

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110720\
 Data File : VX019343.D
 Acq On : 06 Nov 2020 15:43
 Operator : JC/MD
 Sample : L4662-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB178-GW-338-340

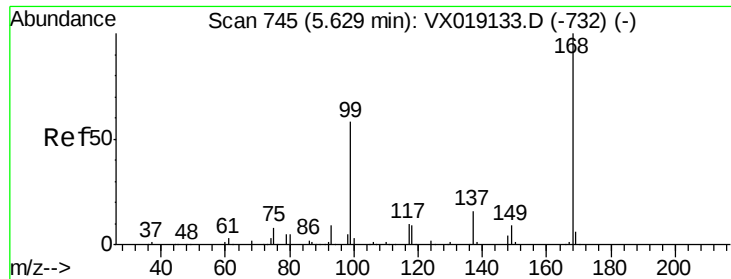
Quant Time: Nov 07 01:04:59 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 13:55:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	303139	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	522783	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	503747	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	251778	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	211485	54.10	ug/l	0.00
Spiked Amount			Recovery	=	108.20%	
35) Dibromofluoromethane	5.46	113	165653	50.45	ug/l	0.00
Spiked Amount			Recovery	=	100.90%	
50) Toluene-d8	8.70	98	645158	52.12	ug/l	0.00
Spiked Amount			Recovery	=	104.24%	
62) 4-Bromofluorobenzene	11.12	95	250888	53.52	ug/l	0.00
Spiked Amount			Recovery	=	107.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	2.36	96	1893	0.644	ug/l	97
13) Acrolein	2.27	56	82	5.880	ug/l #	16
15) Acrylonitrile	3.16	53	692	0.426	ug/l #	28
16) Acetone	2.42	43	4046	3.000	ug/l	97
17) Carbon Disulfide	2.55	76	542	0.824	ug/l #	66
19) Methyl tert-butyl Ether	3.17	73	58568	5.753	ug/l	96
24) 1,1-Dichloroethane	3.67	63	12729	2.298	ug/l	100
27) cis-1,2-Dichloroethene	4.56	96	3210	0.850	ug/l	90
29) Tetrahydrofuran	5.10	42	1159	0.865	ug/l #	68
31) Cyclohexane	5.63	56	6601	1.336	ug/l #	1
32) 1,1,1-Trichloroethane	5.48	97	1080	0.202	ug/l #	49
36) 1,1-Dichloropropene	5.63	75	24253	5.024	ug/l #	50
38) Carbon Tetrachloride	5.63	117	31857	6.474	ug/l #	16
42) 1,2-Dichloroethane	6.16	62	2139	0.424	ug/l	95
44) Trichloroethene	7.19	130	75280	19.204	ug/l	97
45) 1,2-Dichloropropane	7.49	63	43368	12.936	ug/l	98
48) Methyl methacrylate	7.49	41	24298	6.726	ug/l #	33
49) 1,4-Dioxane	7.73	88	64	0.797	ug/l #	1
60) Dibromochloromethane	9.32	129	4315	1.141	ug/l #	11
64) Tetrachloroethene	9.32	164	4398	1.146	ug/l	96
76) 1,2,3-Trichloropropane	11.28	75	4635	0.892	ug/l	87
81) trans-1,4-Dichloro-2-buten	11.12	75	130539	66.114	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX019343.D

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Instrument :

MSVOA_X

ClientSampleId :

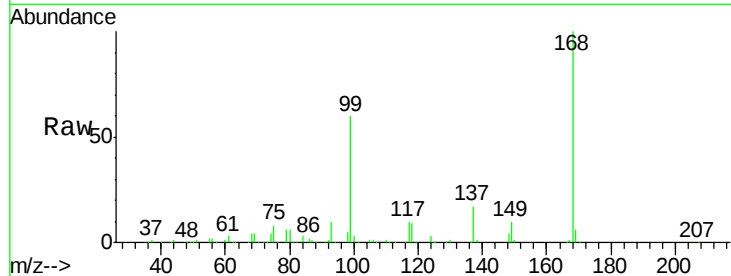
BP-VPB178-GW-338-340

Tot Ion:168 Resp: 303139

Ion Ratio Lower Upper

168 100

99 60.0 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

120000

100000

80000

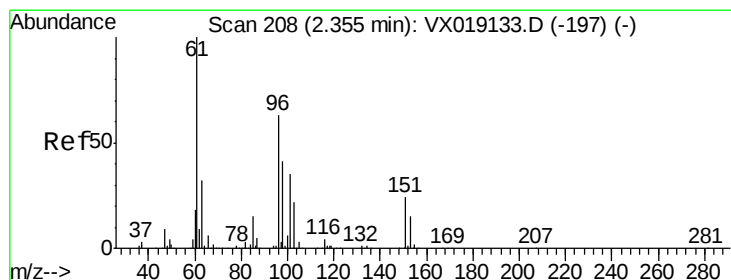
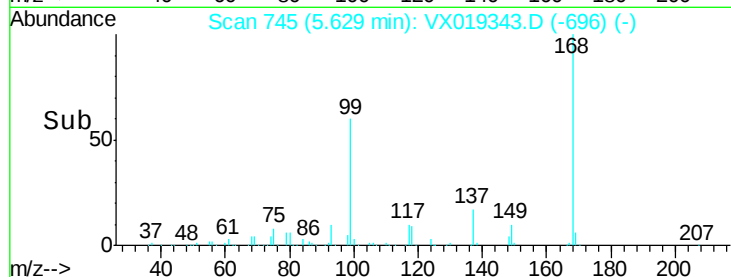
60000

40000

20000

0

Time-->



#12

1,1-Dichloroethene

Concen: 0.644 ug/l

RT: 2.36 min Scan# 208

Delta R.T. -0.00 min

Lab File: VX019343.D

Acq: 06 Nov 2020 15:43

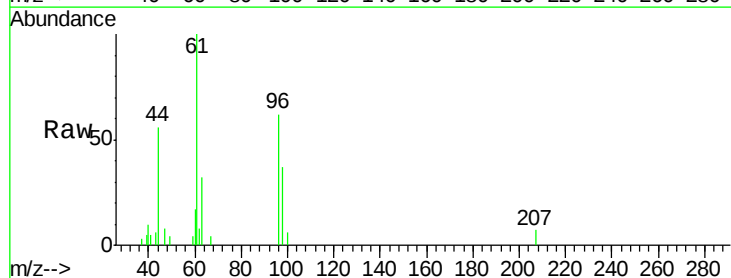
Tgt Ion: 96 Resp: 1893

Ion Ratio Lower Upper

96 100

61 162.2 127.7 191.5

98 60.6 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

2500

2000

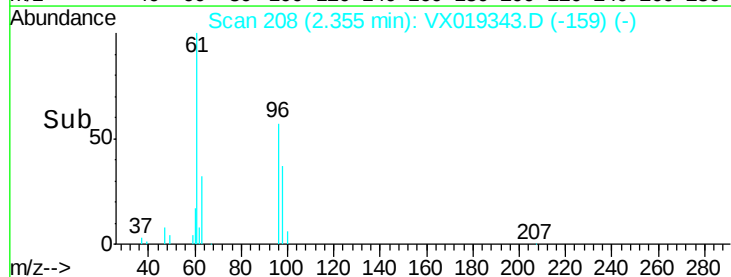
1500

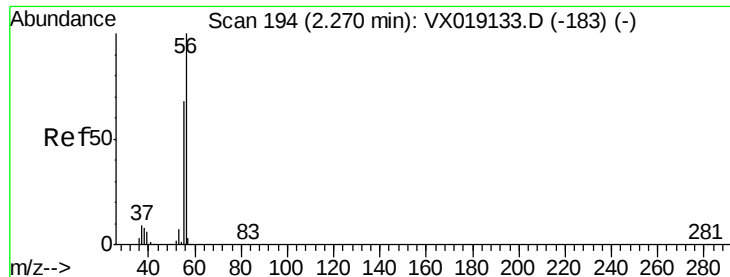
1000

500

0

Time-->





#13

Acrolein

Concen: 5.880 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX019343.D

Acq: 06 Nov 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

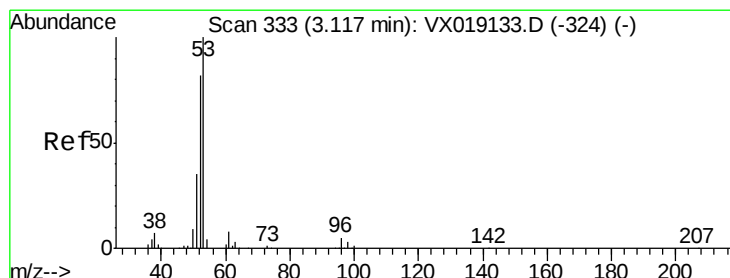
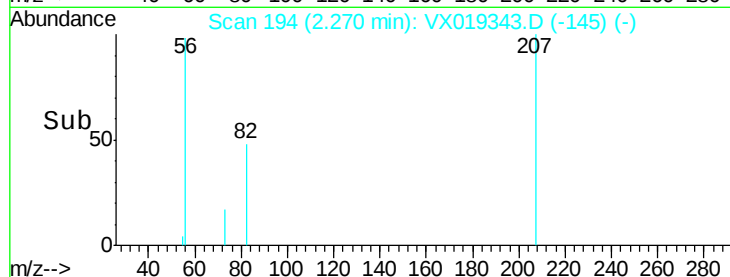
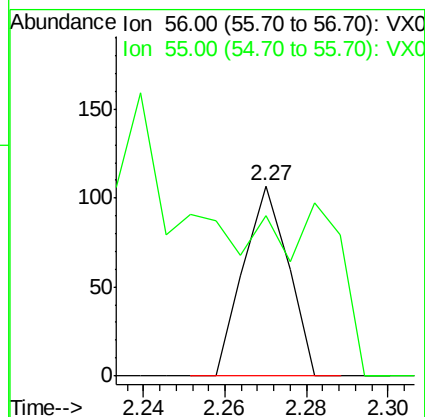
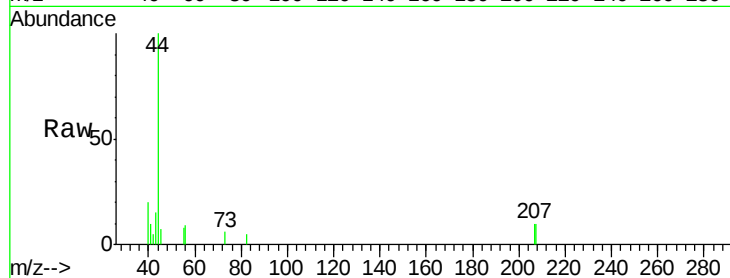
BP-VPB178-GW-338-340

