

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090220\
 Data File : VN063199.D
 Acq On : 2 Sep 2020 16:41
 Operator : JC/MD
 Sample : L3889-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB181-GW-823-825

Quant Time: Sep 03 01:01:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N083120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 01 04:21:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	307199	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	601584	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	587294	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	223994	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	248105	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
35) Dibromofluoromethane	7.55	113	189198	49.02	ug/l	0.00
Spiked Amount			Recovery	=	98.04%	
50) Toluene-d8	10.06	98	763873	51.42	ug/l	0.00
Spiked Amount			Recovery	=	102.84%	
62) 4-Bromofluorobenzene	12.38	95	260274	50.09	ug/l	0.00
Spiked Amount			Recovery	=	100.18%	

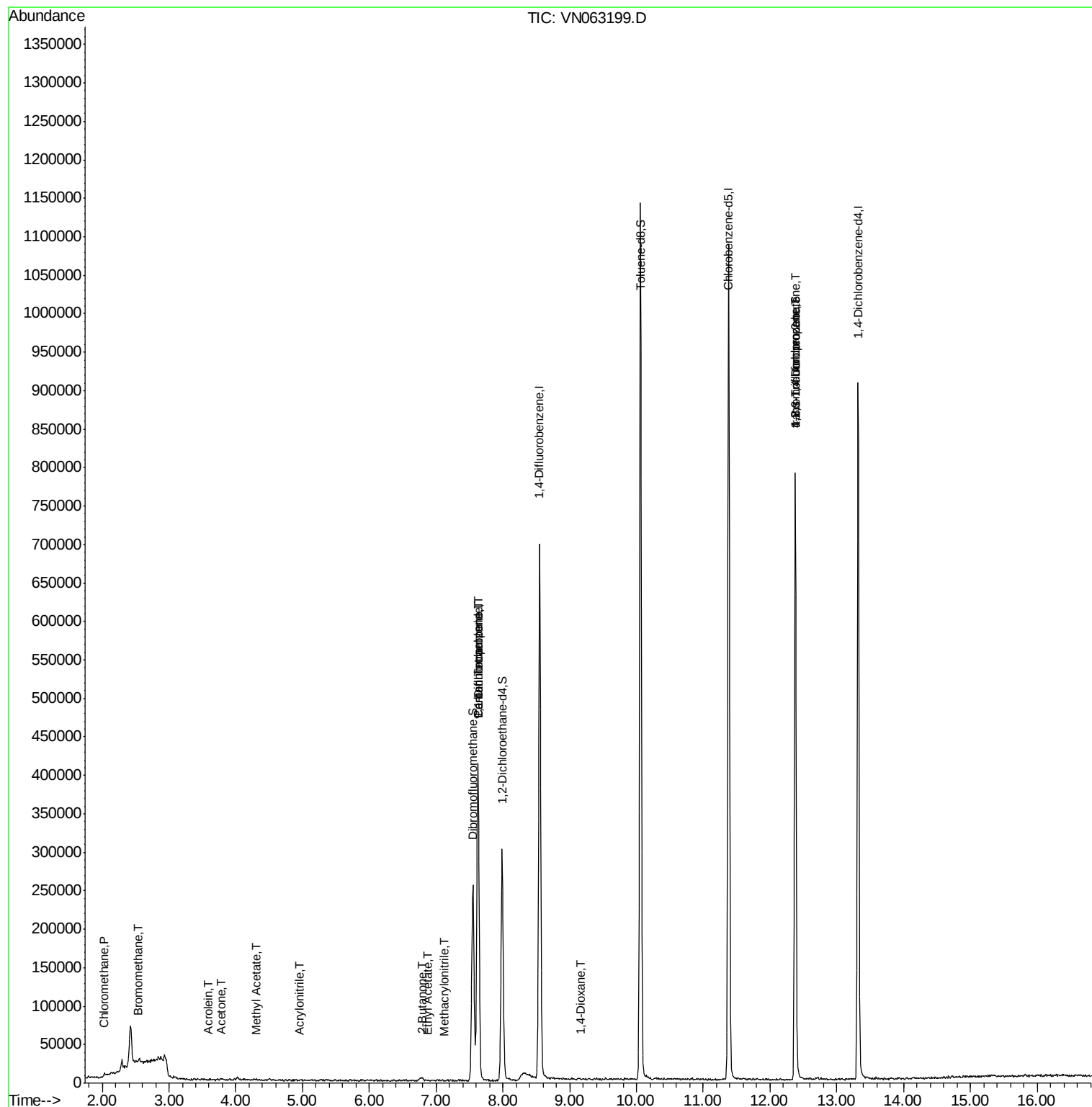
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1897	0.431	ug/l #	61
5) Bromomethane	2.54	94	1516	0.370	ug/l #	44
7) Trichlorofluoromethane	2.99	101	111	Below Cal	#	19
13) Acrolein	3.59	56	60	16.009	ug/l #	1
15) Acrylonitrile	4.95	53	75	2.447	ug/l #	1
16) Acetone	3.78	43	1689	1.183	ug/l #	85
18) Methyl Acetate	4.29	43	1093	0.299	ug/l	95
20) Methylene Chloride	4.51	84	576	Below Cal	#	58
25) 2-Butanone	6.80	43	734	0.332	ug/l #	50
31) Cyclohexane	7.63	56	8906	Below Cal	#	18
36) 1,1-Dichloropropene	7.63	75	27939	4.831	ug/l #	50
37) Ethyl Acetate	6.88	43	210	0.418	ug/l #	72
38) Carbon Tetrachloride	7.62	117	34503	5.883	ug/l #	15
41) Methacrylonitrile	7.12	41	572	0.235	ug/l #	43
49) 1,4-Dioxane	9.17	88	74	1.125	ug/l #	24
76) 1,2,3-Trichloropropane	12.38	75	145657	33.096	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	145657	79.993	ug/l #	10

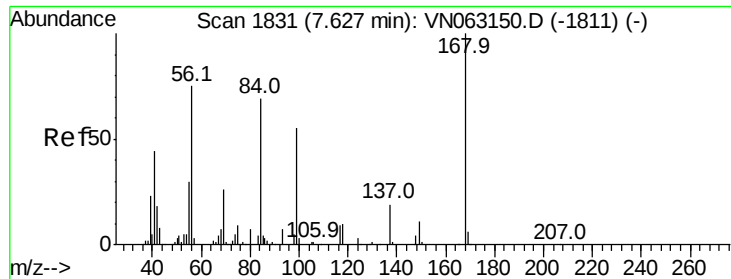
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063199.D

Acq: 2 Sep 2020 16:41

Instrument :

MSVOA_N

ClientSampleId :

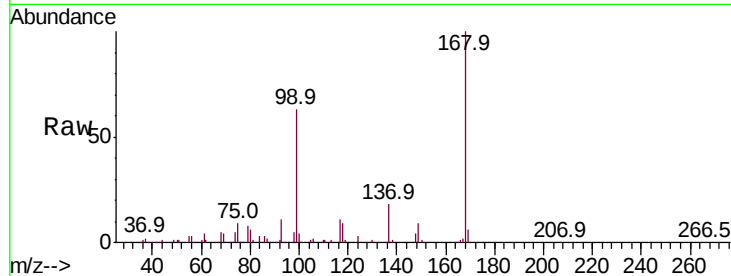
BP-VPB181-GW-823-825

Tot Ion:168 Resp: 307199

Ion Ratio Lower Upper

168 100

99 62.8 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): VN063199.D (-1738) (-)

Ion 98.90 (98.60 to 99.60): VN063199.D (-1738) (-)

7.63

150000

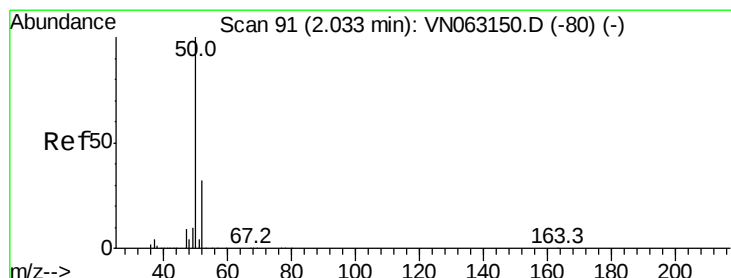
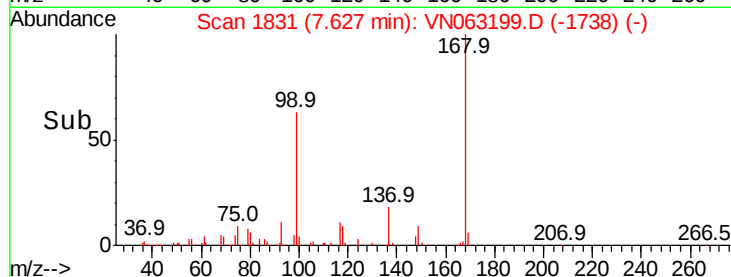
100000

