

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111020\
 Data File : VN064524.D
 Acq On : 10 Nov 2020 14:35
 Operator : JC/MD
 Sample : L4684-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB178-TB-20201106

Quant Time: Nov 11 01:48:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 12:09:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	223986	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	443478	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	458843	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	161771	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	215502	55.24	ug/l	0.00
Spiked Amount			Recovery	=	110.48%	
35) Dibromofluoromethane	7.55	113	160653	53.21	ug/l	0.00
Spiked Amount			Recovery	=	106.42%	
50) Toluene-d8	10.06	98	570808	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
62) 4-Bromofluorobenzene	12.38	95	211647	47.95	ug/l	0.00
Spiked Amount			Recovery	=	95.90%	

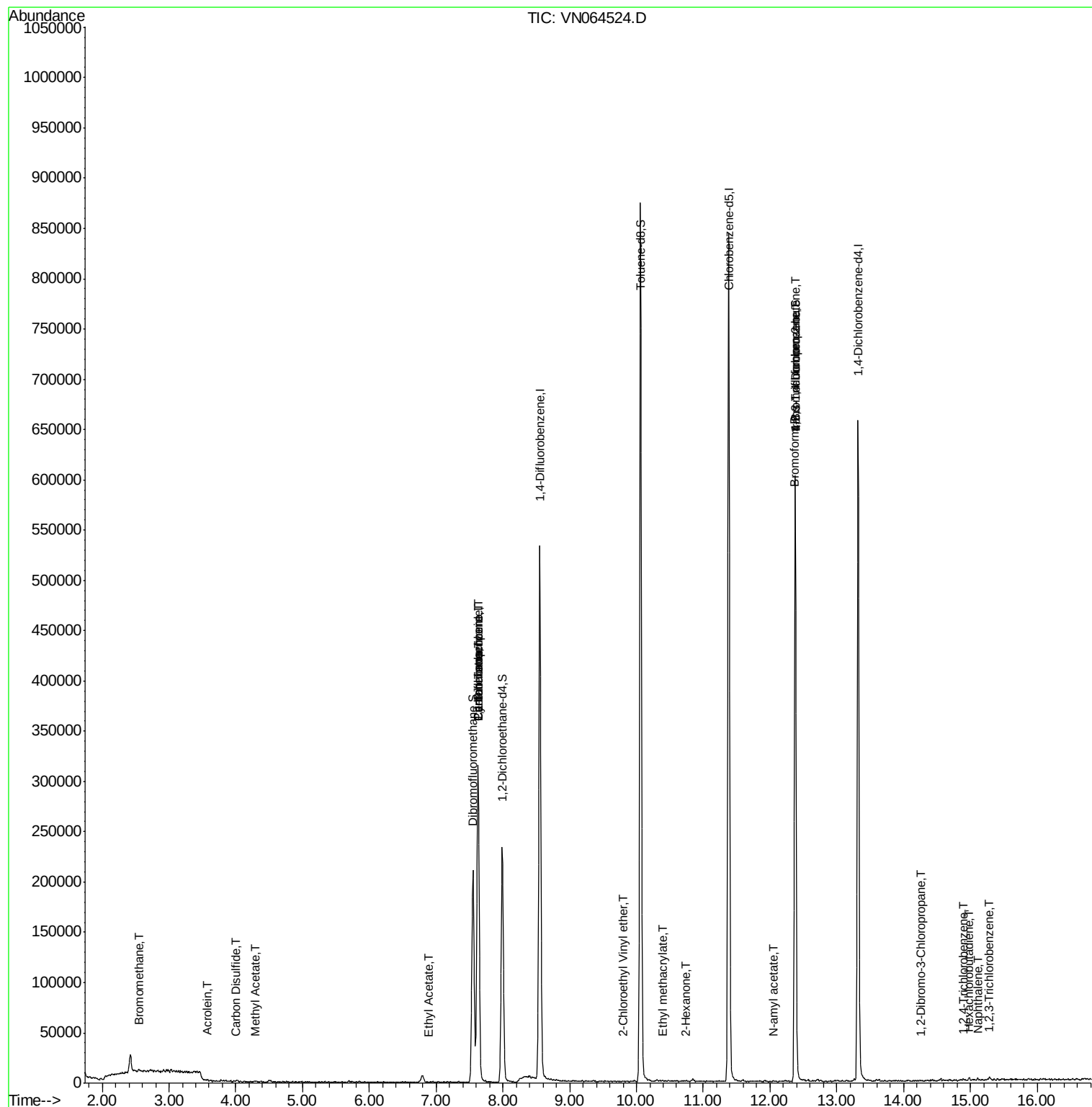
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	729	0.314	ug/l	94
13) Acrolein	3.56	56	291	1.090	ug/l	99
17) Carbon Disulfide	4.00	76	2192	0.306	ug/l #	64
18) Methyl Acetate	4.30	43	1261	0.432	ug/l #	55
31) Cyclohexane	7.62	56	6877	1.450	ug/l #	26
36) 1,1-Dichloropropene	7.63	75	22139	4.725	ug/l #	53
37) Ethyl Acetate	6.88	43	107	0.785	ug/l #	71
38) Carbon Tetrachloride	7.62	117	25091	5.011	ug/l #	20
56) Ethyl methacrylate	10.40	69	29	1.846	ug/l #	11
58) 2-Chloroethyl Vinyl ether	9.79	63	29	21.548	ug/l #	51
59) 2-Hexanone	10.73	43	454	4.152	ug/l	78
71) Bromoform	12.36	173	385	1.408	ug/l #	29
74) N-amyl acetate	12.05	43	70	1.225	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	117884	30.076	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	117884	83.975	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.25	75	162	0.206	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.90	180	473	2.836	ug/l #	52
94) Hexachlorobutadiene	14.98	225	578	0.544	ug/l	71
95) Naphthalene	15.11	128	2186	3.851	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.28	180	494	2.961	ug/l #	56

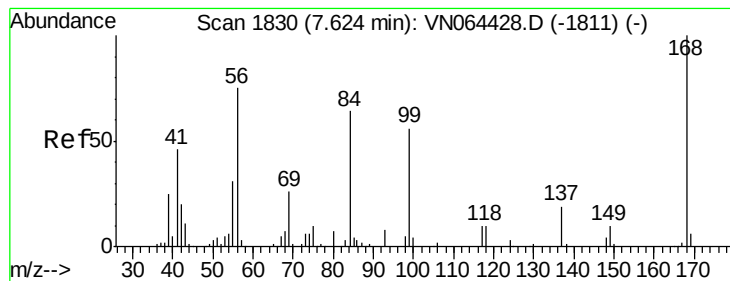
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 9 Sample Multiplier: 1

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Quant Time: Nov 11 01:48:14 2020
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Quant Title : SW846 8260
QLast Update : Wed Nov 04 12:09:03 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064524.D

Acq: 10 Nov 2020 14:35

Instrument :

MSVOA_N

ClientSampleId :

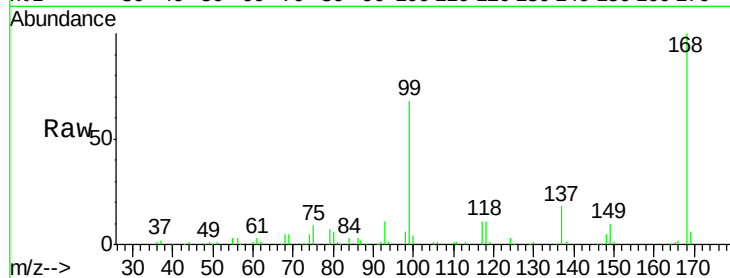
BP-VPB178-TB-20201106

Tot Ion:168 Resp: 223986

Ion Ratio Lower Upper

168 100

99 68.2 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

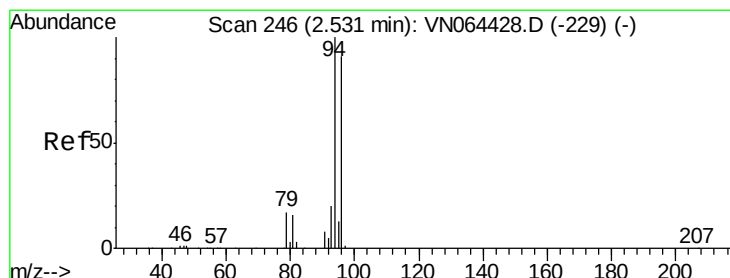
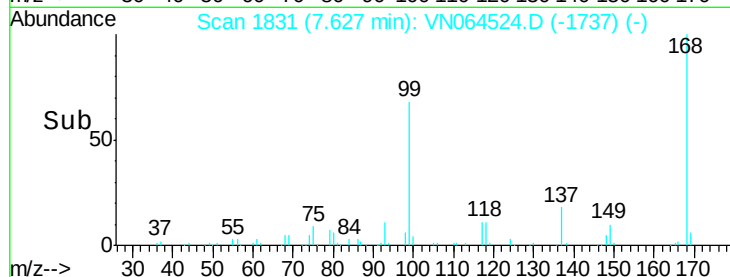
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.314 ug/l

