

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111920\
 Data File : VX019462.D
 Acq On : 18 Nov 2020 19:45
 Operator : JC/MD
 Sample : L4787-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB178-EB-20201116

Quant Time: Nov 19 03:15:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X111920W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 18 16:47:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	250113	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	416853	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	381869	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	163620	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	177180	45.21	ug/l	0.00
Spiked Amount			Recovery	=	90.42%	
35) Dibromofluoromethane	5.46	113	129194	47.10	ug/l	0.00
Spiked Amount			Recovery	=	94.20%	
50) Toluene-d8	8.70	98	510910	47.93	ug/l	0.00
Spiked Amount			Recovery	=	95.86%	
62) 4-Bromofluorobenzene	11.12	95	184906	47.22	ug/l	0.00
Spiked Amount			Recovery	=	94.44%	

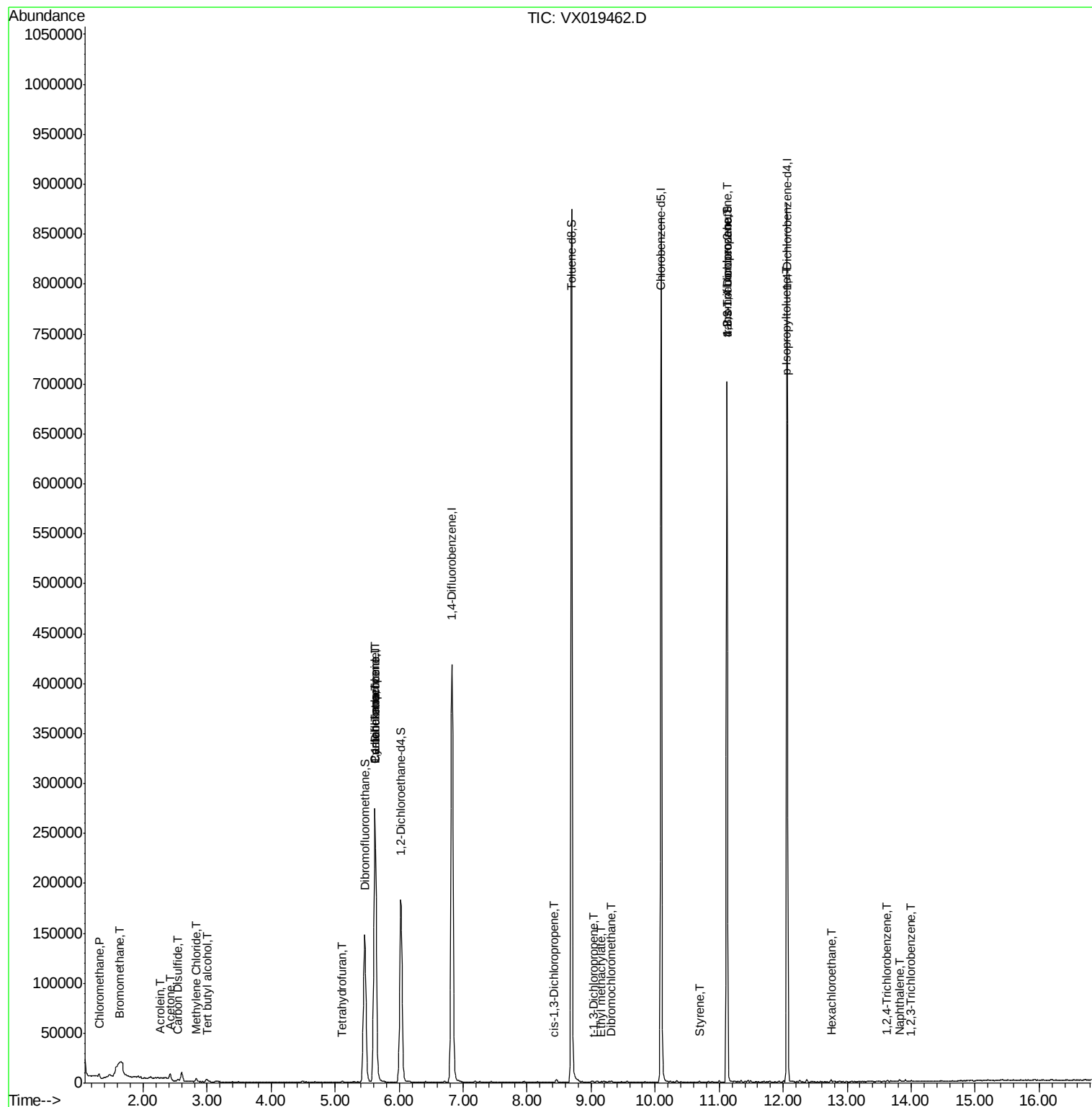
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	2060	0.591	ug/l	95
5) Bromomethane	1.62	94	651	0.392	ug/l	96
6) Chloroethane	1.64	64	201	Below Cal	#	42
11) Tert butyl alcohol	3.00	59	2116	2.905	ug/l #	72
13) Acrolein	2.28	56	320	0.613	ug/l #	15
16) Acetone	2.42	43	6898	4.551	ug/l	97
17) Carbon Disulfide	2.54	76	2236	0.306	ug/l	96
20) Methylene Chloride	2.83	84	1365	0.398	ug/l	93
29) Tetrahydrofuran	5.10	42	625	0.429	ug/l #	67
31) Cyclohexane	5.62	56	5977	1.214	ug/l #	1
36) 1,1-Dichloropropene	5.62	75	22345	5.348	ug/l #	51
38) Carbon Tetrachloride	5.62	117	26946	6.538	ug/l #	18
53) t-1,3-Dichloropropene	9.03	75	232	1.871	ug/l #	43
54) cis-1,3-Dichloropropene	8.42	75	197	1.520	ug/l	92
56) Ethyl methacrylate	9.16	69	21	1.749	ug/l #	1
60) Dibromochloromethane	9.32	129	217	1.684	ug/l #	11
70) Styrene	10.70	104	308	2.162	ug/l #	83
76) 1,2,3-Trichloropropane	11.12	75	98556	25.265	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	98556	66.833	ug/l #	9
86) p-Isopropyltoluene	12.05	119	426	1.642	ug/l #	1
90) Hexachloroethane	12.76	117	84	3.239	ug/l #	14
93) 1,2,4-Trichlorobenzene	13.63	180	461	2.877	ug/l	96
95) Naphthalene	13.82	128	1123	2.401	ug/l #	90
96) 1,2,3-Trichlorobenzene	14.01	180	384	2.543	ug/l	98

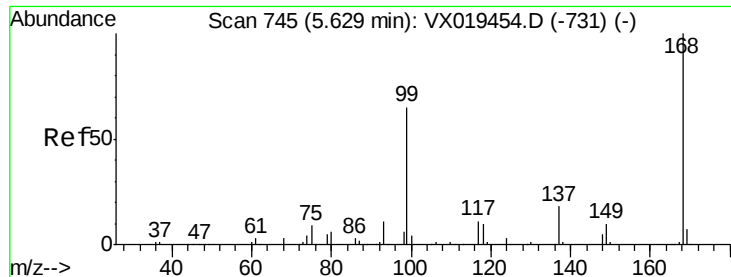
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 19 03:15:38 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X111920W.M
Quant Title : SW846 8260
QLast Update : Wed Nov 18 16:47:30 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: VX019462.D

Acq: 18 Nov 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

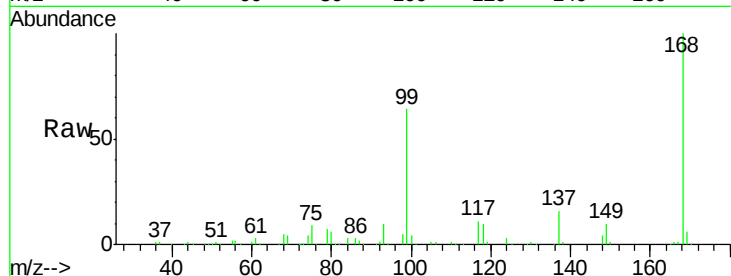
BP-VPB178-EB-20201116

Tot Ion:168 Resp: 250113

Ion Ratio Lower Upper

168 100

99 63.5 52.1 78.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

80000

60000

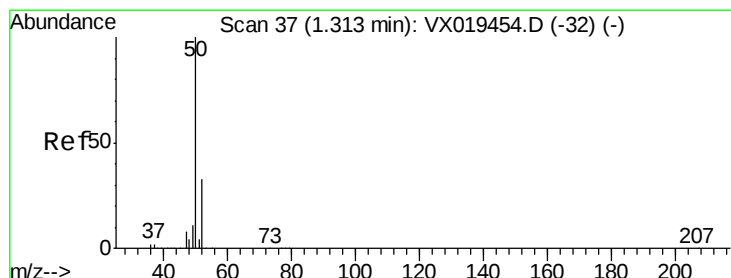
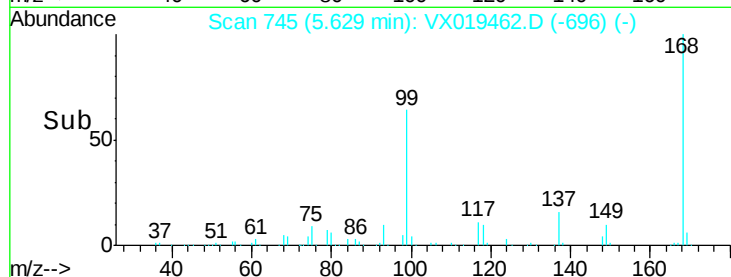
40000

20000

0

5.50 5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.591 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX019462.D