50000

0

7.50 7.60 7.70

Time-->



#3

Chloromethane

Concen: 0.431 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063199.D

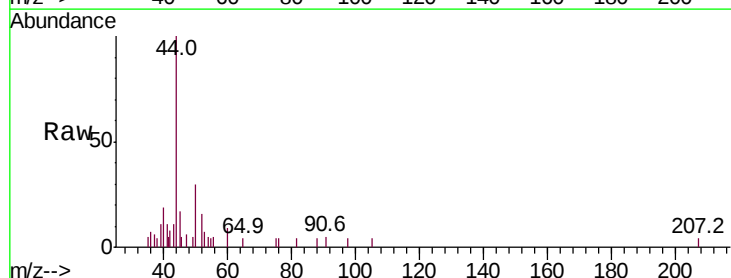
Acq: 2 Sep 2020 16:41

Tgt Ion: 50 Resp: 1897

Ion Ratio Lower Upper

50 100

52 53.9 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VN063199.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN063199.D (-1) (-)

2.04

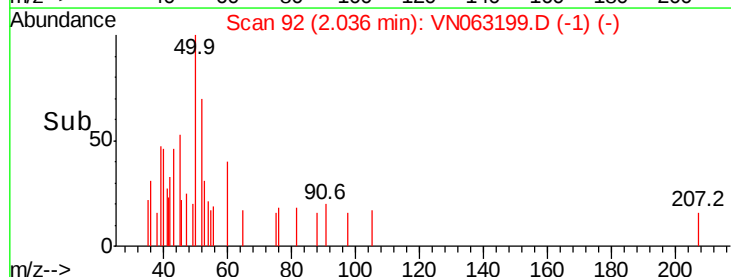
1000

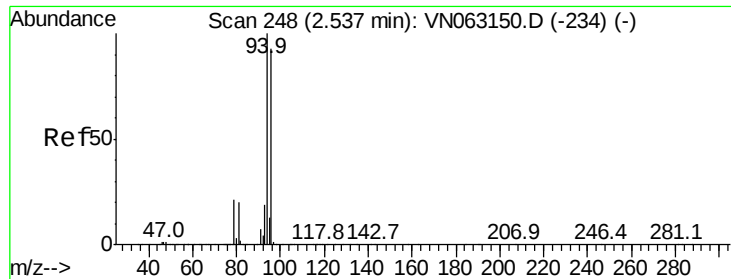
500

0

2.00 2.02 2.04 2.06 2.08

Time-->





#5

Bromomethane

Concen: 0.370 ug/l

RT: 2.54 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN063199.D

Acq: 2 Sep 2020 16:41

Instrument :

MSVOA_N

ClientSampleId :

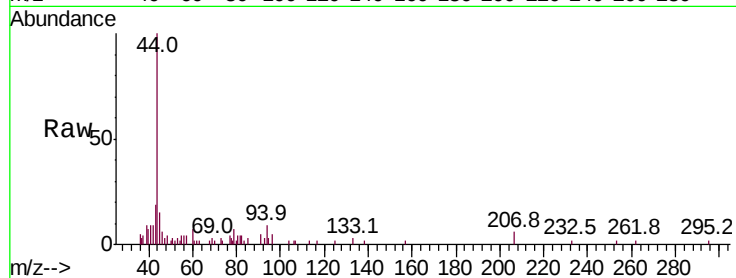
BP-VPB181-GW-823-825

Tot Ion: 94 Resp: 1516

Ion Ratio Lower Upper

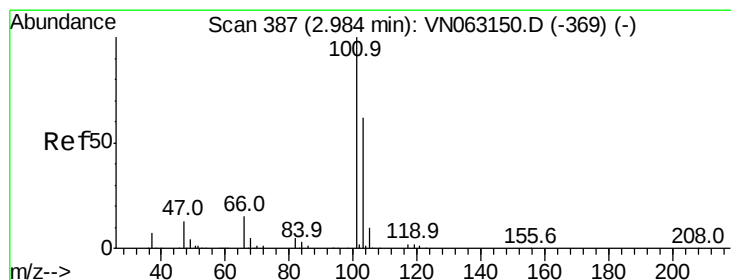
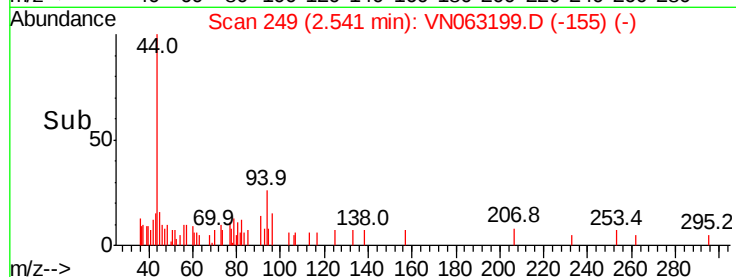
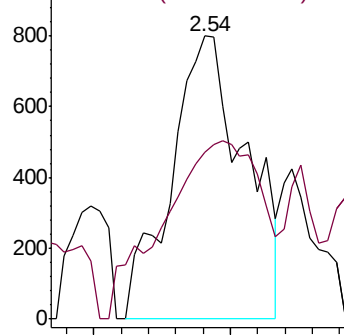
94 100

96 39.5 74.4 111.6#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.99 min Scan# 388

Delta R.T. 0.00 min

Lab File: VN063199.D

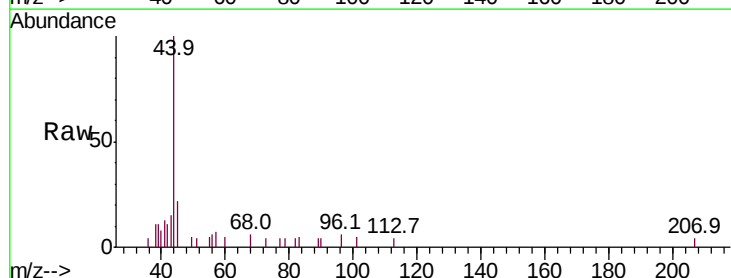
Acq: 2 Sep 2020 16:41

Tgt Ion: 101 Resp: 111

Ion Ratio Lower Upper

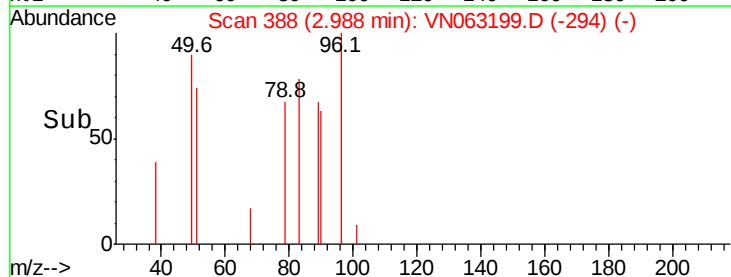
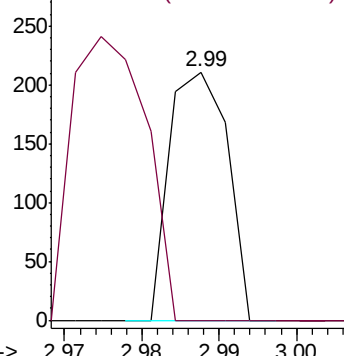
101 100

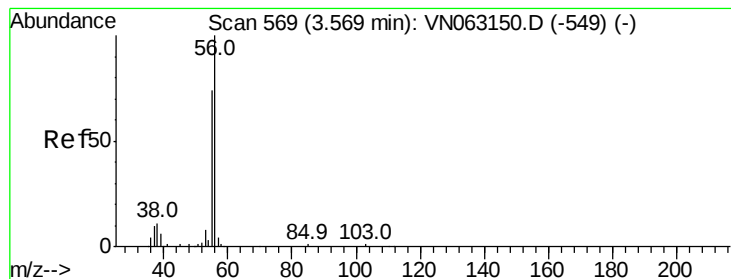
103 0.0 49.7 74.5#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V





#13

Acrolein

Concen: 16.009 ug/l

RT: 3.59 min Scan# 574

Delta R.T. 0.02 min

Lab File: VN063199.D

Acq: 2 Sep 2020 16:41

Instrument :

MSVOA_N

ClientSampleId :

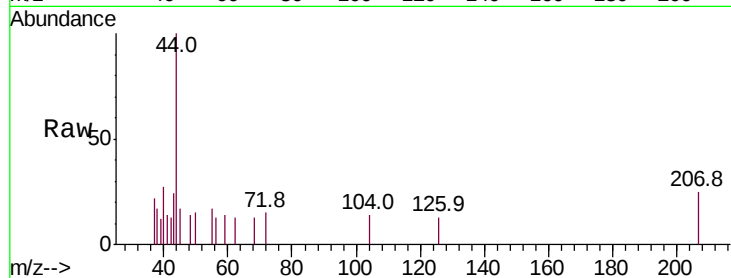
BP-VPB181-GW-823-825

Tot Ion: 56 Resp: 60

Ion Ratio Lower Upper

56 100

55 196.7 55.4 83.0#



Abundance Ion 56.00 (55.70 to 56.70): VN063150.D (-549) (-)

Ion 55.00 (54.70 to 55.70): VN063150.D (-549) (-)

