

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110420\
 Data File : VN064442.D
 Acq On : 4 Nov 2020 17:37
 Operator : JC/MD
 Sample : L4627-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB178-GW-153-155

Quant Time: Nov 05 00:48:31 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

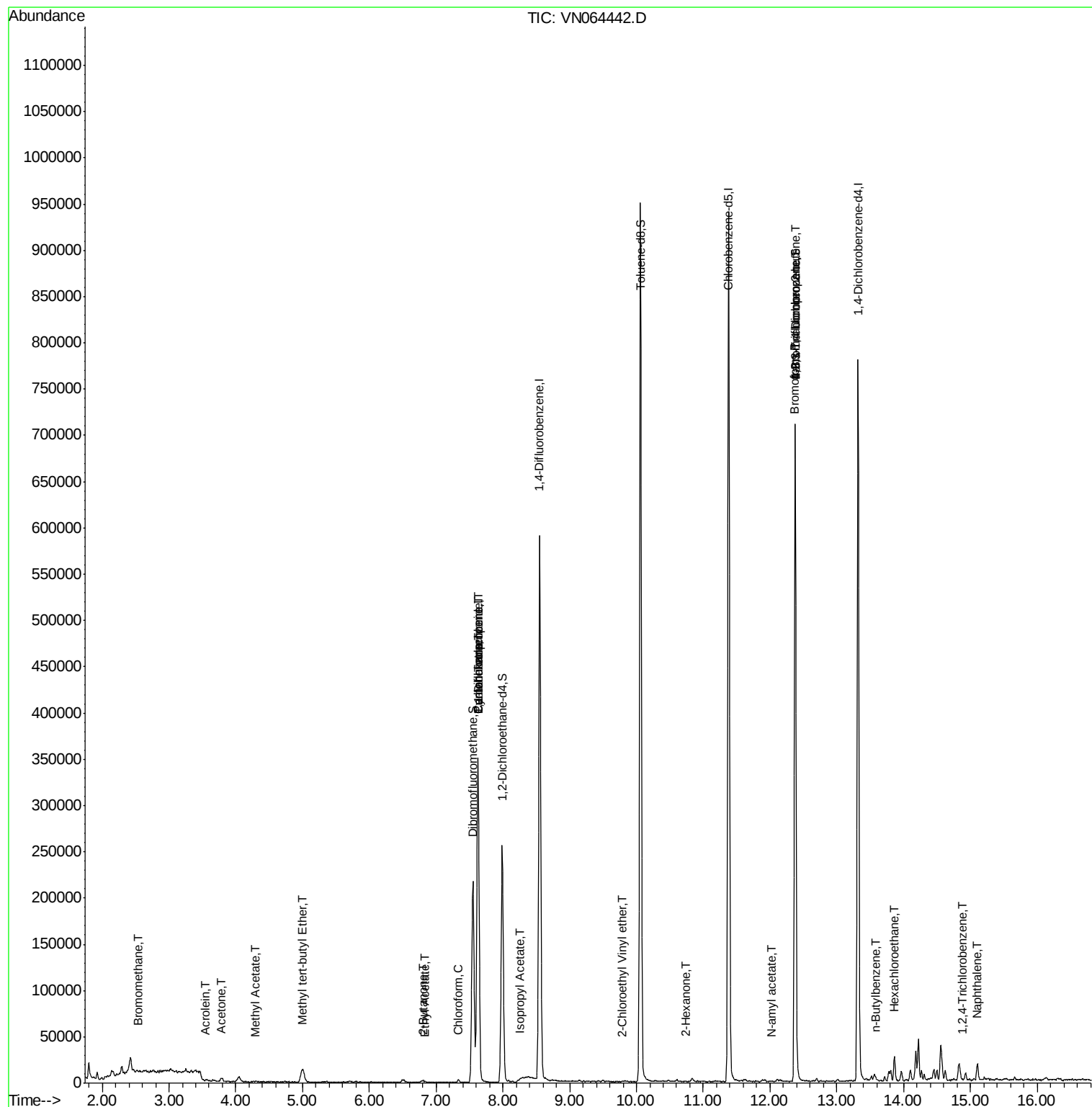
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	244491	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	488275	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	498019	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	194454	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	227605	53.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.90%	
35) Dibromofluoromethane	7.55	113	162790	48.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.94%	
50) Toluene-d8	10.06	98	621842	48.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.80%	
62) 4-Bromofluorobenzene	12.38	95	245521	50.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.06%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.55	94	564	0.222	ug/l	98
13) Acrolein	3.55	56	208	0.714	ug/l #	33
16) Acetone	3.78	43	6529	4.025	ug/l #	77
18) Methyl Acetate	4.29	43	1051	0.330	ug/l #	55
19) Methyl tert-butyl Ether	5.00	73	22642	2.406	ug/l	97
25) 2-Butanone	6.81	43	1168	0.565	ug/l #	52
30) Chloroform	7.33	83	2323	0.370	ug/l	97
31) Cyclohexane	7.63	56	7468	1.443	ug/l #	24
36) 1,1-Dichloropropene	7.62	75	24279	4.707	ug/l #	53
37) Ethyl Acetate	6.84	43	42	0.770	ug/l #	71
38) Carbon Tetrachloride	7.63	117	28328	5.138	ug/l #	17
43) Isopropyl Acetate	8.26	43	2990	0.358	ug/l #	64
58) 2-Chloroethyl Vinyl ether	9.77	63	29	21.547	ug/l #	51
59) 2-Hexanone	10.75	43	488	4.149	ug/l #	28
71) Bromoform	12.36	173	271	1.361	ug/l #	1
74) N-amyl acetate	12.03	43	87	1.226	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	140064	29.728	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	140064	83.005	ug/l #	8
89) n-Butylbenzene	13.59	91	2015	0.207	ug/l	82
90) Hexachloroethane	13.86	117	1729	0.790	ug/l #	18
93) 1,2,4-Trichlorobenzene	14.89	180	132	2.704	ug/l #	73
95) Naphthalene	15.11	128	15547	4.975	ug/l #	90

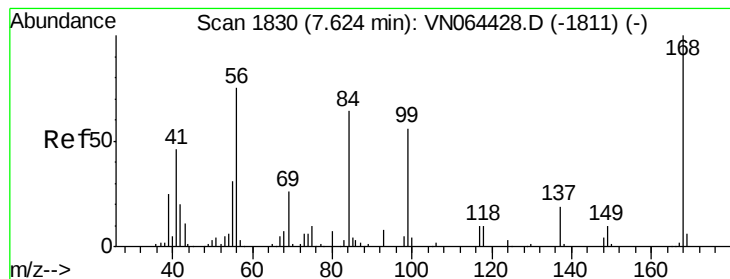
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064442.D

Acq: 4 Nov 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

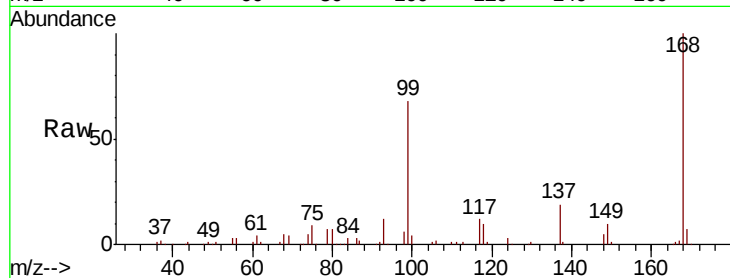
BP-VPB178-GW-153-155

Tot Ion:168 Resp: 244491

Ion Ratio Lower Upper

168 100

99 67.9 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): VN064442.D (-1737) (-)

Ion 98.90 (98.60 to 99.60): VN064442.D (-1737) (-)

7.63

120000

100000

80000

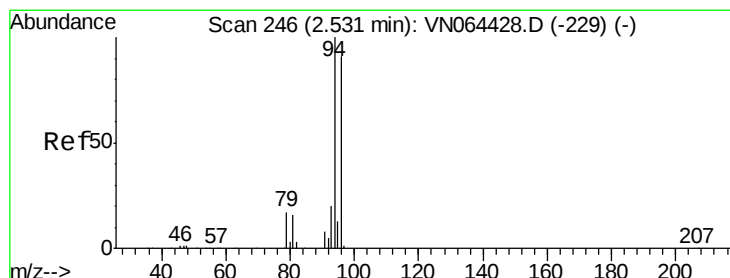
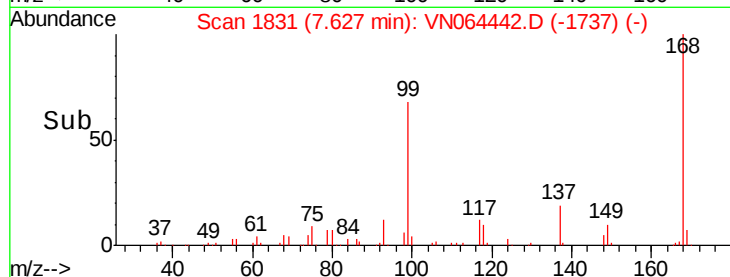
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.222 ug/l

RT: 2.55 min Scan# 251

Delta R.T. 0.02 min

Lab File: VN064442.D

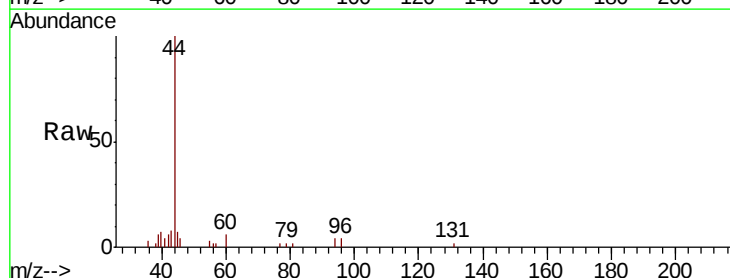
Acq: 4 Nov 2020 17:37

Tgt Ion: 94 Resp: 564

Ion Ratio Lower Upper

94 100

96 93.1 73.1 109.7



Abundance Ion 93.90 (93.60 to 94.60): VN064442.D (-153) (-)

Ion 95.90 (95.60 to 96.60): VN064442.D (-153) (-)

