

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102720\
 Data File : VX019146.D
 Acq On : 27 Oct 2020 19:03
 Operator : JC/MD
 Sample : L4470-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-MW179D1-GW-20201019

Quant Time: Oct 28 02:30:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	323746	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	558314	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	532848	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	274333	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	210419	50.40	ug/l	0.00
Spiked Amount			Recovery	=	100.80%	
35) Dibromofluoromethane	5.46	113	170728	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	
50) Toluene-d8	8.70	98	684882	51.81	ug/l	0.00
Spiked Amount			Recovery	=	103.62%	
62) 4-Bromofluorobenzene	11.12	95	268274	53.58	ug/l	0.00
Spiked Amount			Recovery	=	107.16%	

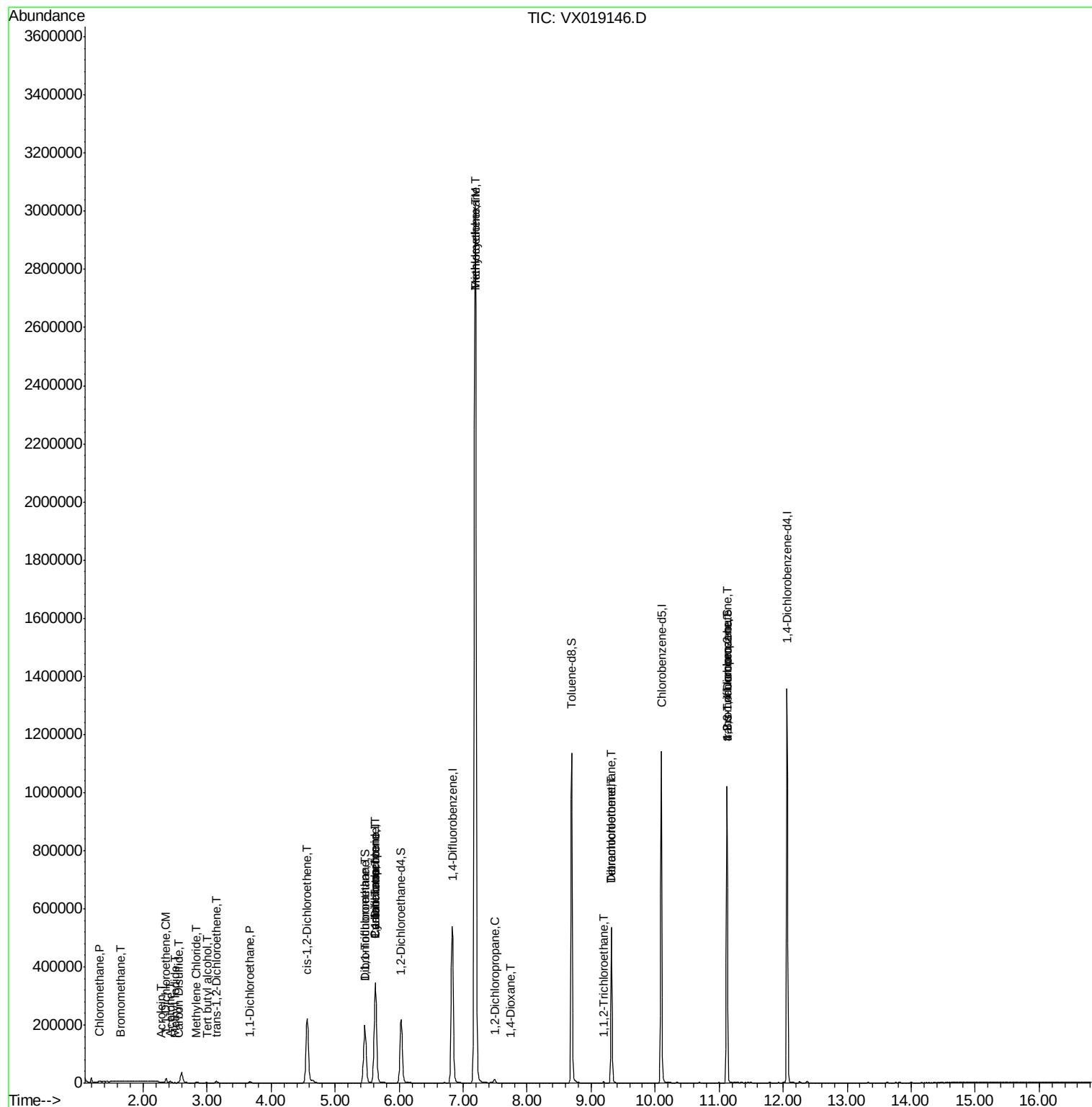
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1593	0.528	ug/l	96
5) Bromomethane	1.64	94	481	0.201	ug/l	99
10) Methyl Iodide	2.49	142	259	6.441	ug/l #	76
11) Tert butyl alcohol	3.00	59	727	0.882	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	5291	1.686	ug/l	99
13) Acrolein	2.28	56	113	5.947	ug/l #	4
16) Acetone	2.42	43	5422	3.764	ug/l	99
17) Carbon Disulfide	2.55	76	1481	0.923	ug/l #	90
20) Methylene Chloride	2.83	84	917	0.254	ug/l	93
21) trans-1,2-Dichloroethene	3.14	96	1999	0.554	ug/l	96
24) 1,1-Dichloroethane	3.67	63	4231	0.715	ug/l #	91
27) cis-1,2-Dichloroethene	4.56	96	145025	35.938	ug/l	90
31) Cyclohexane	5.62	56	7047	1.335	ug/l #	1
32) 1,1,1-Trichloroethane	5.47	97	2639	0.462	ug/l #	48
36) 1,1-Dichloropropene	5.62	75	25038	4.856	ug/l #	49
38) Carbon Tetrachloride	5.63	117	33317	6.340	ug/l #	17
39) Methylcyclohexane	7.19	83	13852	2.247	ug/l #	1
44) Trichloroethene	7.19	130	1172152	279.989	ug/l	96
45) 1,2-Dichloropropane	7.49	63	4505	1.258	ug/l	93
49) 1,4-Dioxane	7.73	88	84	0.979	ug/l #	27
55) 1,1,2-Trichloroethane	9.20	97	876	0.235	ug/l	92
60) Dibromochloromethane	9.32	129	96173	23.823	ug/l #	11
64) Tetrachloroethene	9.32	164	99557	24.523	ug/l	97
76) 1,2,3-Trichloropropane	11.12	75	136514	24.100	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	136514	63.456	ug/l #	12

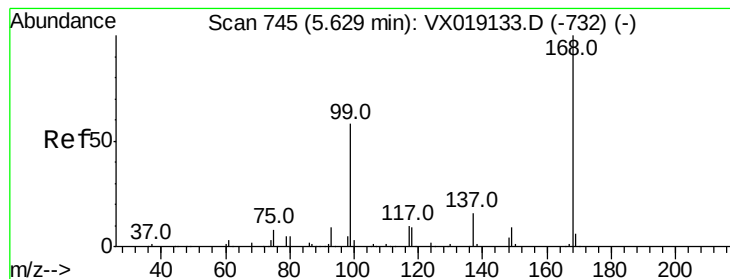
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

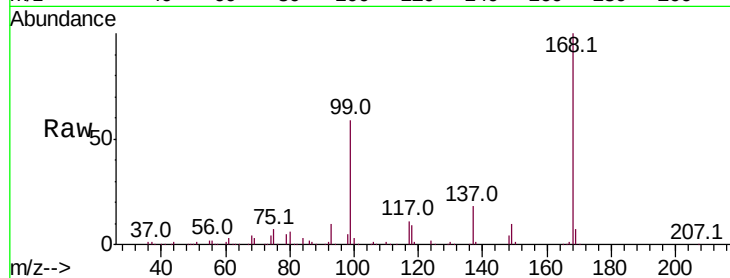
BP-TT-MW179D1-GW-20201019

Tot Ion:168 Resp: 323746

Ion Ratio Lower Upper

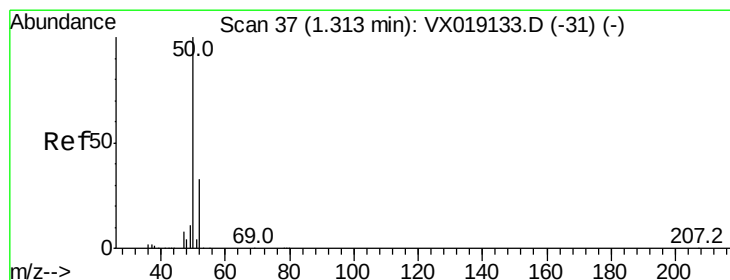
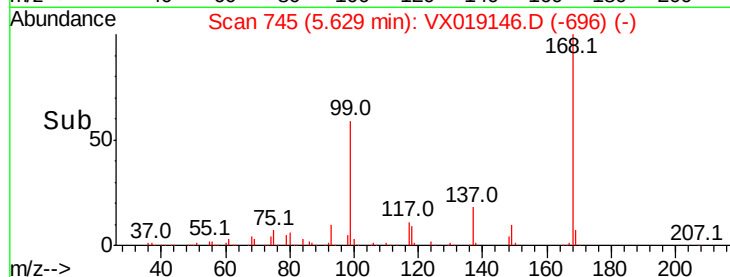
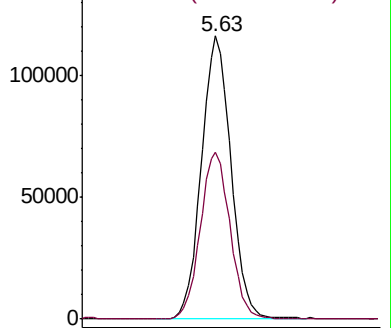
168 100

99 59.2 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.528 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019146.D

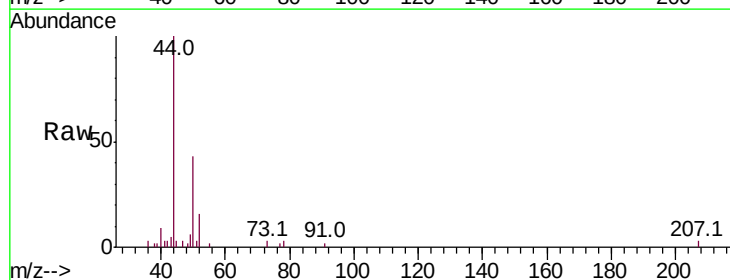
Acq: 27 Oct 2020 19:03

Tgt Ion: 50 Resp: 1593

Ion Ratio Lower Upper

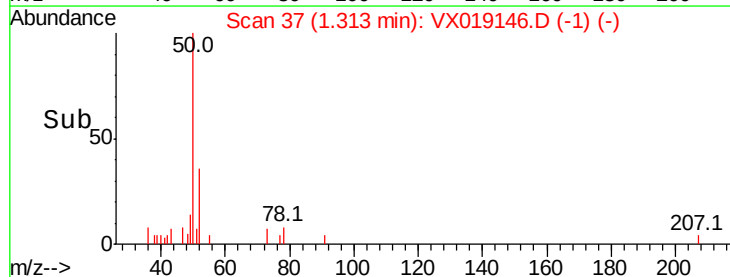
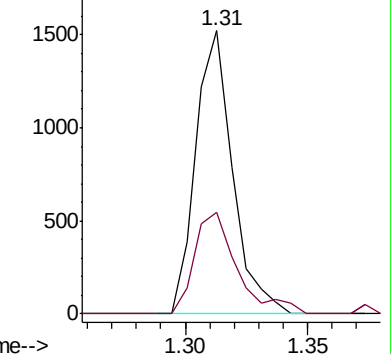
50 100

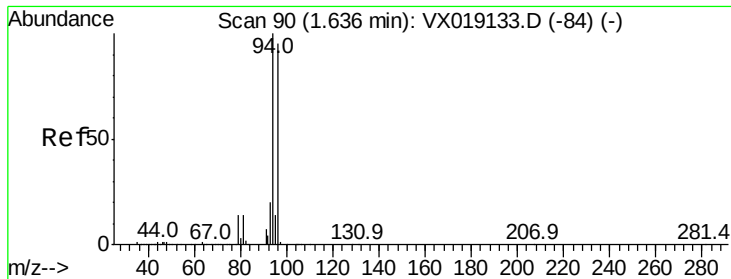
52 35.7 26.8 40.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.201 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.01 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