Tot Ion: 56 Resp: 82

Ion Ratio Lower Upper

56 100

55 0.0 54.7 82.1#



#15

Acrylonitrile

Concen: 0.426 ug/l

RT: 3.16 min Scan# 340

Delta R.T. 0.04 min

Lab File: VX019343.D

Acq: 06 Nov 2020 15:43

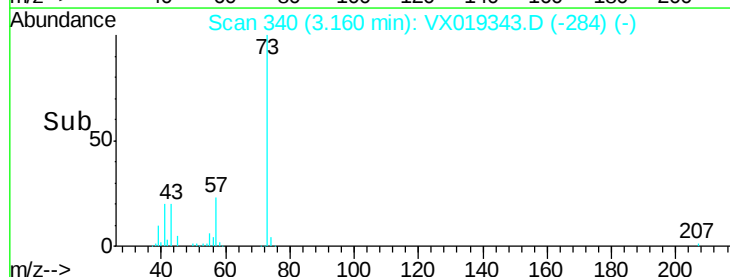
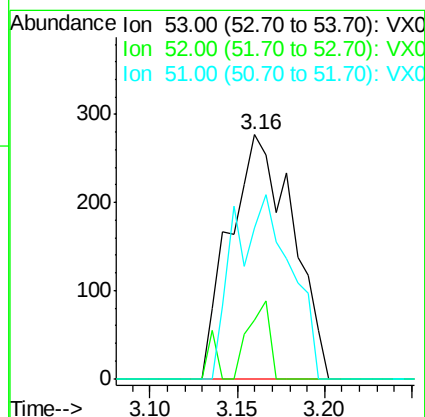
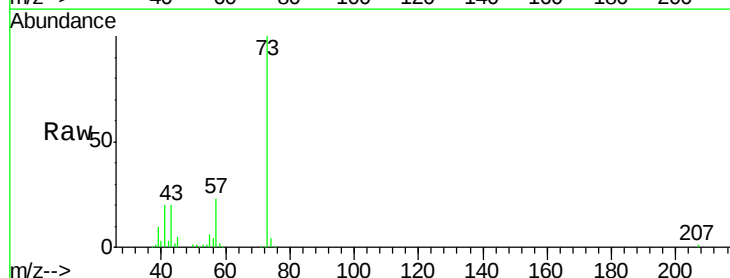
Tgt Ion: 53 Resp: 692

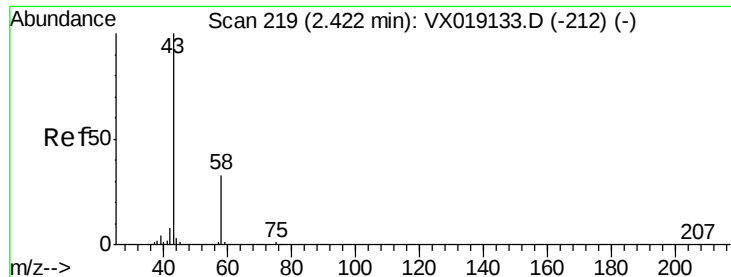
Ion Ratio Lower Upper

53 100

52 10.8 65.7 98.5#

51 67.8 28.4 42.6#





#16

Acetone

Concen: 3.000 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019343.D

Acq: 06 Nov 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

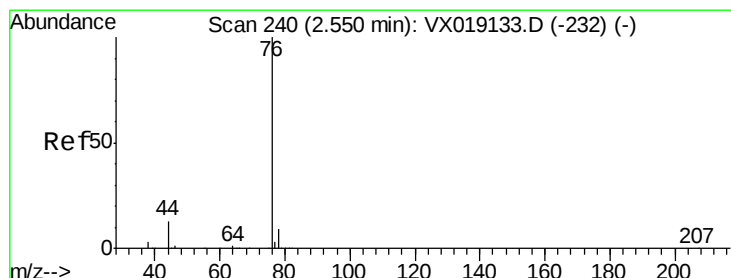
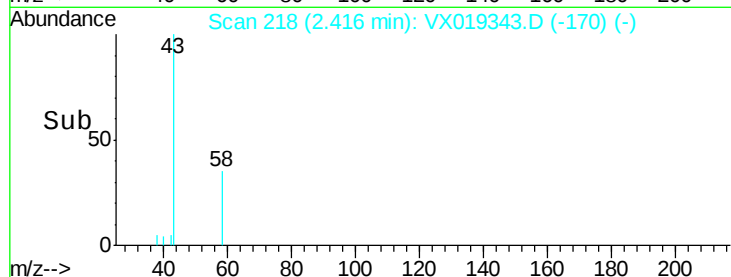
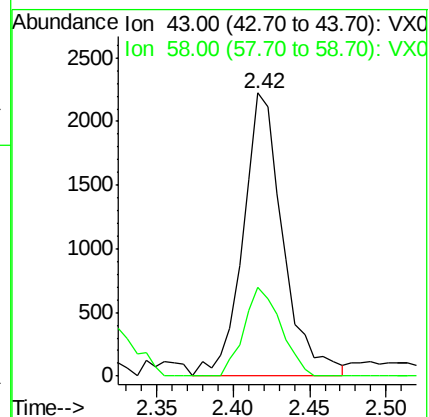
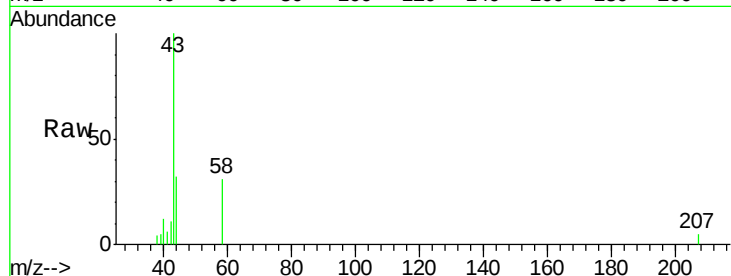
BP-VPB178-GW-338-340

Tot Ion: 43 Resp: 4046

Ion Ratio Lower Upper

43 100

58 31.4 26.3 39.5



#17

Carbon Disulfide

Concen: 0.824 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019343.D

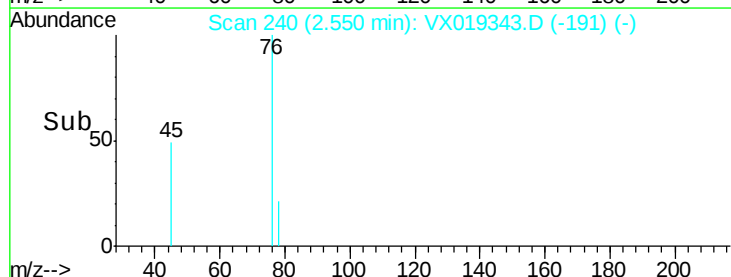
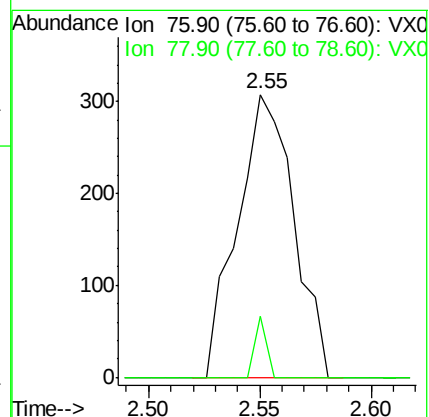
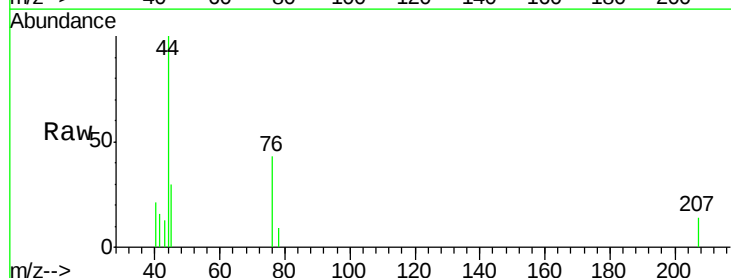
Acq: 06 Nov 2020 15:43

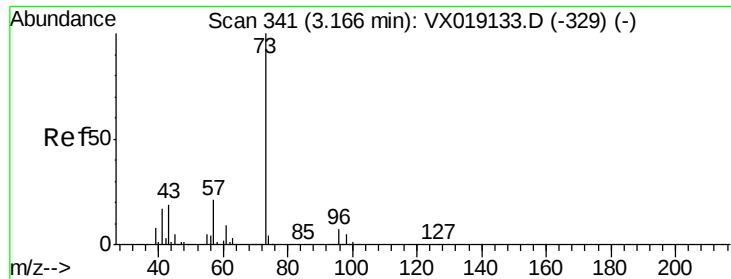
Tgt Ion: 76 Resp: 542

Ion Ratio Lower Upper

76 100

78 21.4 7.3 10.9#

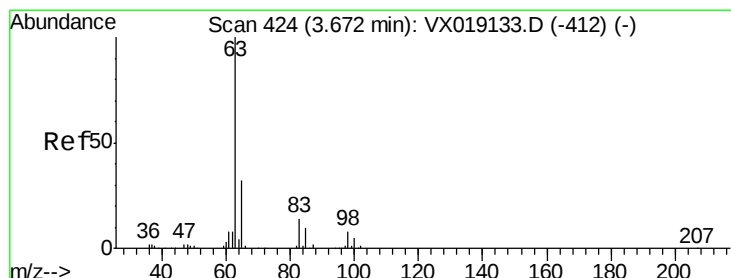
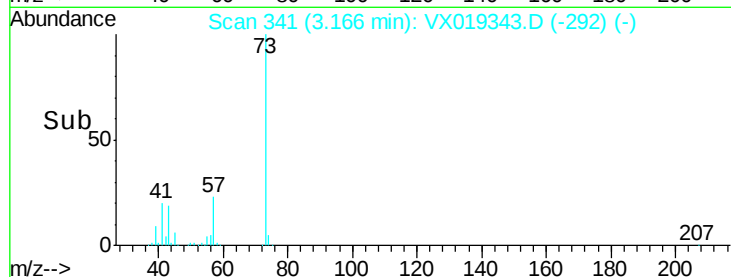
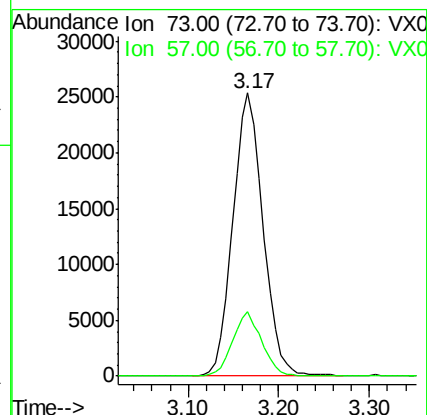
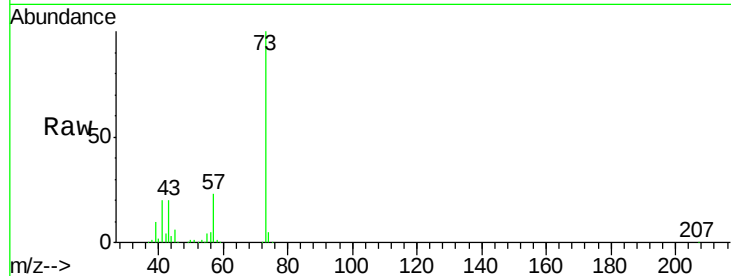