3.59

250

200

150

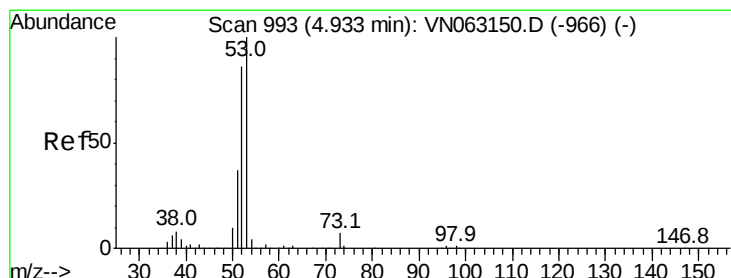
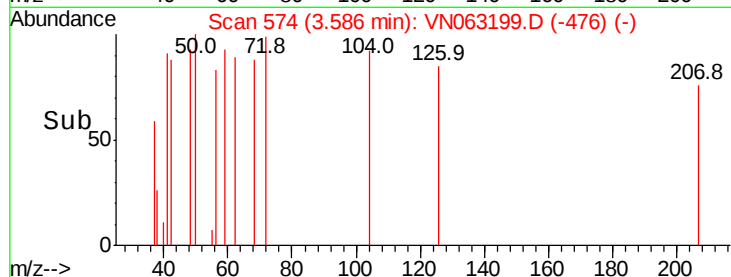
100

50

0

3.57 3.58 3.59

Time-->



#15

Acrylonitrile

Concen: 2.447 ug/l

RT: 4.95 min Scan# 997

Delta R.T. 0.01 min

Lab File: VN063199.D

Acq: 2 Sep 2020 16:41

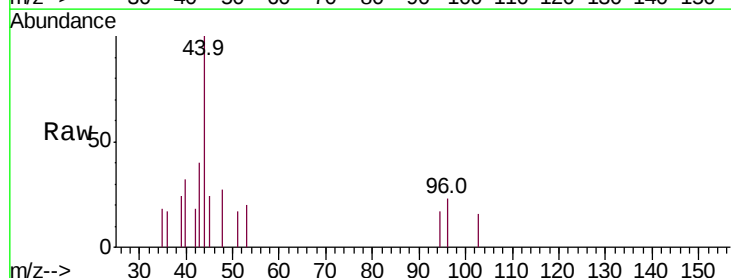
Tgt Ion: 53 Resp: 75

Ion Ratio Lower Upper

53 100

52 0.0 67.2 100.8#

51 141.3 30.2 45.4#



Abundance Ion 53.00 (52.70 to 53.70): VN063150.D (-966) (-)

Ion 52.00 (51.70 to 52.70): VN063150.D (-966) (-)

Ion 51.00 (50.70 to 51.70): VN063150.D (-966) (-)

4.95

250

200

150

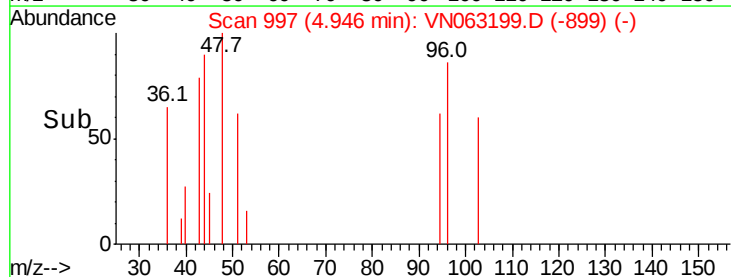
100

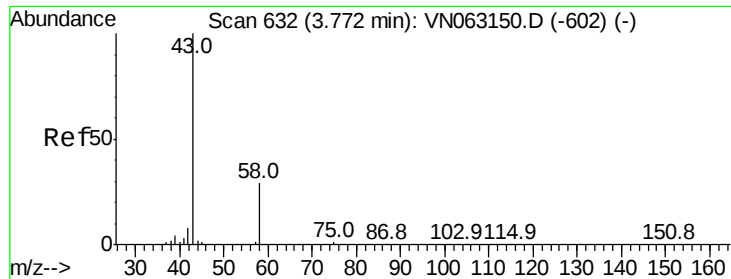
50

0

4.93 4.94 4.95

Time-->





#16

Acetone

Concen: 1.183 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN063199.D

Acq: 2 Sep 2020 16:41

Instrument :

MSVOA_N

ClientSampleId :

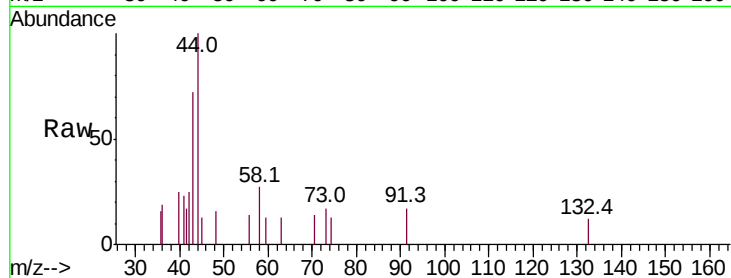
BP-VPB181-GW-823-825

Tot Ion: 43 Resp: 1689

Ion Ratio Lower Upper

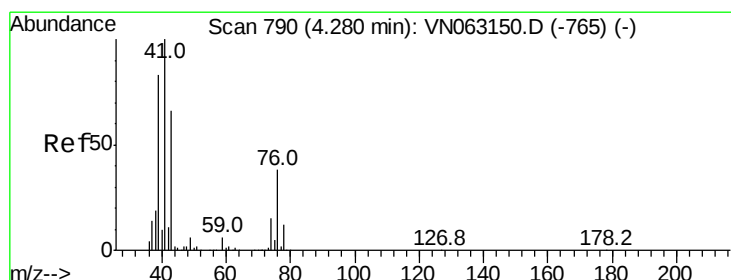
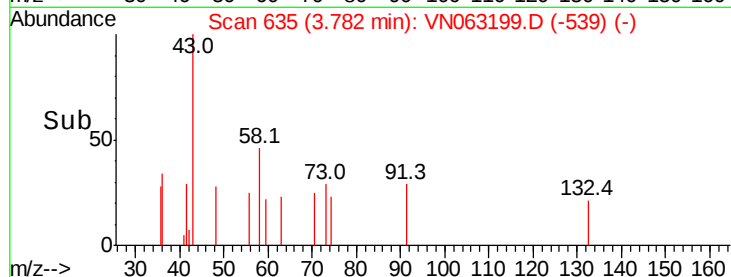
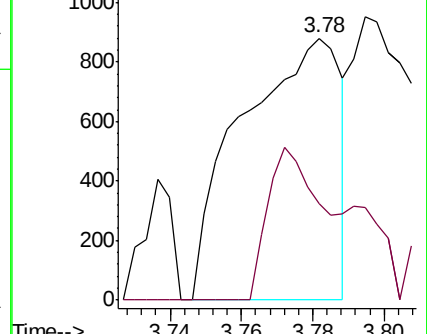
43 100

58 37.0 23.1 34.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.299 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.01 min

Lab File: VN063199.D

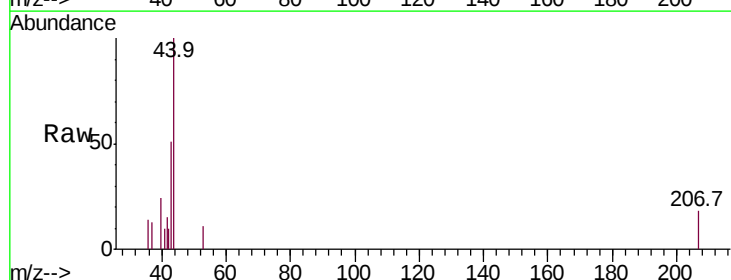
Acq: 2 Sep 2020 16:41

Tgt Ion: 43 Resp: 1093

Ion Ratio Lower Upper

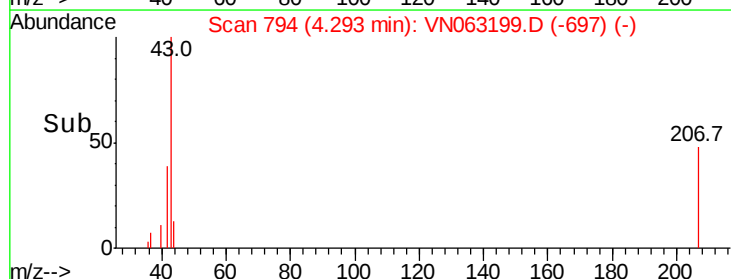
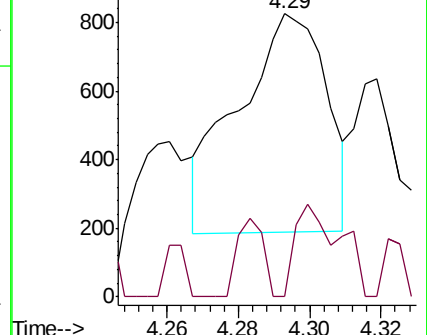
43 100

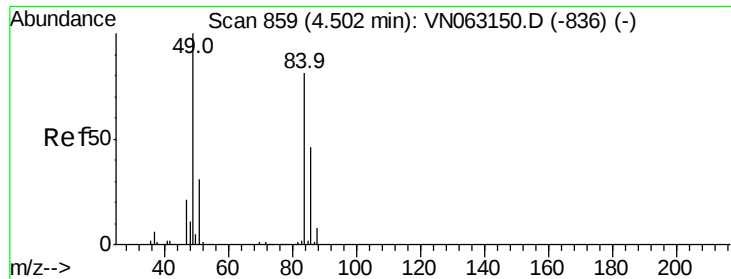
74 21.5 19.0 28.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

