

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102720\
 Data File : VX019145.D
 Acq On : 27 Oct 2020 18:40
 Operator : JC/MD
 Sample : L4470-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-MW179D2-GW-20201016

Quant Time: Oct 28 02:29:53 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	322967	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	550651	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	529653	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	269154	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	206311	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
35) Dibromofluoromethane	5.46	113	167516	48.43	ug/l	0.00
Spiked Amount			Recovery	=	96.86%	
50) Toluene-d8	8.70	98	680788	52.21	ug/l	0.00
Spiked Amount			Recovery	=	104.42%	
62) 4-Bromofluorobenzene	11.12	95	268070	54.29	ug/l	0.00
Spiked Amount			Recovery	=	108.58%	

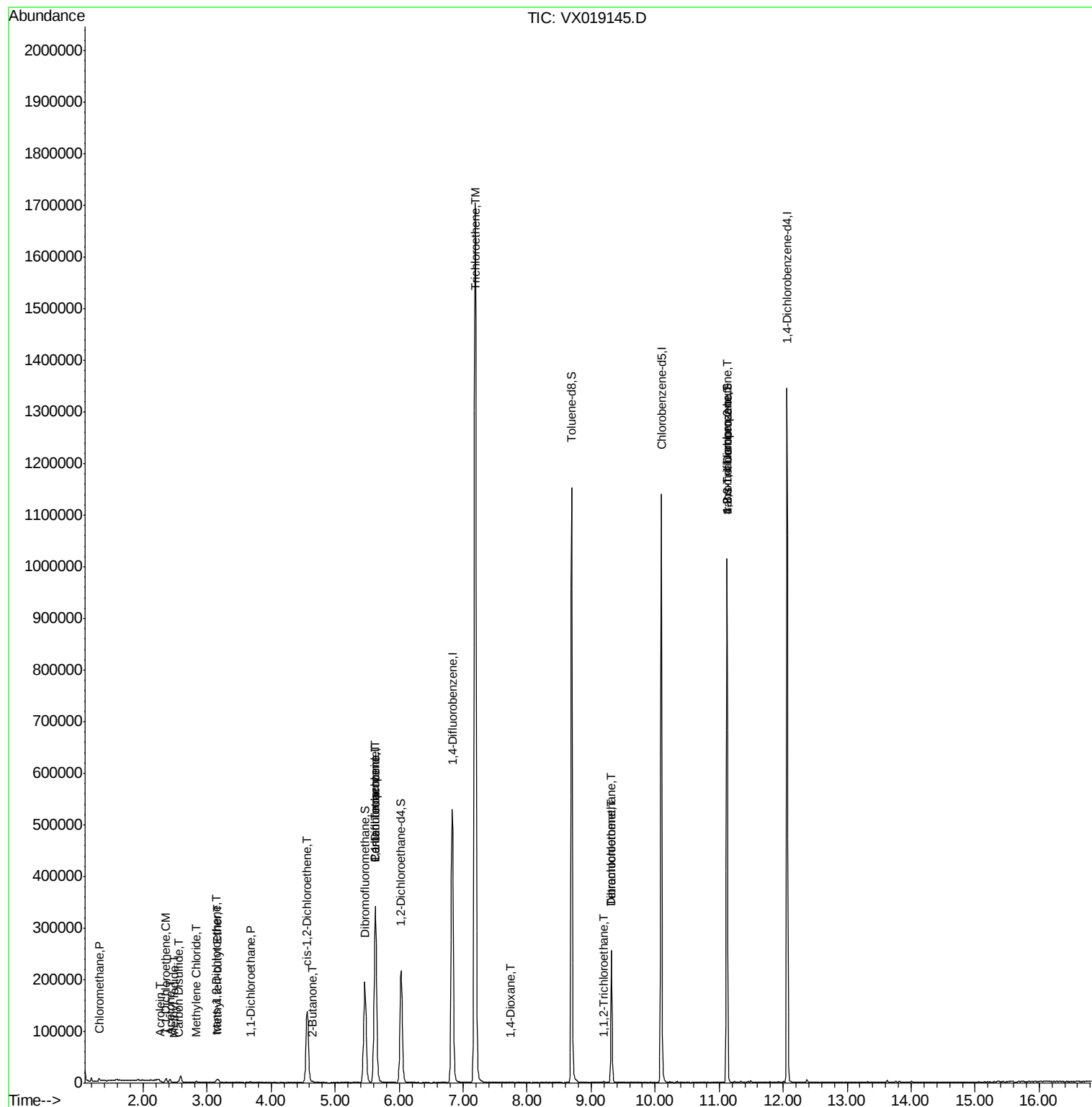
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	2669	0.887	ug/l	95
10) Methyl Iodide	2.49	142	343	6.462	ug/l #	84
12) 1,1-Dichloroethene	2.36	96	2275	0.727	ug/l	88
13) Acrolein	2.27	56	257	6.331	ug/l #	48
16) Acetone	2.42	43	6096	4.243	ug/l	95
17) Carbon Disulfide	2.55	76	1695	0.947	ug/l	95
19) Methyl tert-butyl Ether	3.17	73	7451	0.687	ug/l	98
20) Methylene Chloride	2.84	84	1175	0.326	ug/l	87
21) trans-1,2-Dichloroethene	3.14	96	921	0.256	ug/l	93
24) 1,1-Dichloroethane	3.67	63	2043	0.346	ug/l	97
25) 2-Butanone	4.65	43	561	0.248	ug/l #	44
27) cis-1,2-Dichloroethene	4.56	96	92288	22.925	ug/l	90
36) 1,1-Dichloropropene	5.63	75	25302	4.976	ug/l #	49
38) Carbon Tetrachloride	5.62	117	32500	6.271	ug/l #	16
44) Trichloroethene	7.19	130	653984	158.390	ug/l	97
49) 1,4-Dioxane	7.73	88	142	1.678	ug/l #	38
55) 1,1,2-Trichloroethane	9.19	97	804	0.219	ug/l #	64
60) Dibromochloromethane	9.32	129	45428	11.409	ug/l #	11
64) Tetrachloroethene	9.32	164	48286	11.966	ug/l	94
76) 1,2,3-Trichloropropane	11.12	75	136335	24.532	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	136335	64.592	ug/l #	12

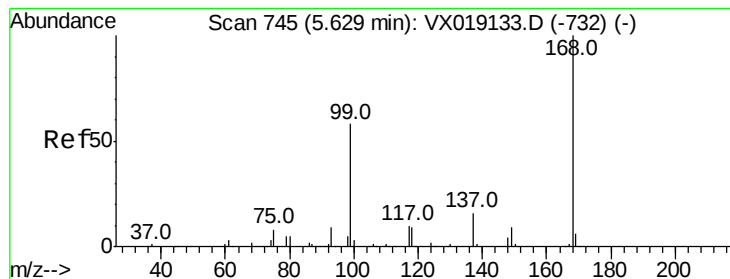
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 27 13:55:07 2020
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: VX019145.D

Acq: 27 Oct 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

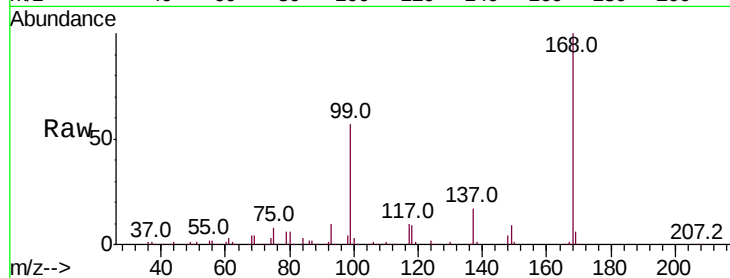
BP-TT-MW179D2-GW-20201016

Tot Ion:168 Resp: 322967

Ion Ratio Lower Upper

168 100

99 57.0 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

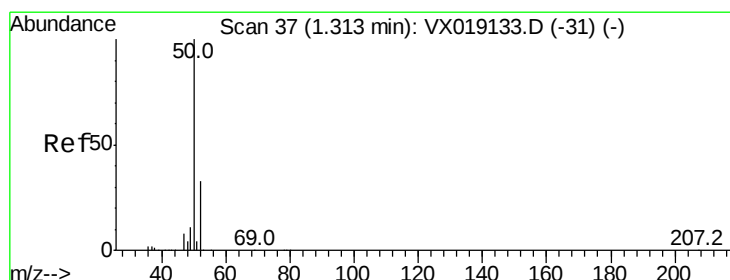
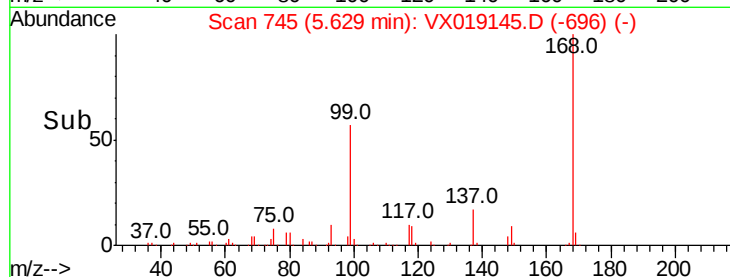
5.63

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.887 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX019145.D