#19
Methvl tert-butvl Ether
Concen: 5.753 ug/l
RT: 3.17 min Scan# 341
Delta R.T. -0.00 min
Lab File: VX019343.D
Acq: 06 Nov 2020 15:43

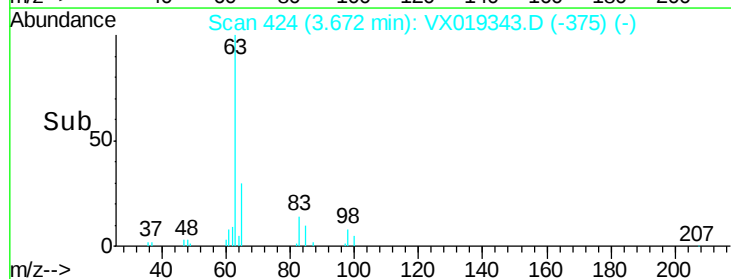
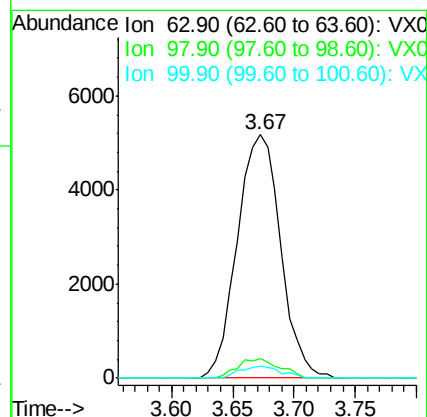
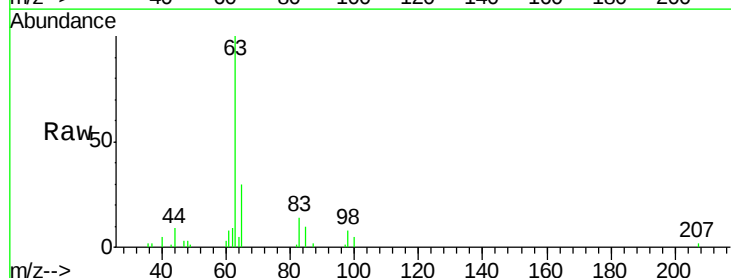
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB178-GW-338-340

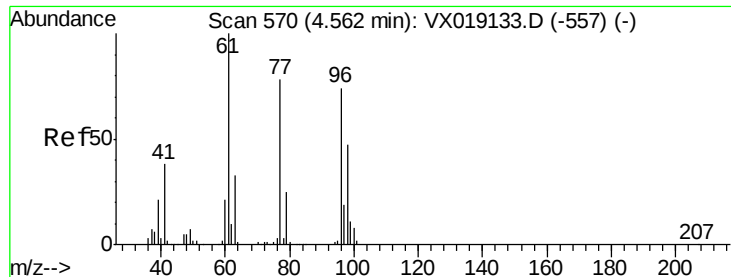
Tot Ion: 73 Resp: 58568
Ion Ratio Lower Upper
73 100
57 22.8 16.6 25.0



#24
1,1-Dichloroethane
Concen: 2.298 ug/l
RT: 3.67 min Scan# 424
Delta R.T. 0.00 min
Lab File: VX019343.D
Acq: 06 Nov 2020 15:43

Tgt Ion: 63 Resp: 12729
Ion Ratio Lower Upper
63 100
98 7.8 3.8 11.4
100 4.8 2.4 7.2



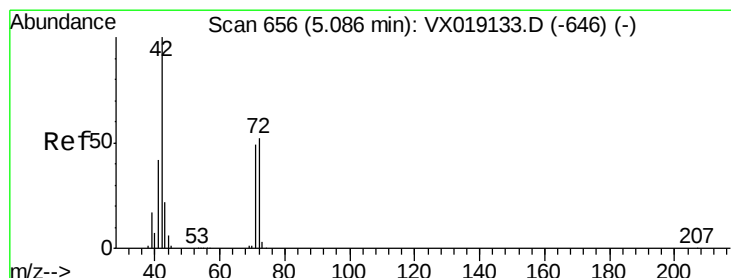
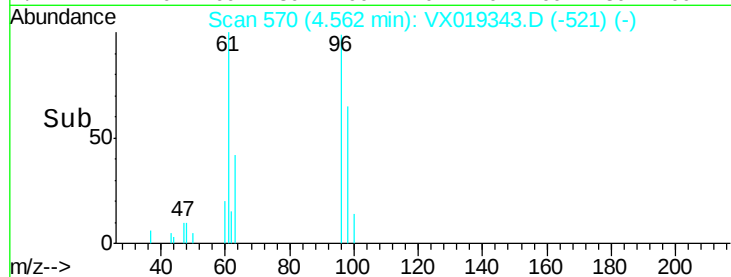
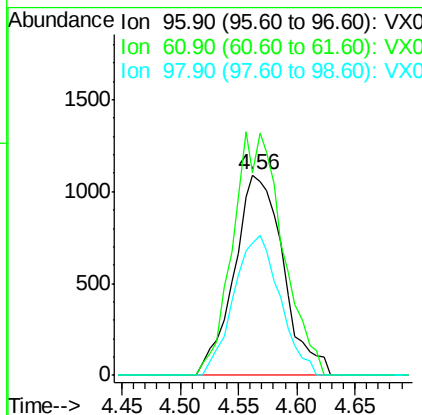
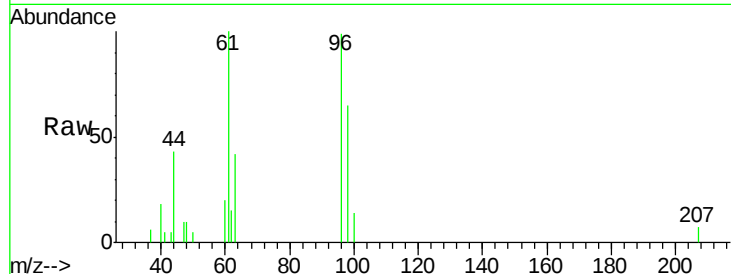


#27

cis-1,2-Dichloroethene
 Concen: 0.850 ug/l
 RT: 4.56 min Scan# 570
 Delta R.T. 0.00 min
 Lab File: VX019343.D
 Acq: 06 Nov 2020 15:43

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB178-GW-338-340

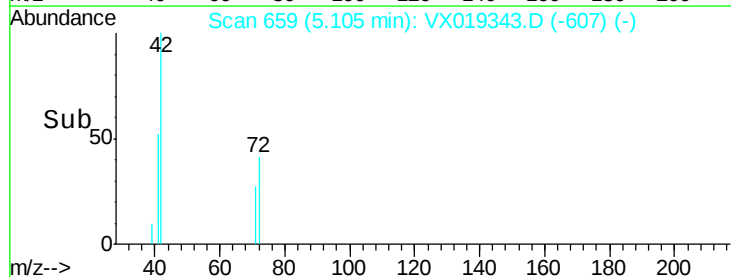
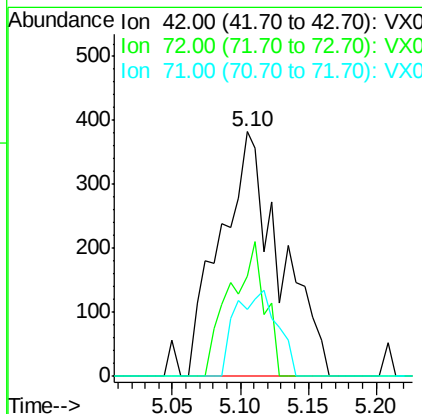
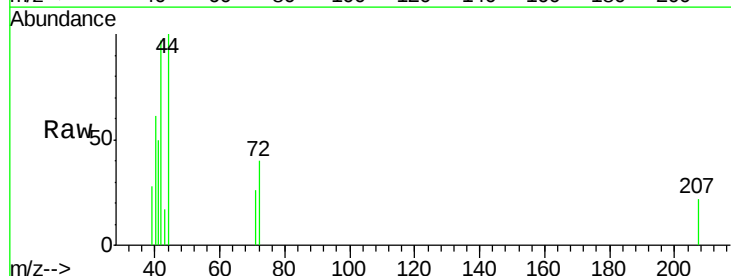
Tot Ion: 96 Resp: 3210
 Ion Ratio Lower Upper
 96 100
 61 122.5 0.0 278.8
 98 65.3 0.0 130.2

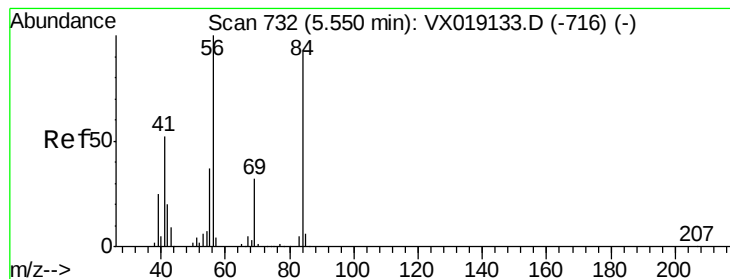


#29

Tetrahydrofuran
 Concen: 0.865 ug/l
 RT: 5.10 min Scan# 659
 Delta R.T. 0.02 min
 Lab File: VX019343.D
 Acq: 06 Nov 2020 15:43

Tgt Ion: 42 Resp: 1159
 Ion Ratio Lower Upper
 42 100
 72 32.6 42.6 63.8#
 71 24.8 39.7 59.5#