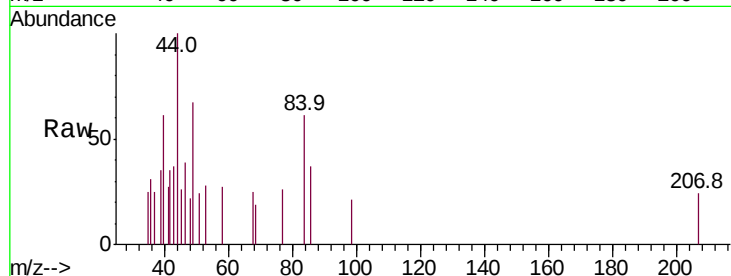




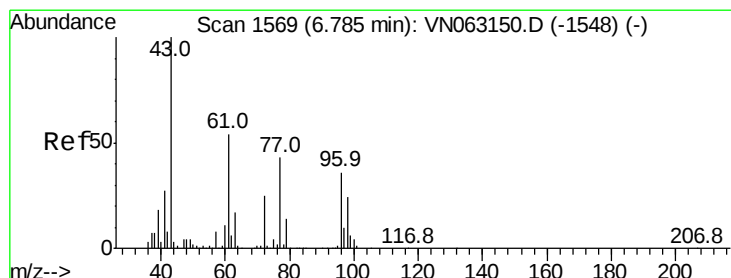
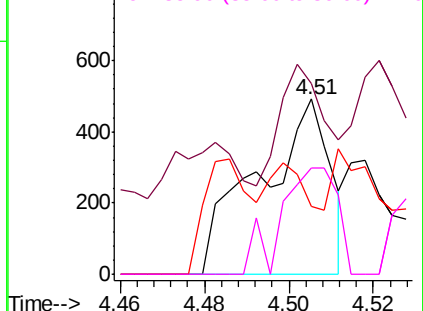
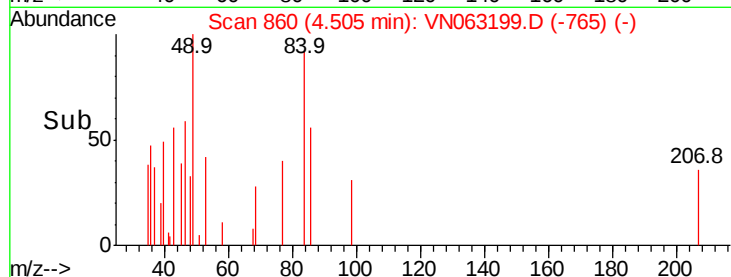
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063199.D
Acq: 2 Sep 2020 16:41

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-GW-823-825

Tot Ion: 84 Resp: 576
Ion Ratio Lower Upper
84 100
49 42.9 98.4 147.6#
51 39.0 30.4 45.6
86 61.0 45.7 68.5

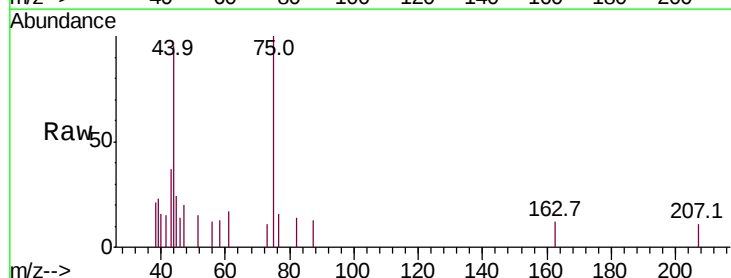


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

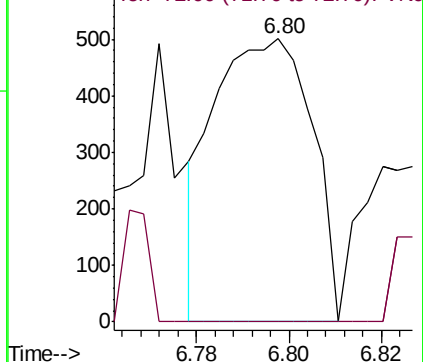
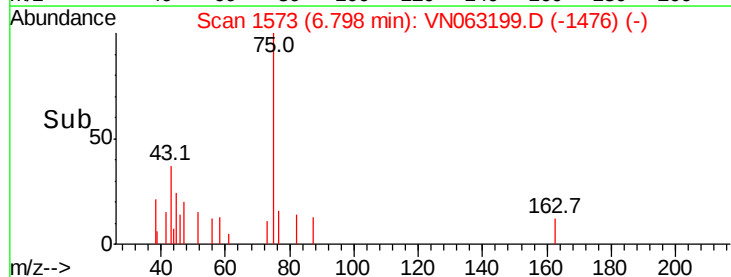


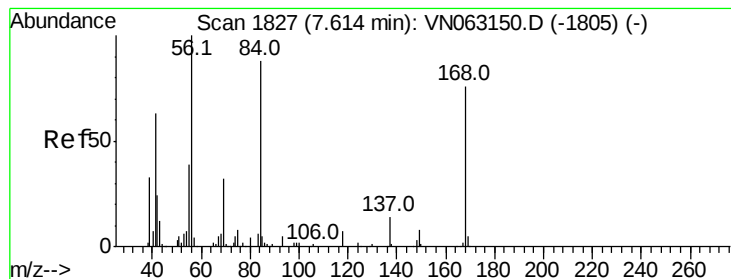
#25
2-Butanone
Concen: 0.332 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN063199.D
Acq: 2 Sep 2020 16:41

Tgt Ion: 43 Resp: 734
Ion Ratio Lower Upper
43 100
72 0.0 20.2 30.4#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 72.00 (71.70 to 72.70): VNC





#31

Cyclohexane

Concen: Below Cal

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063199.D

Acq: 2 Sep 2020 16:41

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-GW-823-825

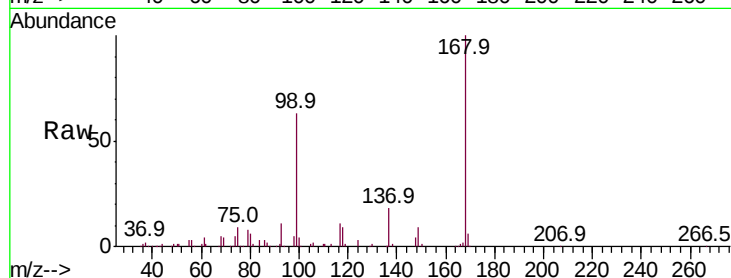
Tot Ion: 56 Resp: 8906

Ion Ratio Lower Upper

56 100

69 154.6 25.4 38.0#

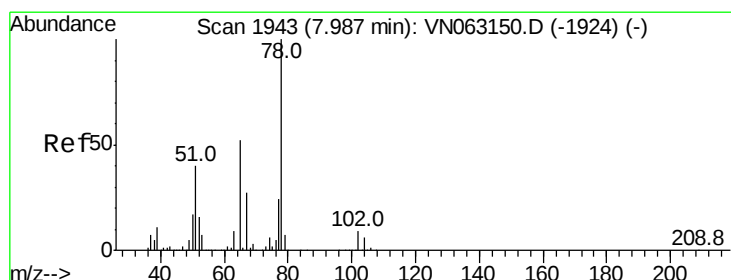
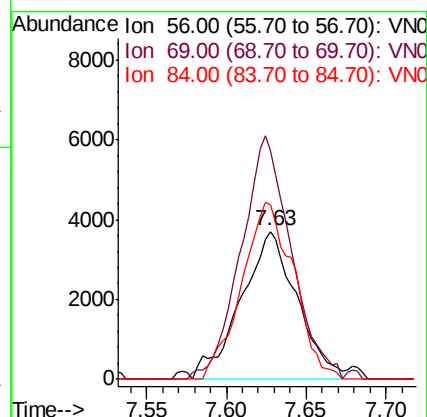
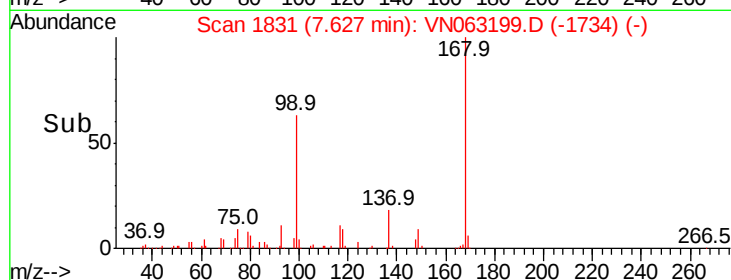
84 117.7 70.2 105.4#



Abundance Ion 56.00 (55.70 to 56.70): VN063150.D (-1805) (-)

Ion 69.00 (68.70 to 69.70): VN063150.D (-1805) (-)

Ion 84.00 (83.70 to 84.70): VN063150.D (-1805) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.406 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063199.D