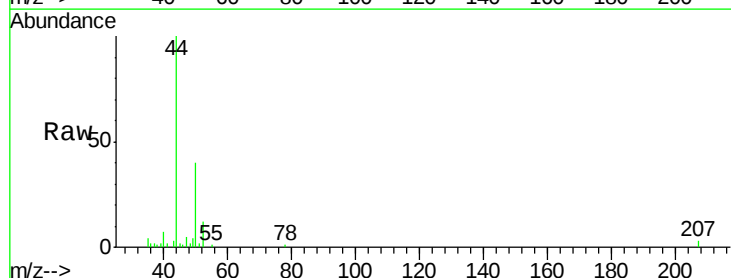
Acq: 18 Nov 2020 19:45

Tgt Ion: 50 Resp: 2060

Ion Ratio Lower Upper

50 100

52 29.9 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

2000

1500

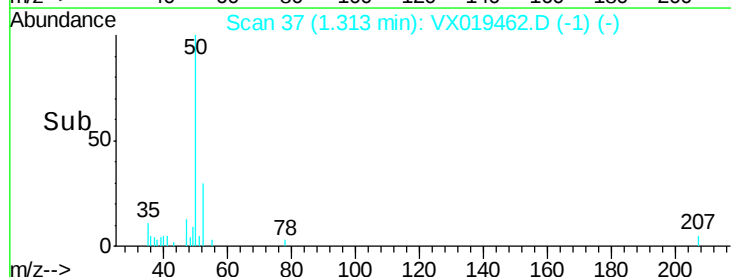
1000

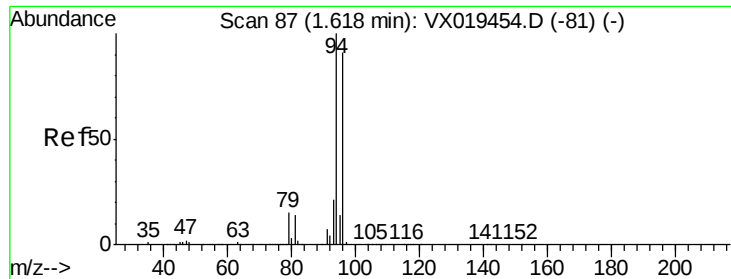
500

0

1.30 1.35

Time-->





#5

Bromomethane

Concen: 0.392 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.01 min

Lab File: VX019462.D

Acq: 18 Nov 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

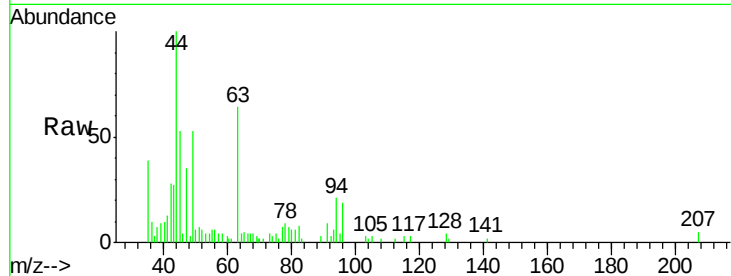
BP-VPB178-EB-20201116

Tot Ion: 94 Resp: 651

Ion Ratio Lower Upper

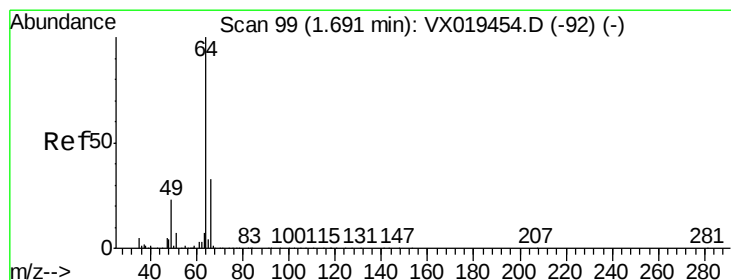
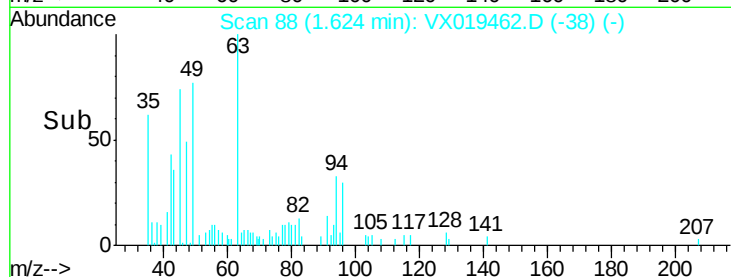
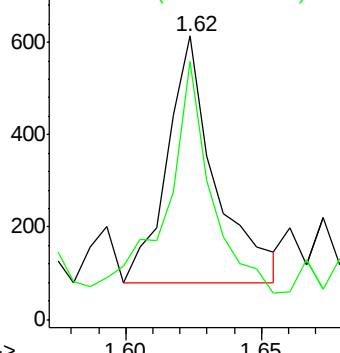
94 100

96 94.2 72.4 108.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.64 min Scan# 91

Delta R.T. -0.05 min

Lab File: VX019462.D

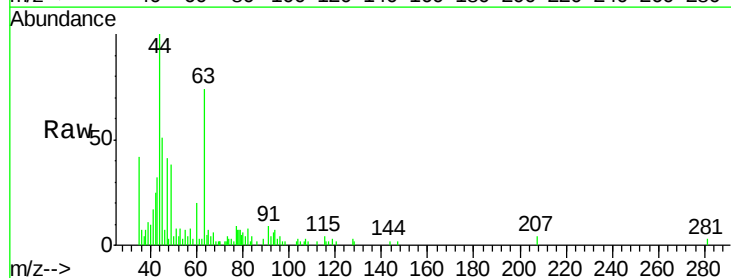
Acq: 18 Nov 2020 19:45

Tgt Ion: 64 Resp: 201

Ion Ratio Lower Upper

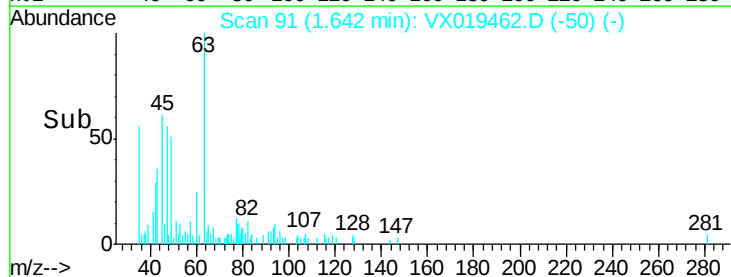
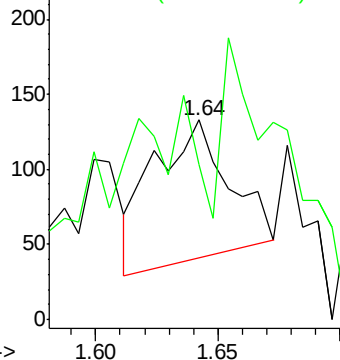
64 100

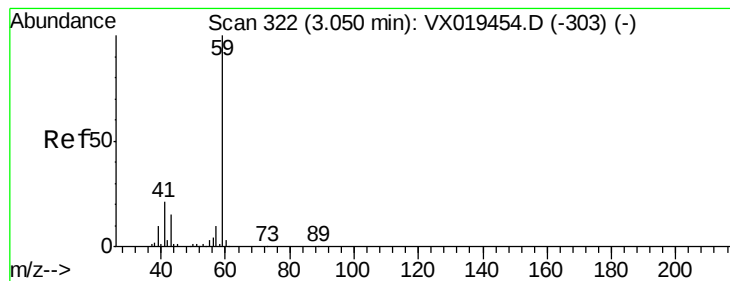
66 0.0 26.1 39.1#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



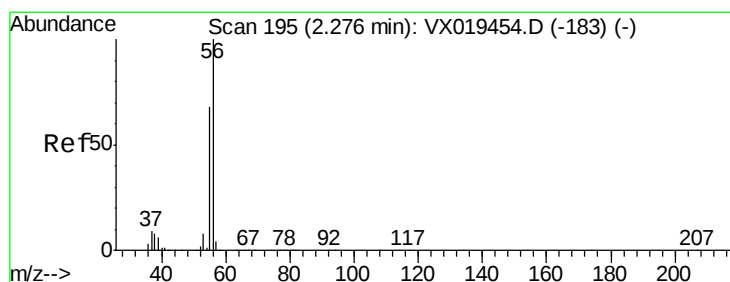
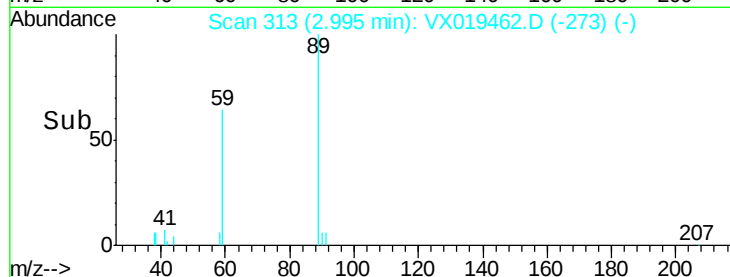
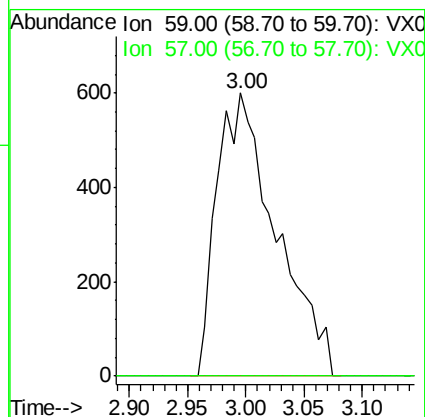
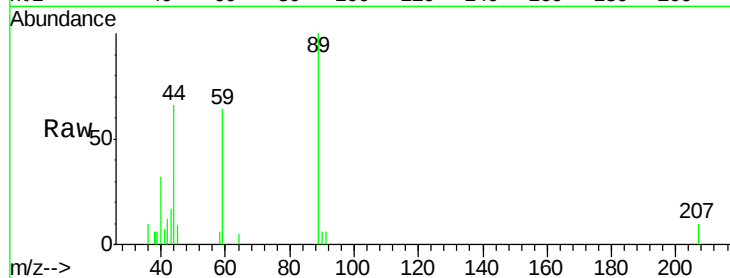


#11

Tert butyl alcohol
 Concen: 2.905 ug/l
 RT: 3.00 min Scan# 313
 Delta R.T. -0.05 min
 Lab File: VX019462.D
 Acq: 18 Nov 2020 19:45

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB178-EB-20201116

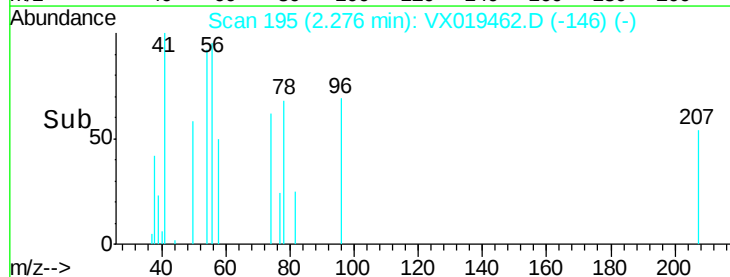
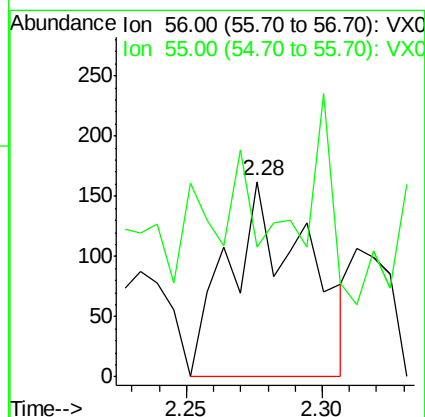
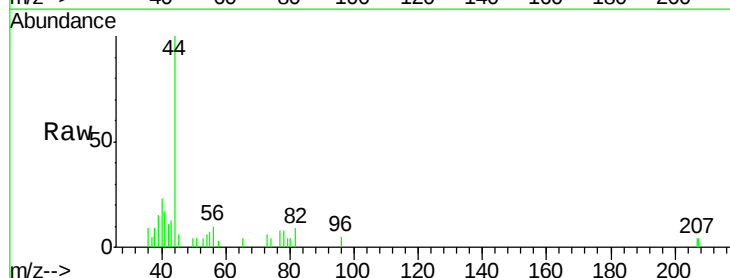
Tot Ion: 59 Resp: 2116
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

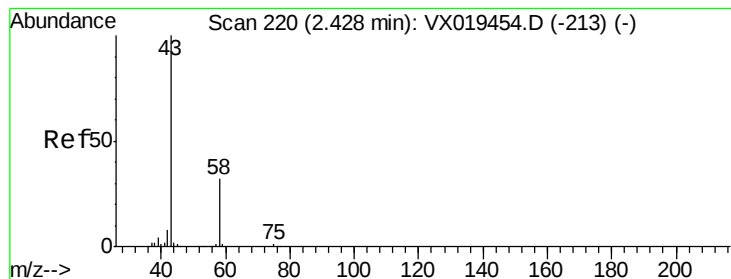


#13

Acrolein
 Concen: 0.613 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. 0.00 min
 Lab File: VX019462.D
 Acq: 18 Nov 2020 19:45

Tgt Ion: 56 Resp: 320
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.9 83.9#