RT: 2.55 min Scan# 253

Delta R.T. 0.02 min

Lab File: VN064524.D

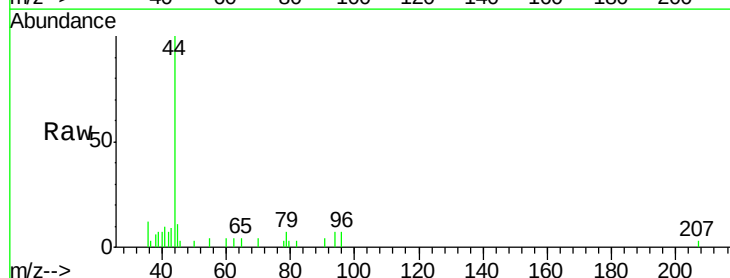
Acq: 10 Nov 2020 14:35

Tgt Ion: 94 Resp: 729

Ion Ratio Lower Upper

94 100

96 96.7 73.1 109.7



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.55

400

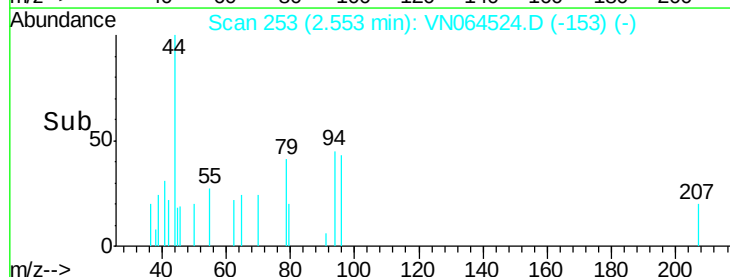
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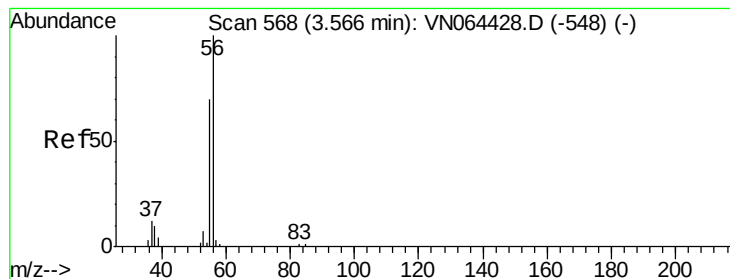
200

100

0

Time-->





#13

Acrolein

Concen: 1.090 ug/l

RT: 3.56 min Scan# 567

Delta R.T. -0.00 min

Lab File: VN064524.D

Acq: 10 Nov 2020 14:35

Instrument :

MSVOA_N

ClientSampleId :

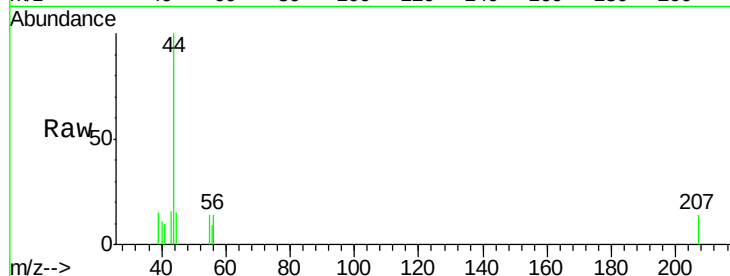
BP-VPB178-TB-20201106

Tot Ion: 56 Resp: 291

Ion Ratio Lower Upper

56 100

55 68.7 55.9 83.9



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.56

400

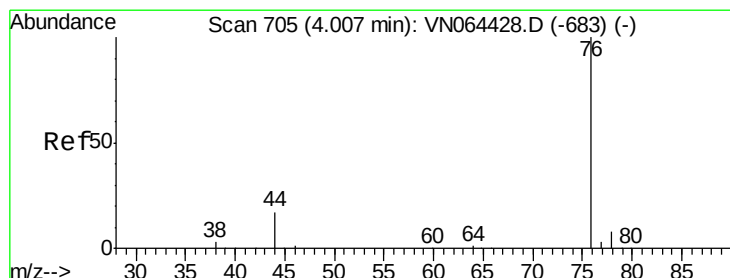
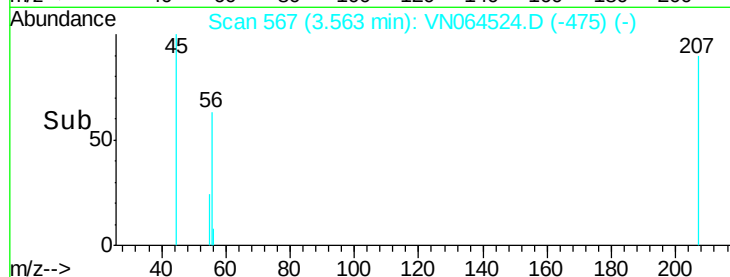
300

200

100

0

Time--> 3.54 3.56 3.58



#17

Carbon Disulfide

Concen: 0.306 ug/l

RT: 4.00 min Scan# 704

Delta R.T. -0.00 min

Lab File: VN064524.D

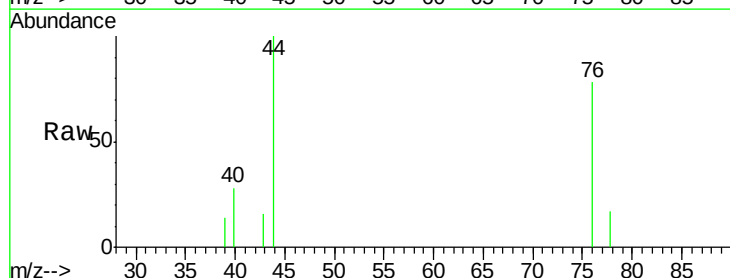
Acq: 10 Nov 2020 14:35

Tgt Ion: 76 Resp: 2192

Ion Ratio Lower Upper

76 100

78 21.2 6.8 10.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.00

1000

800

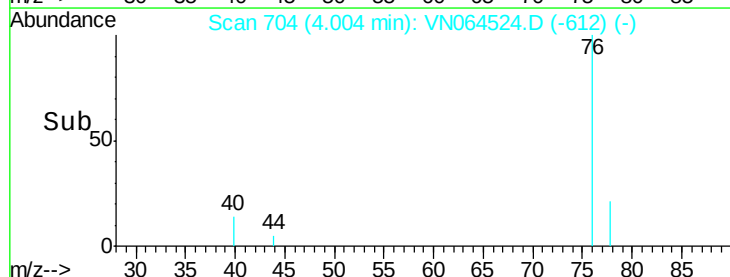
600

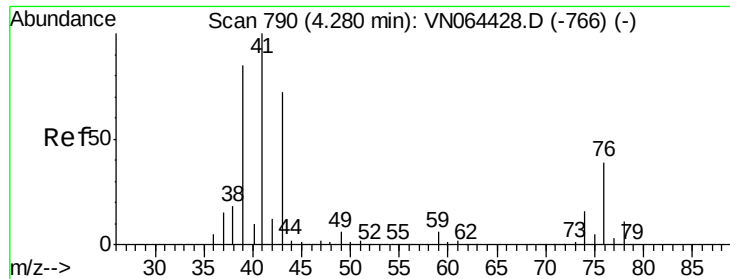
400

200

0

Time--> 3.95 4.00 4.05

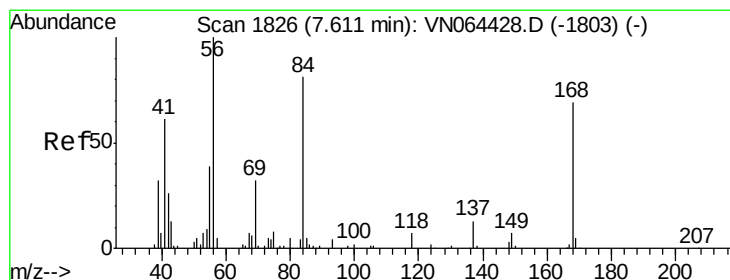
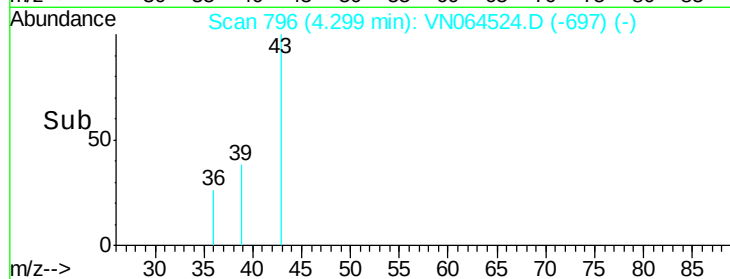
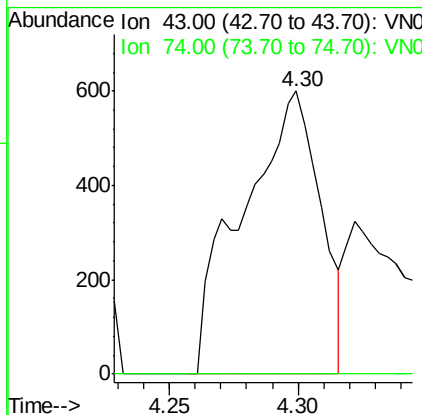
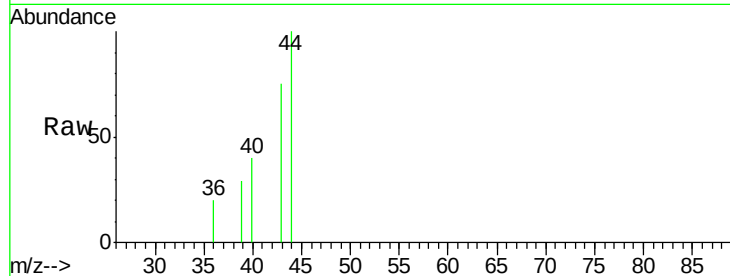




#18
Methvl Acetate
Concen: 0.432 ug/l
RT: 4.30 min Scan# 796
Delta R.T. 0.02 min
Lab File: VN064524.D
Acq: 10 Nov 2020 14:35

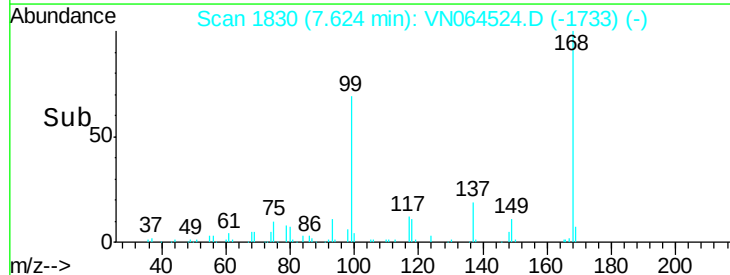
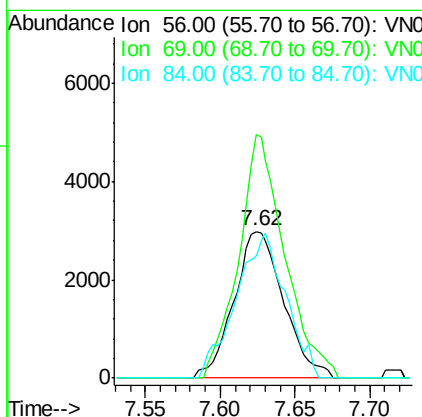
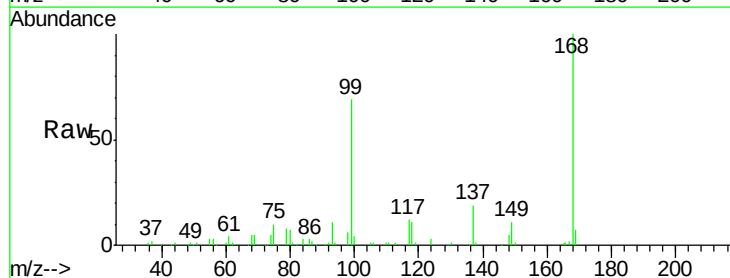
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB178-TB-20201106