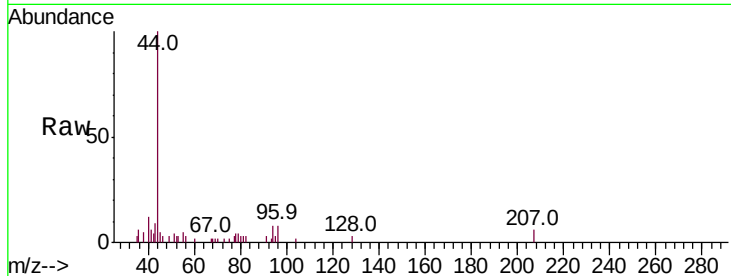
BP-TT-MW179D1-GW-20201019

Tot Ion: 94 Resp: 481

Ion Ratio Lower Upper

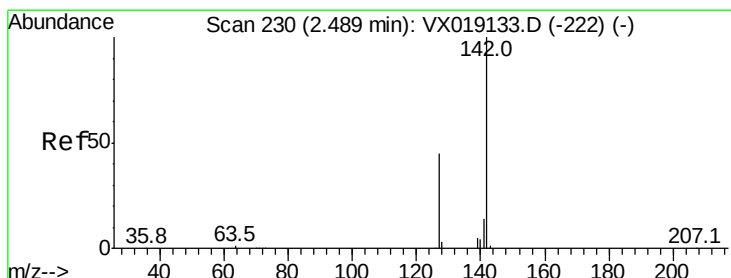
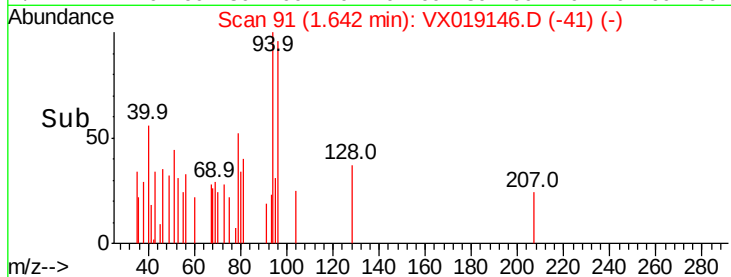
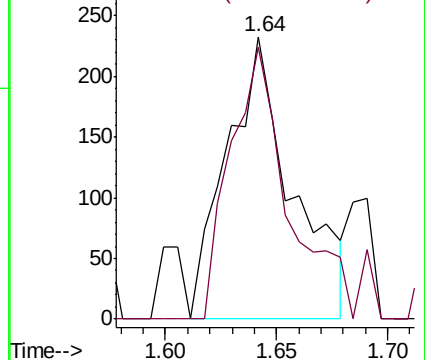
94 100

96 96.1 76.0 114.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#10

Methyl Iodide

Concen: 6.441 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

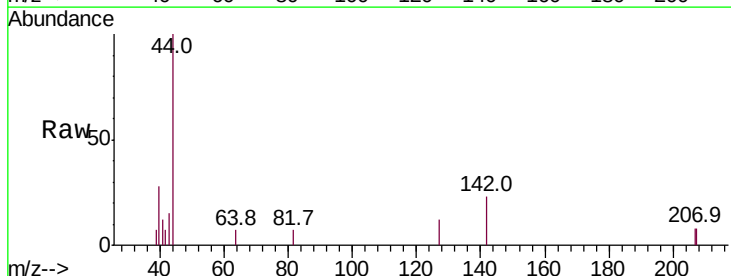
Tgt Ion: 142 Resp: 259

Ion Ratio Lower Upper

142 100

127 31.7 36.1 54.1#

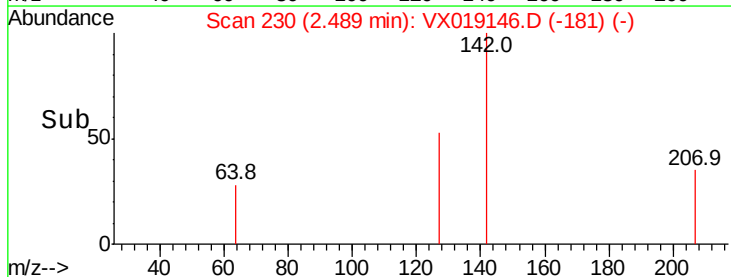
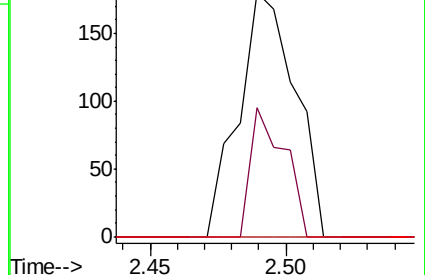
141 0.0 11.3 16.9#

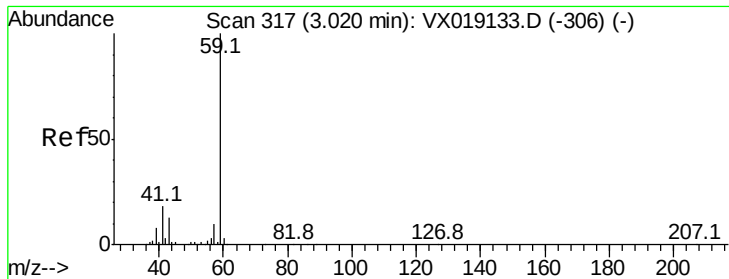


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



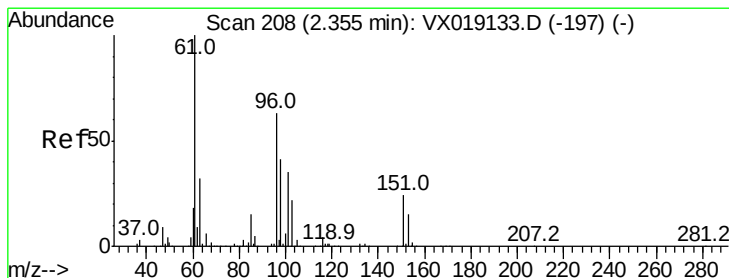
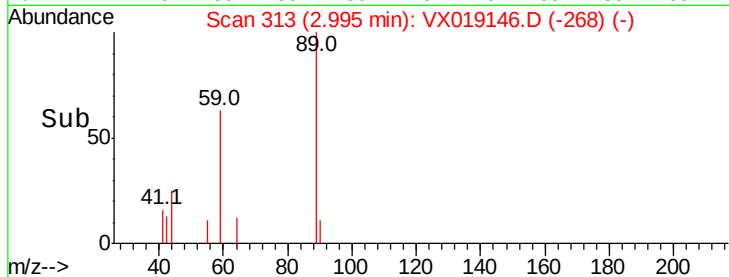
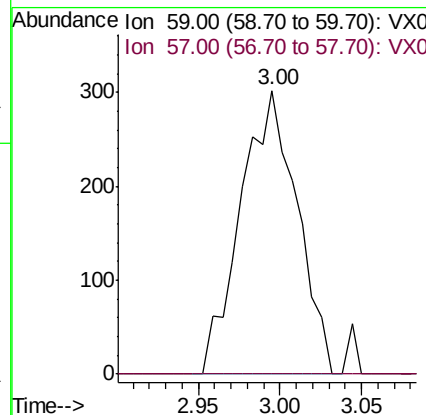
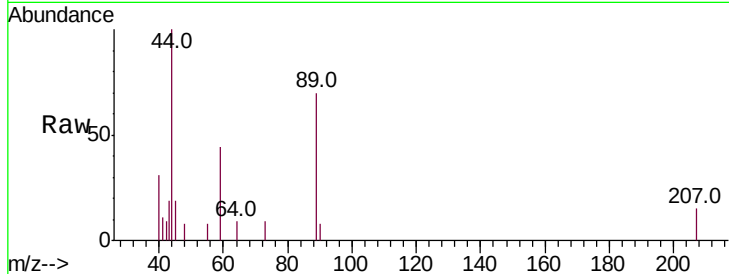


#11

Tert butyl alcohol
Concen: 0.882 ug/l
RT: 3.00 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX019146.D
Acq: 27 Oct 2020 19:03

Instrument :
MSVOA_X
ClientSampleId :
BP-TT-MW179D1-GW-20201019

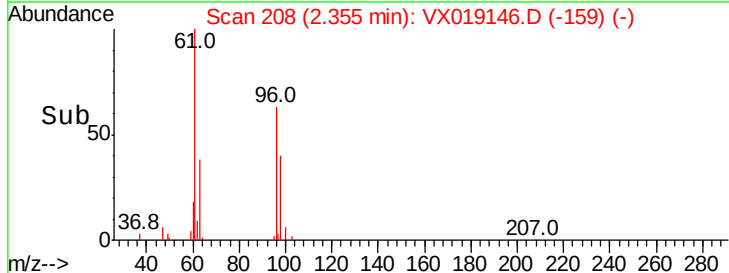
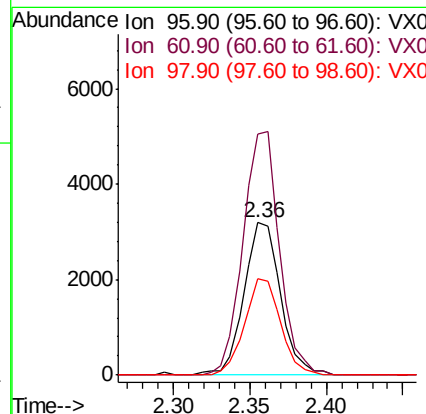
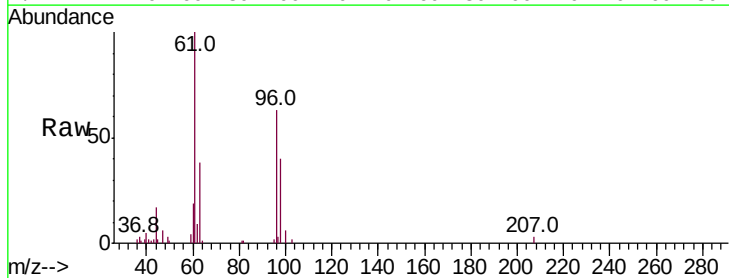
Tot Ion: 59 Resp: 727
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#

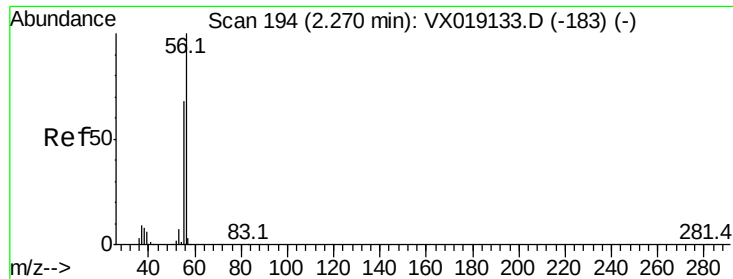


#12

1,1-Dichloroethene
Concen: 1.686 ug/l
RT: 2.36 min Scan# 208
Delta R.T. -0.00 min
Lab File: VX019146.D
Acq: 27 Oct 2020 19:03

Tgt Ion: 96 Resp: 5291
Ion Ratio Lower Upper
96 100
61 158.0 127.7 191.5
98 63.5 52.1 78.1