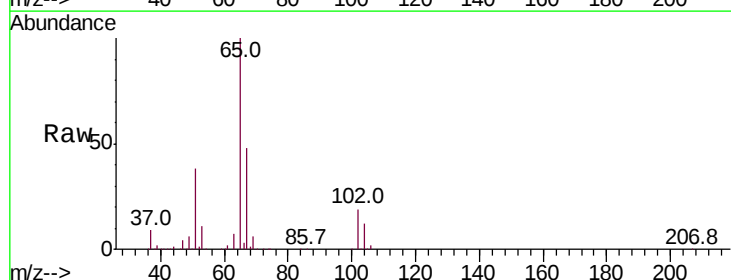
Acq: 2 Sep 2020 16:41

Tgt Ion: 65 Resp: 248105

Ion Ratio Lower Upper

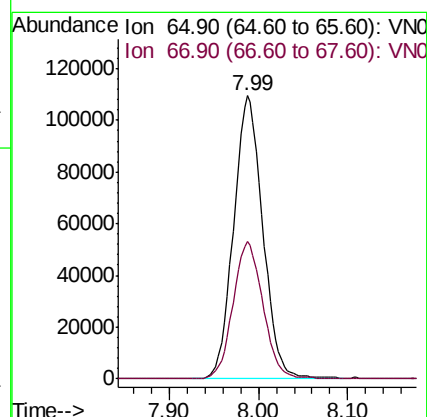
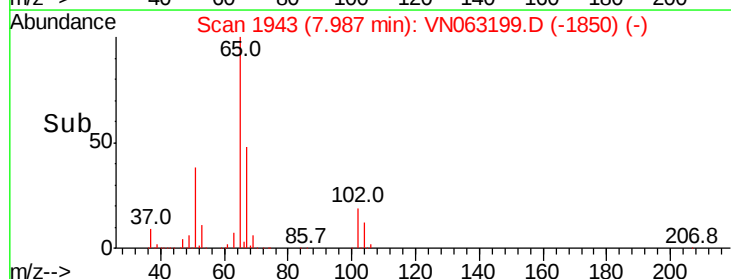
65 100

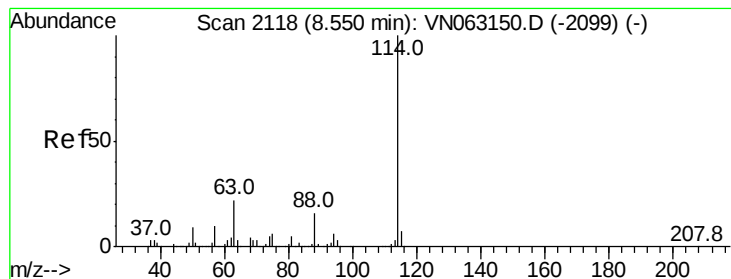
67 49.9 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VN063199.D (-1850) (-)

Ion 66.90 (66.60 to 67.60): VN063199.D (-1850) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN063199.D

Acq: 2 Sep 2020 16:41

Instrument :

MSVOA_N

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BP-VPB181-GW-823-825

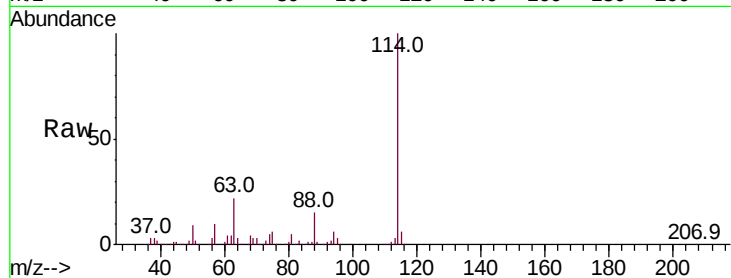
Tot Ion:114 Resp: 601584

Ion Ratio Lower Upper

114 100

63 21.8 0.0 43.0

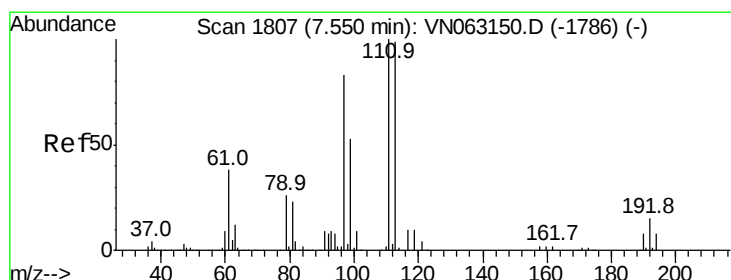
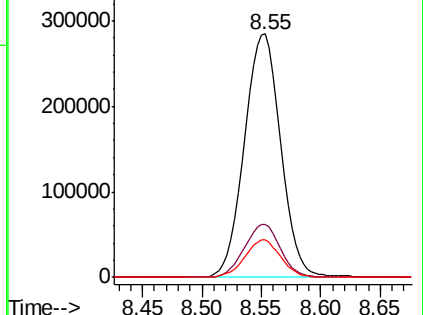
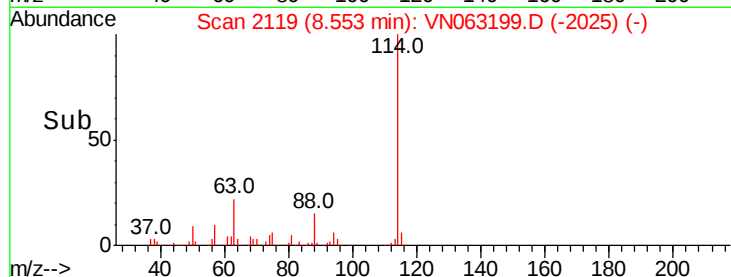
88 15.2 0.0 31.6



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: 49.022 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063199.D

Acq: 2 Sep 2020 16:41

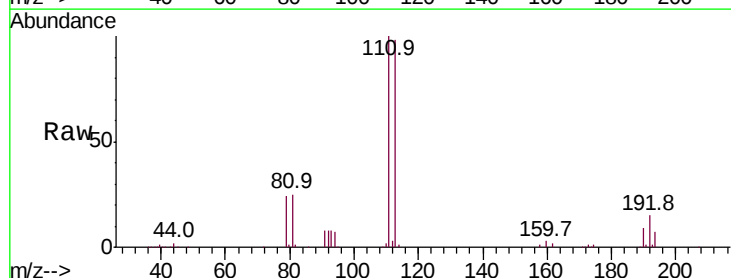
Tgt Ion:113 Resp: 189198

Ion Ratio Lower Upper

113 100

111 103.4 80.7 121.1

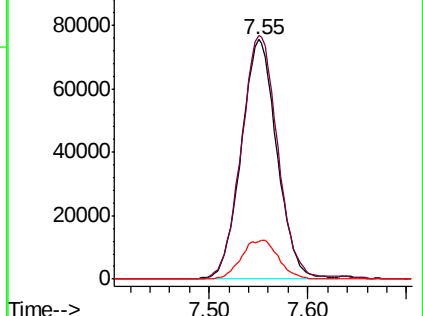
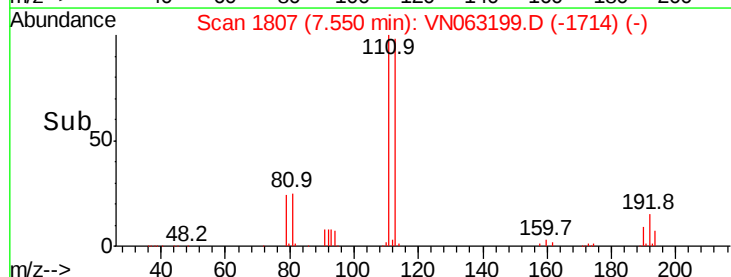
192 16.9 12.6 19.0

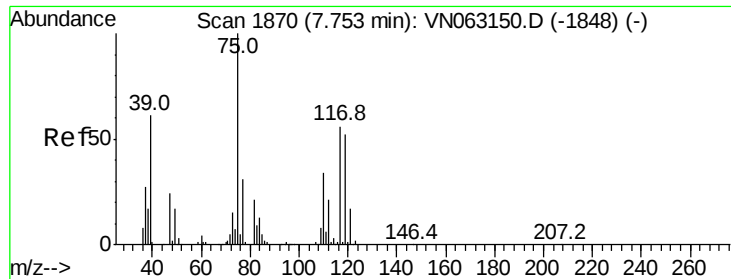


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.831 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063199.D

