

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110720\
 Data File : VX019348.D
 Acq On : 06 Nov 2020 17:36
 Operator : JC/MD
 Sample : L4662-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-178-DUP-20201104

Quant Time: Nov 07 01:07:22 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	289190	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	511825	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	479371	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	244563	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	203856	54.66	ug/l	0.00
Spiked Amount						
			Recovery	=	109.32%	
35) Dibromofluoromethane	5.46	113	159291	49.55	ug/l	0.00
Spiked Amount						
			Recovery	=	99.10%	
50) Toluene-d8	8.70	98	616872	50.90	ug/l	0.00
Spiked Amount						
			Recovery	=	101.80%	
62) 4-Bromofluorobenzene	11.12	95	242399	52.81	ug/l	0.00
Spiked Amount						
			Recovery	=	105.62%	

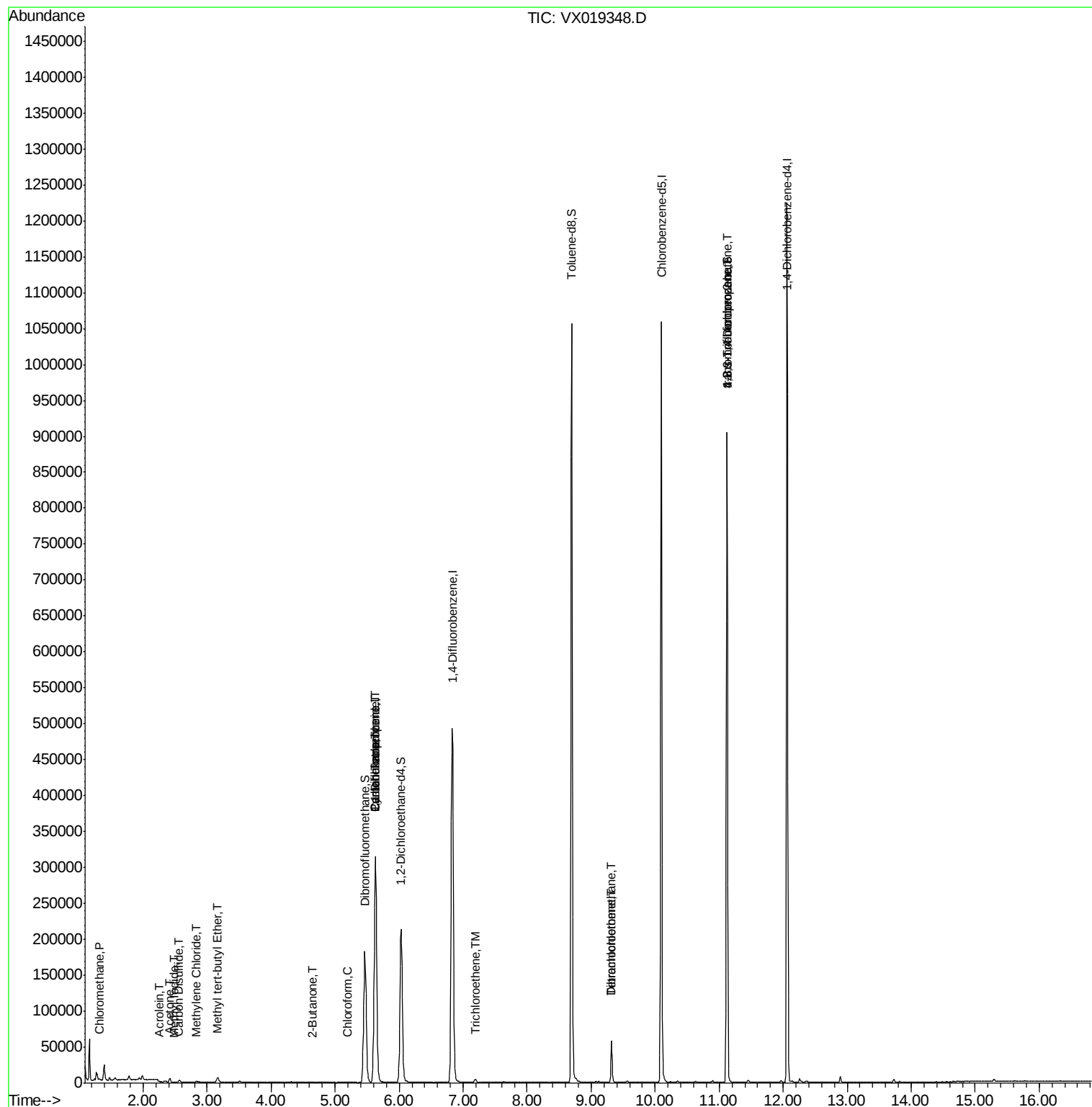
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	861	0.320	ug/l	89
10) Methyl Iodide	2.49	142	23	6.385	ug/l #	39
13) Acrolein	2.26	56	55	5.811	ug/l #	16
16) Acetone	2.42	43	5188	4.032	ug/l	96
17) Carbon Disulfide	2.56	76	418	0.811	ug/l #	75
19) Methyl tert-butyl Ether	3.17	73	7379	0.760	ug/l #	80
20) Methylene Chloride	2.84	84	691	0.214	ug/l #	83
25) 2-Butanone	4.65	43	1430	0.705	ug/l #	69
30) Chloroform	5.18	83	1216	0.216	ug/l	86
31) Cyclohexane	5.63	56	6476	1.374	ug/l #	7
36) 1,1-Dichloropropene	5.63	75	23412	4.954	ug/l #	49
38) Carbon Tetrachloride	5.63	117	29603	6.145	ug/l #	17
44) Trichloroethene	7.19	130	1710	0.446	ug/l	97
60) Dibromochloromethane	9.32	129	10593	2.862	ug/l #	11
64) Tetrachloroethene	9.32	164	10625	2.909	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	124244	24.604	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	124244	64.783	ug/l #	12

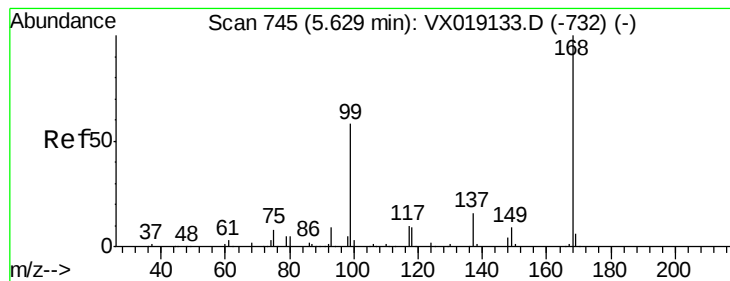
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.00 min

Lab File: VX019348.D

Acq: 06 Nov 2020 17:36

Instrument :

MSVOA_X

ClientSampleId :

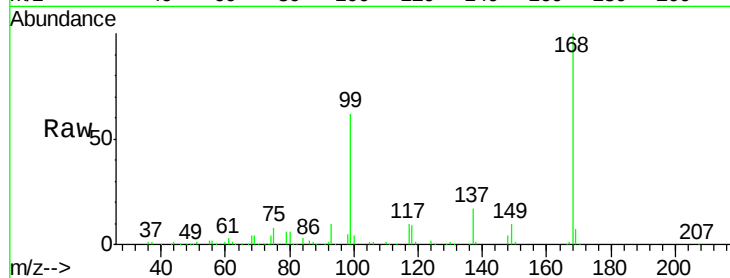
BP-VPB-178-DUP-20201104

Tot Ion:168 Resp: 289190

Ion Ratio Lower Upper

168 100

99 61.6 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

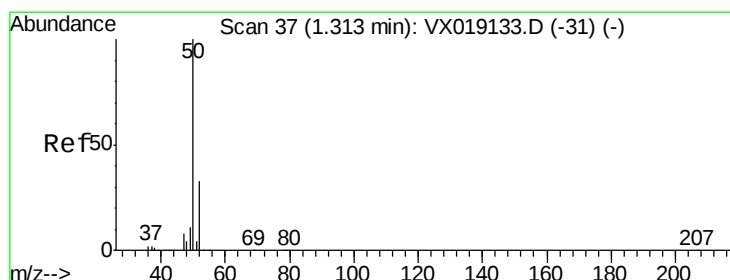
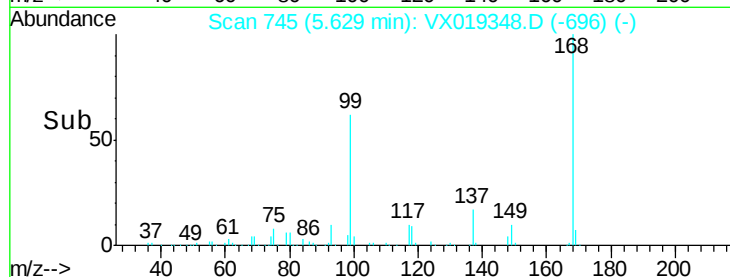
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.320 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019348.D

