

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090420\
 Data File : VN063240.D
 Acq On : 4 Sep 2020 12:13
 Operator : JC/MD
 Sample : L3923-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB181-EB-20200902

Quant Time: Sep 05 07:28:47 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	260846	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	508831	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	496468	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	194570	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	207577	48.68	ug/l	0.00
Spiked Amount			Recovery	=	97.36%	
35) Dibromofluoromethane	7.55	113	163711	50.15	ug/l	0.00
Spiked Amount			Recovery	=	100.30%	
50) Toluene-d8	10.06	98	636883	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
62) 4-Bromofluorobenzene	12.38	95	216243	49.20	ug/l	0.00
Spiked Amount			Recovery	=	98.40%	

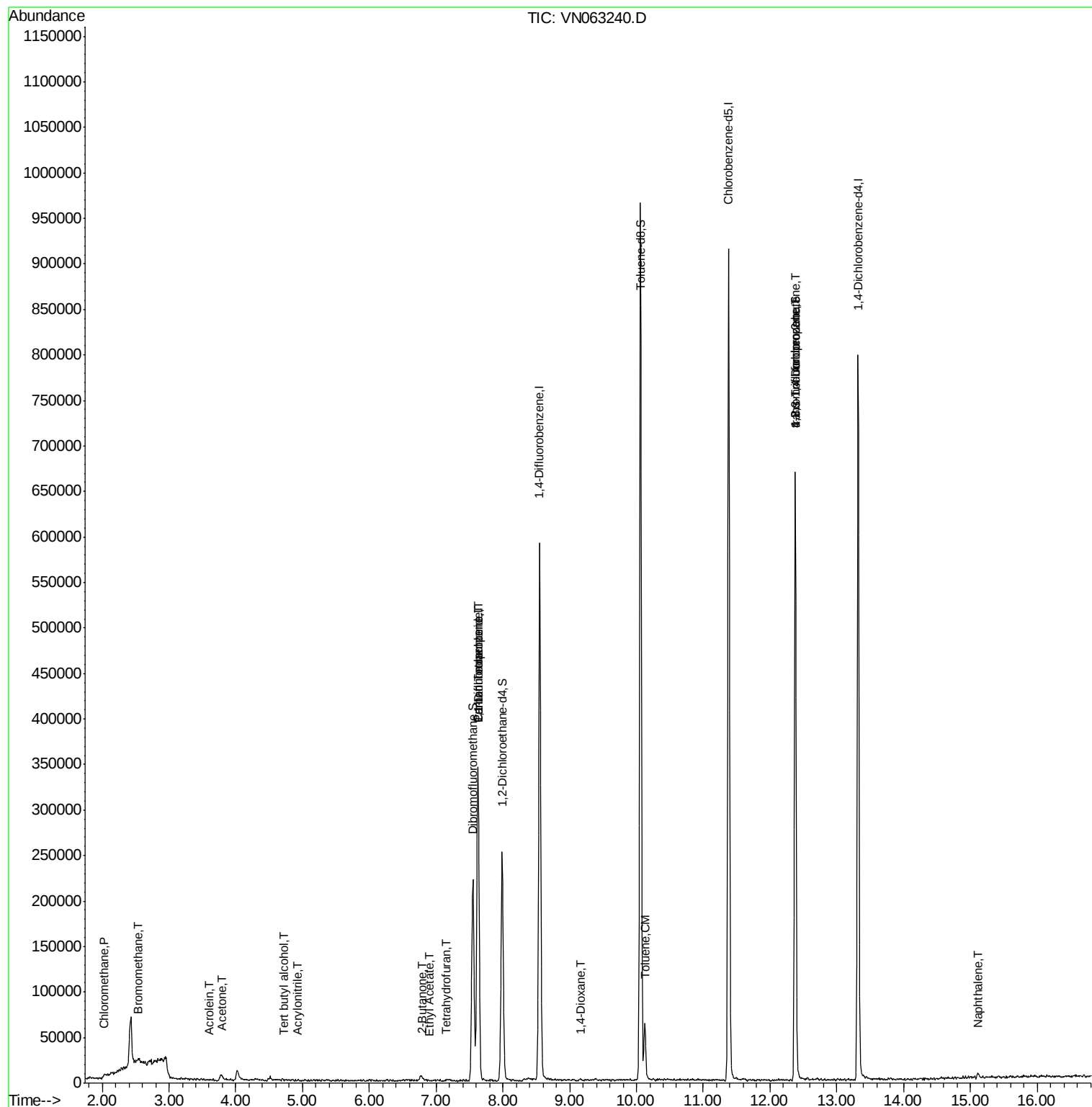
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1550	0.414	ug/l #	74
5) Bromomethane	2.54	94	1828	0.526	ug/l #	37
7) Trichlorofluoromethane	2.85	101	187	Below Cal	#	19
11) Tert butyl alcohol	4.72	59	150	0.287	ug/l #	72
13) Acrolein	3.59	56	70	16.098	ug/l #	15
15) Acrylonitrile	4.93	53	120	2.485	ug/l #	50
16) Acetone	3.79	43	10221	8.432	ug/l	99
20) Methylene Chloride	4.51	84	1278	Below Cal	#	76
25) 2-Butanone	6.80	43	913	0.486	ug/l #	50
29) Tetrahydrofuran	7.16	42	459	0.354	ug/l #	40
31) Cyclohexane	7.63	56	7986	Below Cal	#	46
36) 1,1-Dichloropropene	7.63	75	24437	4.996	ug/l #	49
37) Ethyl Acetate	6.89	43	98	0.401	ug/l #	72
38) Carbon Tetrachloride	7.63	117	30111	6.070	ug/l #	14
49) 1,4-Dioxane	9.16	88	73	1.312	ug/l #	1
52) Toluene	10.13	92	24807	2.770	ug/l	93
76) 1,2,3-Trichloropropane	12.38	75	127968	33.474	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	127968	80.906	ug/l #	10
95) Naphthalene	15.11	128	3928	0.350	ug/l #	93

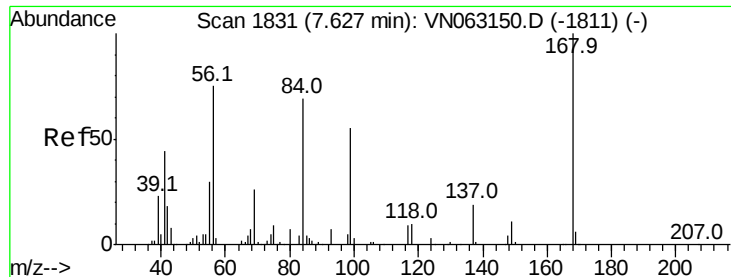
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063240.D

Acq: 4 Sep 2020 12:13

Instrument :

MSVOA_N

ClientSampleId :

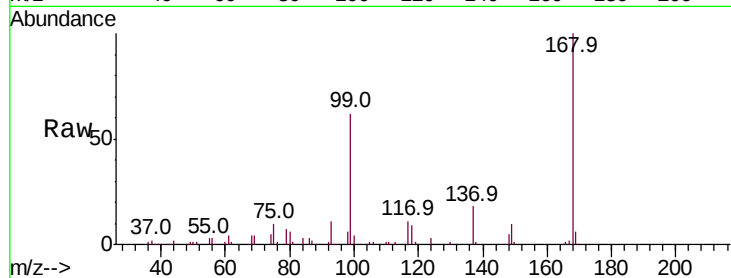
BP-VPB181-EB-20200902

Tot Ion:168 Resp: 260846

Ion Ratio Lower Upper

168 100

99 62.1 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): VN063150.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN063150.D (-1811) (-)

7.63

120000

100000

80000

60000

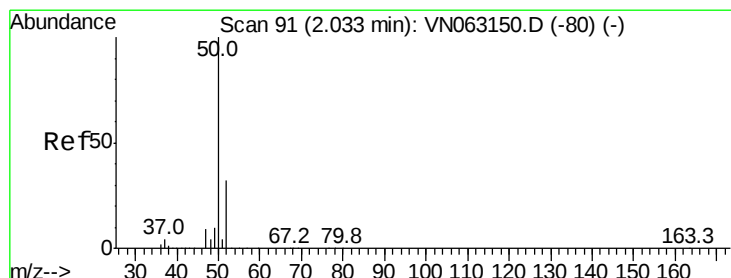
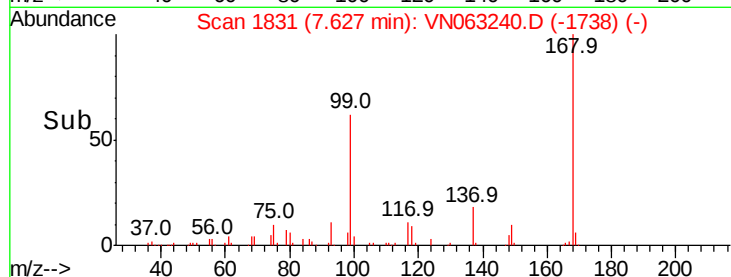
40000