#13

Acrolein

Concen: 5.947 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

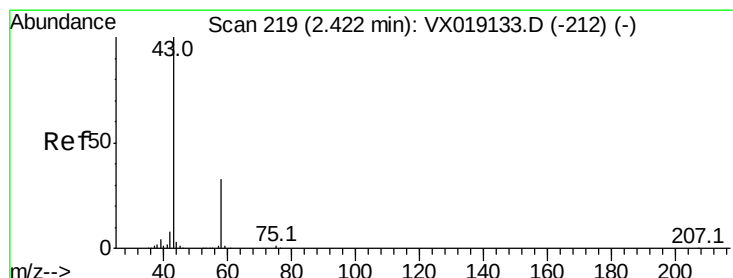
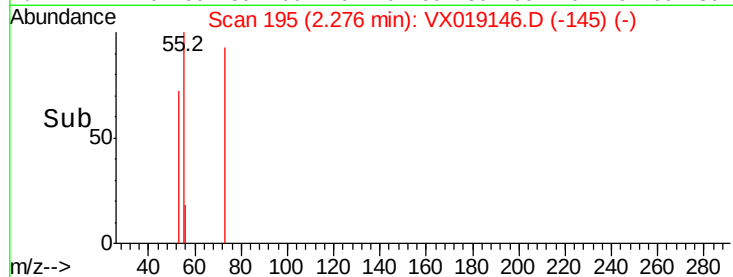
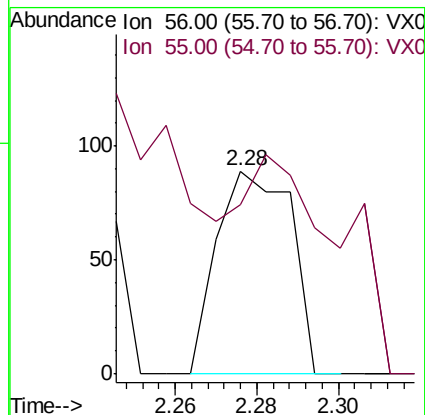
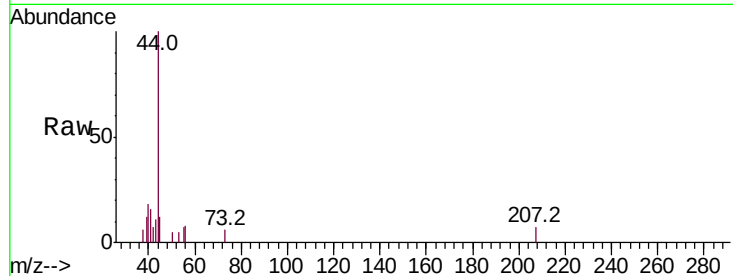
BP-TT-MW179D1-GW-20201019

Tot Ion: 56 Resp: 113

Ion Ratio Lower Upper

56 100

55 146.0 54.7 82.1#



#16

Acetone

Concen: 3.764 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX019146.D

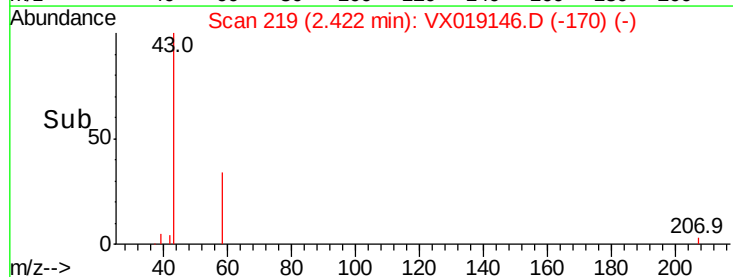
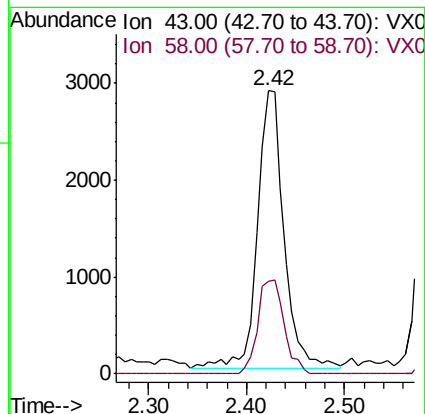
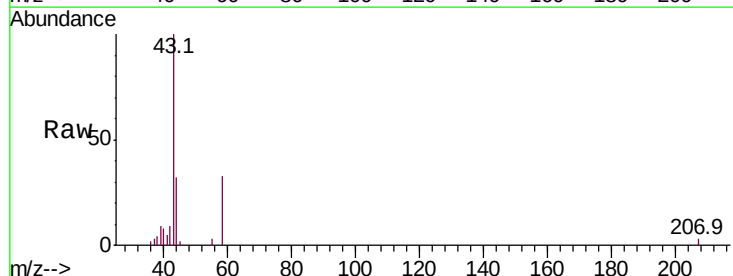
Acq: 27 Oct 2020 19:03

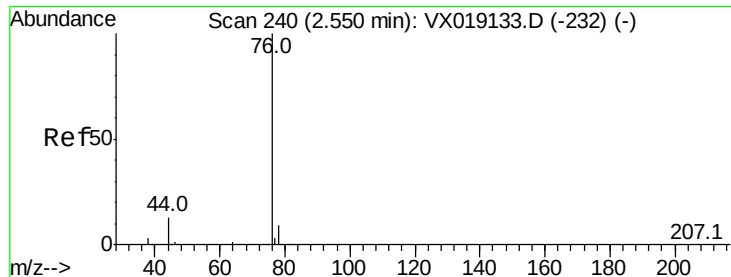
Tgt Ion: 43 Resp: 5422

Ion Ratio Lower Upper

43 100

58 33.2 26.3 39.5





#17

Carbon Disulfide

Concen: 0.923 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

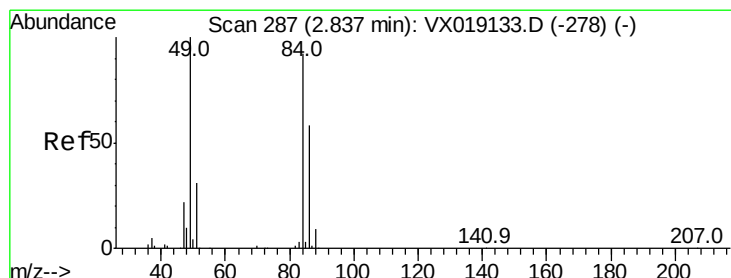
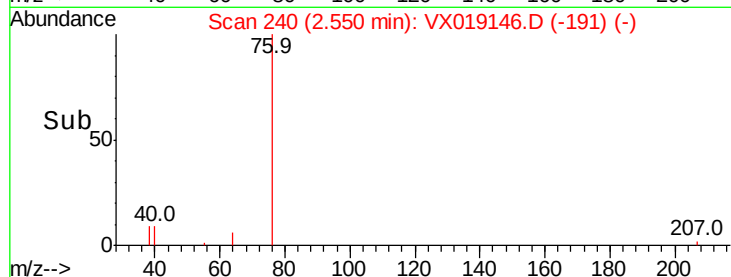
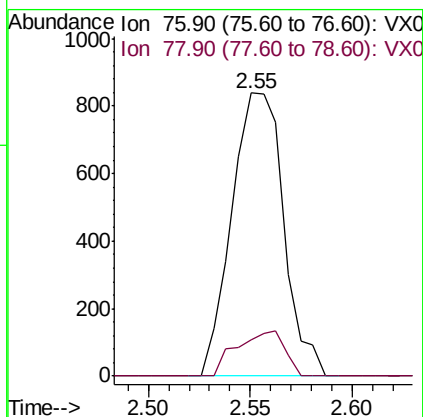
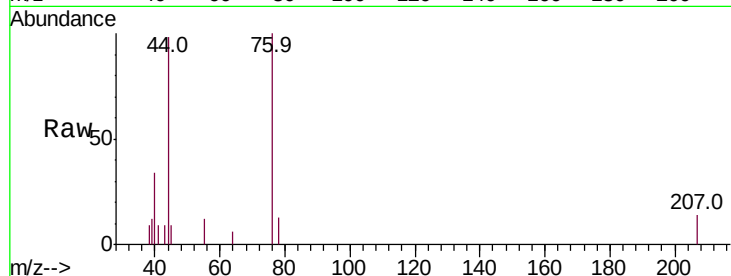
BP-TT-MW179D1-GW-20201019

Tot Ion: 76 Resp: 1481

Ion Ratio Lower Upper

76 100

78 12.8 7.3 10.9#



#20

Methylene Chloride

Concen: 0.254 ug/l

RT: 2.83 min Scan# 286

Delta R.T. -0.01 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

Tgt Ion: 84 Resp: 917

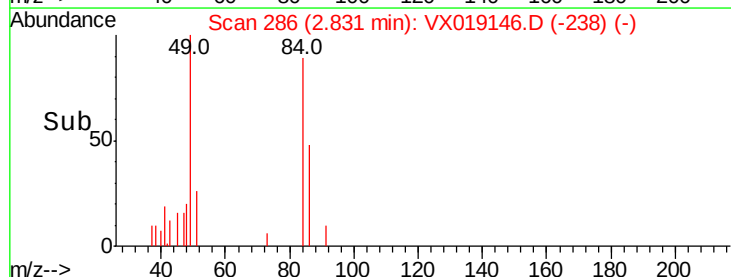
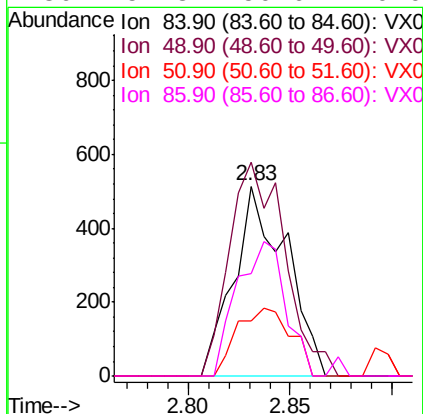
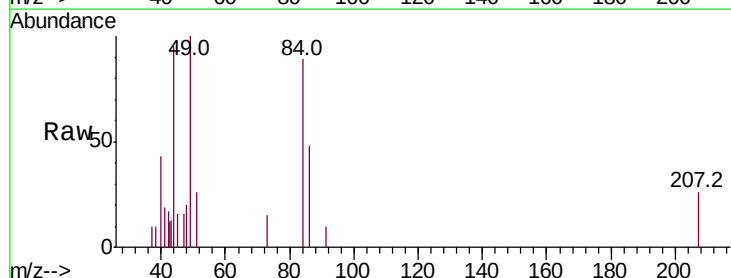
Ion Ratio Lower Upper

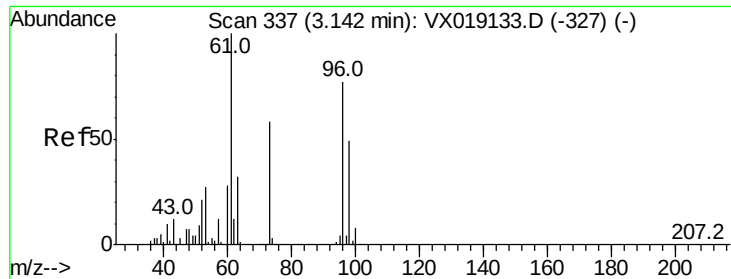
84 100

49 112.5 86.8 130.2

51 29.0 27.3 40.9

86 54.3 50.6 76.0

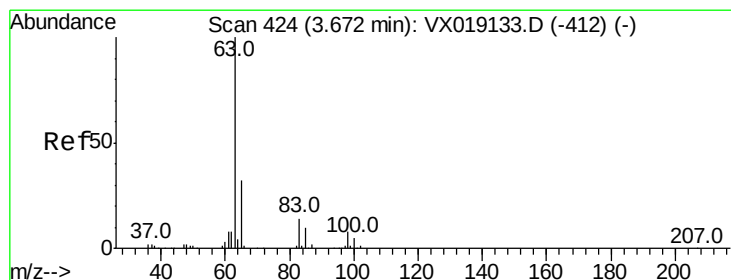
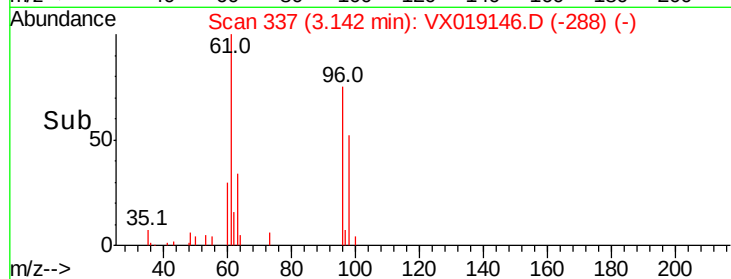
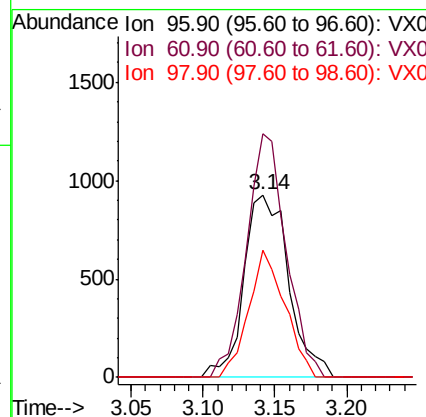
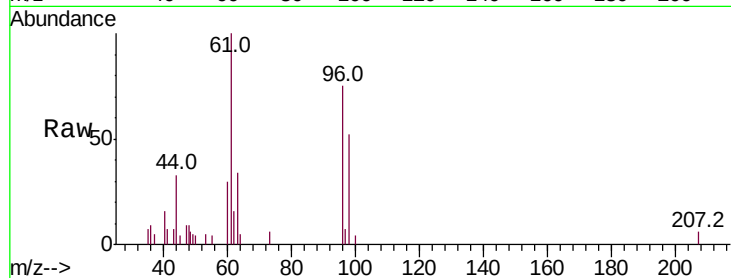