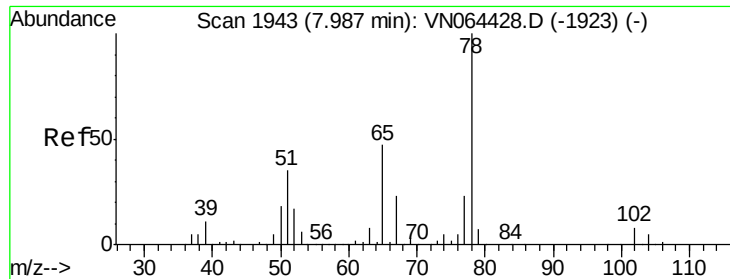
Tot Ion: 43 Resp: 1261
Ion Ratio Lower Upper
43 100
74 0.0 17.0 25.4#



#31
Cyclohexane
Concen: 1.450 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064524.D
Acq: 10 Nov 2020 14:35

Tgt Ion: 56 Resp: 6877
Ion Ratio Lower Upper
56 100
69 166.2 25.6 38.4#
84 83.7 63.0 94.6

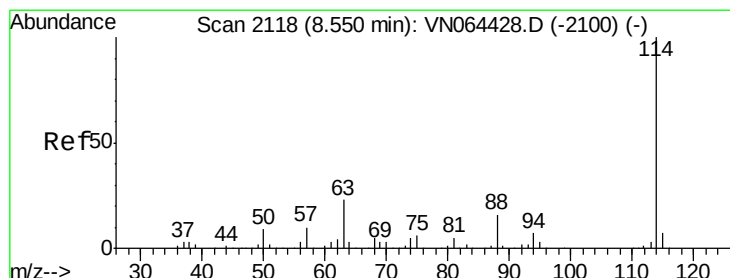
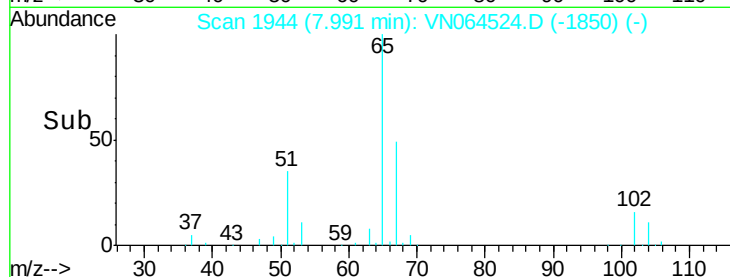
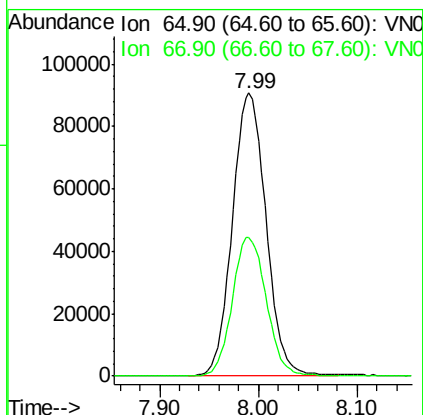
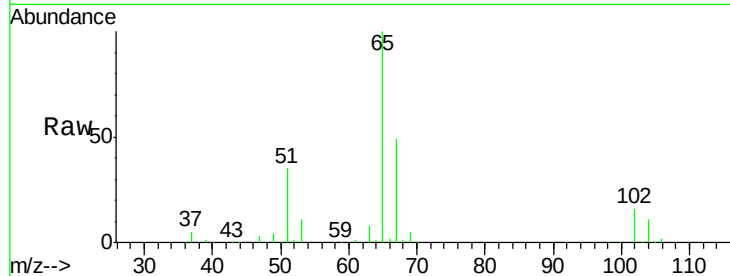




#33
 1,2-Dichloroethane-d4
 Concen: 55.236 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN064524.D
 Acq: 10 Nov 2020 14:35

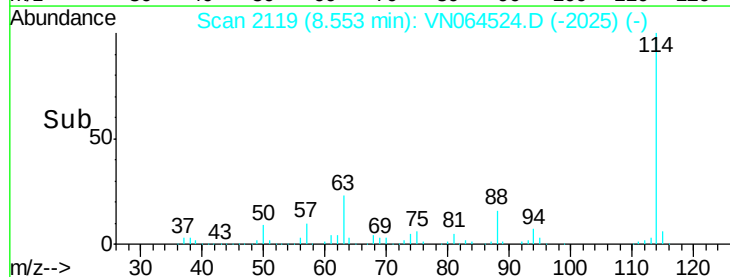
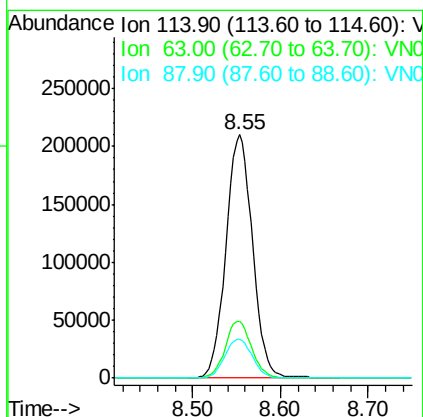
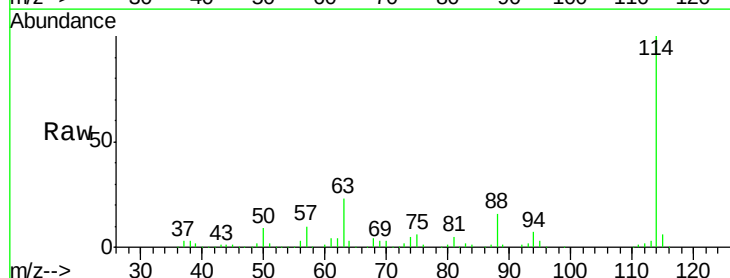
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB178-TB-20201106

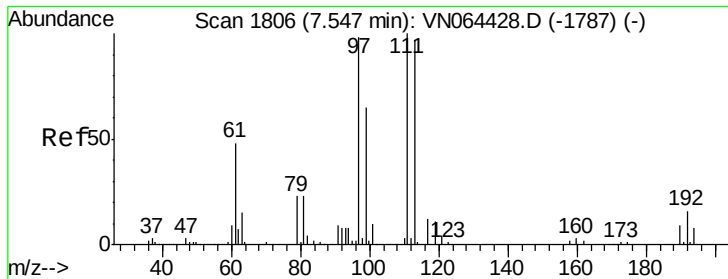
Tot Ion: 65 Resp: 215502
 Ion Ratio Lower Upper
 65 100
 67 49.7 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN064524.D
 Acq: 10 Nov 2020 14:35

Tgt Ion: 114 Resp: 443478
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 45.6
 88 16.1 0.0 32.8

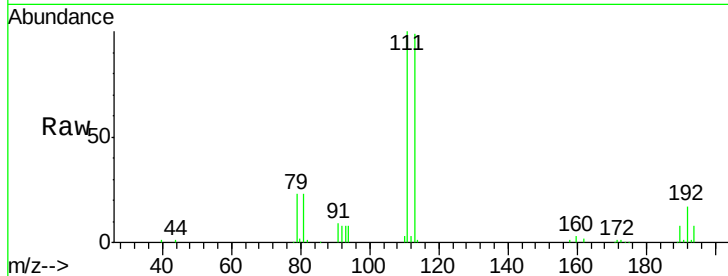




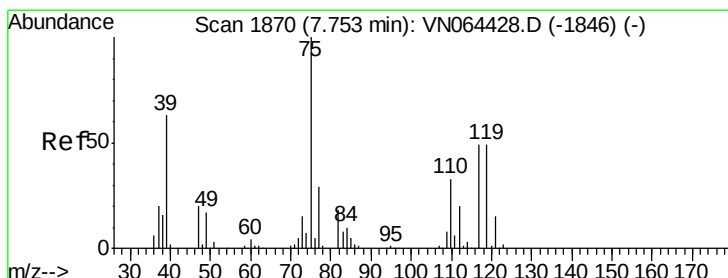
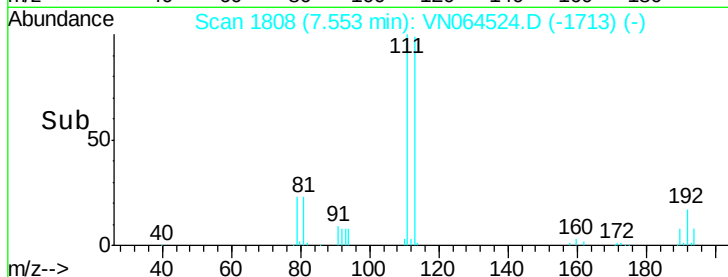
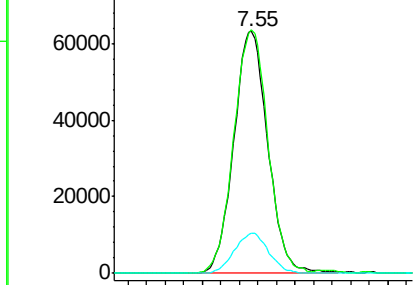
#35
 Dibromofluoromethane
 Concen: 53.206 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN064524.D
 Acq: 10 Nov 2020 14:35