2.55

400

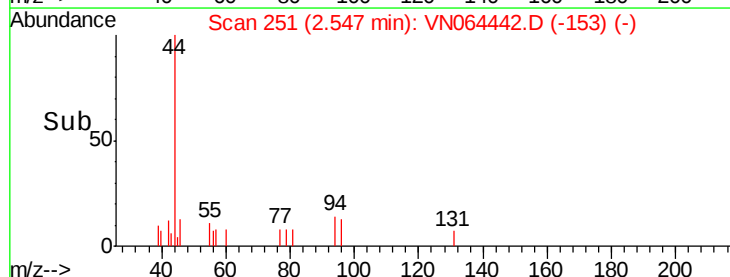
300

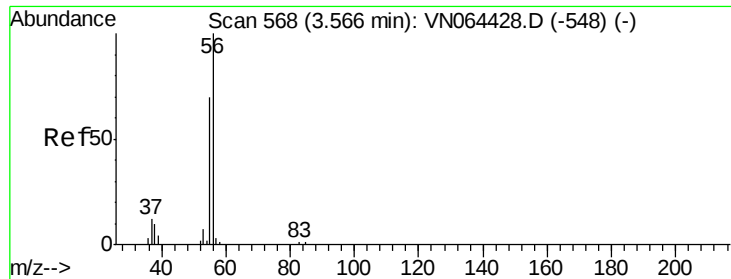
200

100

0

Time-->





#13

Acrolein

Concen: 0.714 ug/l

RT: 3.55 min Scan# 564

Delta R.T. -0.01 min

Lab File: VN064442.D

Acq: 4 Nov 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

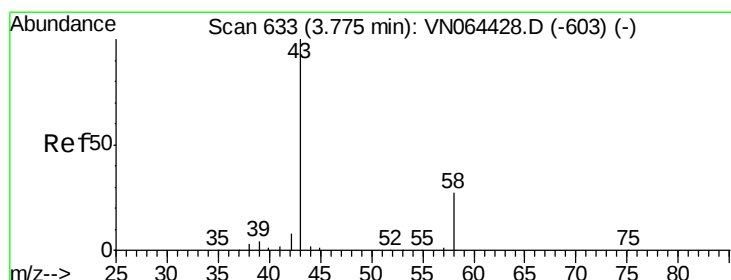
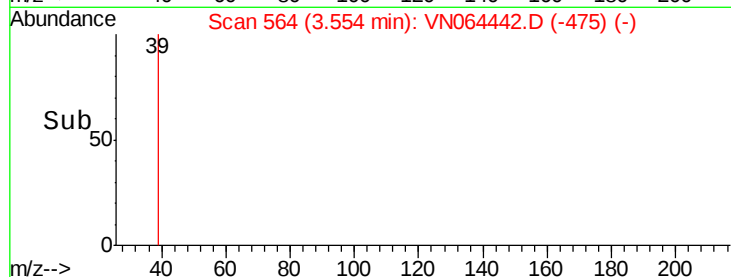
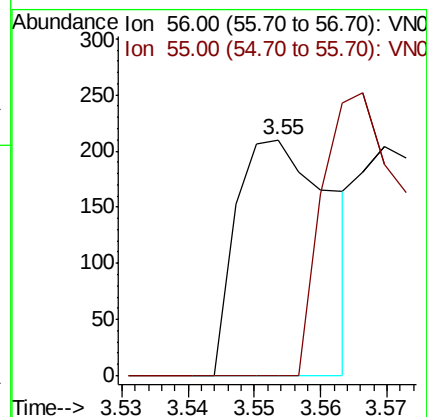
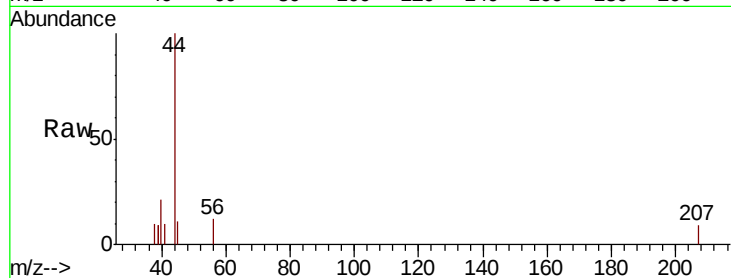
BP-VPB178-GW-153-155

Tot Ion: 56 Resp: 208

Ion Ratio Lower Upper

56 100

55 124.5 55.9 83.9#



#16

Acetone

Concen: 4.025 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064442.D

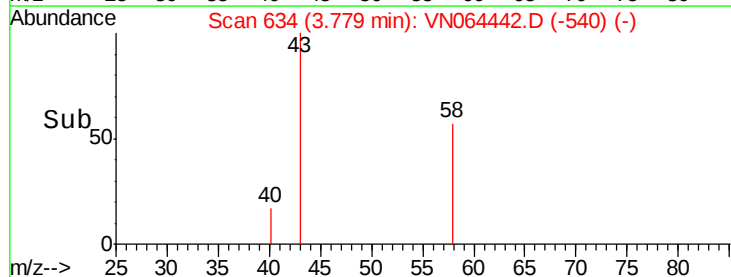
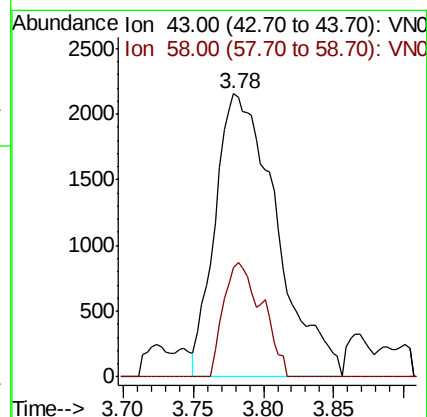
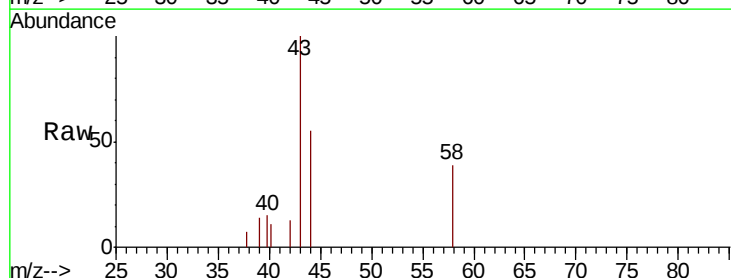
Acq: 4 Nov 2020 17:37

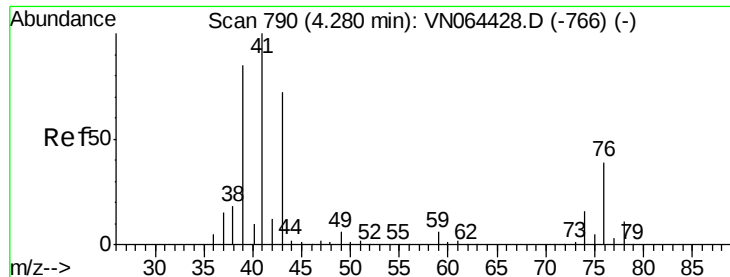
Tgt Ion: 43 Resp: 6529

Ion Ratio Lower Upper

43 100

58 38.7 21.4 32.0#

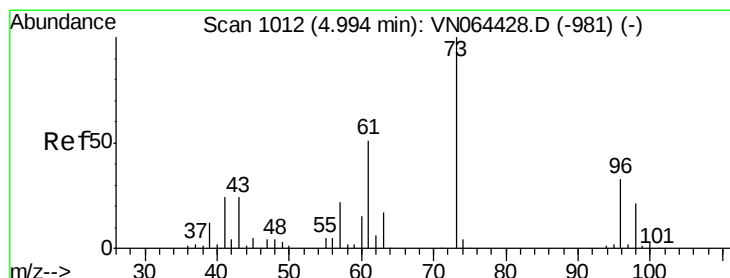
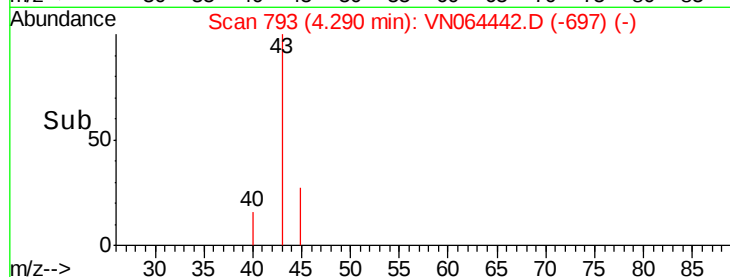
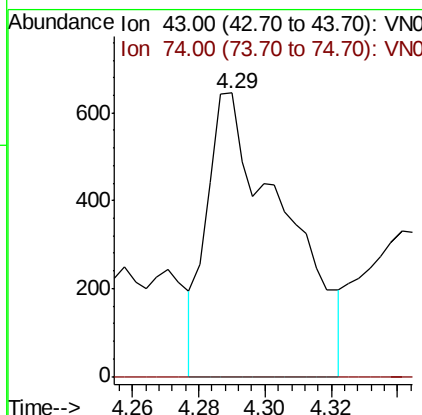
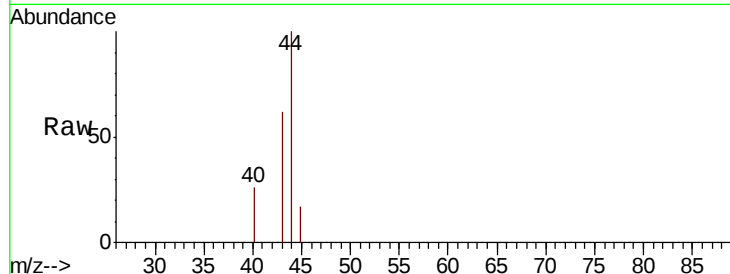




#18
Methyl Acetate
Concen: 0.330 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN064442.D
Acq: 4 Nov 2020 17:37

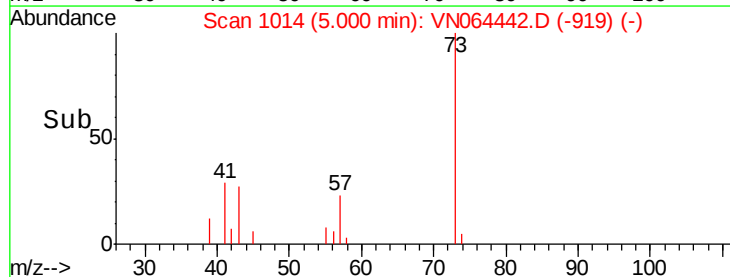
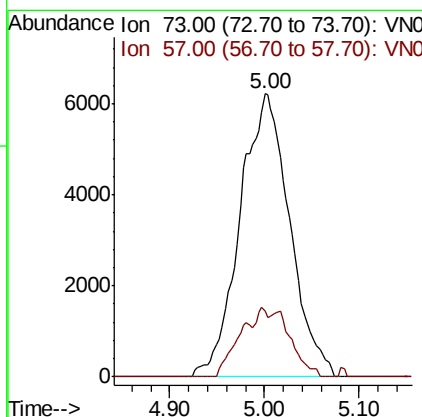
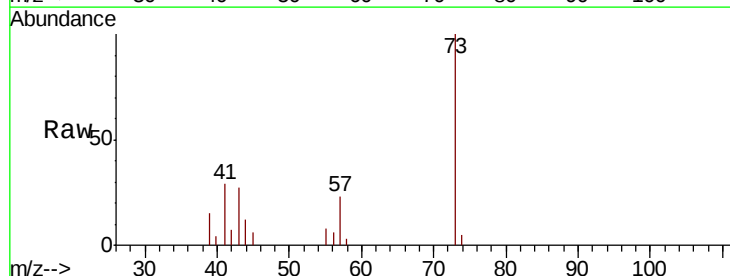
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB178-GW-153-155