20000

0

7.50 7.55 7.60 7.65 7.70

Time-->



#3

Chloromethane

Concen: 0.414 ug/l

RT: 2.03 min Scan# 90

Delta R.T. -0.00 min

Lab File: VN063240.D

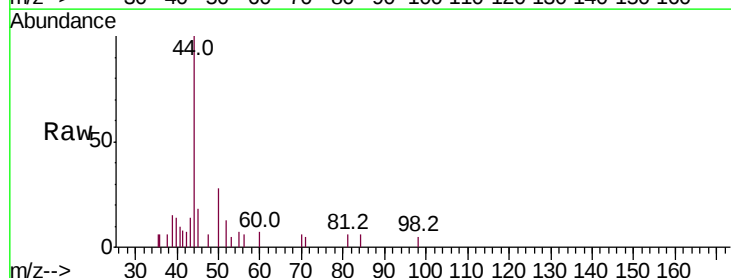
Acq: 4 Sep 2020 12:13

Tgt Ion: 50 Resp: 1550

Ion Ratio Lower Upper

50 100

52 46.7 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VN063150.D (-80) (-)

Ion 51.90 (51.60 to 52.60): VN063150.D (-80) (-)

2.03

1000

800

600

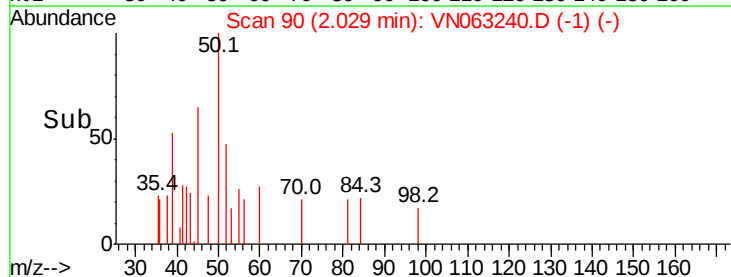
400

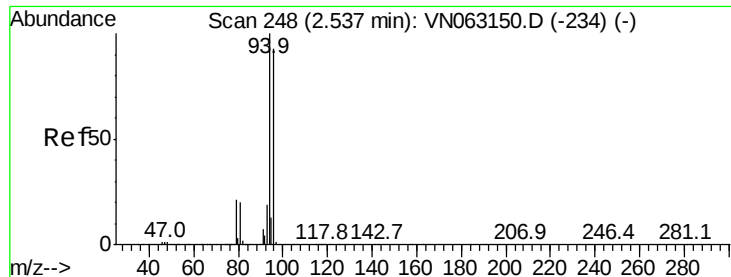
200

0

2.00 2.05

Time-->





#5

Bromomethane

Concen: 0.526 ug/l

RT: 2.54 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN063240.D

Acq: 4 Sep 2020 12:13

Instrument :

MSVOA_N

ClientSampleId :

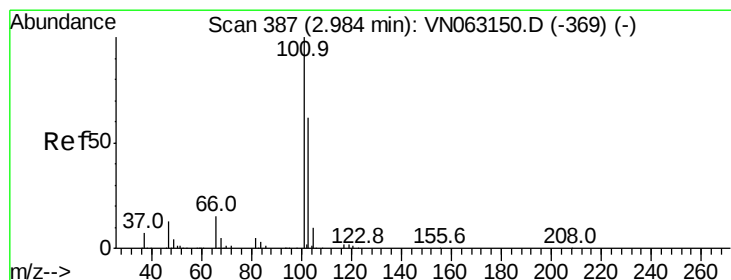
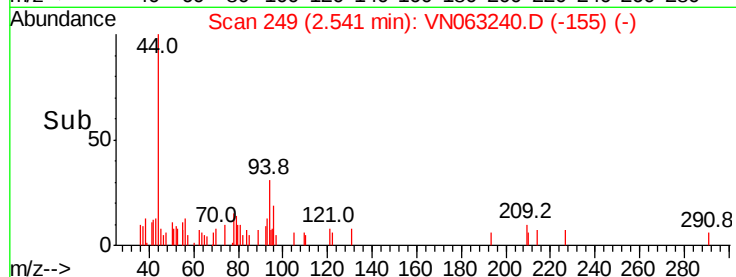
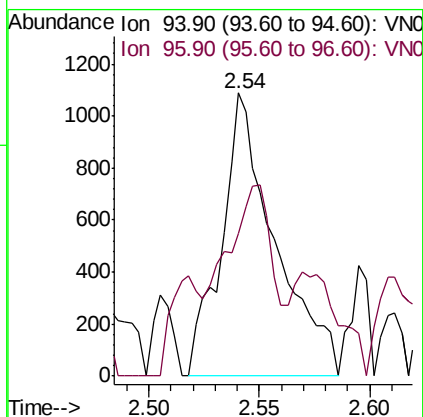
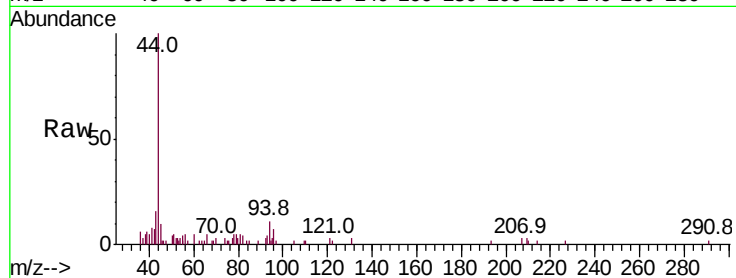
BP-VPB181-EB-20200902

Tot Ion: 94 Resp: 1828

Ion Ratio Lower Upper

94 100

96 32.4 74.4 111.6#



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.85 min Scan# 344

Delta R.T. -0.14 min

Lab File: VN063240.D

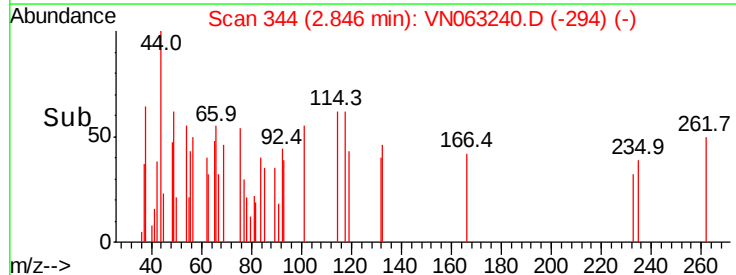
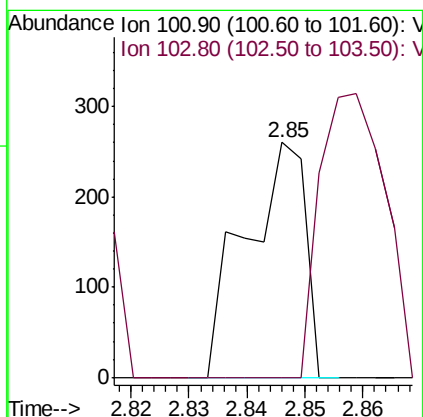
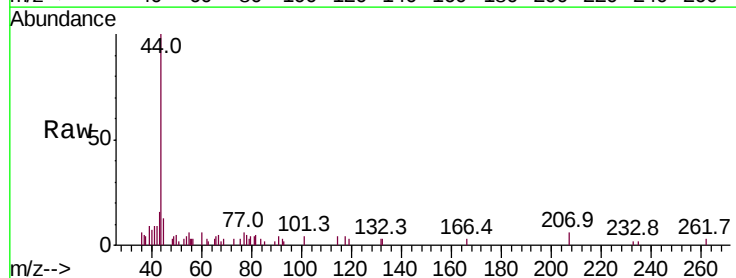
Acq: 4 Sep 2020 12:13

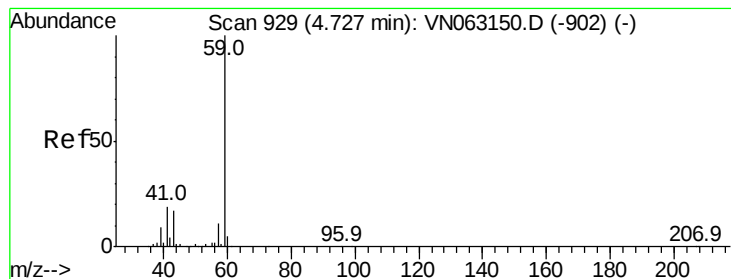
Tgt Ion: 101 Resp: 187

Ion Ratio Lower Upper

101 100

103 0.0 49.7 74.5#





#11

Tert butyl alcohol

Concen: 0.287 ug/l

RT: 4.72 min Scan# 928

Delta R.T. -0.00 min

Lab File: VN063240.D

Acq: 4 Sep 2020 12:13

Instrument :