#21
trans-1,2-Dichloroethene
Concen: 0.554 ug/l
RT: 3.14 min Scan# 337
Delta R.T. -0.00 min
Lab File: VX019146.D
Acq: 27 Oct 2020 19:03

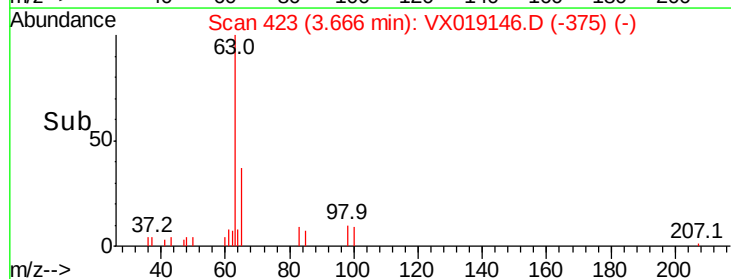
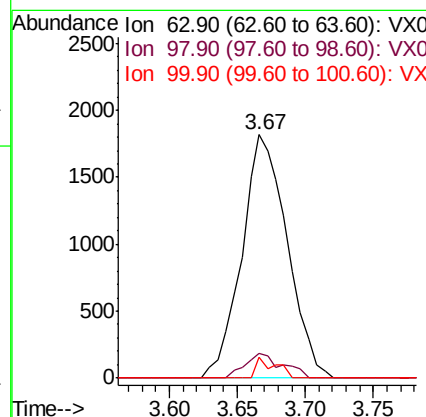
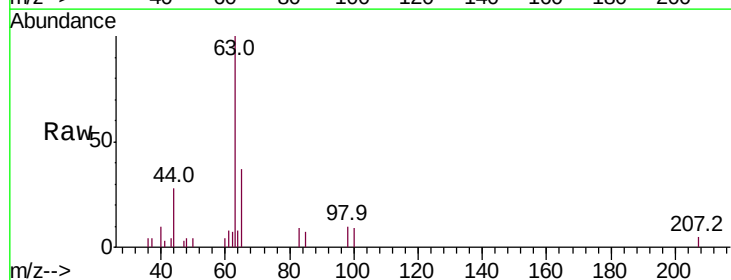
Instrument :
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BP-TT-MW179D1-GW-20201019

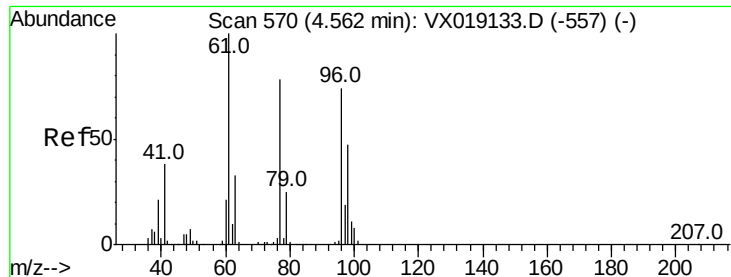
Tot Ion: 96 Resp: 1999
Ion Ratio Lower Upper
96 100
61 133.5 104.2 156.4
98 69.7 51.3 76.9



#24
1,1-Dichloroethane
Concen: 0.715 ug/l
RT: 3.67 min Scan# 423
Delta R.T. -0.01 min
Lab File: VX019146.D
Acq: 27 Oct 2020 19:03

Tgt Ion: 63 Resp: 4231
Ion Ratio Lower Upper
63 100
98 10.0 3.8 11.4
100 8.5 2.4 7.2#





#27

cis-1,2-Dichloroethene

Concen: 35.938 ug/l

RT: 4.56 min Scan# 570

Delta R.T. -0.00 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW179D1-GW-20201019

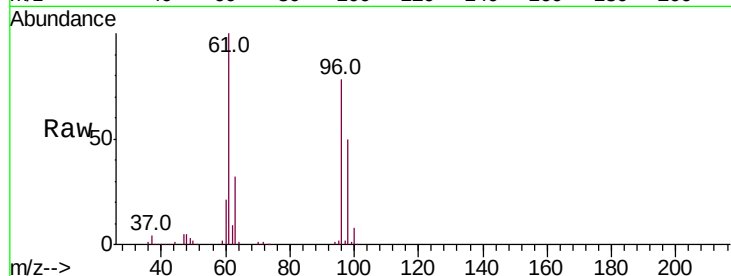
Tot Ion: 96 Resp: 145025

Ion Ratio Lower Upper

96 100

61 122.9 0.0 278.8

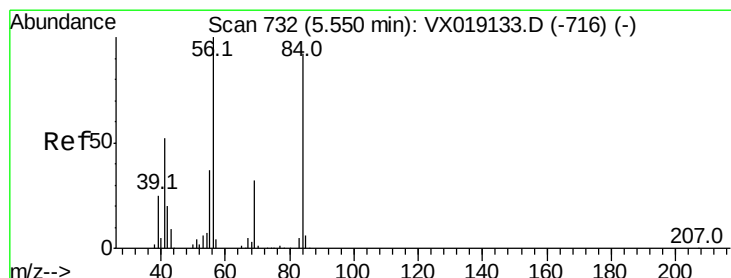
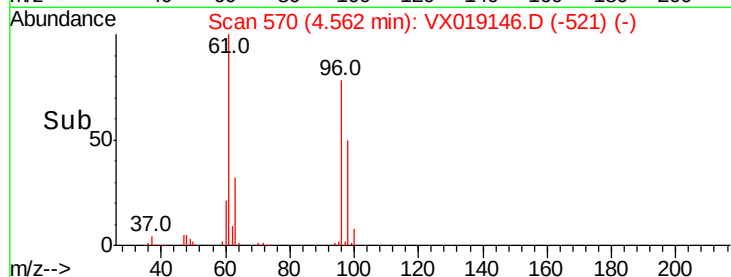
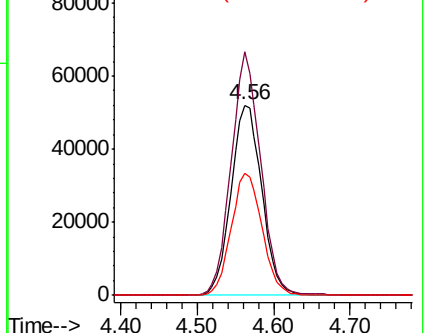
98 64.5 0.0 130.2



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



#31

Cyclohexane

Concen: 1.335 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.07 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

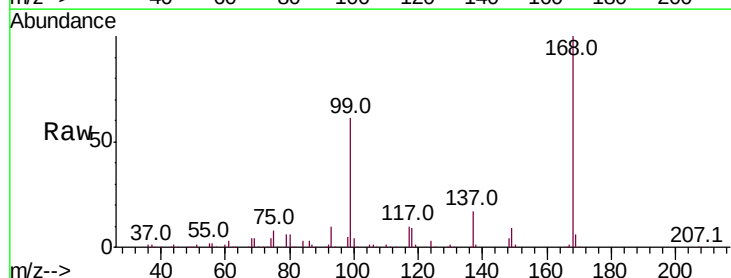
Tgt Ion: 56 Resp: 7047

Ion Ratio Lower Upper

56 100

69 192.2 25.9 38.9#

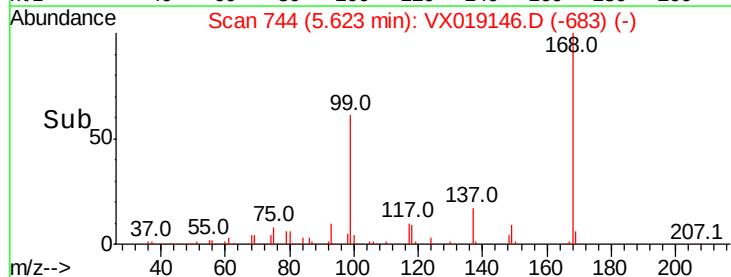
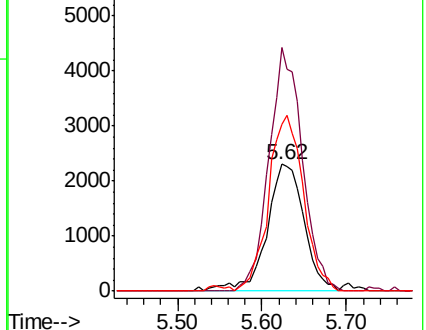
84 132.0 73.4 110.2#

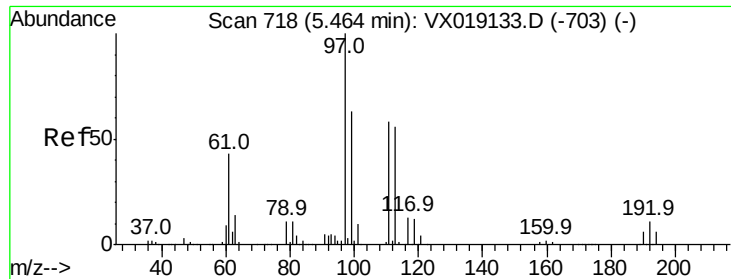


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#32

1,1,1-Trichloroethane

Concen: 0.462 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW179D1-GW-20201019

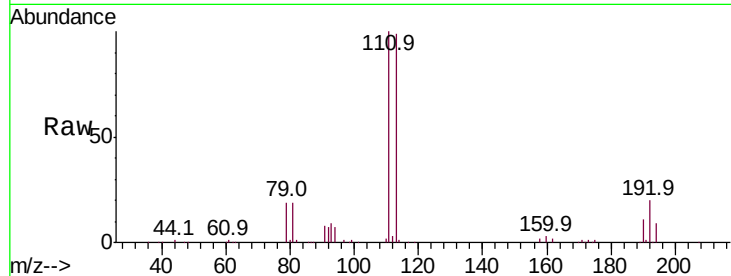
Tot Ion: 97 Resp: 2639

Ion Ratio Lower Upper

97 100

99 0.0 51.7 77.5#

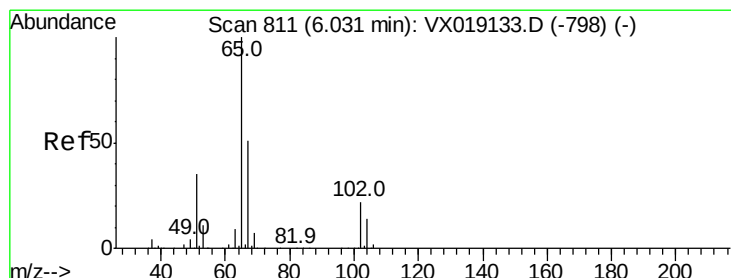
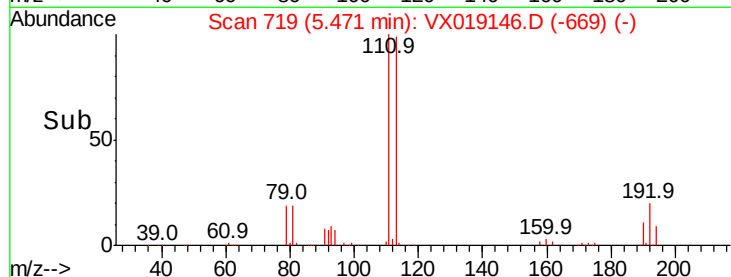
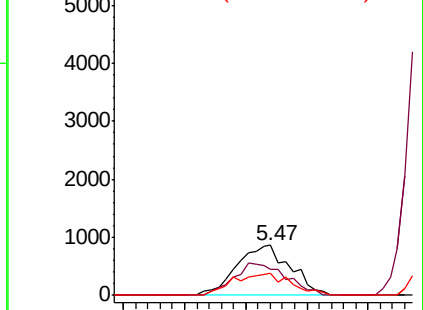
61 47.0 34.2 51.2



