

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082520\
 Data File : VN063108.D
 Acq On : 25 Aug 2020 12:28
 Operator : JC/MD
 Sample : L3783-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB181-TB-20200819

Quant Time: Aug 26 05:37:48 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 06:09:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	138113	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	223465	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	235634	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	97272	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	83911	51.26	ug/l	0.00
Spiked Amount			Recovery	=	102.52%	
35) Dibromofluoromethane	7.55	113	75937	52.15	ug/l	0.00
Spiked Amount			Recovery	=	104.30%	
50) Toluene-d8	10.06	98	290824	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
62) 4-Bromofluorobenzene	12.38	95	103114	52.25	ug/l	0.00
Spiked Amount			Recovery	=	104.50%	

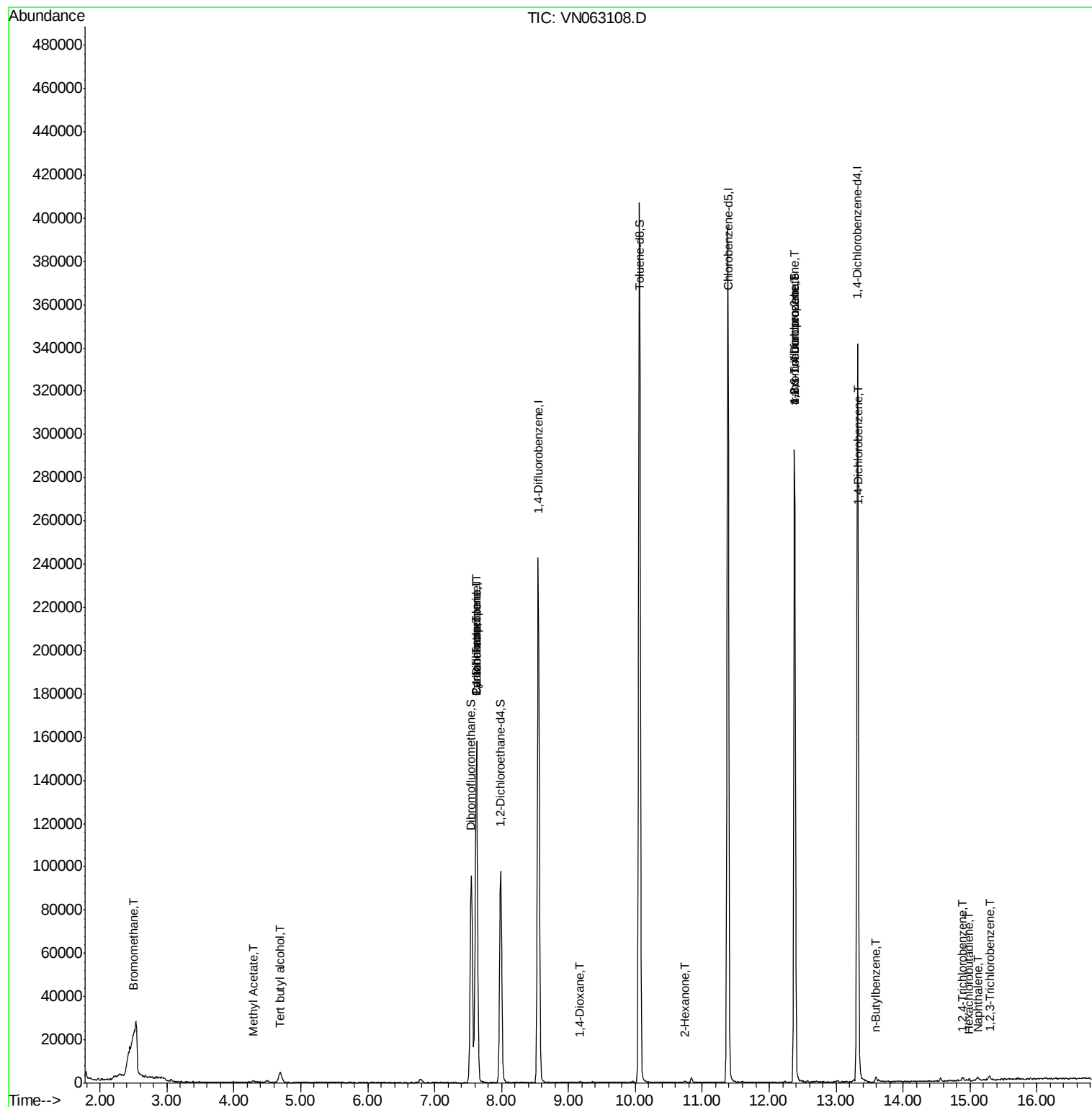
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.49	94	376	0.346	ug/l	83
11) Tert butyl alcohol	4.69	59	5217	22.501	ug/l #	74
16) Acetone	3.79	43	29	Below Cal	#	40
18) Methyl Acetate	4.28	43	859	0.528	ug/l #	52
20) Methylene Chloride	4.50	84	647	Below Cal	#	83
31) Cyclohexane	7.63	56	2344	0.972	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	9788	4.970	ug/l #	47
38) Carbon Tetrachloride	7.63	117	12428	6.251	ug/l #	16
49) 1,4-Dioxane	9.17	88	435	28.751	ug/l #	68
59) 2-Hexanone	10.73	43	859	0.637	ug/l	65
76) 1,2,3-Trichloropropane	12.38	75	49720	26.296	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	49720	72.222	ug/l #	15
88) 1,4-Dichlorobenzene	13.34	146	807	0.253	ug/l #	43
89) n-Butylbenzene	13.60	91	2073	3.140	ug/l	87
93) 1,2,4-Trichlorobenzene	14.89	180	883	5.021	ug/l #	75
94) Hexachlorobutadiene	14.99	225	393	0.350	ug/l #	58
95) Naphthalene	15.11	128	2189	6.143	ug/l #	73
96) 1,2,3-Trichlorobenzene	15.29	180	952	4.496	ug/l	92

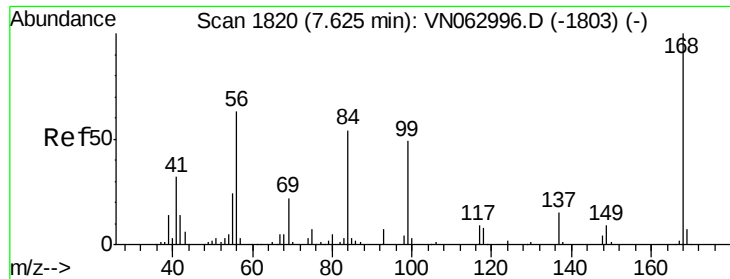
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN063108.D

Acq: 25 Aug 2020 12:28

Instrument :

MSVOA_N

ClientSampleId :

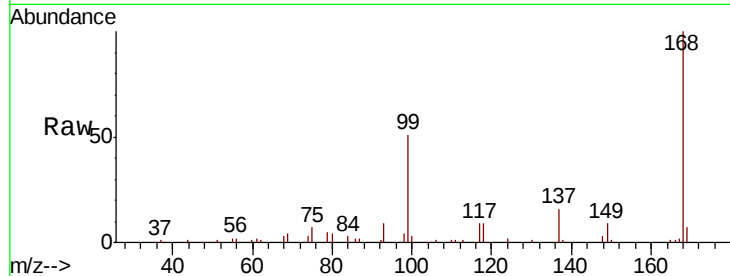
BP-VPB181-TB-20200819

Tot Ion:168 Resp: 138113

Ion Ratio Lower Upper

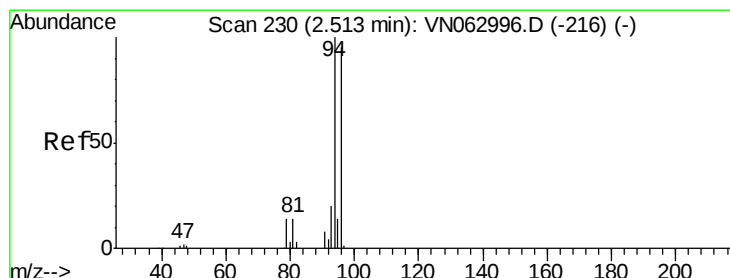
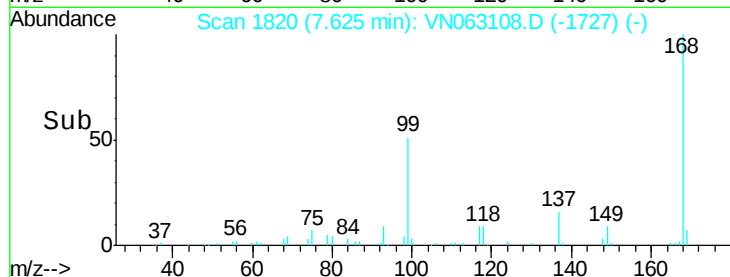
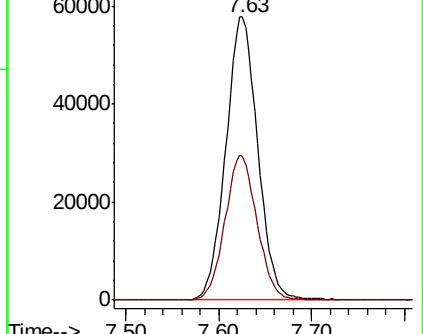
168 100