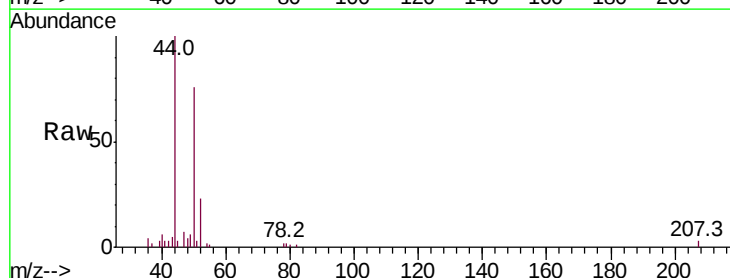
Acq: 27 Oct 2020 18:40

Tgt Ion: 50 Resp: 2669

Ion Ratio Lower Upper

50 100

52 30.7 26.8 40.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

3000

2500

2000

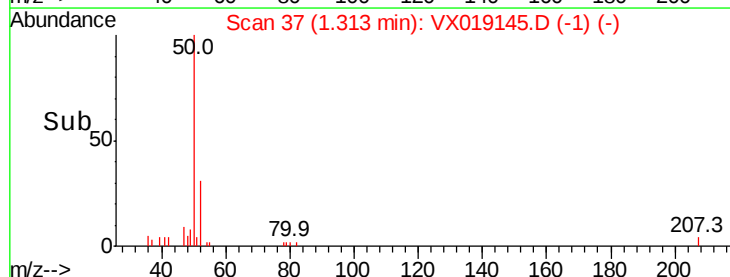
1500

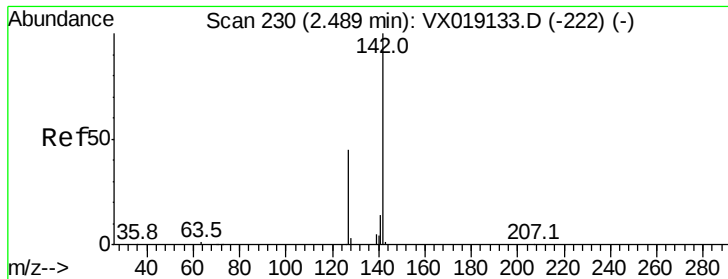
1000

500

0

Time-->

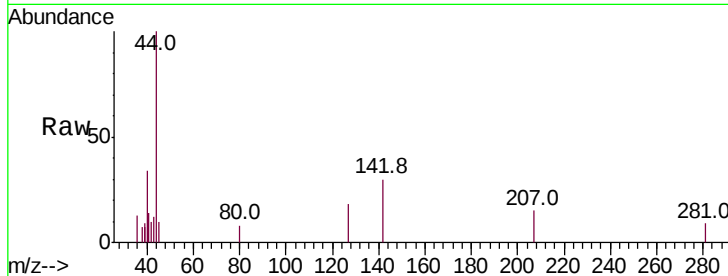




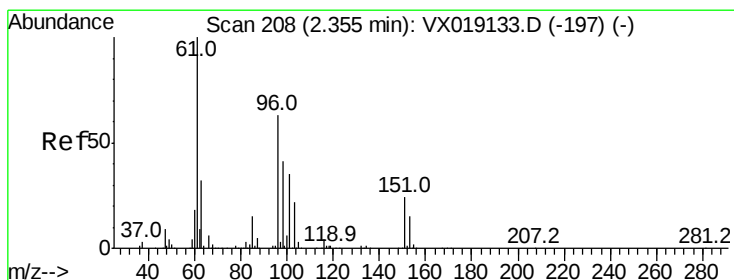
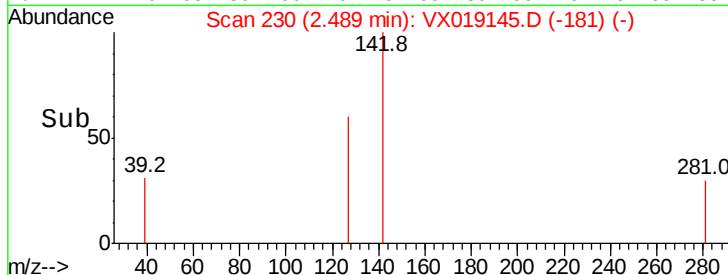
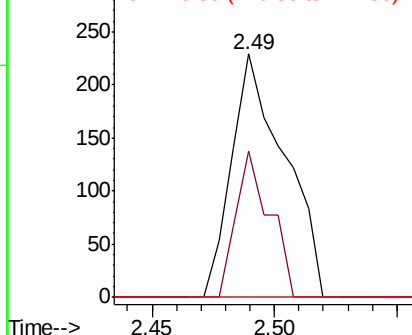
#10
Methvl Iodide
Concen: 6.462 ug/l
RT: 2.49 min Scan# 230
Delta R.T. 0.00 min
Lab File: VX019145.D
Acq: 27 Oct 2020 18:40

Instrument :
MSVOA_X
ClientSampleId :
BP-TT-MW179D2-GW-20201016

Tot Ion:142 Resp: 343
Ion Ratio Lower Upper
142 100
127 38.2 36.1 54.1
141 0.0 11.3 16.9#

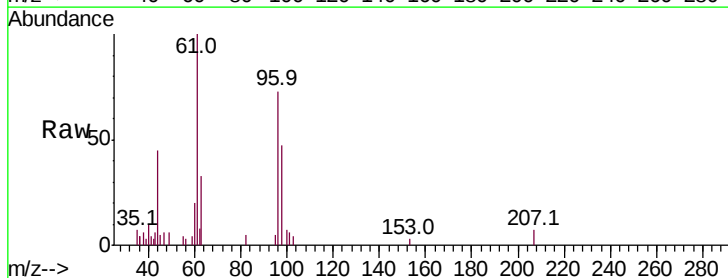


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

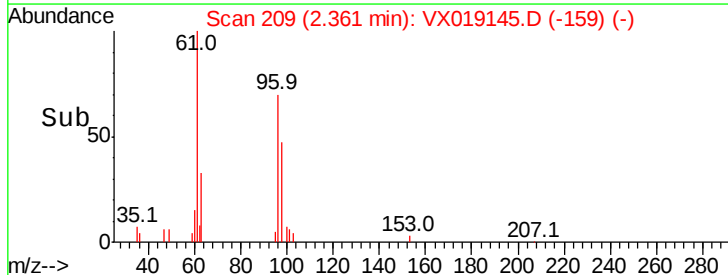
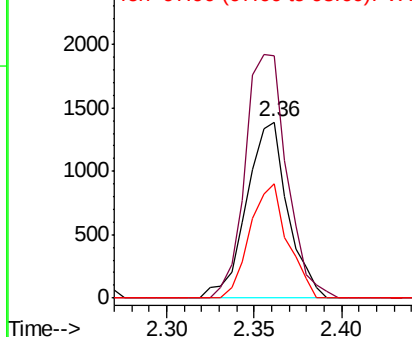


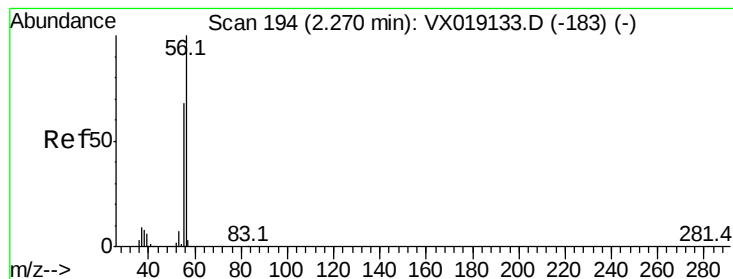
#12
1,1-Dichloroethene
Concen: 0.727 ug/l
RT: 2.36 min Scan# 209
Delta R.T. 0.01 min
Lab File: VX019145.D
Acq: 27 Oct 2020 18:40

Tgt Ion: 96 Resp: 2275
Ion Ratio Lower Upper
96 100
61 137.8 127.7 191.5
98 65.1 52.1 78.1



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: 6.331 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX019145.D

Acq: 27 Oct 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

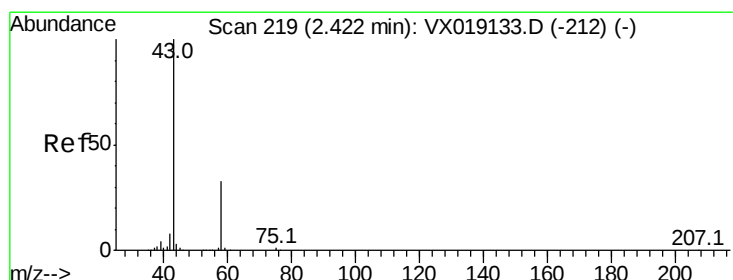
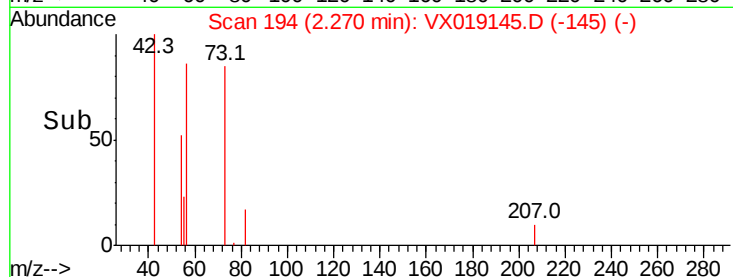
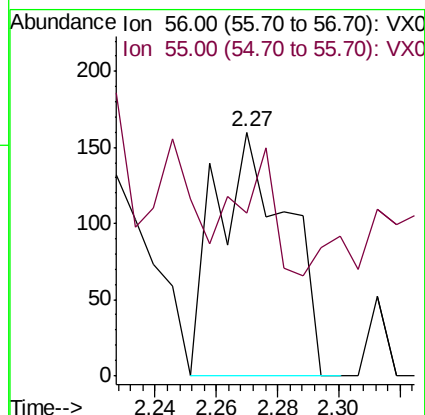
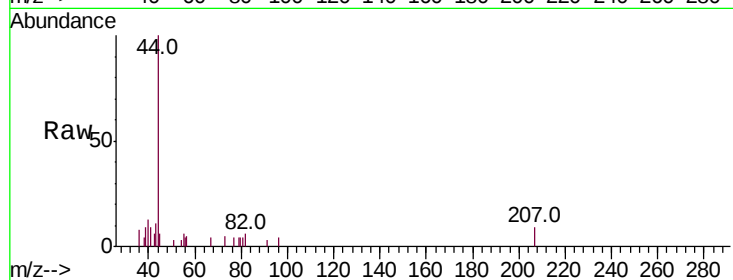
BP-TT-MW179D2-GW-20201016

Tot Ion: 56 Resp: 257

Ion Ratio Lower Upper

56 100

55 26.1 54.7 82.1#



#16

Acetone

Concen: 4.243 ug/l

RT: 2.42 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX019145.D

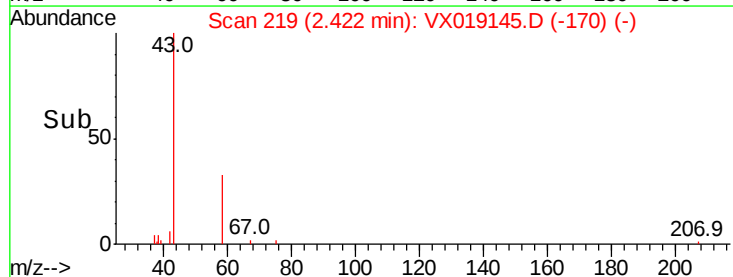
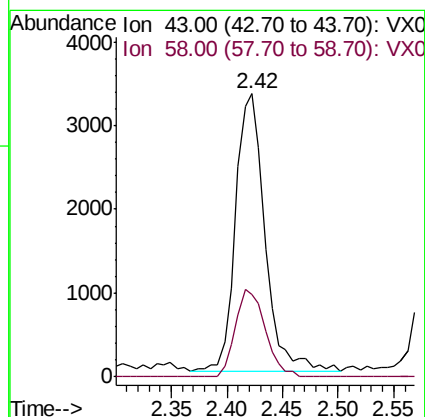
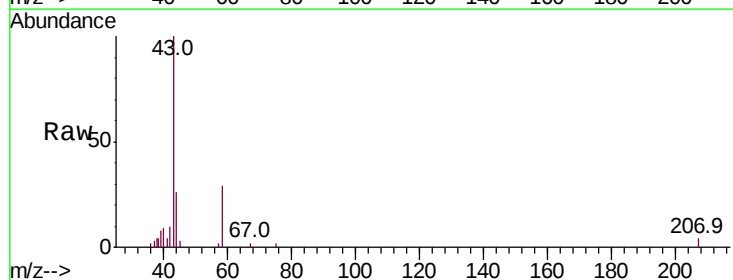
Acq: 27 Oct 2020 18:40