MSVOA_N

ClientSampleId :

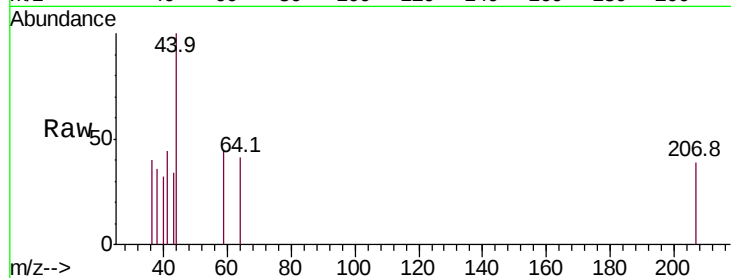
BP-VPB181-EB-20200902

Tot Ion: 59 Resp: 150

Ion Ratio Lower Upper

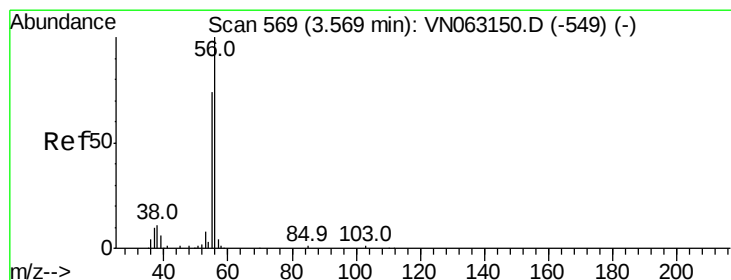
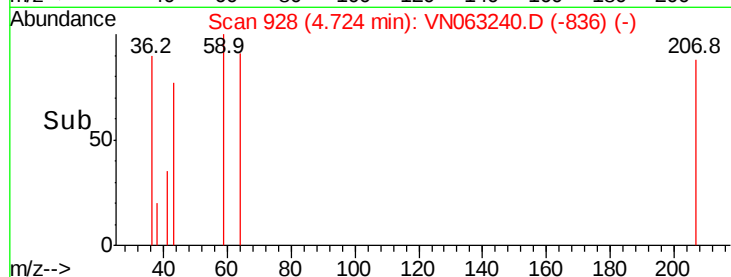
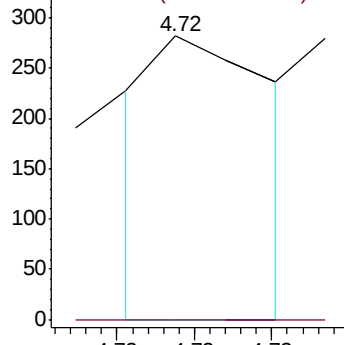
59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#13

Acrolein

Concen: 16.098 ug/l

RT: 3.59 min Scan# 575

Delta R.T. 0.02 min

Lab File: VN063240.D

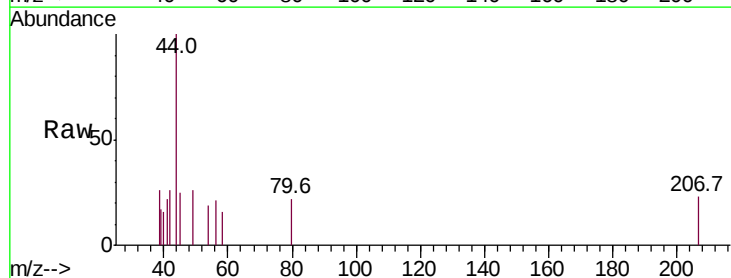
Acq: 4 Sep 2020 12:13

Tgt Ion: 56 Resp: 70

Ion Ratio Lower Upper

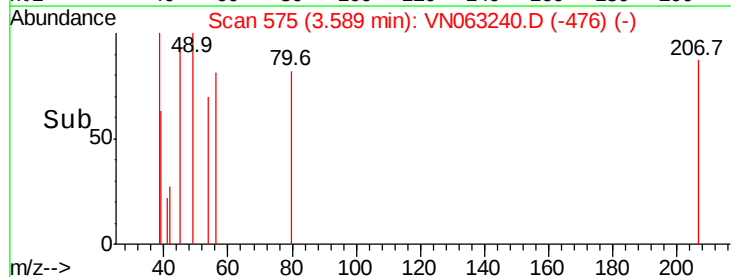
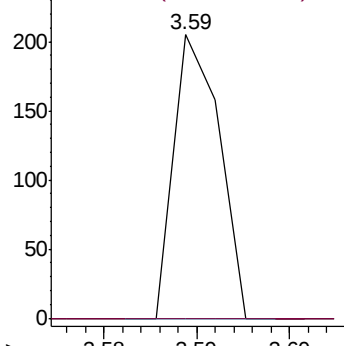
56 100

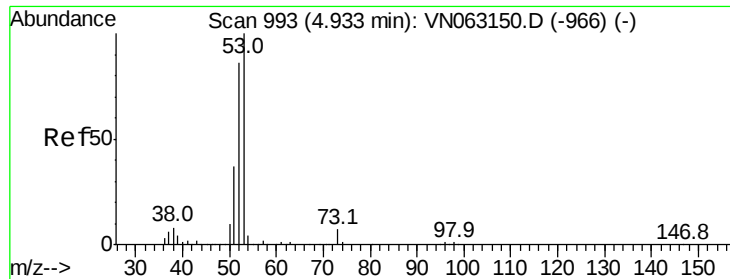
55 0.0 55.4 83.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#15

Acrylonitrile

Concen: 2.485 ug/l

RT: 4.93 min Scan# 992

Delta R.T. -0.00 min

Lab File: VN063240.D

Acq: 4 Sep 2020 12:13

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-EB-20200902

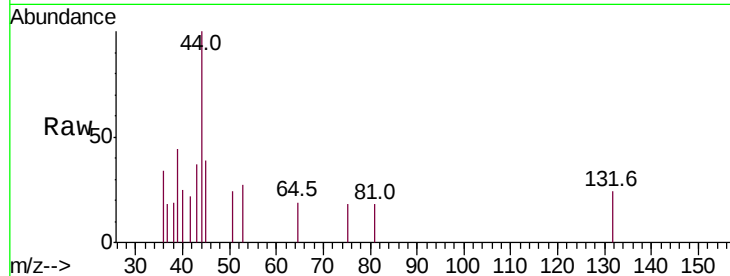
Tot Ion: 53 Resp: 120

Ion Ratio Lower Upper

53 100

52 116.7 67.2 100.8#

51 87.5 30.2 45.4#

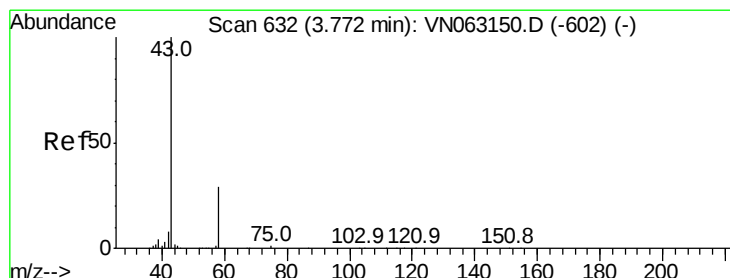
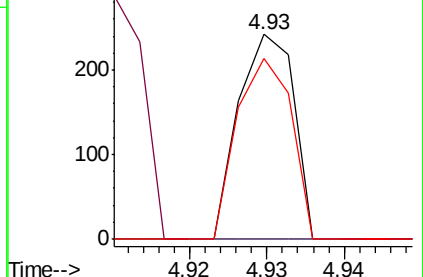
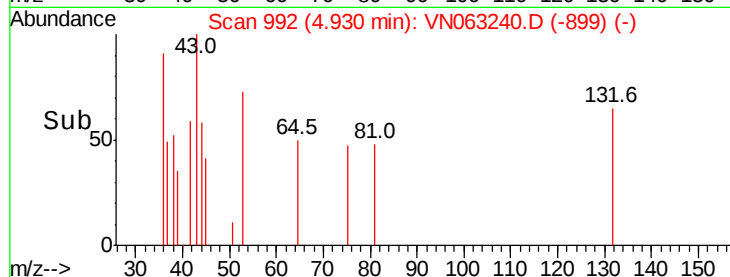