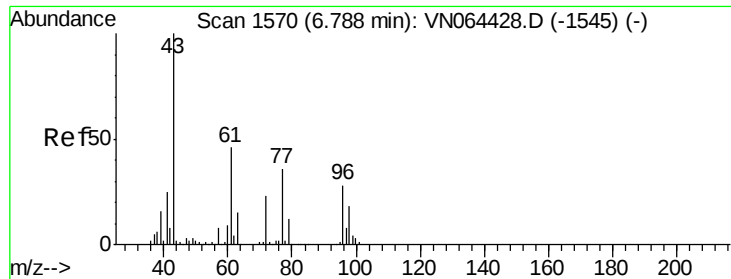
Tot Ion: 43 Resp: 1051
Ion Ratio Lower Upper
43 100
74 0.0 17.0 25.4#



#19
Methyl tert-butyl Ether
Concen: 2.406 ug/l
RT: 5.00 min Scan# 1014
Delta R.T. 0.01 min
Lab File: VN064442.D
Acq: 4 Nov 2020 17:37

Tgt Ion: 73 Resp: 22642
Ion Ratio Lower Upper
73 100
57 23.4 17.7 26.5





#25

2-Butanone

Concen: 0.565 ug/l

RT: 6.81 min Scan# 1576

Delta R.T. 0.02 min

Lab File: VN064442.D

Acq: 4 Nov 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

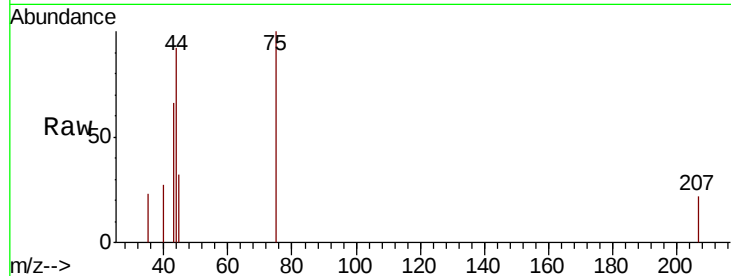
BP-VPB178-GW-153-155

Tot Ion: 43 Resp: 1168

Ion Ratio Lower Upper

43 100

72 0.0 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VN064442.D (-1545) (-)

Ion 72.00 (71.70 to 72.70): VN064442.D (-1545) (-)

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6.81

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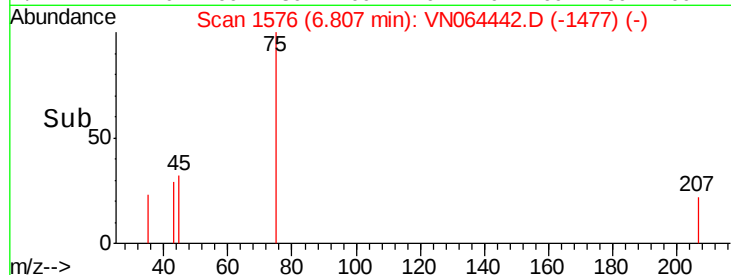
6.81

6.81

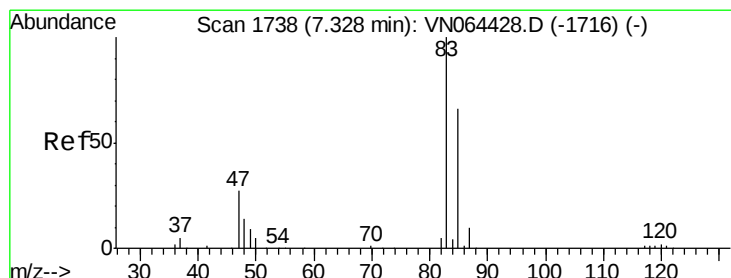
6.81

6.81

6.81



Time-->



#30

Chloroform

Concen: 0.370 ug/l

RT: 7.33 min Scan# 1738

Delta R.T. -0.00 min

Lab File: VN064442.D

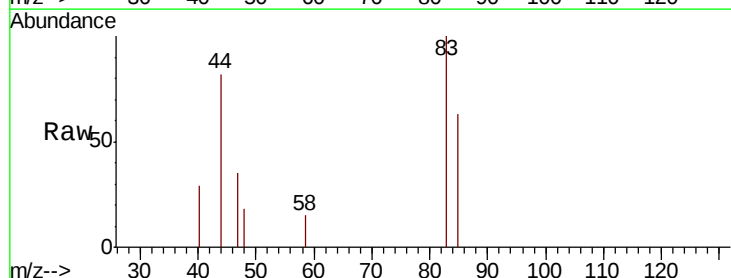
Acq: 4 Nov 2020 17:37

Tgt Ion: 83 Resp: 2323

Ion Ratio Lower Upper

83 100

85 62.8 52.5 78.7



Abundance Ion 82.90 (82.60 to 83.60): VN064442.D (-1716) (-)

Ion 84.90 (84.60 to 85.60): VN064442.D (-1716) (-)

7.33

7.33

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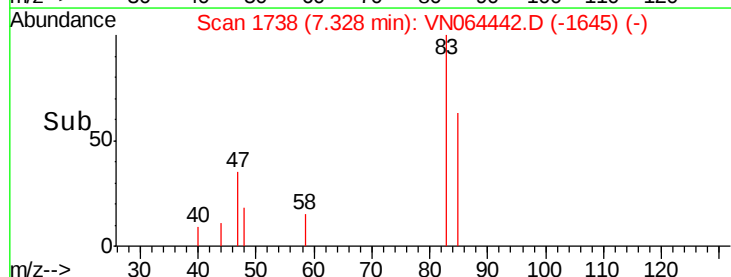
7.33

7.33

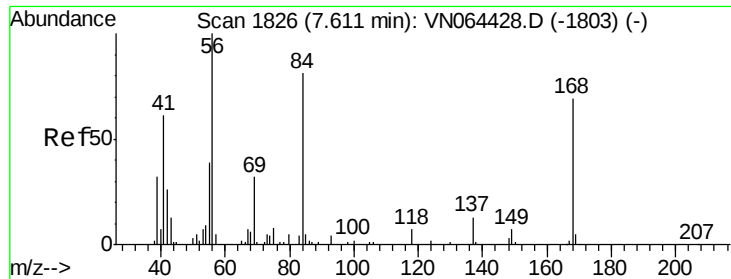
7.33

7.33

7.33



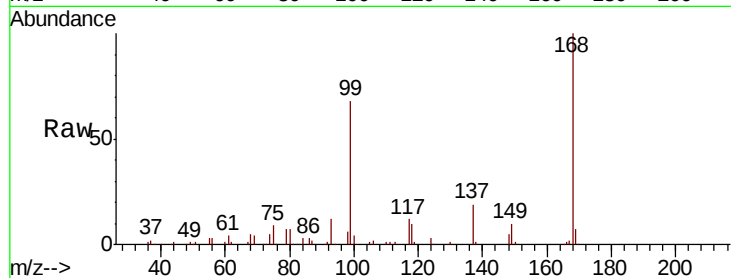
Time-->



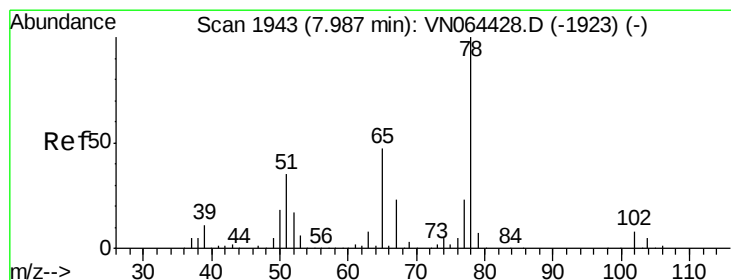
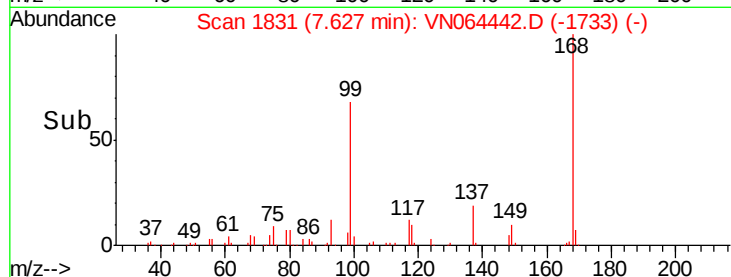
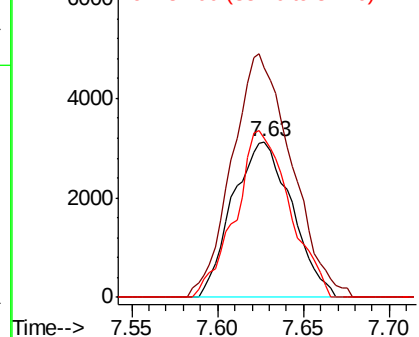
#31
Cyclohexane
Concen: 1.443 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.02 min
Lab File: VN064442.D
Acq: 4 Nov 2020 17:37

Instrument :
MSVOA_N
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BP-VPB178-GW-153-155

Tot Ion: 56 Resp: 7468
Ion Ratio Lower Upper
56 100
69 141.4 25.6 38.4#
84 102.3 63.0 94.6#

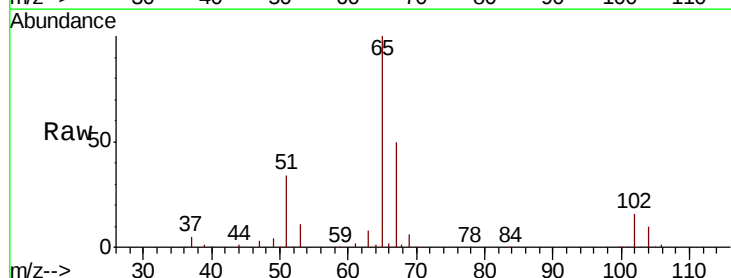


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

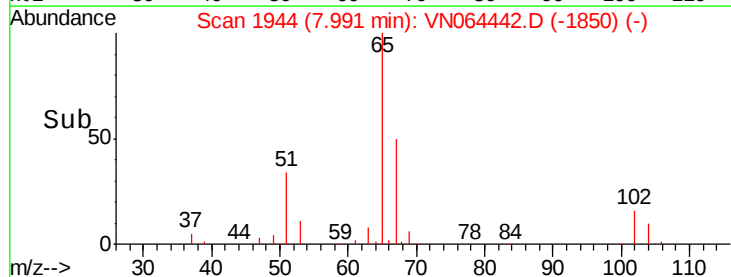
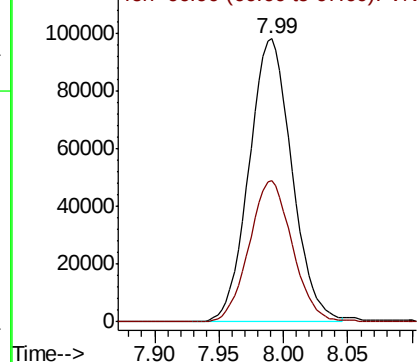