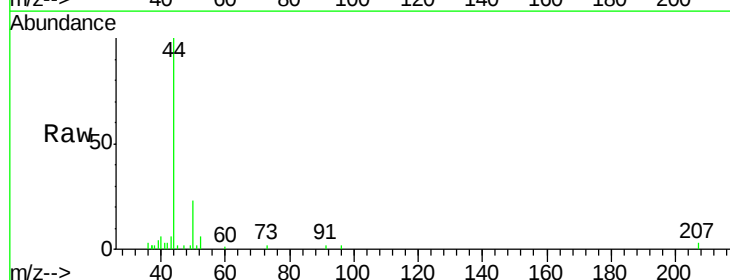
Acq: 06 Nov 2020 17:36

Tgt Ion: 50 Resp: 861

Ion Ratio Lower Upper

50 100

52 27.4 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

800

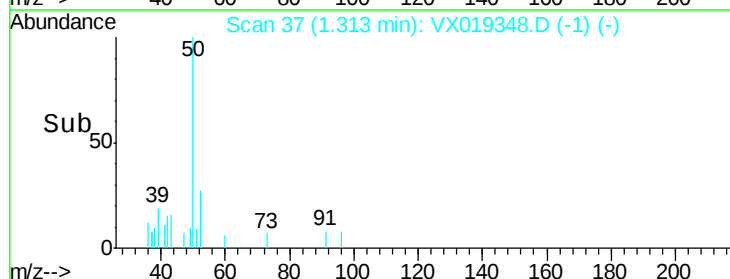
600

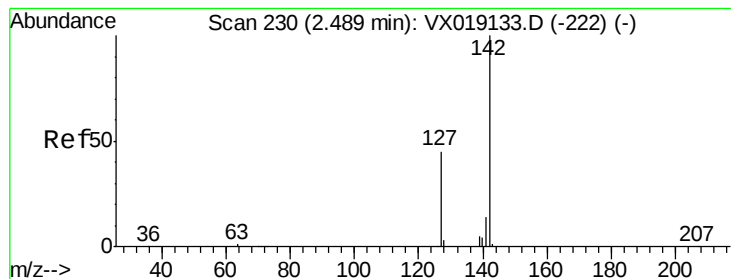
400

200

0

Time-->





#10

Methvl Iodide

Concen: 6.385 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX019348.D

Acq: 06 Nov 2020 17:36

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-178-DUP-20201104

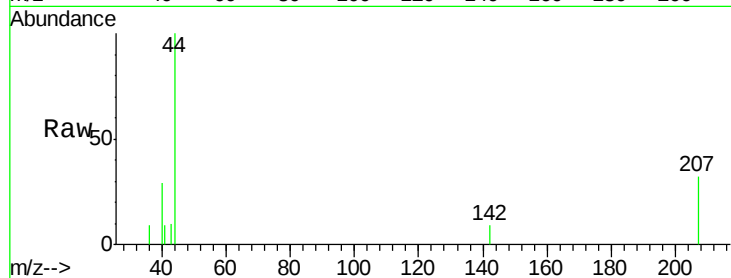
Tot Ion:142 Resp: 23

Ion Ratio Lower Upper

142 100

127 0.0 36.1 54.1#

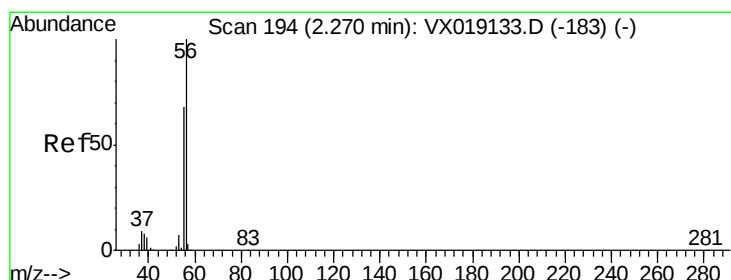
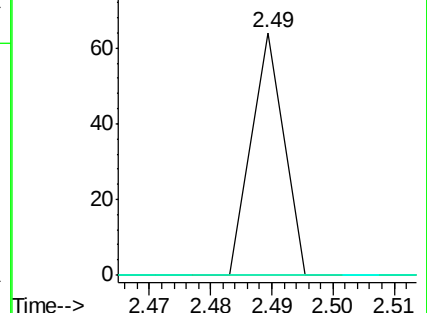
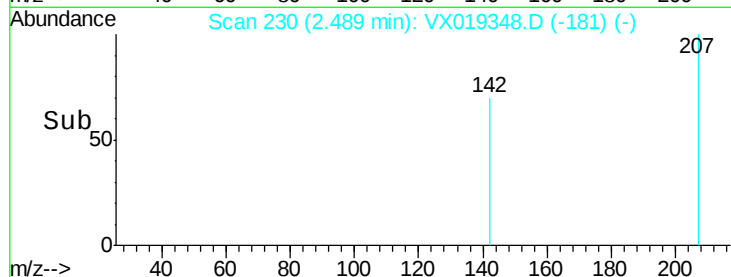
141 0.0 11.3 16.9#



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



#13

Acrolein

Concen: 5.811 ug/l

RT: 2.26 min Scan# 193

Delta R.T. -0.01 min

Lab File: VX019348.D

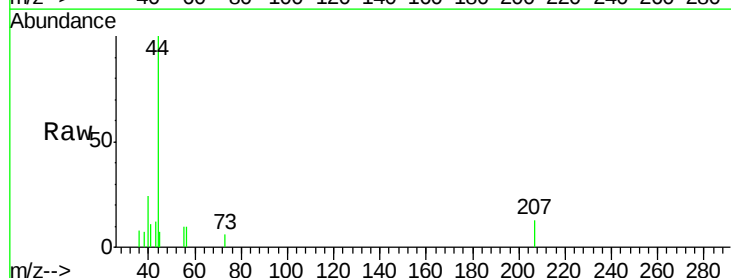
Acq: 06 Nov 2020 17:36

Tgt Ion: 56 Resp: 55

Ion Ratio Lower Upper

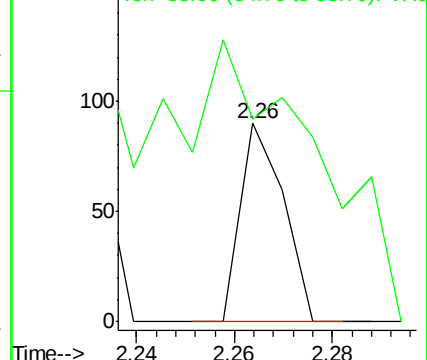
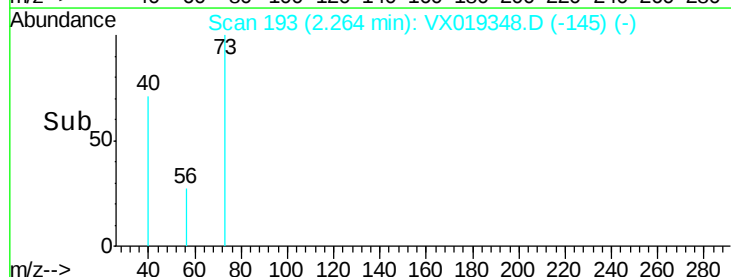
56 100

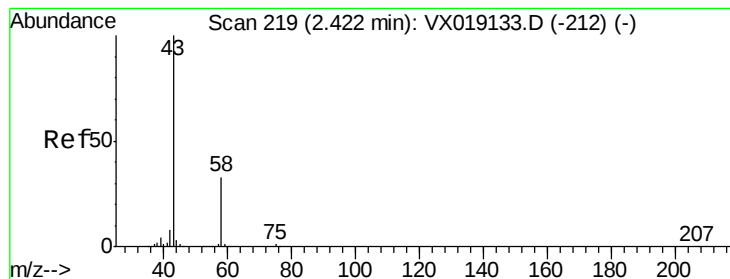
55 0.0 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 4.032 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX019348.D

Acq: 06 Nov 2020 17:36

Instrument :

MSVOA_X

ClientSampleId :

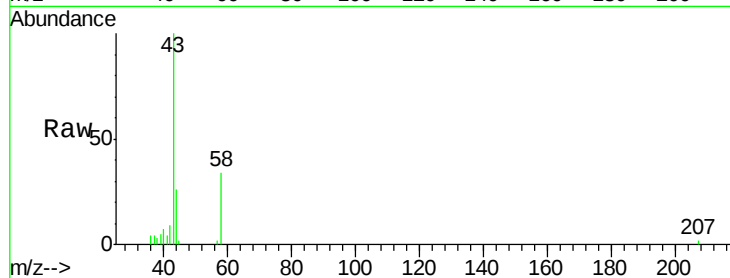
BP-VPB-178-DUP-20201104

Tot Ion: 43 Resp: 5188

Ion Ratio Lower Upper

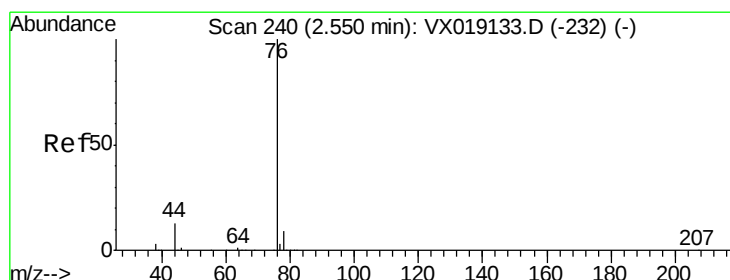
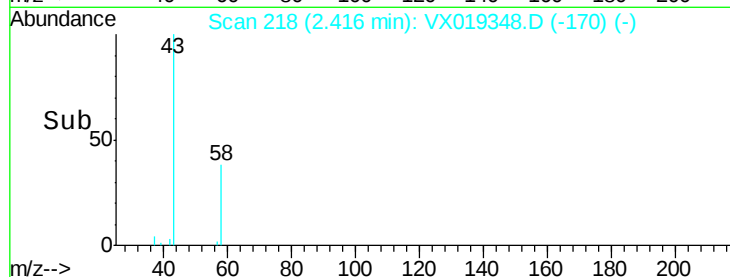
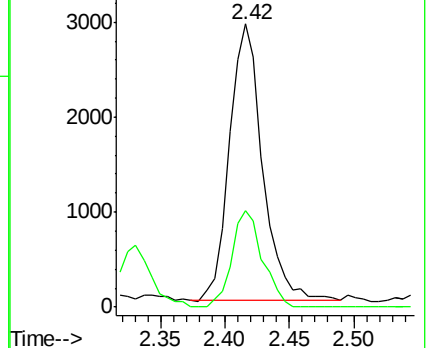
43 100

