

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082520\
 Data File : VN063109.D
 Acq On : 25 Aug 2020 12:52
 Operator : JC/MD
 Sample : L3783-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB181-EB-20200821

Quant Time: Aug 26 05:38:05 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	7.62	168	140805	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	235150	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	243399	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	97549	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	93088	55.78	ug/l	0.00
Spiked Amount			Recovery	=	111.56%	
35) Dibromofluoromethane	7.55	113	76532	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	
50) Toluene-d8	10.06	98	299988	50.97	ug/l	0.00
Spiked Amount			Recovery	=	101.94%	
62) 4-Bromofluorobenzene	12.38	95	105541	50.82	ug/l	0.00
Spiked Amount			Recovery	=	101.64%	

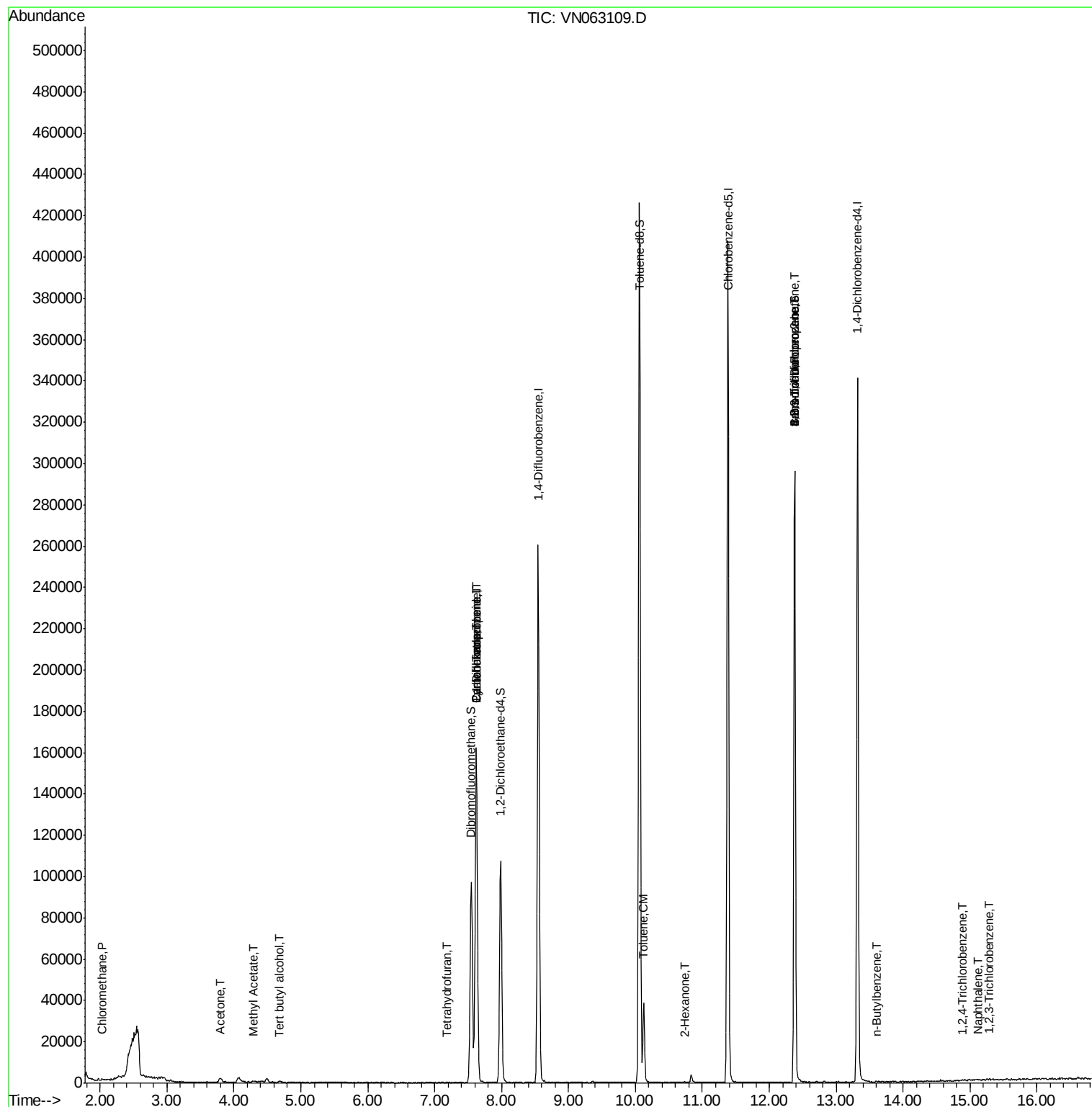
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	510	0.264	ug/l #	81
11) Tert butyl alcohol	4.67	59	264	1.117	ug/l #	74
16) Acetone	3.79	43	4332	4.472	ug/l	91
18) Methyl Acetate	4.28	43	479	0.289	ug/l #	52
20) Methylene Chloride	4.49	84	1675	Below Cal		88
29) Tetrahydrofuran	7.18	42	157	0.275	ug/l #	34
31) Cyclohexane	7.62	56	2545	1.035	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	9960	4.806	ug/l #	48
38) Carbon Tetrachloride	7.63	117	12367	5.911	ug/l #	17
52) Toluene	10.12	92	16785	4.234	ug/l	100
59) 2-Hexanone	10.75	43	297	0.209	ug/l #	23
71) Bromoform	12.38	173	1057	0.698	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	50639	26.706	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	50639	73.348	ug/l #	15
89) n-Butylbenzene	13.60	91	366	2.836	ug/l #	34
93) 1,2,4-Trichlorobenzene	14.89	180	62	4.578	ug/l #	1
95) Naphthalene	15.11	128	713	5.805	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.29	180	255	4.107	ug/l #	82

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VN063109.D

Acq: 25 Aug 2020 12:52

Instrument :

MSVOA_N

ClientSampleId :

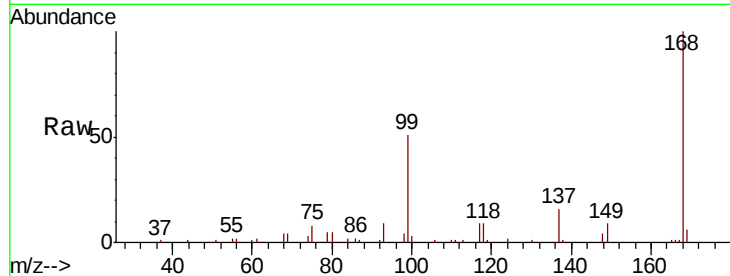
BP-VPB181-EB-20200821

Tot Ion:168 Resp: 140805

Ion Ratio Lower Upper

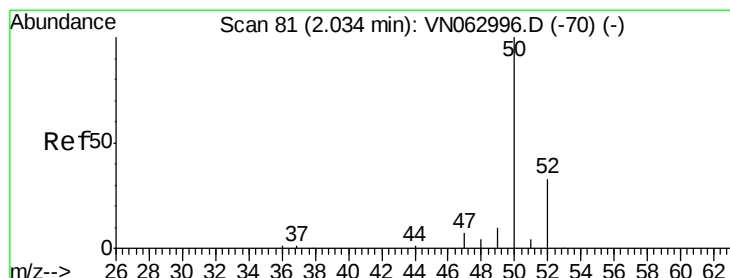
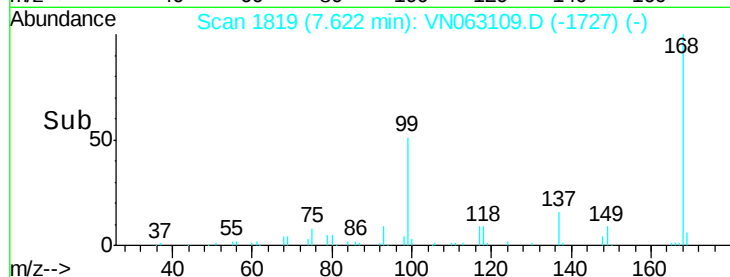
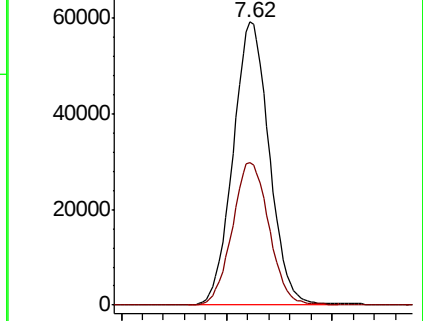
168 100

99 50.6 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: 0.264 ug/l

RT: 2.03 min Scan# 80

Delta R.T. -0.00 min

Lab File: VN063109.D

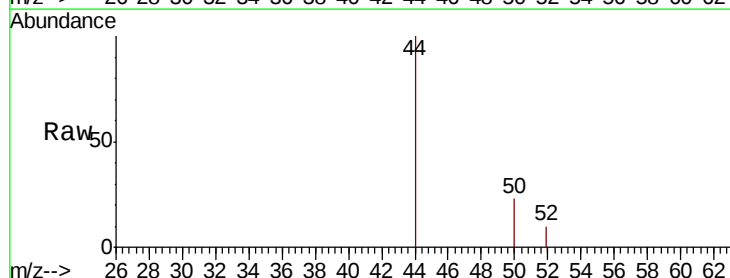
Acq: 25 Aug 2020 12:52

Tgt Ion: 50 Resp: 510

Ion Ratio Lower Upper

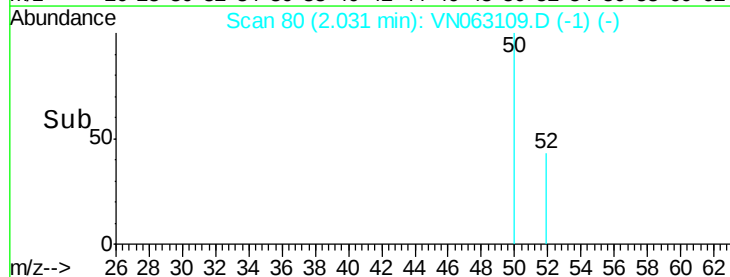
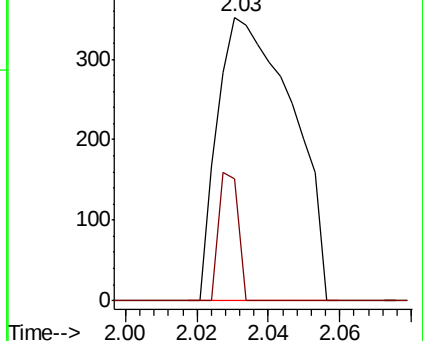
50 100