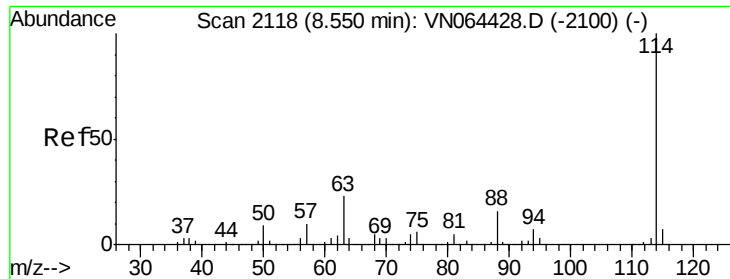
#33
1,2-Dichloroethane-d4
Concen: 53.445 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN064442.D
Acq: 4 Nov 2020 17:37

Tgt Ion: 65 Resp: 227605
Ion Ratio Lower Upper
65 100
67 50.2 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN064442.D

Acq: 4 Nov 2020 17:37

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ClientSampleId :

BP-VPB178-GW-153-155

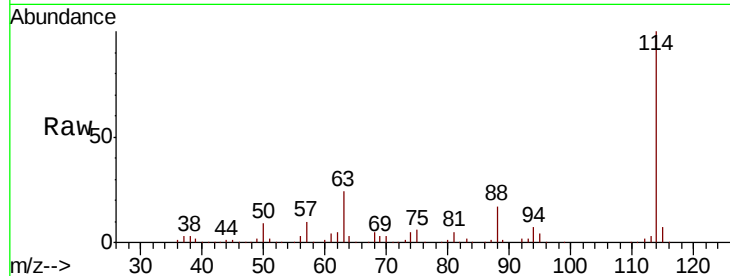
Tot Ion:114 Resp: 488275

Ion Ratio Lower Upper

114 100

63 23.9 0.0 45.6

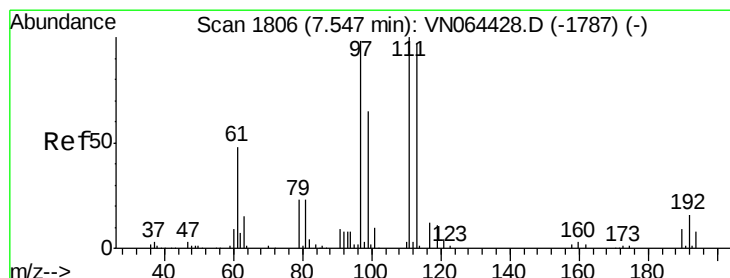
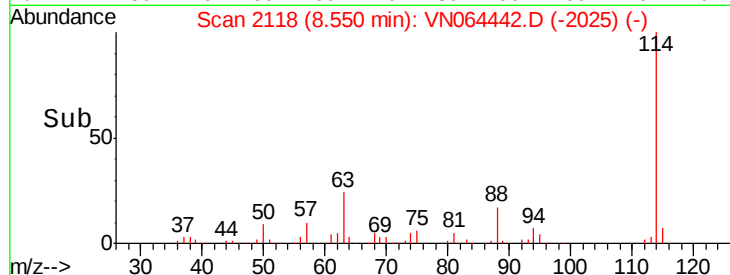
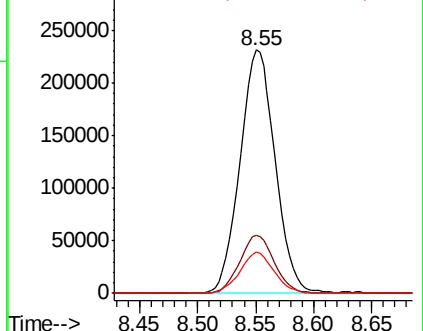
88 16.8 0.0 32.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 48.967 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064442.D

Acq: 4 Nov 2020 17:37

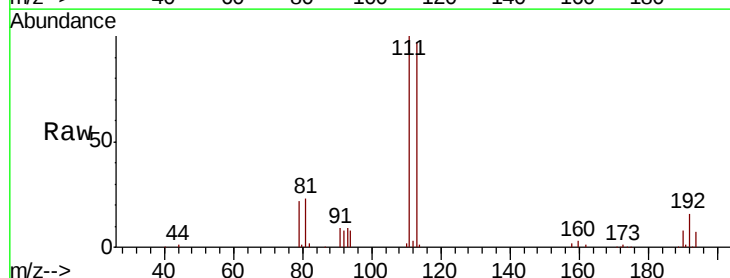
Tgt Ion:113 Resp: 162790

Ion Ratio Lower Upper

113 100

111 104.2 81.1 121.7

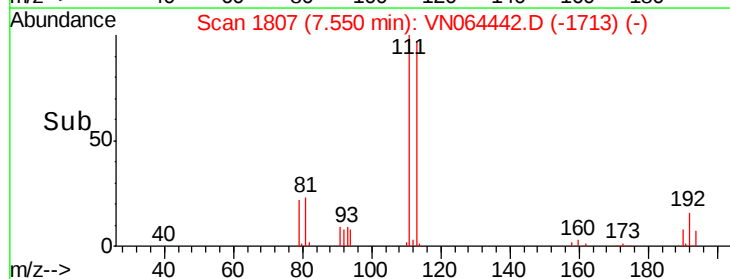
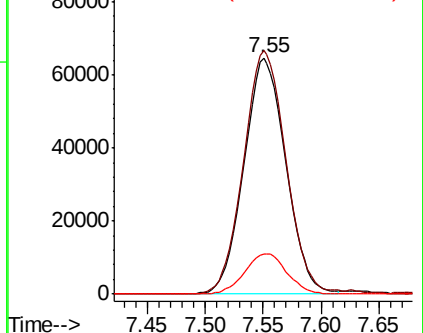
192 17.0 12.8 19.2

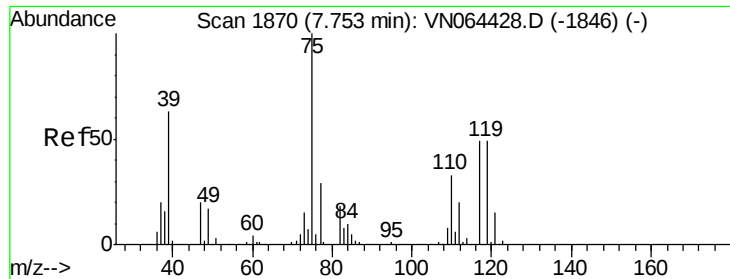


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

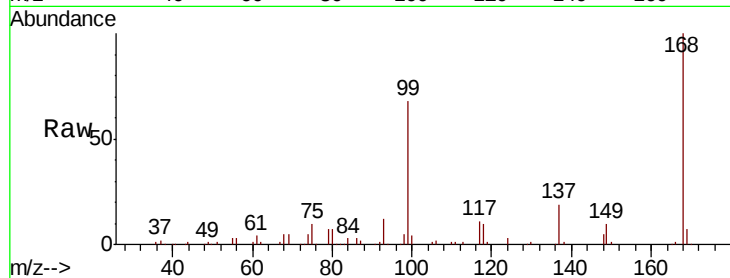




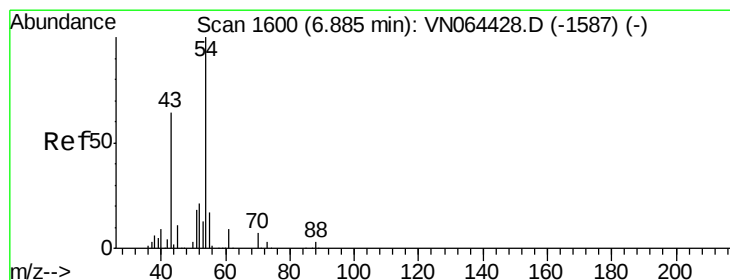
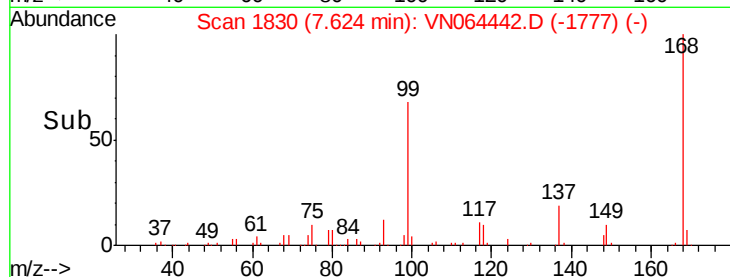
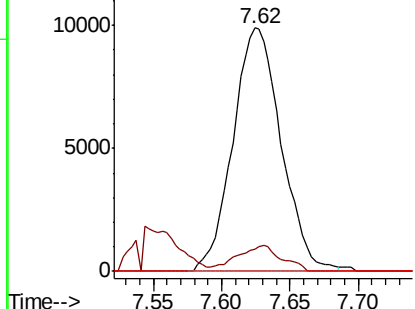
#36
 1,1-Dichloropropene
 Concen: 4.707 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064442.D
 Acq: 4 Nov 2020 17:37

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB178-GW-153-155

Tot Ion: 75 Resp: 24279
 Ion Ratio Lower Upper
 75 100
 110 9.8 16.0 48.0#
 77 0.0 24.0 36.0#

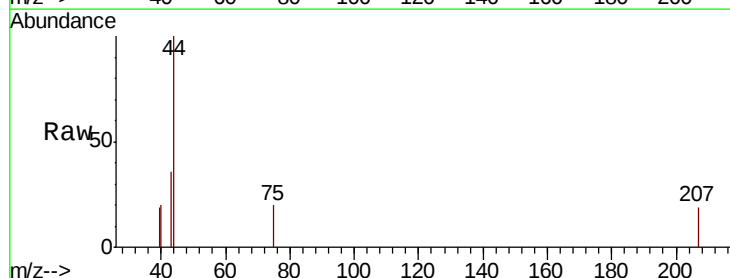


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

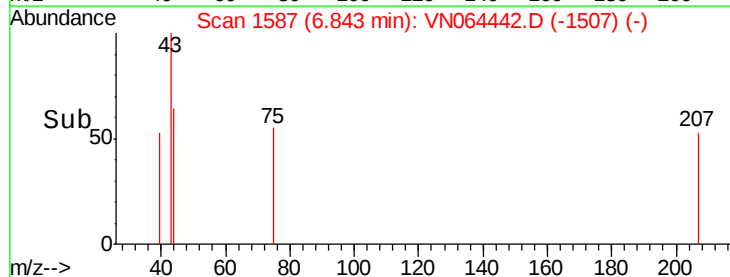
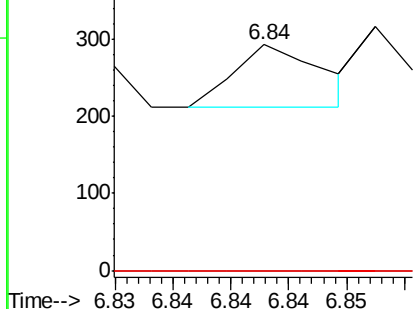


