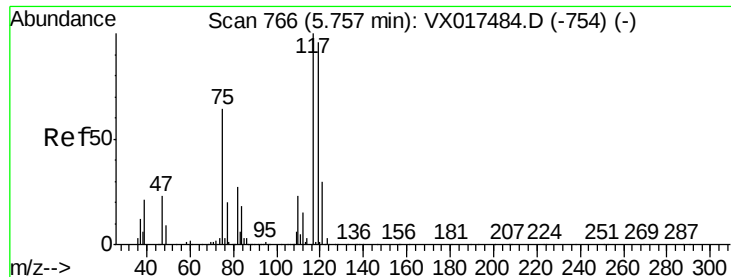
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.1	80.7	121.1
192	20.8	16.9	25.3



#36
 1,1-Dichloropropene
 Concen: 4.238 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX017495.D
 Acq: 23 Jul 2020 16:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.3	18.1	54.3#
77	1.0	24.6	37.0#

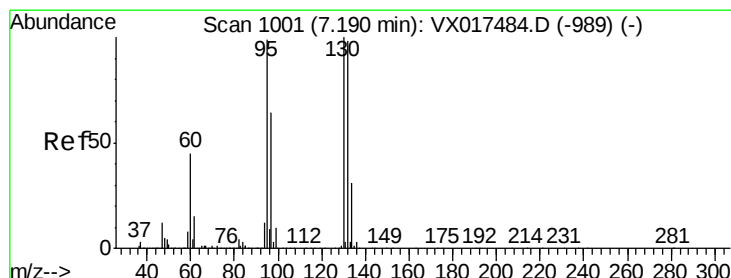
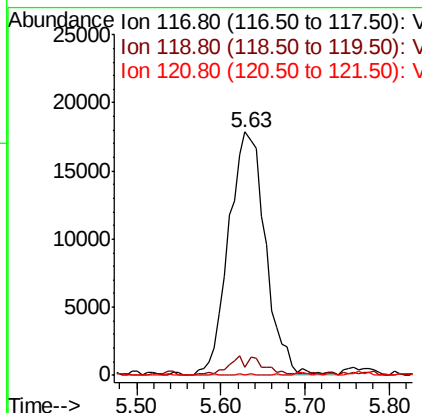
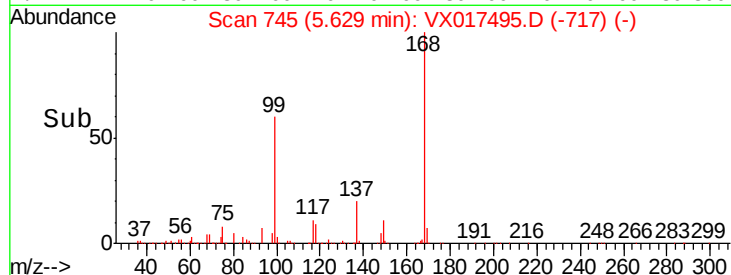
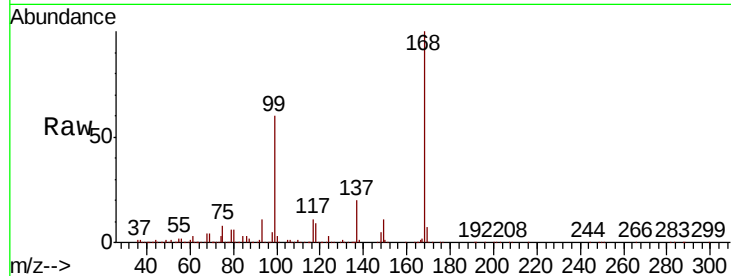




#38
Carbon Tetrachloride
Concen: 4.991 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.13 min
Lab File: VX017495.D
Acq: 23 Jul 2020 16:22