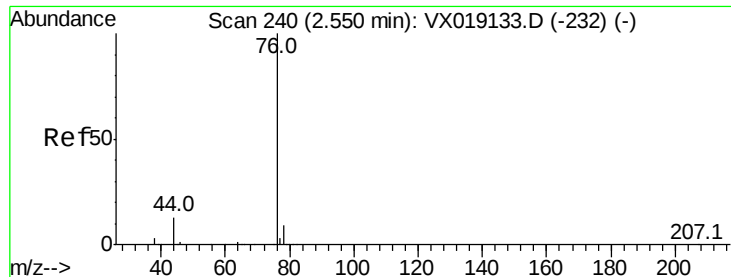
Tgt Ion: 43 Resp: 6096

Ion Ratio Lower Upper

43 100

58 29.8 26.3 39.5





#17

Carbon Disulfide

Concen: 0.947 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019145.D

Acq: 27 Oct 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

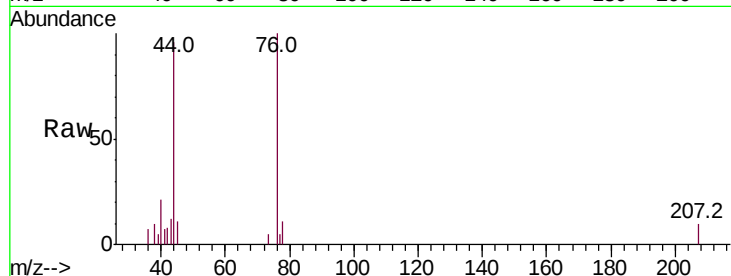
BP-TT-MW179D2-GW-20201016

Tot Ion: 76 Resp: 1695

Ion Ratio Lower Upper

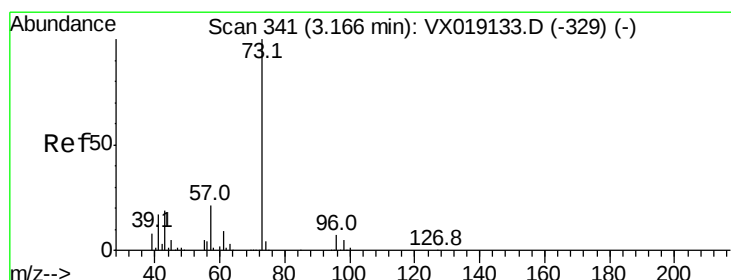
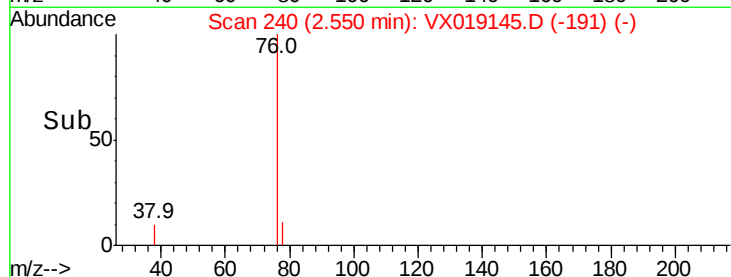
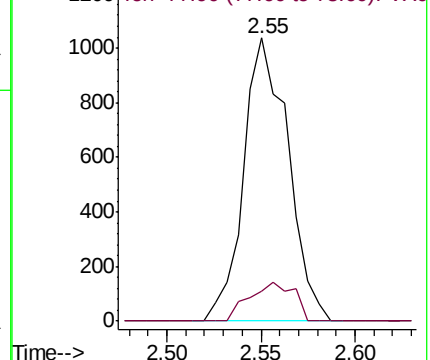
76 100

78 10.8 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#19

Methyl tert-butyl Ether

Concen: 0.687 ug/l

RT: 3.17 min Scan# 342

Delta R.T. 0.01 min

Lab File: VX019145.D

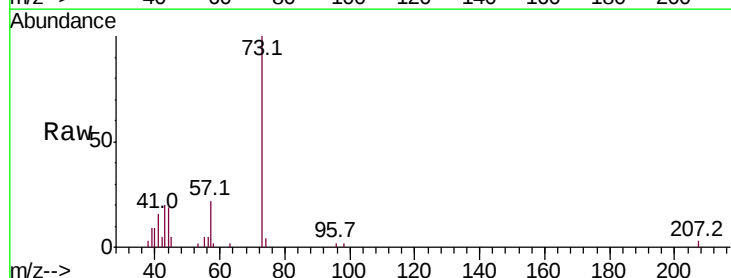
Acq: 27 Oct 2020 18:40

Tgt Ion: 73 Resp: 7451

Ion Ratio Lower Upper

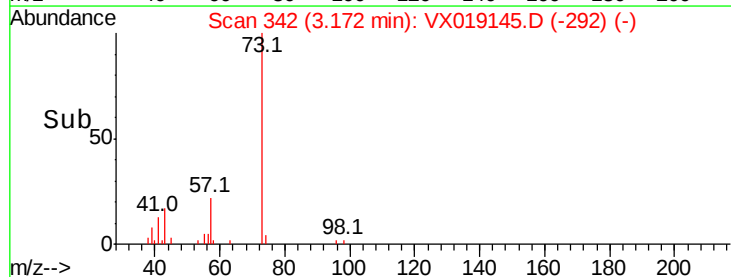
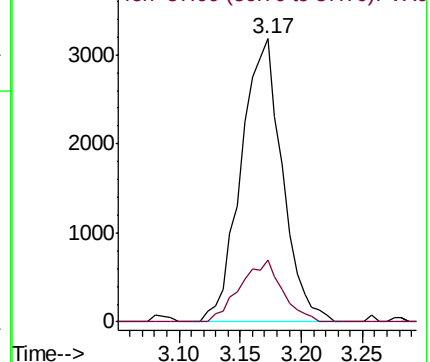
73 100

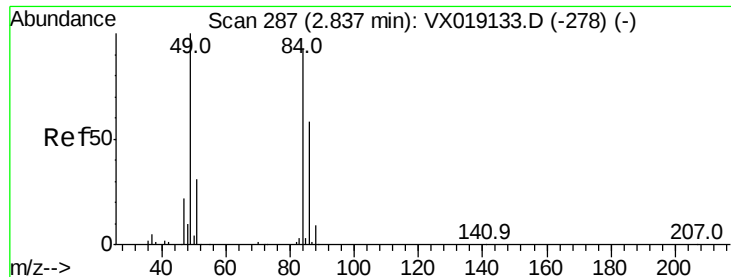
57 21.7 16.6 25.0



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

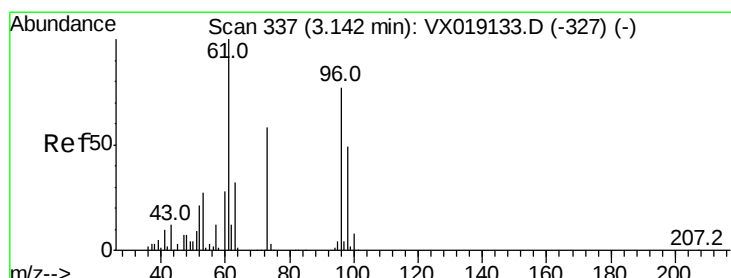
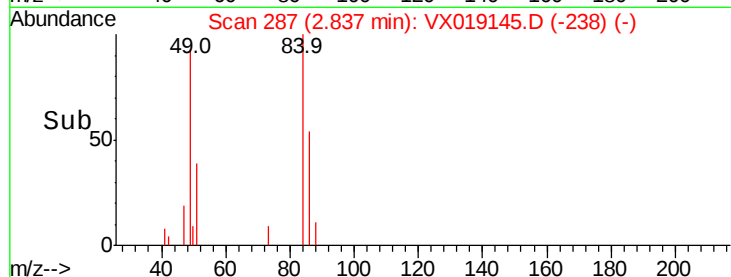
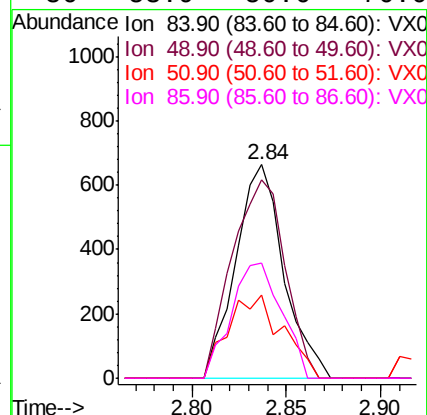
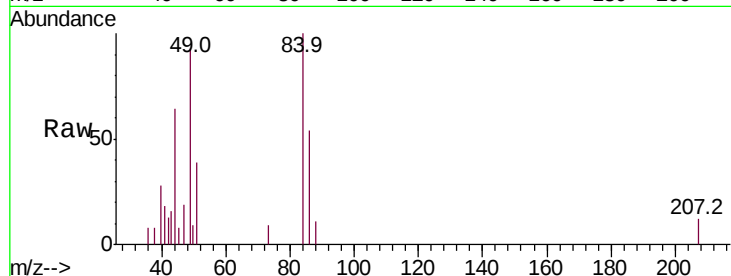




#20
Methvlene Chloride
Concen: 0.326 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX019145.D
Acq: 27 Oct 2020 18:40