#16

Acetone

Concen: 4.551 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.01 min

Lab File: VX019462.D

Acq: 18 Nov 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

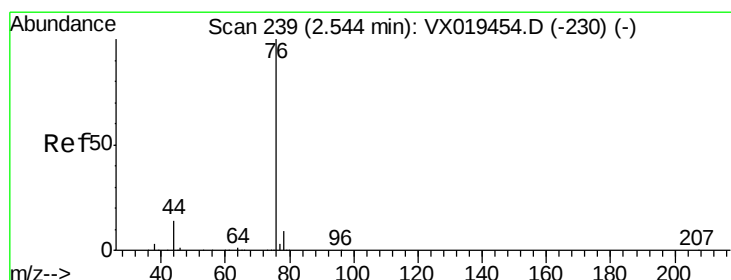
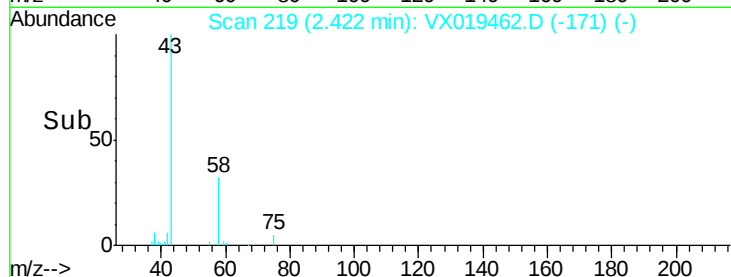
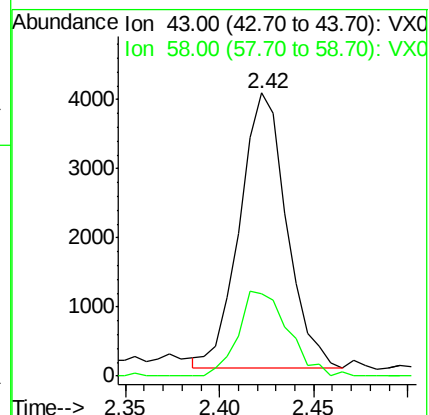
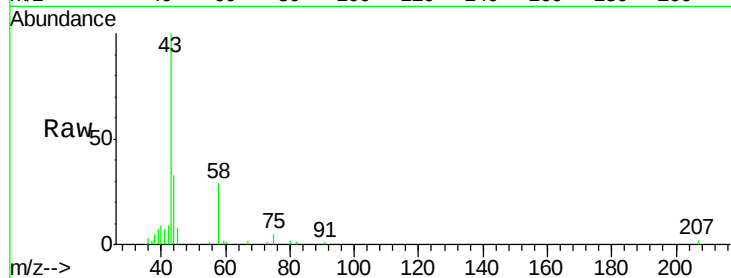
BP-VPB178-EB-20201116

Tot Ion: 43 Resp: 6898

Ion Ratio Lower Upper

43 100

58 30.2 25.4 38.0



#17

Carbon Disulfide

Concen: 0.306 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.01 min

Lab File: VX019462.D

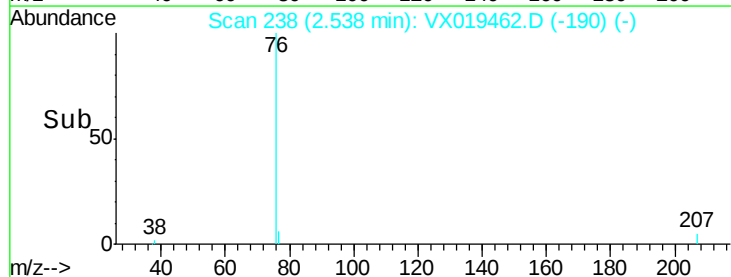
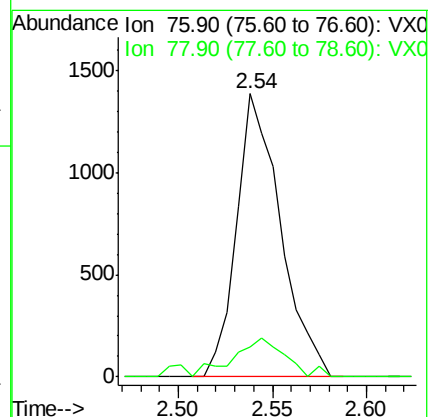
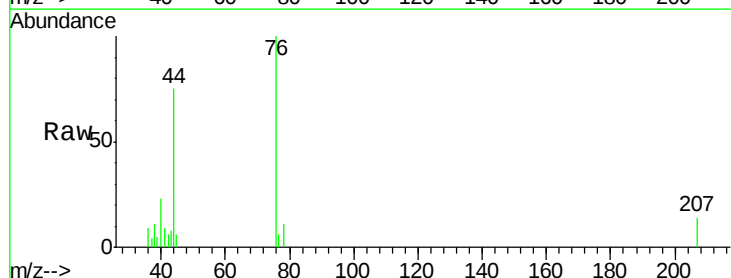
Acq: 18 Nov 2020 19:45

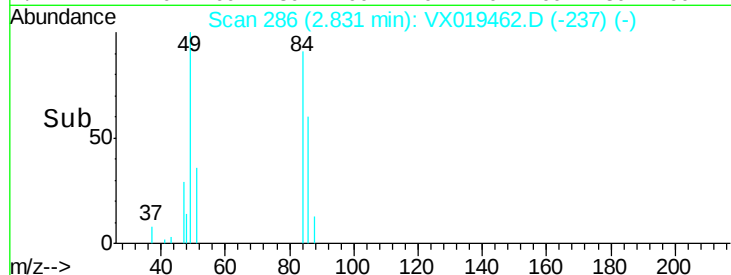
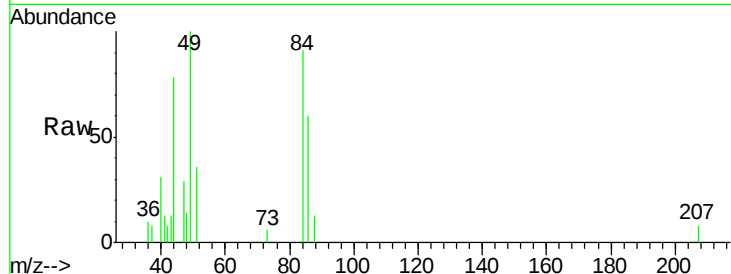
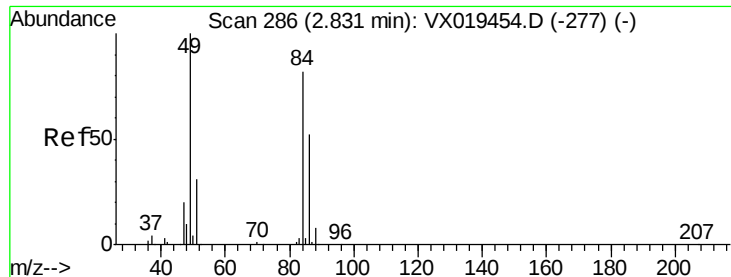
Tgt Ion: 76 Resp: 2236

Ion Ratio Lower Upper

76 100

78 10.6 7.4 11.2

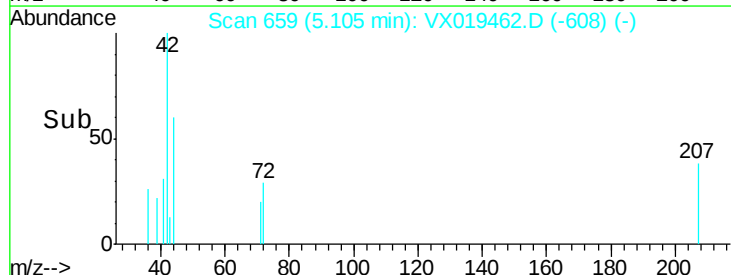
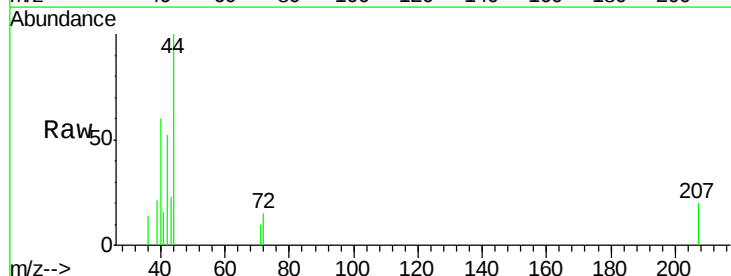
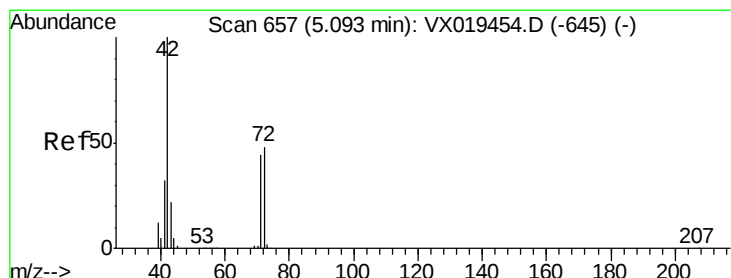
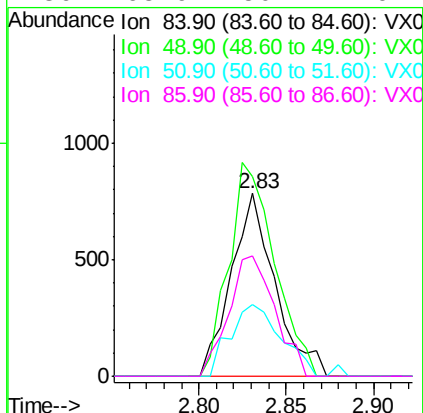




#20
Methylene Chloride
Concen: 0.398 ug/l
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX019462.D
Acq: 18 Nov 2020 19:45

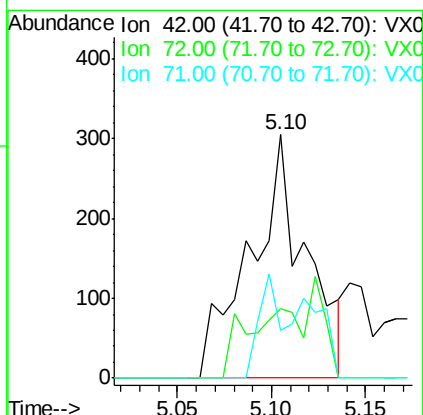
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB178-EB-20201116

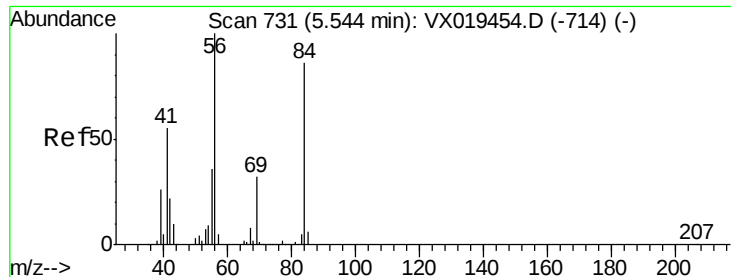
Tot Ion:	84	Resp:	1365
Ion	Ratio	Lower	Upper
84	100		
49	109.4	97.6	146.4
51	39.5	30.6	45.8
86	65.9	50.7	76.1



#29
Tetrahydrofuran
Concen: 0.429 ug/l
RT: 5.10 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX019462.D
Acq: 18 Nov 2020 19:45

Tgt Ion:	42	Resp:	625
Ion	Ratio	Lower	Upper
42	100		
72	28.3	38.1	57.1#
71	19.2	34.6	51.8#