99 50.7 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: 0.346 ug/l

RT: 2.49 min Scan# 222

Delta R.T. -0.03 min

Lab File: VN063108.D

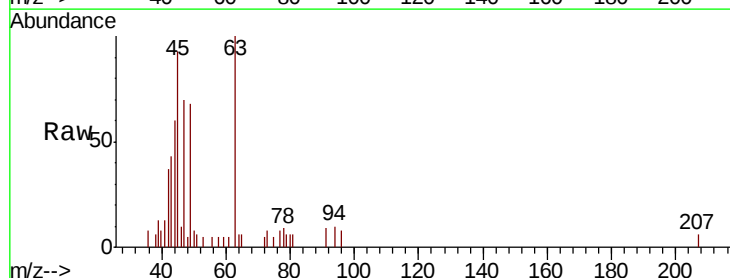
Acq: 25 Aug 2020 12:28

Tgt Ion: 94 Resp: 376

Ion Ratio Lower Upper

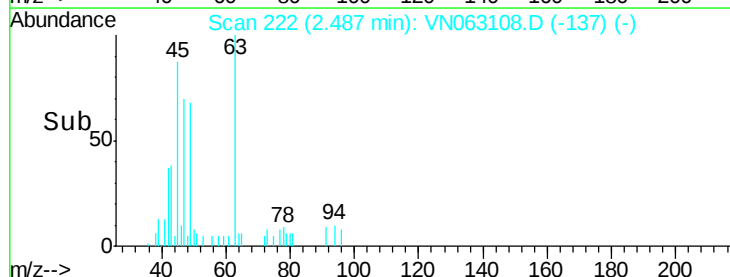
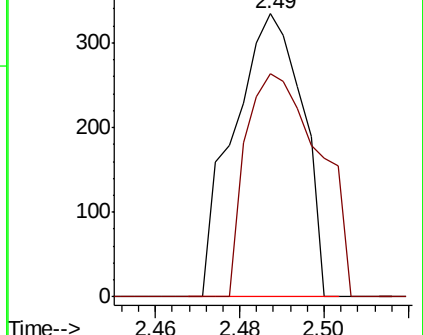
94 100

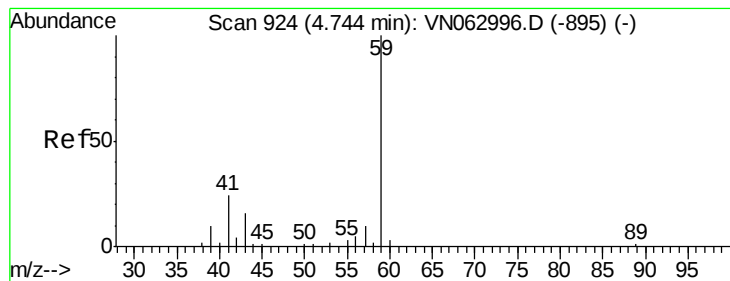
96 78.7 75.8 113.8



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



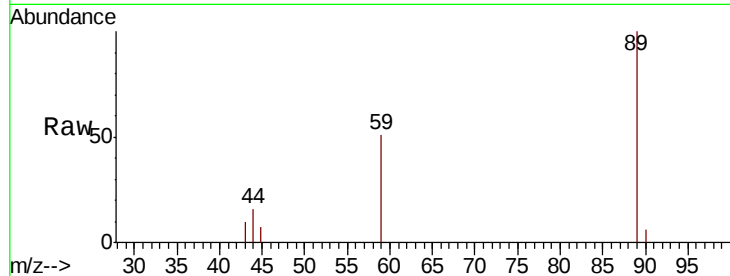


#11

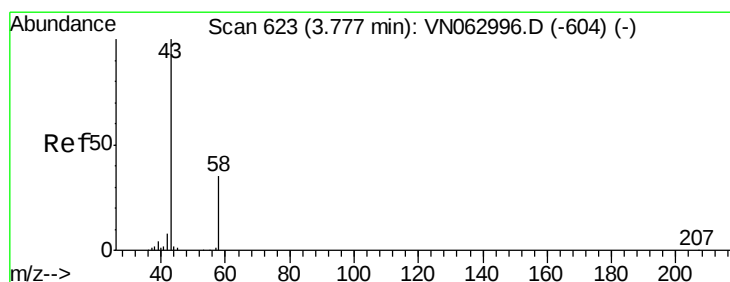
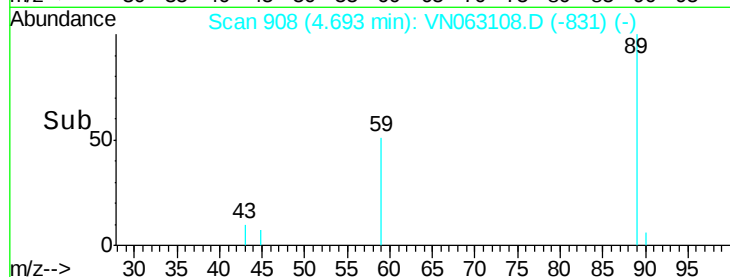
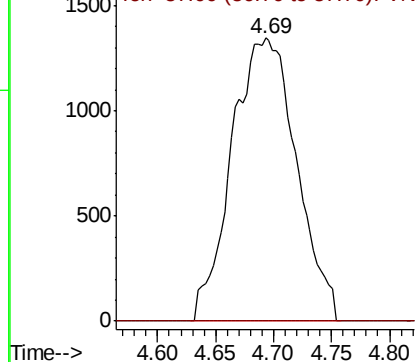
Tert butyl alcohol
 Concen: 22.501 ug/l
 RT: 4.69 min Scan# 908
 Delta R.T. -0.05 min
 Lab File: VN063108.D
 Acq: 25 Aug 2020 12:28

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB181-TB-20200819

Tot Ion: 59 Resp: 5217
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.6#



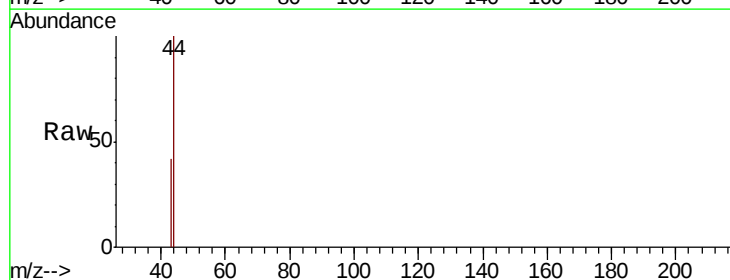
Abundance Ion 59.00 (58.70 to 59.70): VN0
 Ion 57.00 (56.70 to 57.70): VN0



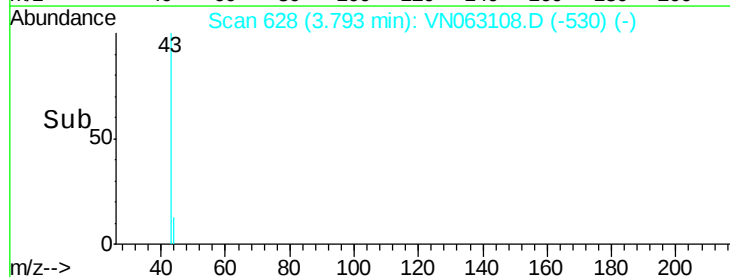
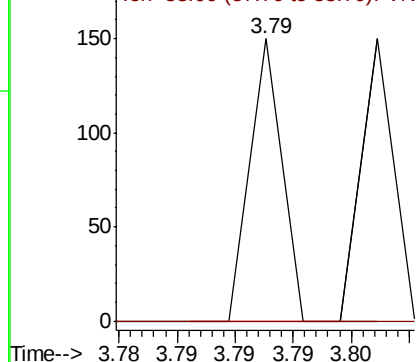
#16

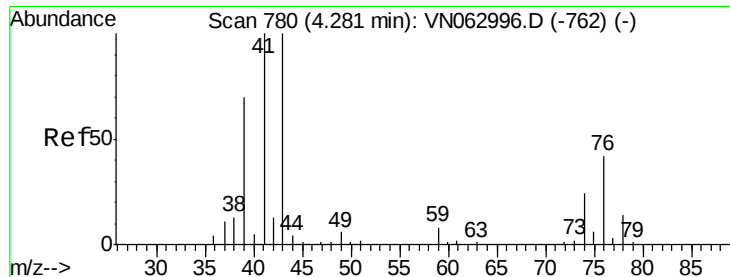
Acetone
 Concen: Below Cal
 RT: 3.79 min Scan# 628
 Delta R.T. 0.02 min
 Lab File: VN063108.D
 Acq: 25 Aug 2020 12:28

Tgt Ion: 43 Resp: 29
 Ion Ratio Lower Upper
 43 100
 58 0.0 27.8 41.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

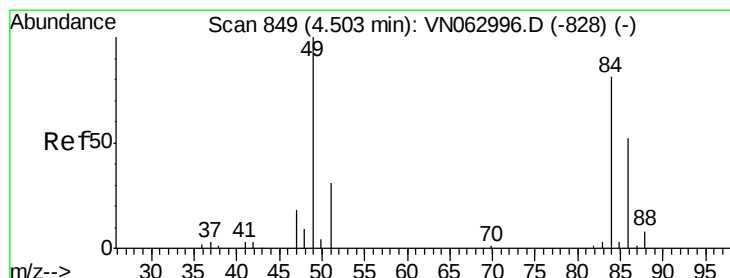
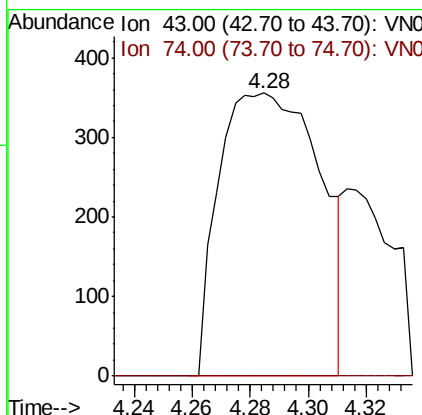
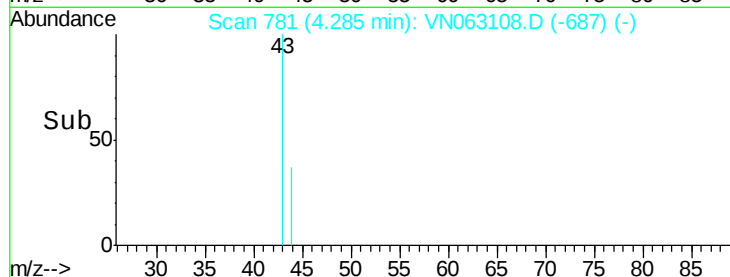
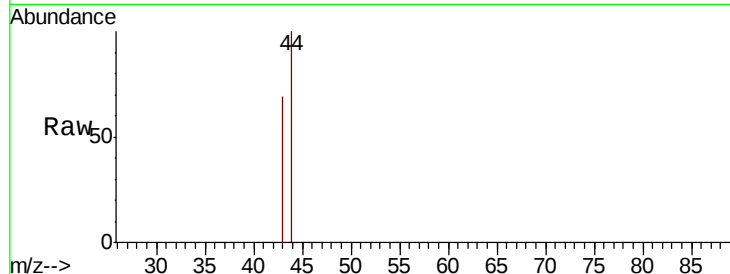