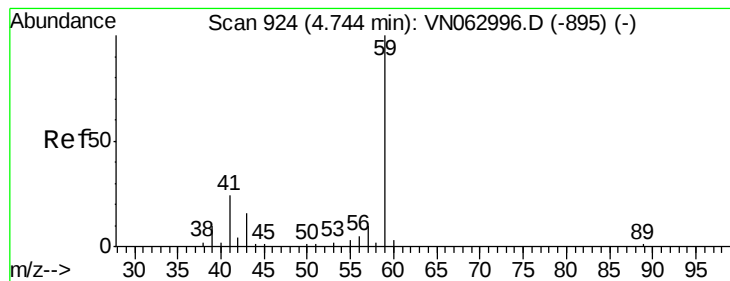
52 42.9 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0





#11

Tert butyl alcohol

Concen: 1.117 ug/l

RT: 4.67 min Scan# 902

Delta R.T. -0.07 min

Lab File: VN063109.D

Acq: 25 Aug 2020 12:52

Instrument :

MSVOA_N

ClientSampleId :

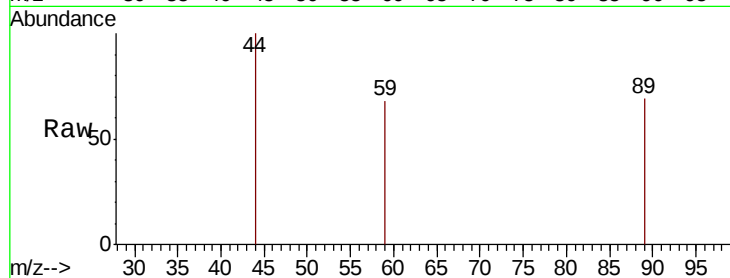
BP-VPB181-EB-20200821

Tot Ion: 59 Resp: 264

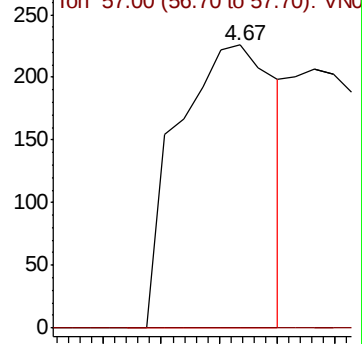
Ion Ratio Lower Upper

59 100

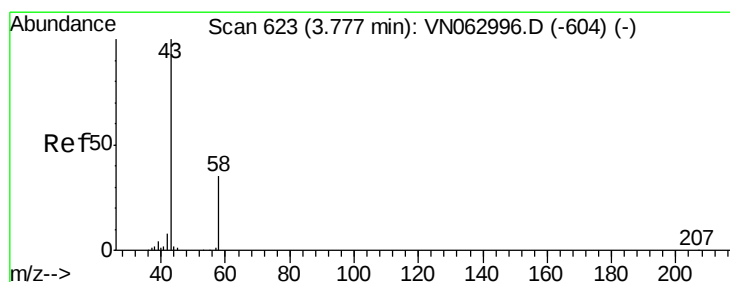
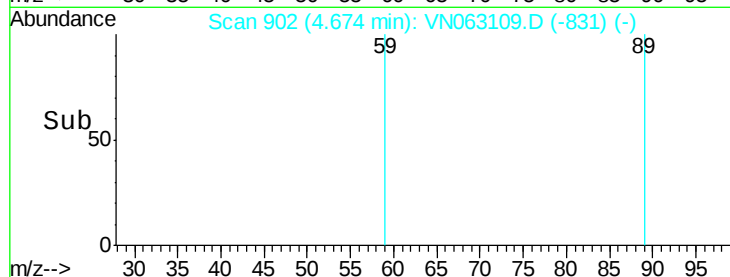
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN063109.D (-831) (-)



Time-->



#16

Acetone

Concen: 4.472 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN063109.D

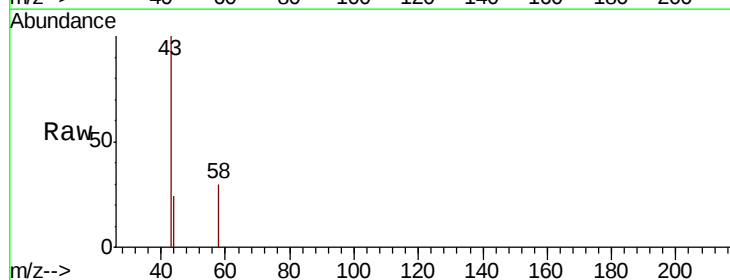
Acq: 25 Aug 2020 12:52

Tgt Ion: 43 Resp: 4332

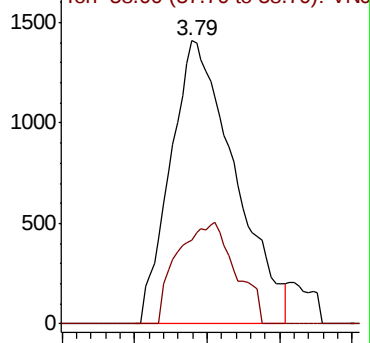
Ion Ratio Lower Upper

43 100

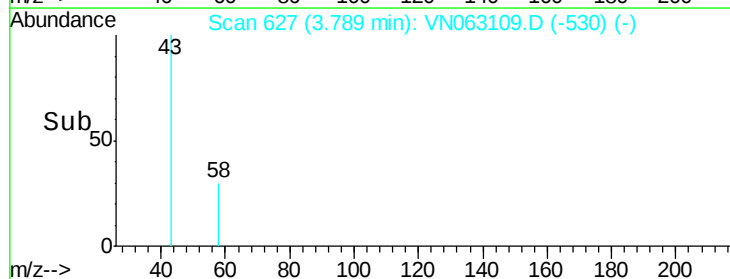
58 29.5 27.8 41.6

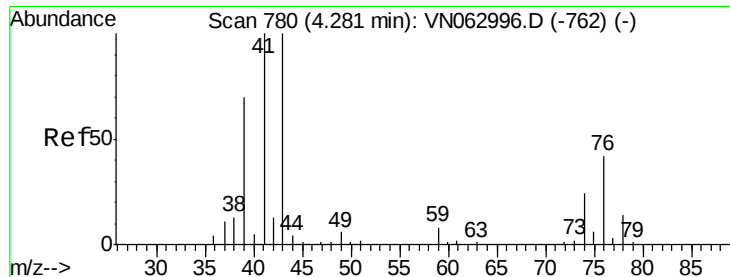


Abundance Ion 43.00 (42.70 to 43.70): VN063109.D (-530) (-)



Time-->

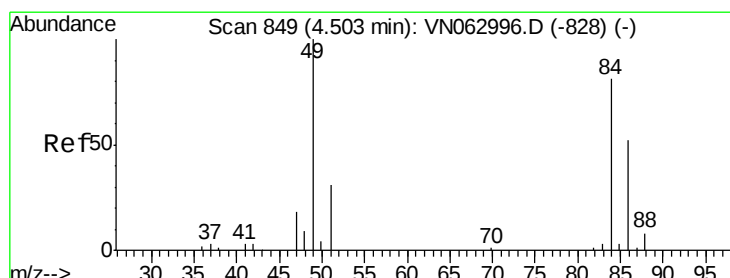
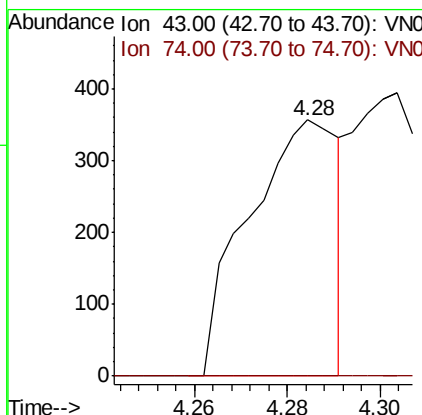
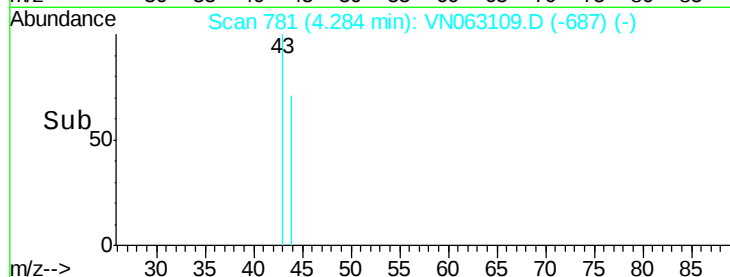
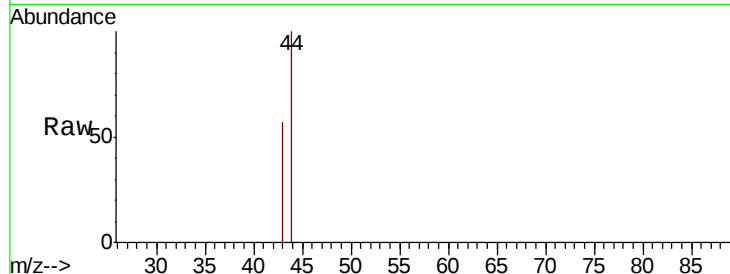