58 35.2 26.3 39.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.811 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX019348.D

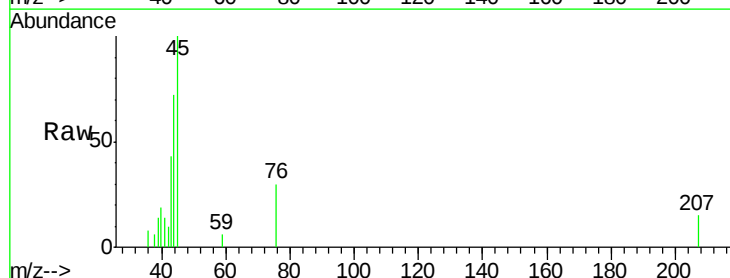
Acq: 06 Nov 2020 17:36

Tgt Ion: 76 Resp: 418

Ion Ratio Lower Upper

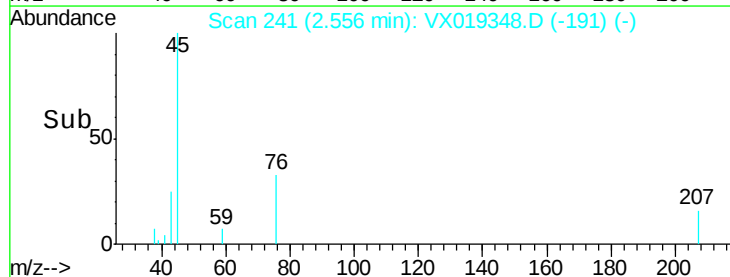
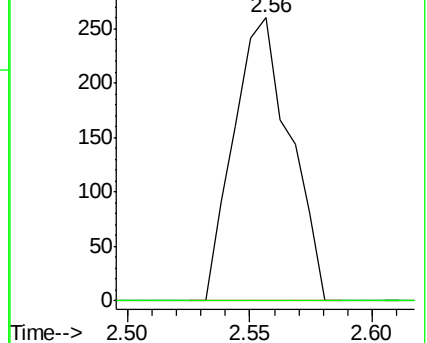
76 100

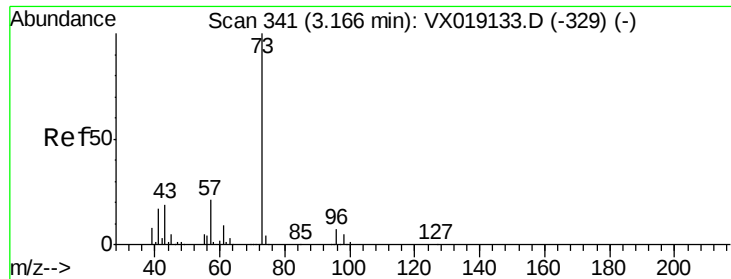
78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

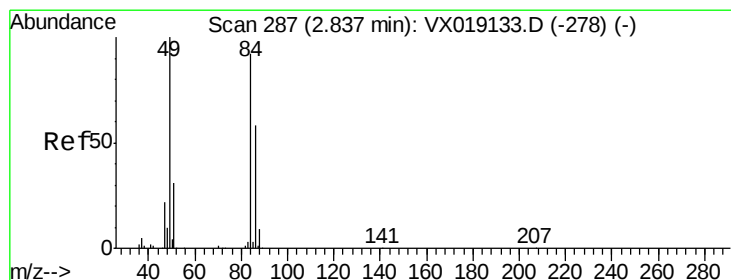
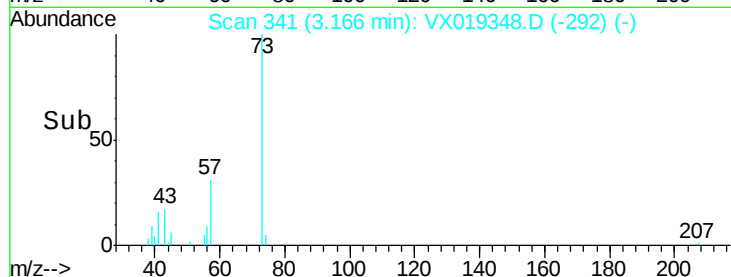
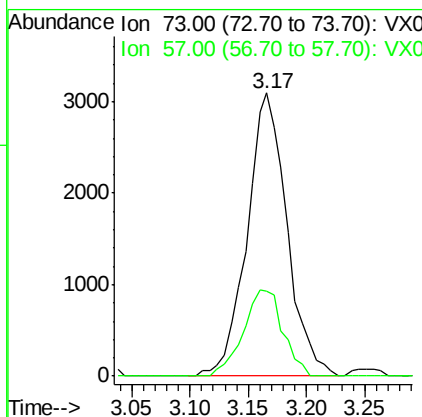
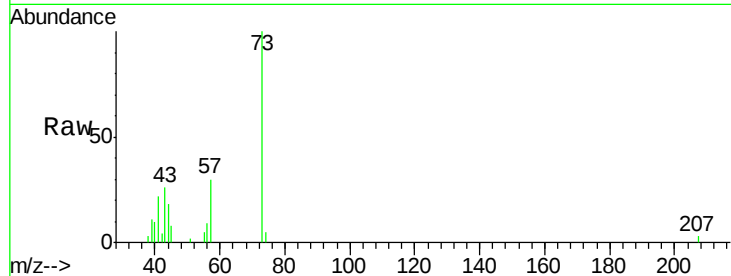




#19
Methyl tert-butyl Ether
Concen: 0.760 ug/l
RT: 3.17 min Scan# 341
Delta R.T. -0.00 min
Lab File: VX019348.D
Acq: 06 Nov 2020 17:36

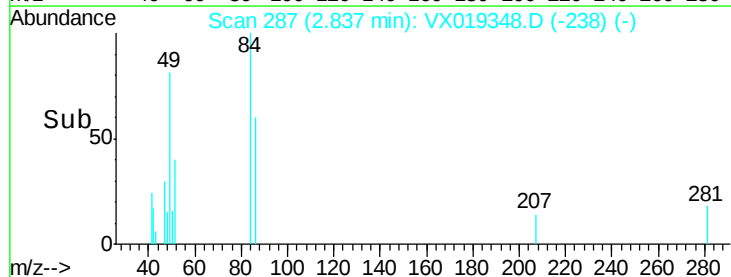
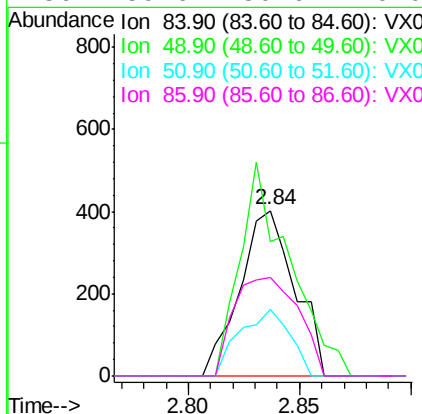
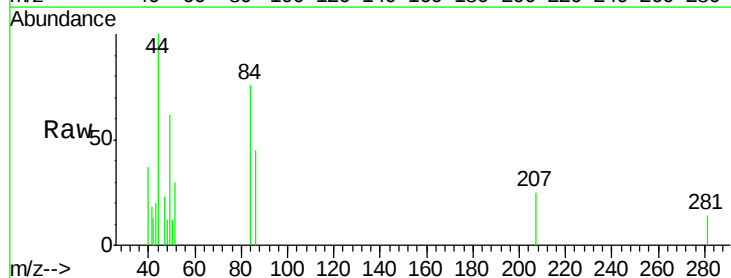
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-178-DUP-20201104

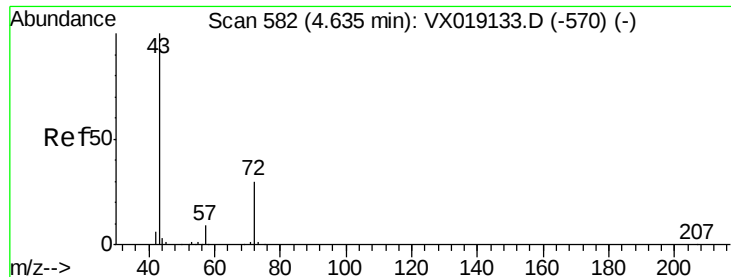
Tot Ion: 73 Resp: 7379
Ion Ratio Lower Upper
73 100
57 30.2 16.6 25.0#