#31

Cyclohexane

Concen: 1.336 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX019343.D

Acq: 06 Nov 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-GW-338-340

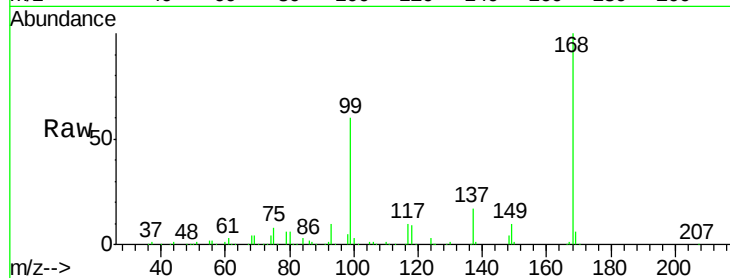
Tot Ion: 56 Resp: 6601

Ion Ratio Lower Upper

56 100

69 184.0 25.9 38.9#

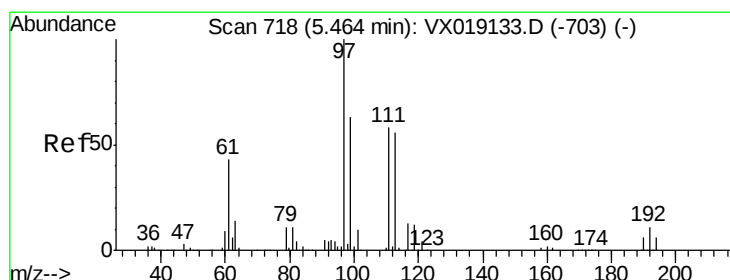
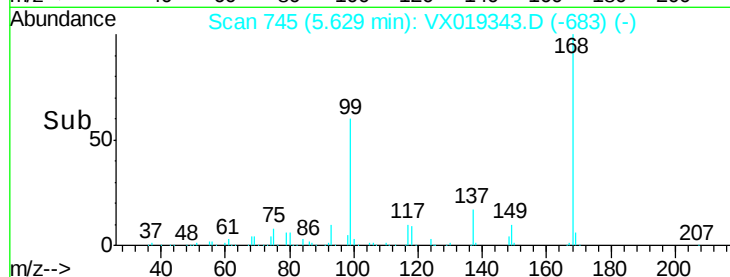
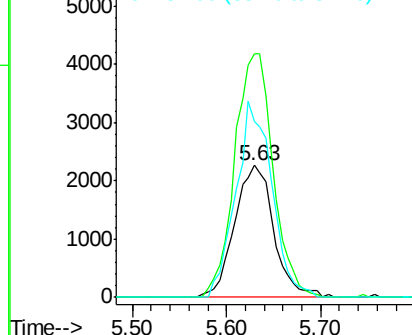
84 133.0 73.4 110.2#



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: 0.202 ug/l

RT: 5.48 min Scan# 720

Delta R.T. 0.01 min

Lab File: VX019343.D

Acq: 06 Nov 2020 15:43

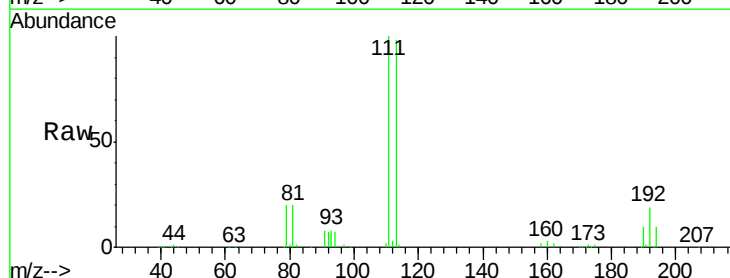
Tgt Ion: 97 Resp: 1080

Ion Ratio Lower Upper

97 100

99 0.0 51.7 77.5#

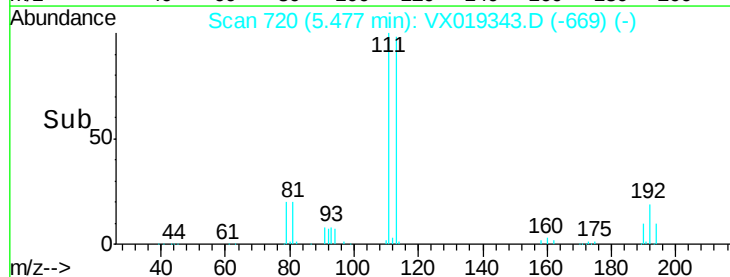
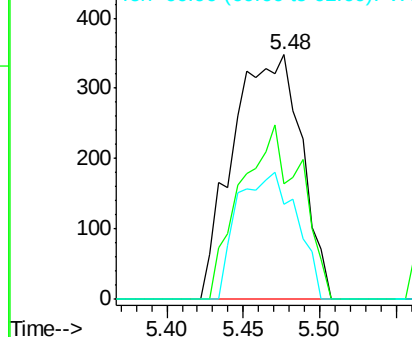
61 44.4 34.2 51.2

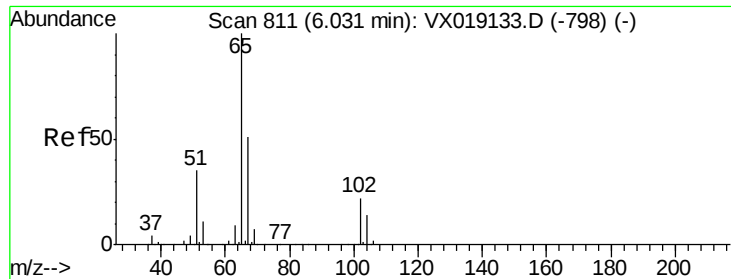


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 54.097 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX019343.D

Acq: 06 Nov 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

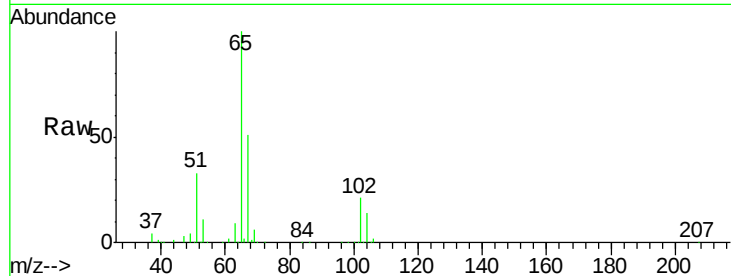
BP-VPB178-GW-338-340

Tot Ion: 65 Resp: 211485

Ion Ratio Lower Upper

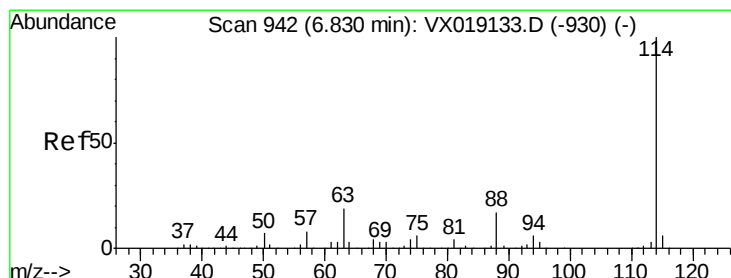
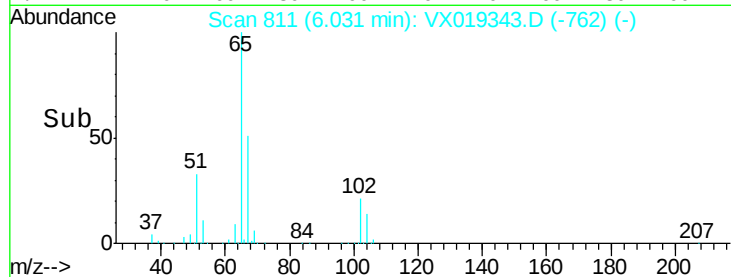
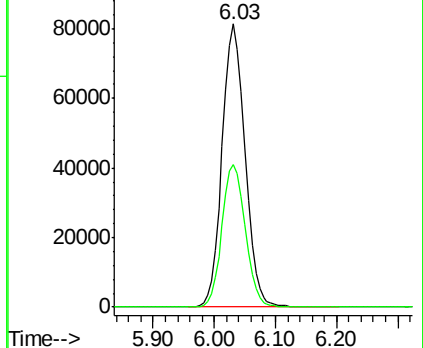
65 100

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: VX019343.D

Acq: 06 Nov 2020 15:43

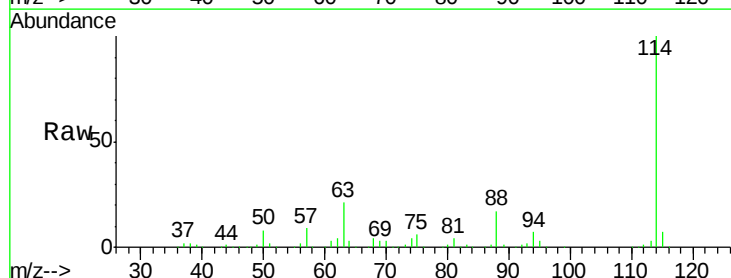
Tgt Ion: 114 Resp: 522783

Ion Ratio Lower Upper

114 100

63 21.5 0.0 38.8

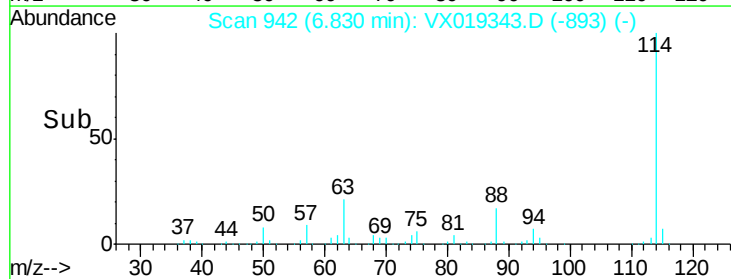
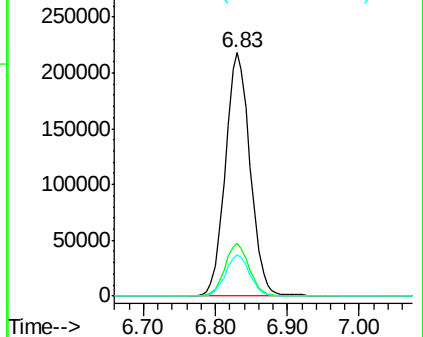
88 16.8 0.0 34.2