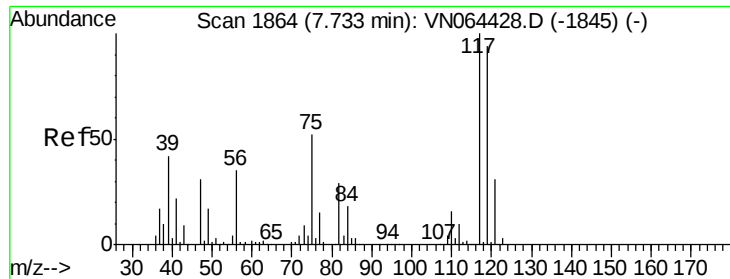
#37
 Ethyl Acetate
 Concen: 0.770 ug/l
 RT: 6.84 min Scan# 1587
 Delta R.T. -0.04 min
 Lab File: VN064442.D
 Acq: 4 Nov 2020 17:37

Tgt Ion: 43 Resp: 42
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.0 15.0#
 70 0.0 7.1 10.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 5.138 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064442.D

Acq: 4 Nov 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB178-GW-153-155

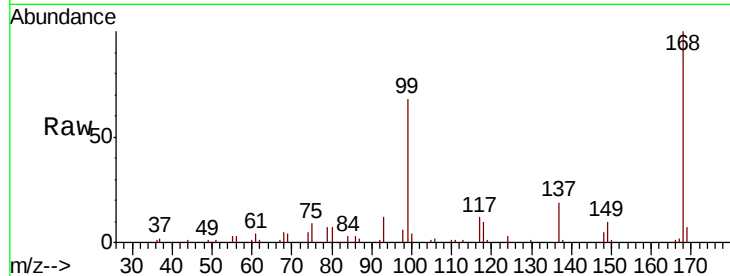
Tot Ion:117 Resp: 28328

Ion Ratio Lower Upper

117 100

119 5.9 75.5 113.3#

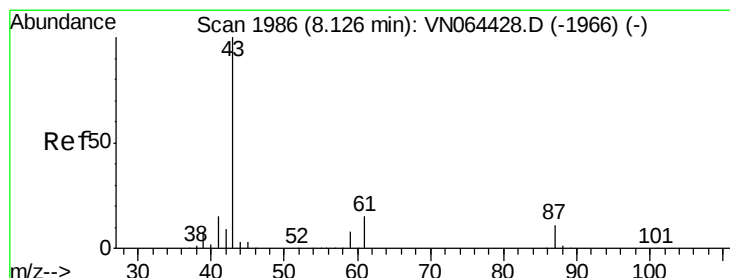
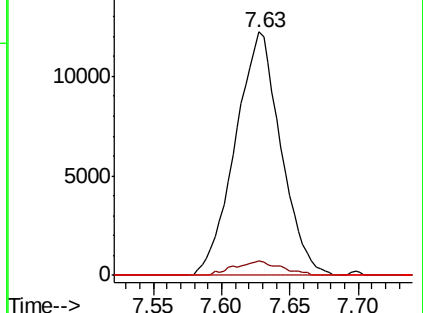
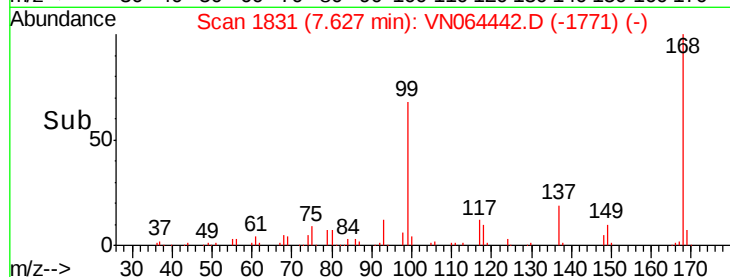
121 0.0 24.4 36.6#



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



#43

Isopropyl Acetate

Concen: 0.358 ug/l

RT: 8.26 min Scan# 2027

Delta R.T. 0.13 min

Lab File: VN064442.D

Acq: 4 Nov 2020 17:37

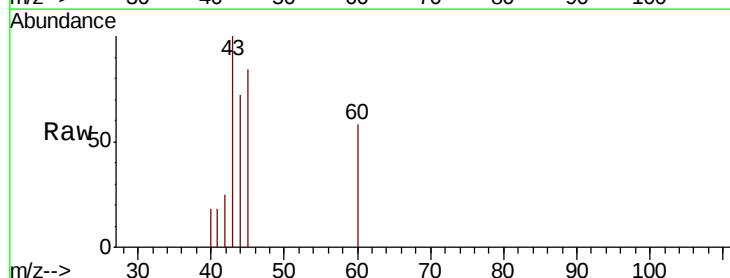
Tgt Ion: 43 Resp: 2990

Ion Ratio Lower Upper

43 100

61 0.0 14.0 21.0#

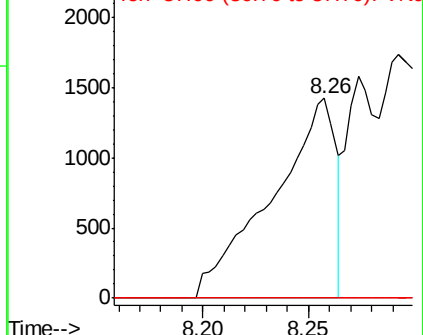
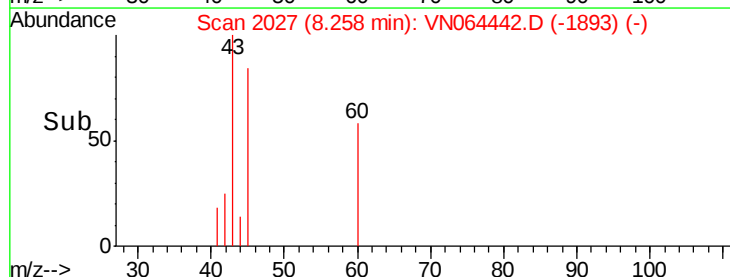
87 0.0 9.1 13.7#

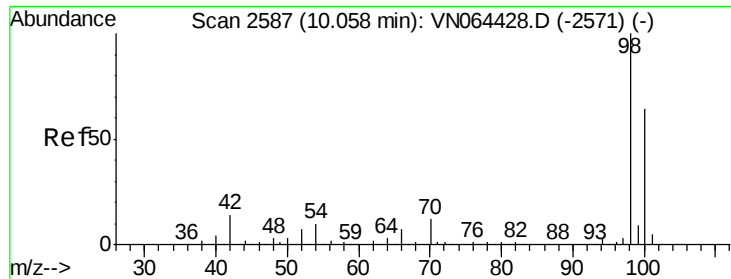


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

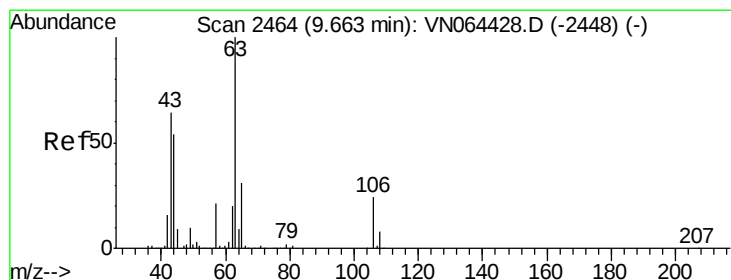
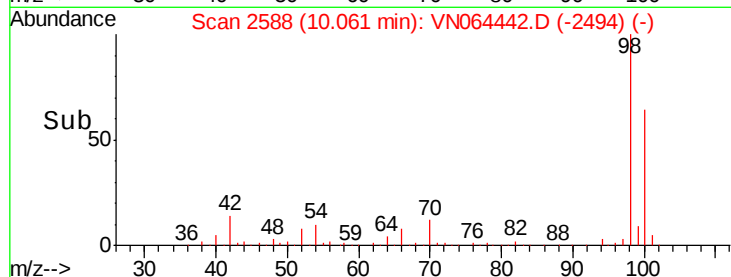
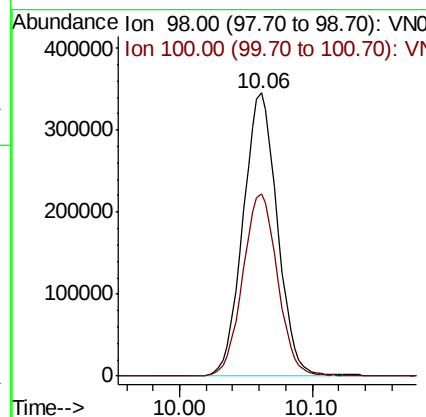
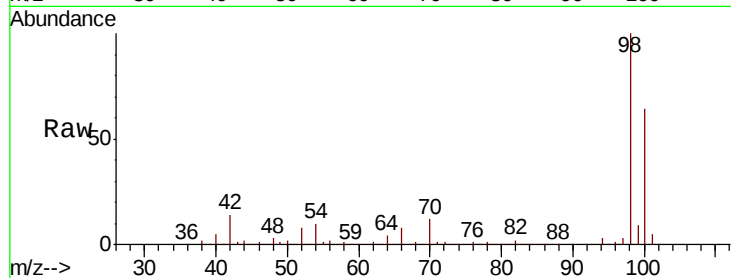




#50
Toluene-d8
Concen: 48.396 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN064442.D
Acq: 4 Nov 2020 17:37

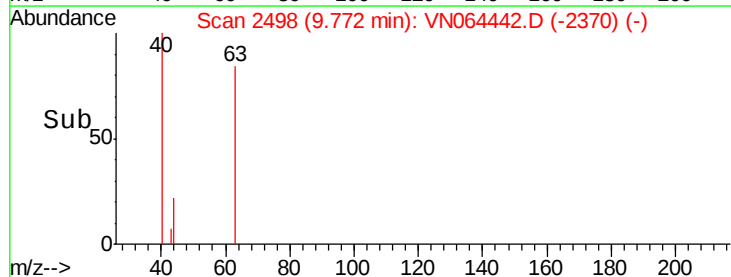
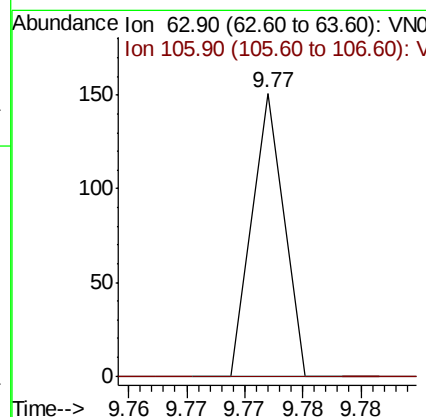
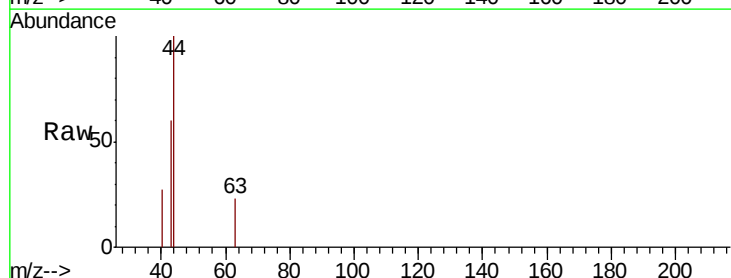
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB178-GW-153-155