#18
Methyl Acetate
Concen: 0.289 ug/l
RT: 4.28 min Scan# 781
Delta R.T. 0.00 min
Lab File: VN063109.D
Acq: 25 Aug 2020 12:52

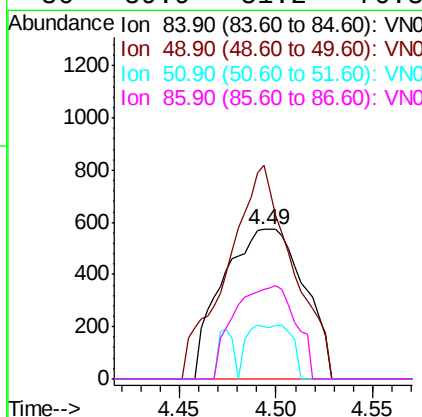
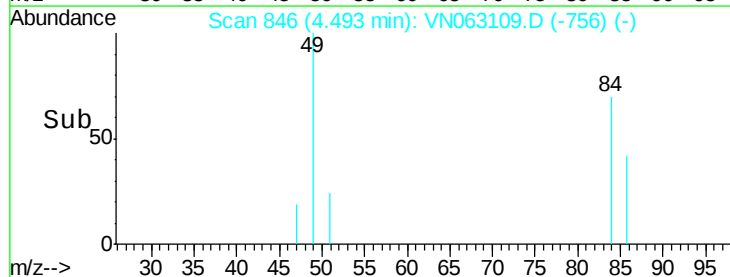
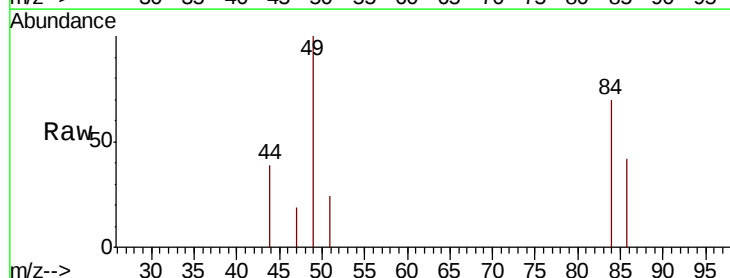
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-EB-20200821

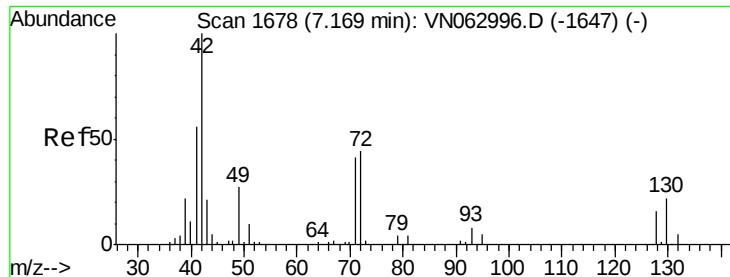
Tot Ion: 43 Resp: 479
Ion Ratio Lower Upper
43 100
74 0.0 18.6 28.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.49 min Scan# 846
Delta R.T. -0.01 min
Lab File: VN063109.D
Acq: 25 Aug 2020 12:52

Tgt Ion: 84 Resp: 1675
Ion Ratio Lower Upper
84 100
49 142.9 98.7 148.1
51 34.7 30.8 46.2
86 59.9 51.2 76.8





#29

Tetrahydrofuran

Concen: 0.275 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.01 min

Lab File: VN063109.D

Acq: 25 Aug 2020 12:52

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-EB-20200821

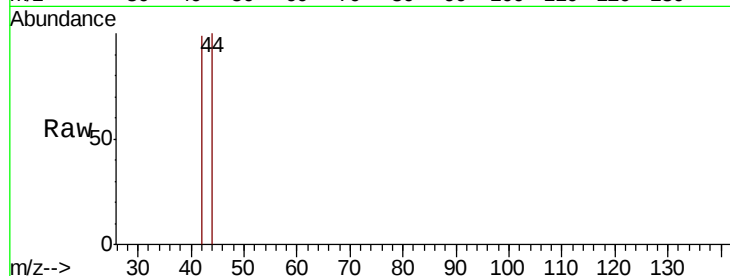
Tot Ion: 42 Resp: 157

Ion Ratio Lower Upper

42 100

72 0.0 34.6 52.0#

71 0.0 32.3 48.5#



Abundance Ion 42.00 (41.70 to 42.70): VN062996.D (-1647) (-)

Ion 72.00 (71.70 to 72.70): VN062996.D (-1647) (-)

Ion 71.00 (70.70 to 71.70): VN062996.D (-1647) (-)

7.18

250

200

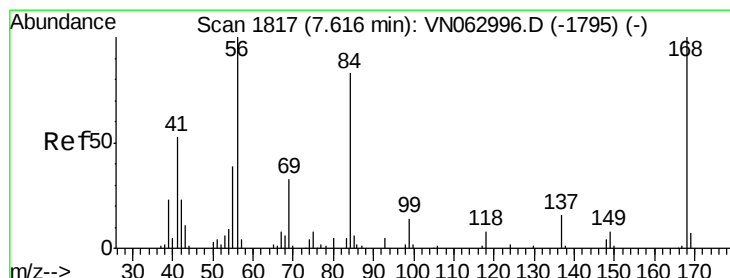
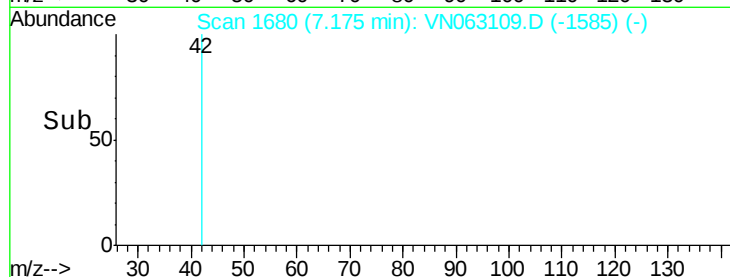
150

100

50

0

Time-->



#31

Cyclohexane

Concen: 1.035 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN063109.D

Acq: 25 Aug 2020 12:52

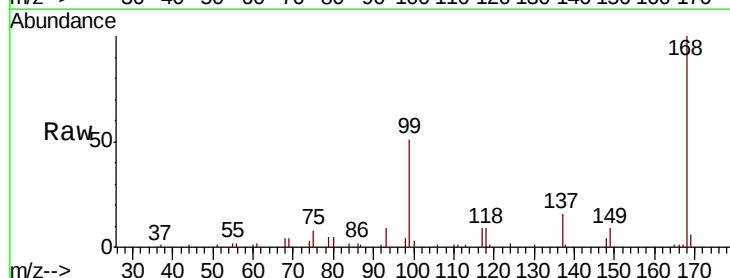
Tgt Ion: 56 Resp: 2545

Ion Ratio Lower Upper

56 100

69 186.4 26.6 40.0#

84 127.6 66.4 99.6#



Abundance Ion 56.00 (55.70 to 56.70): VN062996.D (-1795) (-)

Ion 69.00 (68.70 to 69.70): VN062996.D (-1795) (-)

Ion 84.00 (83.70 to 84.70): VN062996.D (-1795) (-)