#18
Methyl Acetate
Concen: 0.528 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.00 min
Lab File: VN063108.D
Acq: 25 Aug 2020 12:28

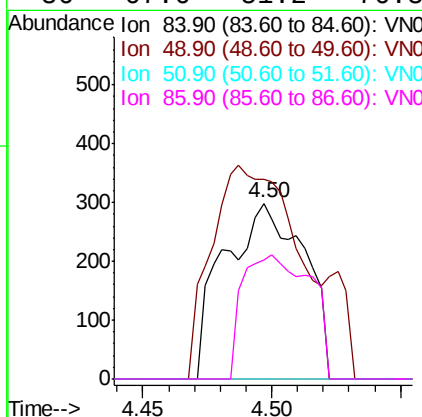
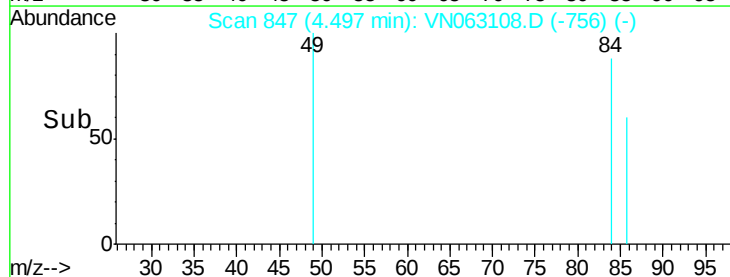
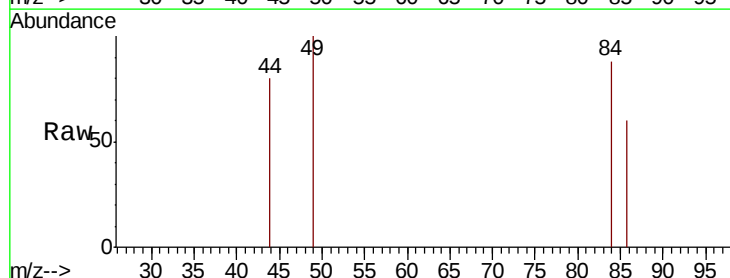
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-TB-20200819

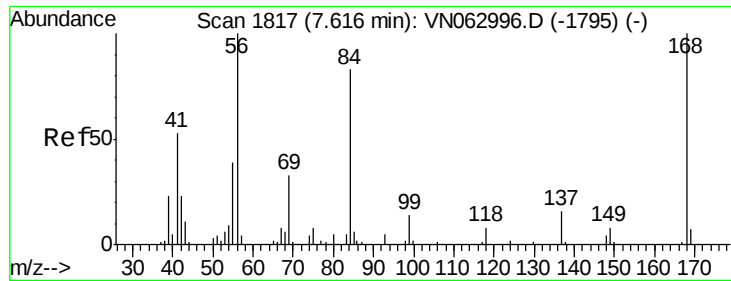
Tot Ion: 43 Resp: 859
Ion Ratio Lower Upper
43 100
74 0.0 18.6 28.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.50 min Scan# 847
Delta R.T. -0.01 min
Lab File: VN063108.D
Acq: 25 Aug 2020 12:28

Tgt Ion: 84 Resp: 647
Ion Ratio Lower Upper
84 100
49 113.4 98.7 148.1
51 0.0 30.8 46.2#
86 67.6 51.2 76.8

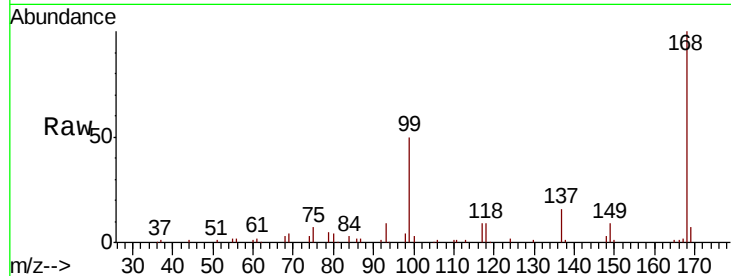




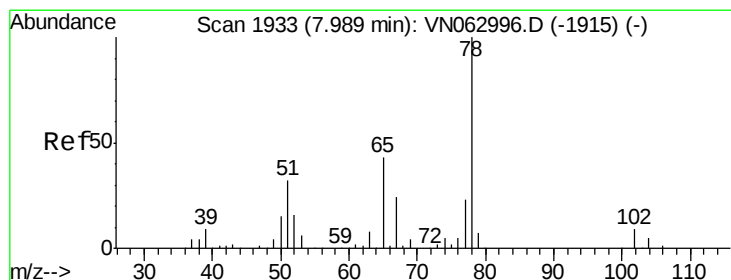
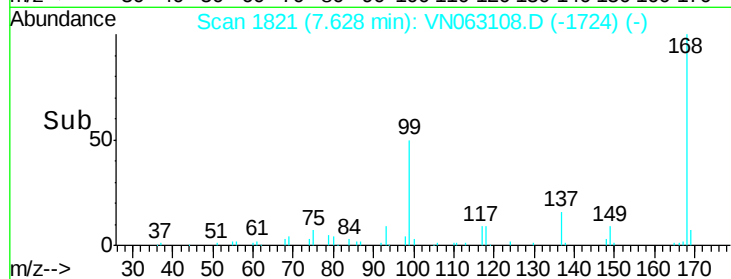
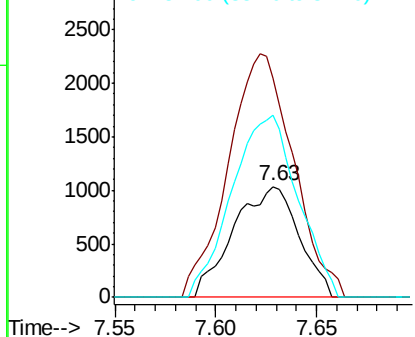
#31
Cyclohexane
Concen: 0.972 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.01 min
Lab File: VN063108.D
Acq: 25 Aug 2020 12:28

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-TB-20200819

Tot Ion: 56 Resp: 2344
Ion Ratio Lower Upper
56 100
69 181.3 26.6 40.0#
84 164.4 66.4 99.6#

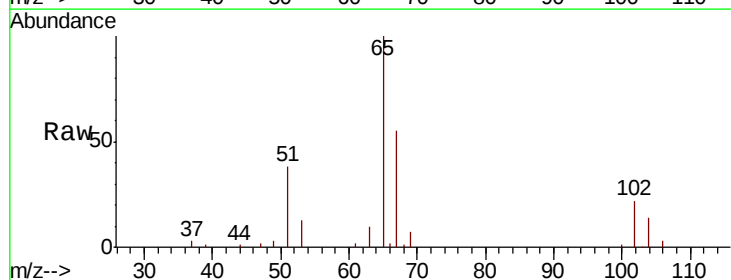


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

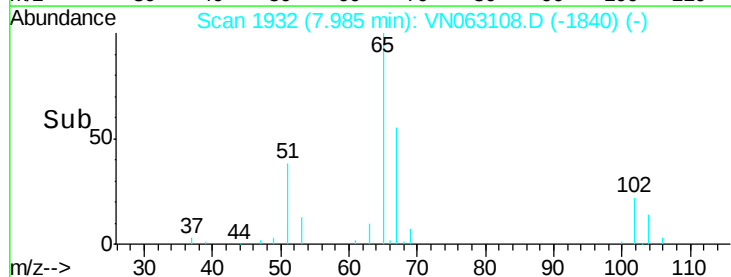
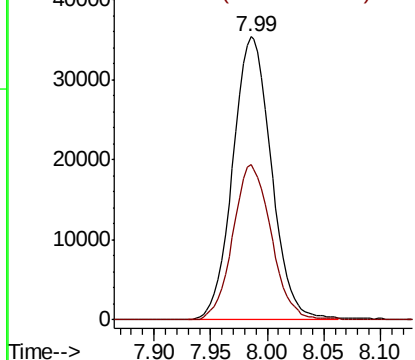


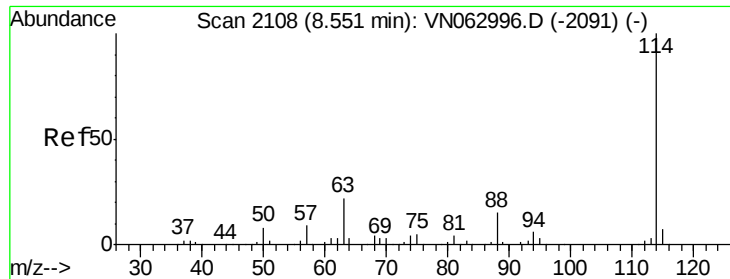
#33
1,2-Dichloroethane-d4
Concen: 51.262 ug/l
RT: 7.99 min Scan# 1932
Delta R.T. -0.00 min
Lab File: VN063108.D
Acq: 25 Aug 2020 12:28