#31

Cvclohexane

Concen: 1.214 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX019462.D

Acq: 18 Nov 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-EB-20201116

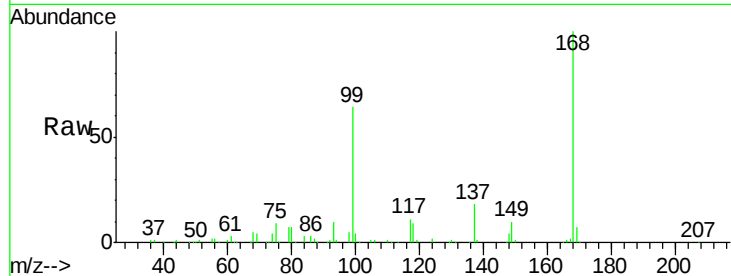
Tot Ion: 56 Resp: 5977

Ion Ratio Lower Upper

56 100

69 181.0 25.2 37.8#

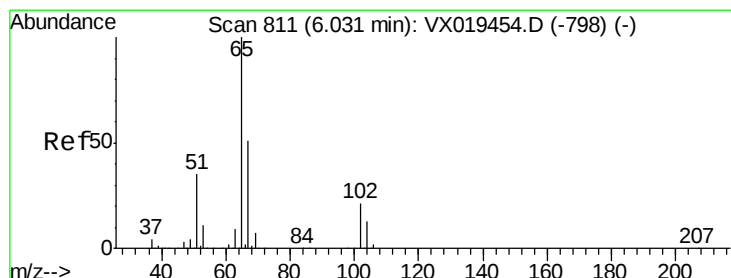
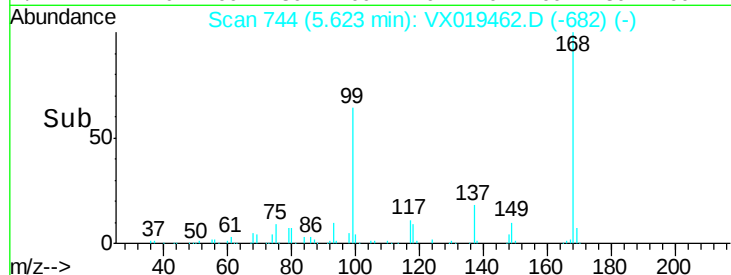
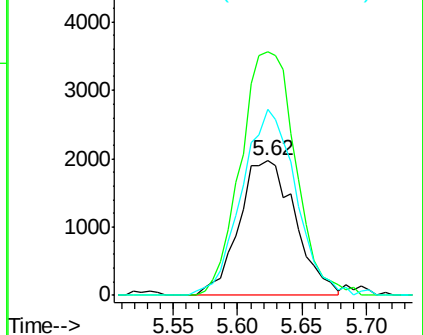
84 137.9 68.5 102.7#



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: 45.211 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.01 min

Lab File: VX019462.D

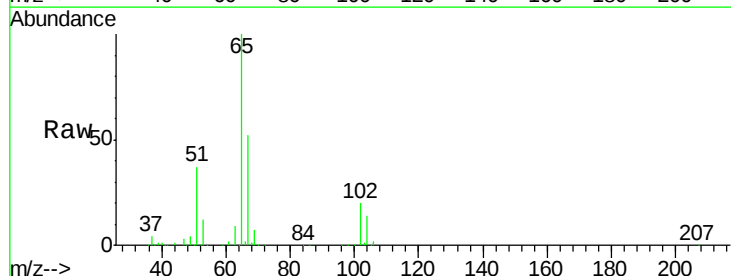
Acq: 18 Nov 2020 19:45

Tgt Ion: 65 Resp: 177180

Ion Ratio Lower Upper

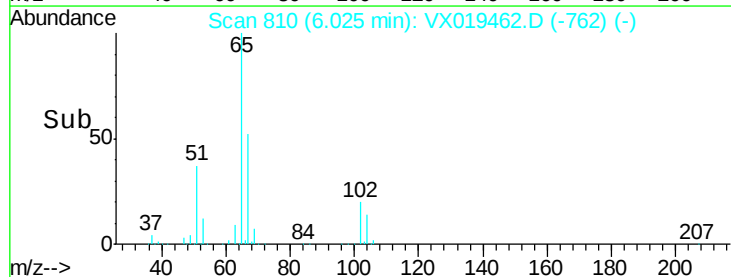
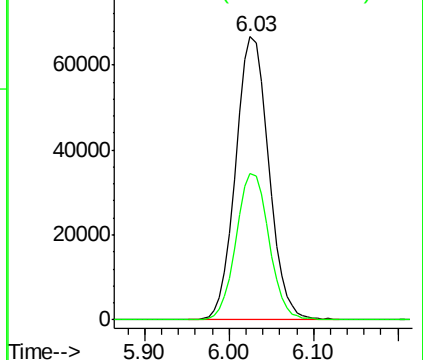
65 100

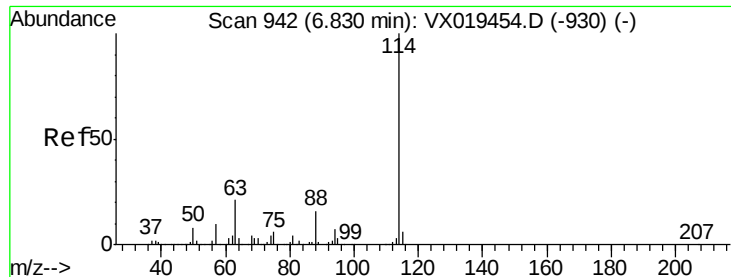
67 51.6 0.0 102.4



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: VX019462.D

Acq: 18 Nov 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-EB-20201116

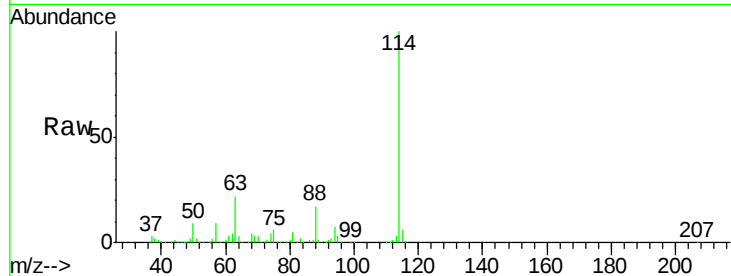
Tot Ion:114 Resp: 416853

Ion Ratio Lower Upper

114 100

63 21.9 0.0 42.0

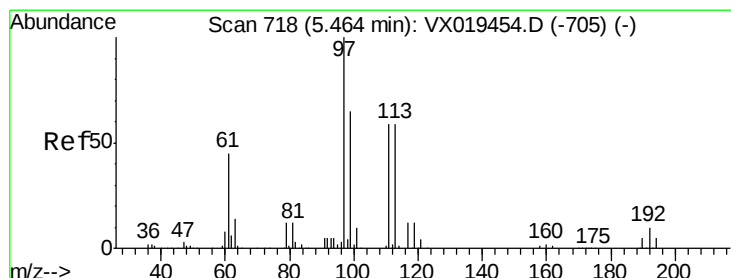
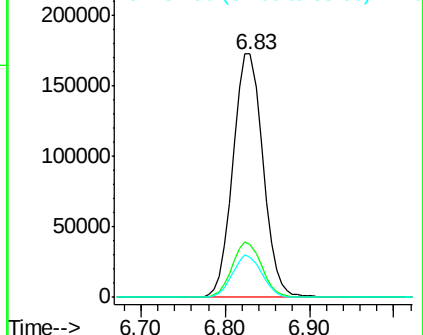
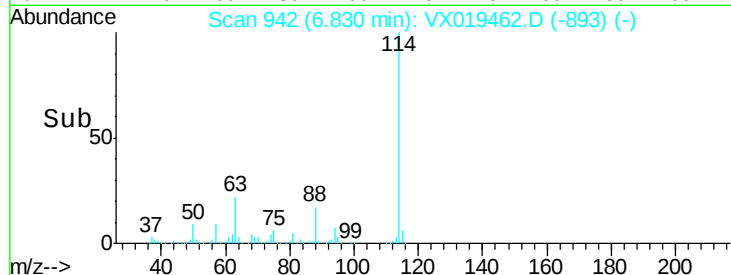
88 16.5 0.0 32.0



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: 47.101 ug/l

RT: 5.46 min Scan# 717

Delta R.T. -0.01 min

Lab File: VX019462.D

Acq: 18 Nov 2020 19:45

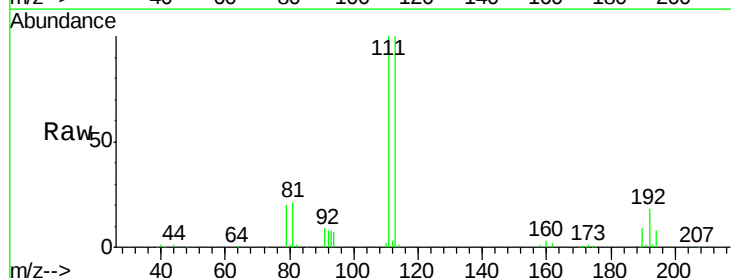
Tgt Ion:113 Resp: 129194

Ion Ratio Lower Upper

113 100

111 102.2 82.2 123.4

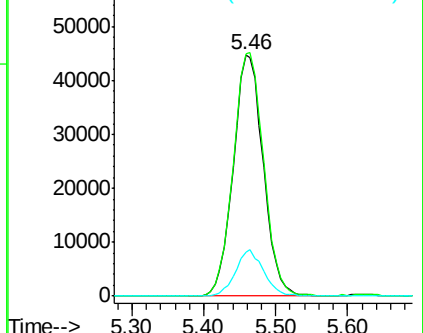
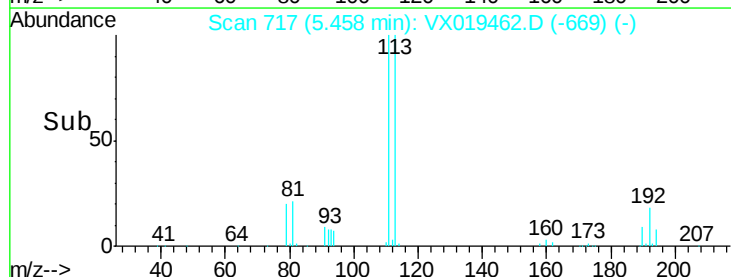
192 18.0 14.2 21.4

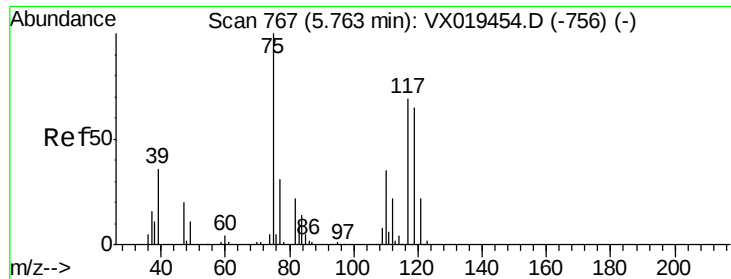


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

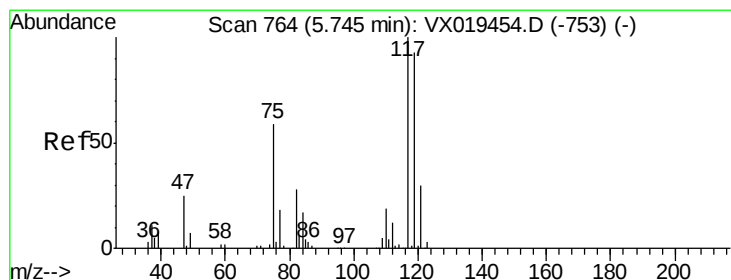
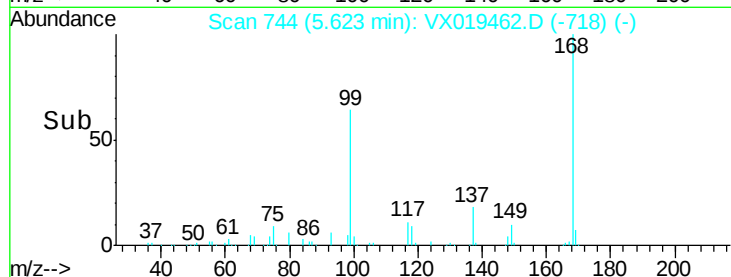
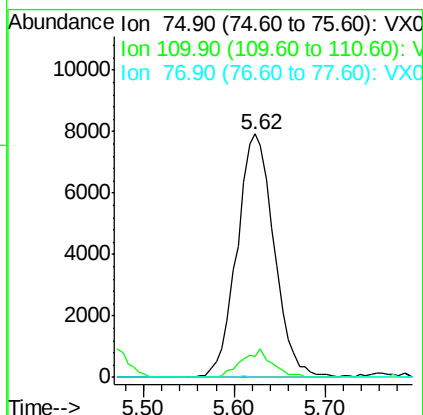
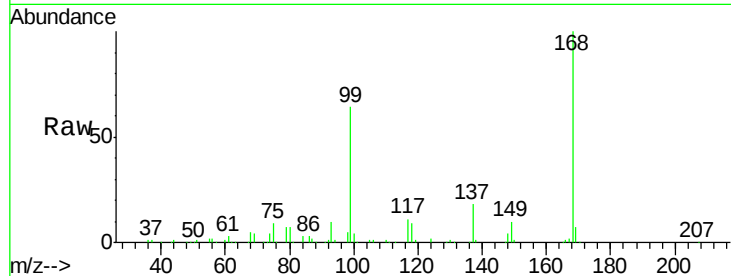