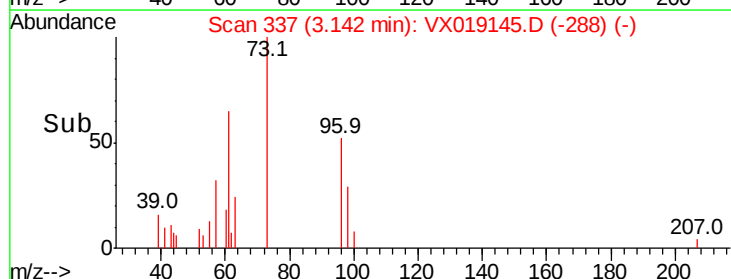
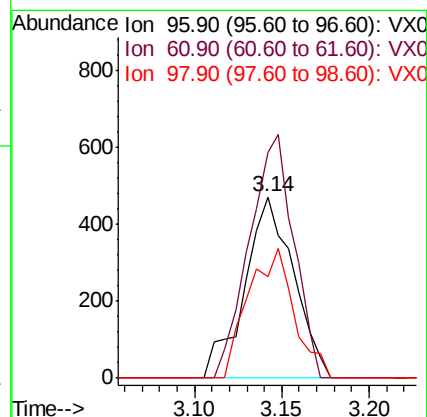
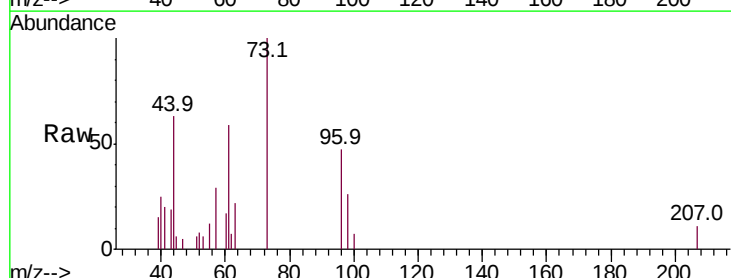
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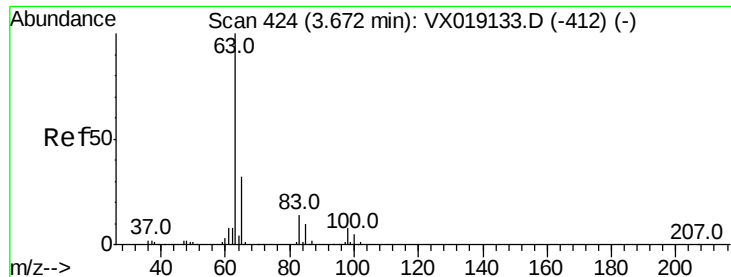
Tot Ion:	84	Resp:	1175
Ion	Ratio	Lower	Upper
84	100		
49	93.1	86.8	130.2
51	39.0	27.3	40.9
86	53.9	50.6	76.0



#21
trans-1,2-Dichloroethene
Concen: 0.256 ug/l
RT: 3.14 min Scan# 337
Delta R.T. 0.00 min
Lab File: VX019145.D
Acq: 27 Oct 2020 18:40

Tgt Ion:	96	Resp:	921
Ion	Ratio	Lower	Upper
96	100		
61	124.4	104.2	156.4
98	56.1	51.3	76.9





#24

1,1-Dichloroethane

Concen: 0.346 ug/l

RT: 3.67 min Scan# 423

Delta R.T. -0.01 min

Lab File: VX019145.D

Acq: 27 Oct 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW179D2-GW-20201016

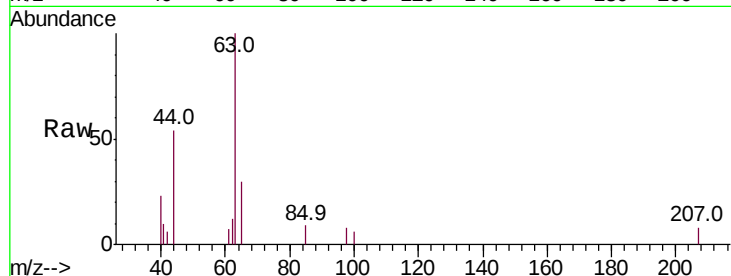
Tot Ion: 63 Resp: 2043

Ion Ratio Lower Upper

63 100

98 8.0 3.8 11.4

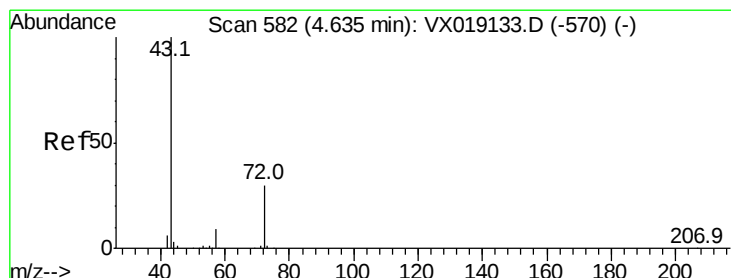
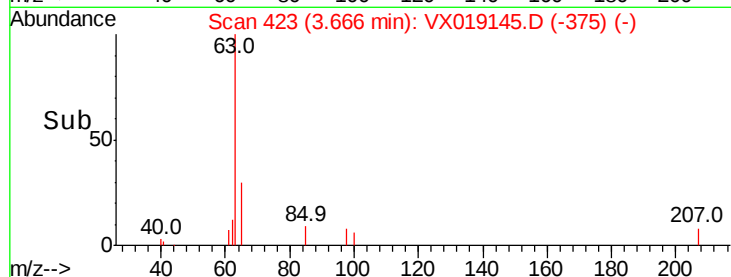
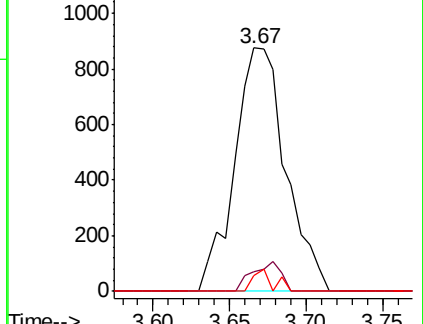
100 6.4 2.4 7.2



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



#25

2-Butanone

Concen: 0.248 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX019145.D

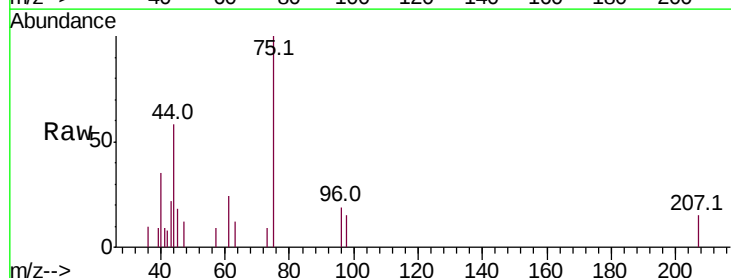
Acq: 27 Oct 2020 18:40

Tgt Ion: 43 Resp: 561

Ion Ratio Lower Upper

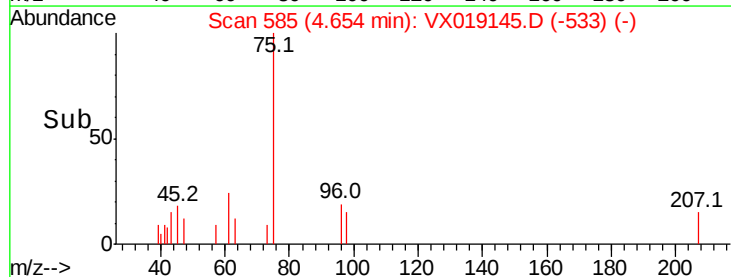
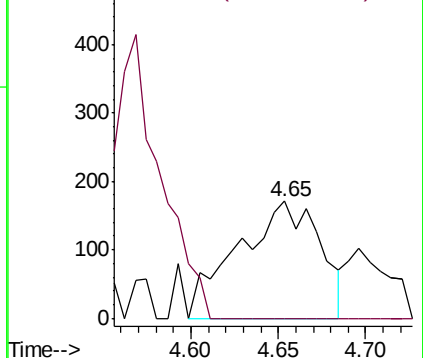
43 100

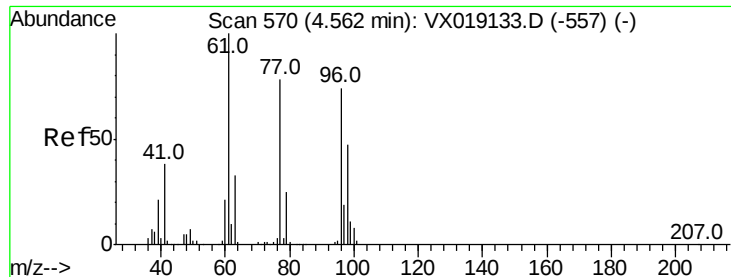
72 0.0 24.6 36.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#27

cis-1,2-Dichloroethene

Concen: 22.925 ug/l

RT: 4.56 min Scan# 570

Delta R.T. 0.00 min

Lab File: VX019145.D

Acq: 27 Oct 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW179D2-GW-20201016

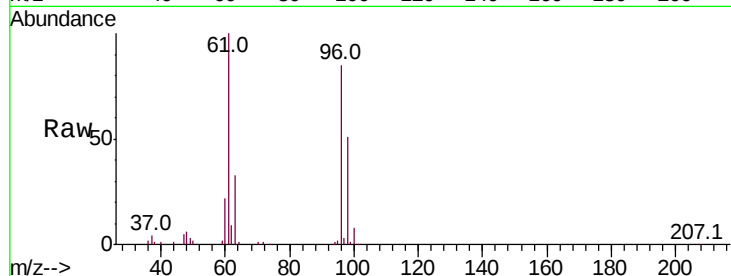
Tot Ion: 96 Resp: 92288

Ion Ratio Lower Upper

96 100

61 122.0 0.0 278.8

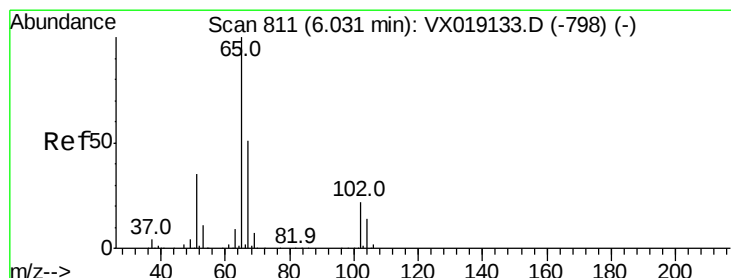
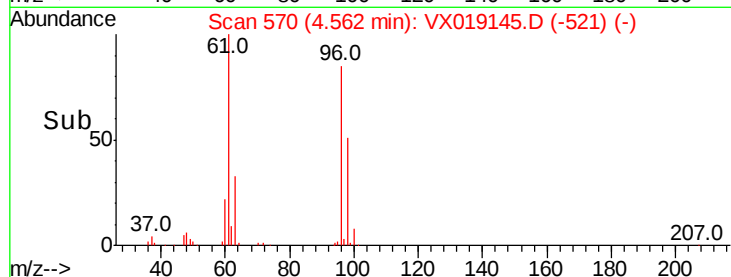
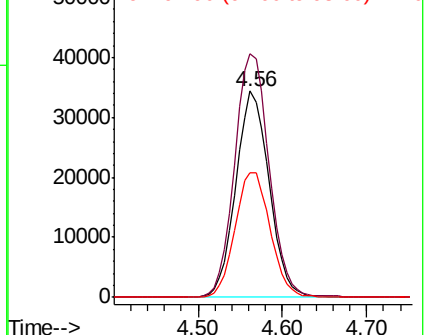
98 63.6 0.0 130.2