Tgt Ion: 65 Resp: 83911
Ion Ratio Lower Upper
65 100
67 54.4 0.0 112.0



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

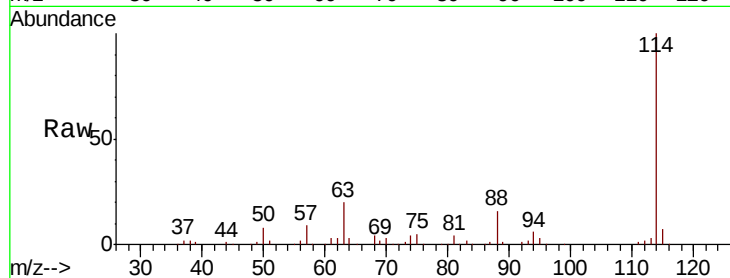




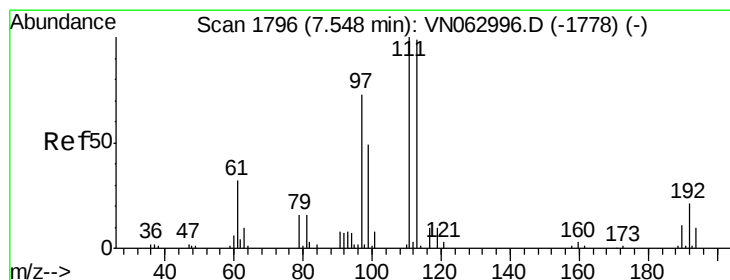
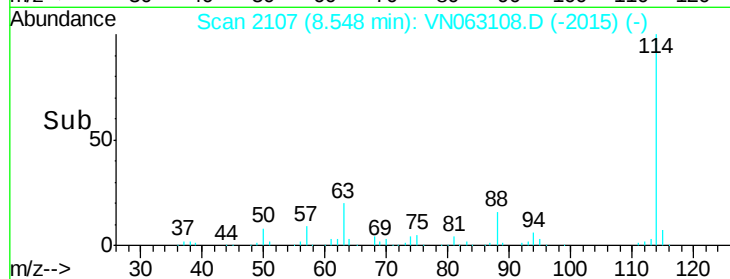
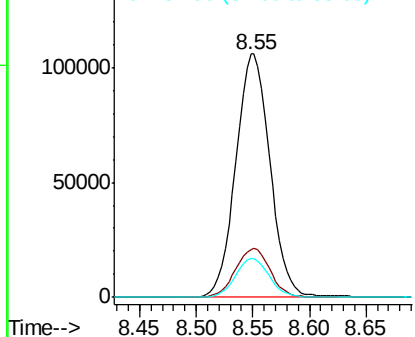
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2107
Delta R.T. -0.00 min
Lab File: VN063108.D
Acq: 25 Aug 2020 12:28

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-TB-20200819

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	43.2
88	16.1	0.0	30.6

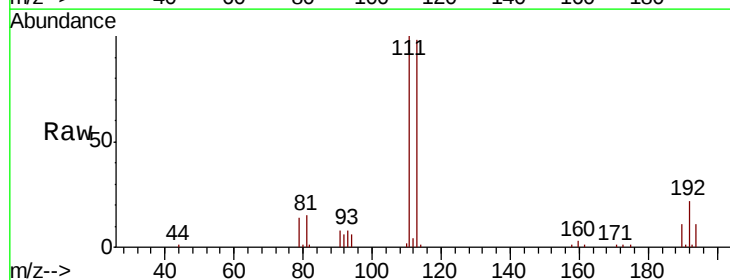


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

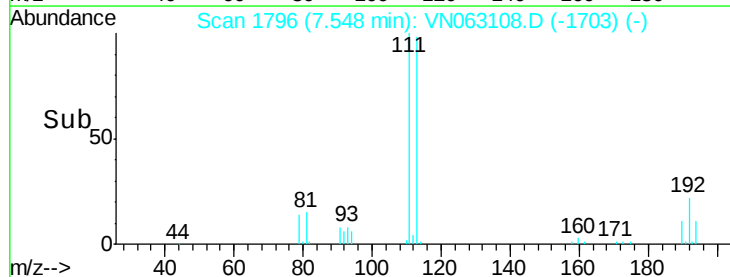
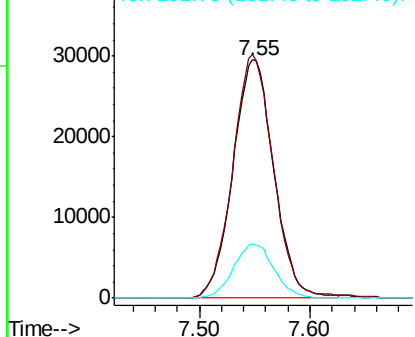


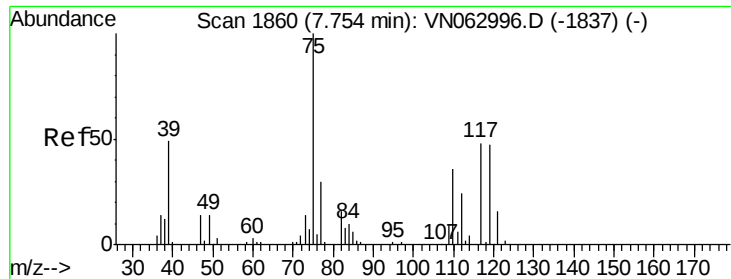
#35
Dibromofluoromethane
Concen: 52.151 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VN063108.D
Acq: 25 Aug 2020 12:28

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.5	81.7	122.5
192	22.5	17.5	26.3



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: 4.970 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.13 min

Lab File: VN063108.D

Acq: 25 Aug 2020 12:28

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-TB-20200819

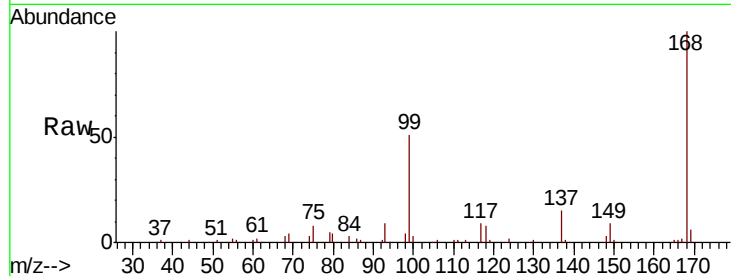
Tot Ion: 75 Resp: 9788

Ion Ratio Lower Upper

75 100

110 6.1 17.5 52.6#

77 0.0 24.2 36.4#

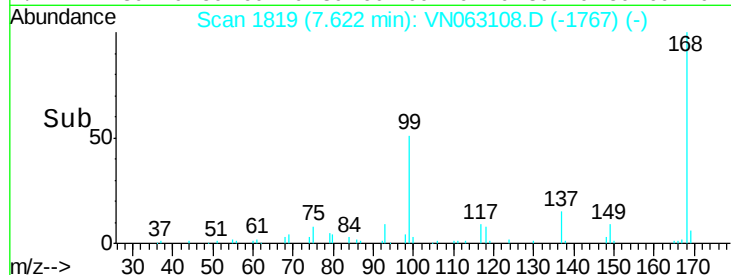


Abundance Ion 74.90 (74.60 to 75.60): VN063108.D (-1767) (-)

Ion 109.90 (109.60 to 110.60): VN063108.D (-1767) (-)

Ion 76.90 (76.60 to 77.60): VN063108.D (-1767) (-)

Time-->



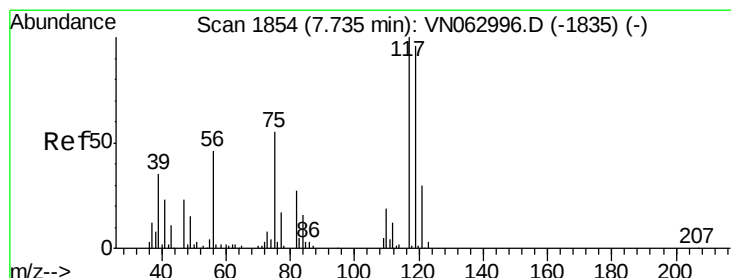
Abundance

Ion 74.90 (74.60 to 75.60): VN063108.D (-1767) (-)

Ion 109.90 (109.60 to 110.60): VN063108.D (-1767) (-)

Ion 76.90 (76.60 to 77.60): VN063108.D (-1767) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.251 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN063108.D

Acq: 25 Aug 2020 12:28

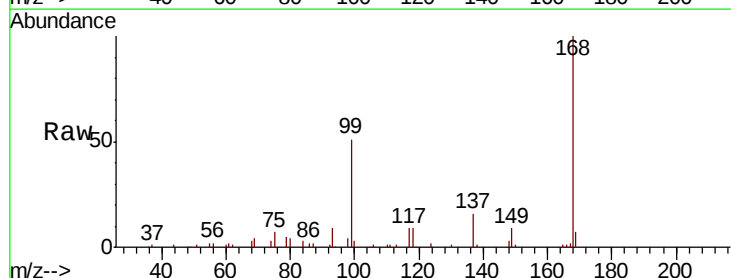
Tgt Ion: 117 Resp: 12428

Ion Ratio Lower Upper

117 100

119 5.4 76.2 114.4#

121 0.0 24.2 36.2#

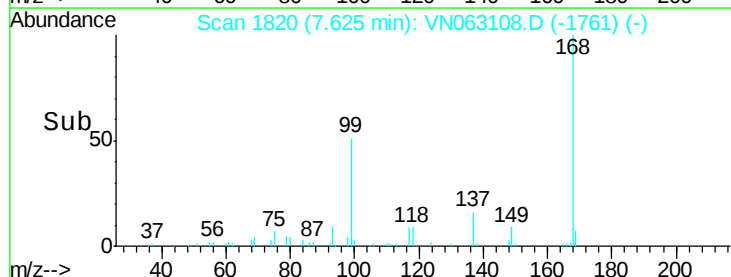


Abundance Ion 116.80 (116.50 to 117.50): VN063108.D (-1761) (-)