Acq: 2 Sep 2020 16:41

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-GW-823-825

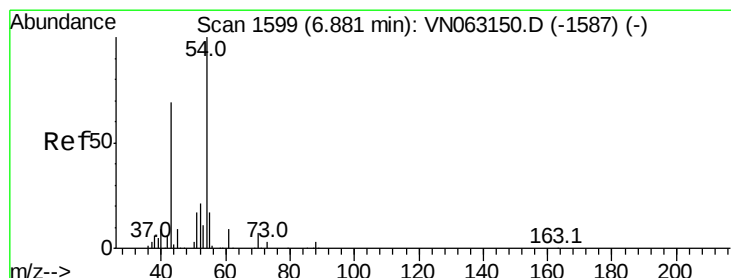
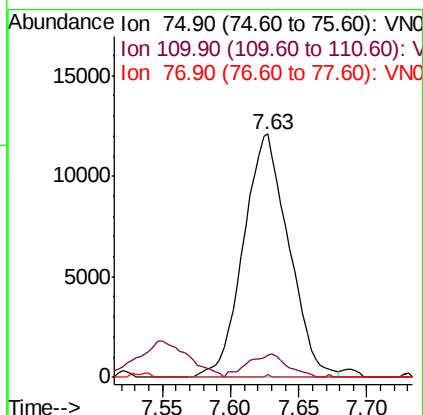
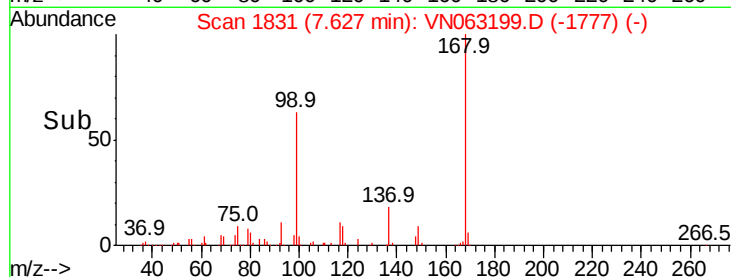
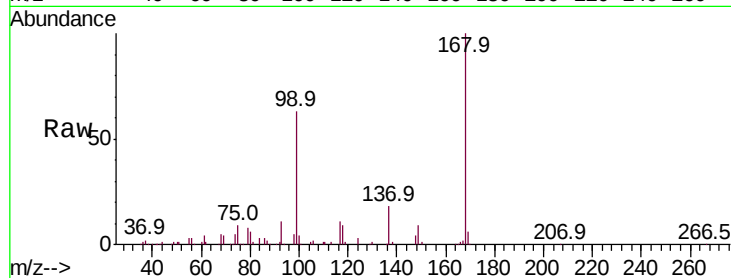
Tot Ion: 75 Resp: 27939

Ion Ratio Lower Upper

75 100

110 8.3 16.6 49.8#

77 0.1 25.4 38.2#



#37

Ethyl Acetate

Concen: 0.418 ug/l

RT: 6.88 min Scan# 1598

Delta R.T. -0.00 min

Lab File: VN063199.D

Acq: 2 Sep 2020 16:41

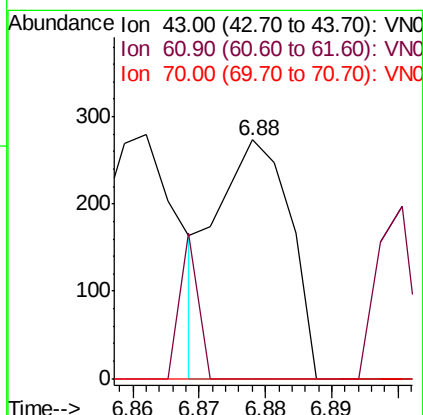
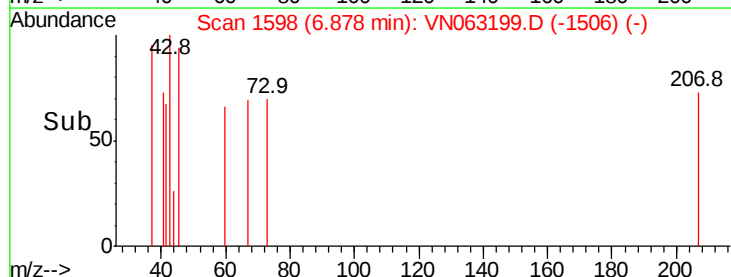
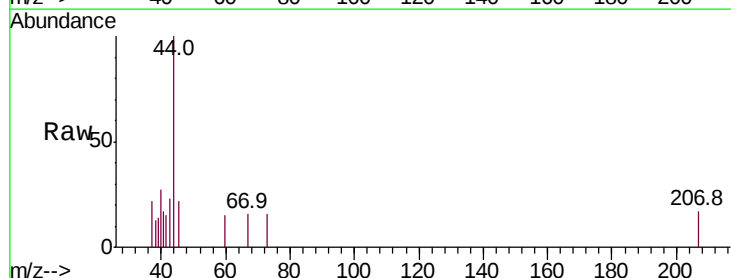
Tgt Ion: 43 Resp: 210

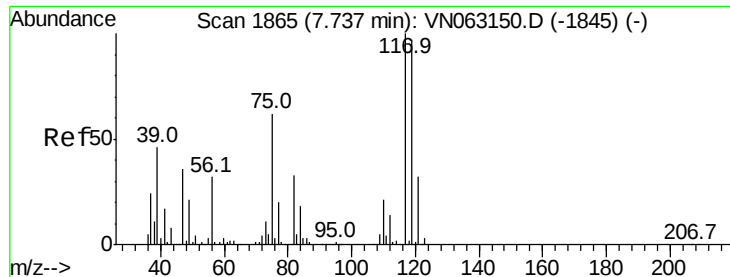
Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.4#

70 0.0 3.0 4.6#





#38

Carbon Tetrachloride

Concen: 5.883 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063199.D

Acq: 2 Sep 2020 16:41

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-GW-823-825

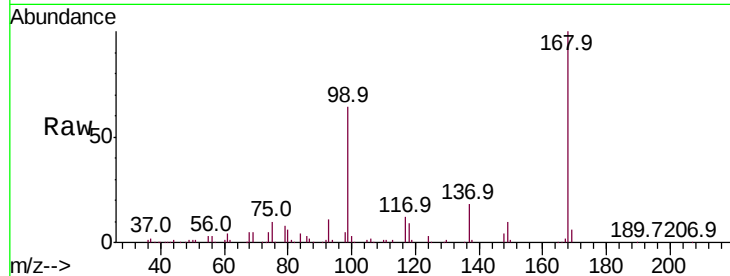
Tot Ion:117 Resp: 34503

Ion Ratio Lower Upper

117 100

119 4.5 77.2 115.8#

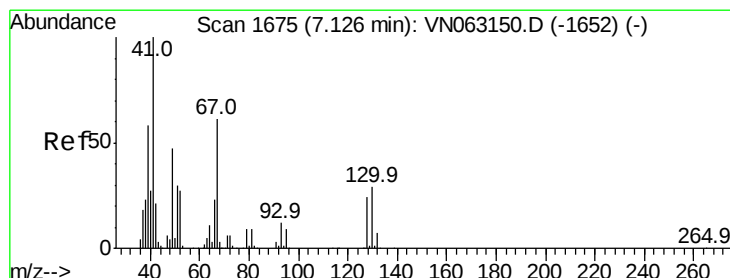
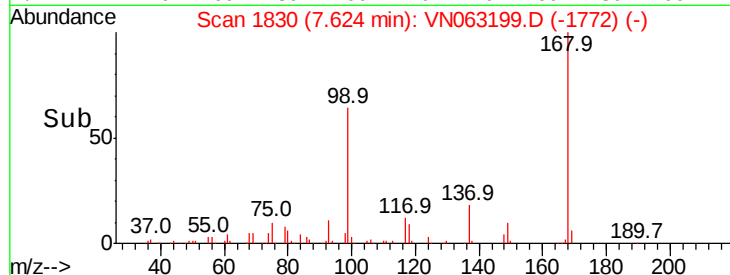
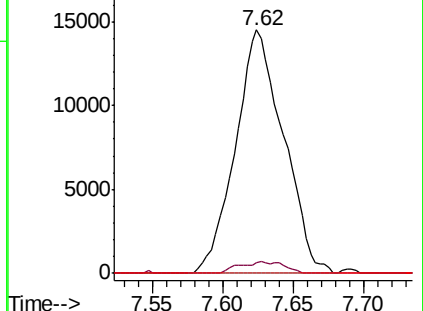
121 0.0 25.6 38.4#



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



#41

Methacrylonitrile

Concen: 0.235 ug/l

RT: 7.12 min Scan# 1672

Delta R.T. -0.01 min

Lab File: VN063199.D

Acq: 2 Sep 2020 16:41

Tgt Ion: 41 Resp: 572

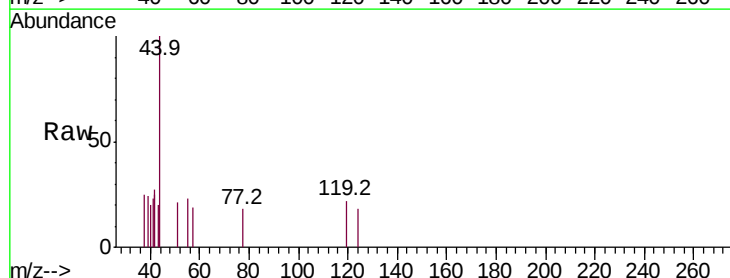
Ion Ratio Lower Upper

41 100

39 67.3 46.6 70.0

67 0.0 62.6 94.0#

52 0.0 28.0 42.0#

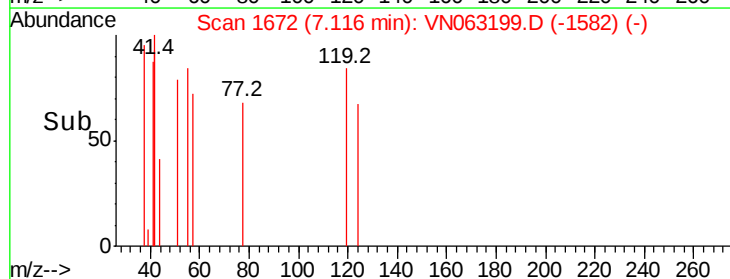
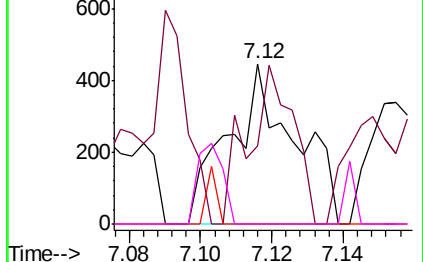