7.62

2500

2000

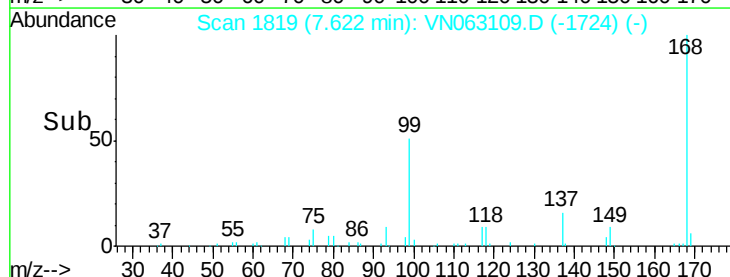
1500

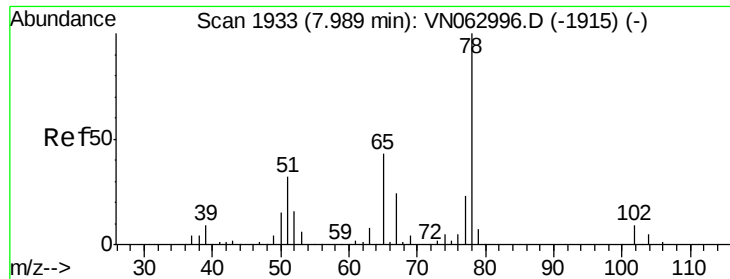
1000

500

0

Time-->

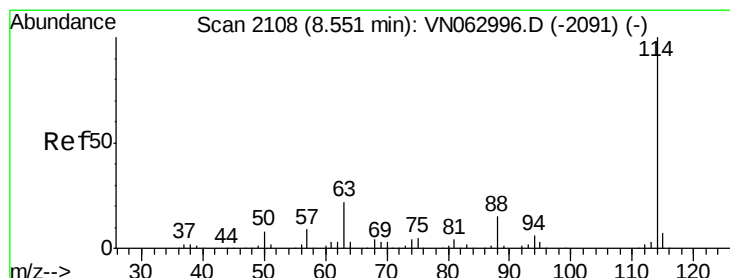
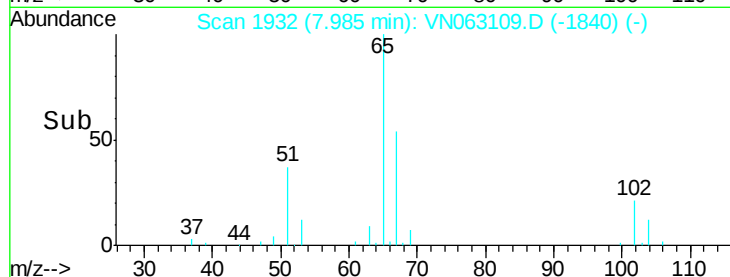
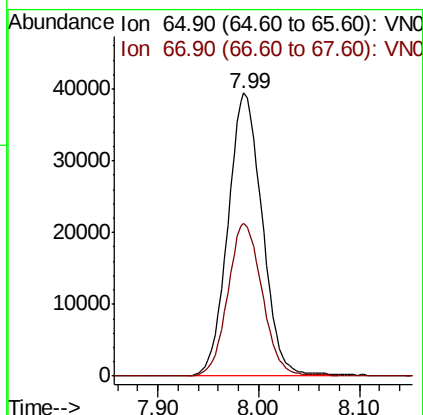
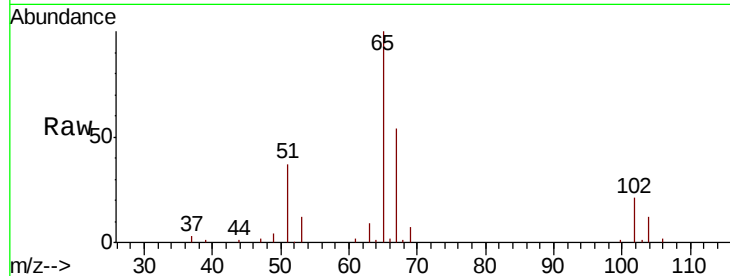




#33
 1,2-Dichloroethane-d4
 Concen: 55.781 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN063109.D
 Acq: 25 Aug 2020 12:52

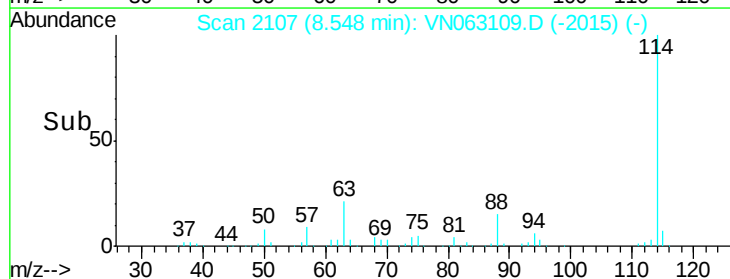
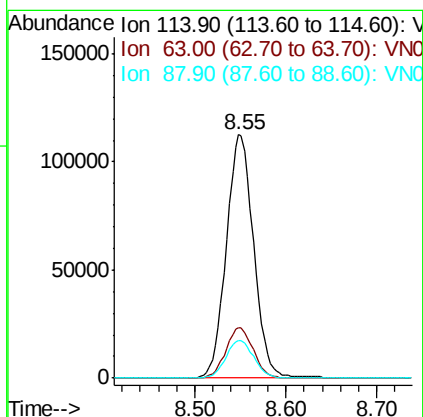
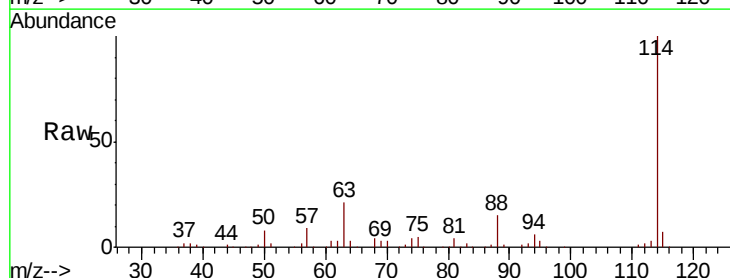
Instrument :
 MSVOA_N
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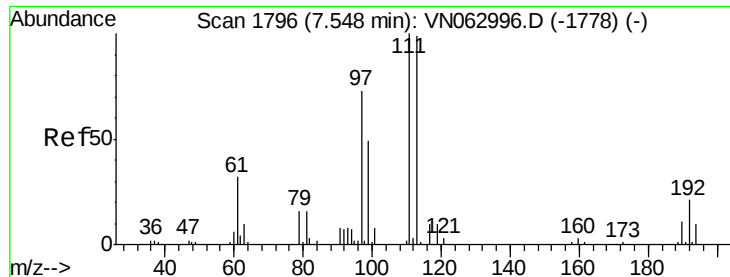
Tot Ion: 65 Resp: 93088
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2107
 Delta R.T. -0.00 min
 Lab File: VN063109.D
 Acq: 25 Aug 2020 12:52

Tgt Ion: 114 Resp: 235150
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 43.2
 88 15.5 0.0 30.6

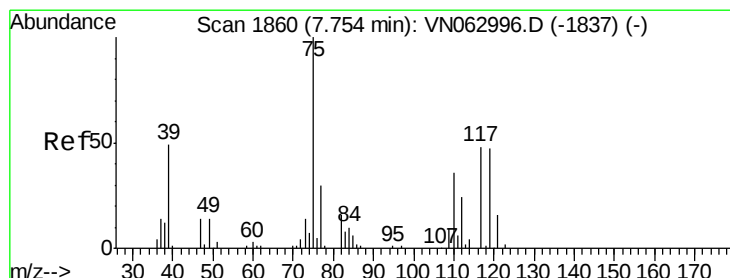
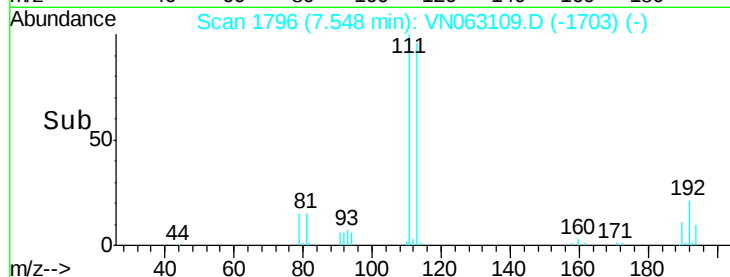
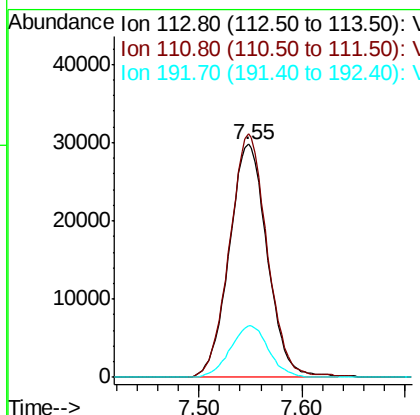
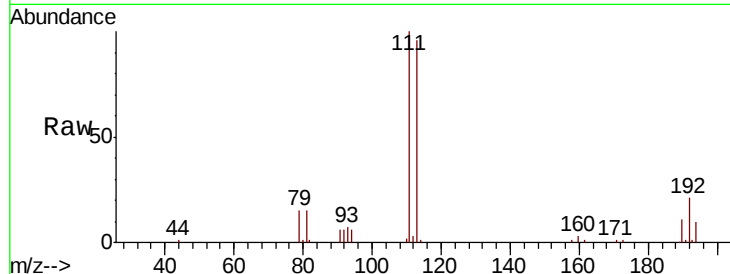




#35
 Dibromofluoromethane
 Concen: 49.948 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN063109.D
 Acq: 25 Aug 2020 12:52

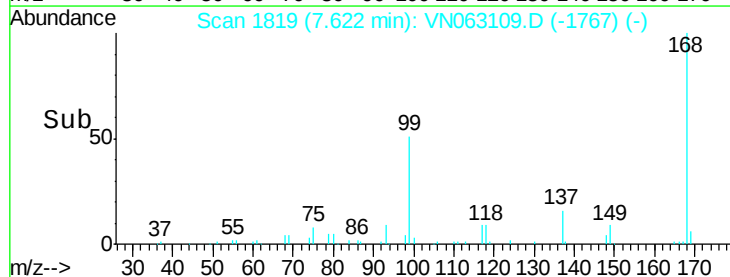
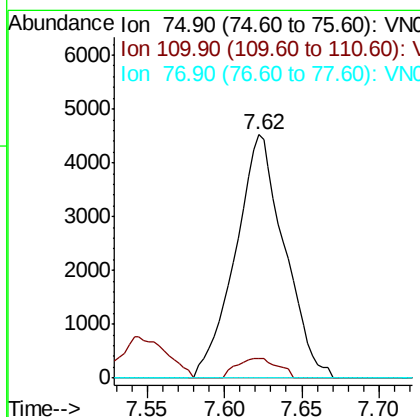
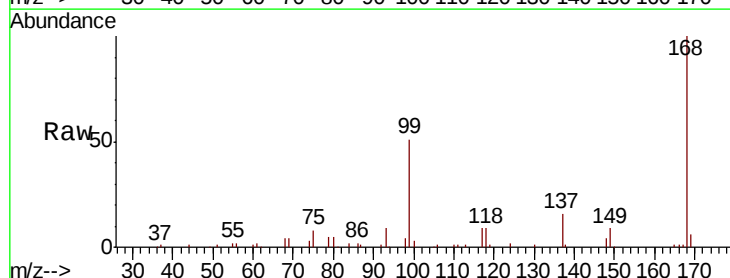
Instrument :
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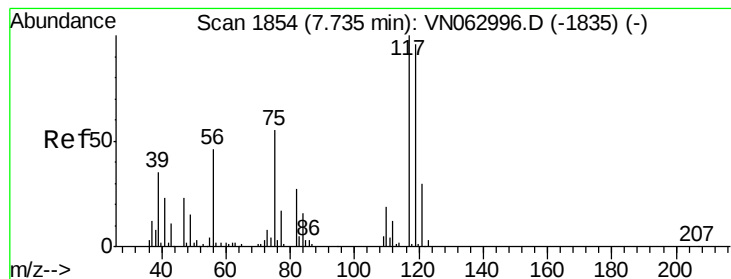
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	81.7	122.5
192	22.2	17.5	26.3