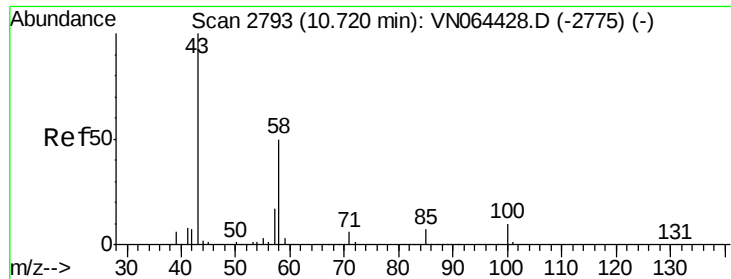
Tot Ion: 98 Resp: 621842
Ion Ratio Lower Upper
98 100
100 65.1 50.7 76.1



#58
2-Chloroethyl Vinyl ether
Concen: 21.547 ug/l
RT: 9.77 min Scan# 2498
Delta R.T. 0.11 min
Lab File: VN064442.D
Acq: 4 Nov 2020 17:37

Tgt Ion: 63 Resp: 29
Ion Ratio Lower Upper
63 100
106 0.0 19.5 29.3#

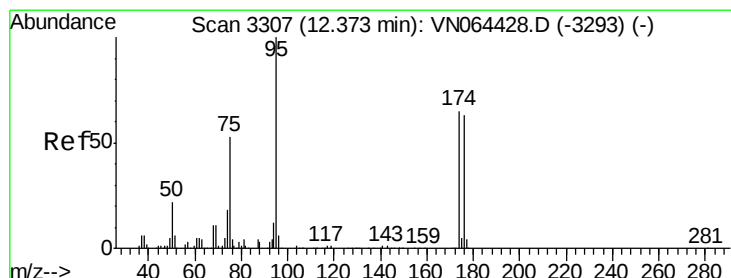
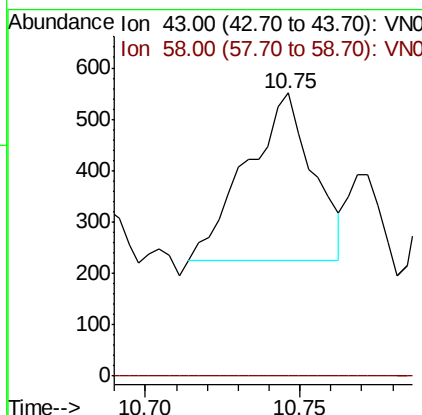
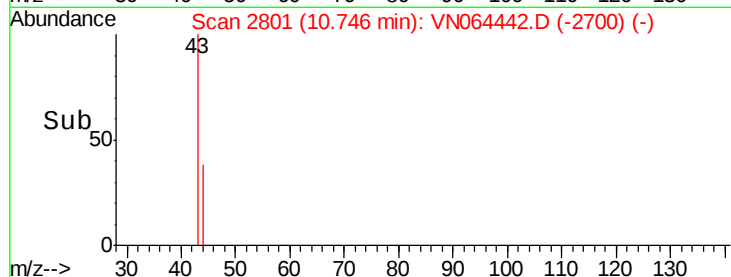
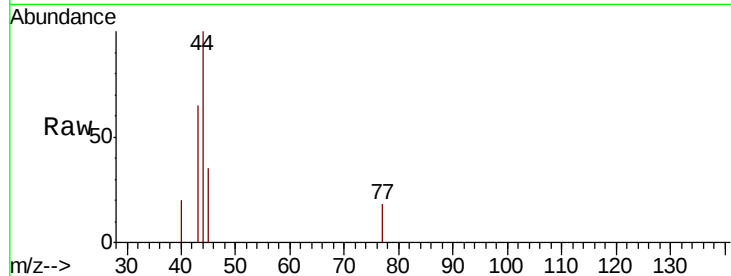




#59
2-Hexanone
Concen: 4.149 ug/l
RT: 10.75 min Scan# 2801
Delta R.T. 0.03 min
Lab File: VN064442.D
Acq: 4 Nov 2020 17:37

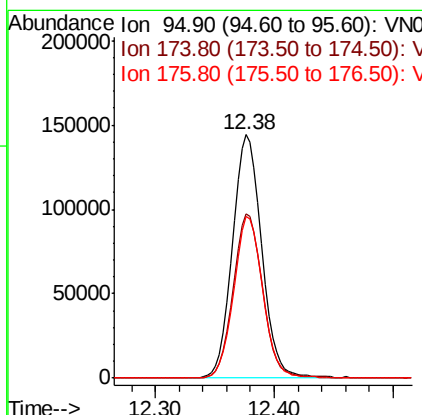
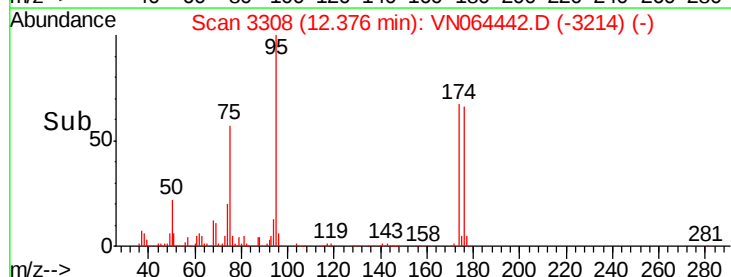
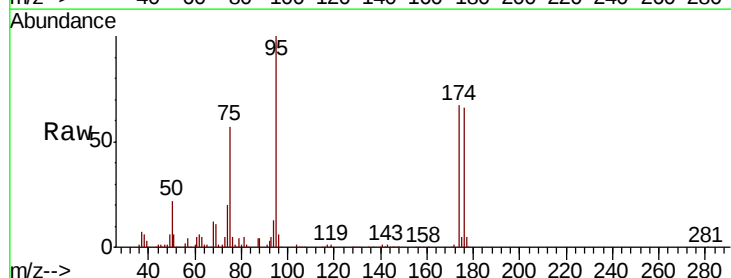
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB178-GW-153-155

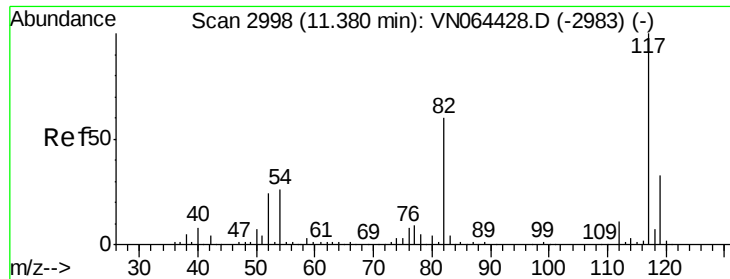
Tot Ion: 43 Resp: 488
Ion Ratio Lower Upper
43 100
58 0.0 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 50.525 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064442.D
Acq: 4 Nov 2020 17:37

Tgt Ion: 95 Resp: 245521
Ion Ratio Lower Upper
95 100
174 68.0 0.0 132.6
176 66.0 0.0 129.2

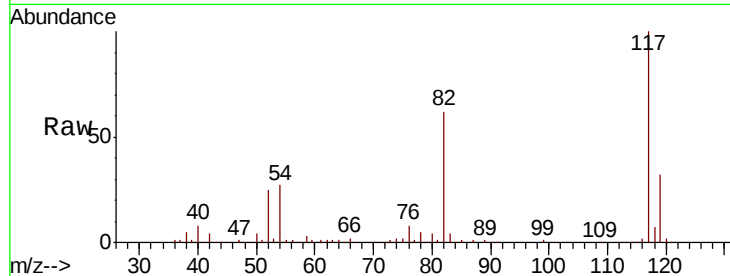




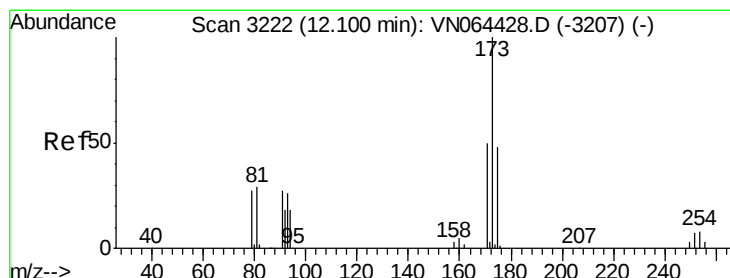
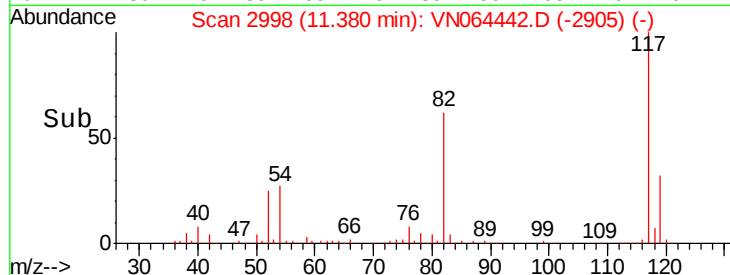
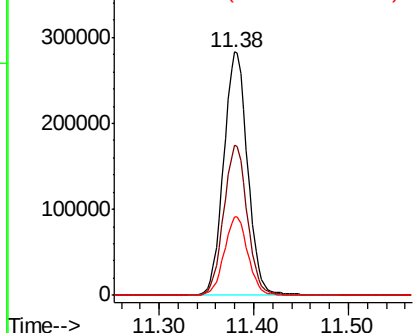
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064442.D
Acq: 4 Nov 2020 17:37

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB178-GW-153-155

Tot Ion:117 Resp: 498019
Ion Ratio Lower Upper
117 100
82 61.5 48.1 72.1
119 32.1 26.2 39.4

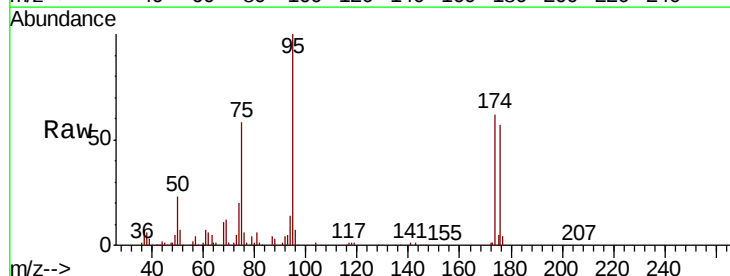


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

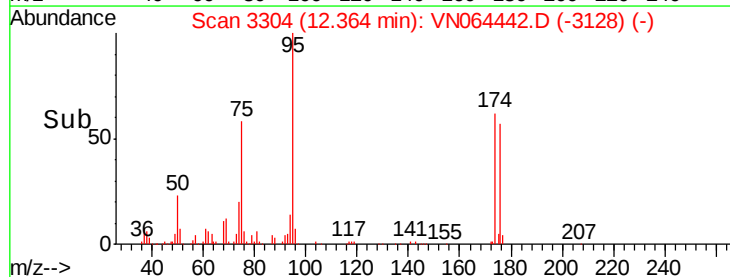
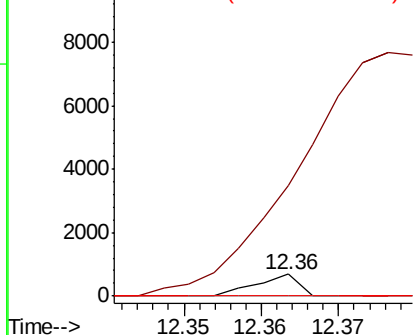