#36
 1,1-Dichloropropene
 Concen: 5.348 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.14 min
 Lab File: VX019462.D
 Acq: 18 Nov 2020 19:45

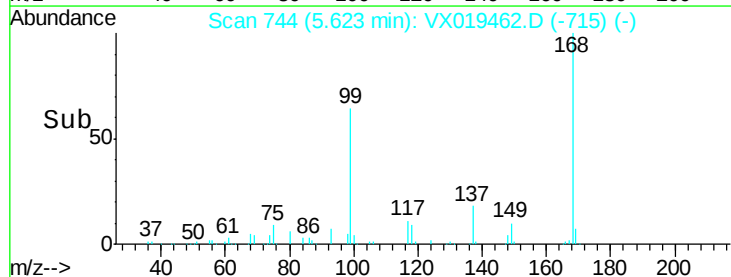
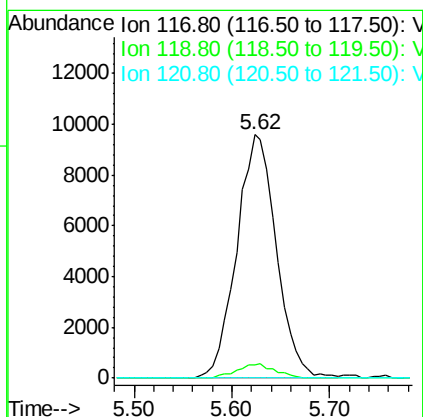
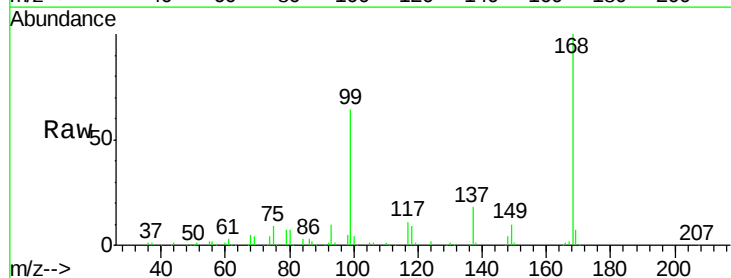
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB178-EB-20201116

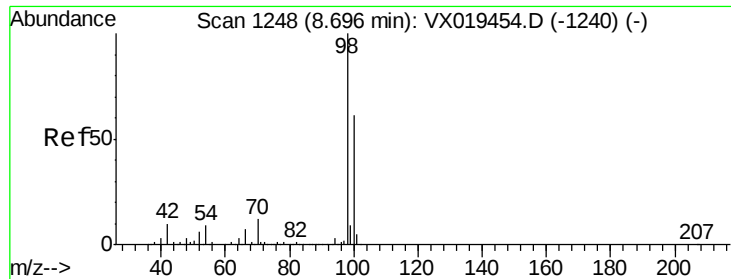
Tot Ion: 75 Resp: 22345
 Ion Ratio Lower Upper
 75 100
 110 9.5 17.0 50.9#
 77 0.1 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.538 ug/l
 RT: 5.62 min Scan# 744
 Delta R.T. -0.12 min
 Lab File: VX019462.D
 Acq: 18 Nov 2020 19:45

Tgt Ion: 117 Resp: 26946
 Ion Ratio Lower Upper
 117 100
 119 5.4 74.1 111.1#
 121 0.0 23.6 35.4#

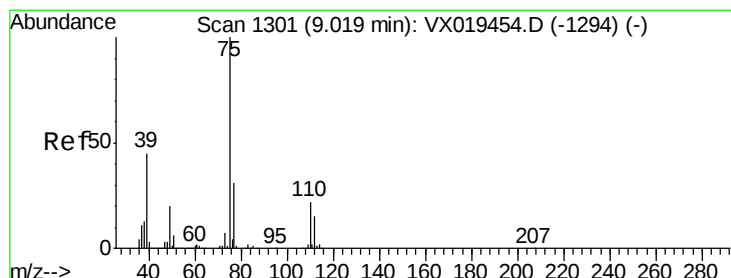
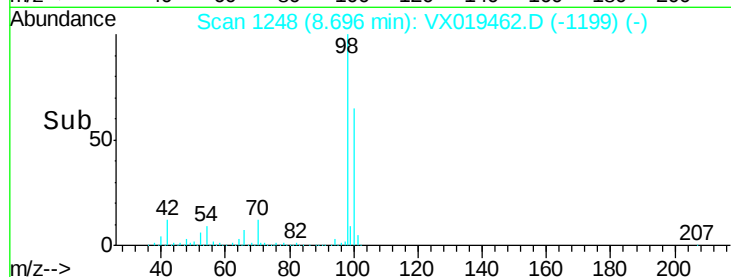
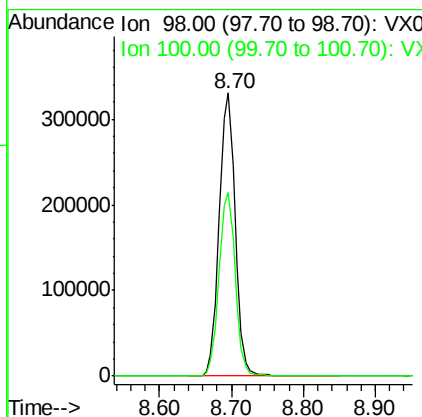
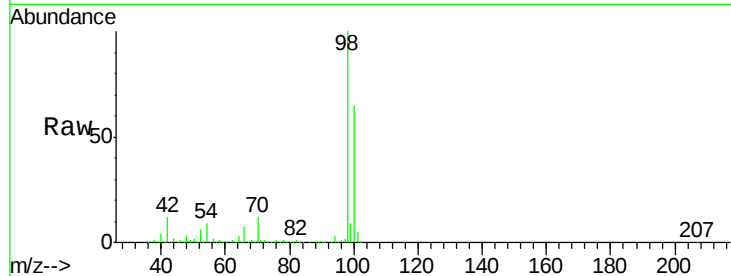




#50
Toluene-d8
Concen: 47.932 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX019462.D
Acq: 18 Nov 2020 19:45

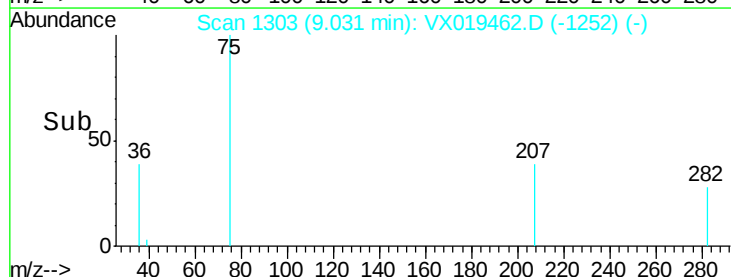
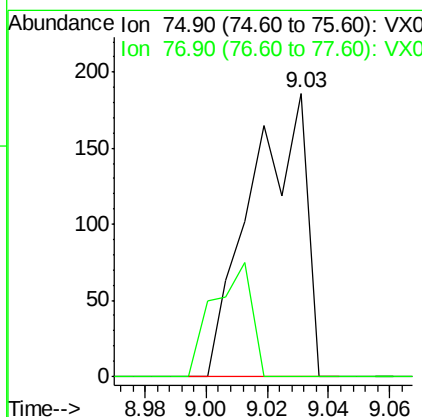
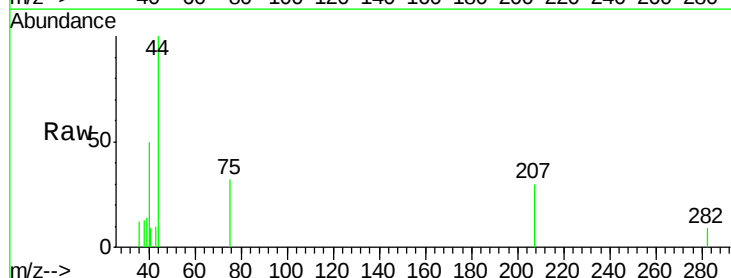
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB178-EB-20201116

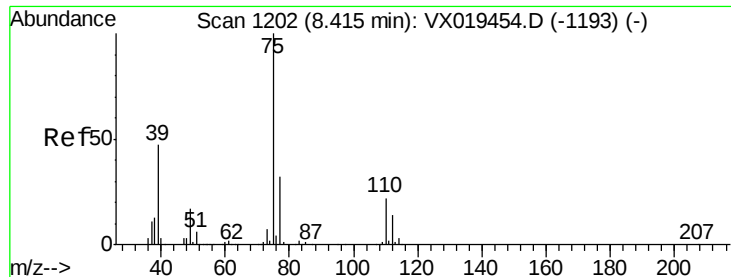
Tot Ion: 98 Resp: 510910
Ion Ratio Lower Upper
98 100
100 65.7 52.6 79.0



#53
t-1,3-Dichloropropene
Concen: 1.871 ug/l
RT: 9.03 min Scan# 1303
Delta R.T. 0.01 min
Lab File: VX019462.D
Acq: 18 Nov 2020 19:45

Tgt Ion: 75 Resp: 232
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.6#



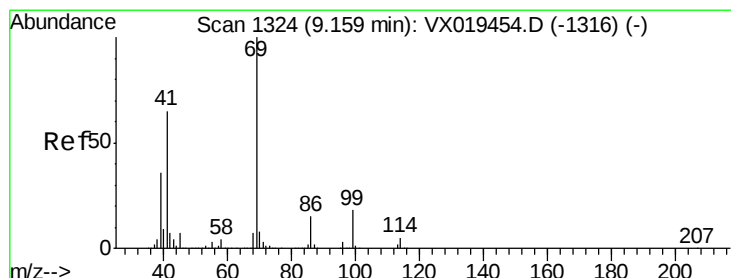
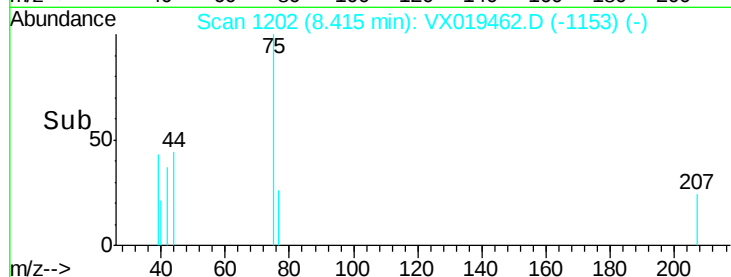
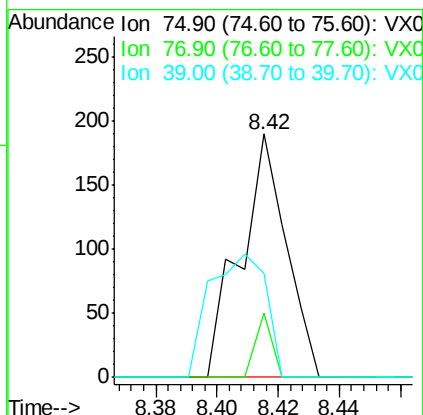
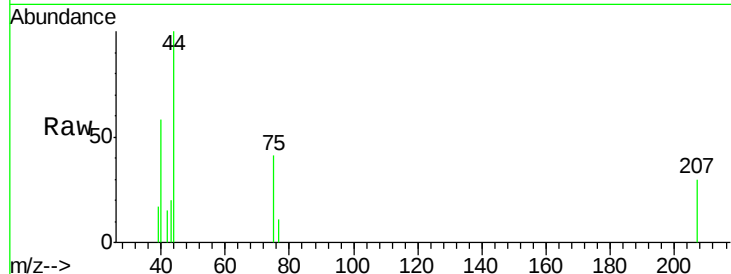