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.399 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019146.D

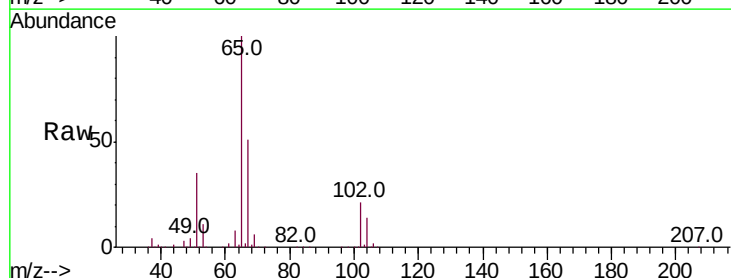
Acq: 27 Oct 2020 19:03

Tgt Ion: 65 Resp: 210419

Ion Ratio Lower Upper

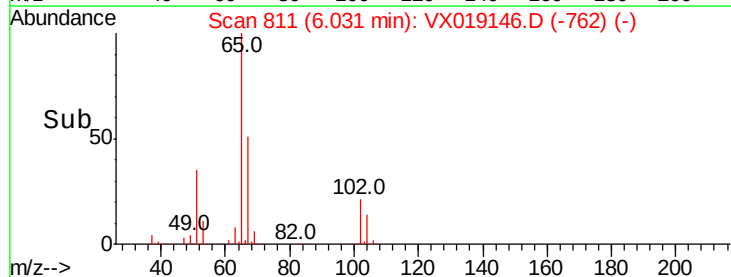
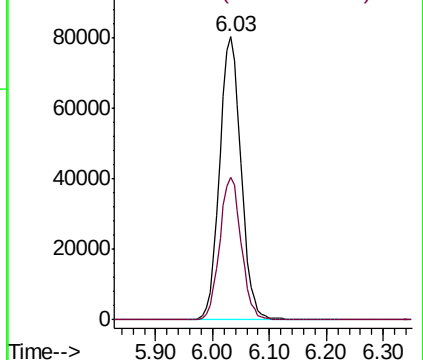
65 100

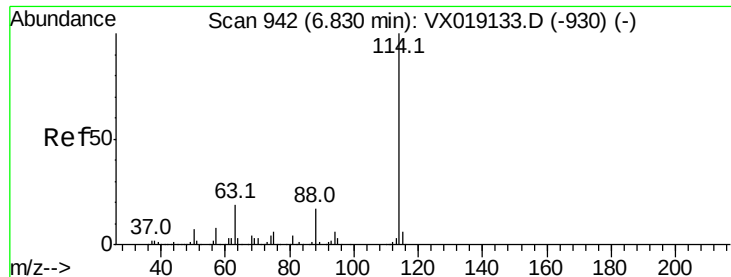
67 50.6 0.0 103.0



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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW179D1-GW-20201019

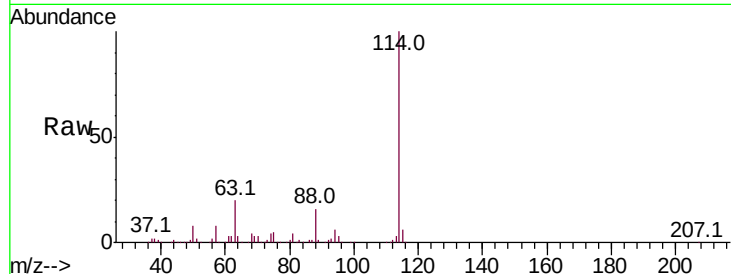
Tot Ion:114 Resp: 558314

Ion Ratio Lower Upper

114 100

63 19.8 0.0 38.8

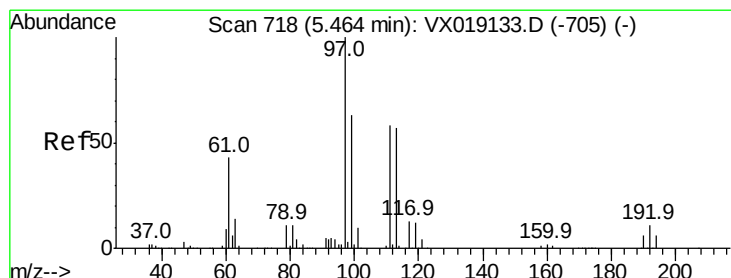
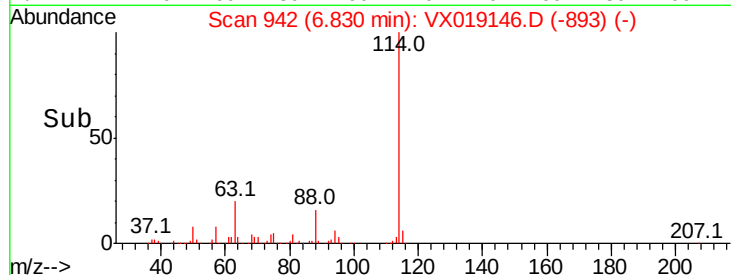
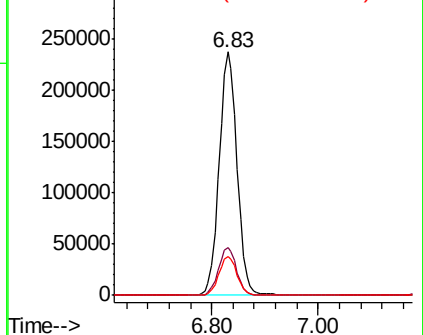
88 15.9 0.0 34.2



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: 48.682 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

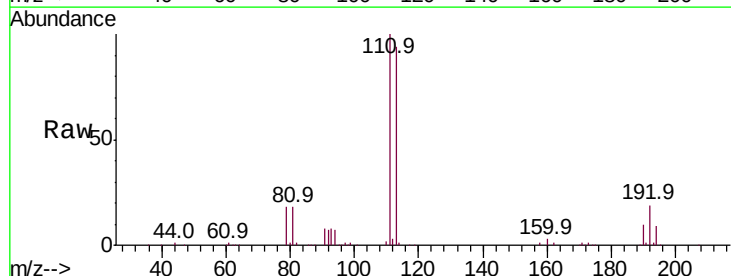
Tgt Ion:113 Resp: 170728

Ion Ratio Lower Upper

113 100

111 102.1 82.3 123.5

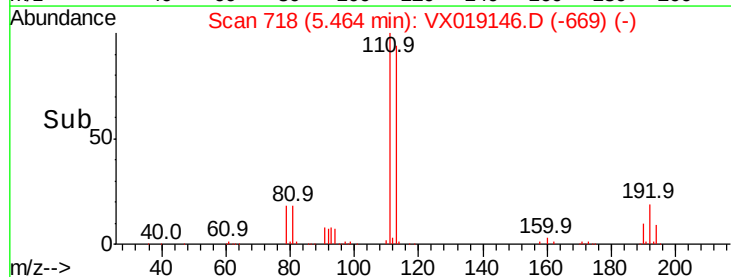
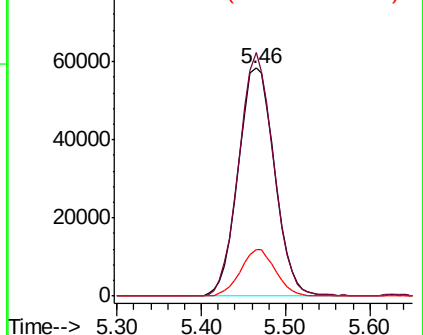
192 19.6 16.2 24.2

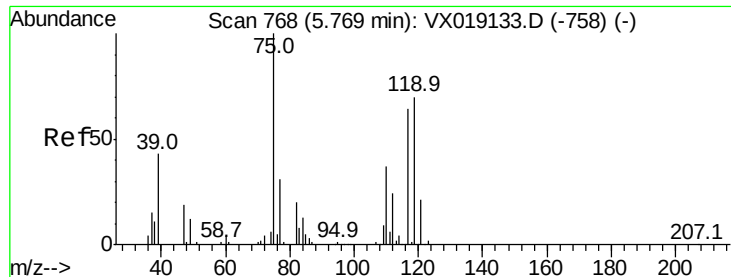


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.856 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.15 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW179D1-GW-20201019

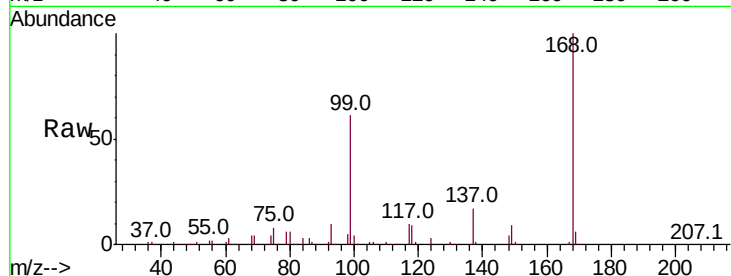
Tot Ion: 75 Resp: 25038

Ion Ratio Lower Upper

75 100

110 9.4 18.3 54.9#

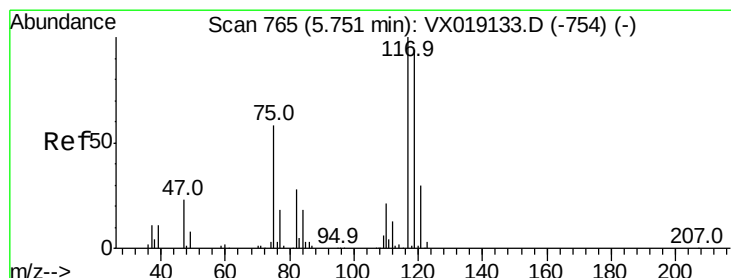
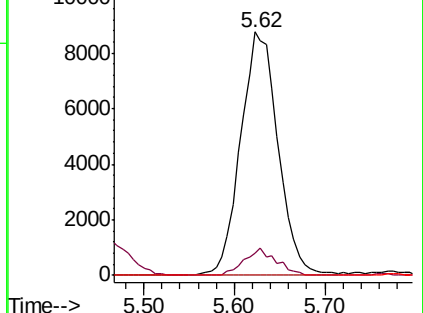
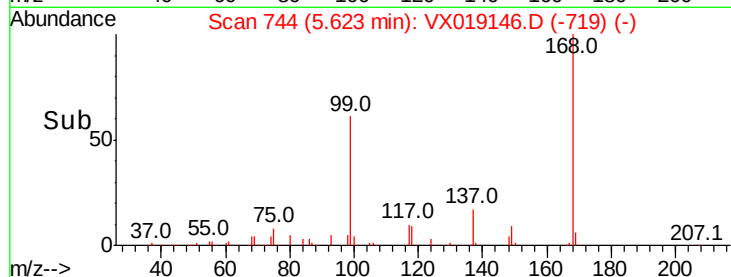
77 0.0 24.9 37.3#



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: 6.340 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