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



#33

1,2-Dichloroethane-d4

Concen: 49.534 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX019145.D

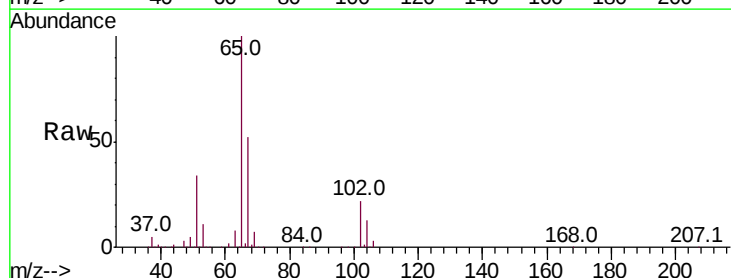
Acq: 27 Oct 2020 18:40

Tgt Ion: 65 Resp: 206311

Ion Ratio Lower Upper

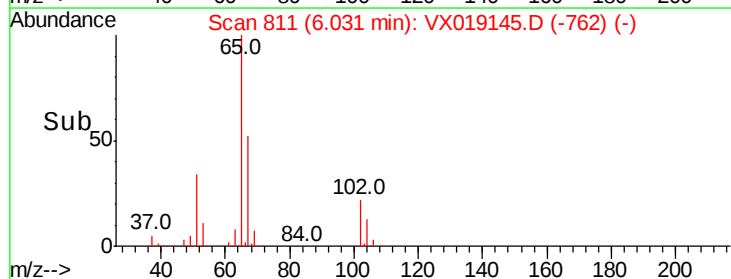
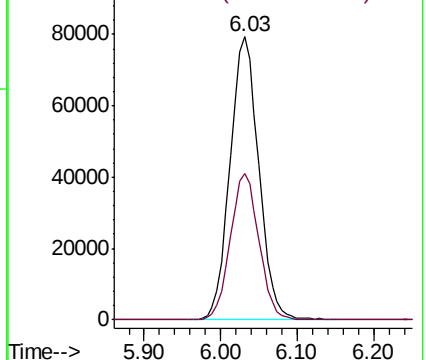
65 100

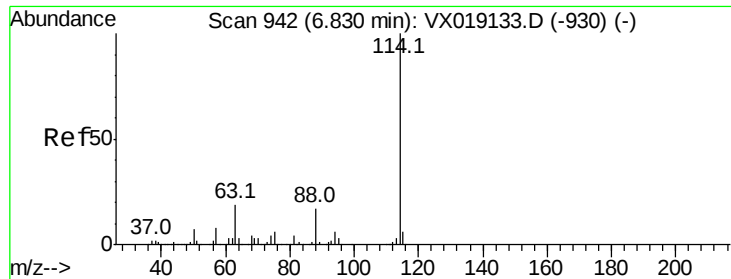
67 51.5 0.0 103.0



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: VX019145.D

Acq: 27 Oct 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW179D2-GW-20201016

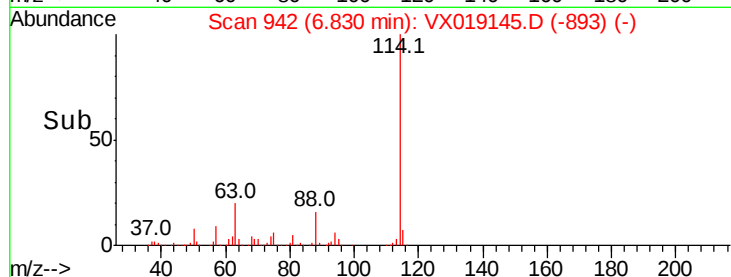
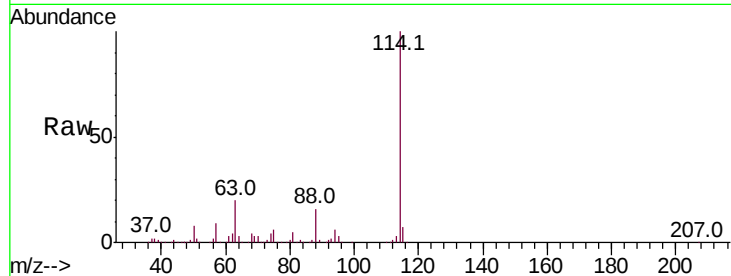
Tot Ion:114 Resp: 550651

Ion Ratio Lower Upper

114 100

63 20.0 0.0 38.8

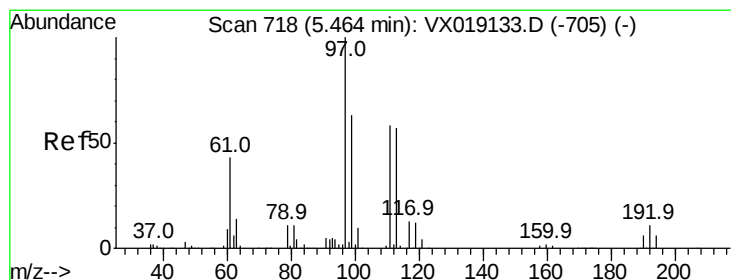
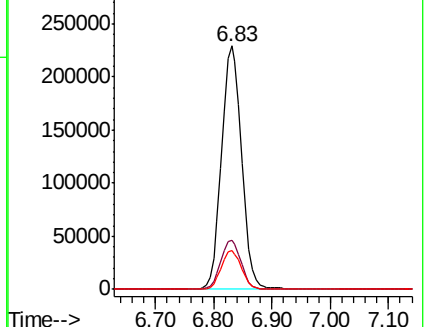
88 16.2 0.0 34.2



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: 48.431 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX019145.D

Acq: 27 Oct 2020 18:40

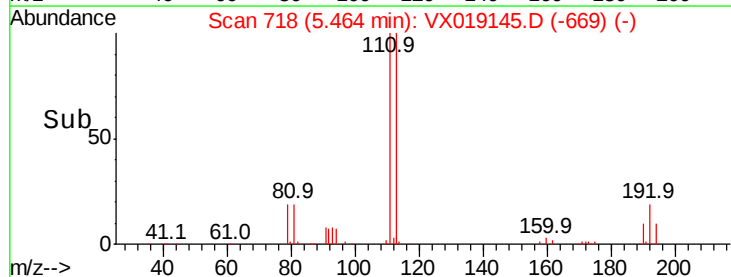
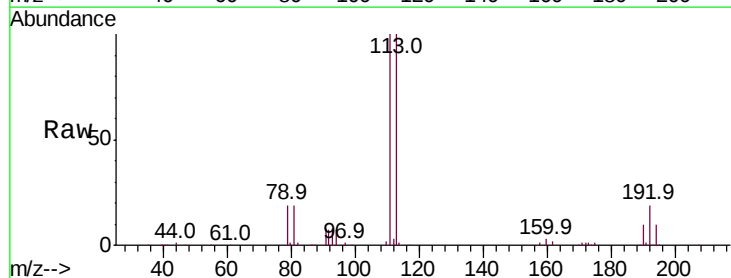
Tgt Ion:113 Resp: 167516

Ion Ratio Lower Upper

113 100

111 102.5 82.3 123.5

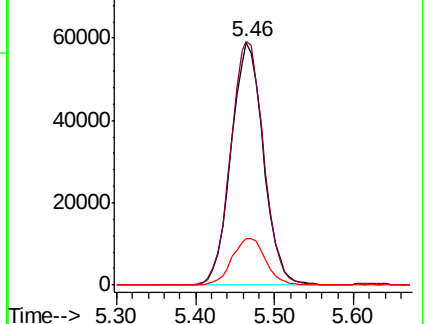
192 20.0 16.2 24.2

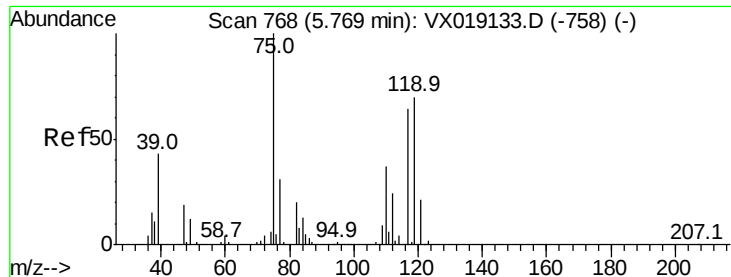


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

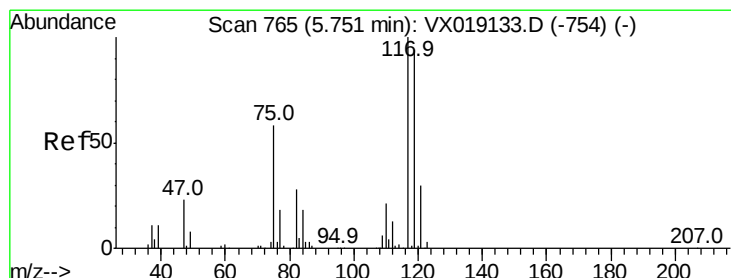
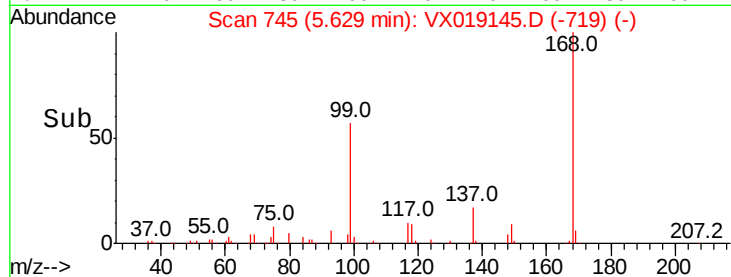
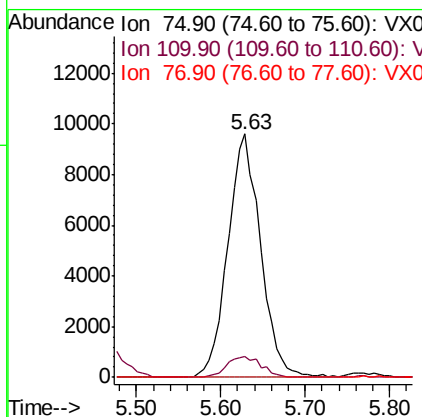
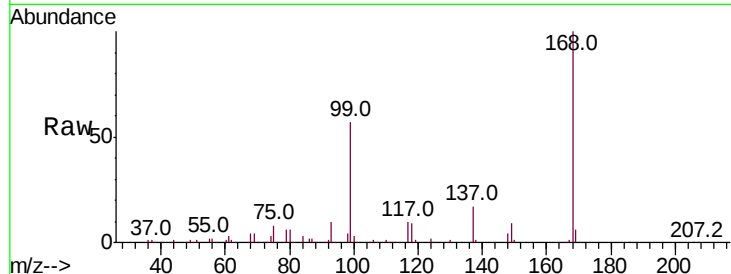