#36
 1,1-Dichloropropene
 Concen: 4.806 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN063109.D
 Acq: 25 Aug 2020 12:52

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.8	17.5	52.6#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 5.911 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN063109.D

Acq: 25 Aug 2020 12:52

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-EB-20200821

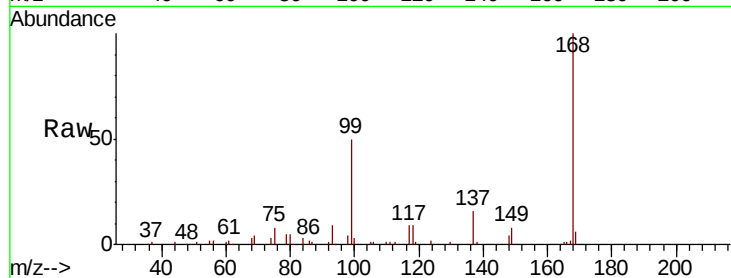
Tot Ion:117 Resp: 12367

Ion Ratio Lower Upper

117 100

119 6.7 76.2 114.4#

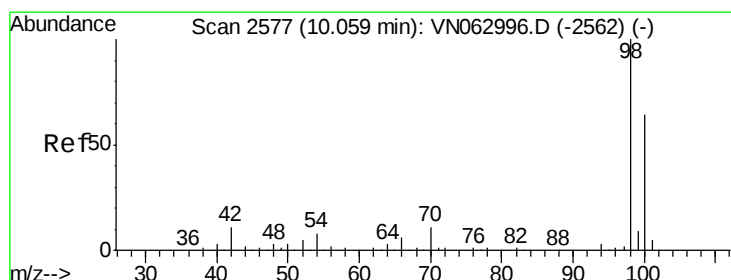
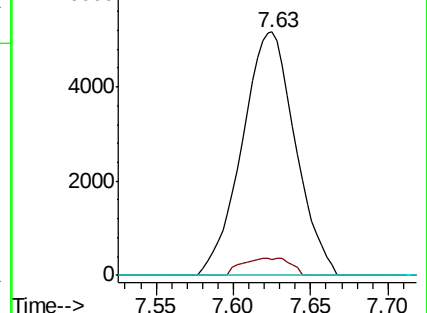
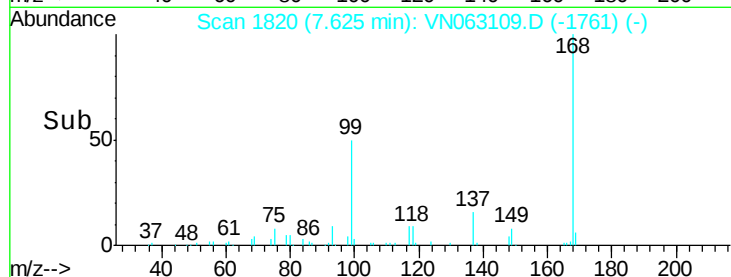
121 0.0 24.2 36.2#



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



#50

Toluene-d8

Concen: 50.972 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN063109.D

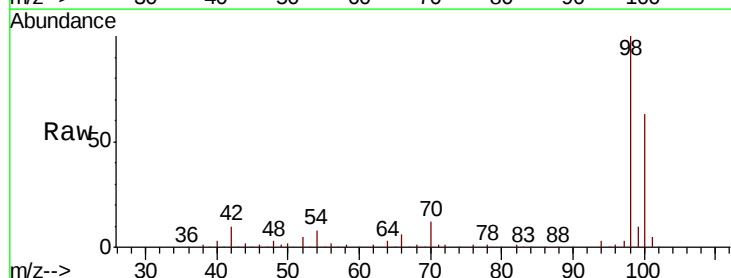
Acq: 25 Aug 2020 12:52

Tgt Ion: 98 Resp: 299988

Ion Ratio Lower Upper

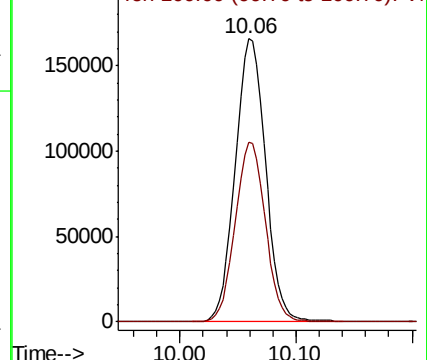
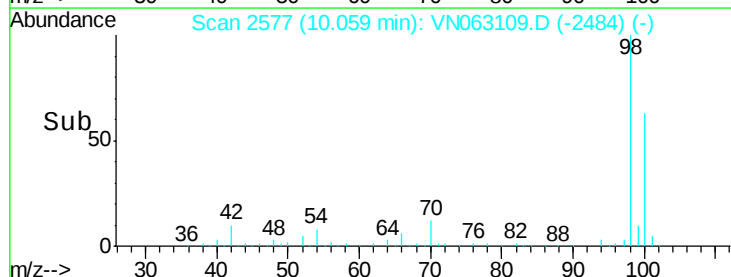
98 100

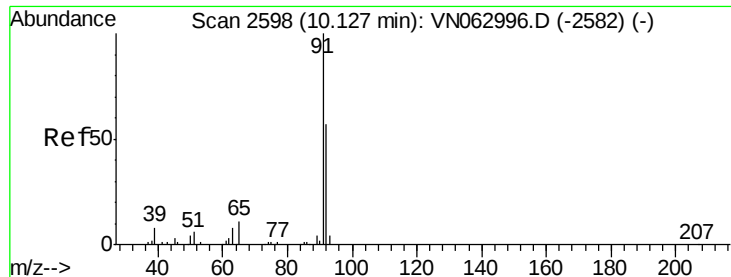
100 63.0 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN





#52

Toluene

Concen: 4.234 ug/l

RT: 10.12 min Scan# 2597

Delta R.T. -0.00 min

Lab File: VN063109.D

Acq: 25 Aug 2020 12:52

Instrument :

MSVOA_N

ClientSampleId :

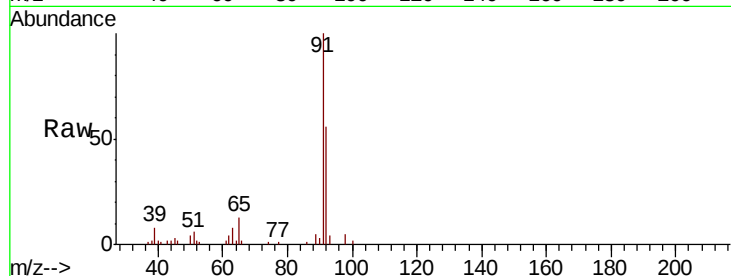
BP-VPB181-EB-20200821

Tot Ion: 92 Resp: 16785

Ion Ratio Lower Upper

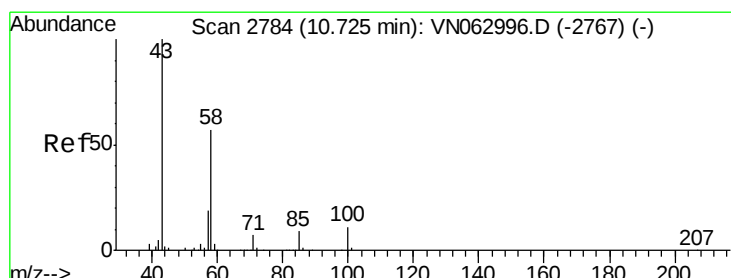
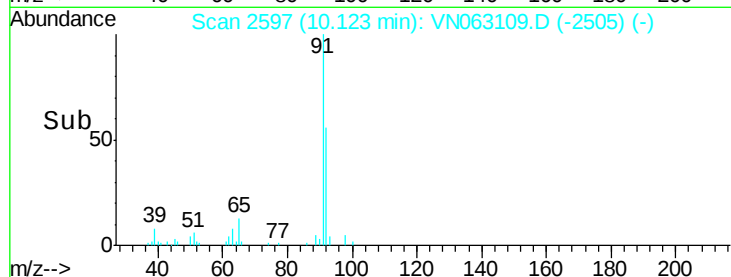
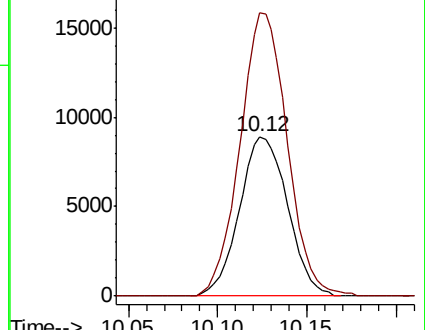
92 100