#54

cis-1,3-Dichloropropene
 Concen: 1.520 ug/l
 RT: 8.42 min Scan# 1202
 Delta R.T. 0.00 min
 Lab File: VX019462.D
 Acq: 18 Nov 2020 19:45

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB178-EB-20201116

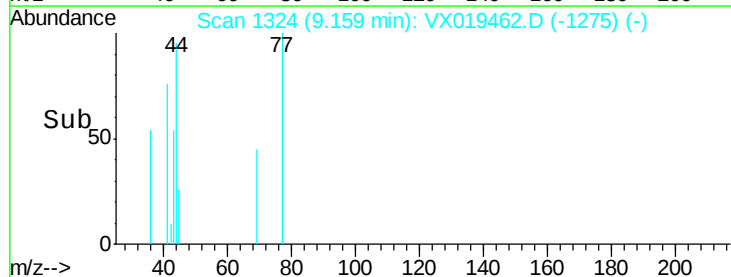
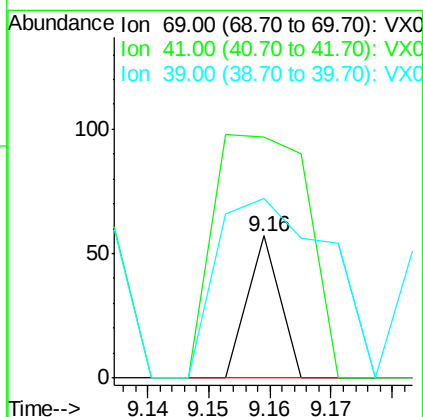
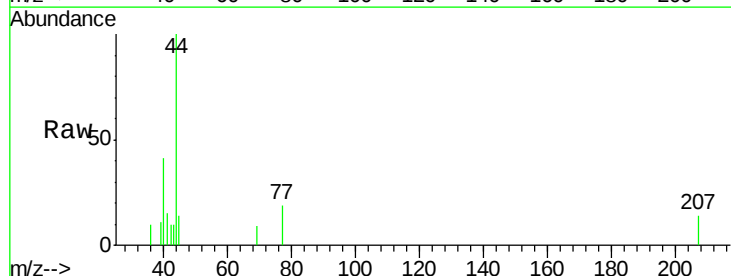
Tot Ion	Ratio	Lower	Upper
75	100		
77	26.3	25.4	38.2
39	42.6	37.4	56.2

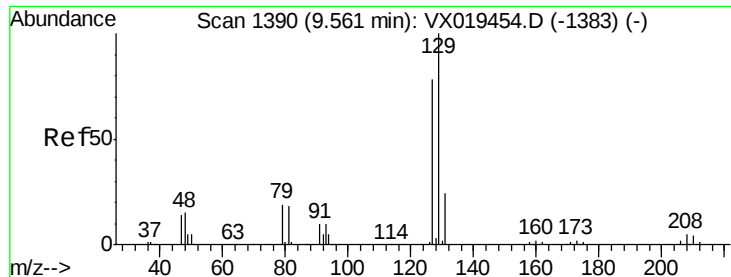


#56

Ethyl methacrylate
 Concen: 1.749 ug/l
 RT: 9.16 min Scan# 1324
 Delta R.T. 0.00 min
 Lab File: VX019462.D
 Acq: 18 Nov 2020 19:45

Tgt Ion	Ratio	Lower	Upper
69	100		
41	495.2	52.1	78.1#
39	523.8	29.5	44.3#





#60

Dibromochloromethane

Concen: 1.684 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.24 min

Lab File: VX019462.D

Acq: 18 Nov 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

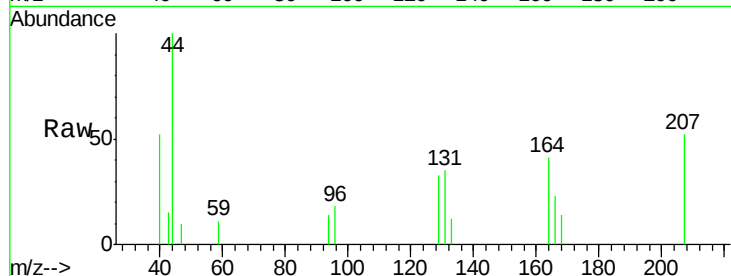
BP-VPB178-EB-20201116

Tot Ion:129 Resp: 217

Ion Ratio Lower Upper

129 100

127 0.0 38.8 116.4#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.32

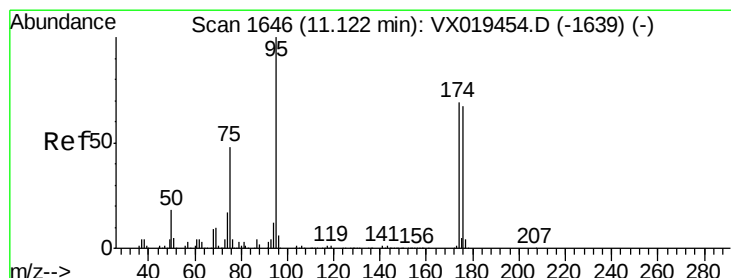
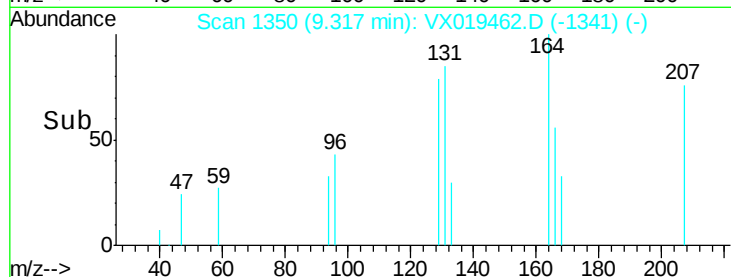
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 47.219 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX019462.D

Acq: 18 Nov 2020 19:45

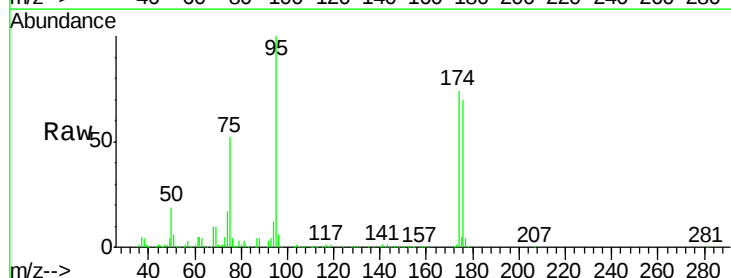
Tgt Ion: 95 Resp: 184906

Ion Ratio Lower Upper

95 100

174 71.2 0.0 141.4

176 68.9 0.0 137.6



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

200000

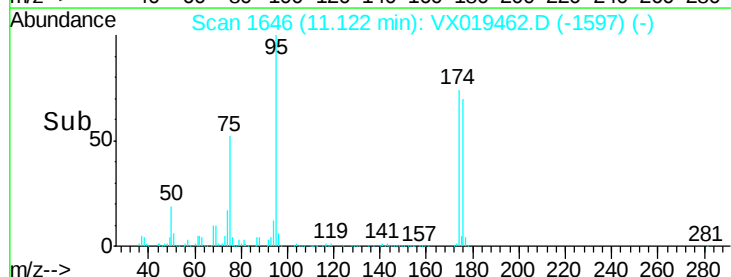
150000

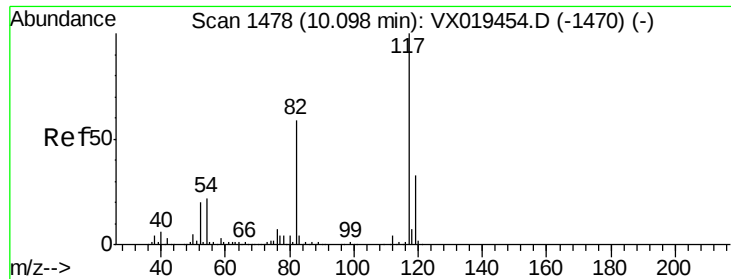
100000

50000

0

Time-->

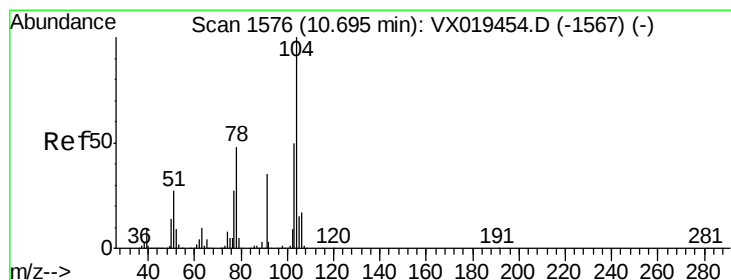
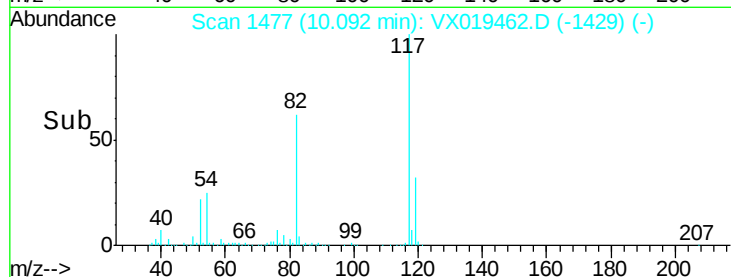
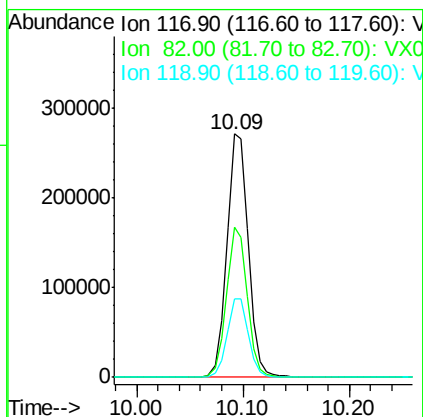
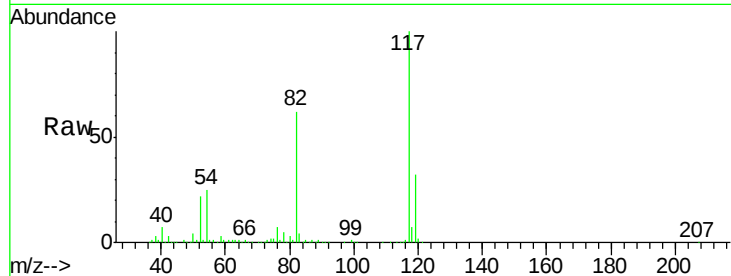




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. -0.01 min
Lab File: VX019462.D
Acq: 18 Nov 2020 19:45