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB178-TB-20201106

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.1	121.7
192	16.7	12.8	19.2

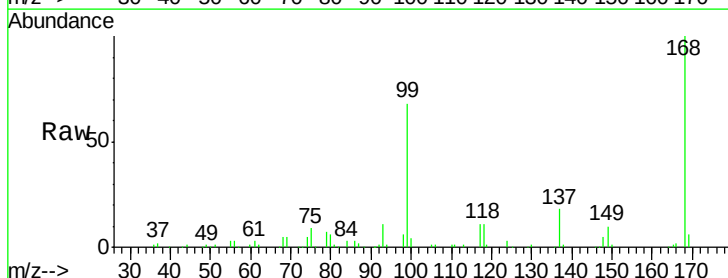


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

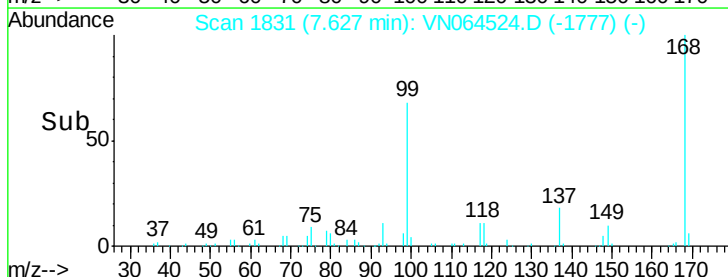
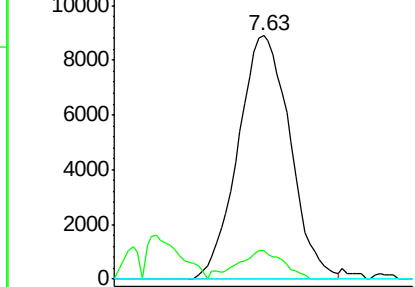


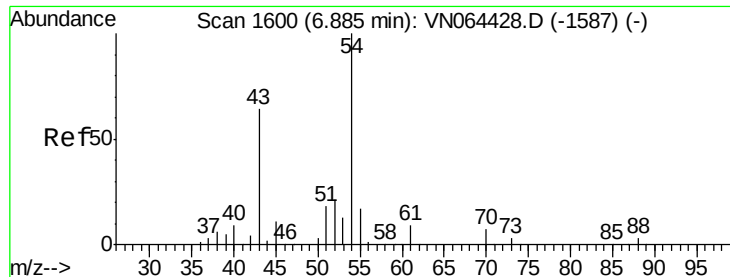
#36
 1,1-Dichloropropene
 Concen: 4.725 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064524.D
 Acq: 10 Nov 2020 14:35

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.4	16.0	48.0#
77	0.0	24.0	36.0#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

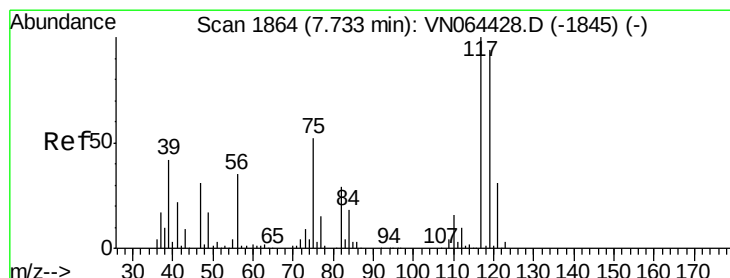
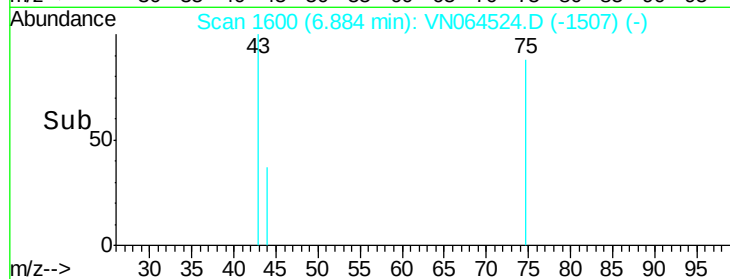
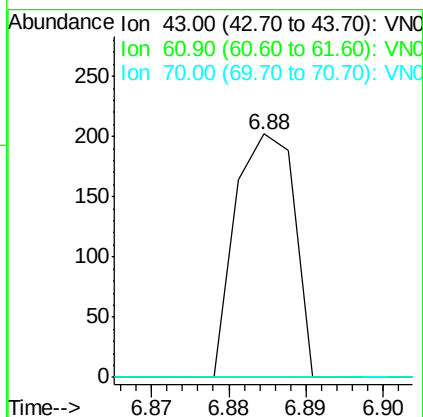
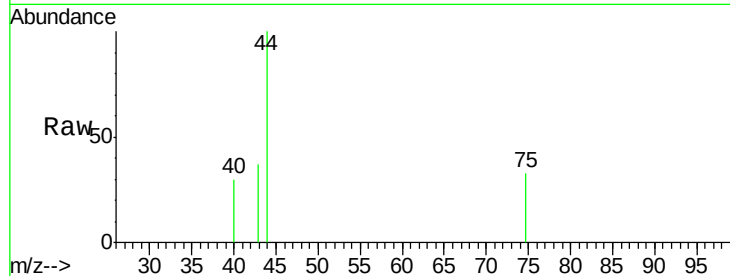




#37
Ethyl Acetate
Concen: 0.785 ug/l
RT: 6.88 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VN064524.D
Acq: 10 Nov 2020 14:35

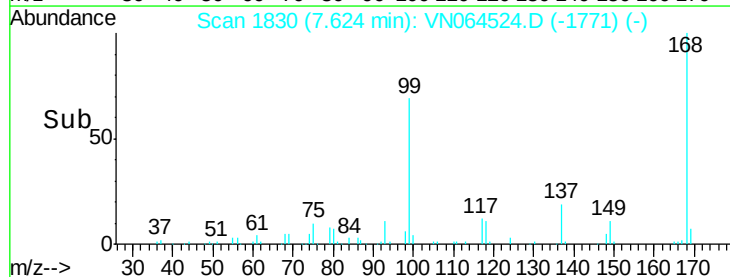
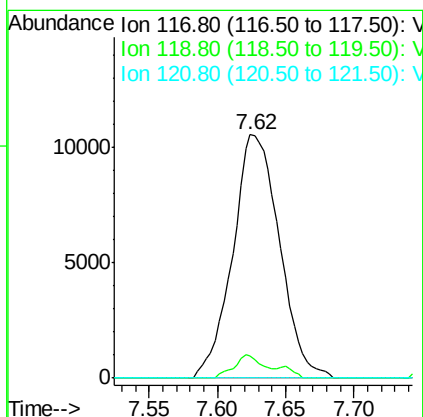
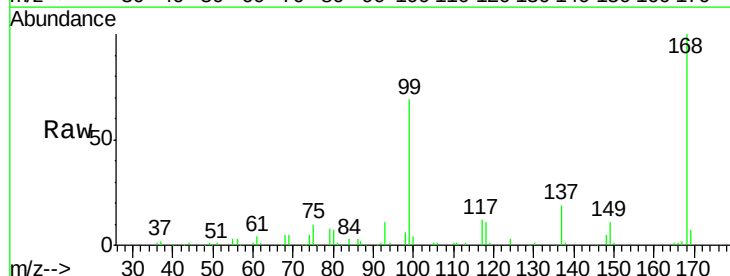
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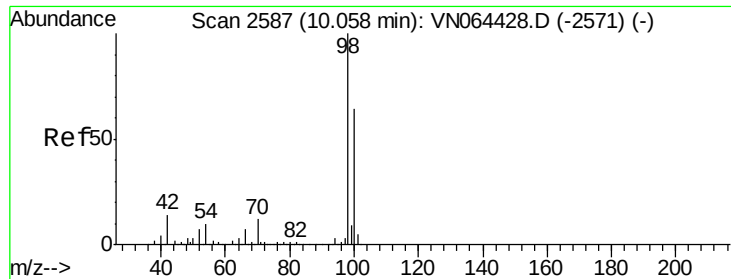
Tot Ion: 43 Resp: 107
Ion Ratio Lower Upper
43 100
61 0.0 10.0 15.0#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 5.011 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.11 min
Lab File: VN064524.D
Acq: 10 Nov 2020 14:35

Tgt Ion: 117 Resp: 25091
Ion Ratio Lower Upper
117 100
119 9.3 75.5 113.3#
121 0.0 24.4 36.6#





#50

Toluene-d8

Concen: 48.911 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064524.D

Acq: 10 Nov 2020 14:35

Instrument :

MSVOA_N

ClientSampleId :

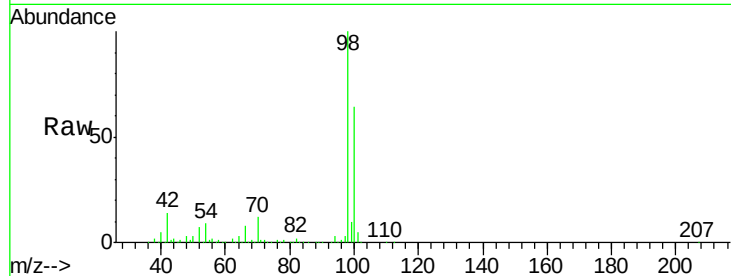
BP-VPB178-TB-20201106

Tot Ion: 98 Resp: 570808

Ion Ratio Lower Upper

98 100

100 63.8 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.06

300000

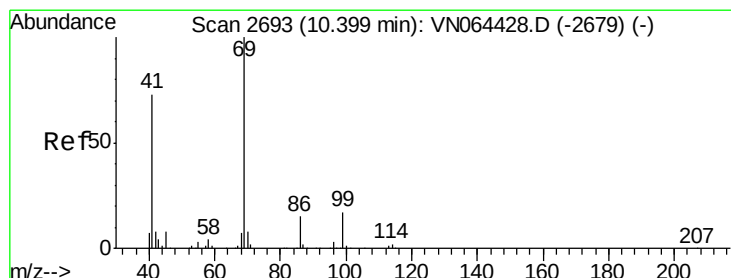
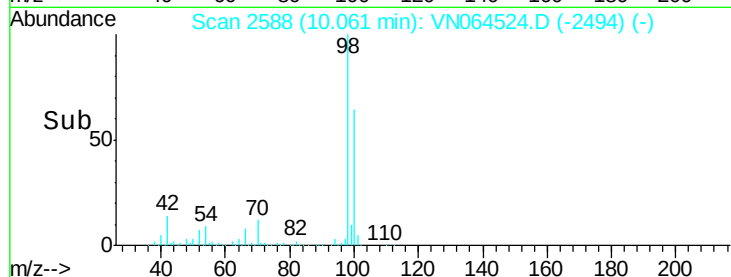
200000