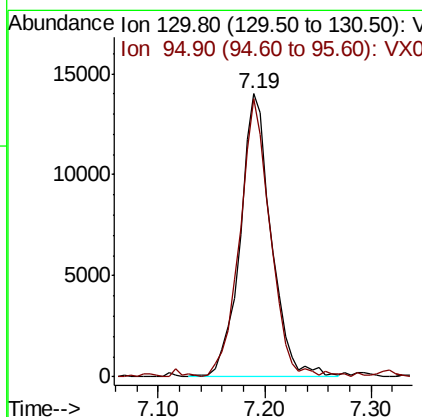
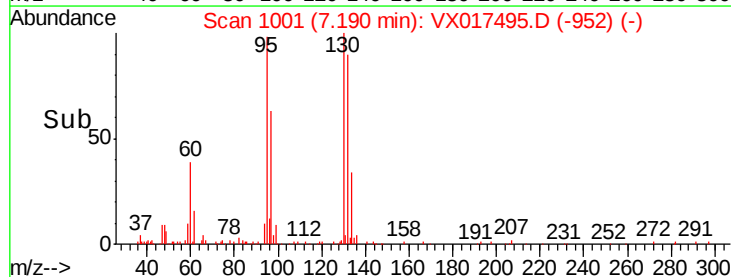
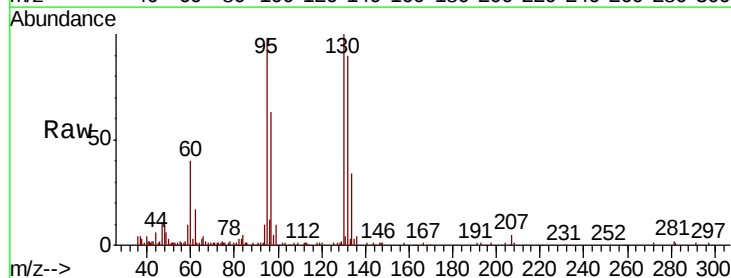
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-MW180D-GW-20200720

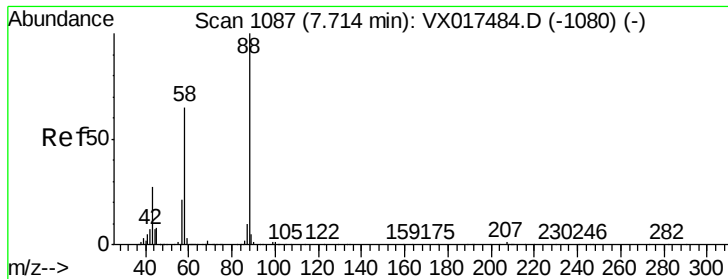
Tot Ion:117 Resp: 52837
Ion Ratio Lower Upper
117 100
119 3.4 75.4 113.0#
121 0.4 24.3 36.5#



#44
Trichloroethene
Concen: 3.918 ug/l
RT: 7.19 min Scan# 1001
Delta R.T. -0.00 min
Lab File: VX017495.D
Acq: 23 Jul 2020 16:22

Tgt Ion:130 Resp: 28613
Ion Ratio Lower Upper
130 100
95 97.4 0.0 189.0





#49

1,4-Dioxane

Concen: 5.509 ug/l

RT: 7.74 min Scan# 1092

Delta R.T. 0.03 min

Lab File: VX017495.D

Acq: 23 Jul 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW180D-GW-20200720