Abundance Ion 53.00 (52.70 to 53.70): VN063240.D (-966) (-)

Ion 52.00 (51.70 to 52.70): VN063240.D (-966) (-)

Ion 51.00 (50.70 to 51.70): VN063240.D (-966) (-)

Time-->



#16

Acetone

Concen: 8.432 ug/l

RT: 3.79 min Scan# 638

Delta R.T. 0.02 min

Lab File: VN063240.D

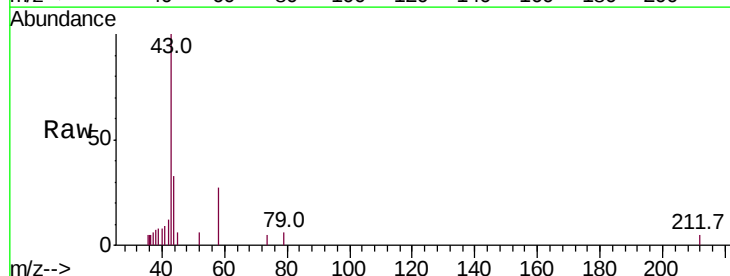
Acq: 4 Sep 2020 12:13

Tgt Ion: 43 Resp: 10221

Ion Ratio Lower Upper

43 100

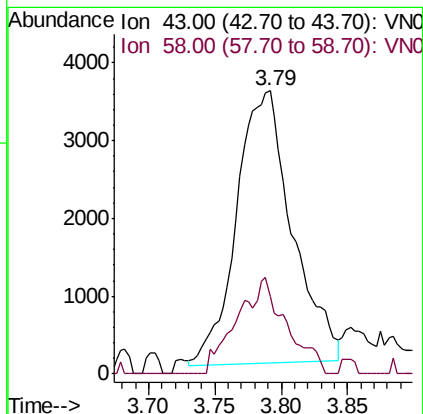
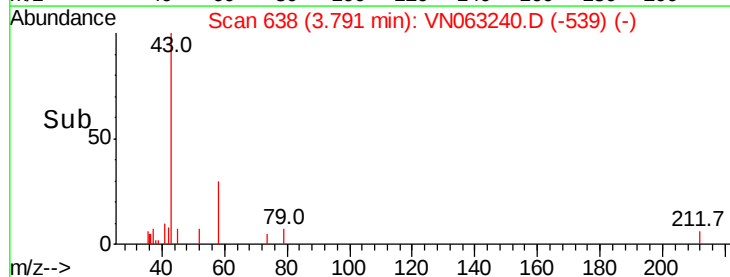
58 28.6 23.1 34.7

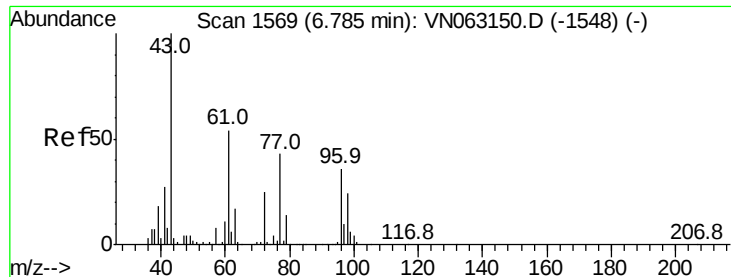


Abundance Ion 43.00 (42.70 to 43.70): VN063240.D (-539) (-)

Ion 58.00 (57.70 to 58.70): VN063240.D (-539) (-)

Time-->

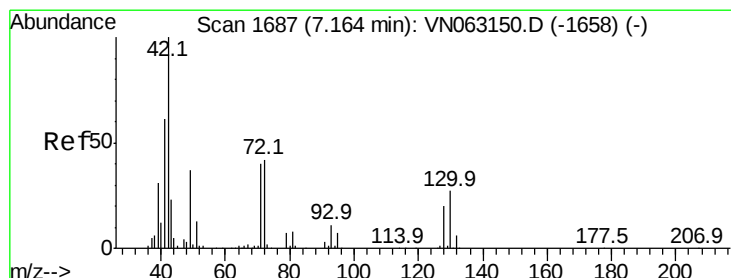
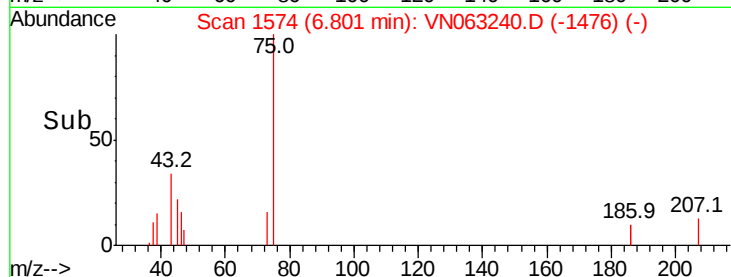
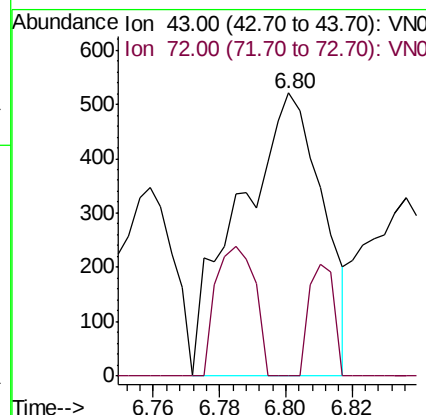
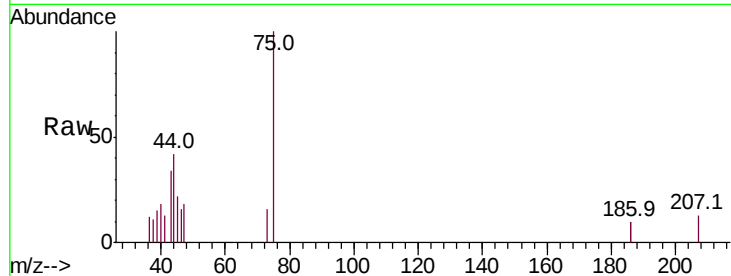




#25
 2-Butanone
 Concen: 0.486 ug/l
 RT: 6.80 min Scan# 1574
 Delta R.T. 0.02 min
 Lab File: VN063240.D
 Acq: 4 Sep 2020 12:13

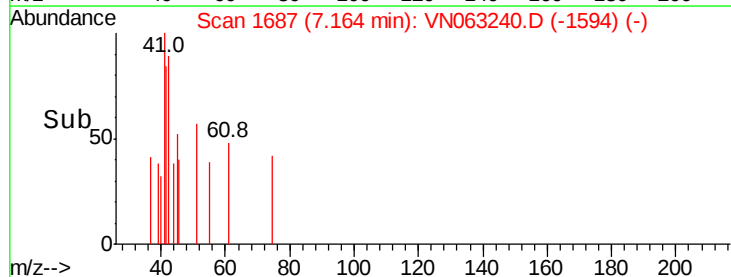
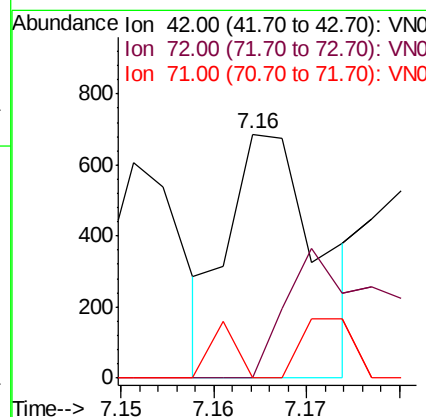
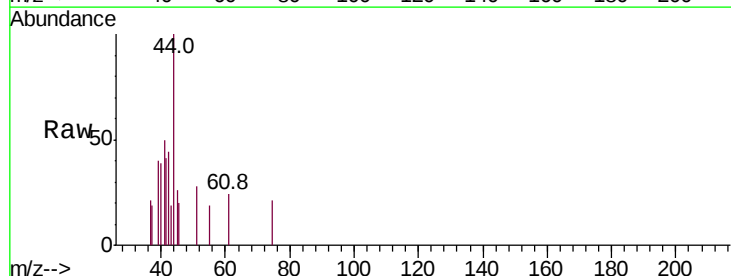
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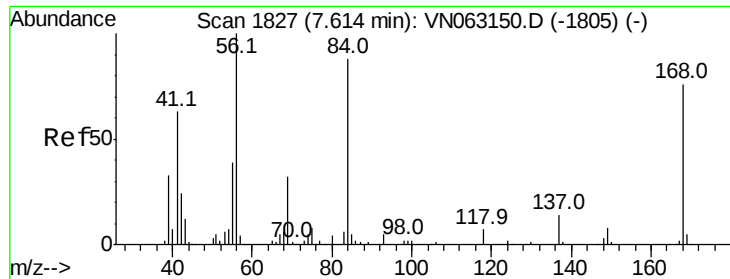
Tot Ion: 43 Resp: 913
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.2 30.4#