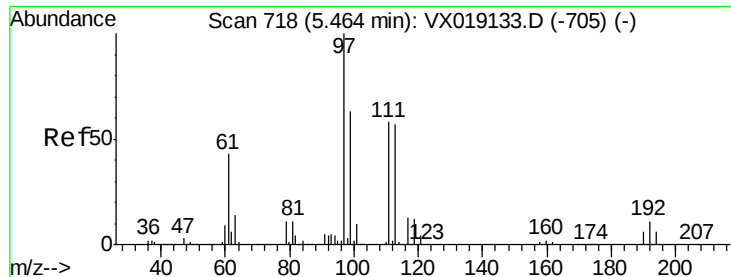


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.446 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019343.D

Acq: 06 Nov 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-GW-338-340

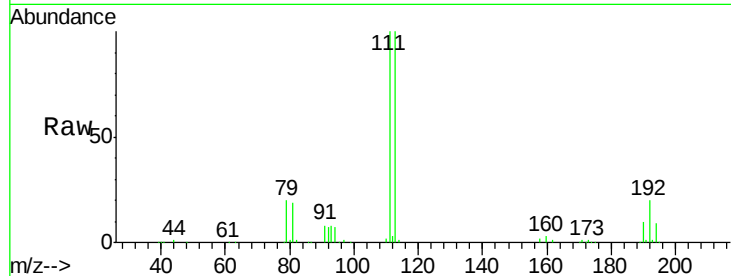
Tot Ion:113 Resp: 165653

Ion Ratio Lower Upper

113 100

111 102.5 82.3 123.5

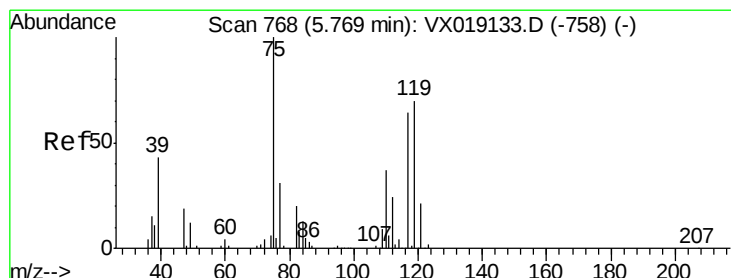
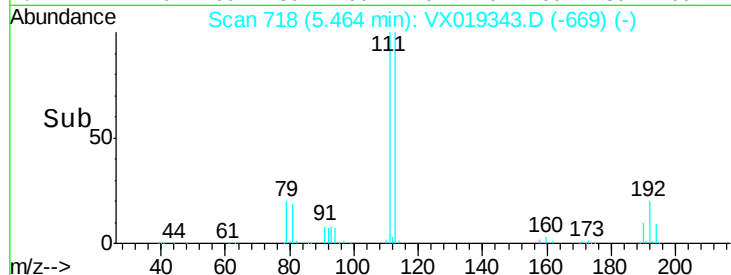
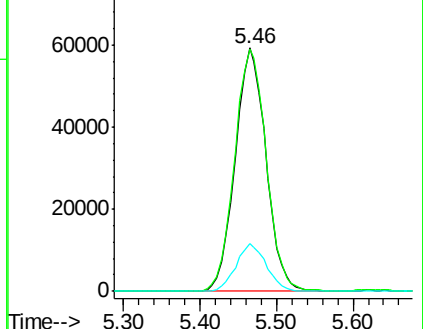
192 19.5 16.2 24.2



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: 5.024 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX019343.D

Acq: 06 Nov 2020 15:43

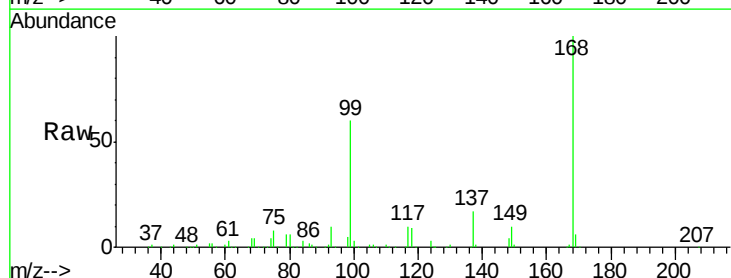
Tgt Ion: 75 Resp: 24253

Ion Ratio Lower Upper

75 100

110 10.1 18.3 54.9#

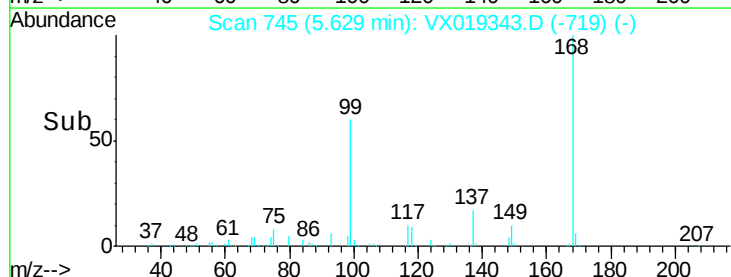
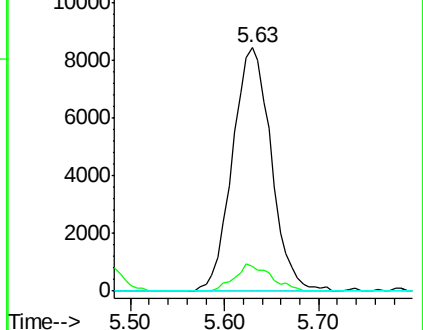
77 0.0 24.9 37.3#

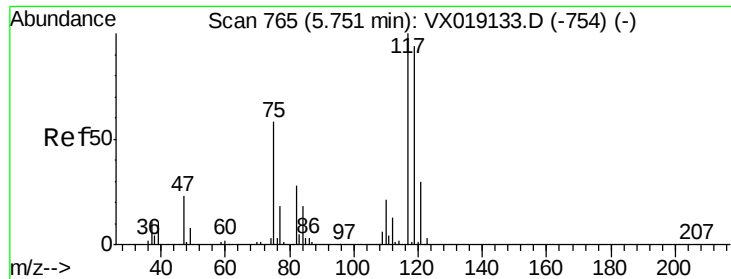


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.474 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019343.D

Acq: 06 Nov 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-GW-338-340

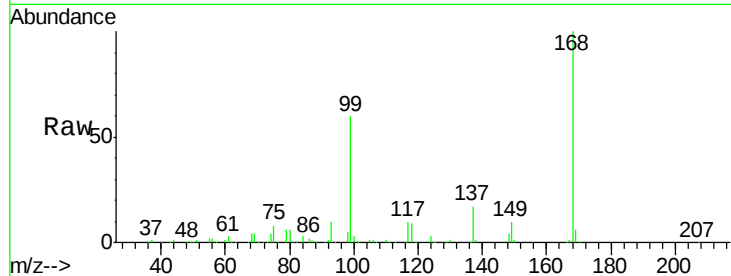
Tot Ion:117 Resp: 31857

Ion Ratio Lower Upper

117 100

119 4.3 75.0 112.6#

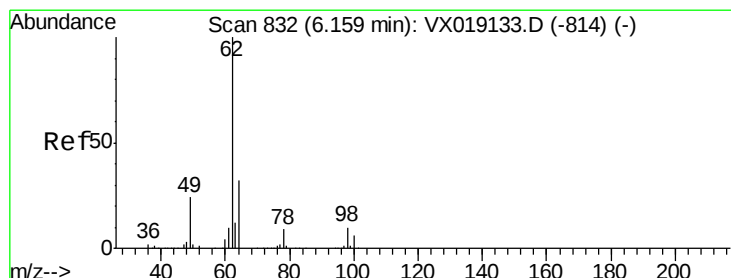
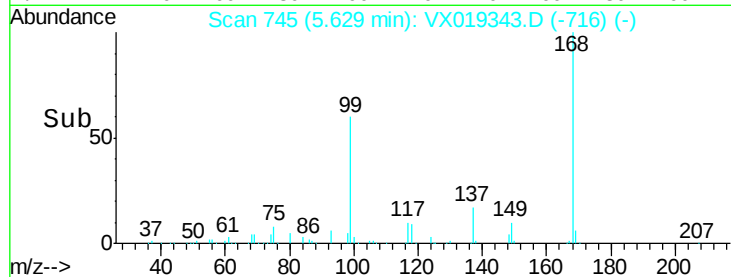
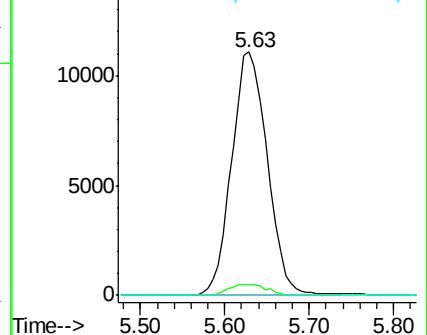
121 0.0 23.9 35.9#



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



#42

1,2-Dichloroethane

Concen: 0.424 ug/l

RT: 6.16 min Scan# 832

Delta R.T. -0.00 min

Lab File: VX019343.D

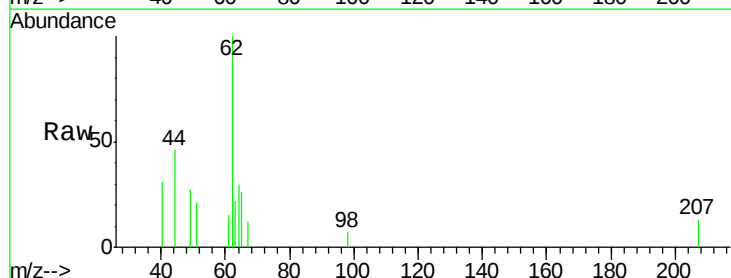
Acq: 06 Nov 2020 15:43

Tgt Ion: 62 Resp: 2139

Ion Ratio Lower Upper

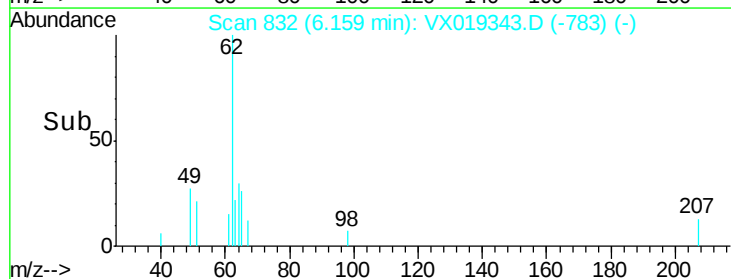
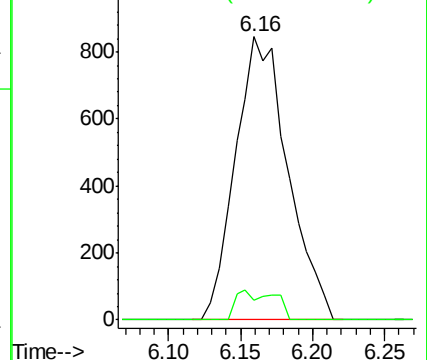
62 100