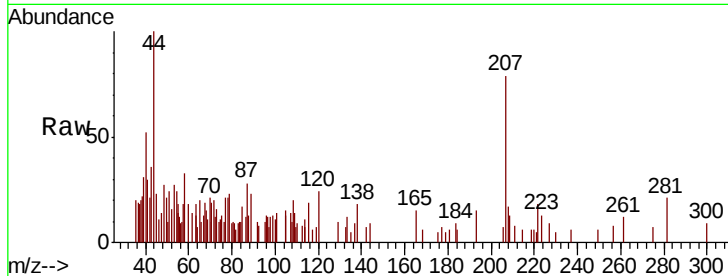
Tot Ion: 88 Resp: 824

Ion Ratio Lower Upper

88 100

43 68.6 27.8 41.6#

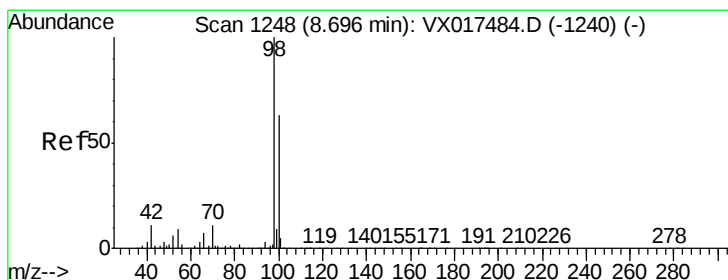
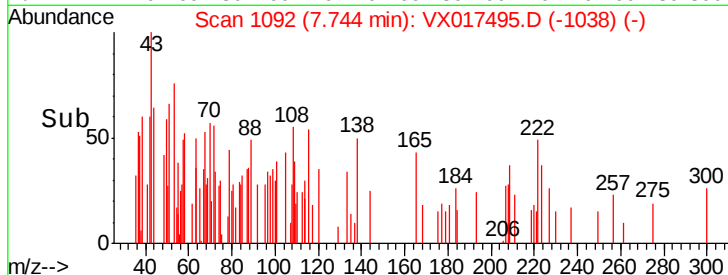
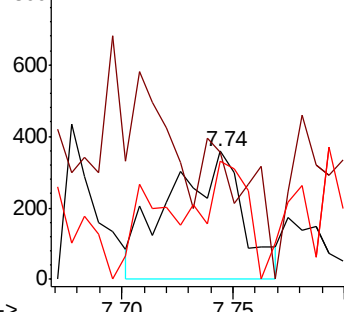
58 55.6 58.3 87.5#



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: 51.267 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017495.D

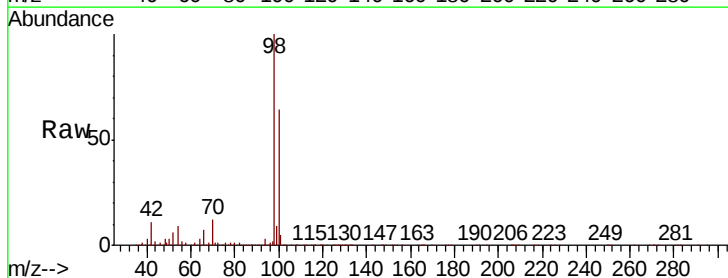
Acq: 23 Jul 2020 16:22

Tgt Ion: 98 Resp: 1124269

Ion Ratio Lower Upper

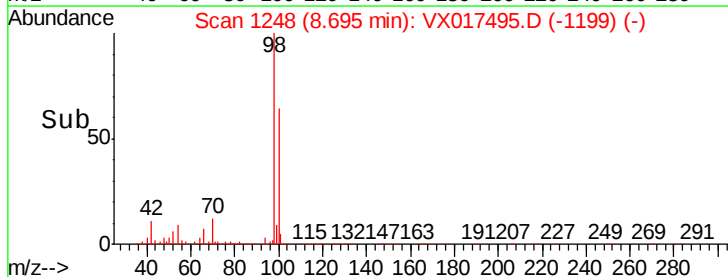
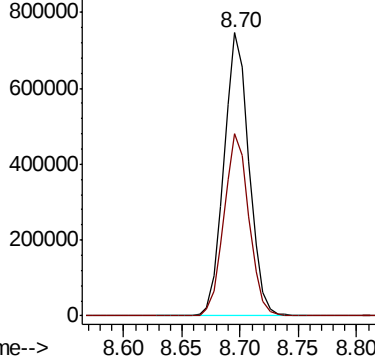
98 100

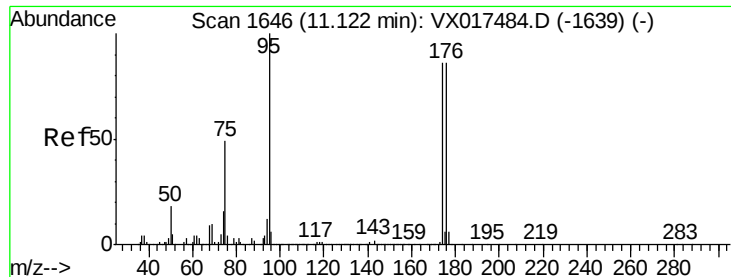
100 64.4 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 55.352 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017495.D

Acq: 23 Jul 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW180D-GW-20200720