#29
 Tetrahydrofuran
 Concen: 0.354 ug/l
 RT: 7.16 min Scan# 1687
 Delta R.T. 0.00 min
 Lab File: VN063240.D
 Acq: 4 Sep 2020 12:13

Tgt Ion: 42 Resp: 459
 Ion Ratio Lower Upper
 42 100
 72 0.0 33.9 50.9#
 71 6.8 31.9 47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.63 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN063240.D

Acq: 4 Sep 2020 12:13

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-EB-20200902

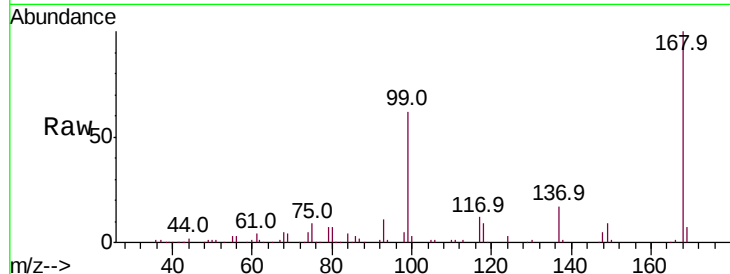
Tot Ion: 56 Resp: 7986

Ion Ratio Lower Upper

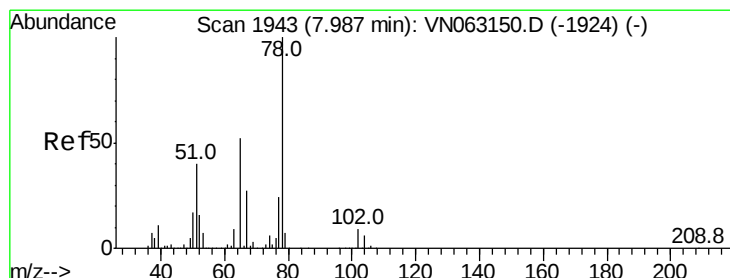
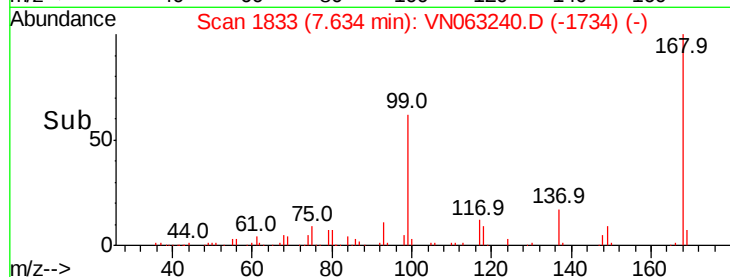
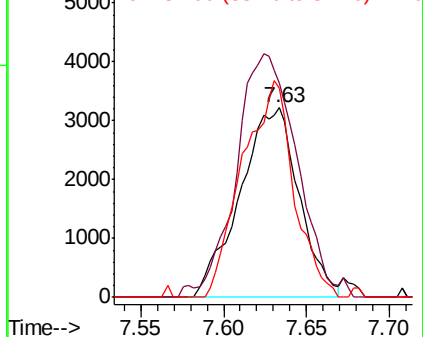
56 100

69 107.2 25.4 38.0#

84 110.3 70.2 105.4#



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



#33

1,2-Dichloroethane-d4

Concen: 48.681 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN063240.D

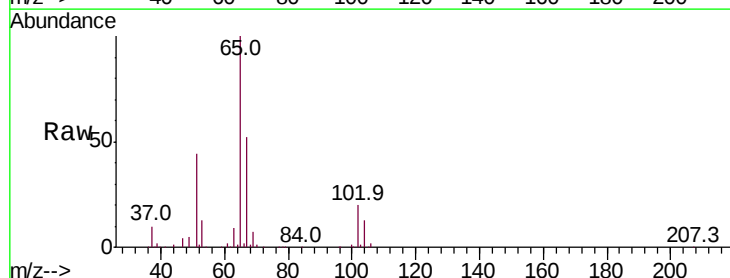
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Tgt Ion: 65 Resp: 207577

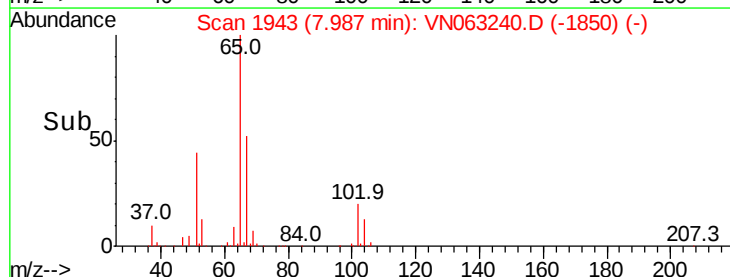
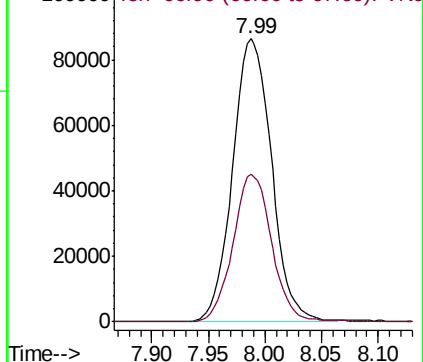
Ion Ratio Lower Upper

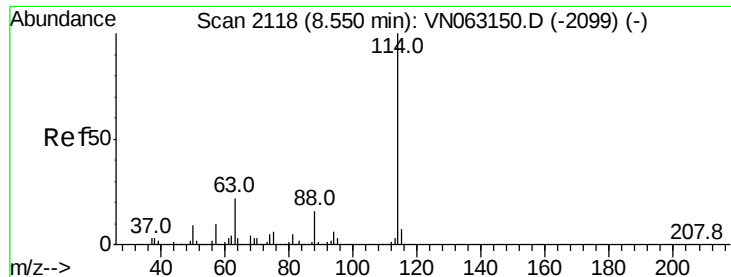
65 100

67 51.6 0.0 104.4



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

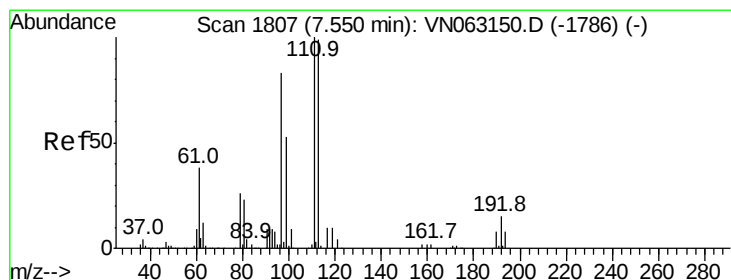
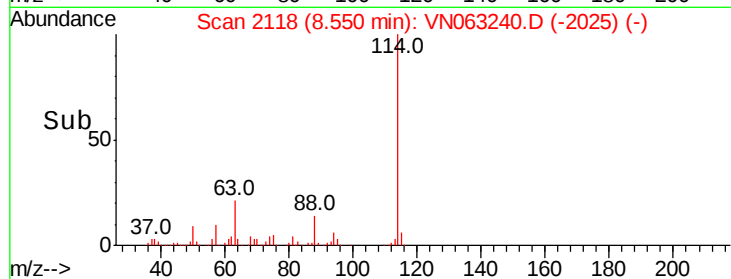
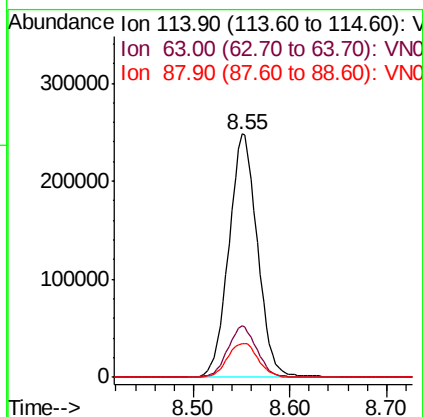
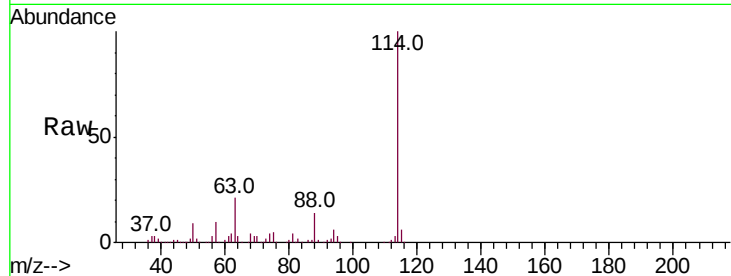