#36
 1,1-Dichloropropene
 Concen: 4.976 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX019145.D
 Acq: 27 Oct 2020 18:40

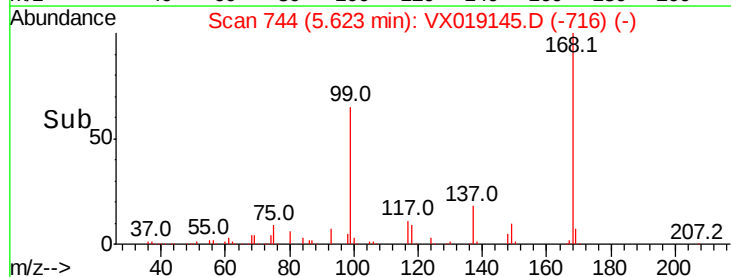
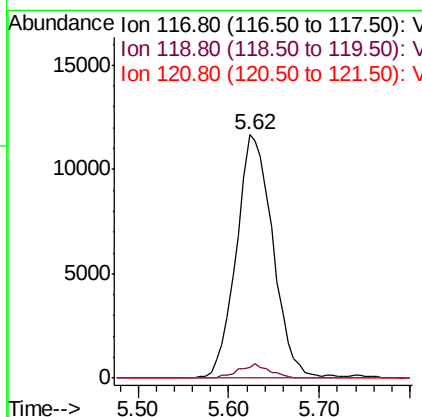
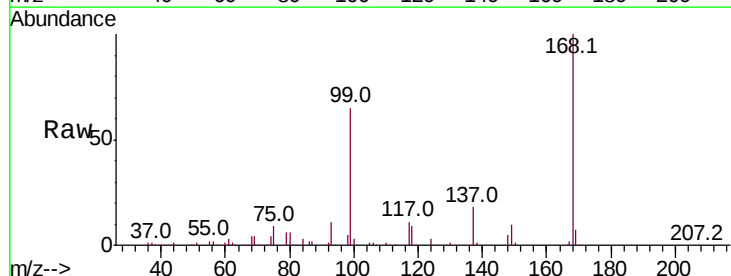
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-MW179D2-GW-20201016

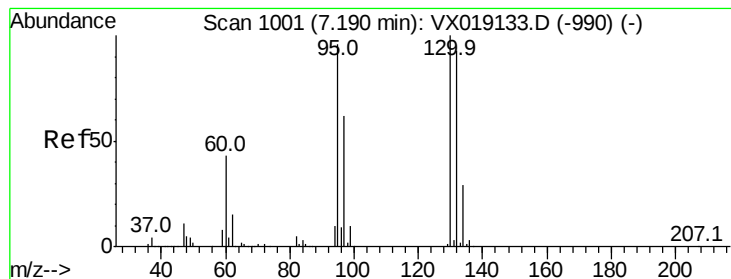
Tot Ion: 75 Resp: 25302
 Ion Ratio Lower Upper
 75 100
 110 9.1 18.3 54.9#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 6.271 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.13 min
 Lab File: VX019145.D
 Acq: 27 Oct 2020 18:40

Tgt Ion: 117 Resp: 32500
 Ion Ratio Lower Upper
 117 100
 119 4.3 75.0 112.6#
 121 0.0 23.9 35.9#





#44

Trichloroethene

Concen: 158.390 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VX019145.D

Acq: 27 Oct 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

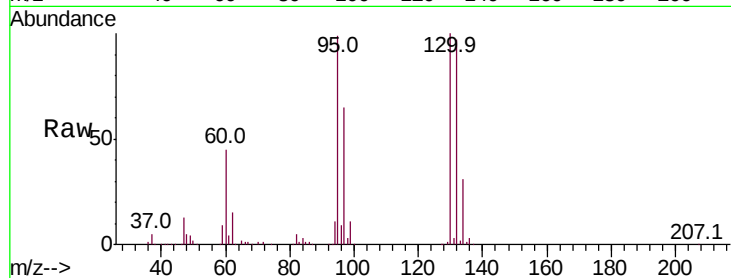
BP-TT-MW179D2-GW-20201016

Tot Ion:130 Resp: 653984

Ion Ratio Lower Upper

130 100

95 98.9 0.0 192.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.19

300000

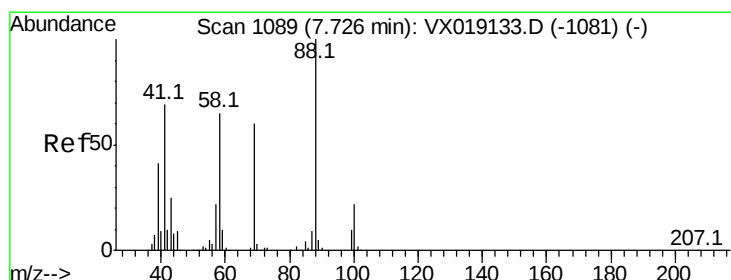
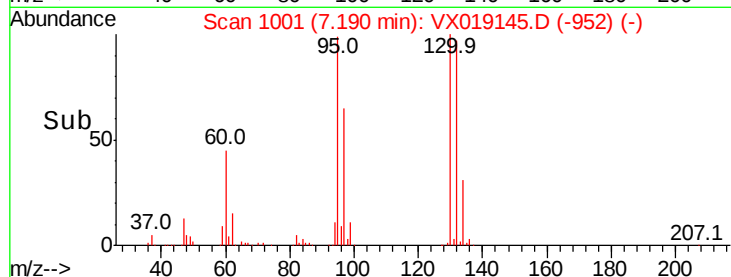
200000

100000

0

Time-->

7.10 7.20 7.30 7.40



#49

1,4-Dioxane

Concen: 1.678 ug/l

RT: 7.73 min Scan# 1090

Delta R.T. 0.01 min

Lab File: VX019145.D

Acq: 27 Oct 2020 18:40

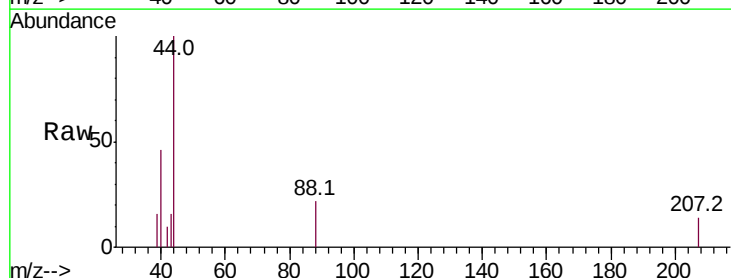
Tgt Ion: 88 Resp: 142

Ion Ratio Lower Upper

88 100

43 0.0 23.0 34.6#

58 13.4 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

200

150

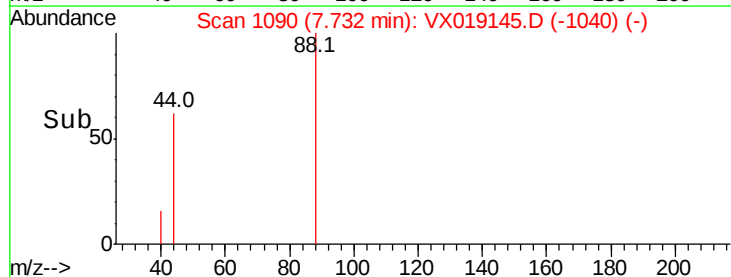
100

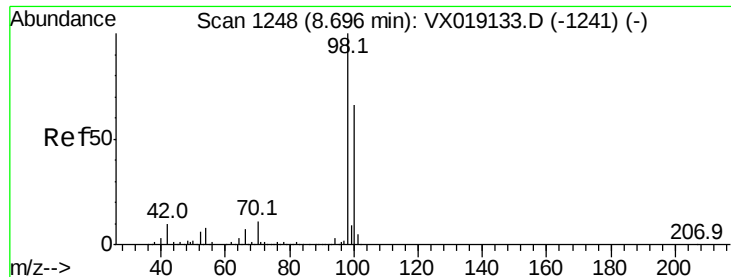
50

0

Time-->

7.70 7.75

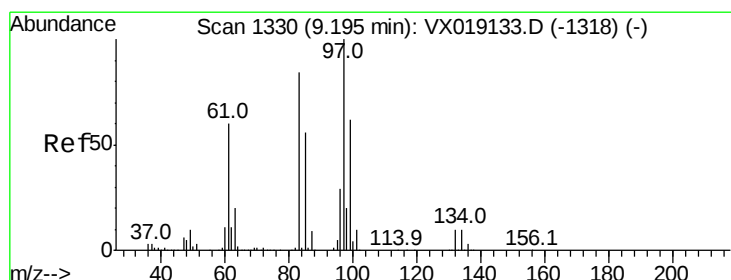
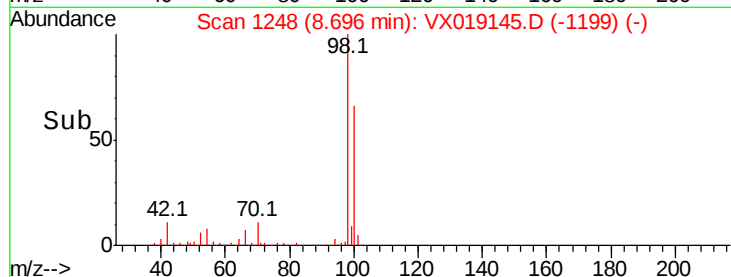
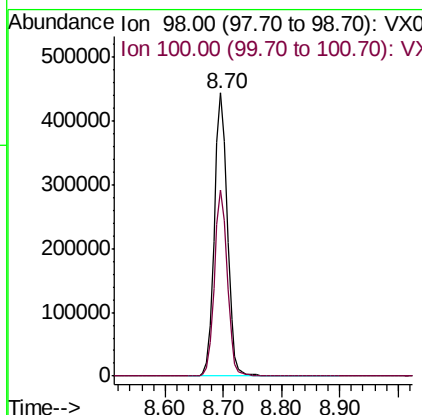
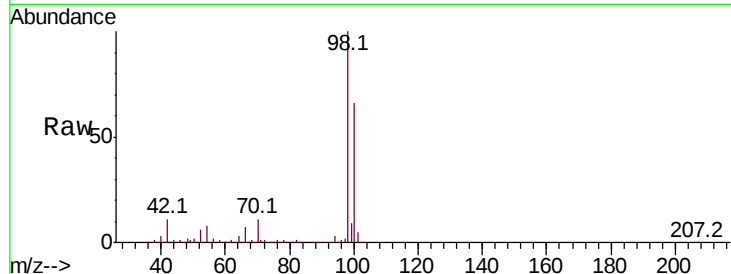