Ion 118.80 (118.50 to 119.50): VN063108.D (-1761) (-)

Ion 120.80 (120.50 to 121.50): VN063108.D (-1761) (-)

Time-->



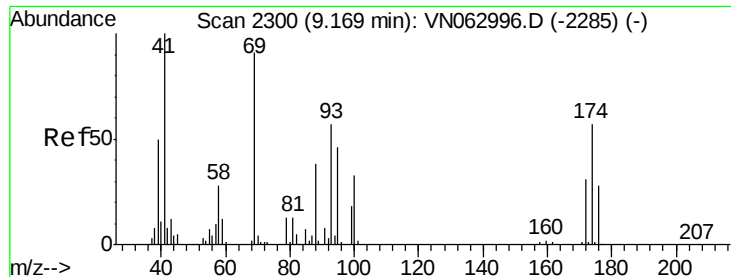
Abundance

Ion 116.80 (116.50 to 117.50): VN063108.D (-1761) (-)

Ion 118.80 (118.50 to 119.50): VN063108.D (-1761) (-)

Ion 120.80 (120.50 to 121.50): VN063108.D (-1761) (-)

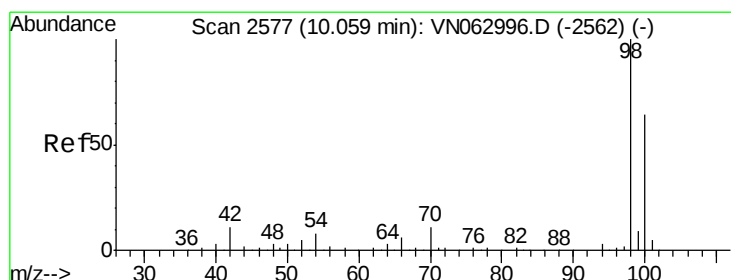
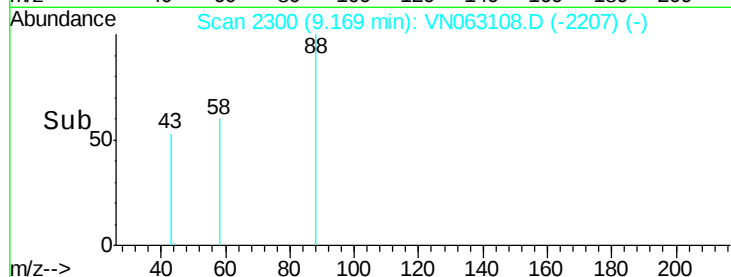
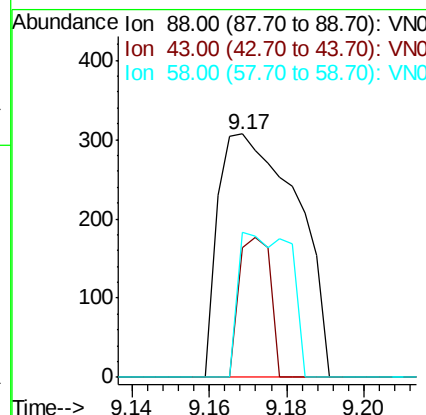
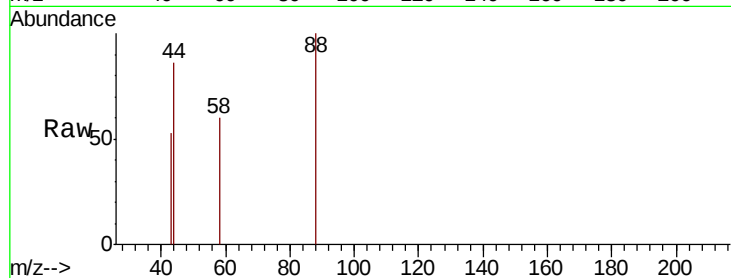
Time-->



#49
1,4-Dioxane
Concen: 28.751 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. 0.00 min
Lab File: VN063108.D
Acq: 25 Aug 2020 12:28

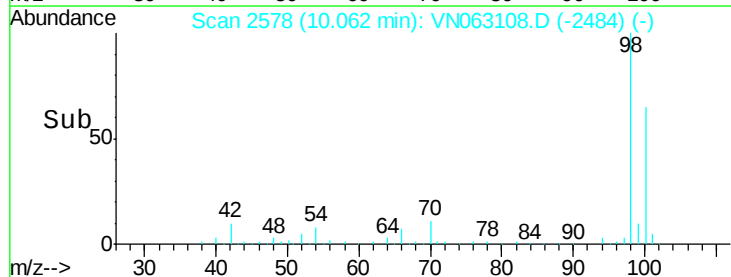
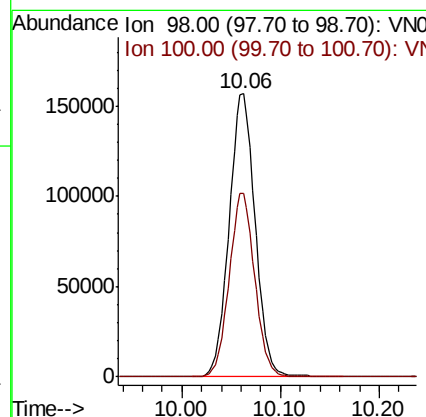
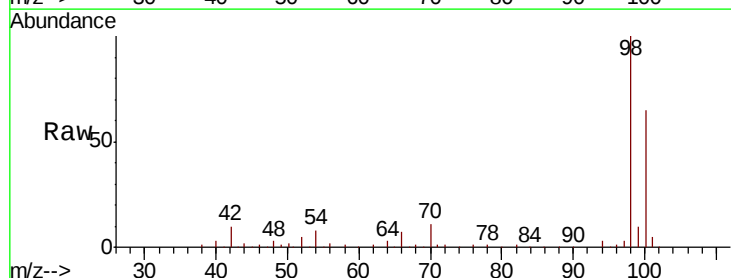
Instrument :
MSVOA_N
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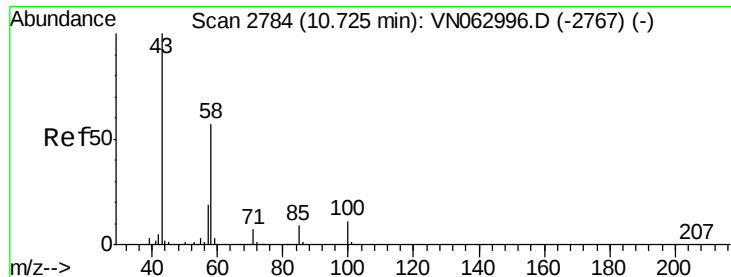
Tot Ion: 88 Resp: 435
Ion Ratio Lower Upper
88 100
43 22.3 25.2 37.8#
58 38.4 56.7 85.1#



#50
Toluene-d8
Concen: 51.999 ug/l
RT: 10.06 min Scan# 2578
Delta R.T. 0.00 min
Lab File: VN063108.D
Acq: 25 Aug 2020 12:28

Tgt Ion: 98 Resp: 290824
Ion Ratio Lower Upper
98 100
100 63.2 51.2 76.8

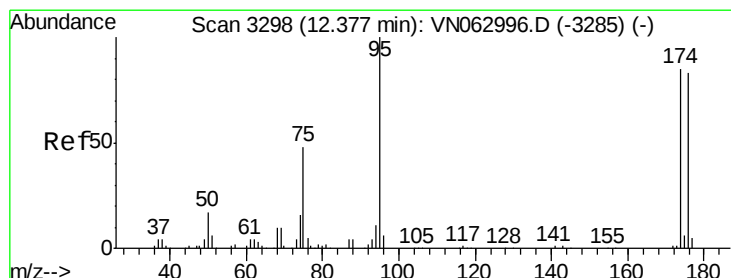
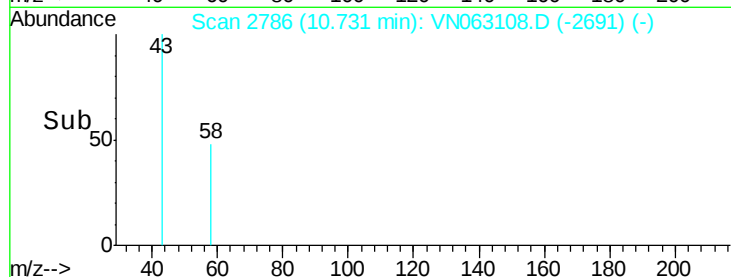
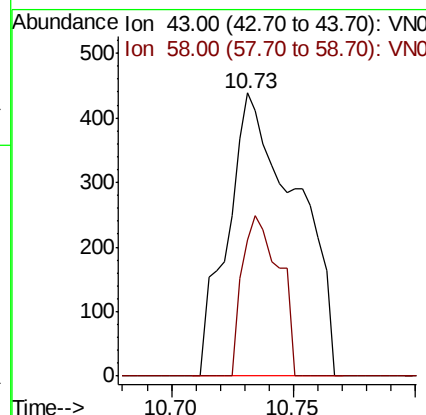
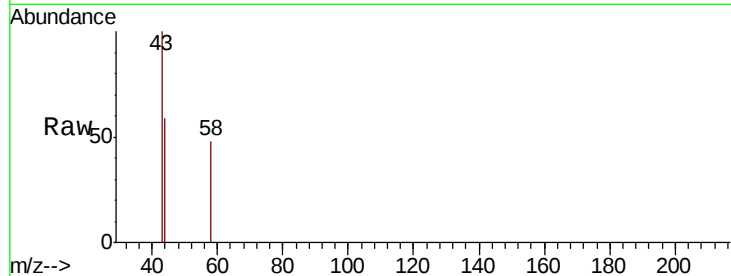