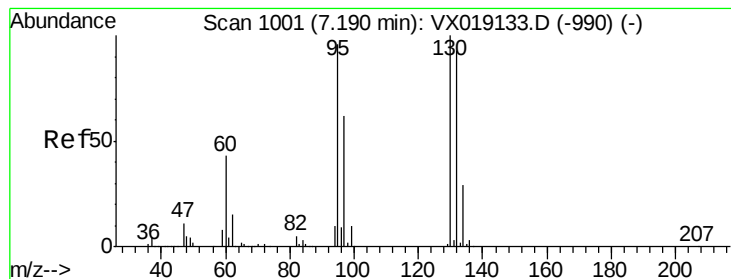
98 7.7 0.0 19.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#44

Trichloroethene

Concen: 19.204 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX019343.D

Acq: 06 Nov 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

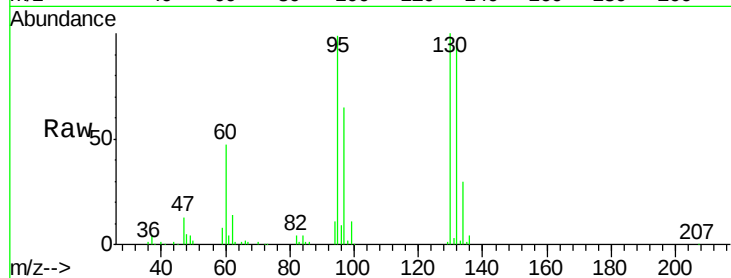
BP-VPB178-GW-338-340

Tot Ion:130 Resp: 75280

Ion Ratio Lower Upper

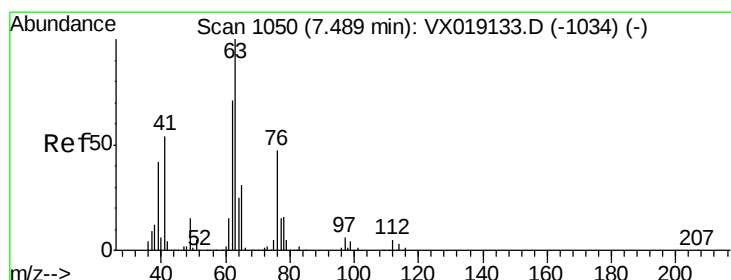
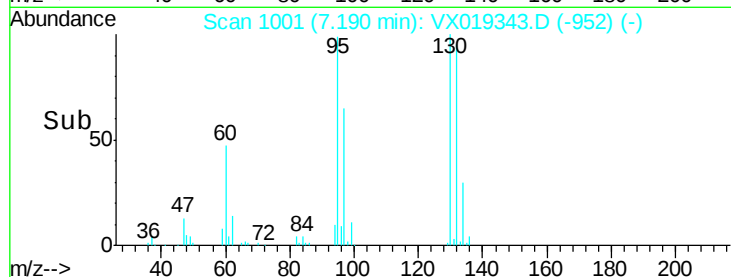
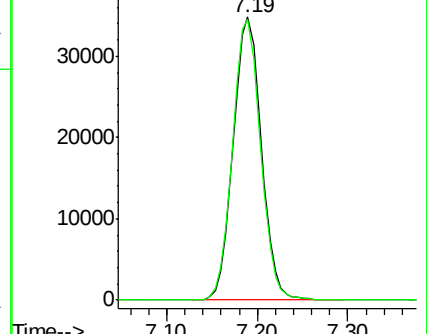
130 100

95 99.2 0.0 192.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#45

1,2-Dichloropropane

Concen: 12.936 ug/l

RT: 7.49 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VX019343.D

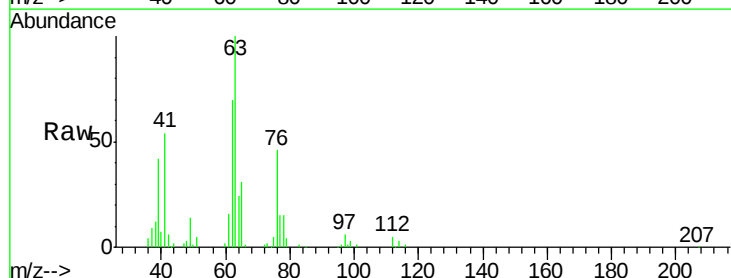
Acq: 06 Nov 2020 15:43

Tgt Ion: 63 Resp: 43368

Ion Ratio Lower Upper

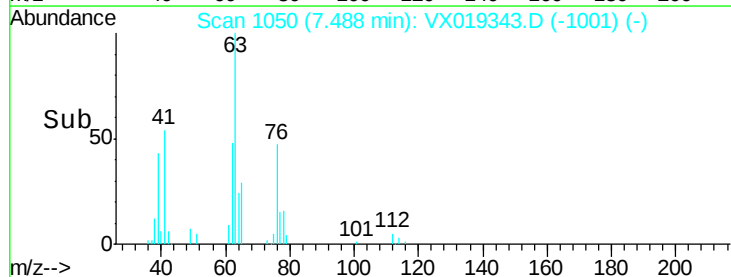
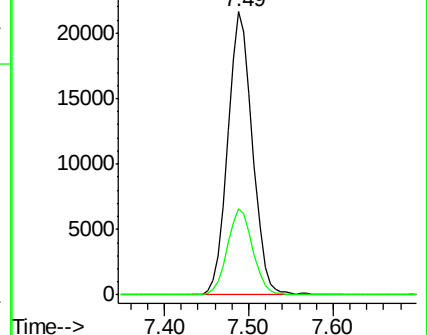
63 100

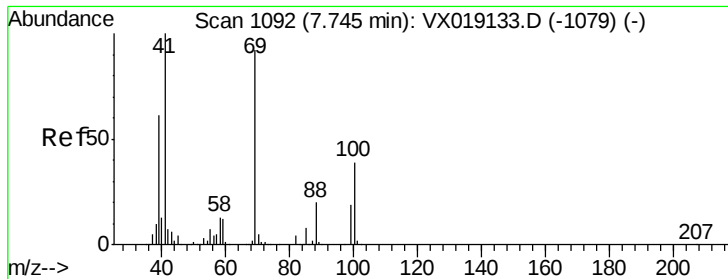
65 30.5 25.2 37.8



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0

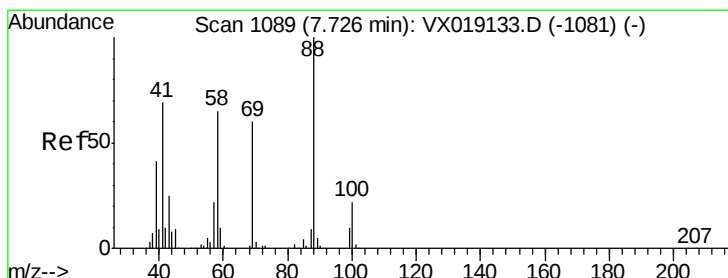
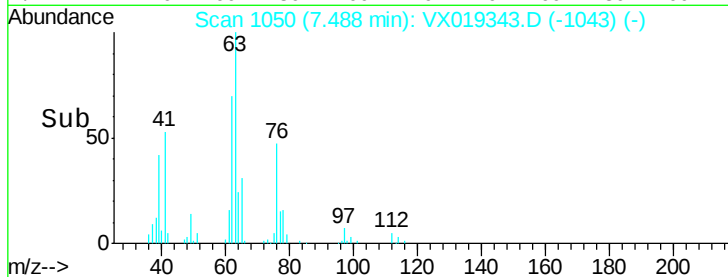
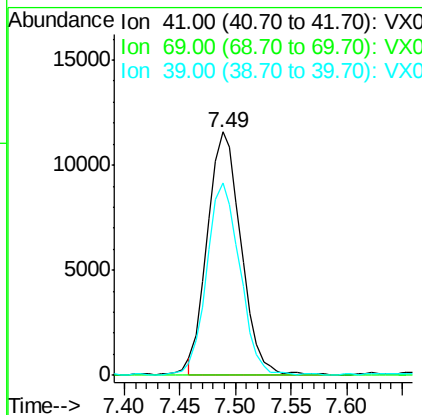
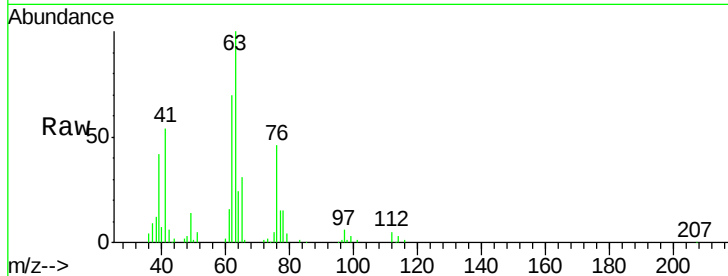




#48
Methvl methacrylate
Concen: 6.726 ug/l
RT: 7.49 min Scan# 1050
Delta R.T. -0.26 min
Lab File: VX019343.D
Acq: 06 Nov 2020 15:43

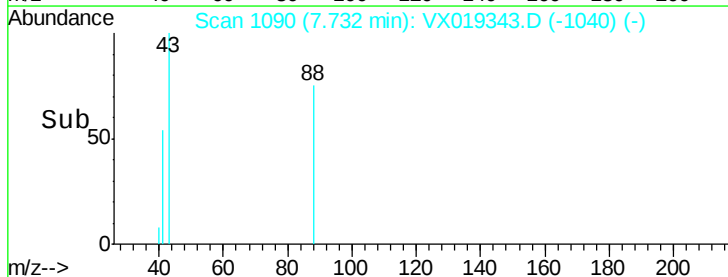
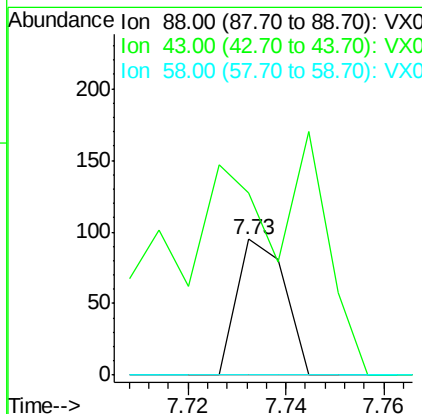
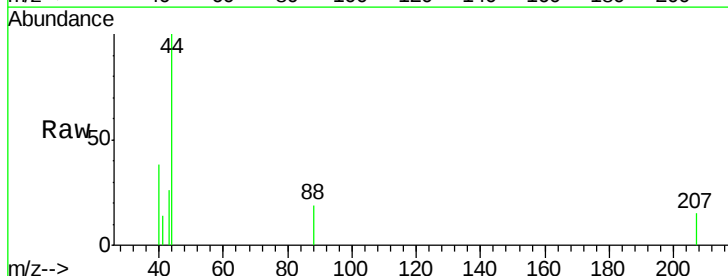
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB178-GW-338-340