#50
Toluene-d8
Concen: 52.213 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX019145.D
Acq: 27 Oct 2020 18:40

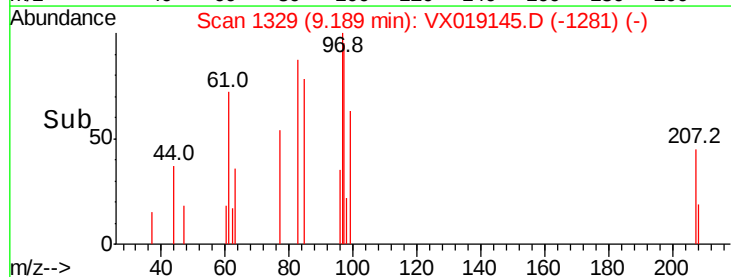
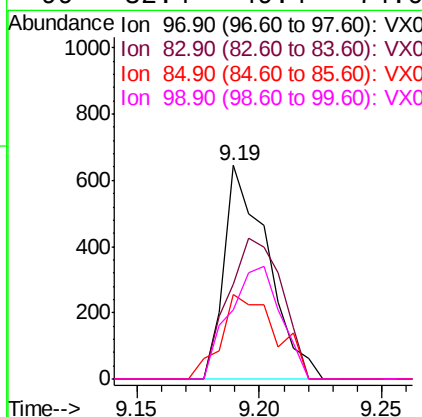
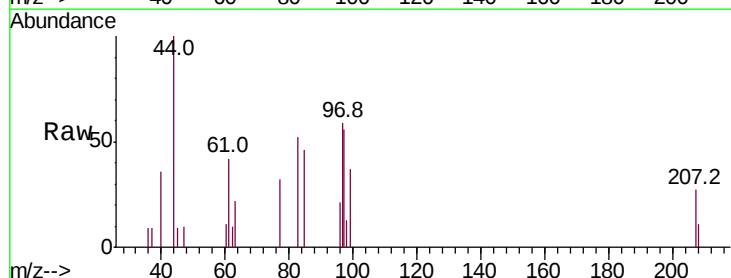
Instrument :
MSVOA_X
ClientSampleId :
BP-TT-MW179D2-GW-20201016

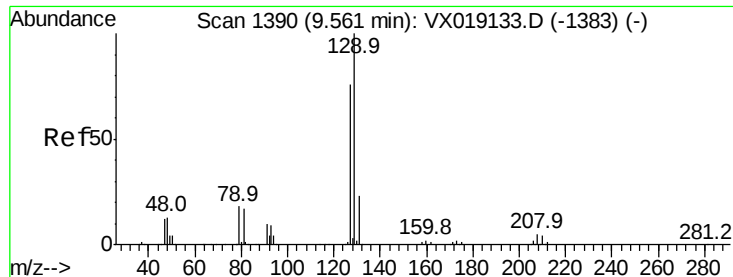
Tot Ion: 98 Resp: 680788
Ion Ratio Lower Upper
98 100
100 65.4 53.0 79.6



#55
1,1,2-Trichloroethane
Concen: 0.219 ug/l
RT: 9.19 min Scan# 1329
Delta R.T. -0.01 min
Lab File: VX019145.D
Acq: 27 Oct 2020 18:40

Tgt Ion: 97 Resp: 804
Ion Ratio Lower Upper
97 100
83 44.7 67.2 100.8#
85 39.7 44.6 67.0#
99 32.4 49.4 74.0#





#60

Dibromochloromethane

Concen: 11.409 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.24 min

Lab File: VX019145.D

Acq: 27 Oct 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

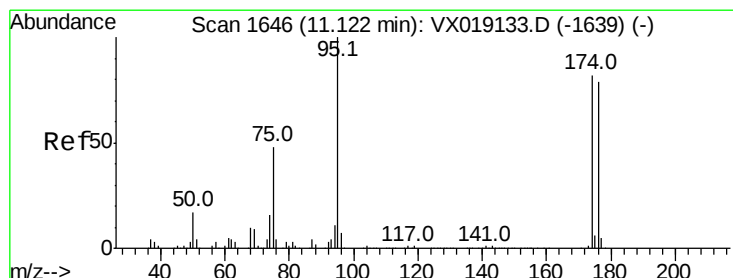
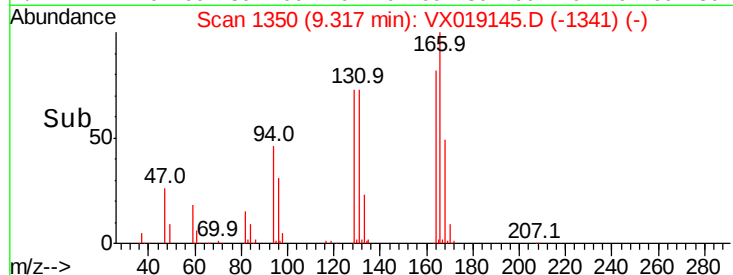
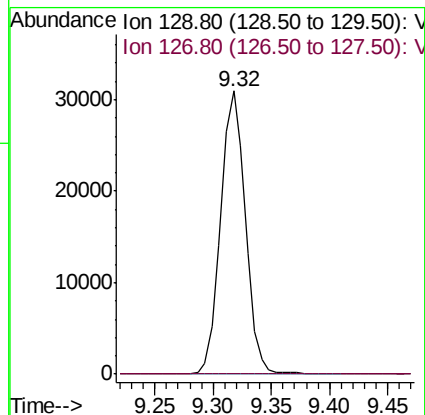
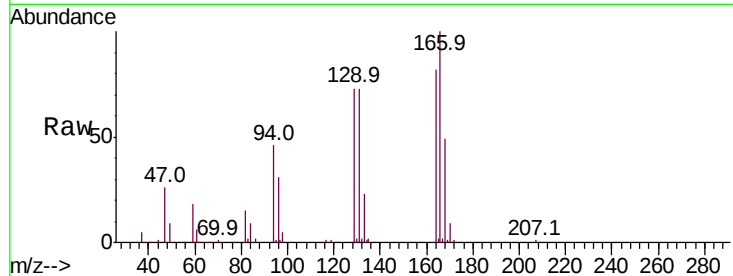
BP-TT-MW179D2-GW-20201016

Tot Ion:129 Resp: 45428

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#



#62

4-Bromofluorobenzene

Concen: 54.289 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019145.D

Acq: 27 Oct 2020 18:40

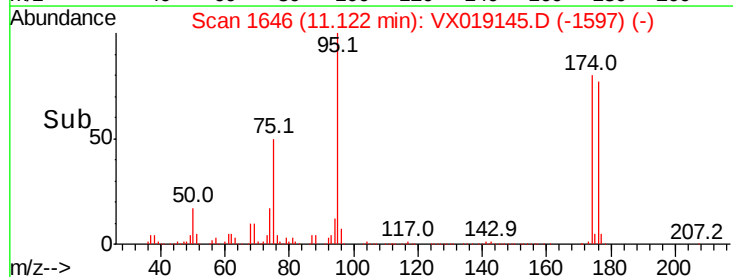
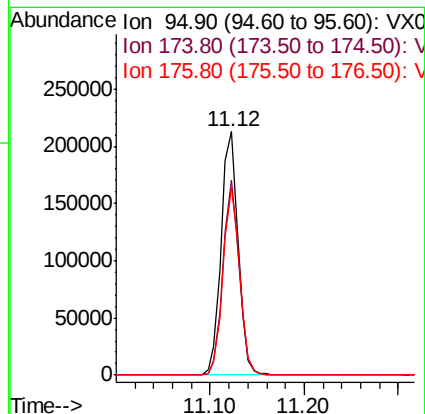
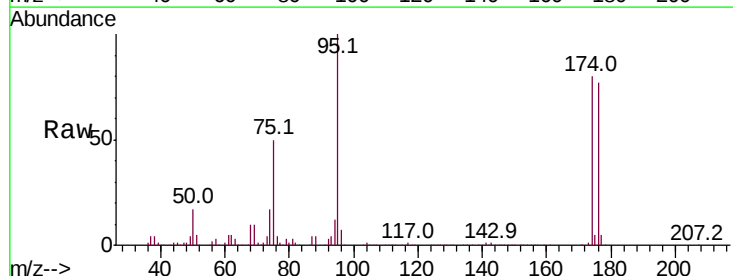
Tgt Ion: 95 Resp: 268070

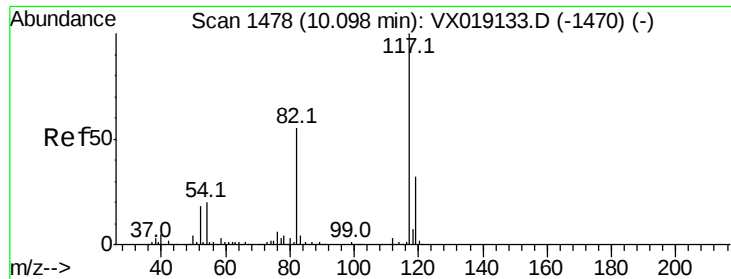
Ion Ratio Lower Upper

95 100

174 76.3 0.0 156.0

176 74.9 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: VX019145.D

Acq: 27 Oct 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW179D2-GW-20201016