#59
2-Hexanone
Concen: 0.637 ug/l
RT: 10.73 min Scan# 2786
Delta R.T. 0.01 min
Lab File: VN063108.D
Acq: 25 Aug 2020 12:28

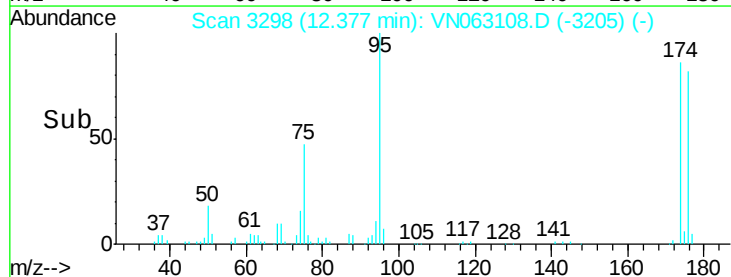
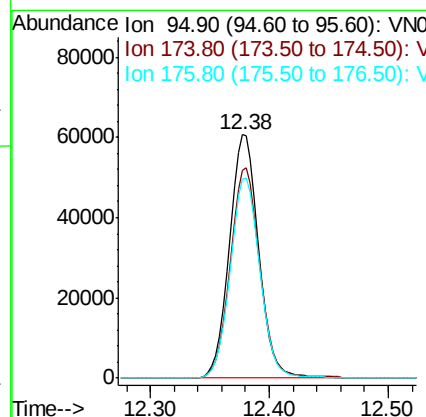
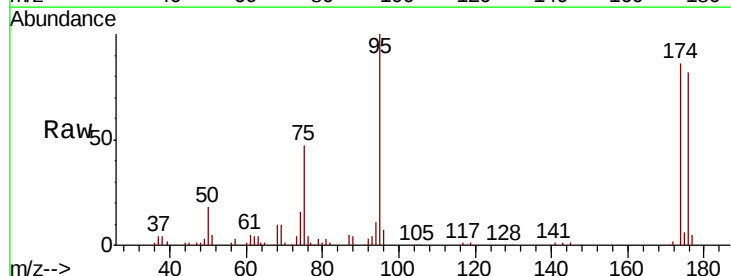
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-TB-20200819

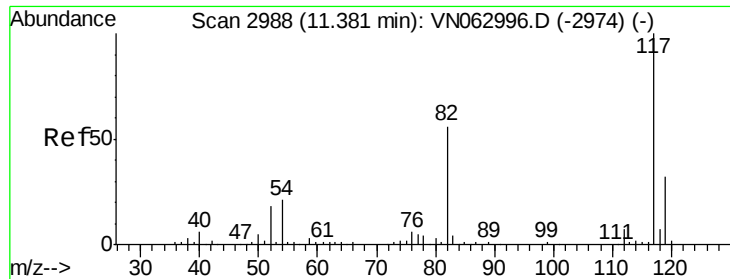
Tot Ion: 43 Resp: 859
Ion Ratio Lower Upper
43 100
58 30.3 28.1 84.3



#62
4-Bromofluorobenzene
Concen: 52.245 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN063108.D
Acq: 25 Aug 2020 12:28

Tgt Ion: 95 Resp: 103114
Ion Ratio Lower Upper
95 100
174 87.7 0.0 170.8
176 83.8 0.0 164.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN063108.D

Acq: 25 Aug 2020 12:28

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-TB-20200819

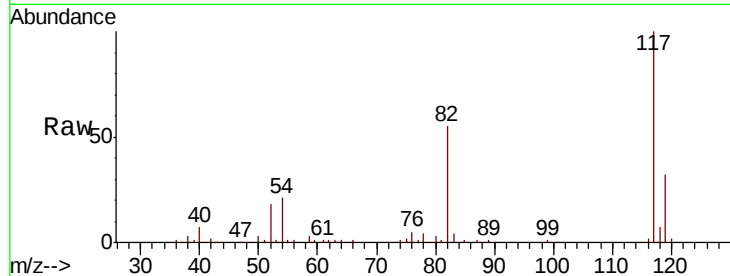
Tot Ion:117 Resp: 235634

Ion Ratio Lower Upper

117 100

82 55.2 44.5 66.7

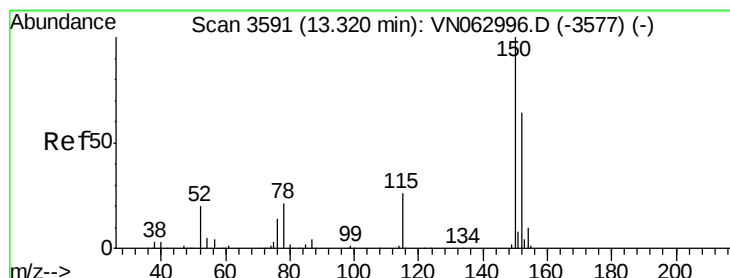
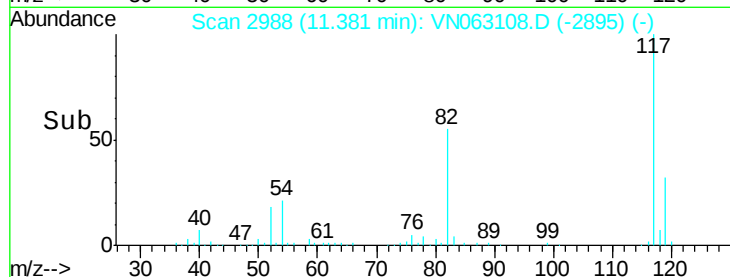
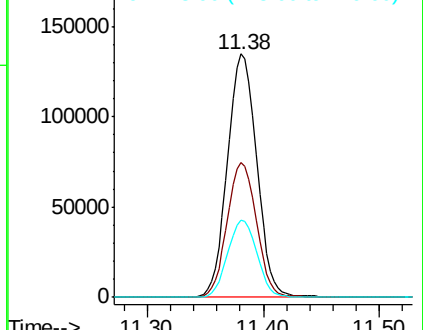
119 31.8 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN063108.D

Acq: 25 Aug 2020 12:28

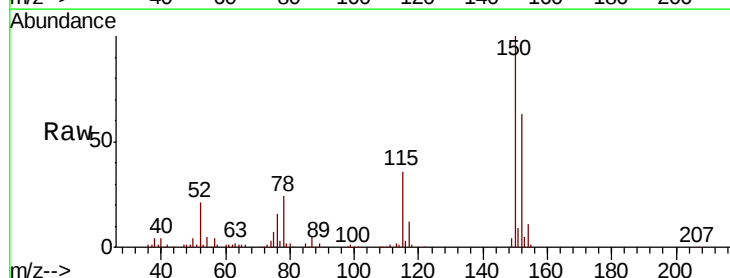
Tgt Ion:152 Resp: 97272

Ion Ratio Lower Upper

152 100

115 56.3 28.7 86.3

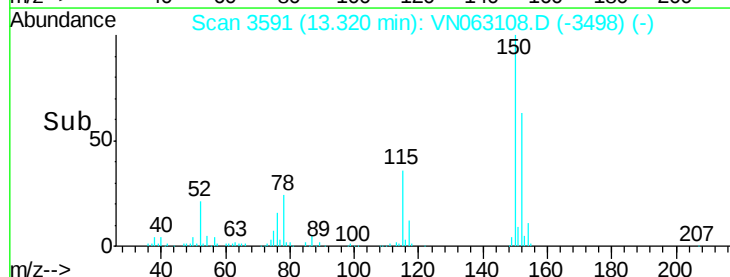
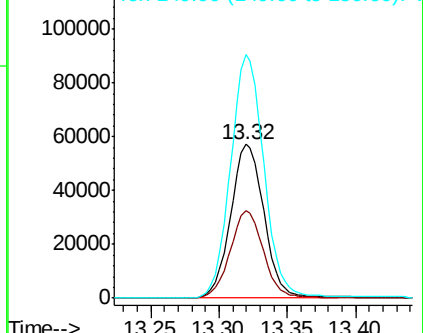
150 159.3 0.0 348.8