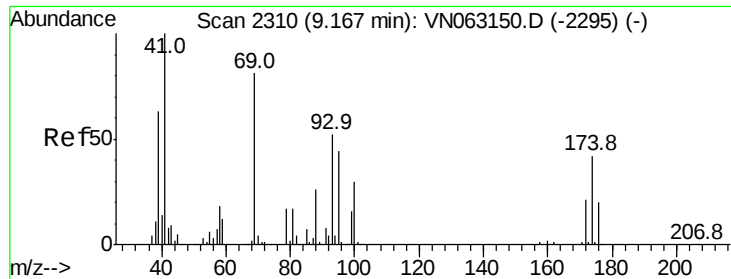
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V

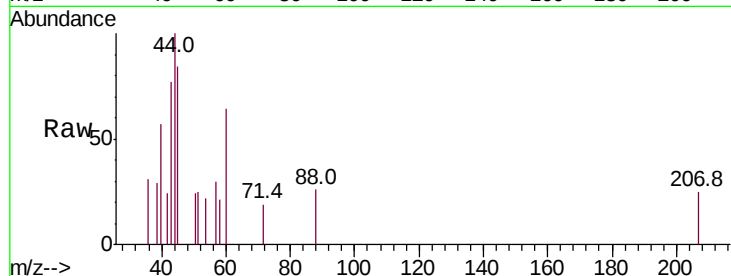




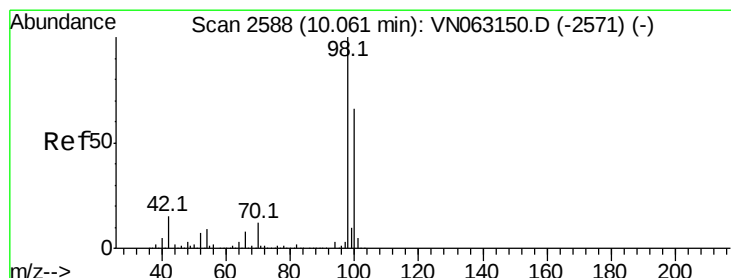
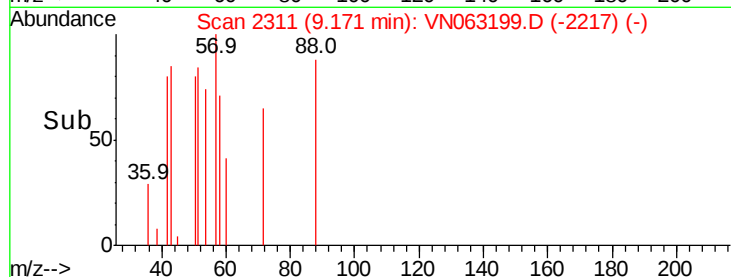
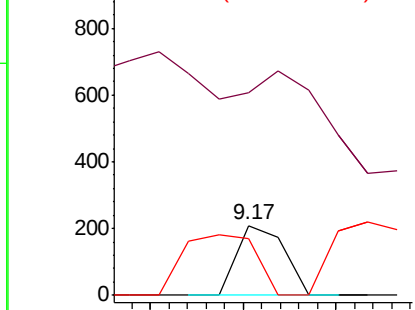
#49
1,4-Dioxane
Concen: 1.125 ug/l
RT: 9.17 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN063199.D
Acq: 2 Sep 2020 16:41

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-GW-823-825

Tot Ion: 88 Resp: 74
Ion Ratio Lower Upper
88 100
43 0.0 28.6 42.8#
58 133.8 53.2 79.8#

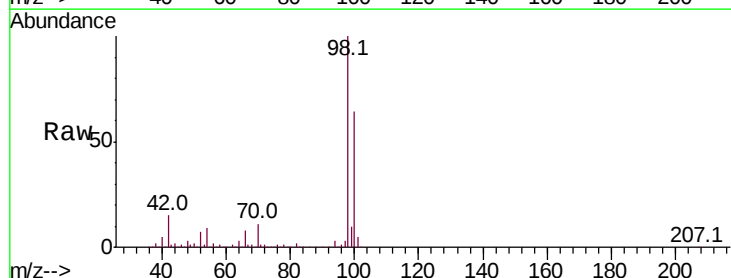


Abundance Ion 88.00 (87.70 to 88.70): VNO
Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO

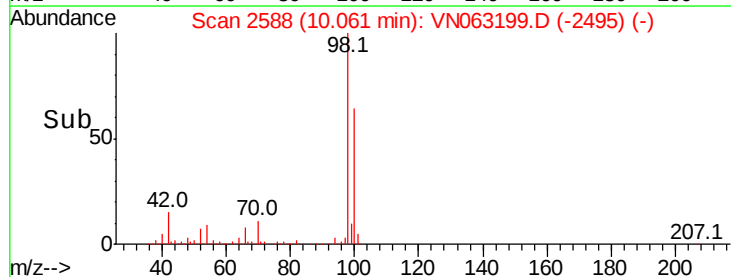
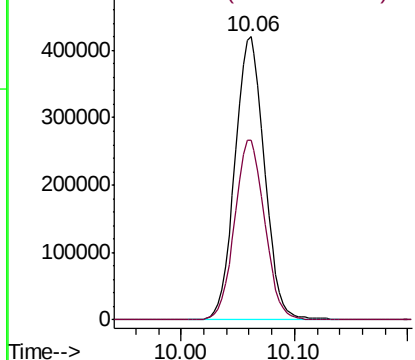


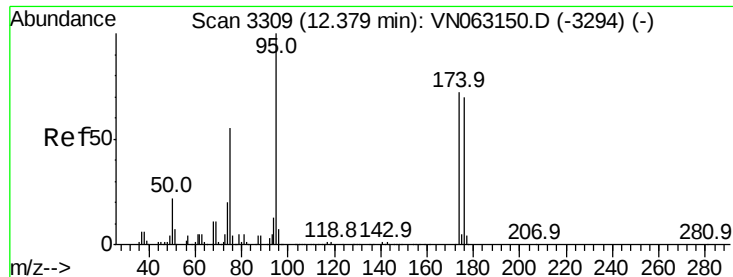
#50
Toluene-d8
Concen: 51.421 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063199.D
Acq: 2 Sep 2020 16:41

Tgt Ion: 98 Resp: 763873
Ion Ratio Lower Upper
98 100
100 64.9 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VNO
Ion 100.00 (99.70 to 100.70): VNO





#62

4-Bromofluorobenzene

Concen: 50.087 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.00 min

Lab File: VN063199.D

Acq: 2 Sep 2020 16:41

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-GW-823-825

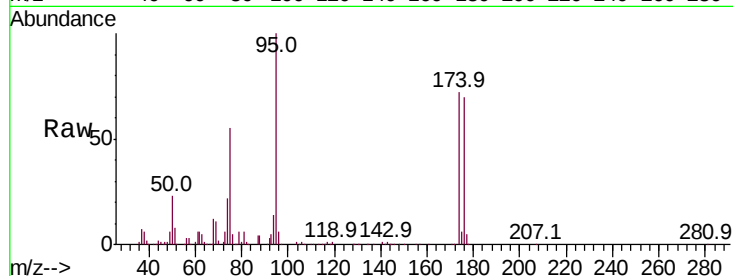
Tot Ion: 95 Resp: 260274

Ion Ratio Lower Upper

95 100

174 73.4 0.0 143.8

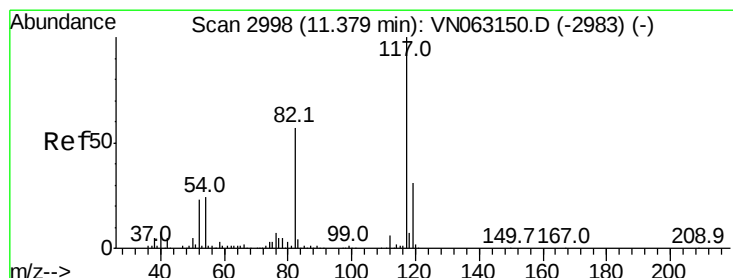
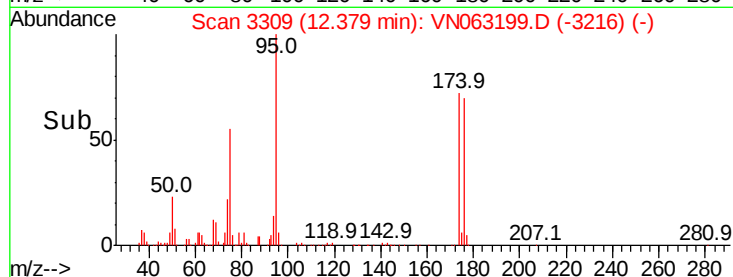
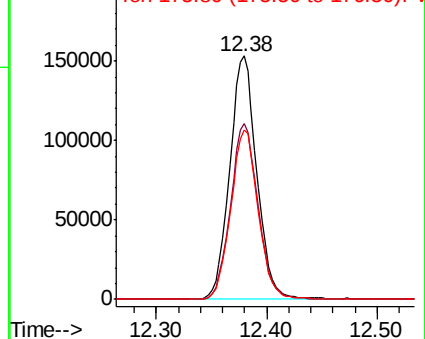
176 70.7 0.0 138.4