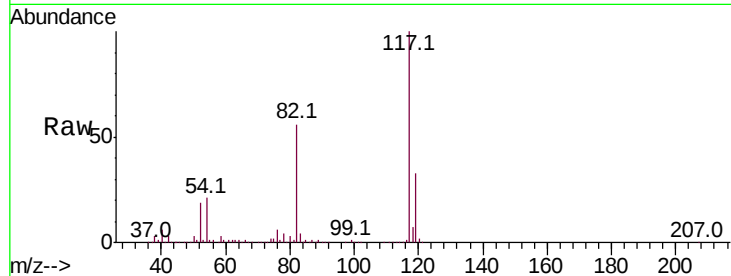
Tot Ion:117 Resp: 529653

Ion Ratio Lower Upper

117 100

82 55.8 43.6 65.4

119 33.2 25.5 38.3

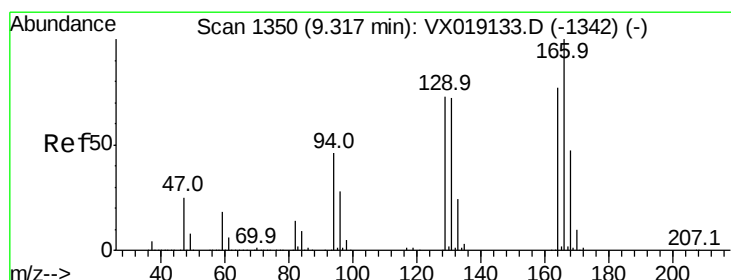
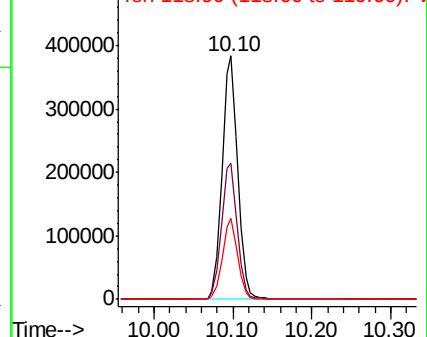
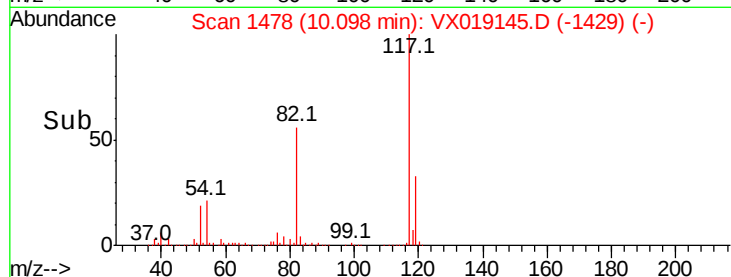


Abundance

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: 11.966 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. 0.00 min

Lab File: VX019145.D

Acq: 27 Oct 2020 18:40

Tgt Ion:164 Resp: 48286

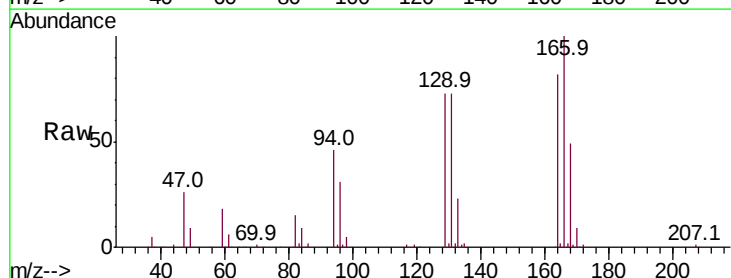
Ion Ratio Lower Upper

164 100

166 122.5 104.1 156.1

129 89.5 76.2 114.4

131 89.5 74.6 112.0



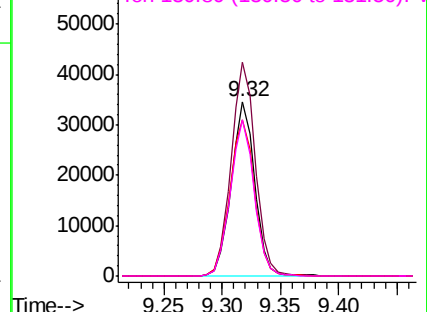
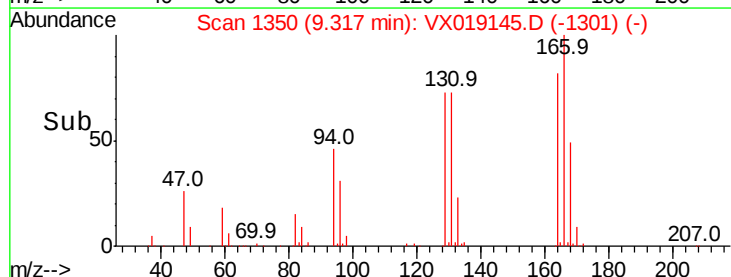
Abundance

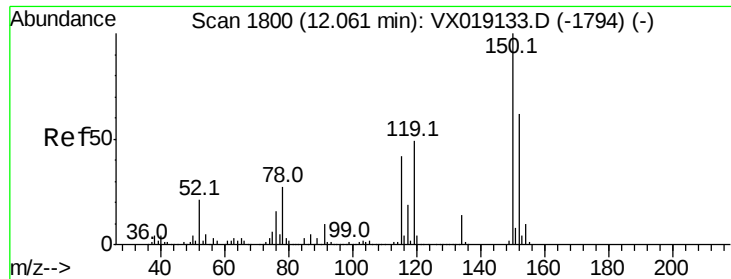
Ion 163.80 (163.50 to 164.50): V

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: VX019145.D

Acq: 27 Oct 2020 18:40

Instrument :

MSVOA_X

ClientSampleId :

BP-TT-MW179D2-GW-20201016

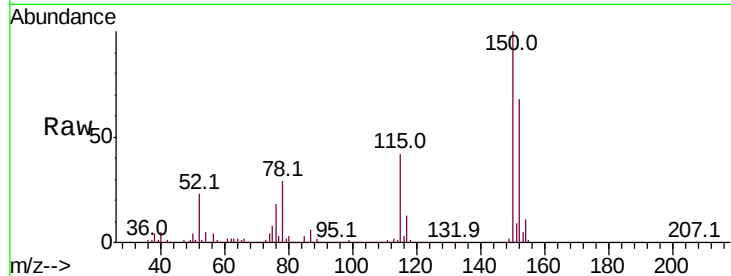
Tot Ion:152 Resp: 269154

Ion Ratio Lower Upper

152 100

115 61.5 41.9 125.7

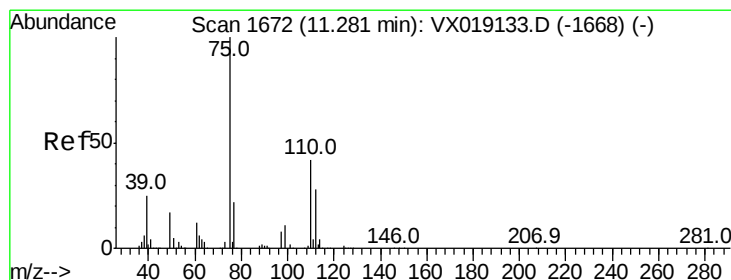
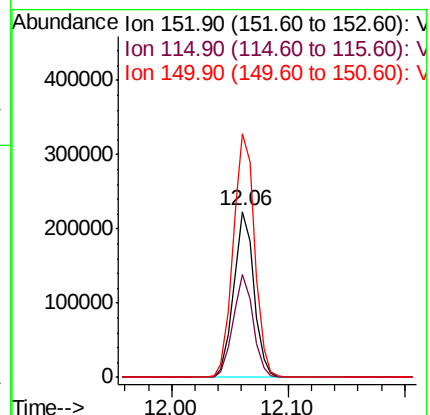
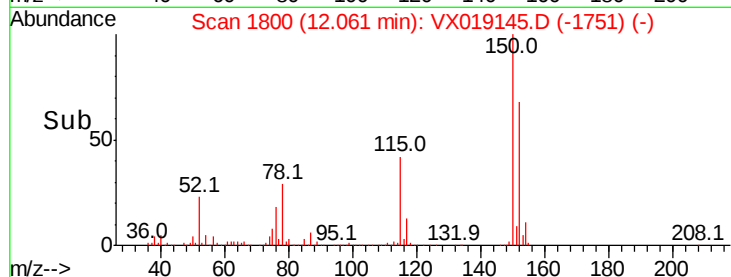
150 156.4 0.0 347.8



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: 24.532 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019145.D

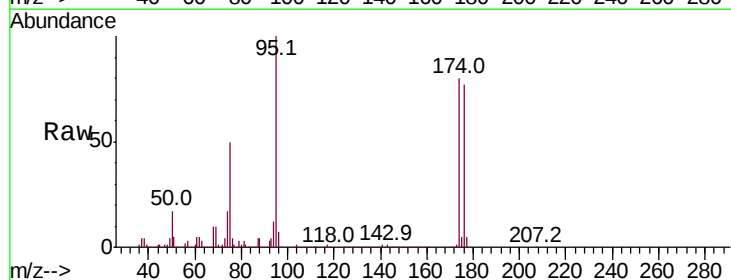
Acq: 27 Oct 2020 18:40

Tgt Ion: 75 Resp: 136335

Ion Ratio Lower Upper

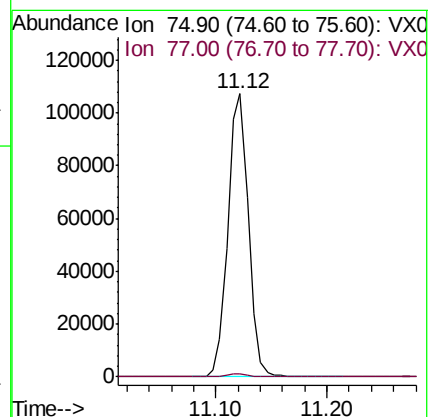
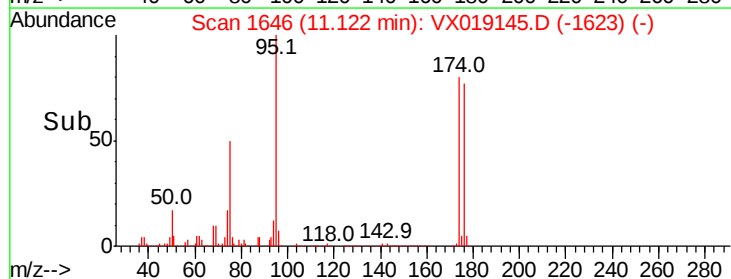
75 100

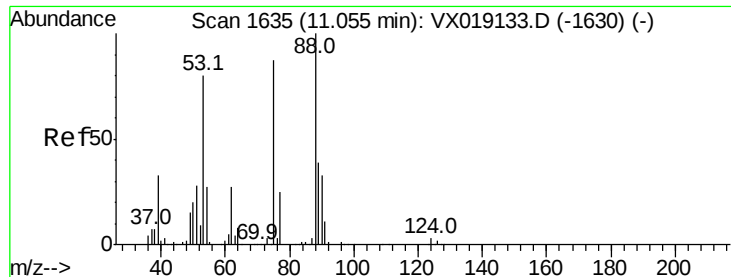
77 1.1 20.3 60.9#



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: 64.592 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.07 min
 Lab File: VX019145.D
 Acq: 27 Oct 2020 18:40

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-TT-MW179D2-GW-20201016

Tot Ion: 75 Resp: 136335
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.3 109.9#
 89 0.0 38.2 57.2#