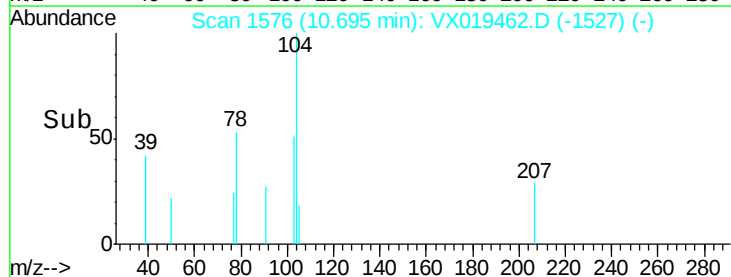
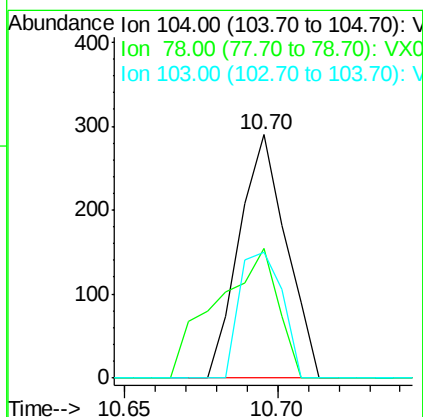
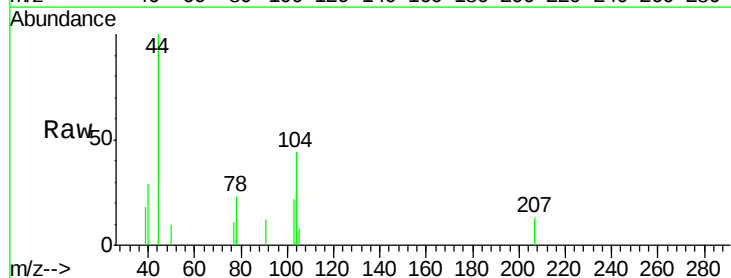
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB178-EB-20201116

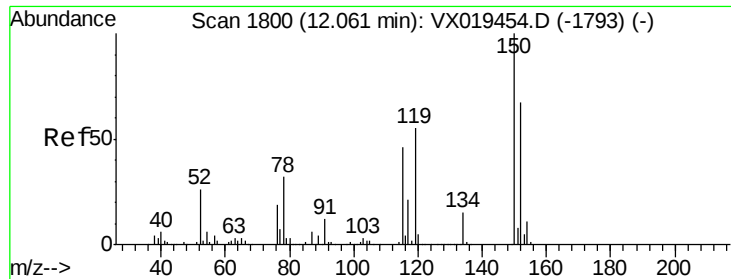
Tot Ion	Ratio	Lower	Upper
117	100		
82	61.9	47.4	71.2
119	32.3	26.3	39.5



#70
Styrene
Concen: 2.162 ug/l
RT: 10.70 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VX019462.D
Acq: 18 Nov 2020 19:45

Tgt Ion	Ratio	Lower	Upper
104	100		
78	70.5	42.7	64.1#
103	47.1	43.2	64.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX019462.D

Acq: 18 Nov 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-EB-20201116

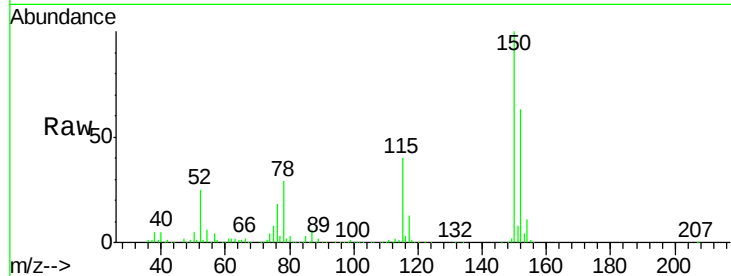
Tot Ion:152 Resp: 163620

Ion Ratio Lower Upper

152 100

115 64.0 44.9 134.7

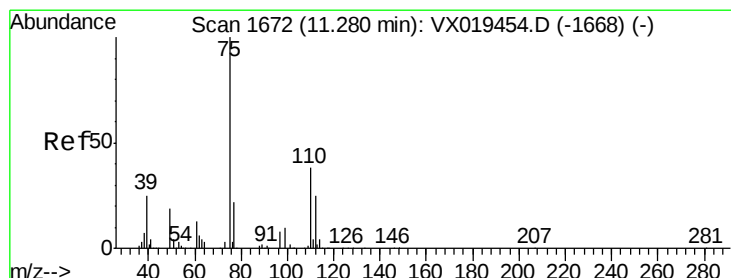
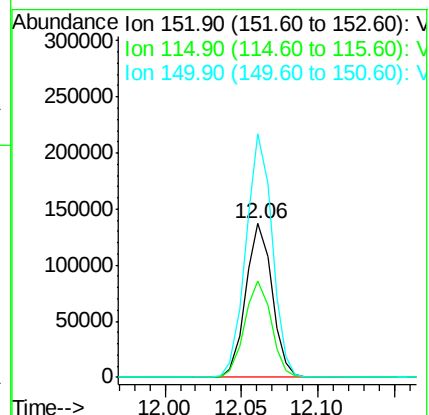
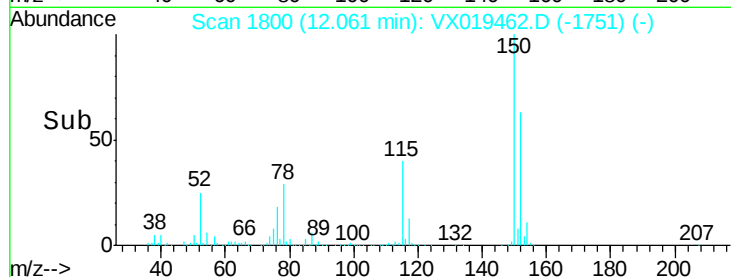
150 158.2 0.0 344.4



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: 25.265 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019462.D

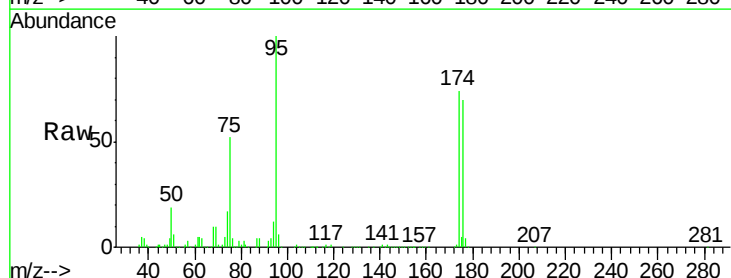
Acq: 18 Nov 2020 19:45

Tgt Ion: 75 Resp: 98556

Ion Ratio Lower Upper

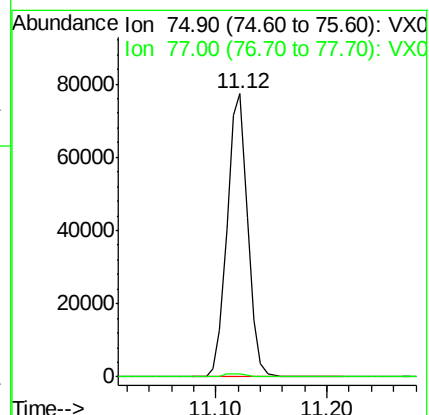
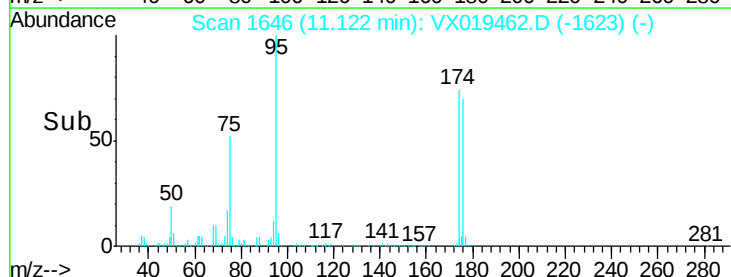
75 100

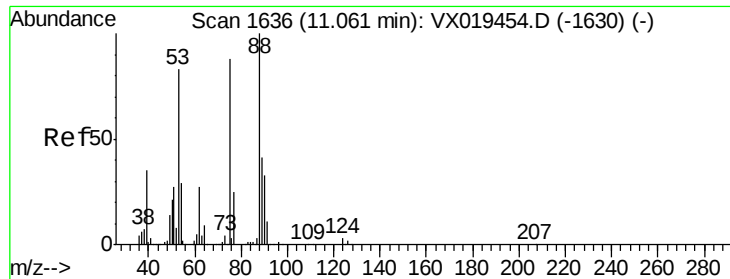
77 1.2 20.0 59.9#



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: 66.833 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX019462.D

Acq: 18 Nov 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-EB-20201116

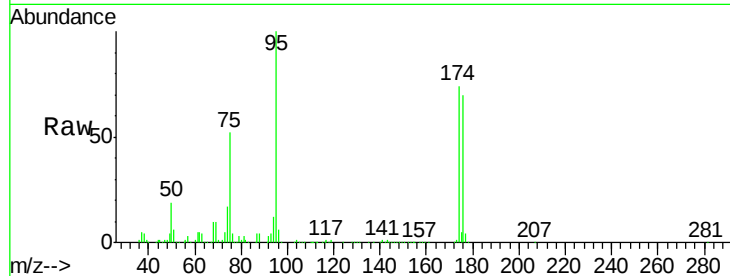
Tot Ion: 75 Resp: 98556

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

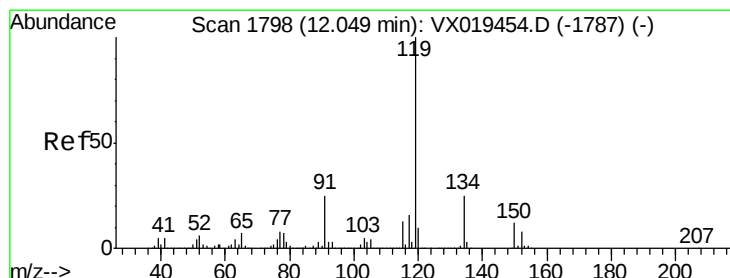
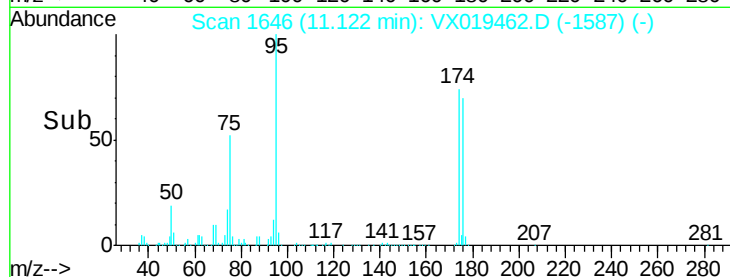
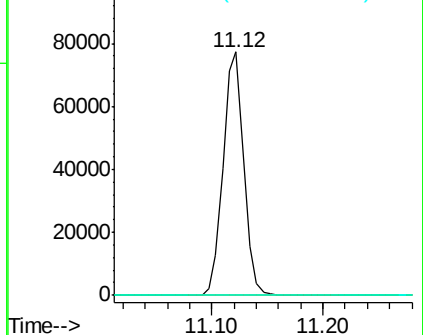
89 0.0 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#86

p-Isopropyltoluene

Concen: 1.642 ug/l

RT: 12.05 min Scan# 1798

Delta R.T. 0.00 min

Lab File: VX019462.D

Acq: 18 Nov 2020 19:45

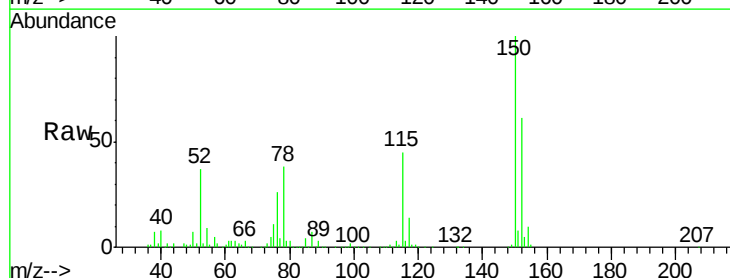
Tgt Ion: 119 Resp: 426

Ion Ratio Lower Upper

119 100

134 69.7 12.8 38.3#

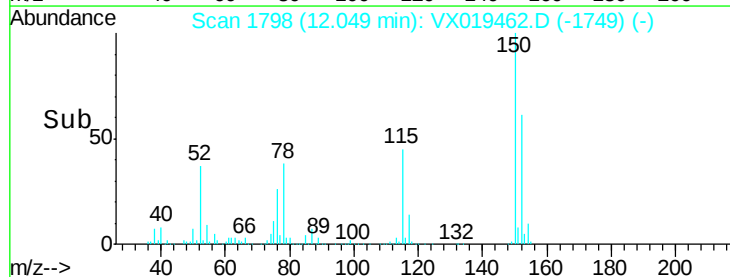
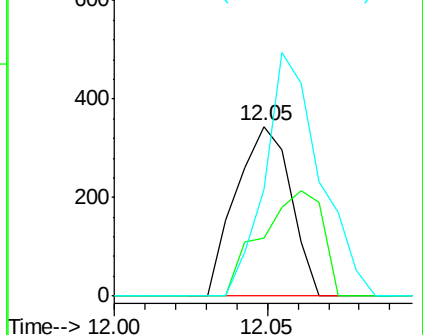
91 144.6 12.6 37.6#