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN063240.D
Acq: 4 Sep 2020 12:13

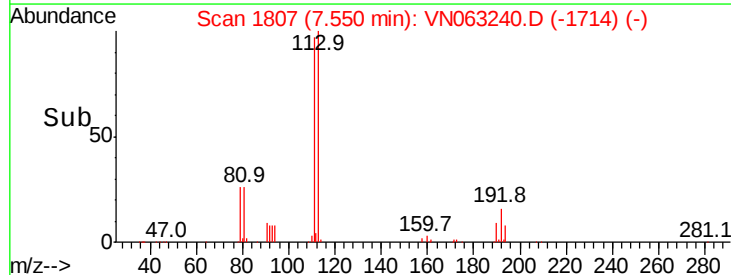
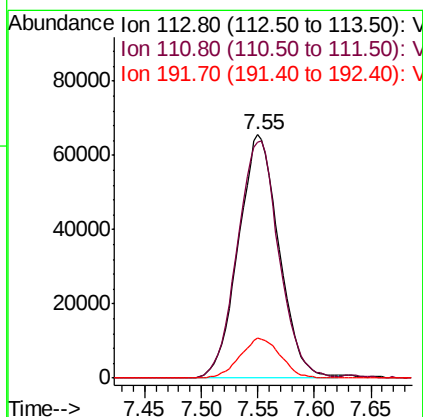
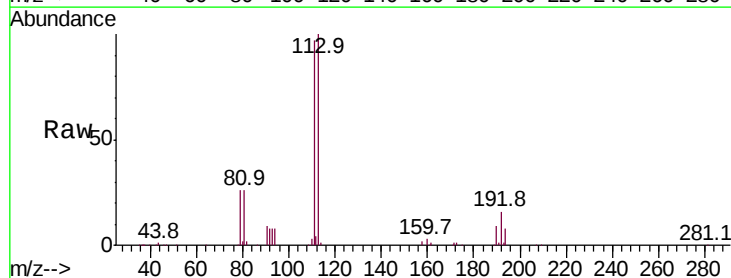
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MSVOA_N
ClientSampleId :
BP-VPB181-EB-20200902

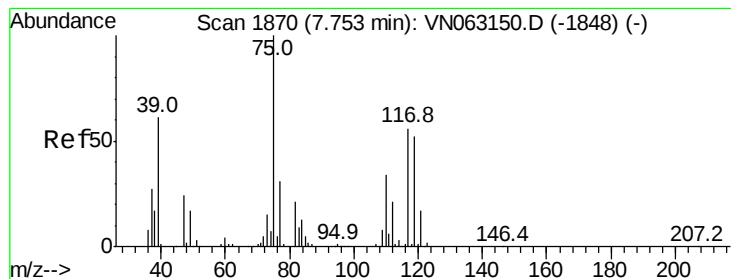
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.1	0.0	43.0
88	13.7	0.0	31.6



#35
Dibromofluoromethane
Concen: 50.150 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063240.D
Acq: 4 Sep 2020 12:13

Tgt Ion	Ratio	Lower	Upper
113	100		
111	99.8	80.7	121.1
192	16.2	12.6	19.0





#36

1,1-Dichloropropene

Concen: 4.996 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063240.D

Acq: 4 Sep 2020 12:13

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-EB-20200902

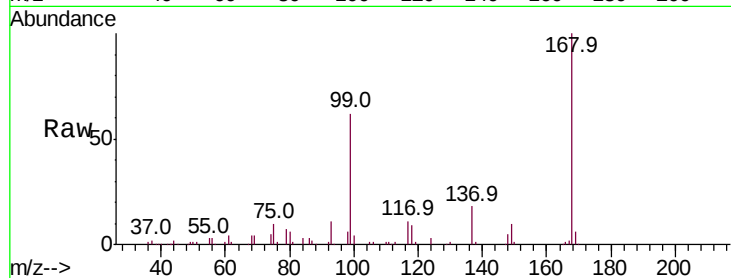
Tot Ion: 75 Resp: 24437

Ion Ratio Lower Upper

75 100

110 6.4 16.6 49.8#

77 0.8 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VN063150.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN063150.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN063150.D (-1848) (-)

7.63

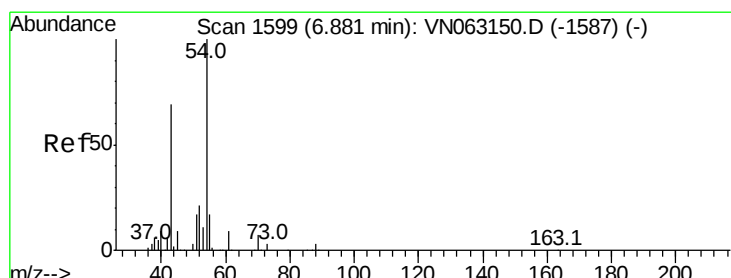
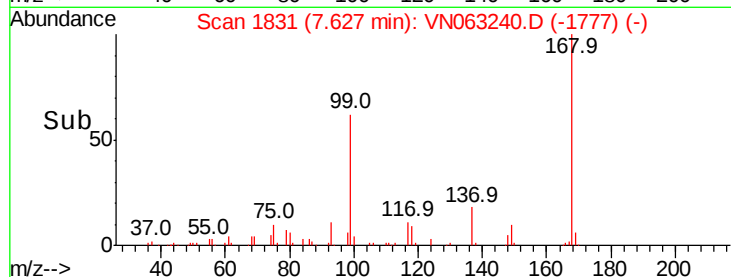
10000

5000

0

7.55 7.60 7.65 7.70

Time-->



#37

Ethyl Acetate

Concen: 0.401 ug/l

RT: 6.89 min Scan# 1602

Delta R.T. 0.01 min

Lab File: VN063240.D

Acq: 4 Sep 2020 12:13

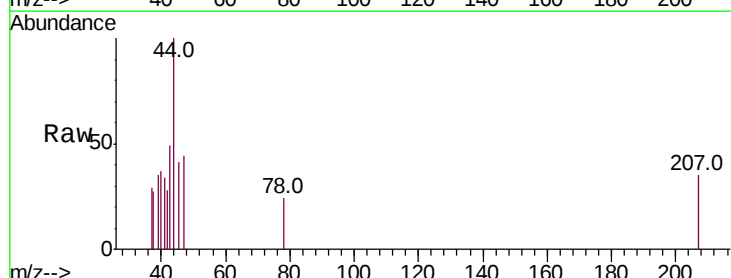
Tgt Ion: 43 Resp: 98

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.4#

70 0.0 3.0 4.6#



Abundance Ion 43.00 (42.70 to 43.70): VN063150.D (-1587) (-)

Ion 60.90 (60.60 to 61.60): VN063150.D (-1587) (-)

Ion 70.00 (69.70 to 70.70): VN063150.D (-1587) (-)