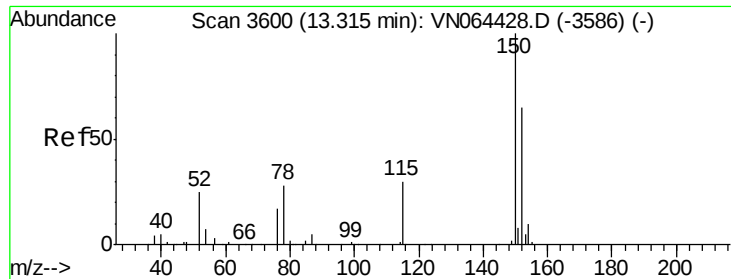
#71
Bromoform
Concen: 1.361 ug/l
RT: 12.36 min Scan# 3304
Delta R.T. 0.26 min
Lab File: VN064442.D
Acq: 4 Nov 2020 17:37

Tgt Ion:173 Resp: 271
Ion Ratio Lower Upper
173 100
175 3930.3 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: VN064442.D

Acq: 4 Nov 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB178-GW-153-155

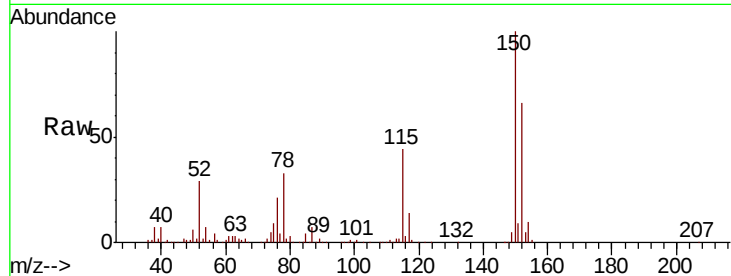
Tot Ion:152 Resp: 194454

Ion Ratio Lower Upper

152 100

115 65.2 32.0 96.0

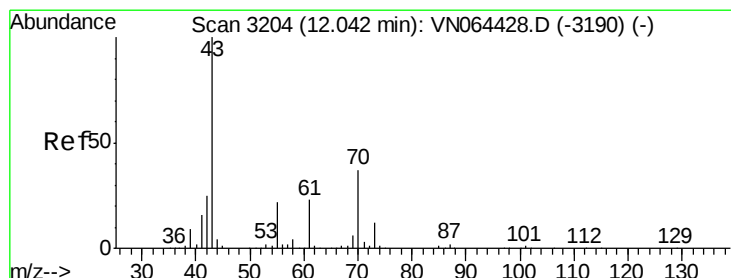
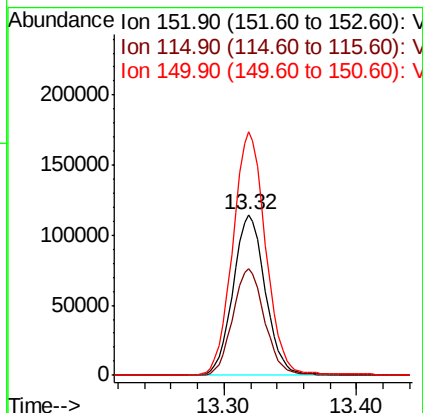
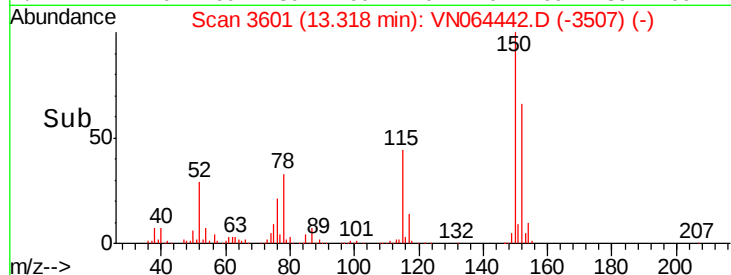
150 154.3 0.0 353.8



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-ethyl acetate

Concen: 1.226 ug/l

RT: 12.03 min Scan# 3200

Delta R.T. -0.01 min

Lab File: VN064442.D

Acq: 4 Nov 2020 17:37

Tgt Ion: 43 Resp: 87

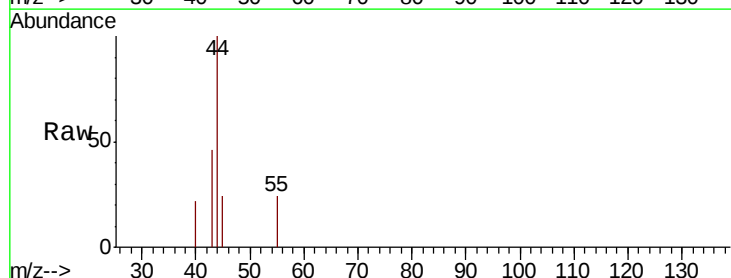
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 127.6 18.4 27.6#

61 0.0 17.8 26.6#

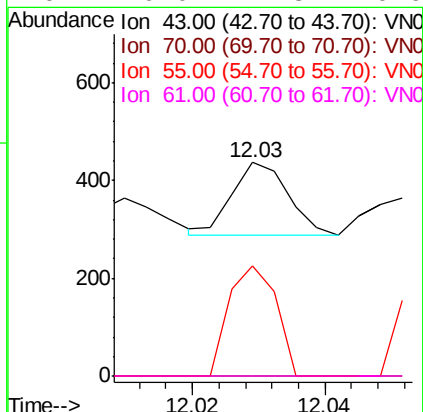
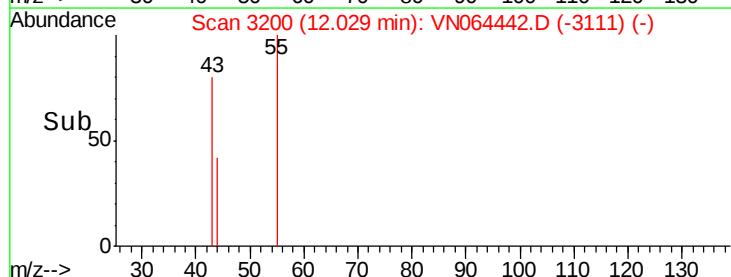


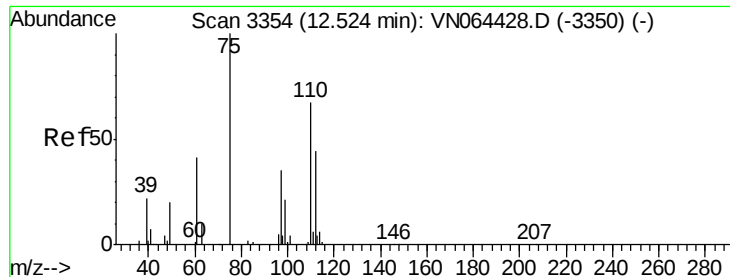
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 29.728 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064442.D

Acq: 4 Nov 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

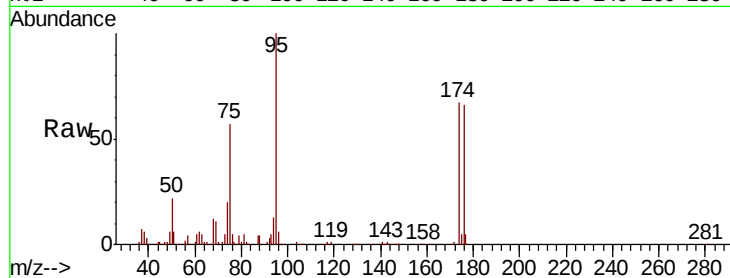
BP-VPB178-GW-153-155

Tot Ion: 75 Resp: 140064

Ion Ratio Lower Upper

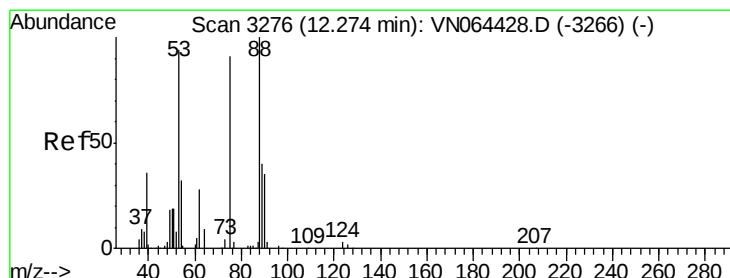
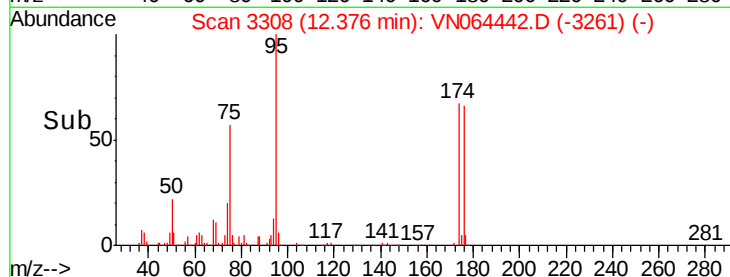
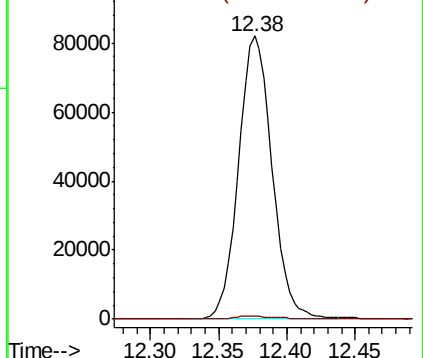
75 100

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: 83.005 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064442.D

Acq: 4 Nov 2020 17:37

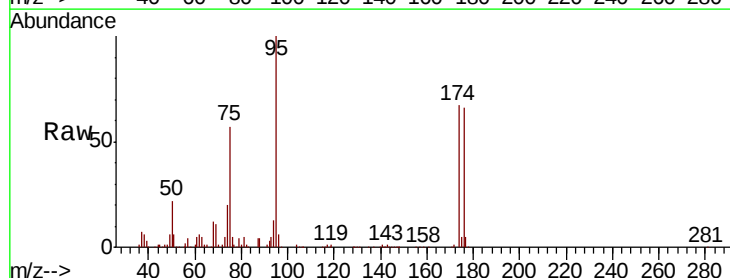
Tgt Ion: 75 Resp: 140064

Ion Ratio Lower Upper

75 100

53 0.1 84.0 126.0#

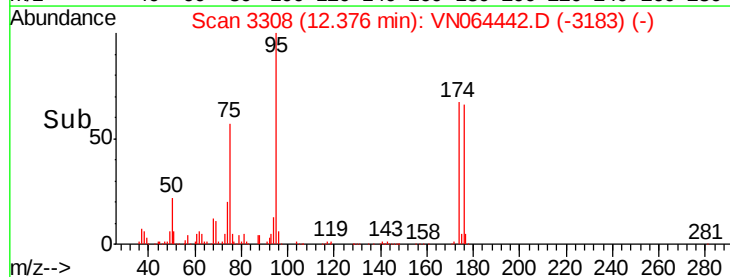
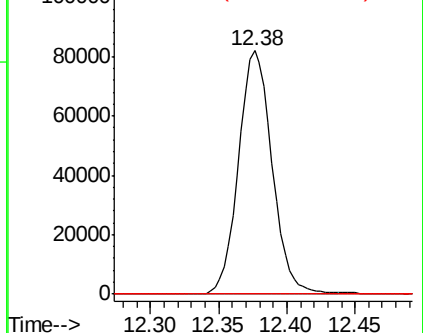
89 0.0 36.3 54.5#