100000

0

Time-->

10.00 10.10



#56

Ethyl methacrylate

Concen: 1.846 ug/l

RT: 10.40 min Scan# 2694

Delta R.T. 0.00 min

Lab File: VN064524.D

Acq: 10 Nov 2020 14:35

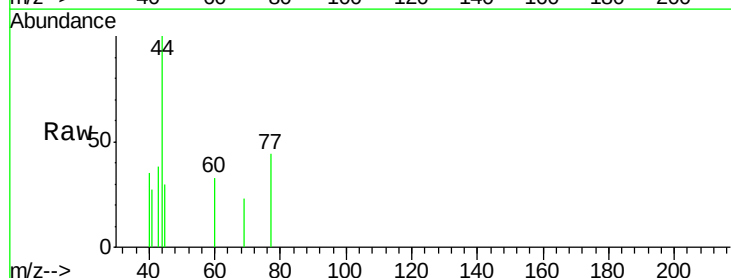
Tgt Ion: 69 Resp: 29

Ion Ratio Lower Upper

69 100

41 0.0 59.3 88.9#

39 103.4 35.4 53.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

300

250

200

150

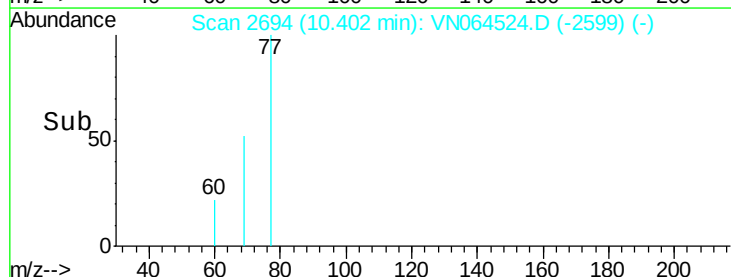
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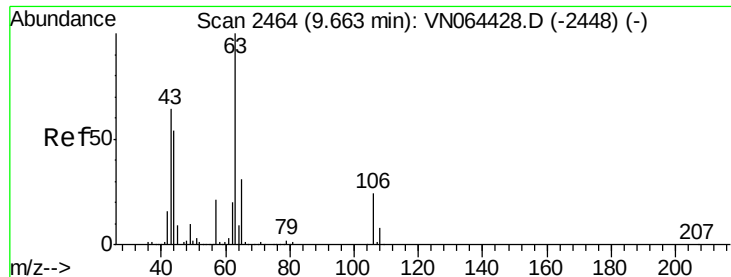
50

0

Time-->

10.39 10.40 10.41





#58

2-Chloroethyl Vinyl ether

Concen: 21.548 ug/l

RT: 9.79 min Scan# 2504

Delta R.T. 0.13 min

Lab File: VN064524.D

Acq: 10 Nov 2020 14:35

Instrument :

MSVOA_N

ClientSampleId :

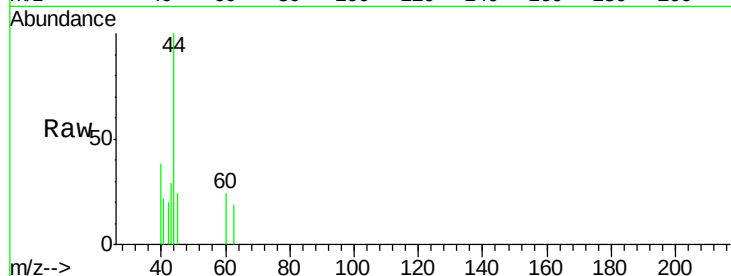
BP-VPB178-TB-20201106

Tot Ion: 63 Resp: 29

Ion Ratio Lower Upper

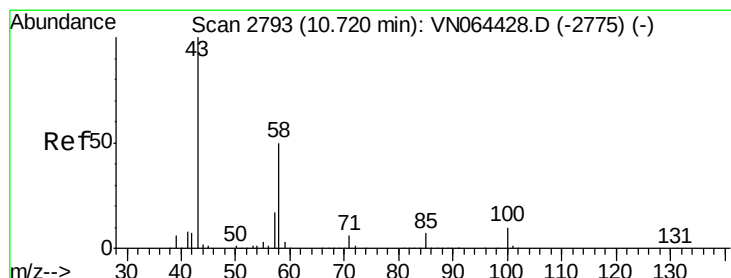
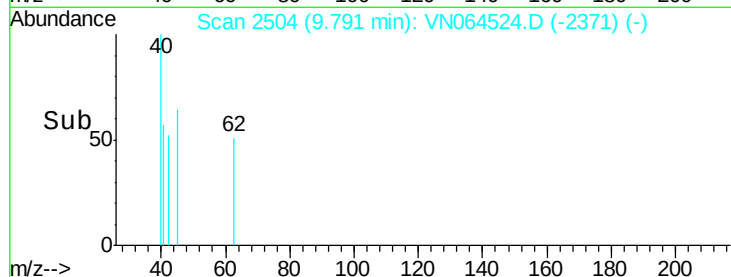
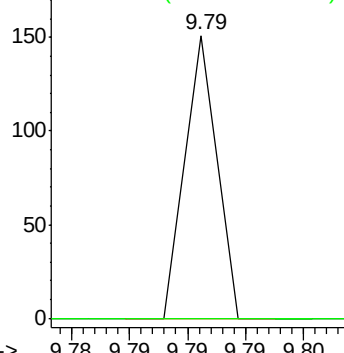
63 100

106 0.0 19.5 29.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V



#59

2-Hexanone

Concen: 4.152 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN064524.D

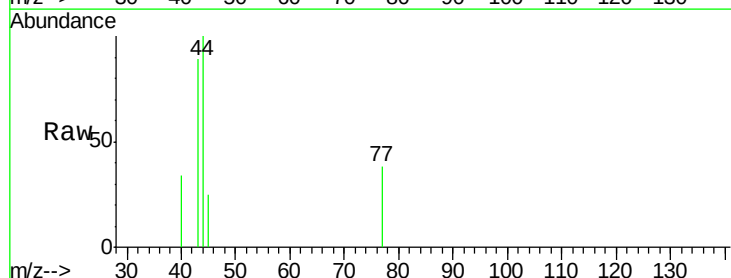
Acq: 10 Nov 2020 14:35

Tgt Ion: 43 Resp: 454

Ion Ratio Lower Upper

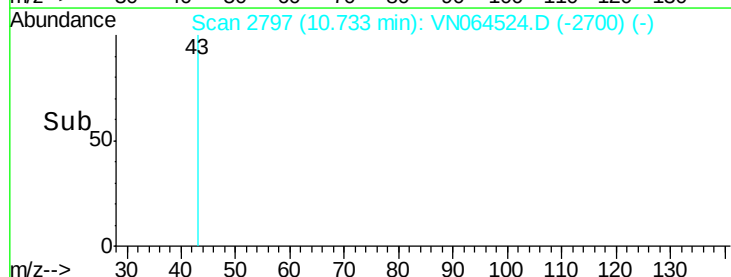
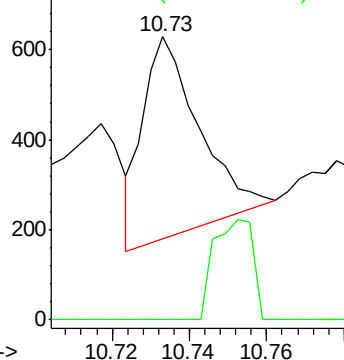
43 100

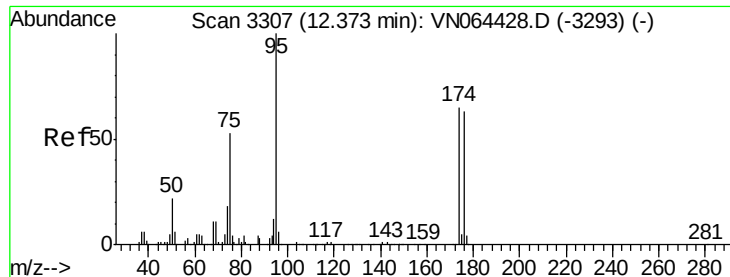
58 34.6 24.7 74.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 47.954 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.01 min

Lab File: VN064524.D

Acq: 10 Nov 2020 14:35

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB178-TB-20201106

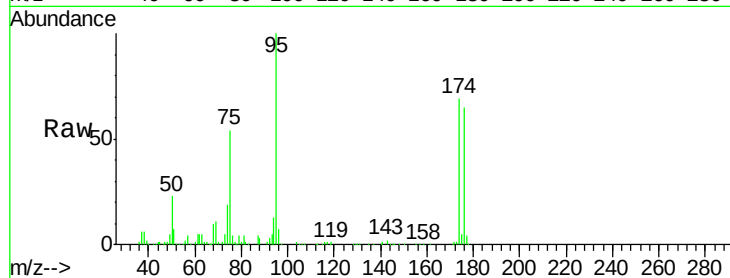
Tot Ion: 95 Resp: 211647

Ion Ratio Lower Upper

95 100

174 70.2 0.0 132.6

176 66.2 0.0 129.2



Abundance Ion 94.90 (94.60 to 95.60): VN064428.D (-3293) (-)

Ion 173.80 (173.50 to 174.50): VN064428.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN064428.D (-3293) (-)