#20
Methylene Chloride
Concen: 0.214 ug/l
RT: 2.84 min Scan# 287
Delta R.T. -0.00 min
Lab File: VX019348.D
Acq: 06 Nov 2020 17:36

Tgt Ion: 84 Resp: 691
Ion Ratio Lower Upper
84 100
49 81.4 86.8 130.2#
51 40.0 27.3 40.9
86 59.6 50.6 76.0





#25

2-Butanone

Concen: 0.705 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX019348.D

Acq: 06 Nov 2020 17:36

Instrument :

MSVOA_X

ClientSampleId :

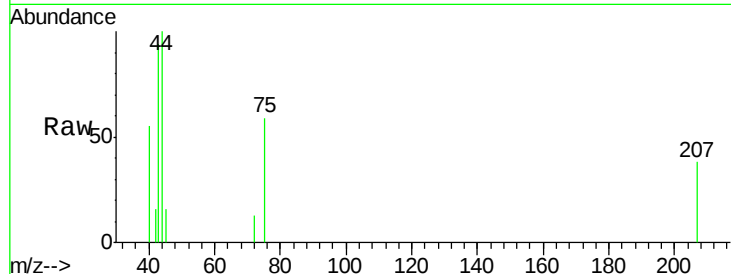
BP-VPB-178-DUP-20201104

Tot Ion: 43 Resp: 1430

Ion Ratio Lower Upper

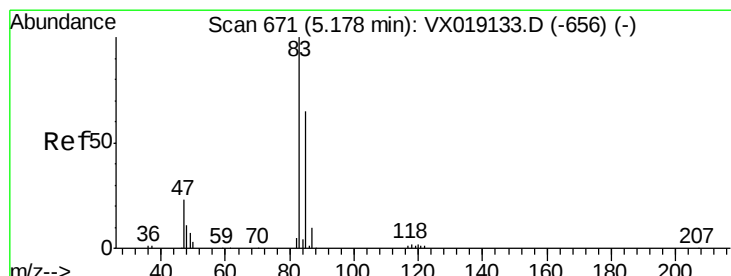
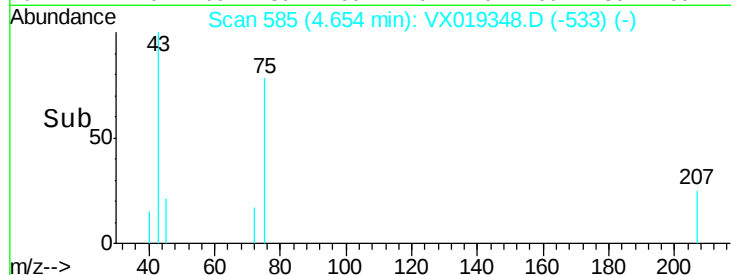
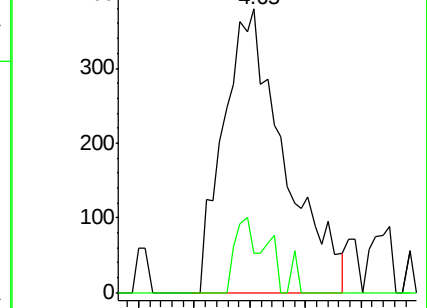
43 100

72 13.7 24.6 36.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#30

Chloroform

Concen: 0.216 ug/l

RT: 5.18 min Scan# 672

Delta R.T. 0.01 min

Lab File: VX019348.D

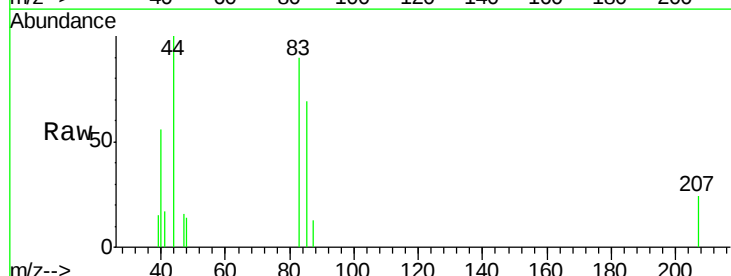
Acq: 06 Nov 2020 17:36

Tgt Ion: 83 Resp: 1216

Ion Ratio Lower Upper

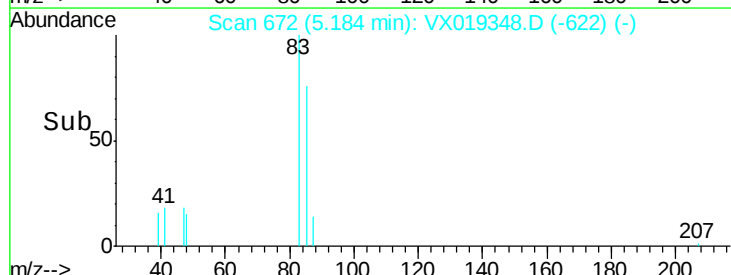
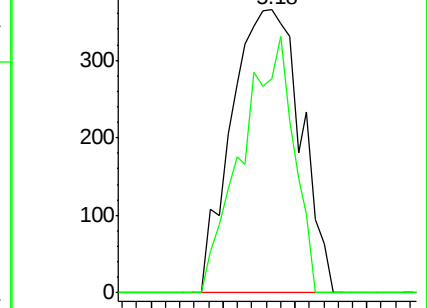
83 100

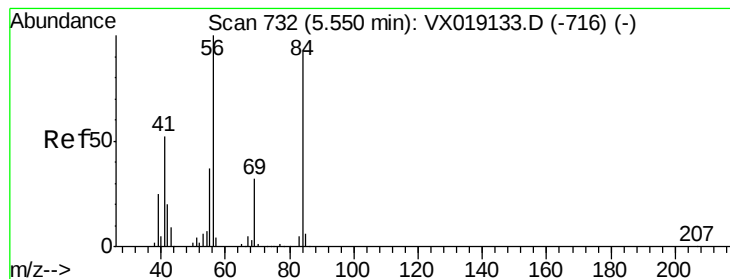
85 75.9 51.9 77.9



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0





#31

Cyclohexane

Concen: 1.374 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX019348.D

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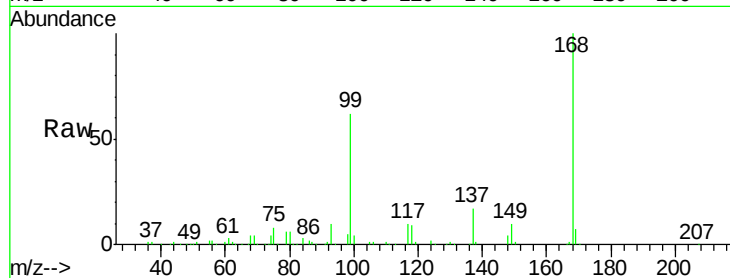
Tot Ion: 56 Resp: 6476

Ion Ratio Lower Upper

56 100

69 162.7 25.9 38.9#

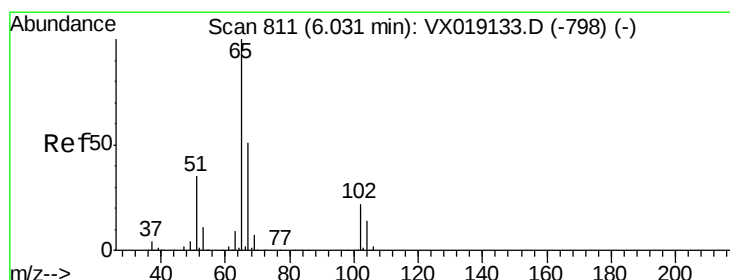
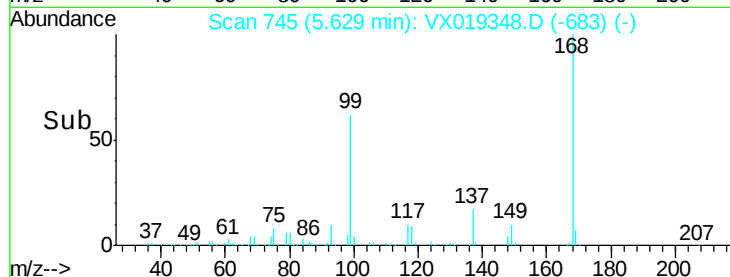
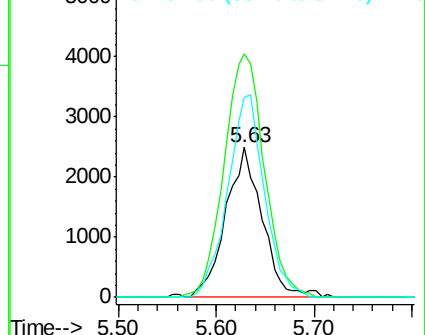
84 134.0 73.4 110.2#