91 174.2 139.2 208.8



Abundance Ion 92.00 (91.70 to 92.70): VN062996.D (-2582) (-)

Ion 91.00 (90.70 to 91.70): VN062996.D (-2582) (-)



#59

2-Hexanone

Concen: 0.209 ug/l

RT: 10.75 min Scan# 2791

Delta R.T. 0.02 min

Lab File: VN063109.D

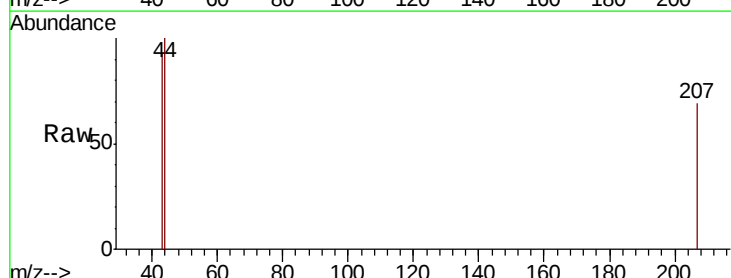
Acq: 25 Aug 2020 12:52

Tgt Ion: 43 Resp: 297

Ion Ratio Lower Upper

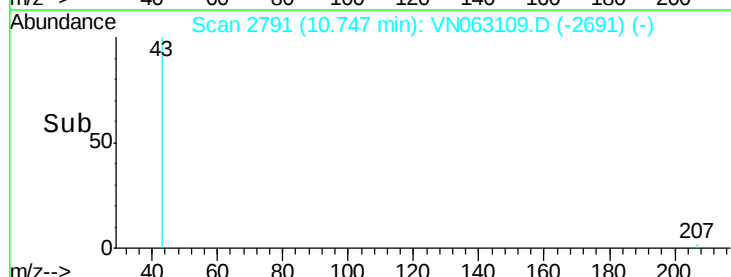
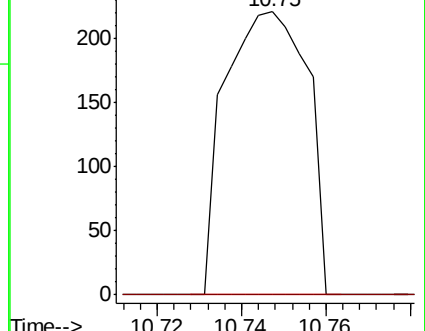
43 100

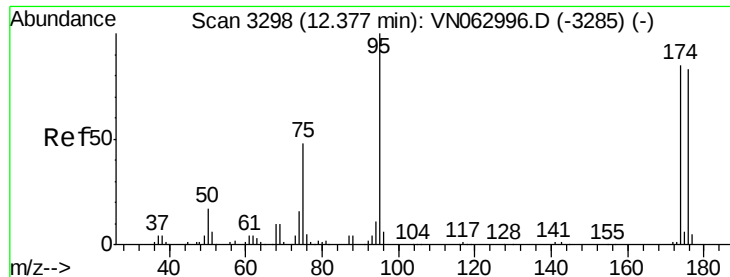
58 0.0 28.1 84.3#



Abundance Ion 43.00 (42.70 to 43.70): VN062996.D (-2767) (-)

Ion 58.00 (57.70 to 58.70): VN062996.D (-2767) (-)





#62

4-Bromofluorobenzene

Concen: 50.818 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.00 min

Lab File: VN063109.D

Acq: 25 Aug 2020 12:52

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-EB-20200821

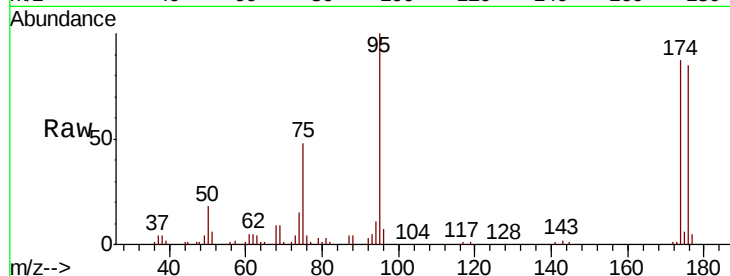
Tot Ion: 95 Resp: 105541

Ion Ratio Lower Upper

95 100

174 86.7 0.0 170.8

176 83.2 0.0 164.8

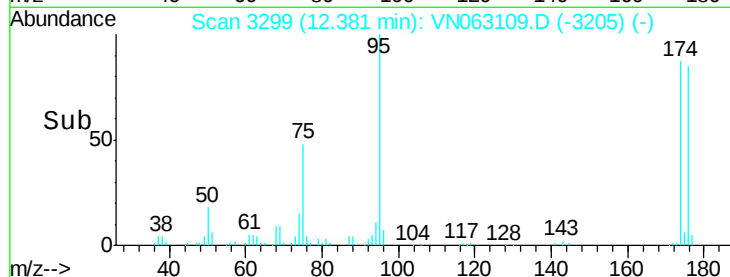


Abundance Ion 94.90 (94.60 to 95.60): VN062996.D (-3285) (-)

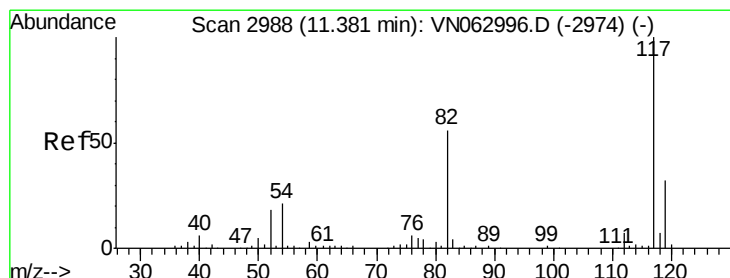
Ion 173.80 (173.50 to 174.50): VN062996.D (-3285) (-)

Ion 175.80 (175.50 to 176.50): VN062996.D (-3285) (-)

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN063109.D

Acq: 25 Aug 2020 12:52

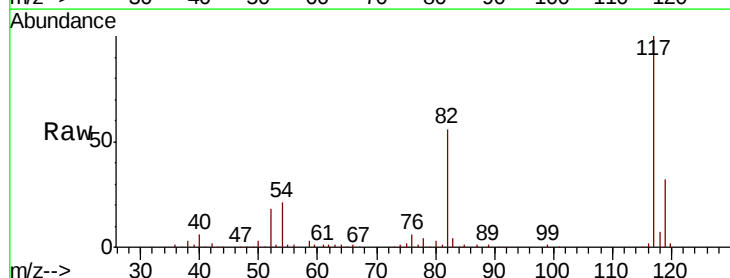
Tgt Ion: 117 Resp: 243399

Ion Ratio Lower Upper

117 100

82 55.7 44.5 66.7

119 32.3 25.5 38.3

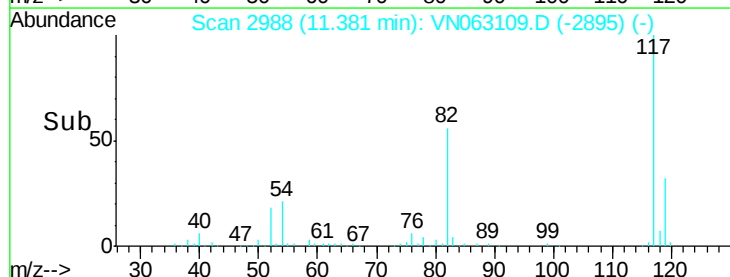


Abundance Ion 116.90 (116.60 to 117.60): VN062996.D (-2974) (-)

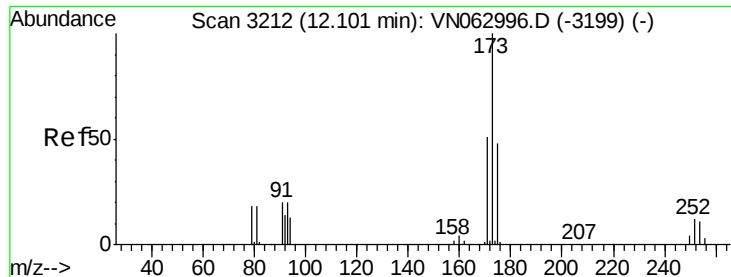
Ion 82.00 (81.70 to 82.70): VN062996.D (-2974) (-)

Ion 118.90 (118.60 to 119.60): VN062996.D (-2974) (-)