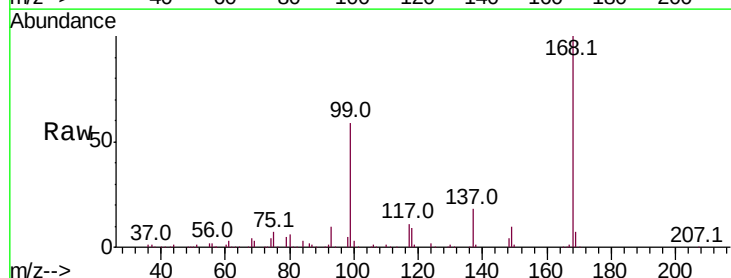
Tgt Ion: 117 Resp: 33317

Ion Ratio Lower Upper

117 100

119 5.0 75.0 112.6#

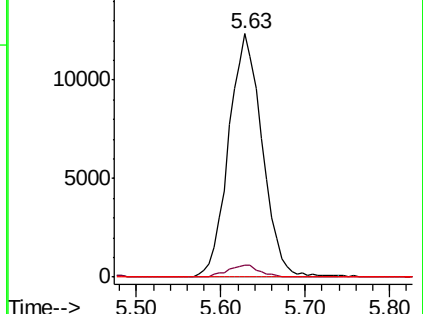
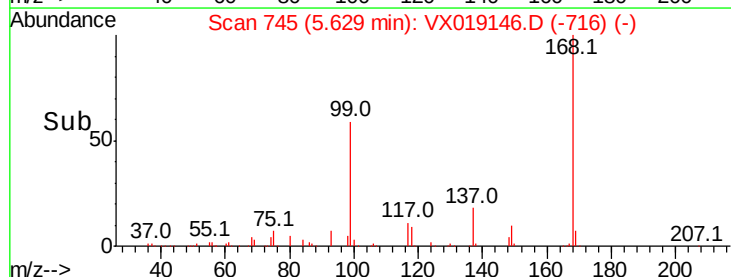
121 0.0 23.9 35.9#

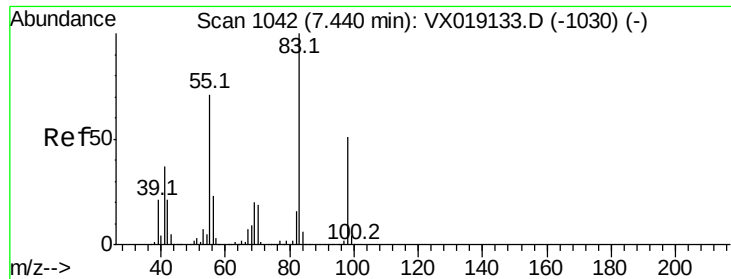


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

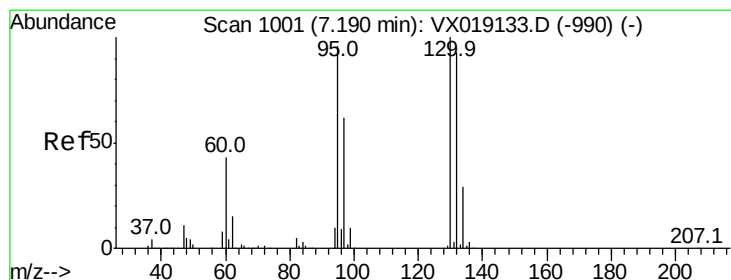
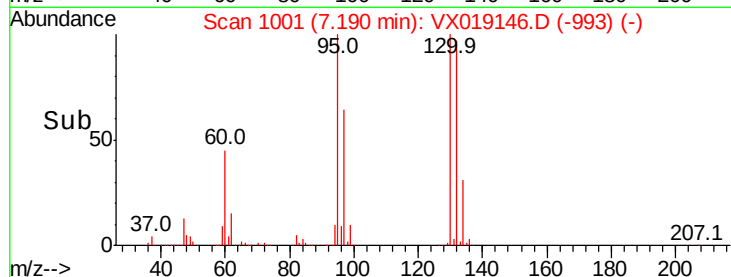
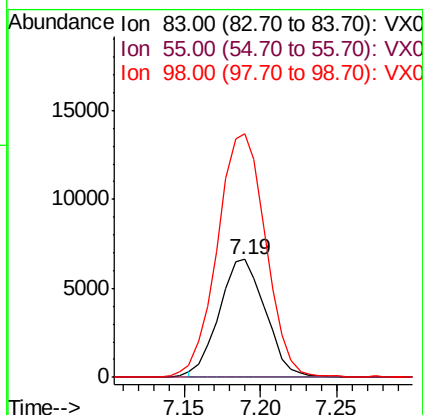
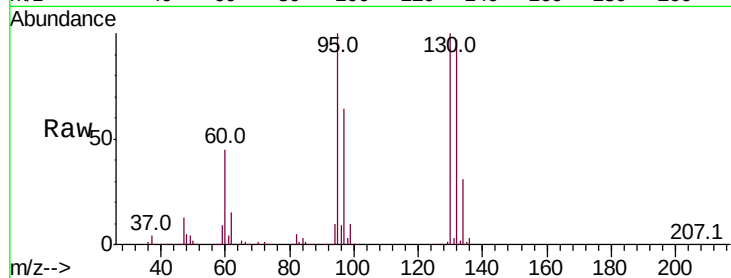




#39
Methylcyclohexane
Concen: 2.247 ug/l
RT: 7.19 min Scan# 1001
Delta R.T. -0.25 min
Lab File: VX019146.D
Acq: 27 Oct 2020 19:03

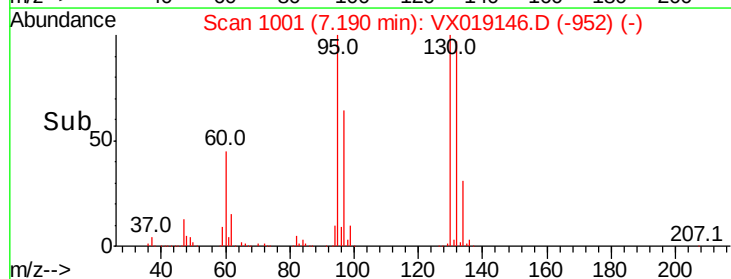
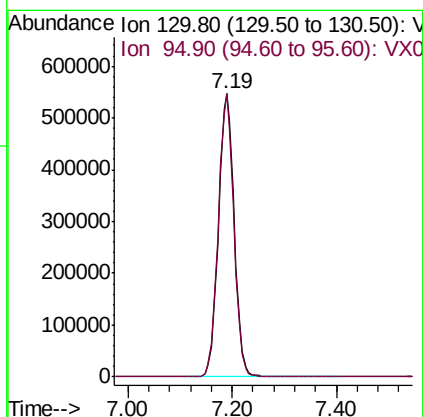
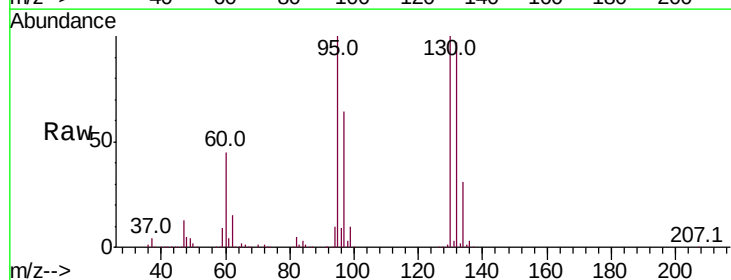
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-MW179D1-GW-20201019

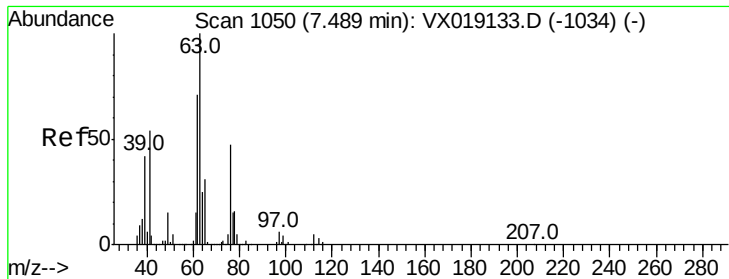
Tot Ion: 83 Resp: 13852
Ion Ratio Lower Upper
83 100
55 0.0 57.0 85.6#
98 205.6 40.5 60.7#



#44
Trichloroethene
Concen: 279.989 ug/l
RT: 7.19 min Scan# 1001
Delta R.T. -0.00 min
Lab File: VX019146.D
Acq: 27 Oct 2020 19:03

Tgt Ion:130 Resp: 1172152
Ion Ratio Lower Upper
130 100
95 100.0 0.0 192.0





#45

1,2-Dichloropropane

Concen: 1.258 ug/l

RT: 7.49 min Scan# 1051

Delta R.T. 0.01 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

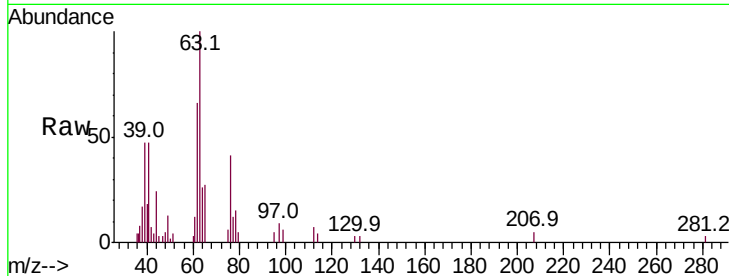
BP-TT-MW179D1-GW-20201019

Tot Ion: 63 Resp: 4505

Ion Ratio Lower Upper

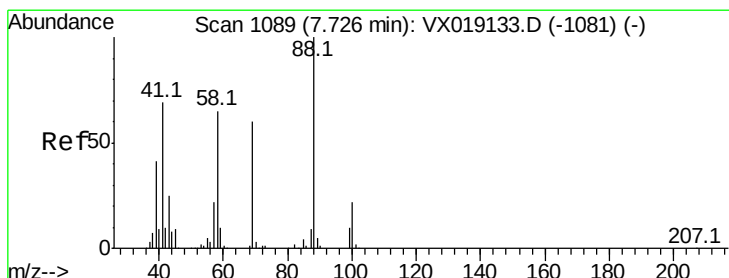
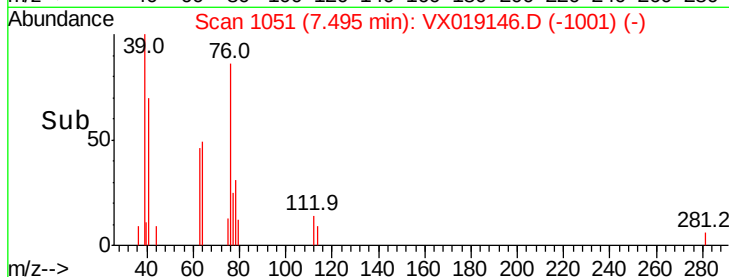
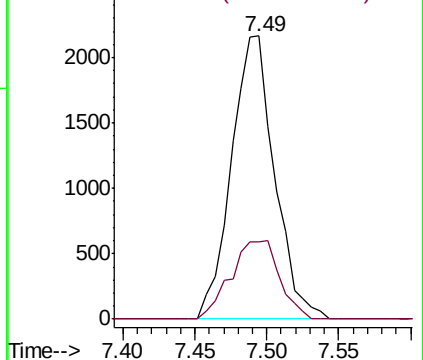
63 100

65 27.4 25.2 37.8



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0



#49

1,4-Dioxane

Concen: 0.979 ug/l

RT: 7.73 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

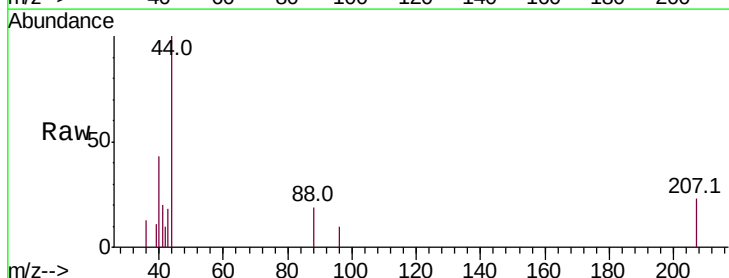
Tgt Ion: 88 Resp: 84

Ion Ratio Lower Upper

88 100

43 0.0 23.0 34.6#

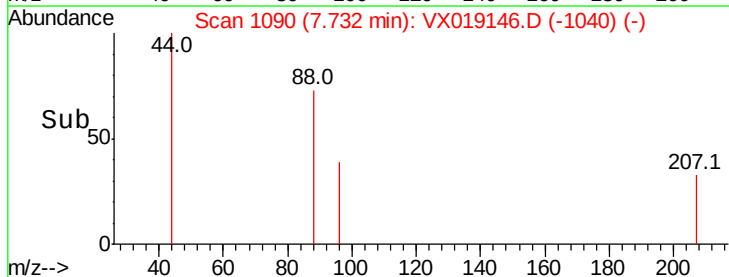
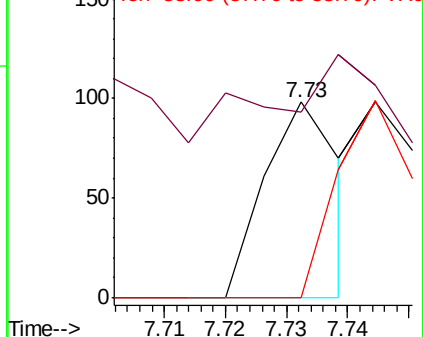
58 129.8 52.2 78.2#