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



#33

1,2-Dichloroethane-d4

Concen: 54.661 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019348.D

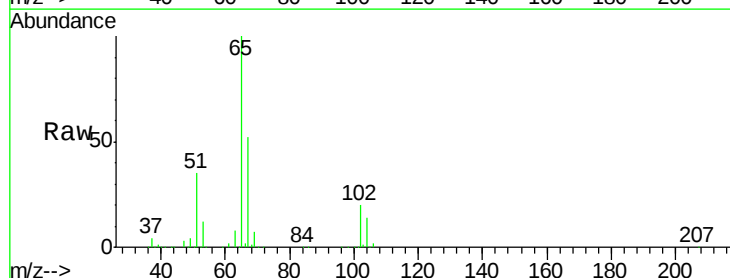
Acq: 06 Nov 2020 17:36

Tgt Ion: 65 Resp: 203856

Ion Ratio Lower Upper

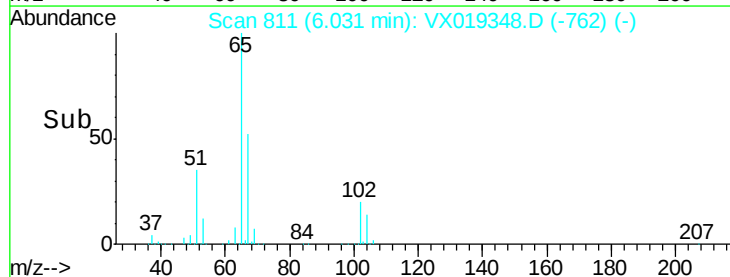
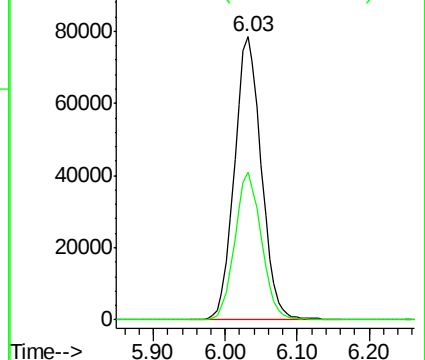
65 100

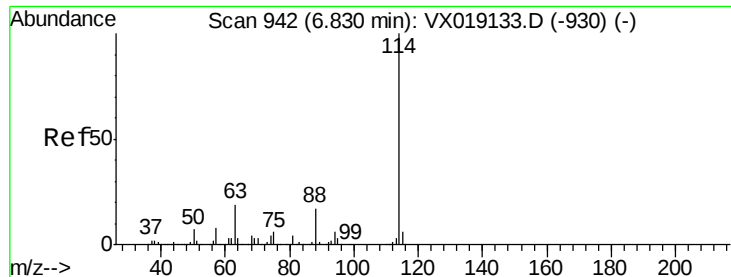
67 51.6 0.0 103.0



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: VX019348.D

Acq: 06 Nov 2020 17:36

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MSVOA_X

ClientSampleId :

BP-VPB-178-DUP-20201104

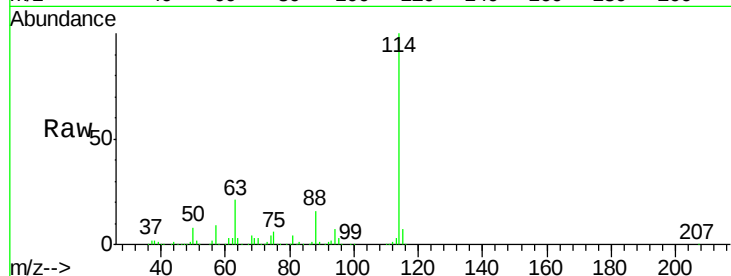
Tot Ion:114 Resp: 511825

Ion Ratio Lower Upper

114 100

63 21.0 0.0 38.8

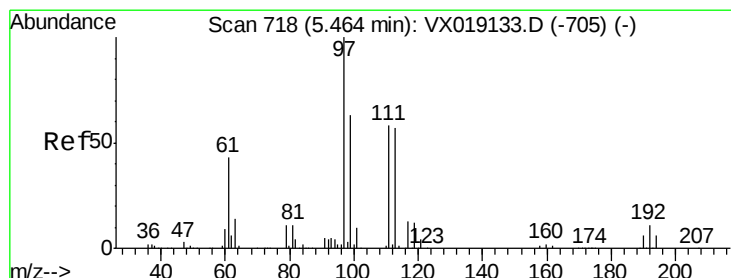
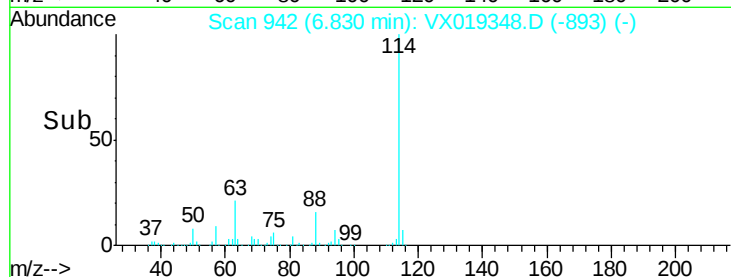
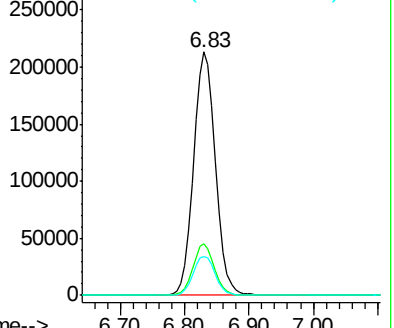
88 15.7 0.0 34.2



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: 49.547 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019348.D

Acq: 06 Nov 2020 17:36

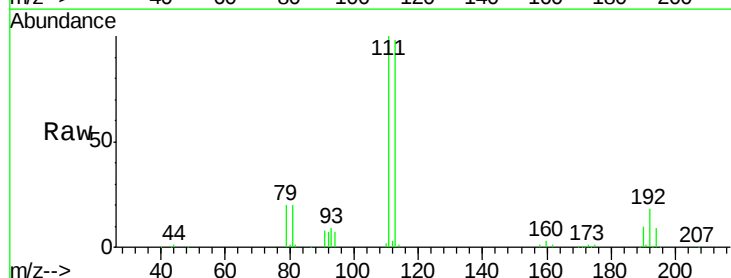
Tgt Ion:113 Resp: 159291

Ion Ratio Lower Upper

113 100

111 102.6 82.3 123.5

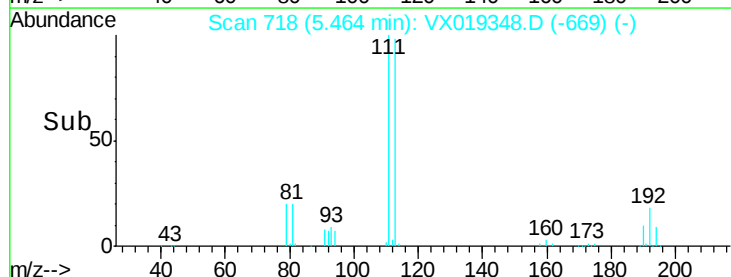
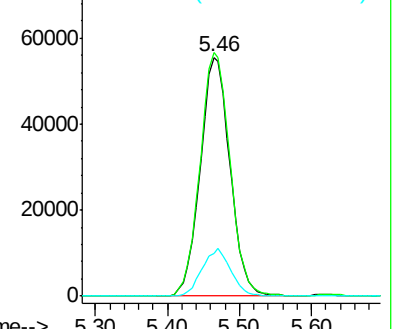
192 19.2 16.2 24.2