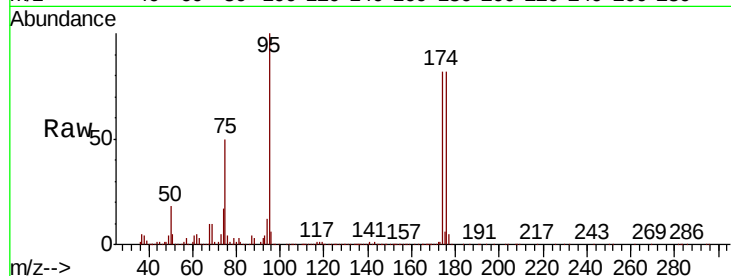
Tot Ion: 95 Resp: 485782

Ion Ratio Lower Upper

95 100

174 82.5 0.0 169.0

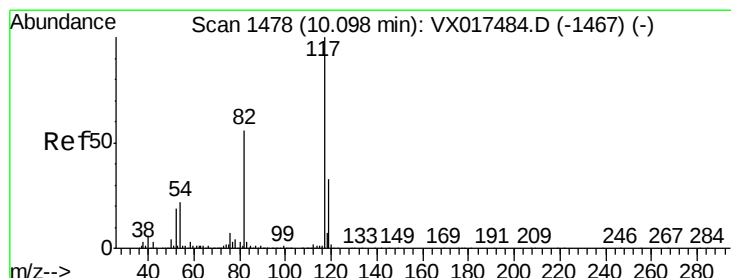
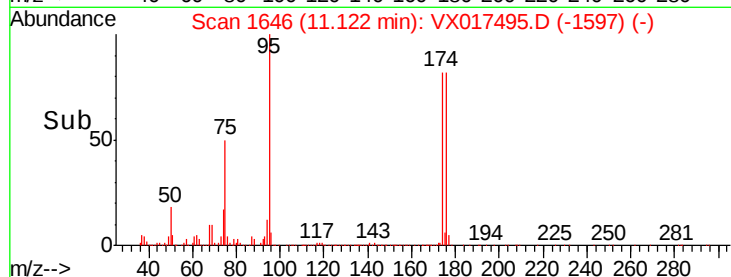
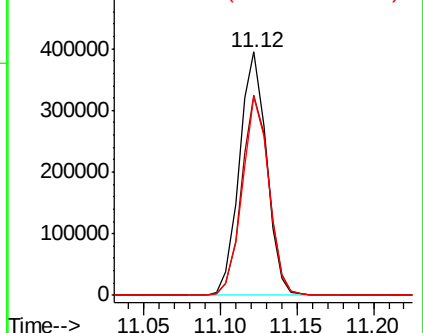
176 79.9 0.0 161.0



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: VX017495.D

Acq: 23 Jul 2020 16:22

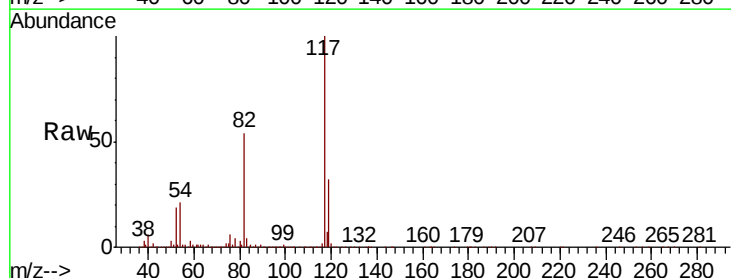
Tgt Ion: 117 Resp: 946340

Ion Ratio Lower Upper

117 100

82 53.6 44.0 66.0

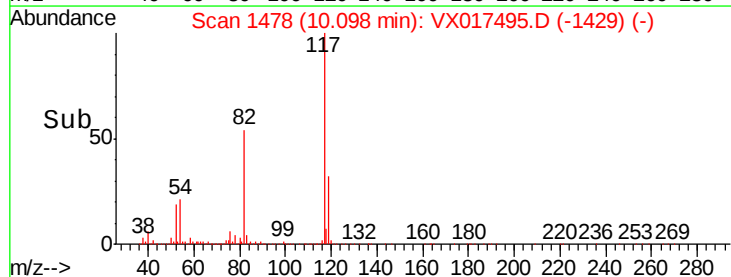
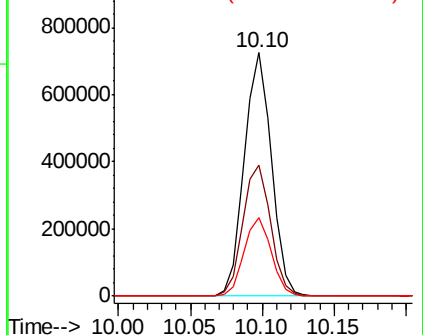
119 32.3 25.4 38.0