6.89

400

300

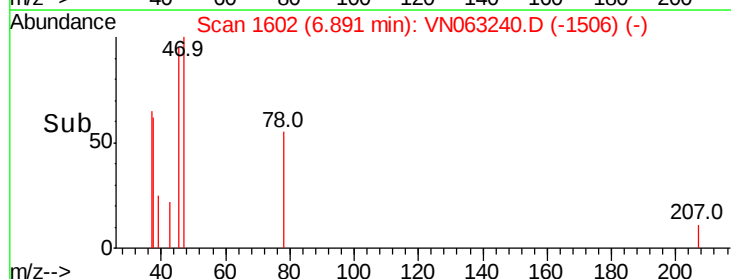
200

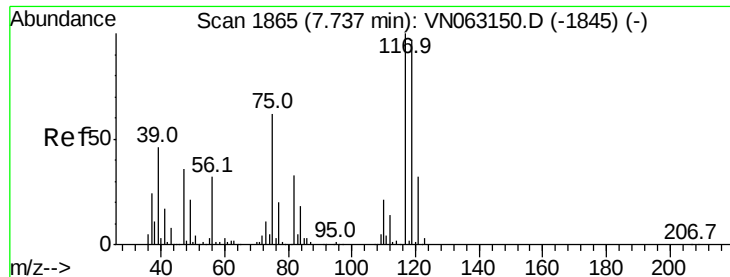
100

0

6.88 6.90 6.92

Time-->





#38

Carbon Tetrachloride

Concen: 6.070 ug/l

RT: 7.63 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN063240.D

Acq: 4 Sep 2020 12:13

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-EB-20200902

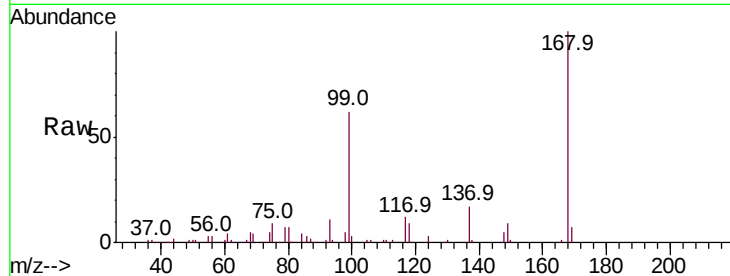
Tot Ion:117 Resp: 30111

Ion Ratio Lower Upper

117 100

119 3.1 77.2 115.8#

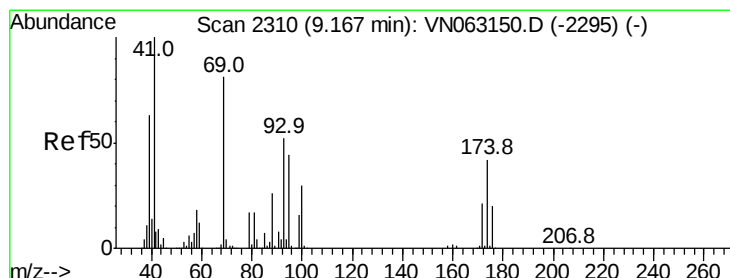
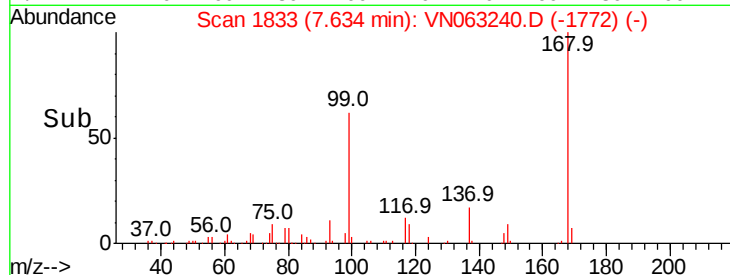
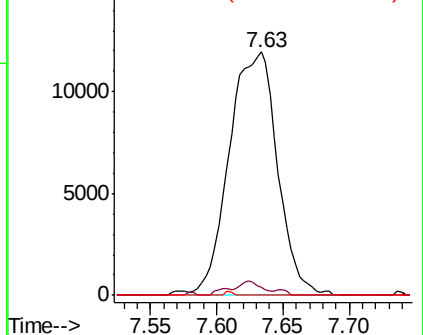
121 0.0 25.6 38.4#



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



#49

1,4-Dioxane

Concen: 1.312 ug/l

RT: 9.16 min Scan# 2308

Delta R.T. -0.01 min

Lab File: VN063240.D

Acq: 4 Sep 2020 12:13

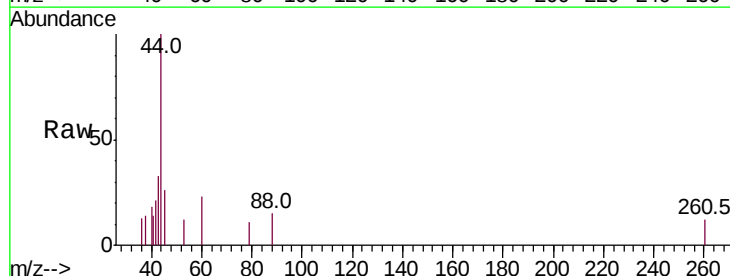
Tgt Ion: 88 Resp: 73

Ion Ratio Lower Upper

88 100

43 205.5 28.6 42.8#

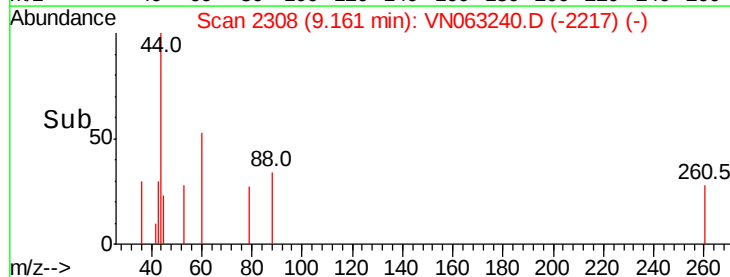
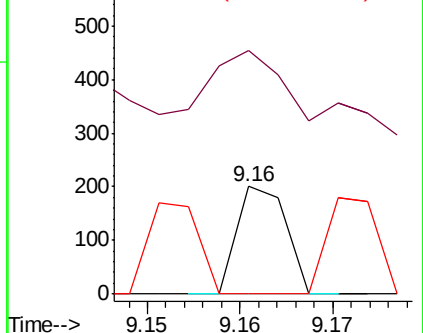
58 93.2 53.2 79.8#

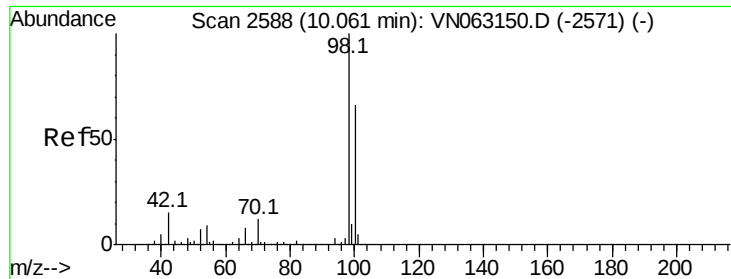


Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

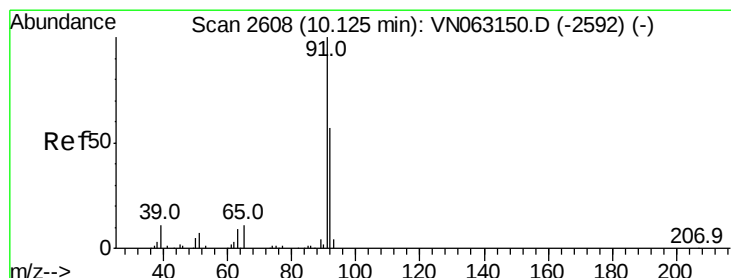
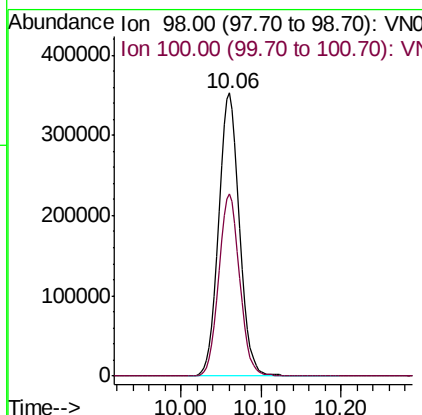
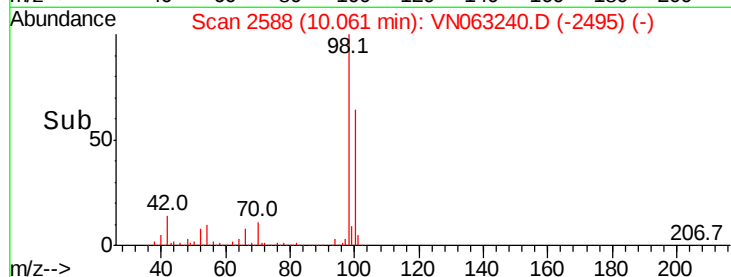
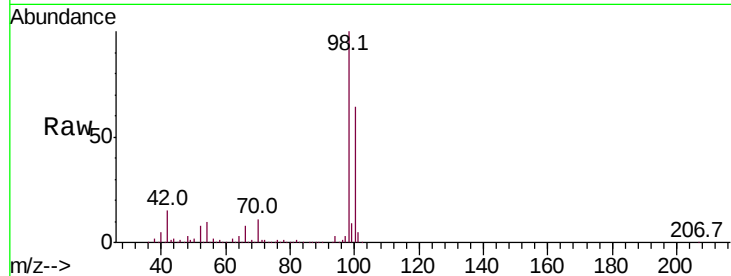




#50
Toluene-d8
Concen: 50.688 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063240.D
Acq: 4 Sep 2020 12:13