Time-->



Time-->



#71

Bromoform

Concen: 0.698 ug/l

RT: 12.38 min Scan# 3299

Delta R.T. 0.28 min

Lab File: VN063109.D

Acq: 25 Aug 2020 12:52

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-EB-20200821

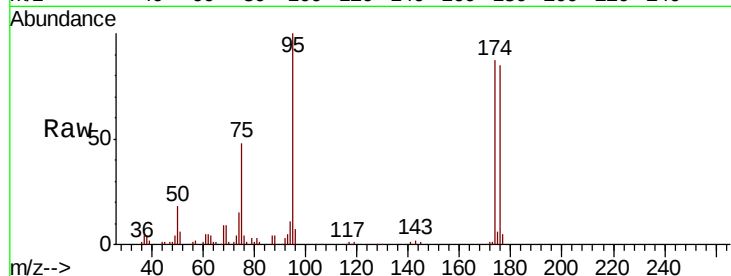
Tot Ion:173 Resp: 1057

Ion Ratio Lower Upper

173 100

175 499.7 24.3 72.8#

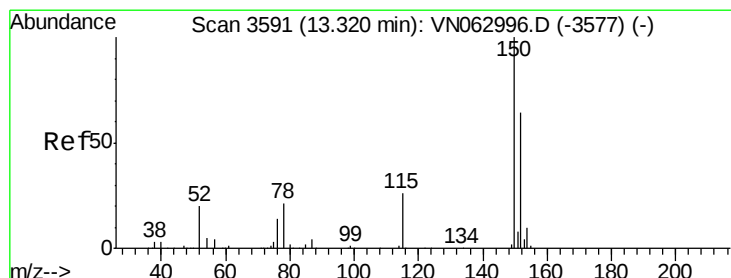
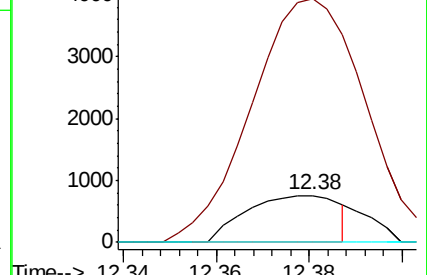
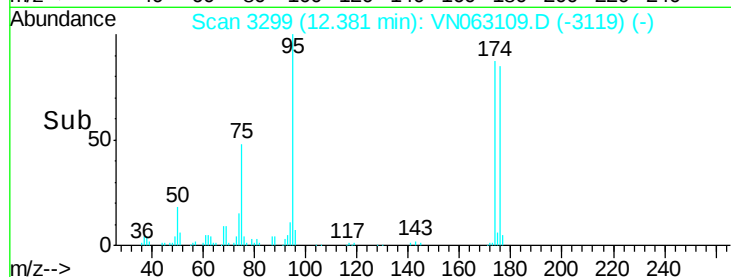
254 0.0 0.0 0.0



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# 3591

Delta R.T. -0.00 min

Lab File: VN063109.D

Acq: 25 Aug 2020 12:52

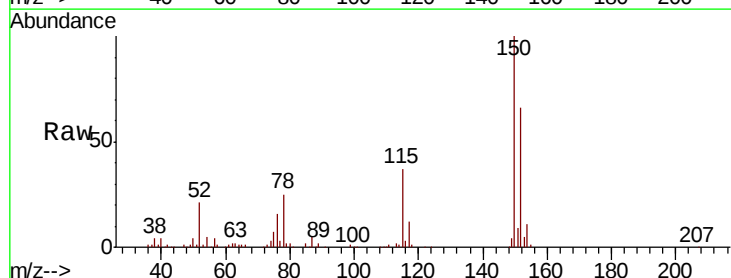
Tgt Ion:152 Resp: 97549

Ion Ratio Lower Upper

152 100

115 57.0 28.7 86.3

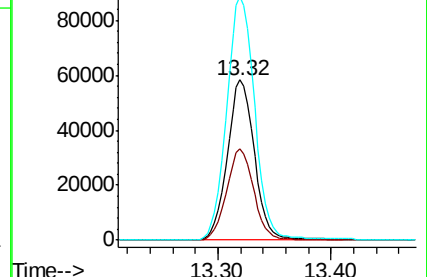
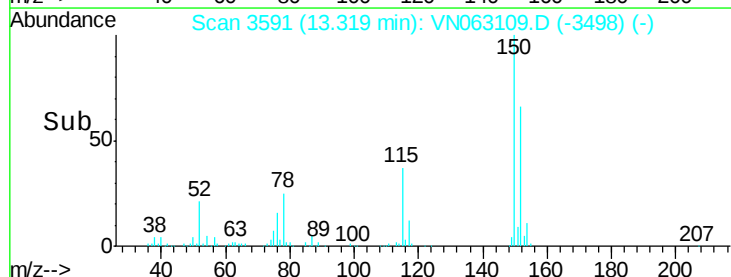
150 158.0 0.0 348.8

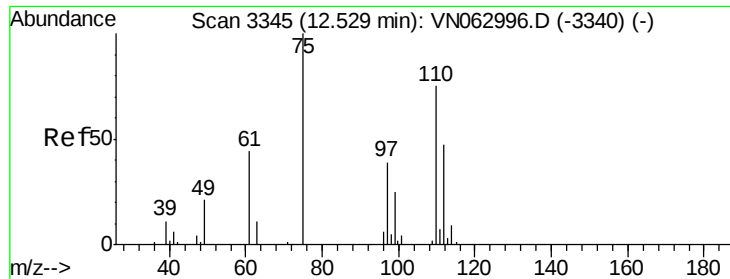


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

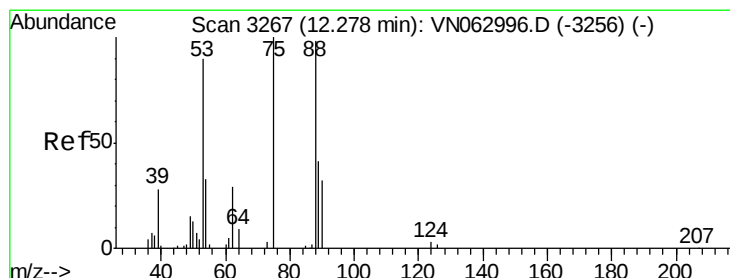
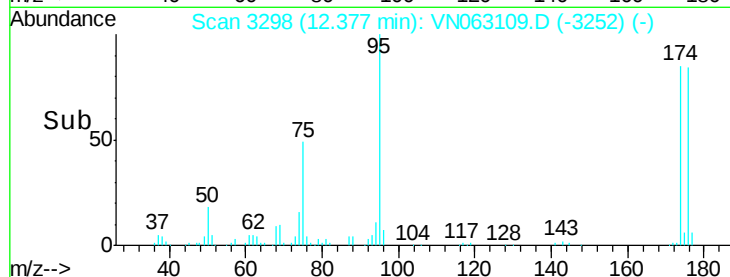
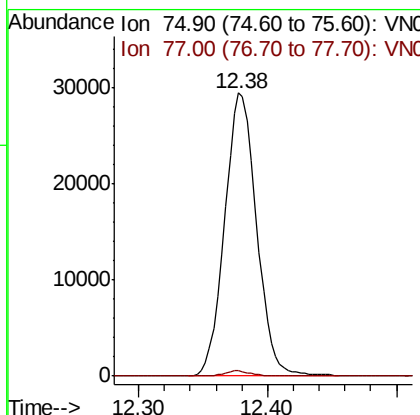
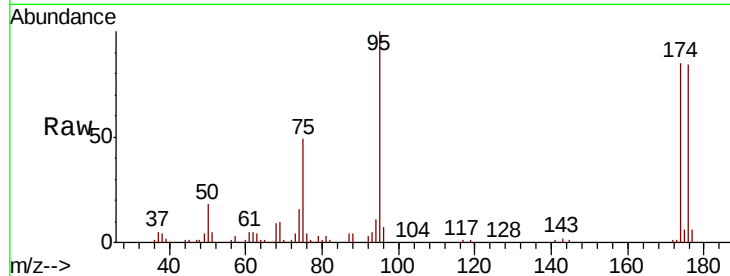




#76
 1,2,3-Trichloropropane
 Concen: 26.706 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN063109.D
 Acq: 25 Aug 2020 12:52

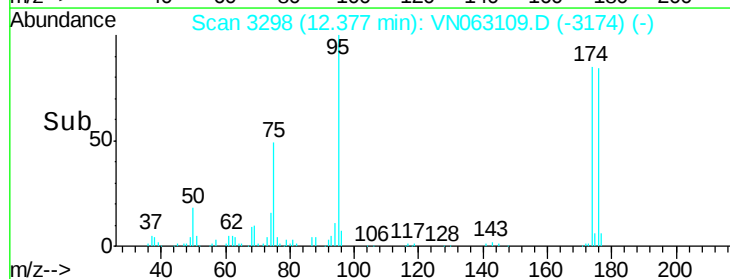
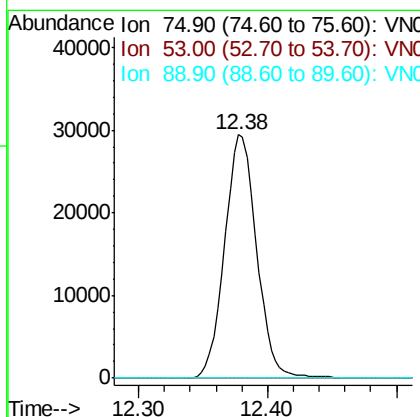
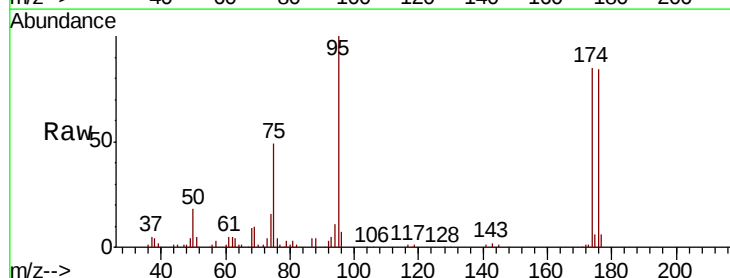
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB181-EB-20200821