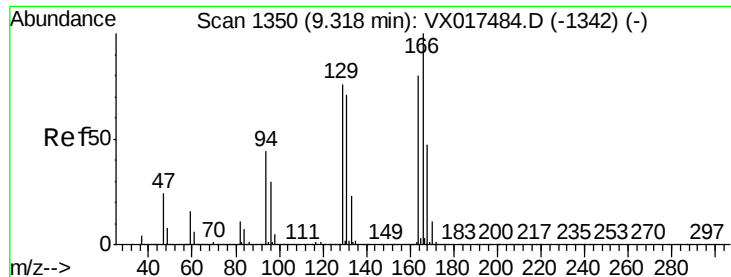


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.309 ug/l

RT: 9.32 min Scan# 1351

Delta R.T. 0.01 min

Lab File: VX017495.D

Acq: 23 Jul 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW180D-GW-20200720

Tot Ion:164 Resp: 2623

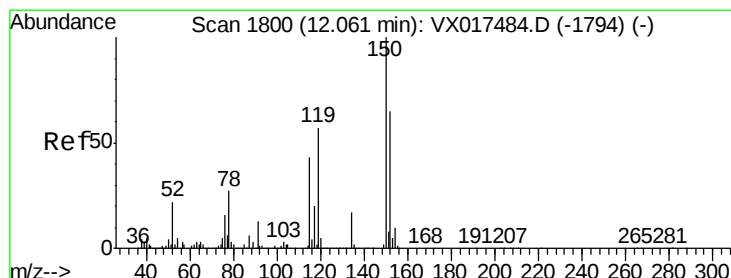
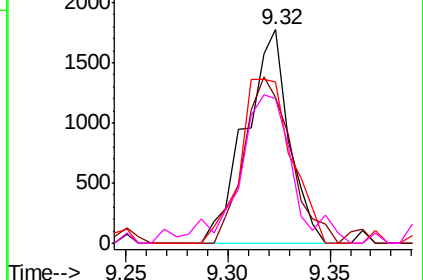
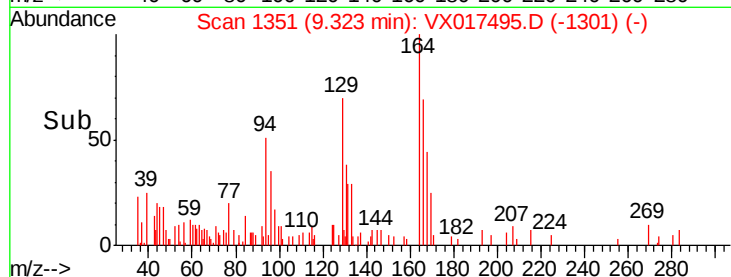
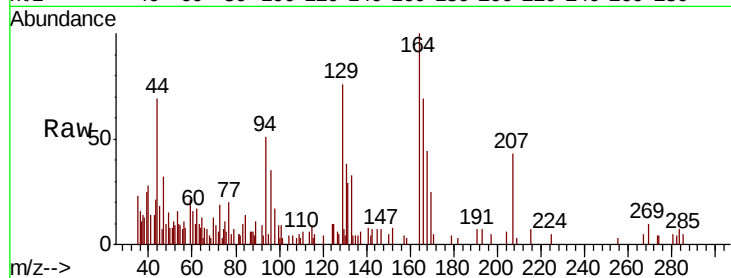
Ion Ratio Lower Upper

164 100

166 68.6 100.6 150.8#

129 75.8 75.0 112.6

131 63.5 75.2 112.8#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017495.D