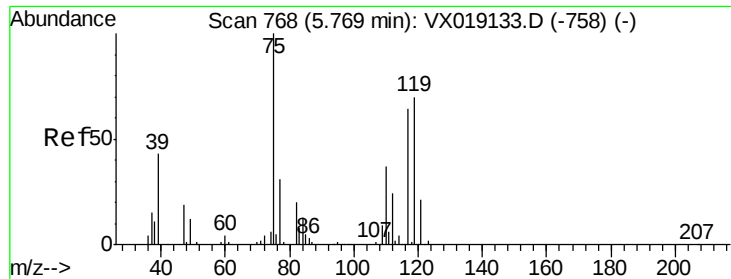


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

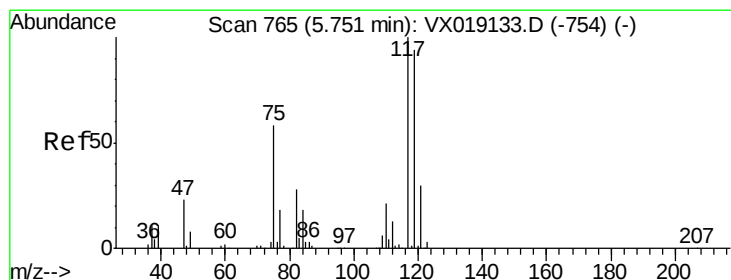
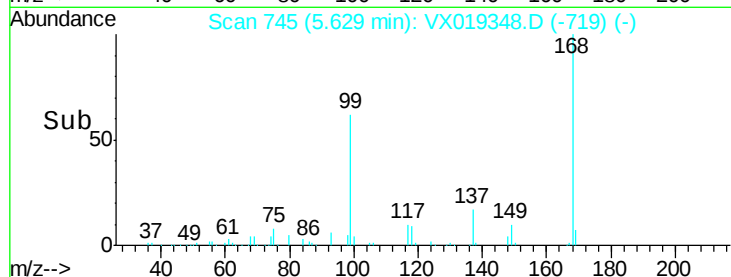
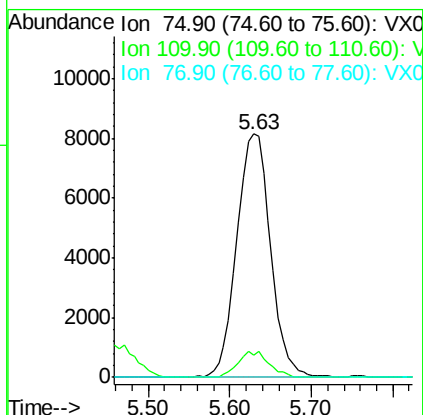
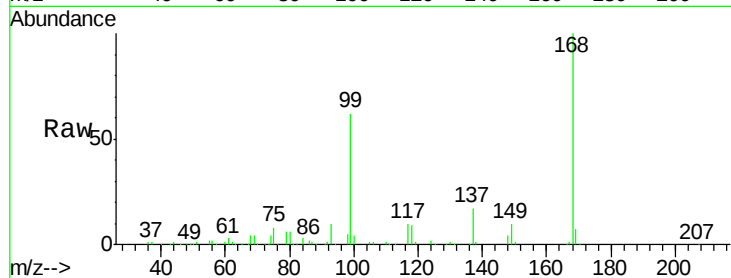




#36
 1,1-Dichloropropene
 Concen: 4.954 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX019348.D
 Acq: 06 Nov 2020 17:36

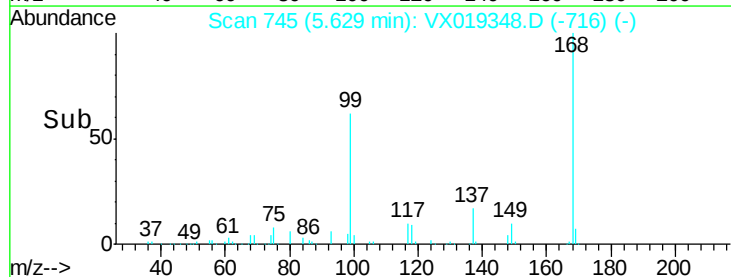
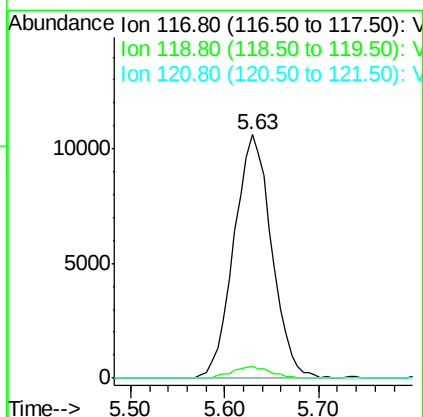
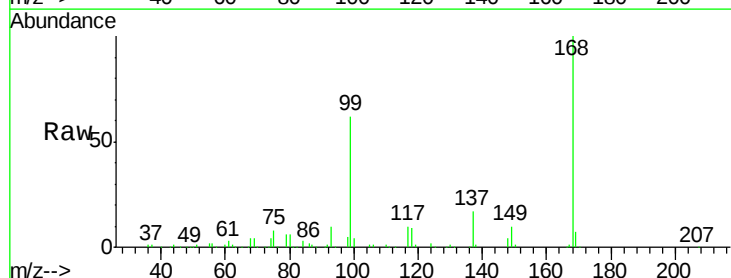
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-178-DUP-20201104

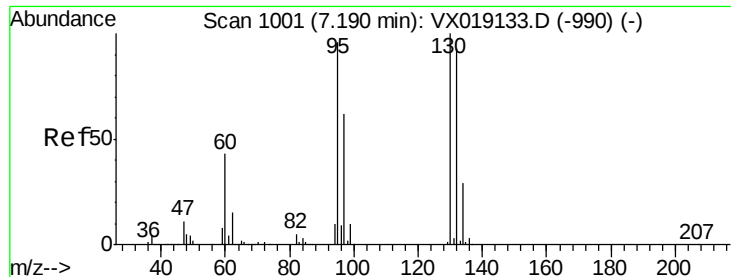
Tot Ion: 75 Resp: 23412
 Ion Ratio Lower Upper
 75 100
 110 9.6 18.3 54.9#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 6.145 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.12 min
 Lab File: VX019348.D
 Acq: 06 Nov 2020 17:36

Tgt Ion:117 Resp: 29603
 Ion Ratio Lower Upper
 117 100
 119 5.0 75.0 112.6#
 121 0.0 23.9 35.9#





#44

Trichloroethene

Concen: 0.446 ug/l

RT: 7.19 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VX019348.D

Acq: 06 Nov 2020 17:36

Instrument :

MSVOA_X

ClientSampleId :

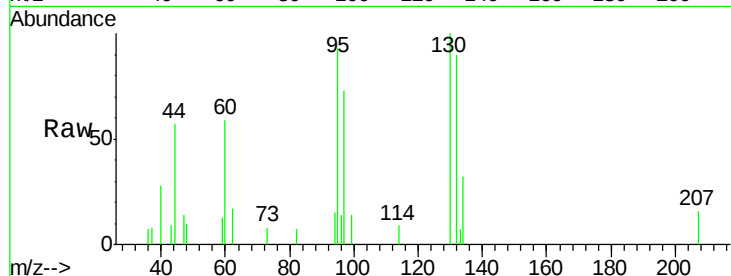
BP-VPB-178-DUP-20201104

Tot Ion:130 Resp: 1710

Ion Ratio Lower Upper

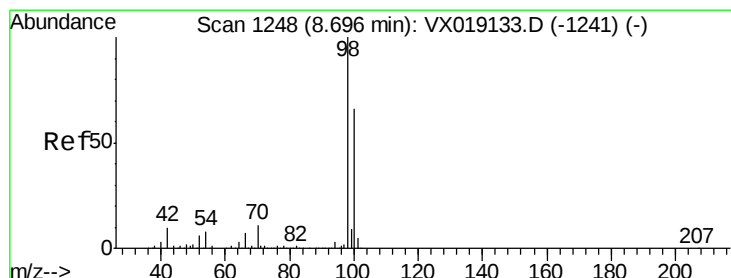
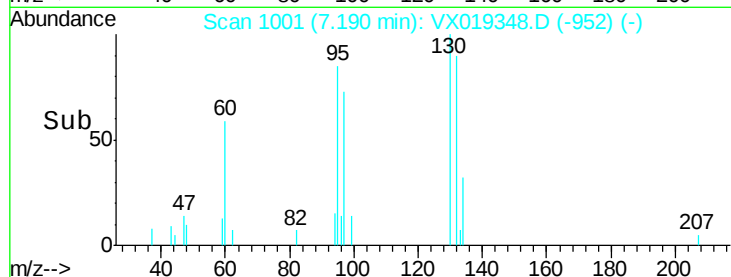
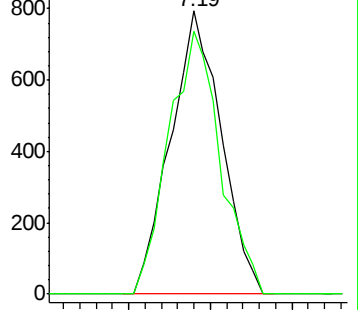
130 100

95 92.9 0.0 192.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 50.900 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX019348.D

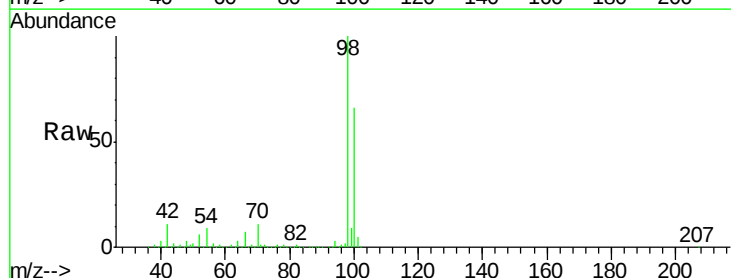
Acq: 06 Nov 2020 17:36

Tgt Ion: 98 Resp: 616872

Ion Ratio Lower Upper

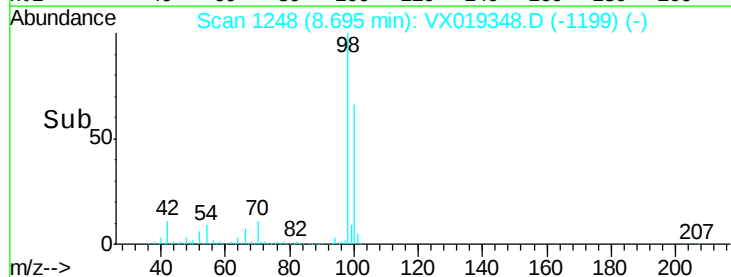
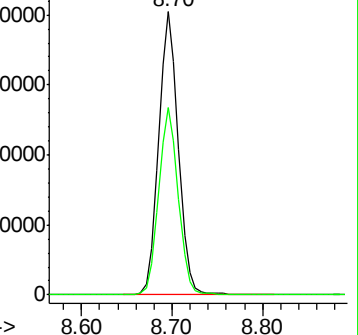
98 100