12.38

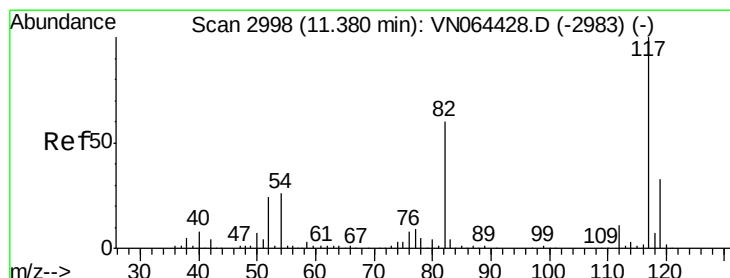
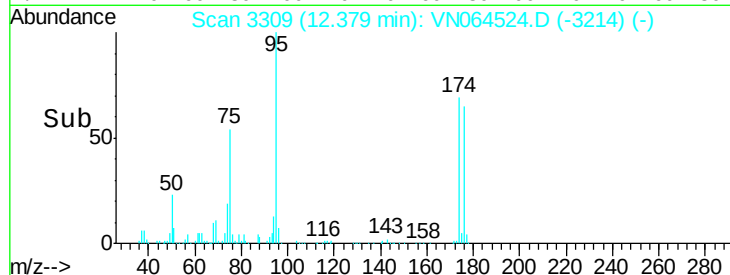
100000

50000

0

12.30 12.35 12.40 12.45

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2999

Delta R.T. 0.00 min

Lab File: VN064524.D

Acq: 10 Nov 2020 14:35

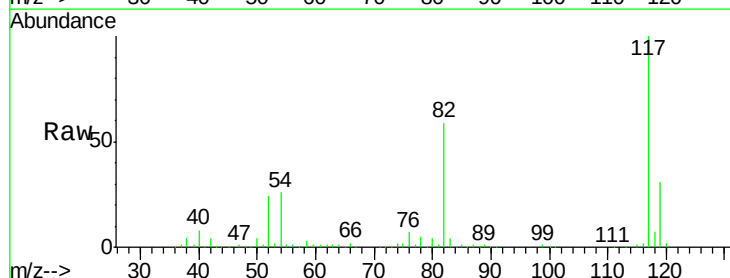
Tgt Ion: 117 Resp: 458843

Ion Ratio Lower Upper

117 100

82 59.2 48.1 72.1

119 31.5 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): VN064428.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN064428.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN064428.D (-2983) (-)

11.38

300000

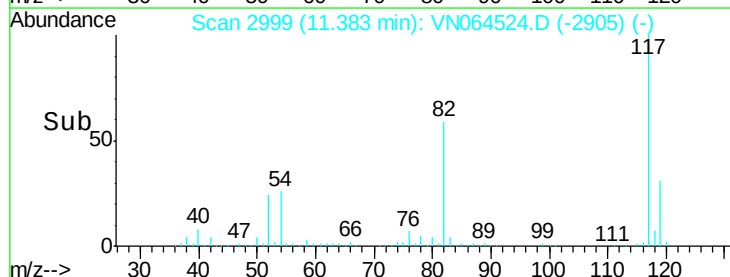
200000

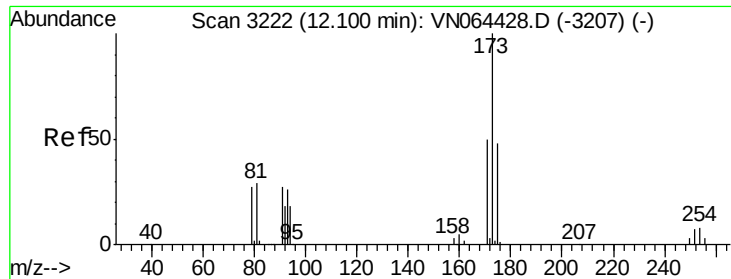
100000

0

11.30 11.40 11.50

Time-->





#71

Bromoform

Concen: 1.408 ug/l

RT: 12.36 min Scan# 3304

Delta R.T. 0.26 min

Lab File: VN064524.D

Acq: 10 Nov 2020 14:35

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB178-TB-20201106

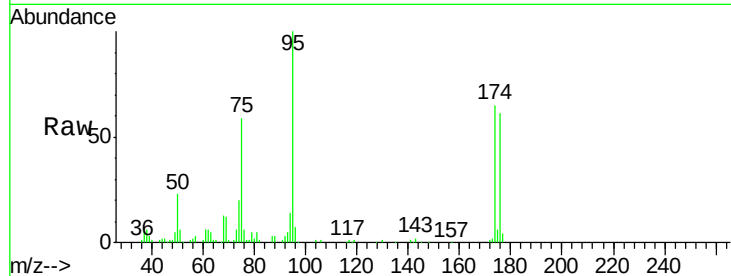
Tot Ion:173 Resp: 385

Ion Ratio Lower Upper

173 100

175 0.0 23.7 71.1#

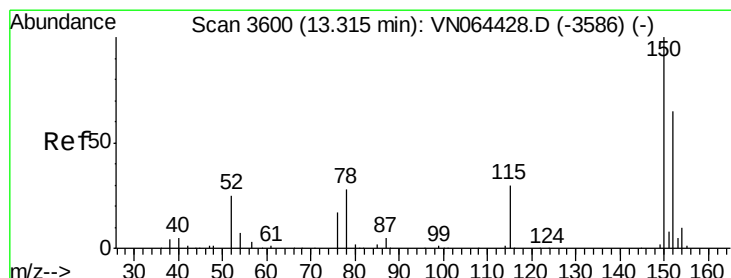
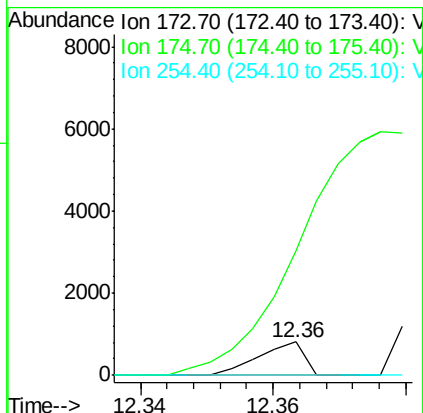
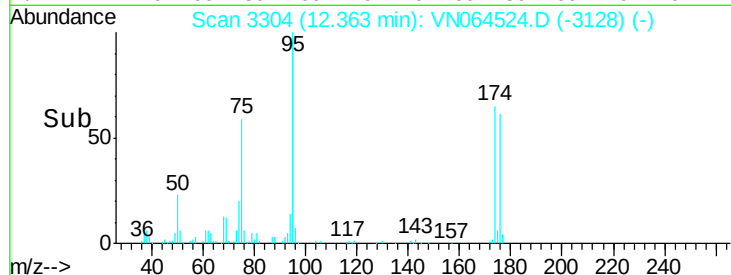
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064524.D

Acq: 10 Nov 2020 14:35

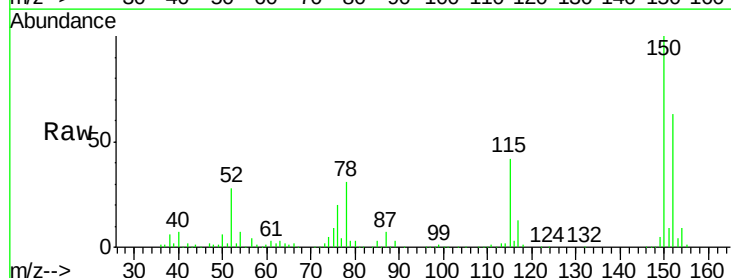
Tgt Ion:152 Resp: 161771

Ion Ratio Lower Upper

152 100

115 65.1 32.0 96.0

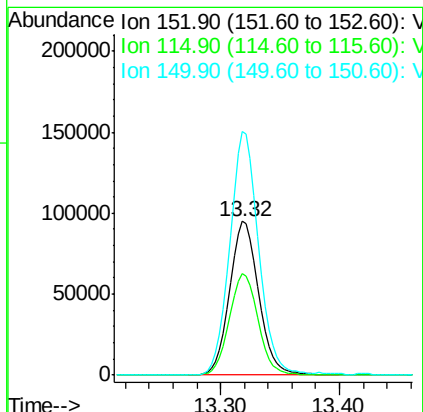
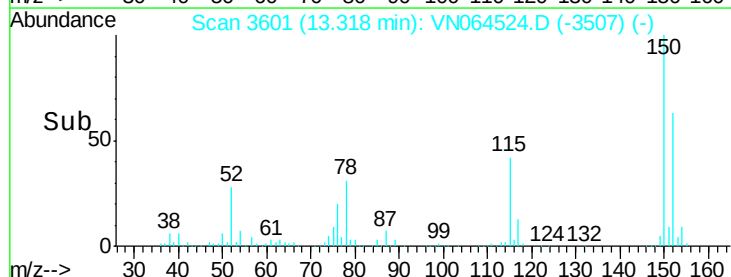
150 155.8 0.0 353.8

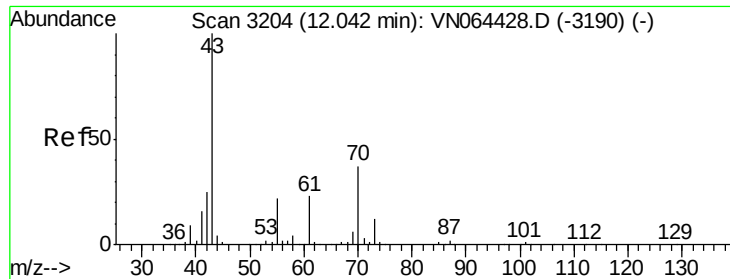


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.225 ug/l

RT: 12.05 min Scan# 3205

Delta R.T. 0.00 min

Lab File: VN064524.D

Acq: 10 Nov 2020 14:35

Instrument :

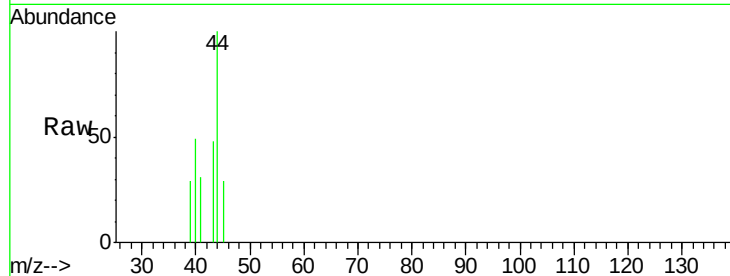
MSVOA_N

ClientSampleId :