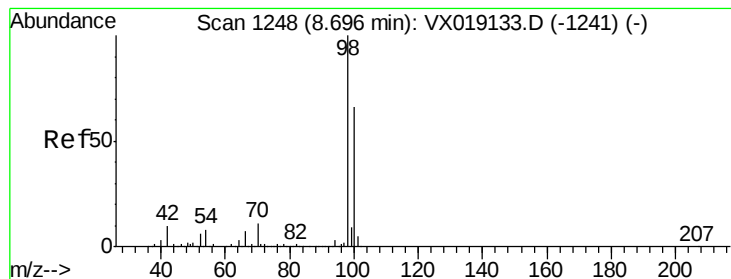
Tot Ion: 41 Resp: 24298
Ion Ratio Lower Upper
41 100
69 0.0 75.5 113.3#
39 76.7 48.9 73.3#



#49
1,4-Dioxane
Concen: 0.797 ug/l
RT: 7.73 min Scan# 1090
Delta R.T. 0.01 min
Lab File: VX019343.D
Acq: 06 Nov 2020 15:43

Tgt Ion: 88 Resp: 64
Ion Ratio Lower Upper
88 100
43 425.0 23.0 34.6#
58 0.0 52.2 78.2#





#50

Toluene-d8

Concen: 52.118 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019343.D

Acq: 06 Nov 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

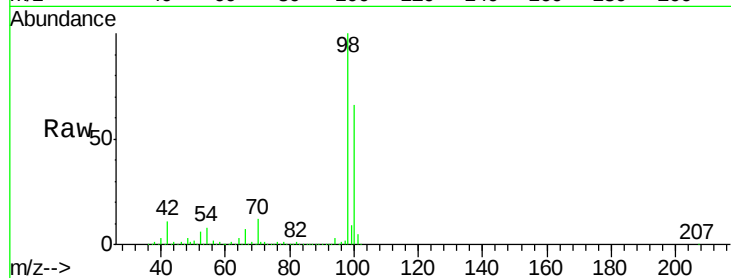
BP-VPB178-GW-338-340

Tot Ion: 98 Resp: 645158

Ion Ratio Lower Upper

98 100

100 66.3 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.70

400000

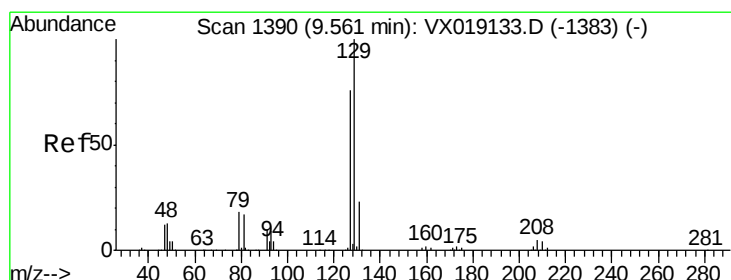
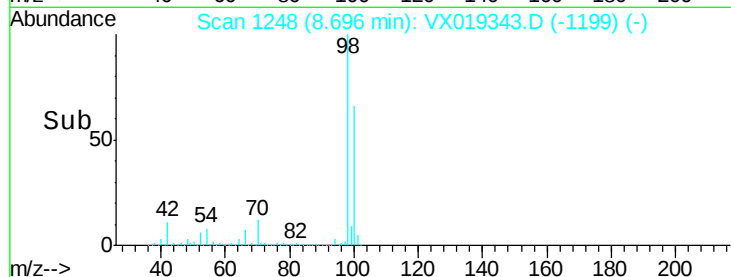
300000

200000

100000

0

Time-->



#60

Dibromochloromethane

Concen: 1.141 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.24 min

Lab File: VX019343.D

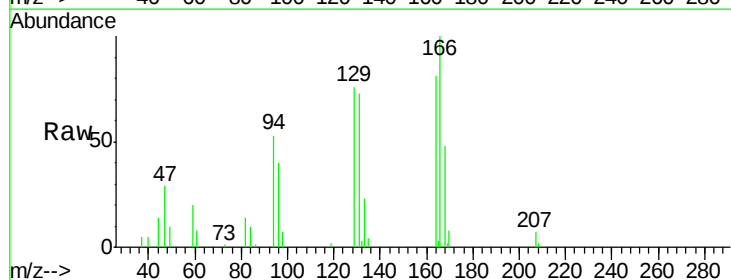
Acq: 06 Nov 2020 15:43

Tgt Ion: 129 Resp: 4315

Ion Ratio Lower Upper

129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.32

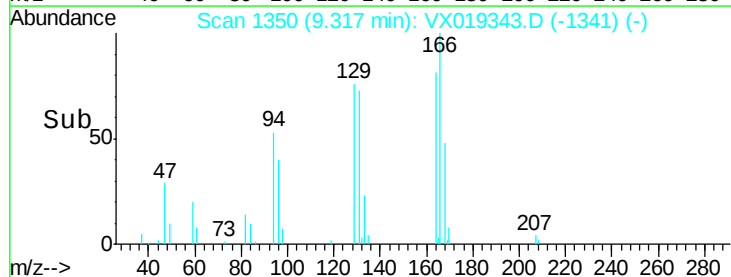
3000

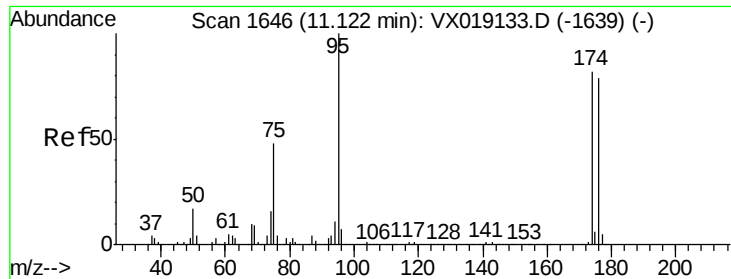
2000

1000

0

Time-->

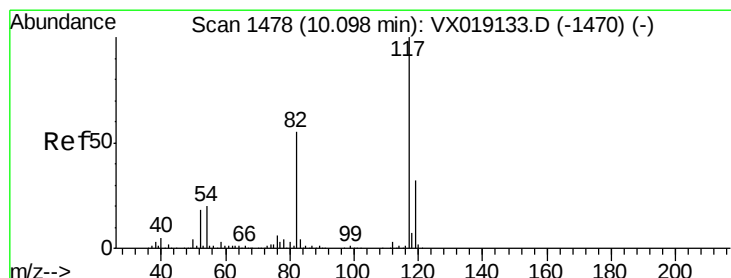
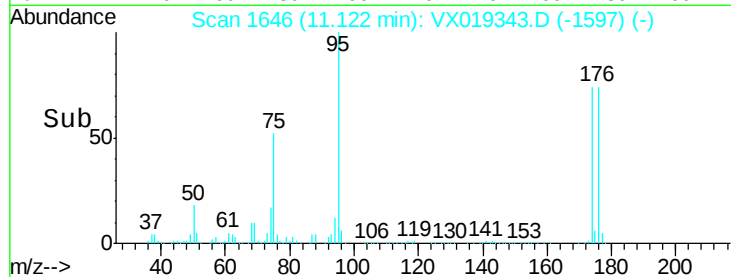
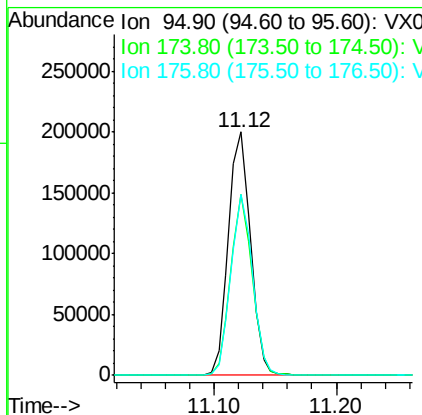
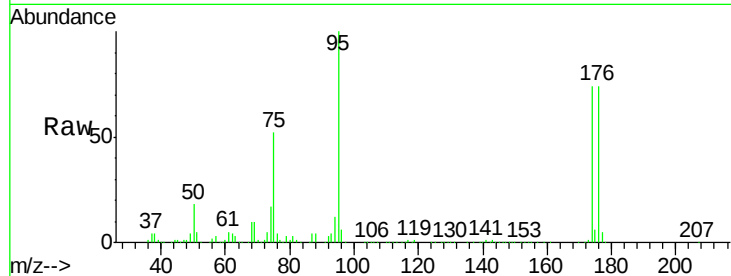




#62
4-Bromofluorobenzene
Concen: 53.518 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019343.D
Acq: 06 Nov 2020 15:43

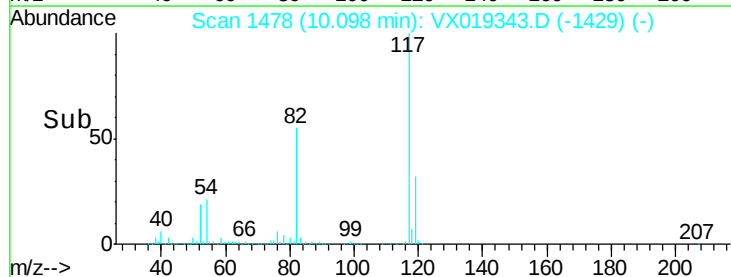
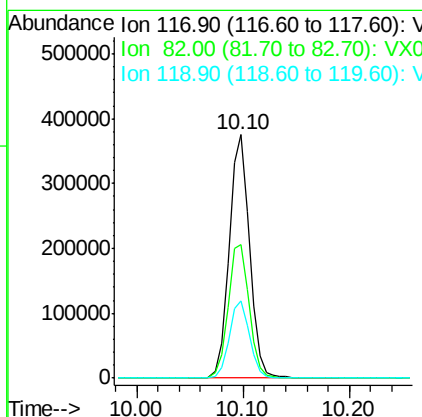
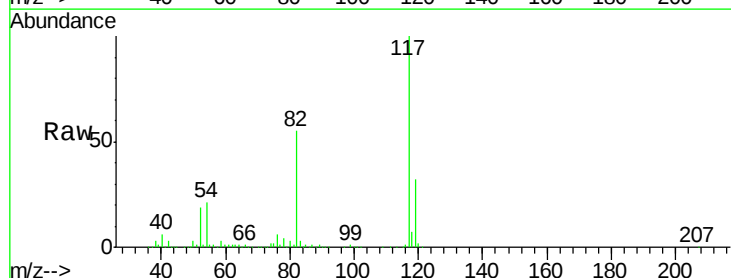
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB178-GW-338-340