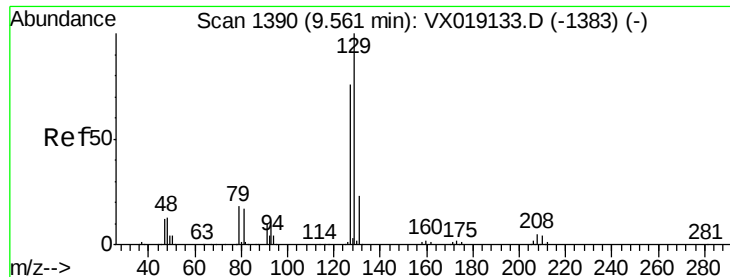
100 66.1 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#60

Dibromochloromethane

Concen: 2.862 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.24 min

Lab File: VX019348.D

Acq: 06 Nov 2020 17:36

Instrument :

MSVOA_X

ClientSampleId :

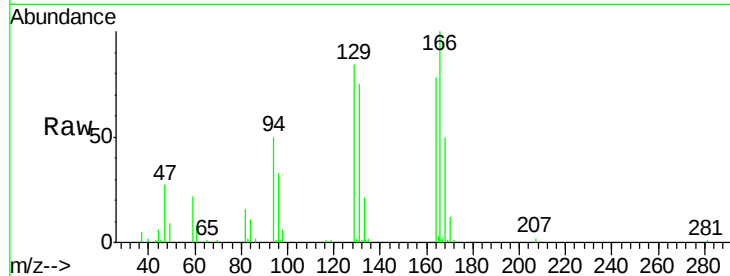
BP-VPB-178-DUP-20201104

Tot Ion:129 Resp: 10593

Ion Ratio Lower Upper

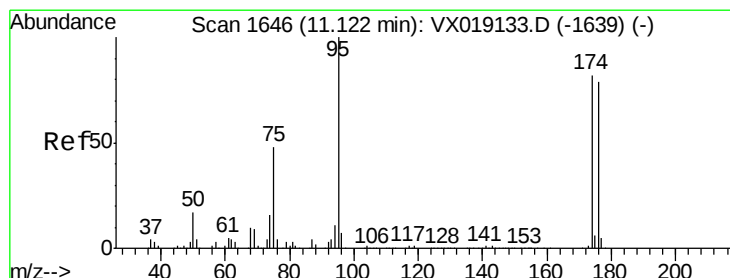
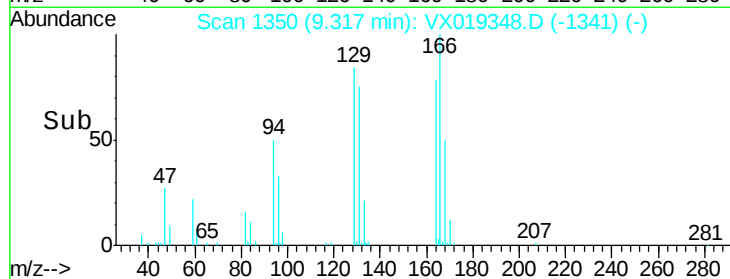
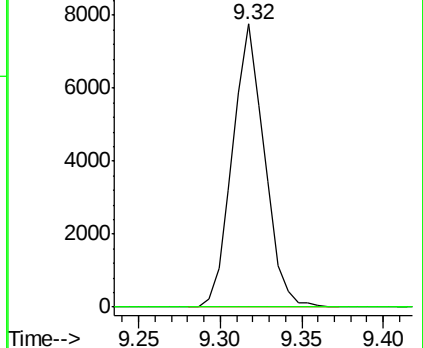
129 100

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



#62

4-Bromofluorobenzene

Concen: 52.814 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX019348.D

Acq: 06 Nov 2020 17:36

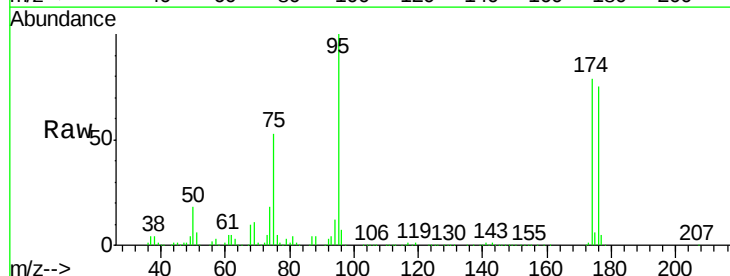
Tgt Ion: 95 Resp: 242399

Ion Ratio Lower Upper

95 100

174 75.3 0.0 156.0

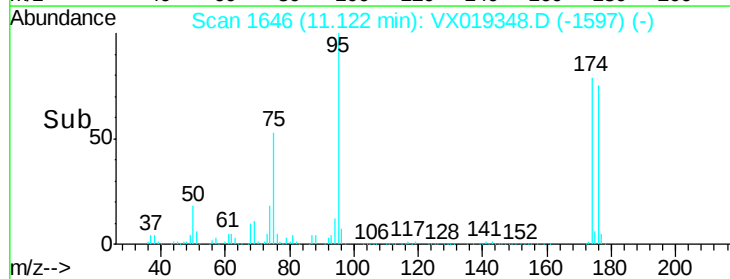
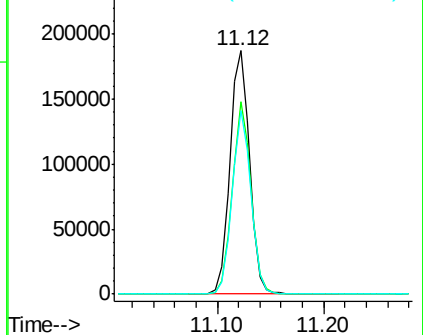
176 72.6 0.0 149.8

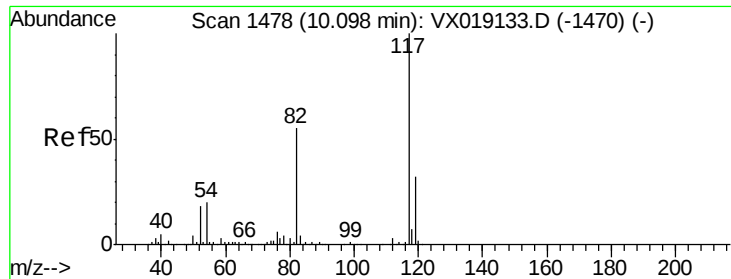


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

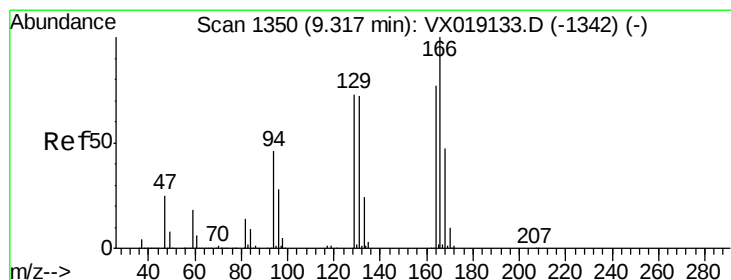
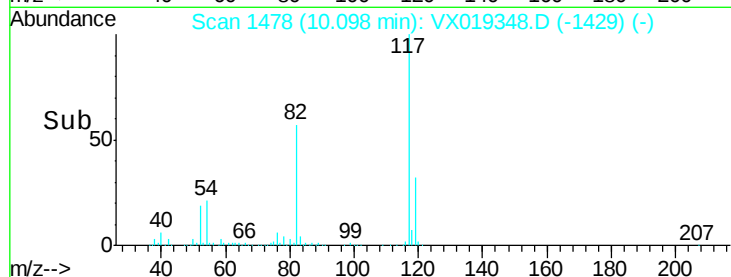
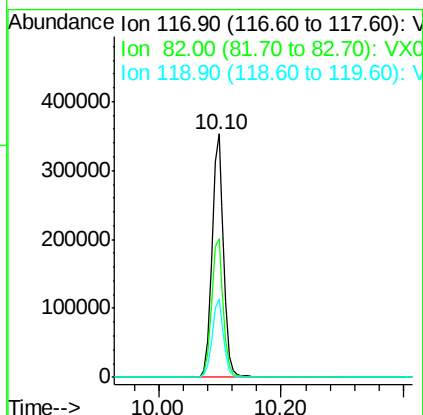
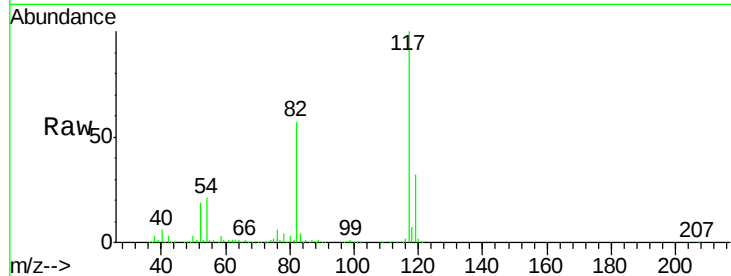