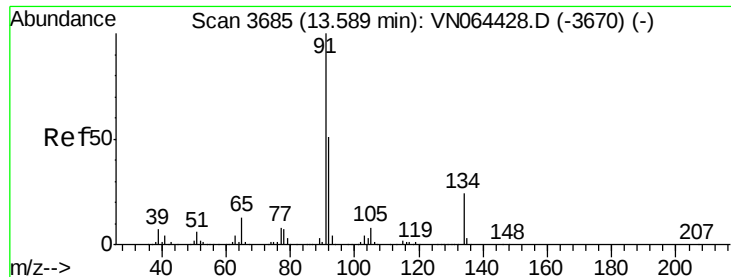


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#89

n-Butylbenzene

Concen: 0.207 ug/l

RT: 13.59 min Scan# 3685

Delta R.T. -0.00 min

Lab File: VN064442.D

Acq: 4 Nov 2020 17:37

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB178-GW-153-155

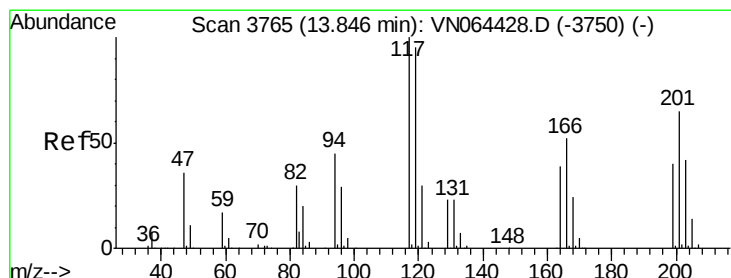
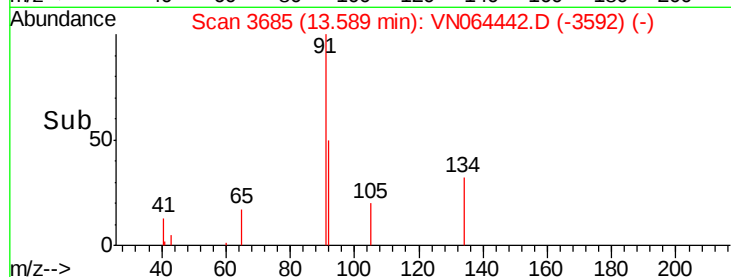
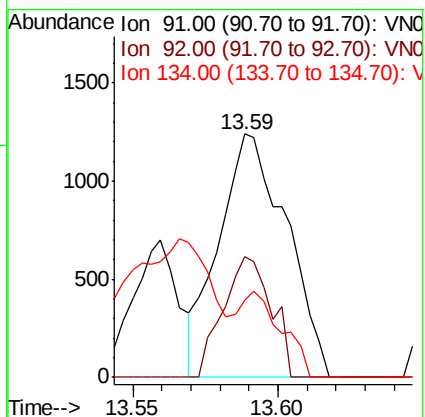
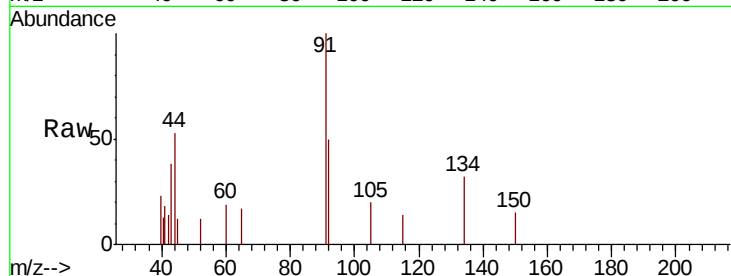
Tot Ion: 91 Resp: 2015

Ion Ratio Lower Upper

91 100

92 35.1 25.3 75.9

134 20.0 11.8 35.4



#90

Hexachloroethane

Concen: 0.790 ug/l

RT: 13.86 min Scan# 3769

Delta R.T. 0.01 min

Lab File: VN064442.D

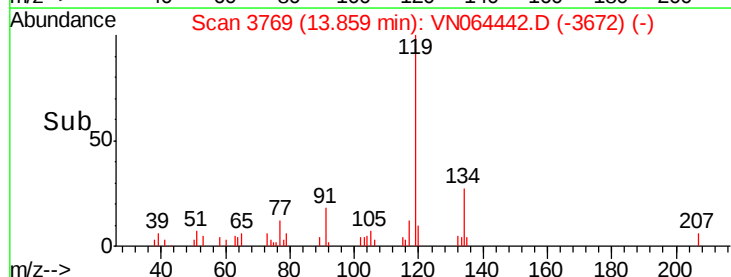
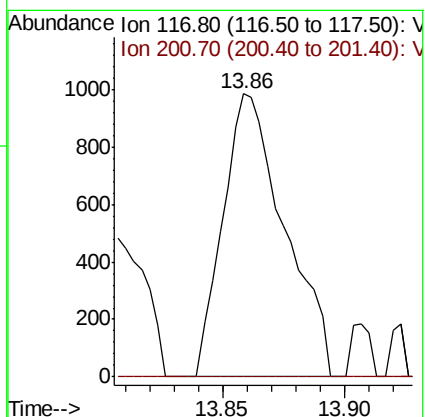
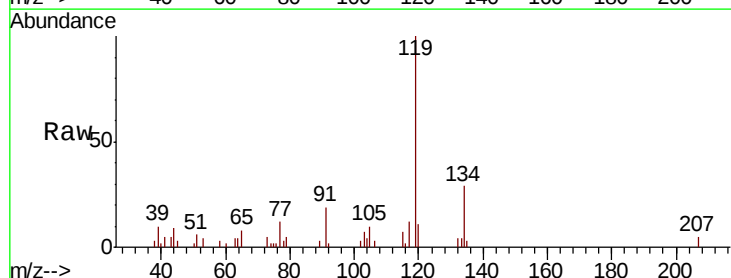
Acq: 4 Nov 2020 17:37

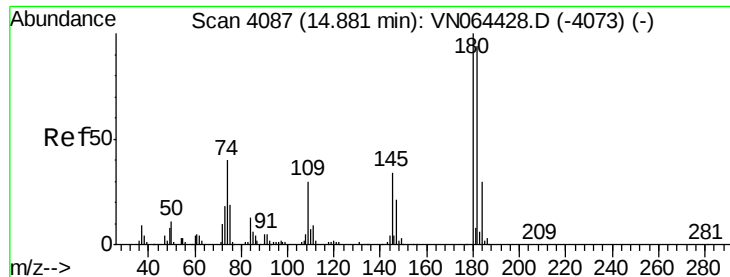
Tgt Ion: 117 Resp: 1729

Ion Ratio Lower Upper

117 100

201 0.0 32.5 97.5#

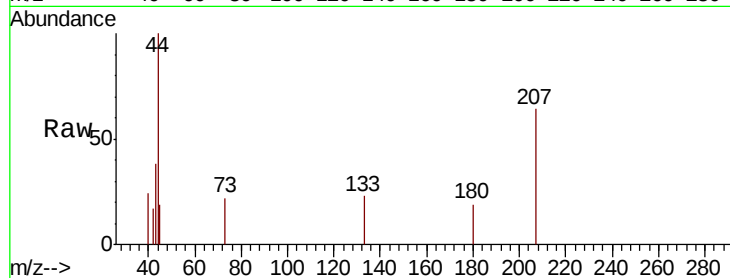




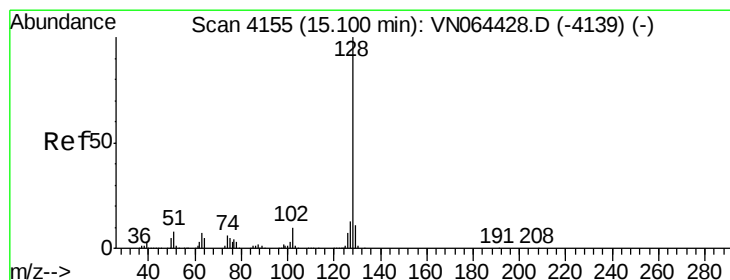
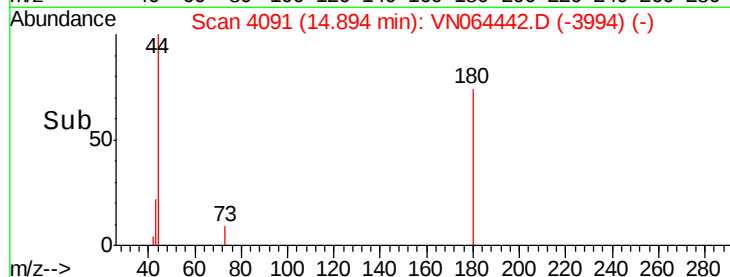
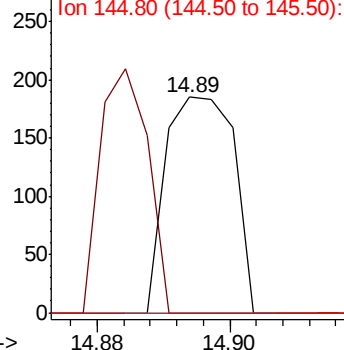
#93
1,2,4-Trichlorobenzene
Concen: 2.704 ug/l
RT: 14.89 min Scan# 4091
Delta R.T. 0.01 min
Lab File: VN064442.D
Acq: 4 Nov 2020 17:37

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB178-GW-153-155

Tot Ion:180 Resp: 132
Ion Ratio Lower Upper
180 100
182 79.5 47.3 142.0
145 0.0 16.7 50.1#

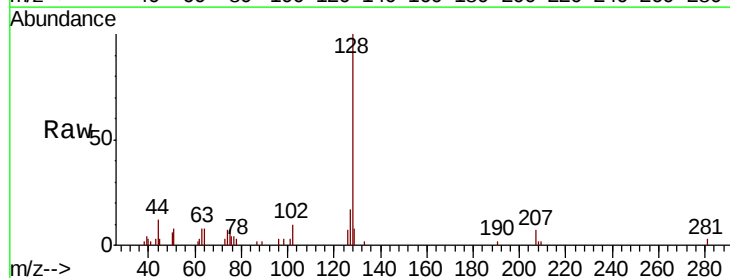


Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#95
Naphthalene
Concen: 4.975 ug/l
RT: 15.11 min Scan# 4157
Delta R.T. 0.01 min
Lab File: VN064442.D
Acq: 4 Nov 2020 17:37

Tgt Ion:128 Resp: 15547
Ion Ratio Lower Upper
128 100
127 14.2 10.5 15.7
129 4.2 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