BP-VPB178-TB-20201106

Tot Ion: 43 Resp: 70

Ion	Ratio	Lower	Upper
43	100		
70	0.0	29.6	44.4#
55	0.0	18.4	27.6#
61	0.0	17.8	26.6#

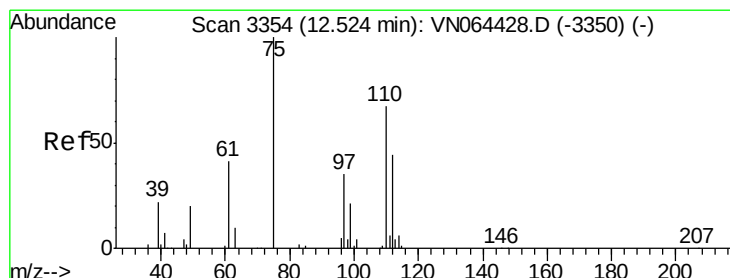
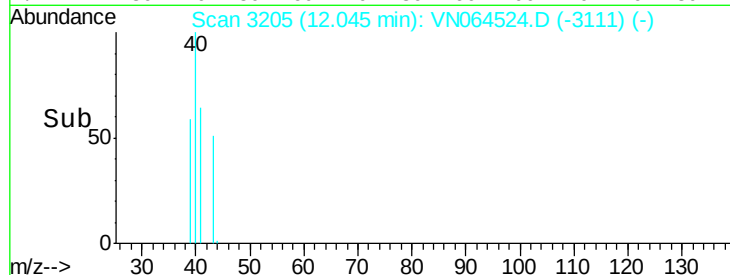
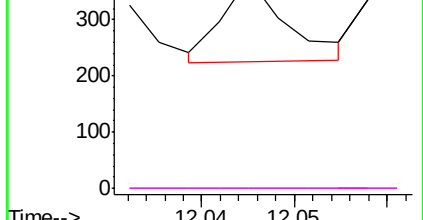


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.076 ug/l

RT: 12.38 min Scan# 3309

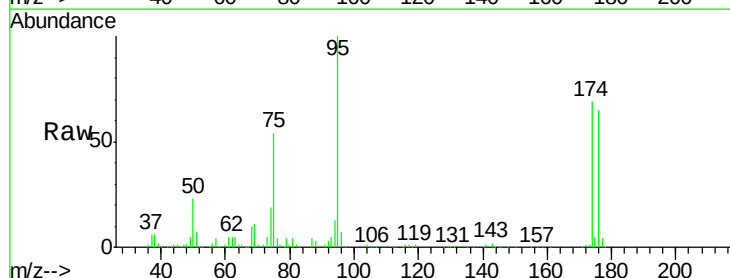
Delta R.T. -0.14 min

Lab File: VN064524.D

Acq: 10 Nov 2020 14:35

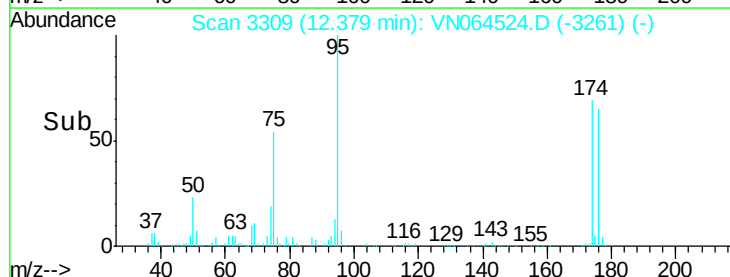
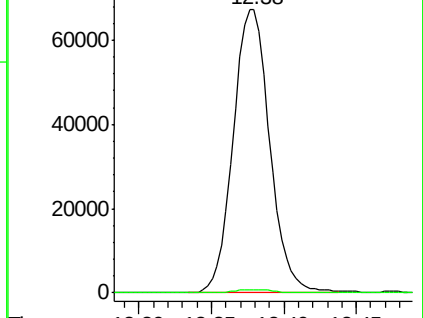
Tgt Ion: 75 Resp: 117884

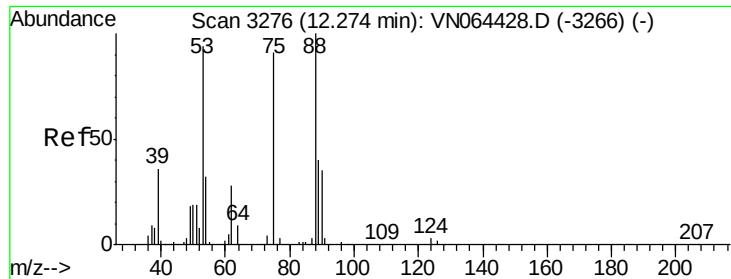
Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 83.975 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.11 min

Lab File: VN064524.D

Acq: 10 Nov 2020 14:35

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB178-TB-20201106

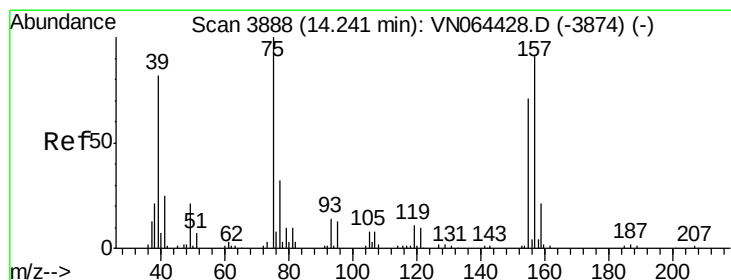
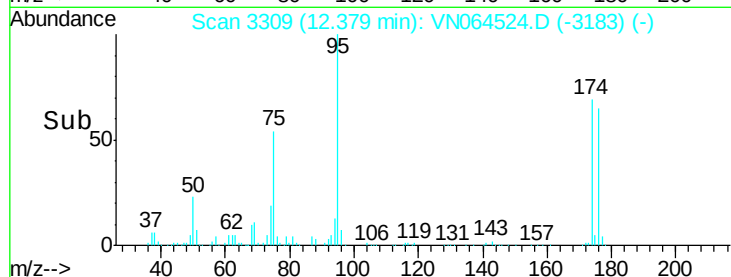
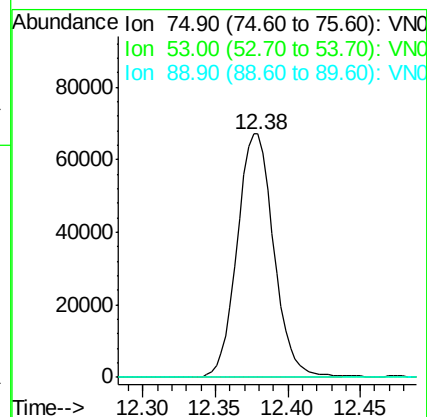
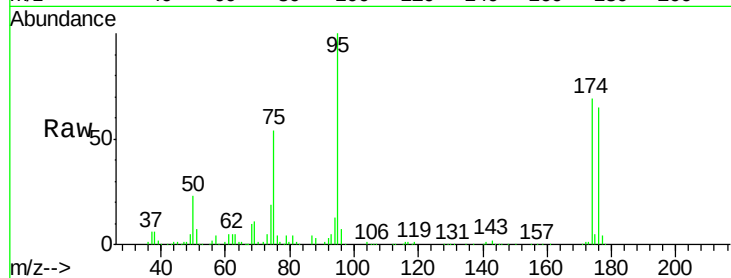
Tot Ion: 75 Resp: 117884

Ion Ratio Lower Upper

75 100

53 0.2 84.0 126.0#

89 0.0 36.3 54.5#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.206 ug/l

RT: 14.25 min Scan# 3892

Delta R.T. 0.01 min

Lab File: VN064524.D

Acq: 10 Nov 2020 14:35

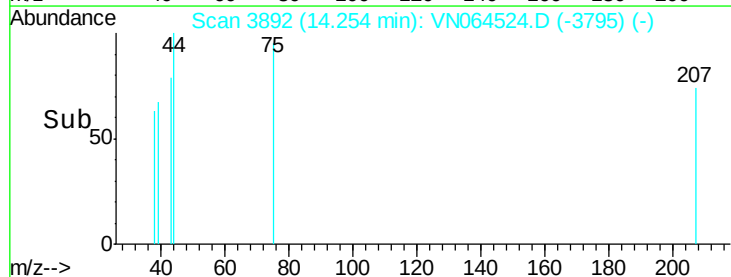
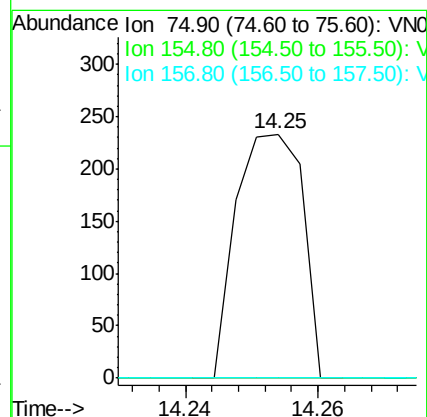
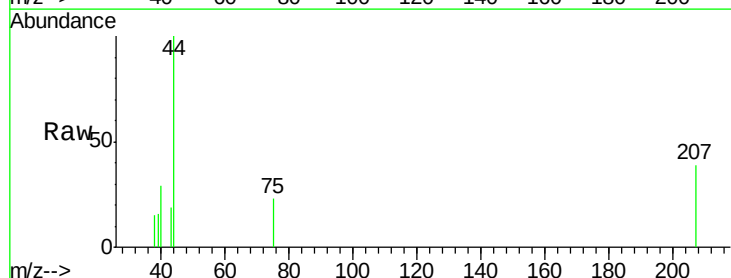
Tgt Ion: 75 Resp: 162