Acq: 23 Jul 2020 16:22

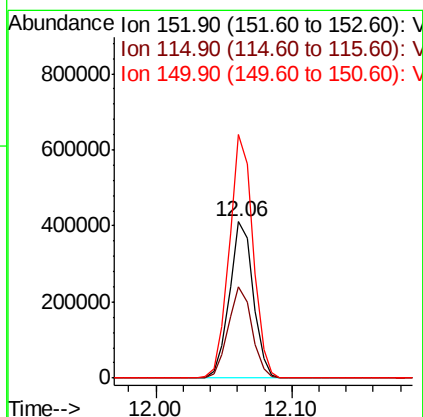
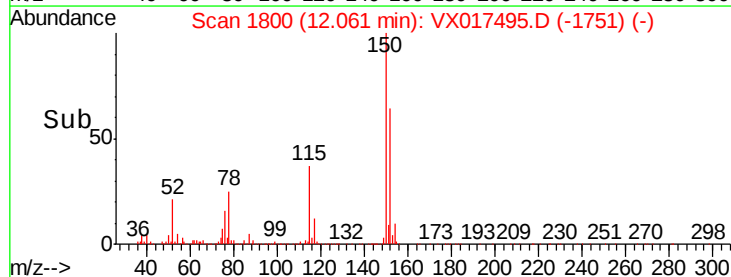
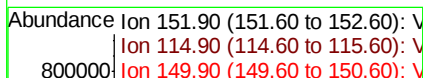
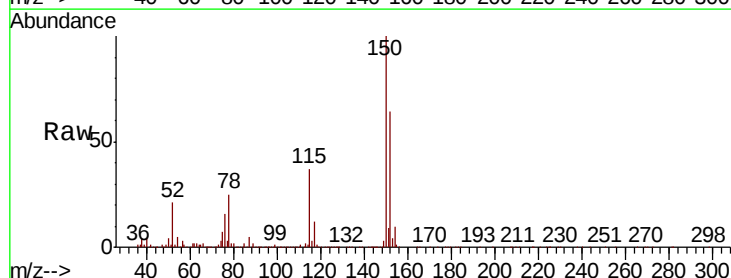
Tgt Ion:152 Resp: 498914

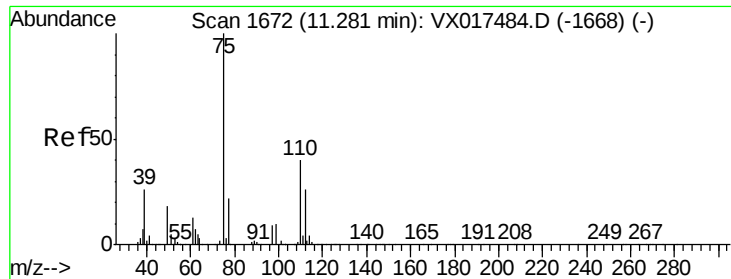
Ion Ratio Lower Upper

152 100

115 58.2 65.5 196.6#

150 155.6 0.0 412.6





#76

1,2,3-Trichloropropane

Concen: 23.751 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017495.D

Acq: 23 Jul 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

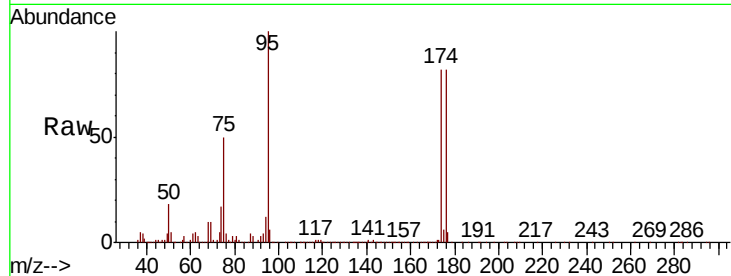
BP-TT-MW180D-GW-20200720

Tot Ion: 75 Resp: 243751

Ion Ratio Lower Upper

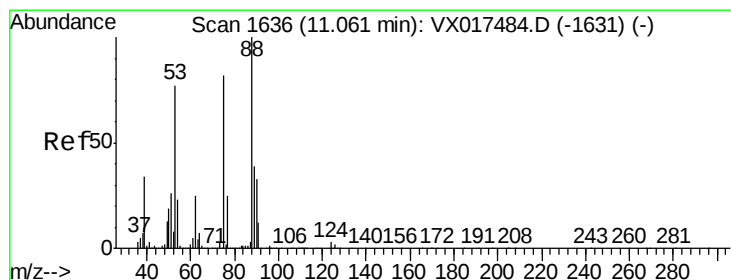
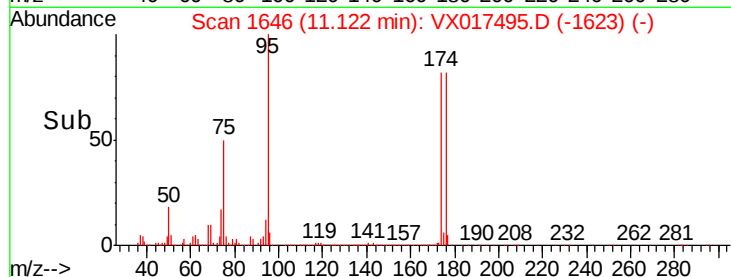
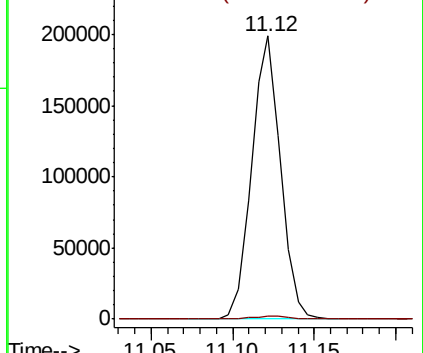
75 100