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX019348.D
Acq: 06 Nov 2020 17:36

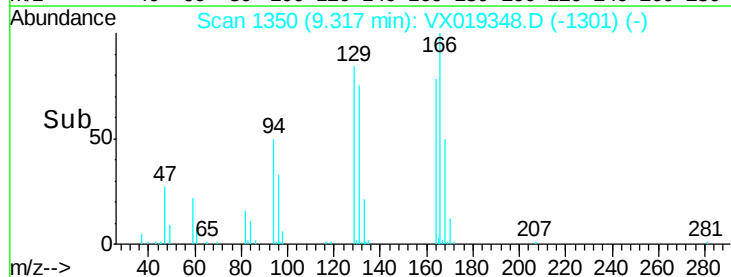
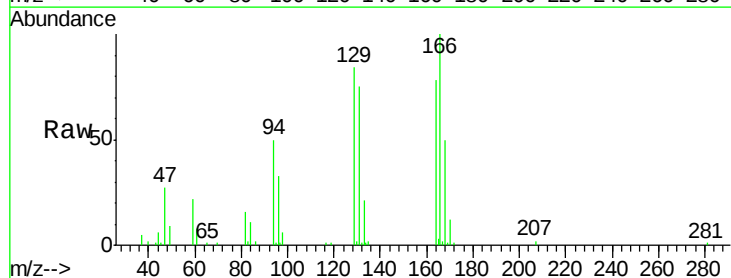
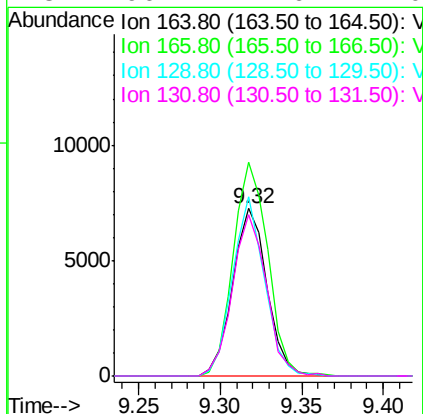
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-178-DUP-20201104

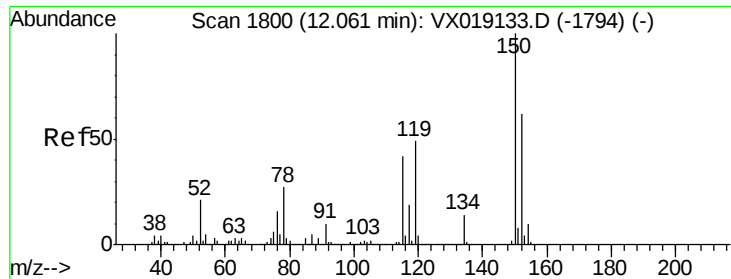
Tot Ion:117 Resp: 479371
Ion Ratio Lower Upper
117 100
82 57.1 43.6 65.4
119 32.5 25.5 38.3



#64
Tetrachloroethene
Concen: 2.909 ug/l
RT: 9.32 min Scan# 1350
Delta R.T. -0.00 min
Lab File: VX019348.D
Acq: 06 Nov 2020 17:36

Tgt Ion:164 Resp: 10625
Ion Ratio Lower Upper
164 100
166 127.5 104.1 156.1
129 106.9 76.2 114.4
131 96.2 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: VX019348.D

Acq: 06 Nov 2020 17:36

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-178-DUP-20201104

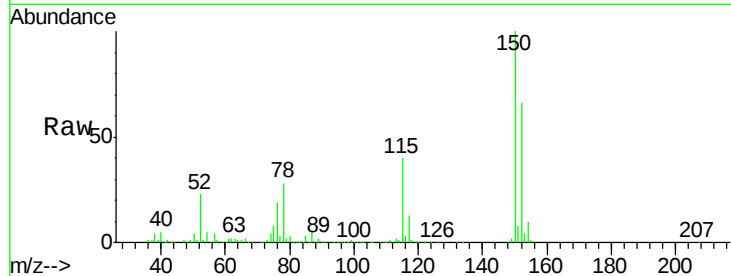
Tot Ion:152 Resp: 244563

Ion Ratio Lower Upper

152 100

115 60.6 41.9 125.7

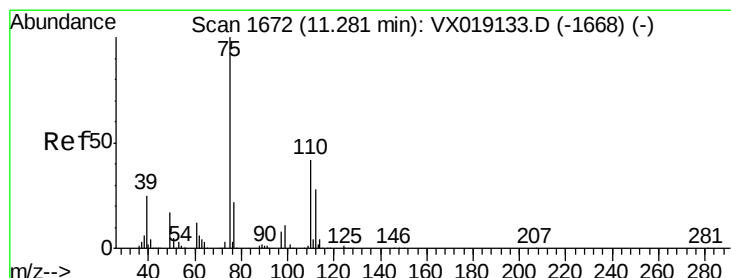
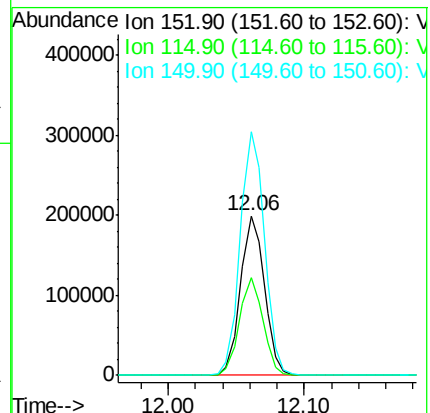
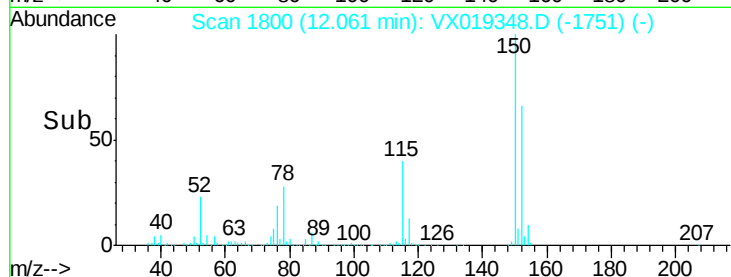
150 155.3 0.0 347.8



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: 24.604 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019348.D

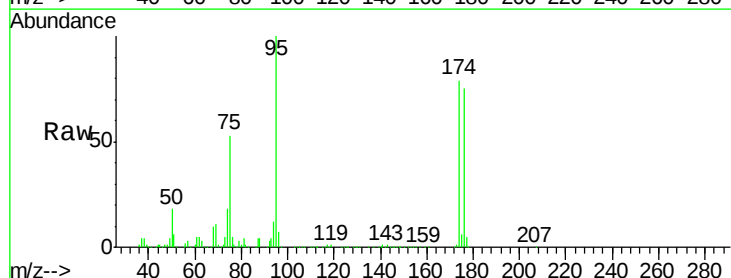
Acq: 06 Nov 2020 17:36

Tgt Ion: 75 Resp: 124244

Ion Ratio Lower Upper

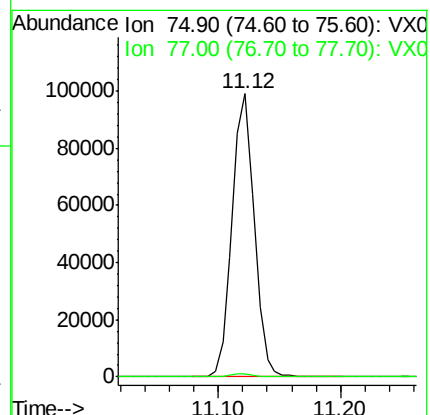
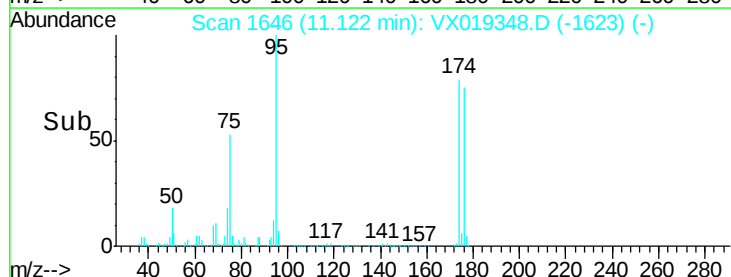
75 100

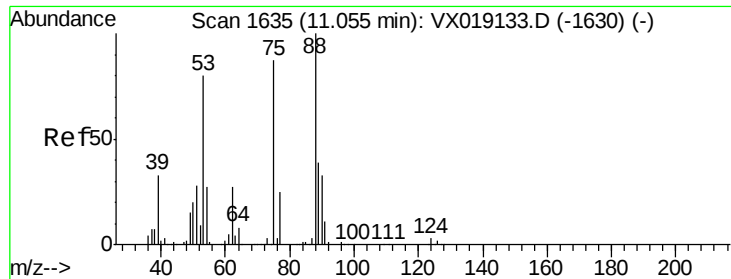
77 1.1 20.3 60.9#



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: 64.783 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019348.D

Acq: 06 Nov 2020 17:36

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-178-DUP-20201104

Tot Ion: 75 Resp: 124244

Ion Ratio Lower Upper

75 100

53 0.0 73.3 109.9#

89 0.0 38.2 57.2#