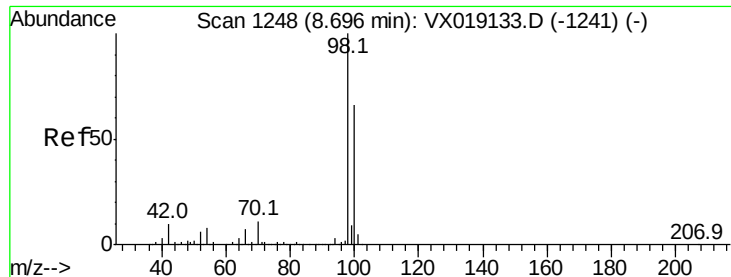


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

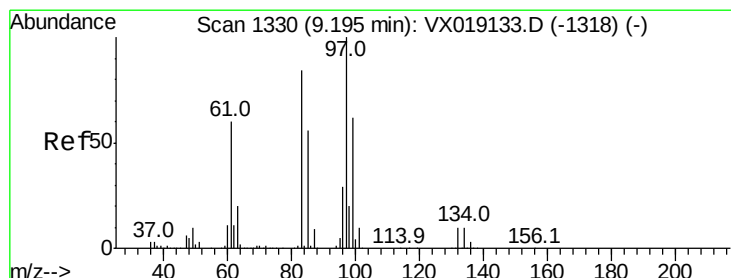
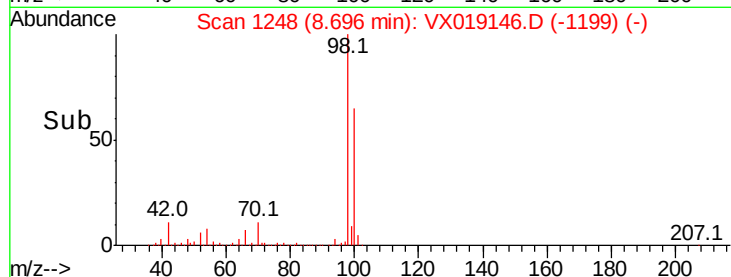
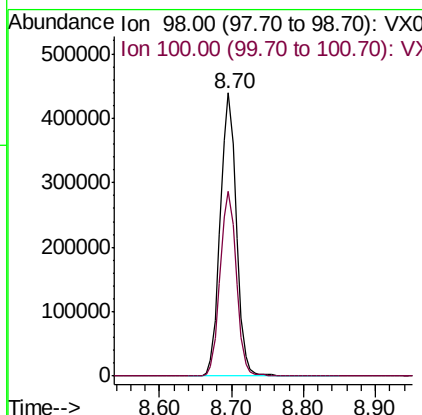
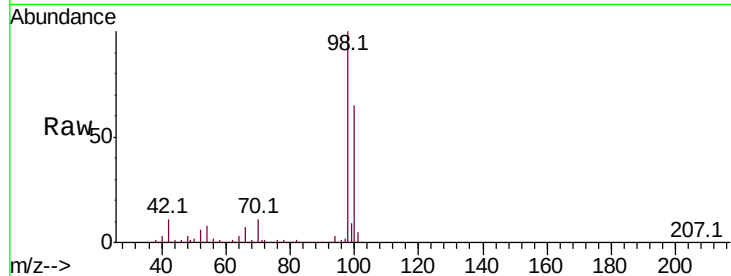




#50
Toluene-d8
Concen: 51.806 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019146.D
Acq: 27 Oct 2020 19:03

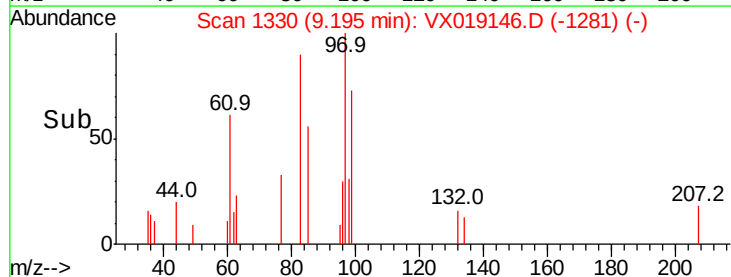
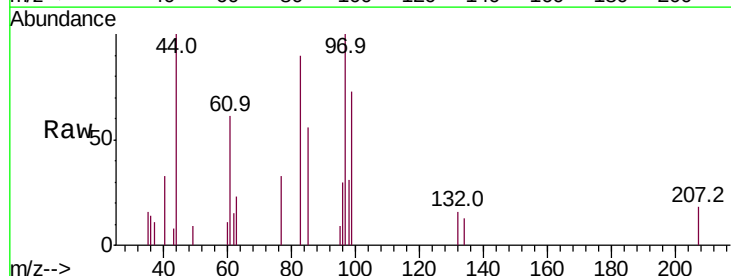
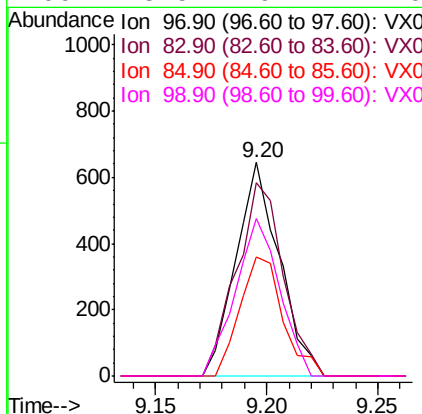
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-MW179D1-GW-20201019

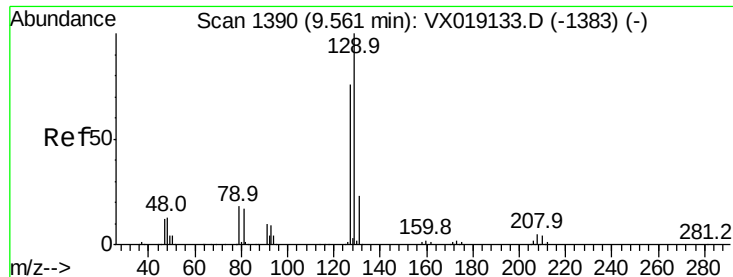
Tot Ion: 98 Resp: 684882
Ion Ratio Lower Upper
98 100
100 66.0 53.0 79.6



#55
1,1,2-Trichloroethane
Concen: 0.235 ug/l
RT: 9.20 min Scan# 1330
Delta R.T. -0.00 min
Lab File: VX019146.D
Acq: 27 Oct 2020 19:03

Tgt Ion: 97 Resp: 876
Ion Ratio Lower Upper
97 100
83 90.2 67.2 100.8
85 55.7 44.6 67.0
99 73.5 49.4 74.0





#60

Dibromochloromethane

Concen: 23.823 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.24 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

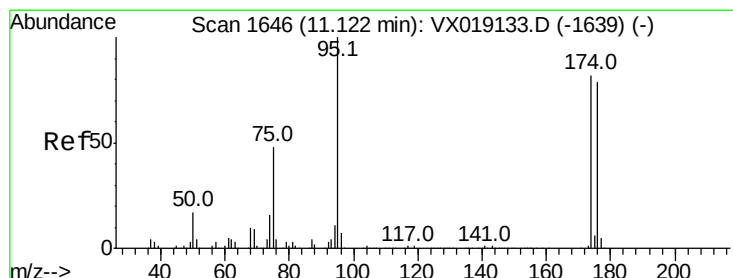
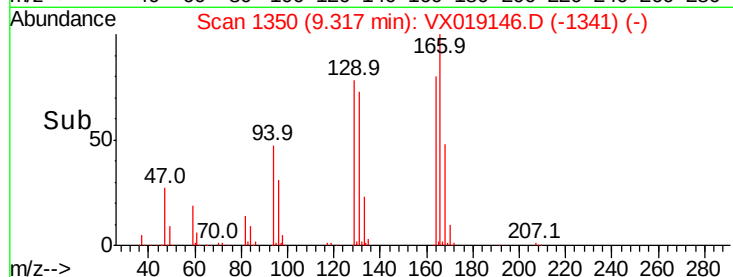
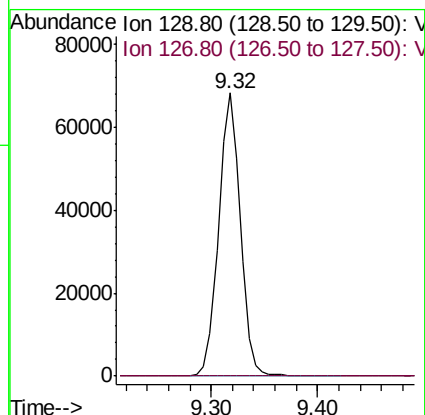
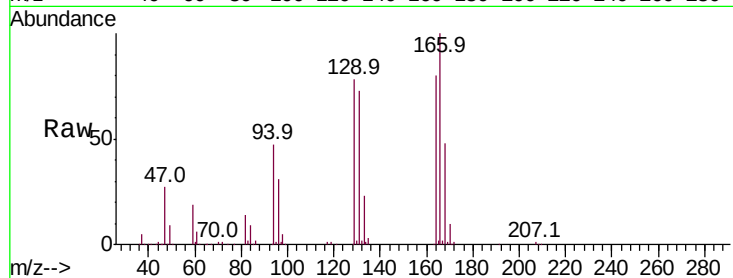
BP-TT-MW179D1-GW-20201019

Tot Ion:129 Resp: 96173

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#



#62

4-Bromofluorobenzene

Concen: 53.585 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

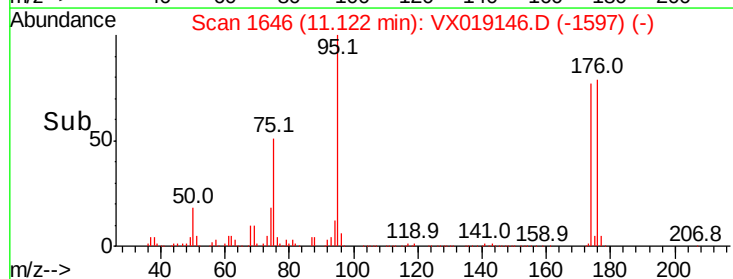
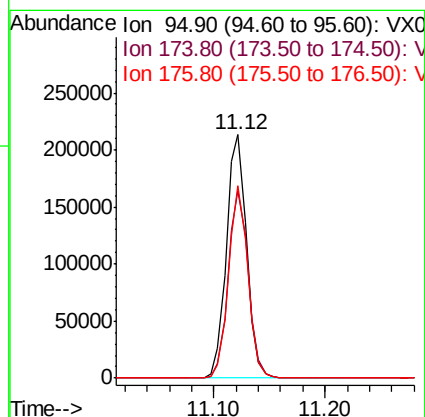
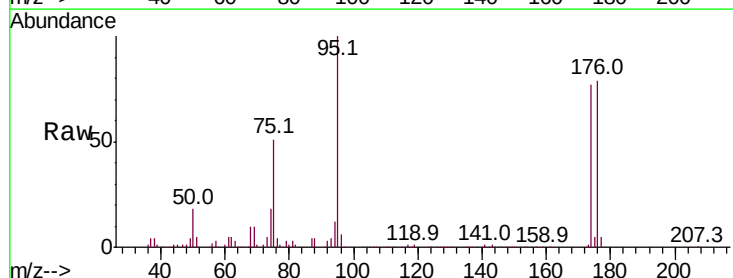
Tgt Ion: 95 Resp: 268274