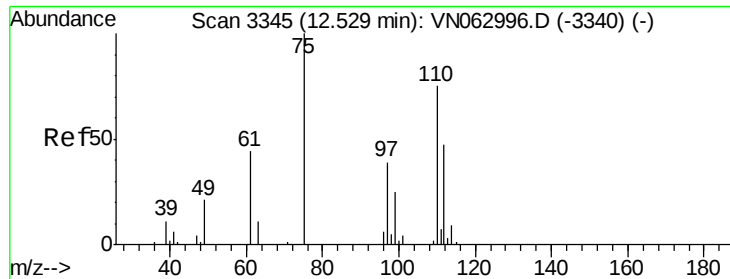


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

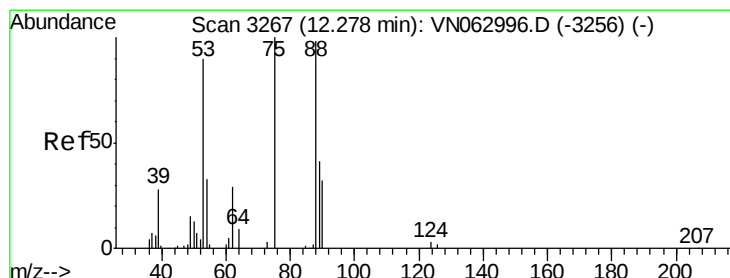
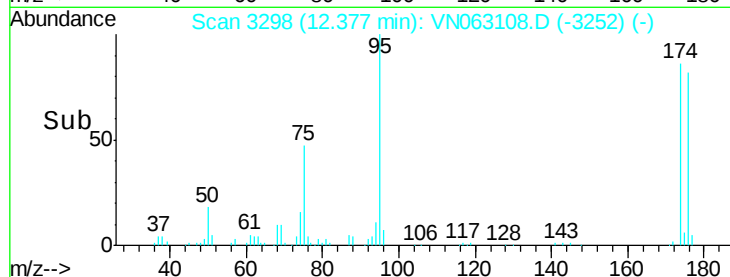
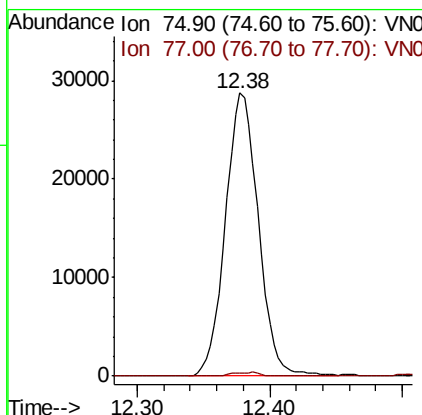
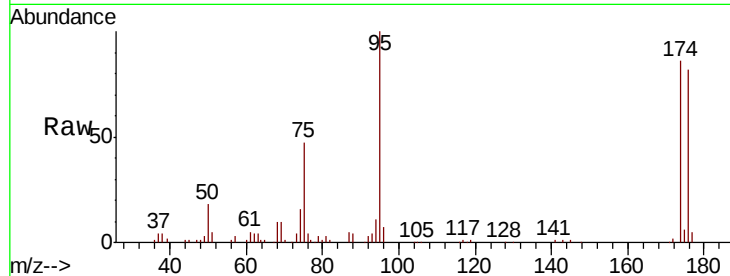




#76
 1,2,3-Trichloropropane
 Concen: 26.296 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN063108.D
 Acq: 25 Aug 2020 12:28

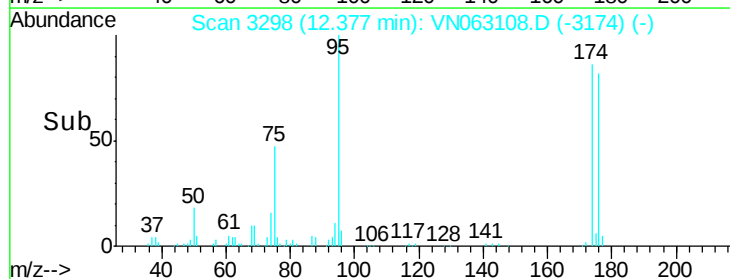
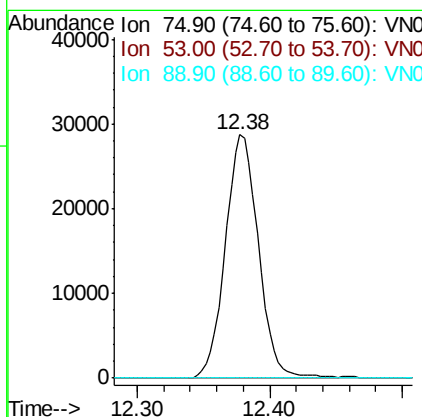
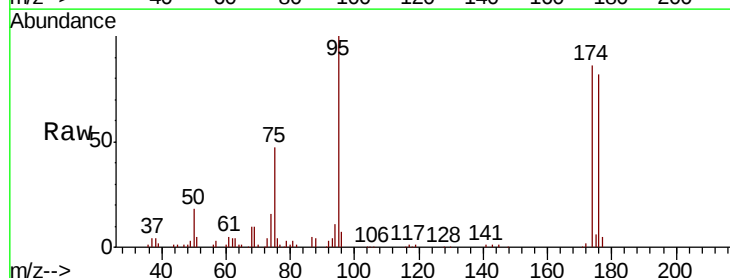
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB181-TB-20200819

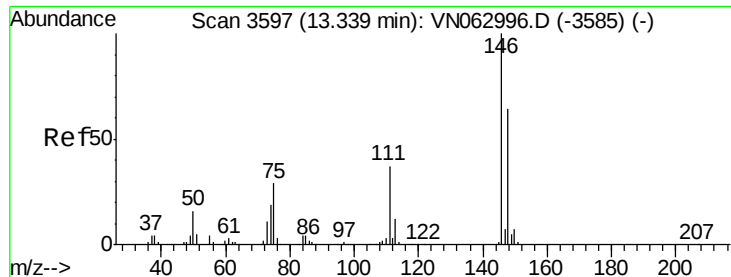
Tot Ion: 75 Resp: 49720
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.222 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN063108.D
 Acq: 25 Aug 2020 12:28

Tgt Ion: 75 Resp: 49720
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.2 103.8#
 89 0.0 34.2 51.4#





#88

1,4-Dichlorobenzene

Concen: 0.253 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN063108.D

Acq: 25 Aug 2020 12:28

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-TB-20200819

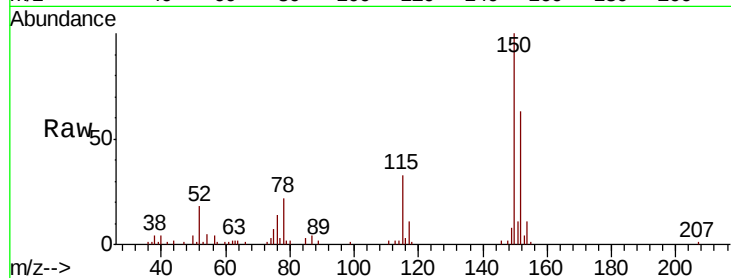
Tot Ion:146 Resp: 807

Ion Ratio Lower Upper

146 100

111 0.0 18.8 56.4#

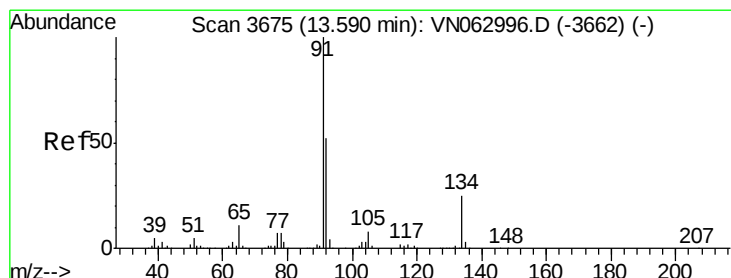
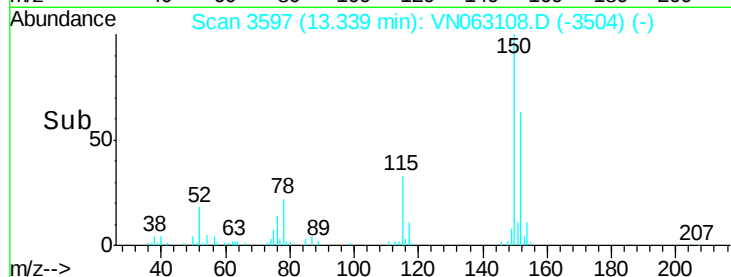
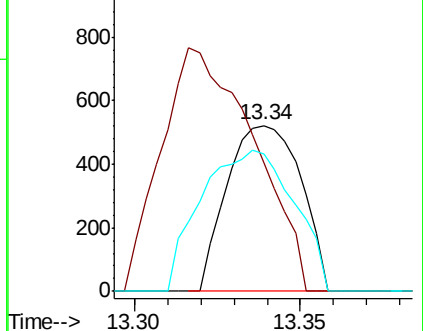
148 106.9 32.4 97.0#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 3.140 ug/l

RT: 13.60 min Scan# 3677

Delta R.T. 0.01 min

Lab File: VN063108.D

Acq: 25 Aug 2020 12:28

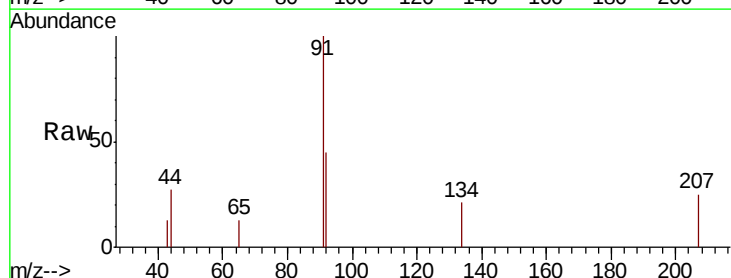
Tgt Ion: 91 Resp: 2073

Ion Ratio Lower Upper

91 100

92 40.3 25.9 77.6

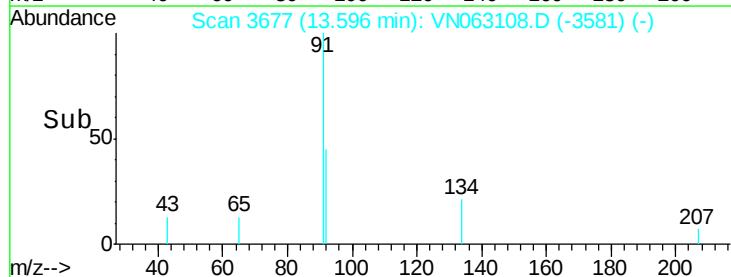
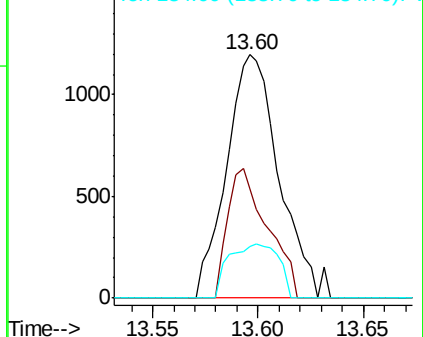
134 20.8 12.4 37.0