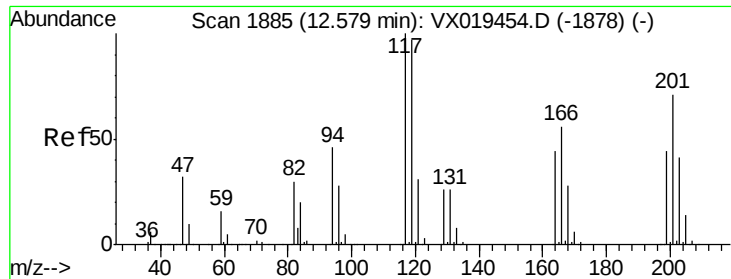


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0

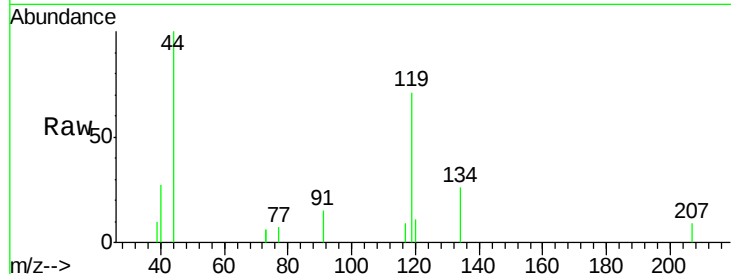




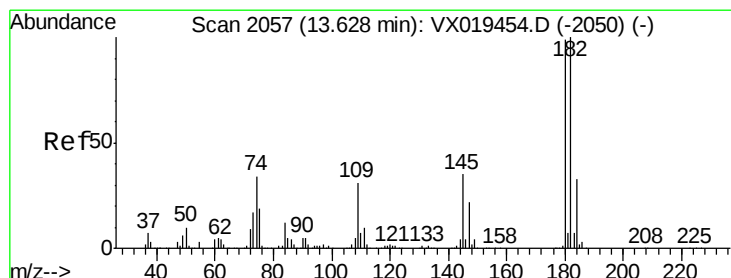
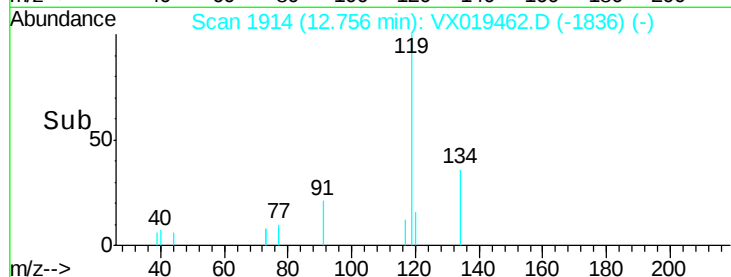
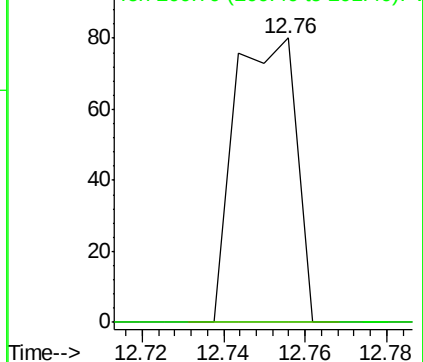
#90
Hexachloroethane
Concen: 3.239 ug/l
RT: 12.76 min Scan# 1914
Delta R.T. 0.18 min
Lab File: VX019462.D
Acq: 18 Nov 2020 19:45

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB178-EB-20201116

Tot Ion:117 Resp: 84
Ion Ratio Lower Upper
117 100
201 0.0 35.8 107.3#

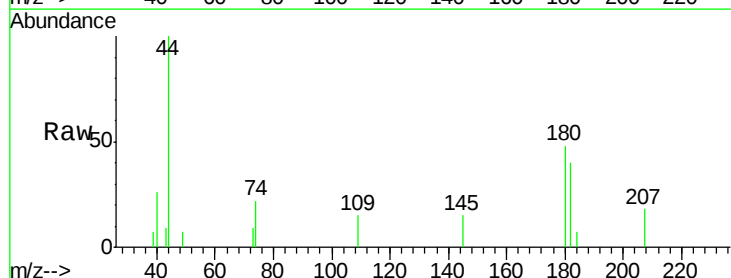


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

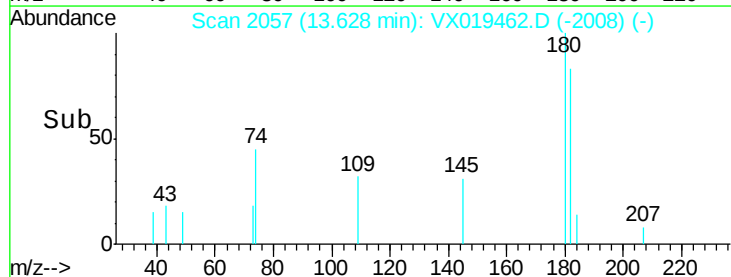
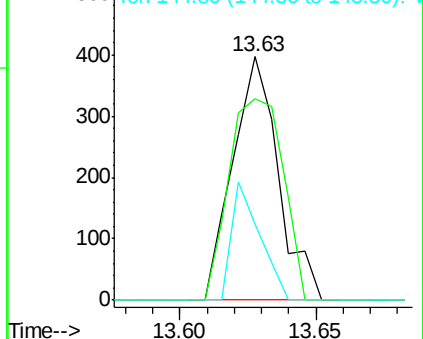


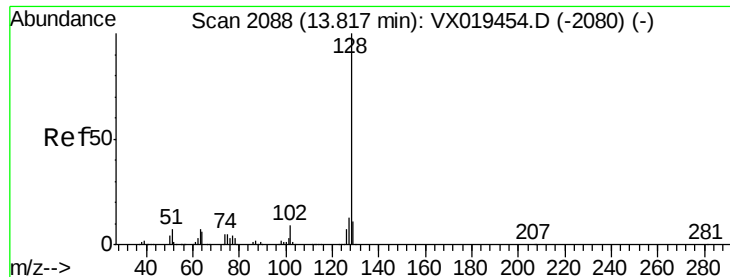
#93
1,2,4-Trichlorobenzene
Concen: 2.877 ug/l
RT: 13.63 min Scan# 2057
Delta R.T. 0.00 min
Lab File: VX019462.D
Acq: 18 Nov 2020 19:45

Tgt Ion:180 Resp: 461
Ion Ratio Lower Upper
180 100
182 98.7 48.1 144.4
145 29.9 16.9 50.6



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 2.401 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX019462.D

Acq: 18 Nov 2020 19:45

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB178-EB-20201116

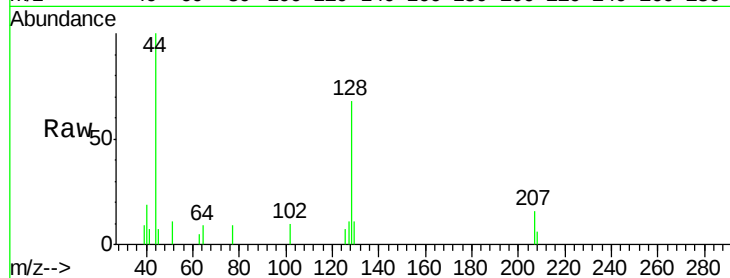
Tot Ion:128 Resp: 1123

Ion Ratio Lower Upper

128 100

127 10.3 10.2 15.2

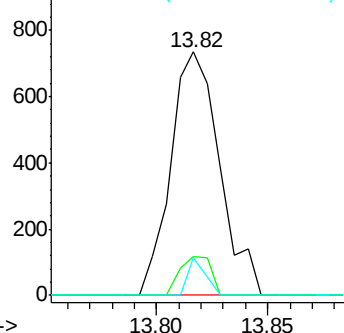
129 5.6 8.8 13.2#



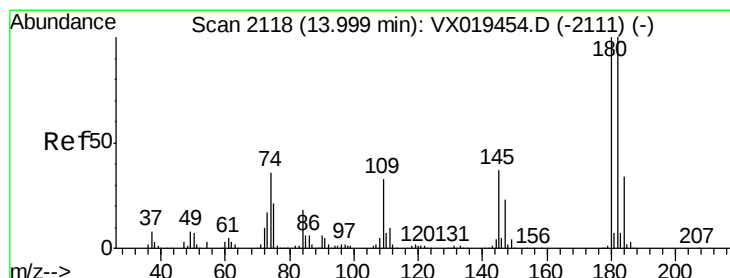
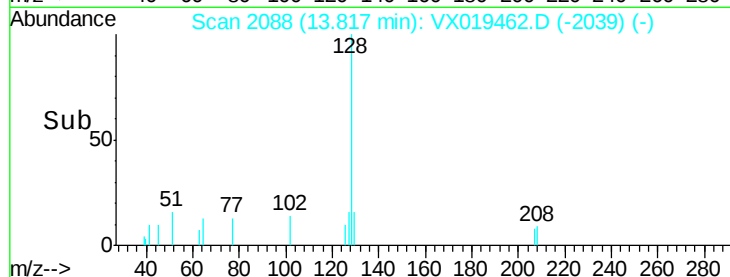
Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 2.543 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. 0.01 min

Lab File: VX019462.D

Acq: 18 Nov 2020 19:45

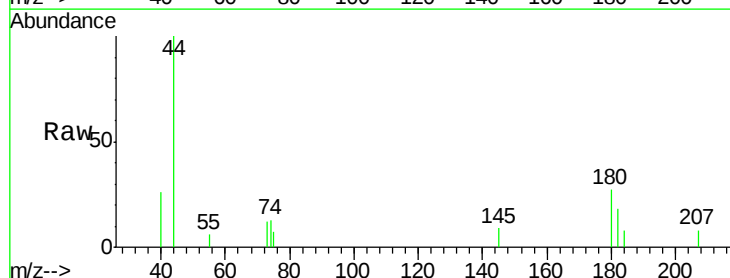
Tgt Ion:180 Resp: 384

Ion Ratio Lower Upper

180 100

182 98.7 49.0 147.0

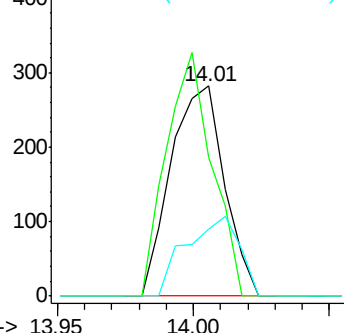
145 37.8 17.6 52.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V



Time-->