Abundance Ion 94.90 (94.60 to 95.60): VN063150.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063150.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063150.D (-3294) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2999

Delta R.T. 0.00 min

Lab File: VN063199.D

Acq: 2 Sep 2020 16:41

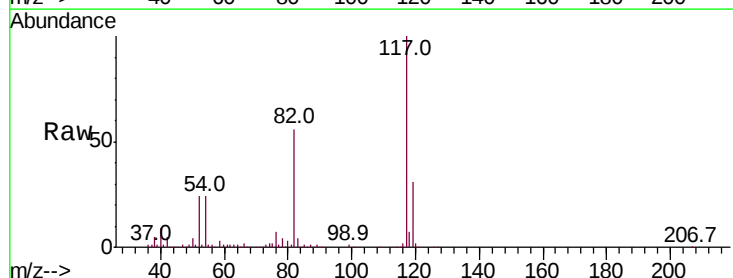
Tgt Ion: 117 Resp: 587294

Ion Ratio Lower Upper

117 100

82 55.6 45.4 68.0

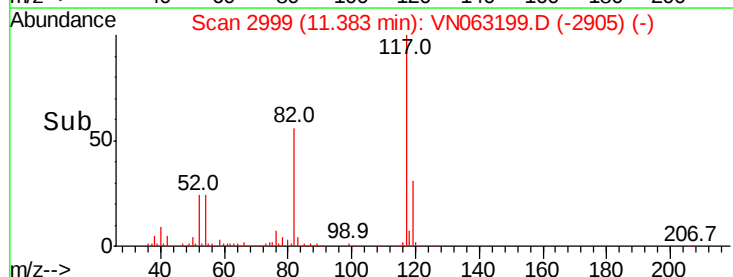
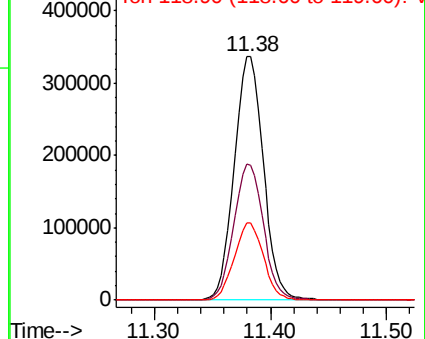
119 31.5 24.6 37.0

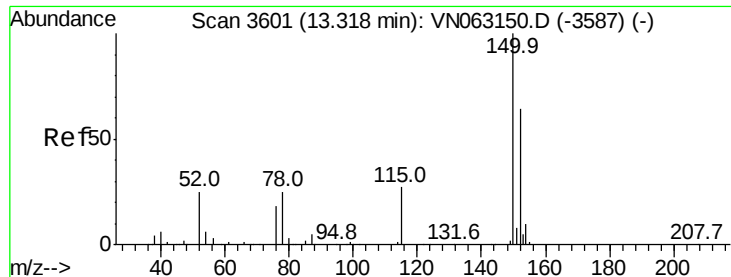


Abundance Ion 116.90 (116.60 to 117.60): VN063150.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN063150.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063150.D (-2983) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN063199.D

Acq: 2 Sep 2020 16:41

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-GW-823-825

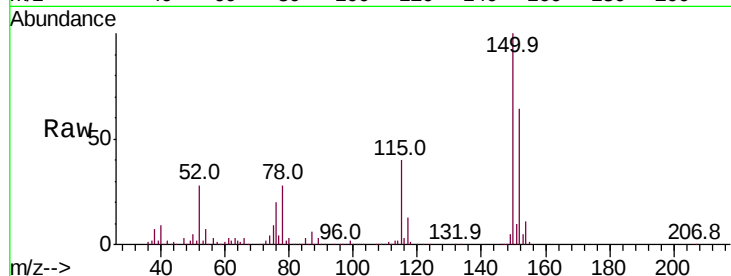
Tot Ion:152 Resp: 223994

Ion Ratio Lower Upper

152 100

115 62.0 32.0 96.2

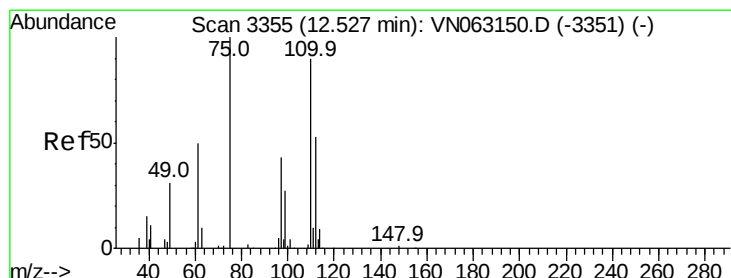
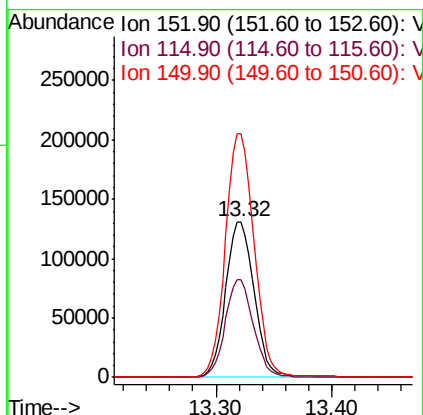
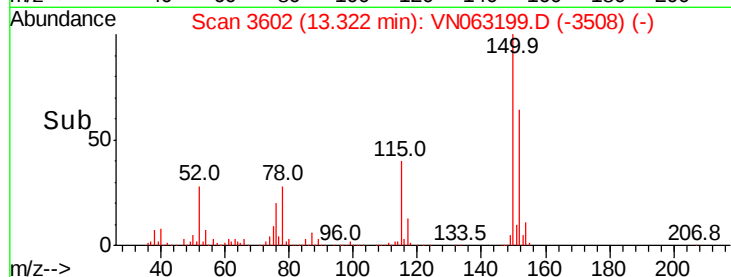
150 157.4 0.0 353.0



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: 33.096 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063199.D

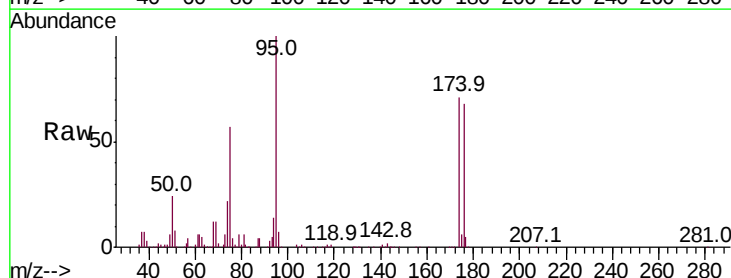
Acq: 2 Sep 2020 16:41

Tgt Ion: 75 Resp: 145657

Ion Ratio Lower Upper

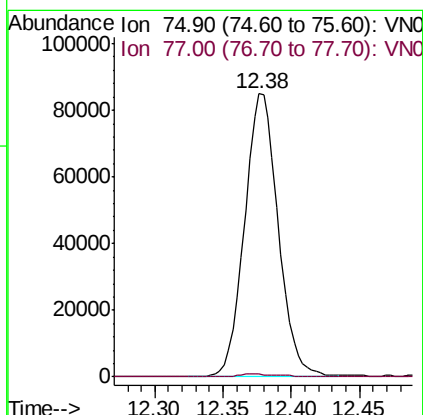
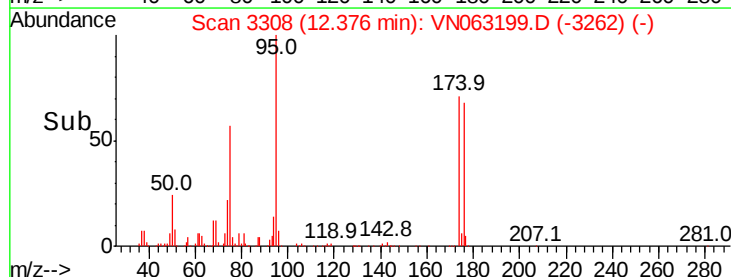
75 100

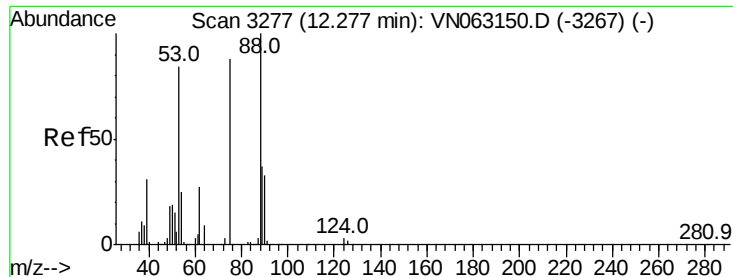
77 0.8 0.0 0.0#



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: 79.993 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063199.D

Acq: 2 Sep 2020 16:41

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-GW-823-825

Tot Ion: 75 Resp: 145657

Ion Ratio Lower Upper

75 100

53 0.0 78.7 118.1#

89 0.0 35.3 52.9#