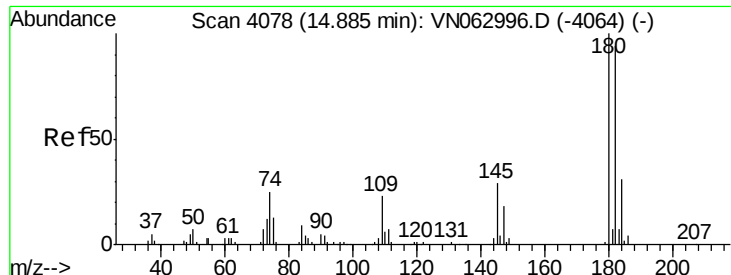


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V

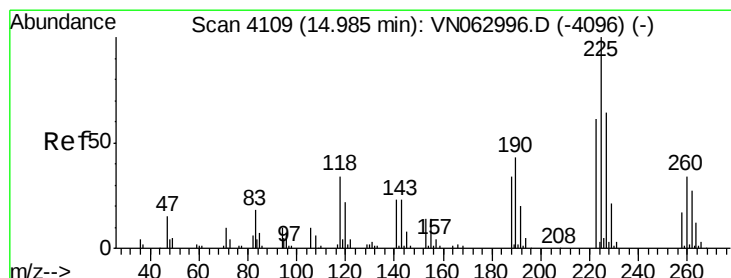
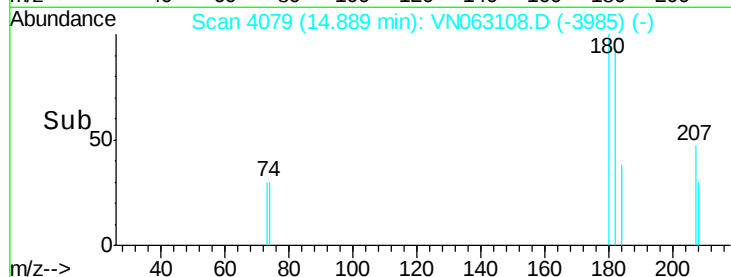
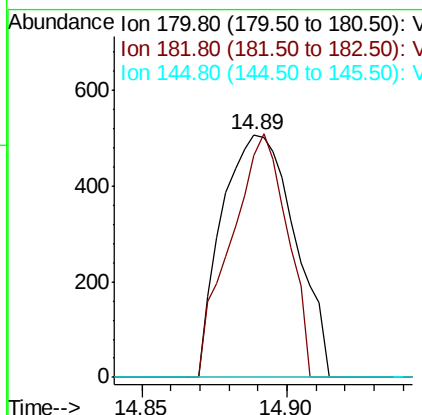
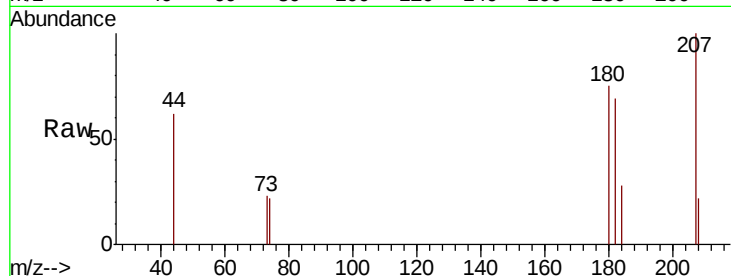




#93
 1,2,4-Trichlorobenzene
 Concen: 5.021 ug/l
 RT: 14.89 min Scan# 4079
 Delta R.T. 0.00 min
 Lab File: VN063108.D
 Acq: 25 Aug 2020 12:28

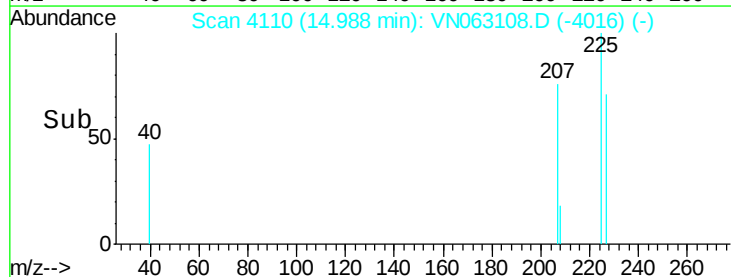
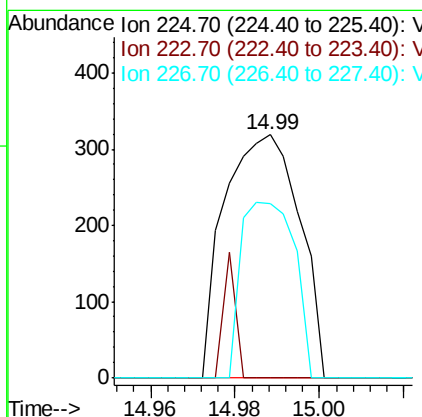
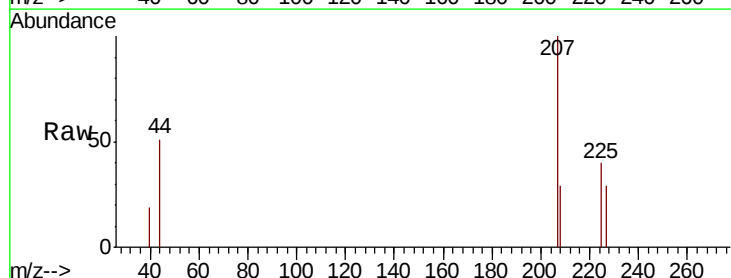
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB181-TB-20200819

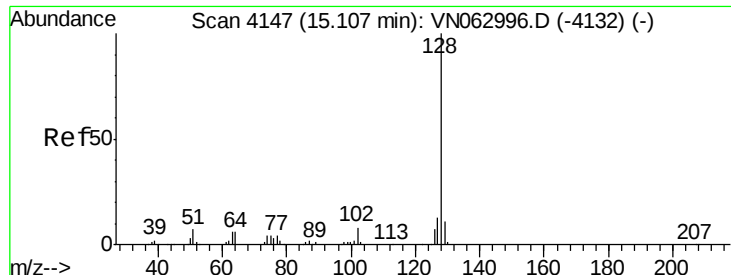
Tot Ion:180 Resp: 883
 Ion Ratio Lower Upper
 180 100
 182 77.7 47.0 141.2
 145 0.0 14.1 42.4#



#94
 Hexachlorobutadiene
 Concen: 0.350 ug/l
 RT: 14.99 min Scan# 4110
 Delta R.T. 0.00 min
 Lab File: VN063108.D
 Acq: 25 Aug 2020 12:28

Tgt Ion:225 Resp: 393
 Ion Ratio Lower Upper
 225 100
 223 8.1 30.9 92.5#
 227 51.7 31.9 95.9

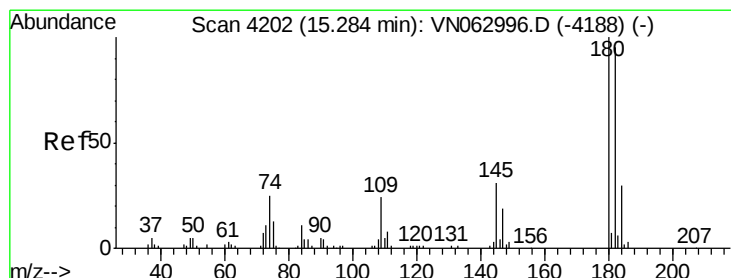
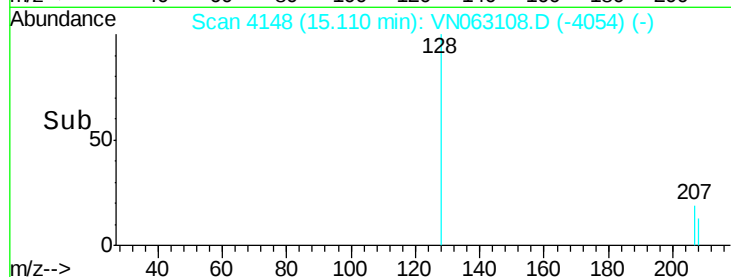
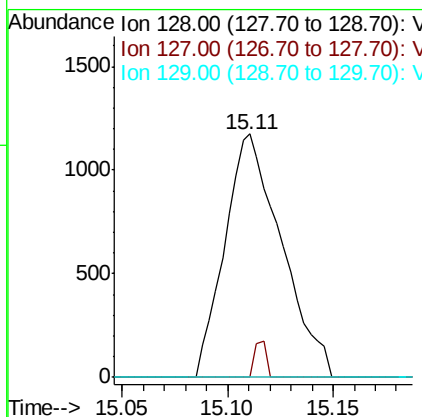
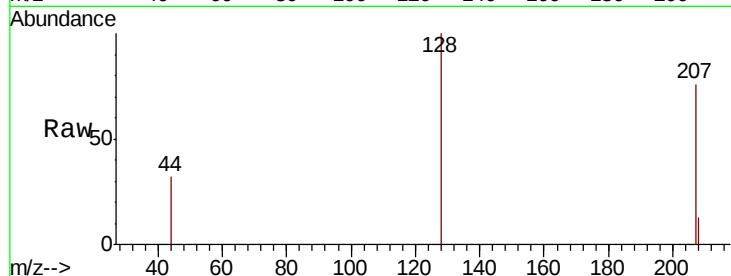




#95
Naphthalene
Concen: 6.143 ug/l
RT: 15.11 min Scan# 4148
Delta R.T. 0.00 min
Lab File: VN063108.D
Acq: 25 Aug 2020 12:28

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-TB-20200819

Tot Ion:128 Resp: 2189
Ion Ratio Lower Upper
128 100
127 3.0 10.6 16.0#
129 0.0 8.9 13.3#



#96
1,2,3-Trichlorobenzene
Concen: 4.496 ug/l
RT: 15.29 min Scan# 4205
Delta R.T. 0.01 min
Lab File: VN063108.D
Acq: 25 Aug 2020 12:28

Tgt Ion:180 Resp: 952
Ion Ratio Lower Upper
180 100
182 97.8 47.3 141.9
145 17.8 15.6 46.7