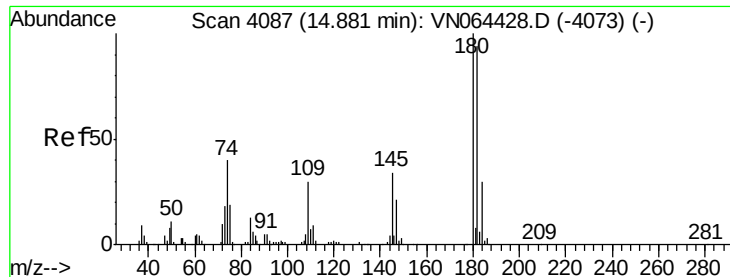
Ion Ratio Lower Upper

75 100

155 0.0 34.6 103.9#

157 0.0 43.0 128.8#

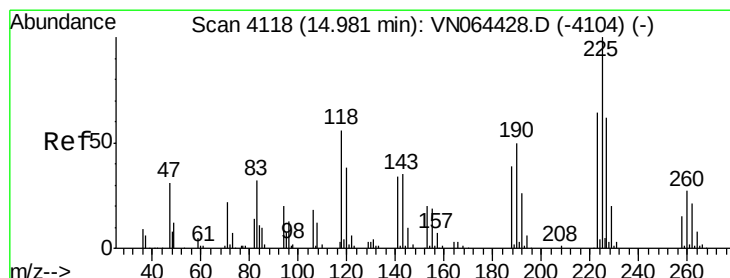
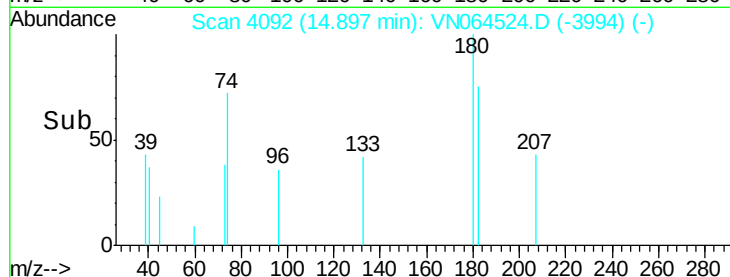
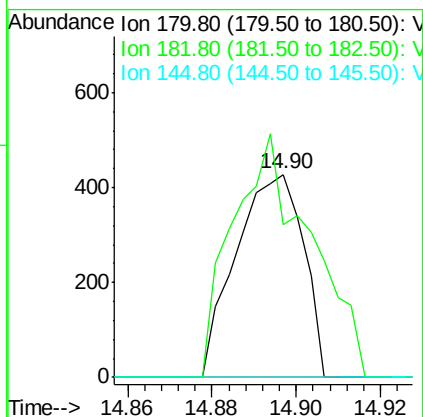
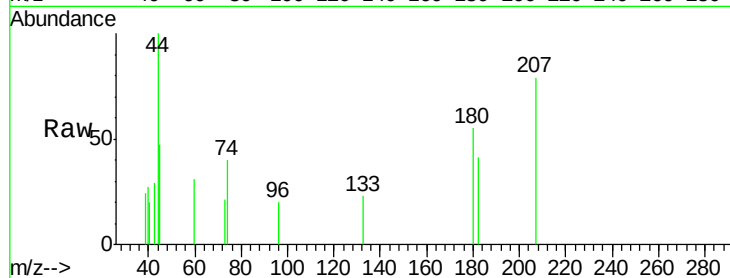




#93
 1,2,4-Trichlorobenzene
 Concen: 2.836 ug/l
 RT: 14.90 min Scan# 4092
 Delta R.T. 0.02 min
 Lab File: VN064524.D
 Acq: 10 Nov 2020 14:35

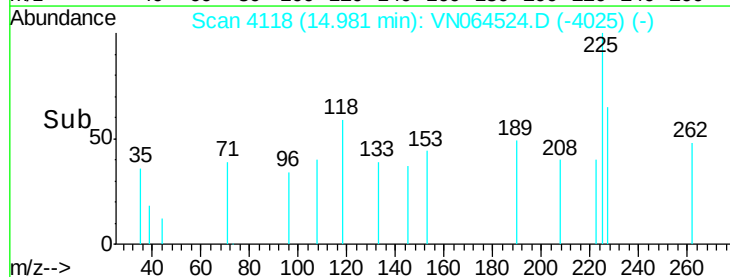
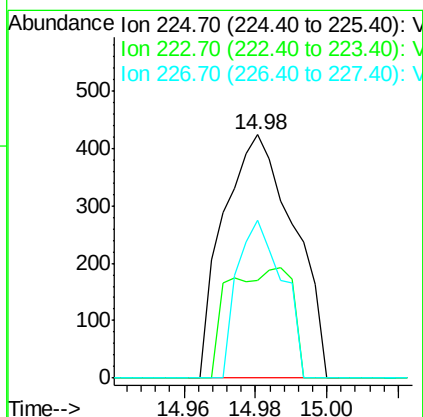
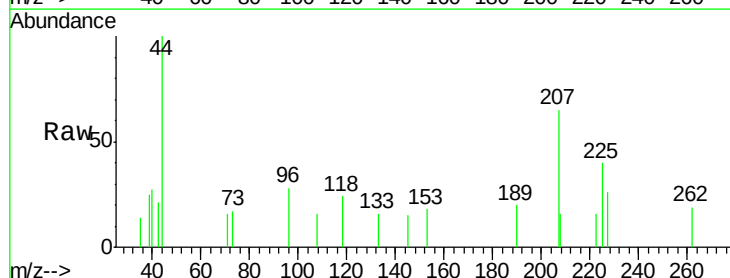
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB178-TB-20201106

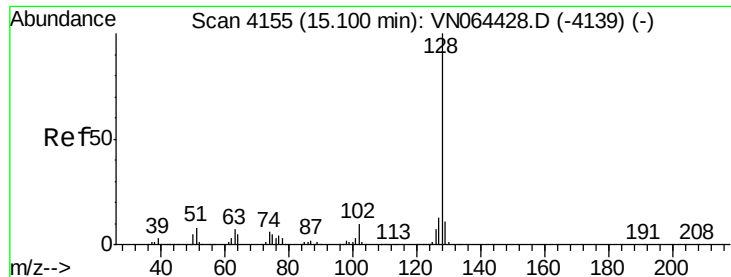
Tot Ion:180 Resp: 473
 Ion Ratio Lower Upper
 180 100
 182 137.8 47.3 142.0
 145 0.0 16.7 50.1#



#94
 Hexachlorobutadiene
 Concen: 0.544 ug/l
 RT: 14.98 min Scan# 4118
 Delta R.T. -0.00 min
 Lab File: VN064524.D
 Acq: 10 Nov 2020 14:35

Tgt Ion:225 Resp: 578
 Ion Ratio Lower Upper
 225 100
 223 41.0 31.8 95.4
 227 41.7 31.8 95.4





#95

Naphthalene

Concen: 3.851 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN064524.D

Acq: 10 Nov 2020 14:35

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB178-TB-20201106

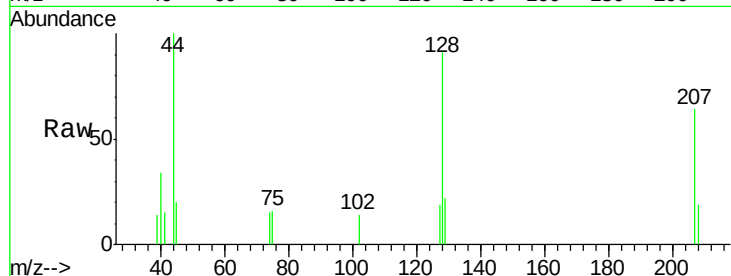
Tot Ion:128 Resp: 2186

Ion Ratio Lower Upper

128 100

127 5.2 10.5 15.7#

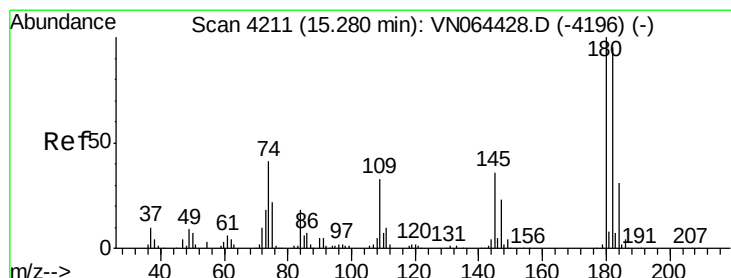
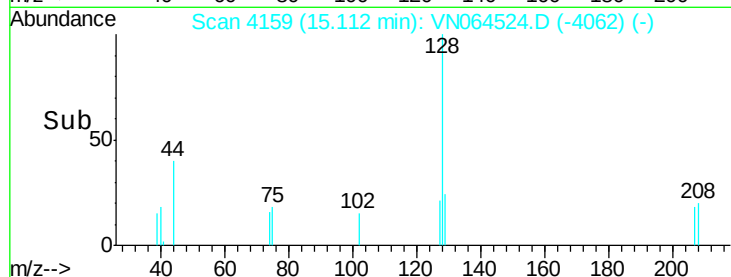
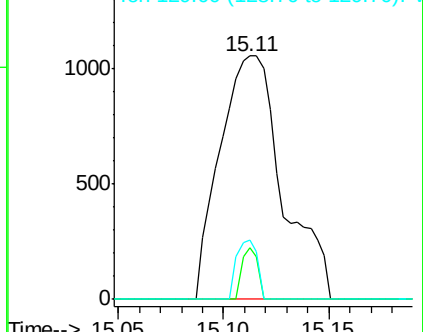
129 7.8 8.8 13.2#



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



#96

1,2,3-Trichlorobenzene

Concen: 2.961 ug/l

RT: 15.28 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN064524.D

Acq: 10 Nov 2020 14:35

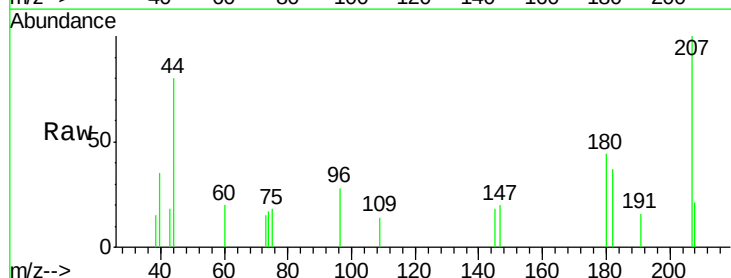
Tgt Ion:180 Resp: 494

Ion Ratio Lower Upper

180 100

182 150.6 47.7 143.1#

145 43.5 18.3 54.8



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