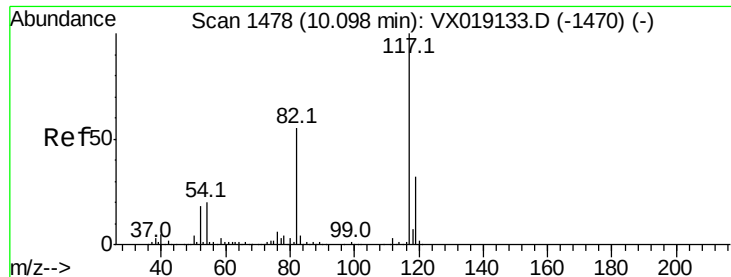
Ion Ratio Lower Upper

95 100

174 76.4 0.0 156.0

176 75.6 0.0 149.8

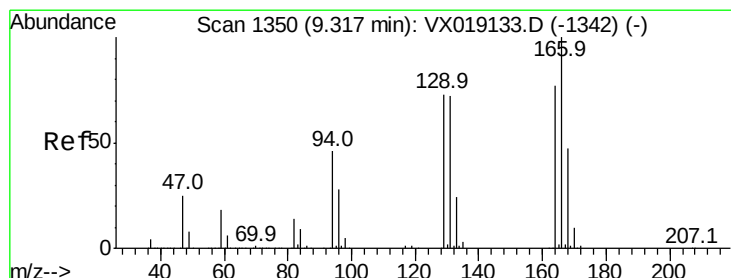
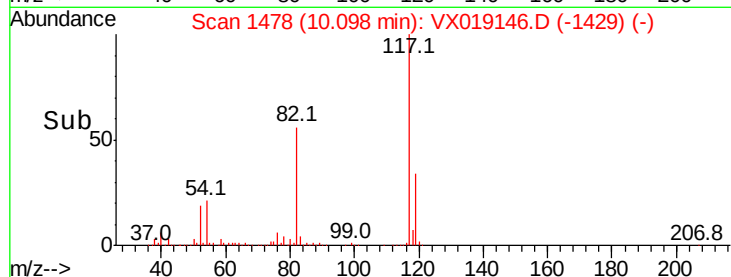
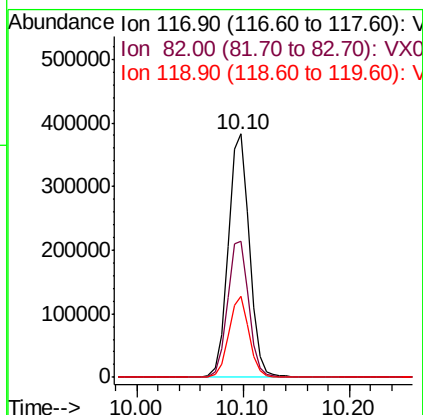
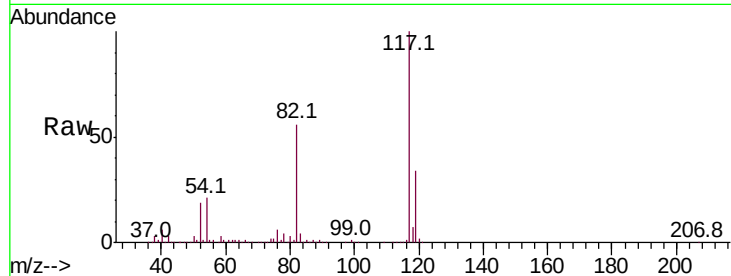




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019146.D
Acq: 27 Oct 2020 19:03

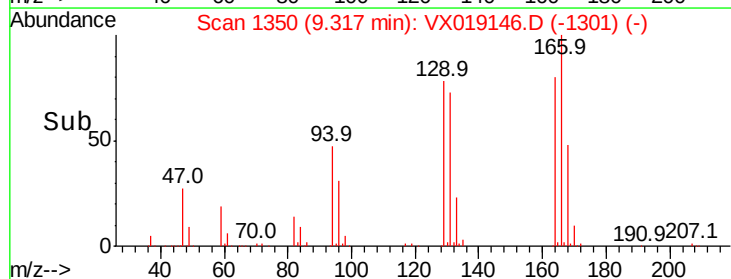
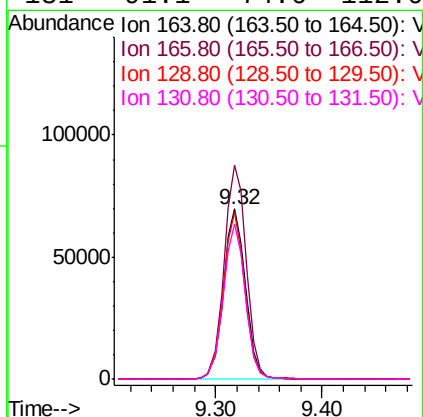
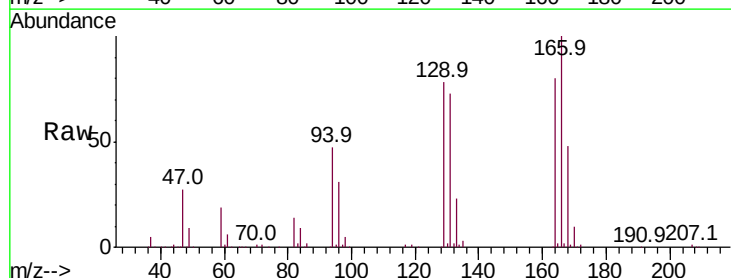
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-MW179D1-GW-20201019

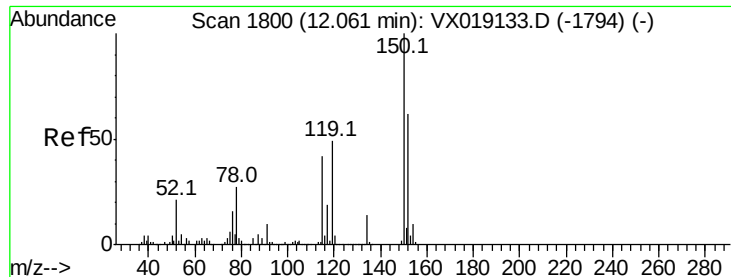
Tot Ion:117 Resp: 532848
Ion Ratio Lower Upper
117 100
82 55.7 43.6 65.4
119 33.5 25.5 38.3



#64
Tetrachloroethene
Concen: 24.523 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX019146.D
Acq: 27 Oct 2020 19:03

Tgt Ion:164 Resp: 99557
Ion Ratio Lower Upper
164 100
166 125.6 104.1 156.1
129 97.8 76.2 114.4
131 91.1 74.6 112.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW179D1-GW-20201019

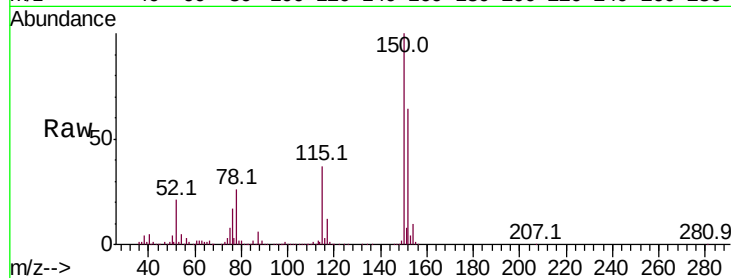
Tot Ion:152 Resp: 274333

Ion Ratio Lower Upper

152 100

115 59.5 41.9 125.7

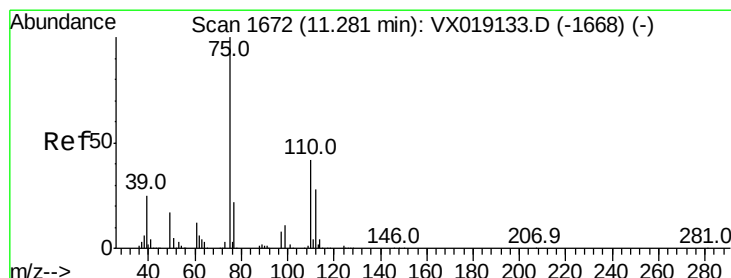
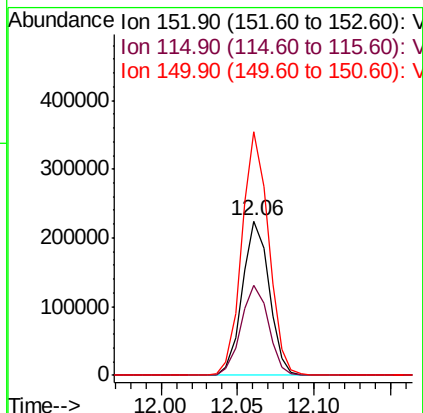
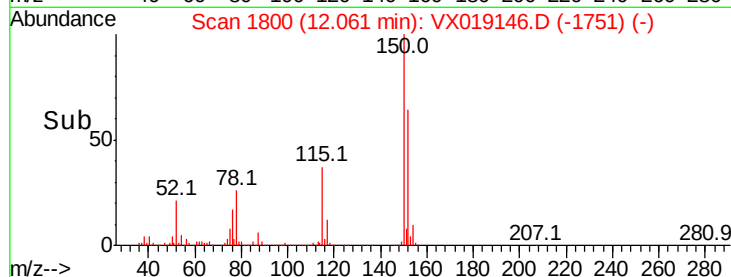
150 157.1 0.0 347.8



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: 24.100 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019146.D

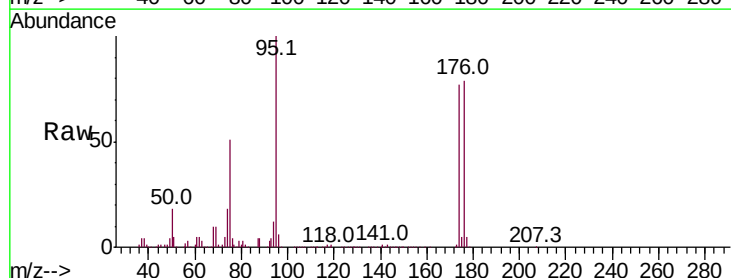
Acq: 27 Oct 2020 19:03

Tgt Ion: 75 Resp: 136514

Ion Ratio Lower Upper

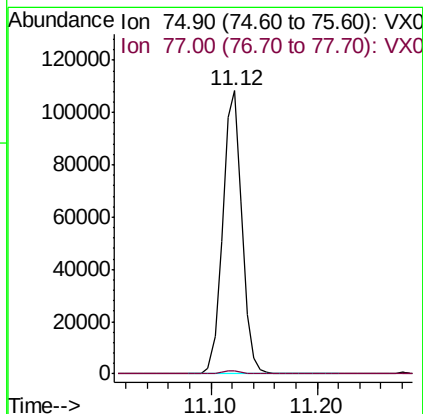
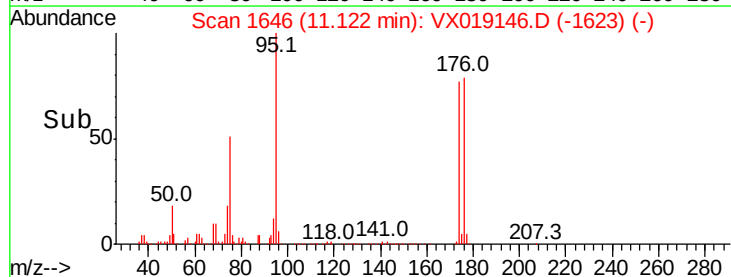
75 100

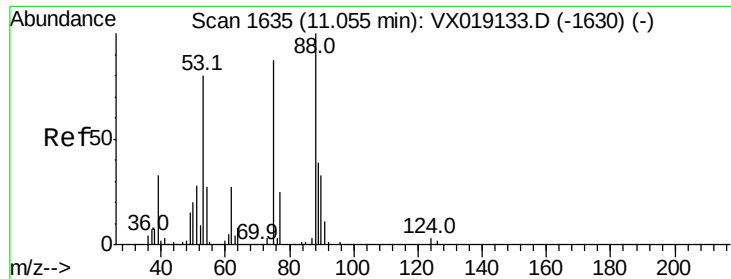
77 1.2 20.3 60.9#



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: 63.456 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019146.D

Acq: 27 Oct 2020 19:03

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW179D1-GW-20201019

Tot Ion: 75 Resp: 136514

Ion Ratio Lower Upper

75 100

53 0.0 73.3 109.9#

89 0.0 38.2 57.2#