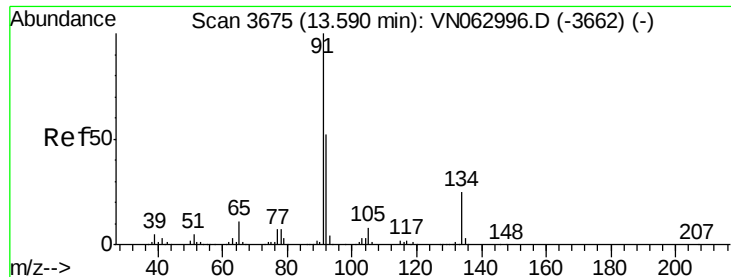
Tot Ion: 75 Resp: 50639
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.348 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN063109.D
 Acq: 25 Aug 2020 12:52

Tgt Ion: 75 Resp: 50639
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.2 103.8#
 89 0.0 34.2 51.4#

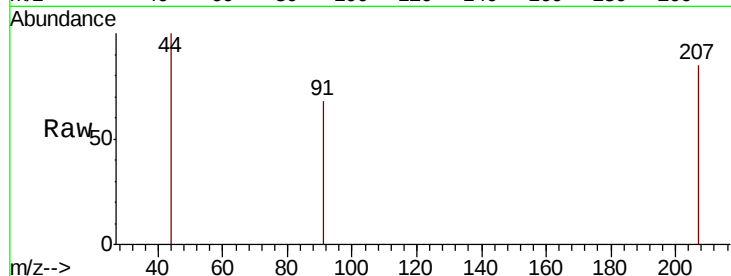




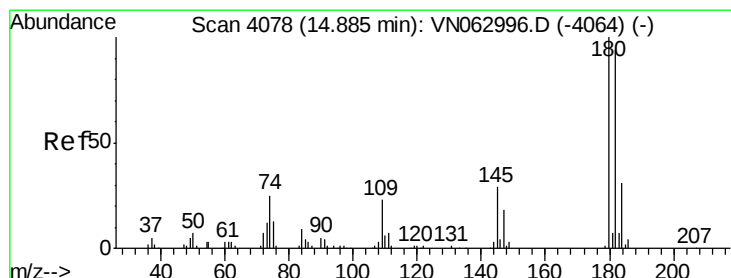
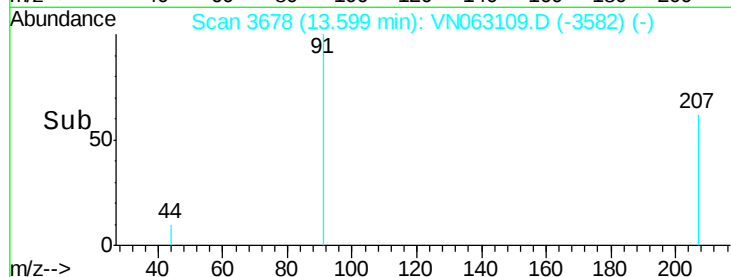
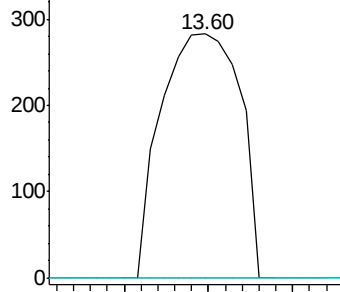
#89
n-Butylbenzene
Concen: 2.836 ug/l
RT: 13.60 min Scan# 3678
Delta R.T. 0.01 min
Lab File: VN063109.D
Acq: 25 Aug 2020 12:52

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-EB-20200821

Tot Ion: 91 Resp: 366
Ion Ratio Lower Upper
91 100
92 0.0 25.9 77.6#
134 0.0 12.4 37.0#

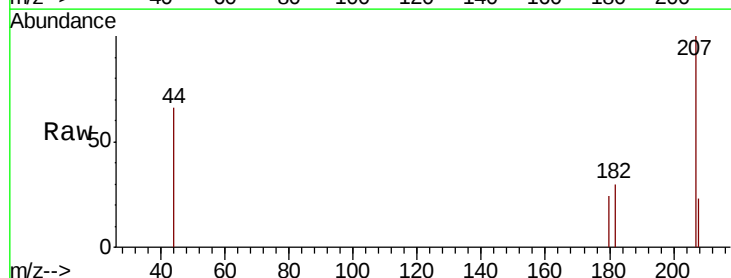


Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 92.00 (91.70 to 92.70): VN0
Ion 134.00 (133.70 to 134.70): VN0

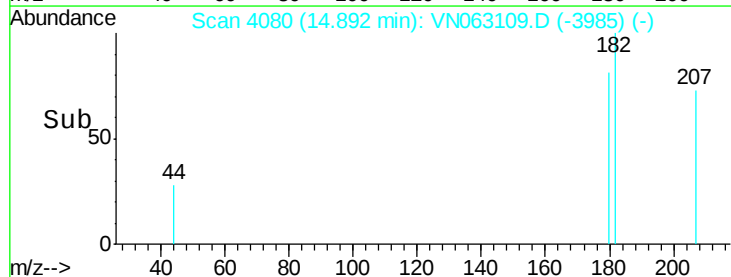
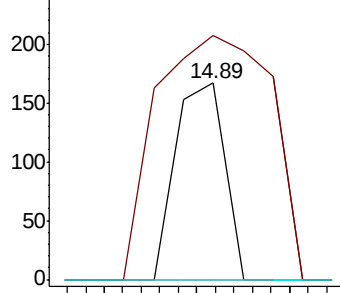


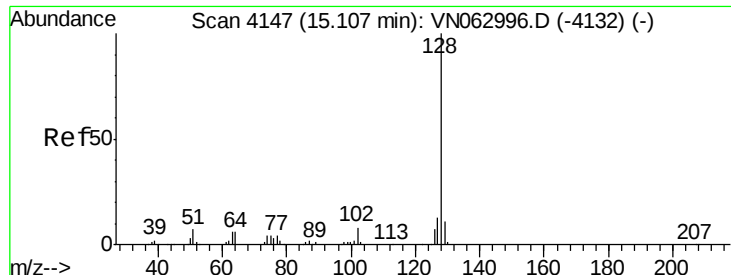
#93
1,2,4-Trichlorobenzene
Concen: 4.578 ug/l
RT: 14.89 min Scan# 4080
Delta R.T. 0.01 min
Lab File: VN063109.D
Acq: 25 Aug 2020 12:52

Tgt Ion: 180 Resp: 62
Ion Ratio Lower Upper
180 100
182 287.1 47.0 141.2#
145 0.0 14.1 42.4#



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

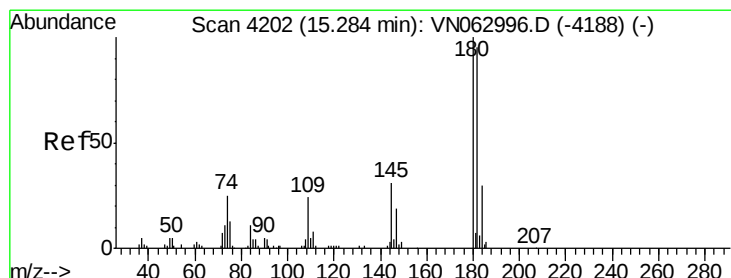
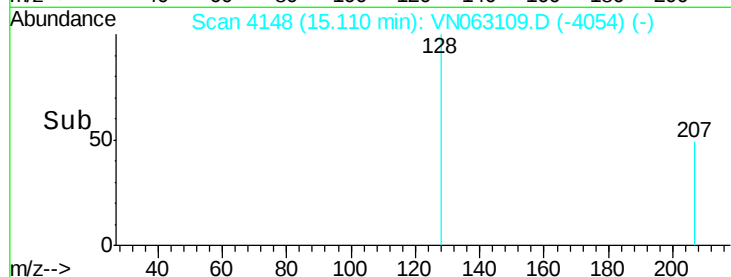
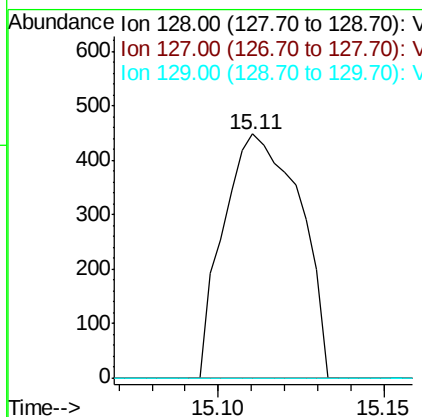
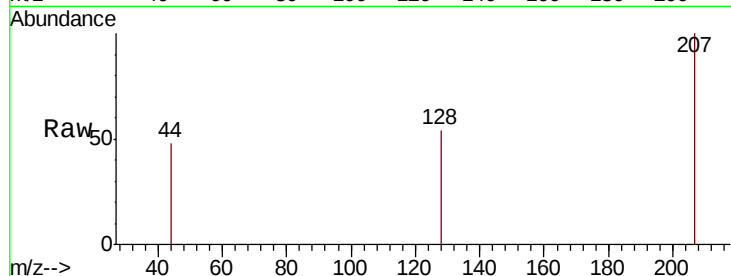




#95
Naphthalene
Concen: 5.805 ug/l
RT: 15.11 min Scan# 4148
Delta R.T. 0.00 min
Lab File: VN063109.D
Acq: 25 Aug 2020 12:52

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-EB-20200821

Tot Ion:128 Resp: 713
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 0.0 8.9 13.3#



#96
1,2,3-Trichlorobenzene
Concen: 4.107 ug/l
RT: 15.29 min Scan# 4205
Delta R.T. 0.01 min
Lab File: VN063109.D
Acq: 25 Aug 2020 12:52

Tgt Ion:180 Resp: 255
Ion Ratio Lower Upper
180 100
182 89.0 47.3 141.9
145 0.0 15.6 46.7#