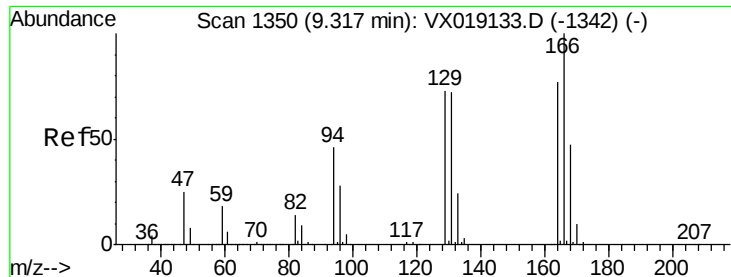
Tot Ion: 95 Resp: 250888
Ion Ratio Lower Upper
95 100
174 72.2 0.0 156.0
176 72.7 0.0 149.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019343.D
Acq: 06 Nov 2020 15:43

Tgt Ion: 117 Resp: 503747
Ion Ratio Lower Upper
117 100
82 54.9 43.6 65.4
119 31.8 25.5 38.3

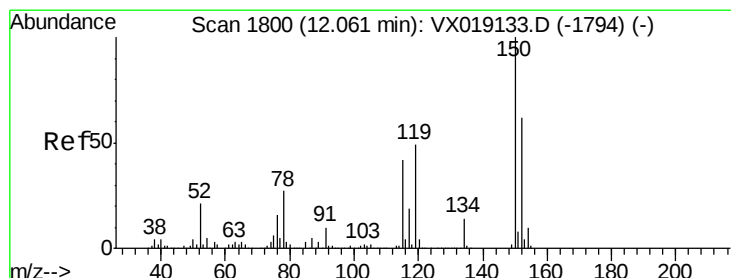
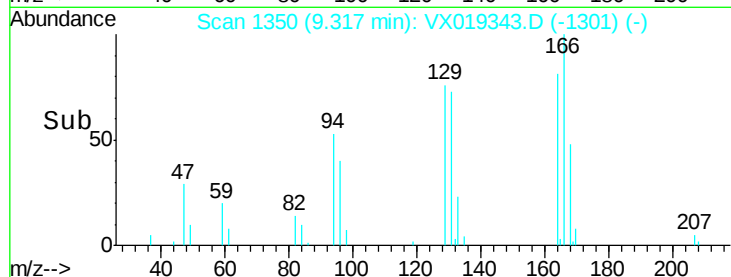
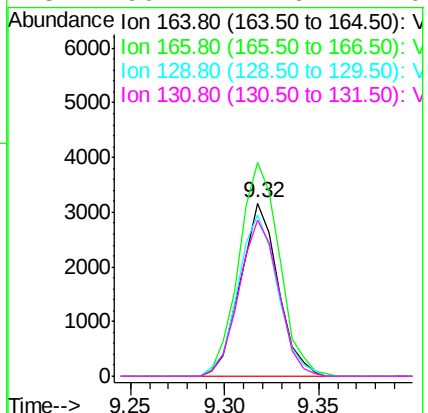
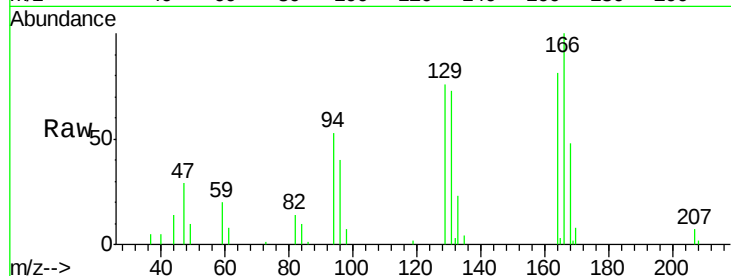




#64
Tetrachloroethene
Concen: 1.146 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX019343.D
Acq: 06 Nov 2020 15:43

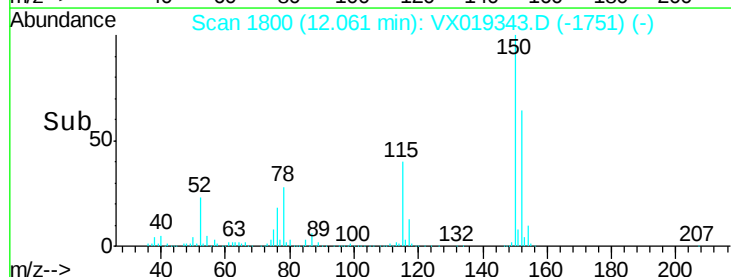
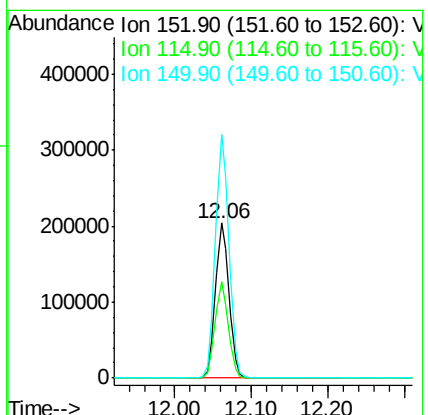
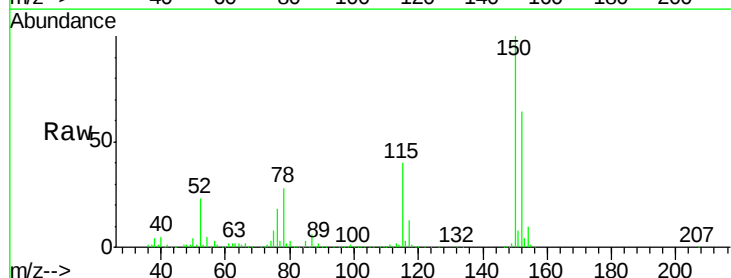
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB178-GW-338-340

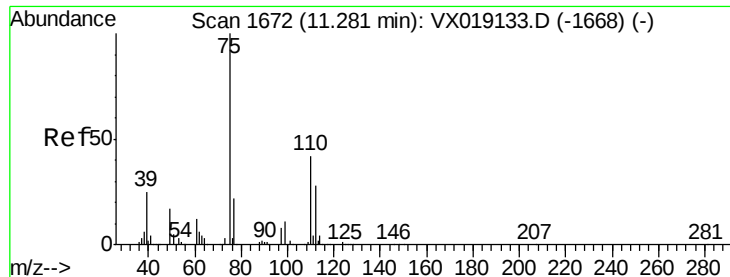
Tot Ion:164 Resp: 4398
Ion Ratio Lower Upper
164 100
166 123.5 104.1 156.1
129 93.5 76.2 114.4
131 90.1 74.6 112.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX019343.D
Acq: 06 Nov 2020 15:43

Tgt Ion:152 Resp: 251778
Ion Ratio Lower Upper
152 100
115 61.0 41.9 125.7
150 156.8 0.0 347.8





#76

1,2,3-Trichloropropane

Concen: 0.892 ug/l

RT: 11.28 min Scan# 1672

Delta R.T. -0.00 min

Lab File: VX019343.D

Acq: 06 Nov 2020 15:43

Instrument :

MSVOA_X

ClientSampleId :

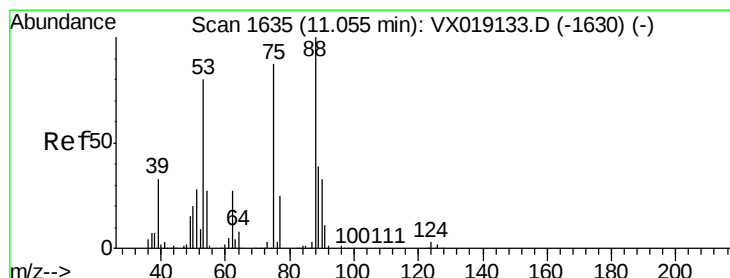
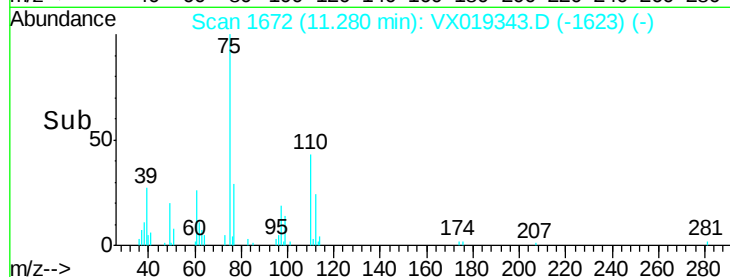
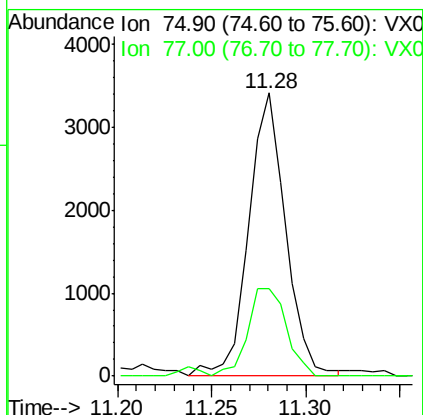
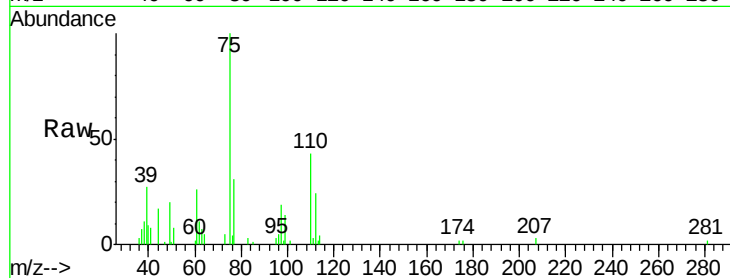
BP-VPB178-GW-338-340

Tot Ion: 75 Resp: 4635

Ion Ratio Lower Upper

75 100

77 32.6 20.3 60.9



#81

trans-1,4-Dichloro-2-butene

Concen: 66.114 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019343.D

Acq: 06 Nov 2020 15:43

Tgt Ion: 75 Resp: 130539

Ion Ratio Lower Upper

75 100

53 0.0 73.3 109.9#

89 0.0 38.2 57.2#