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



#81

trans-1,4-Dichloro-2-butene

Concen: 59.847 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017495.D

Acq: 23 Jul 2020 16:22

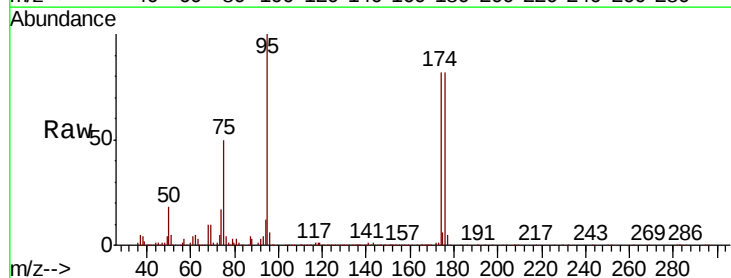
Tgt Ion: 75 Resp: 243751

Ion Ratio Lower Upper

75 100

53 0.2 75.9 113.9#

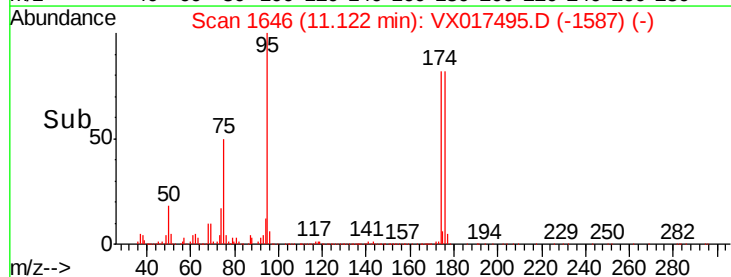
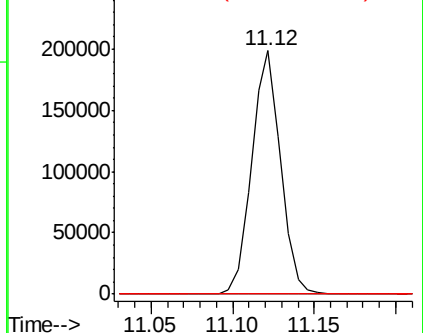
89 0.0 37.8 56.6#

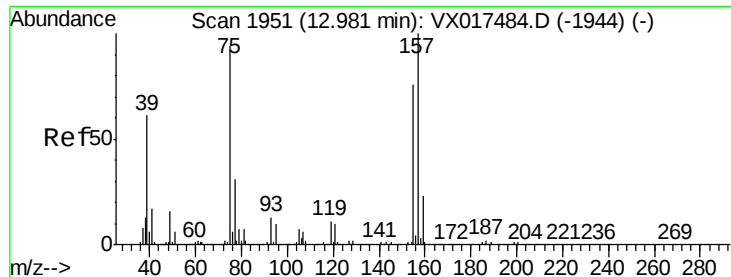


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.655 ug/l

RT: 12.98 min Scan# 1951

Delta R.T. 0.00 min

Lab File: VX017495.D

Acq: 23 Jul 2020 16:22

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW180D-GW-20200720

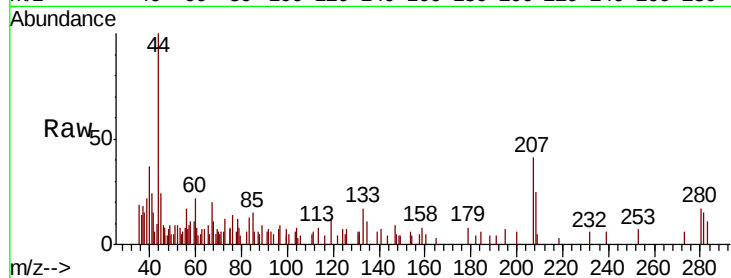
Tot Ion: 75 Resp: 250

Ion Ratio Lower Upper

75 100

155 22.4 42.3 126.8#

157 0.0 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