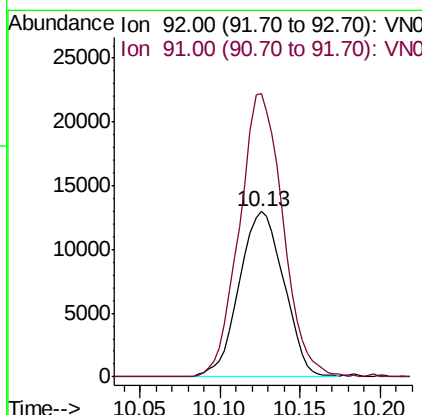
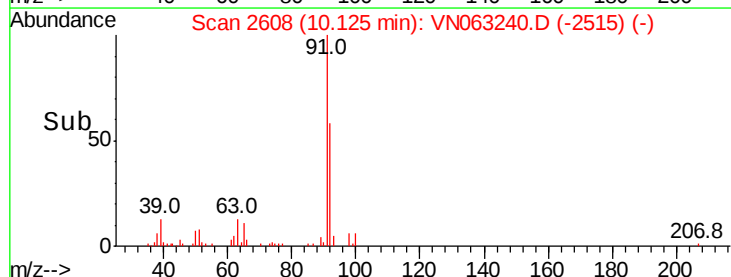
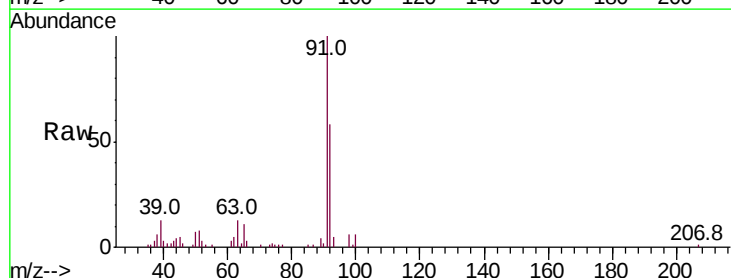
Instrument :
MSVOA_N
ClientSampleId :
BP-VPB181-EB-20200902

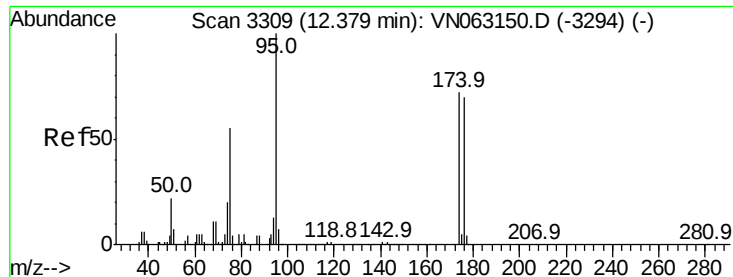
Tot Ion: 98 Resp: 636883
Ion Ratio Lower Upper
98 100
100 64.3 52.0 78.0



#52
Toluene
Concen: 2.770 ug/l
RT: 10.13 min Scan# 2608
Delta R.T. 0.00 min
Lab File: VN063240.D
Acq: 4 Sep 2020 12:13

Tgt Ion: 92 Resp: 24807
Ion Ratio Lower Upper
92 100
91 166.8 141.2 211.8





#62

4-Bromofluorobenzene

Concen: 49.200 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063240.D

Acq: 4 Sep 2020 12:13

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-EB-20200902

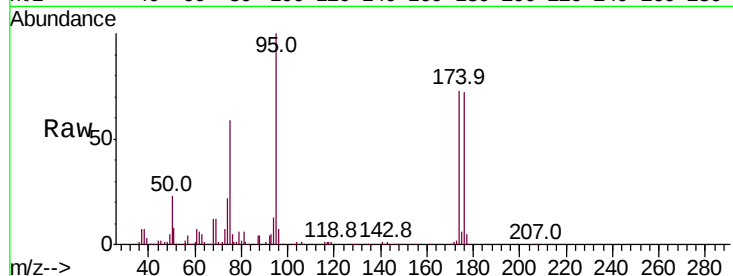
Tot Ion: 95 Resp: 216243

Ion Ratio Lower Upper

95 100

174 74.8 0.0 143.8

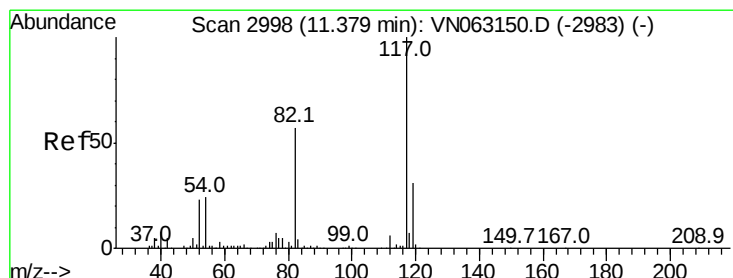
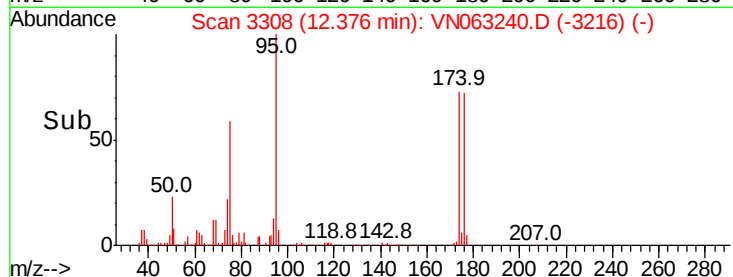
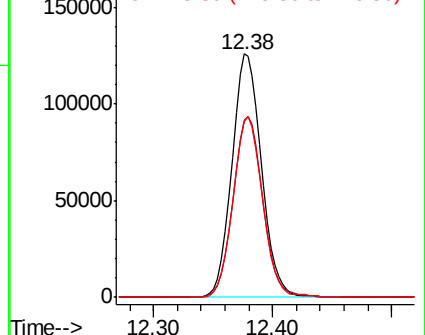
176 74.0 0.0 138.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063240.D

Acq: 4 Sep 2020 12:13

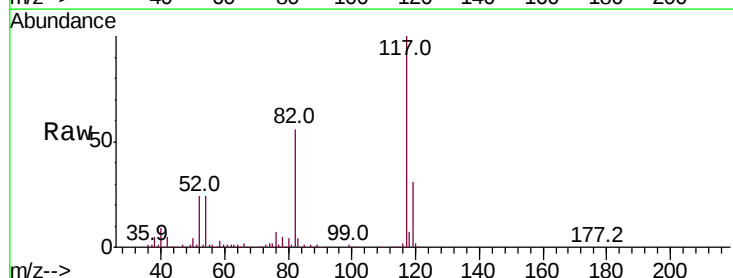
Tgt Ion: 117 Resp: 496468

Ion Ratio Lower Upper

117 100

82 56.5 45.4 68.0

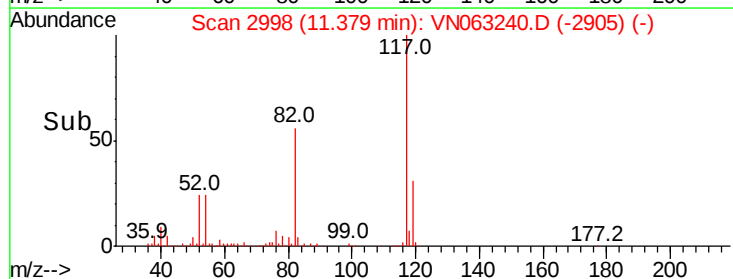
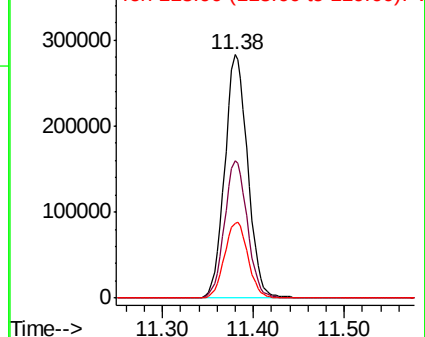
119 30.8 24.6 37.0

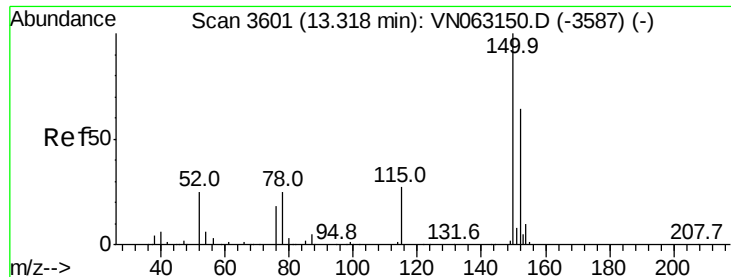


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN063240.D

Acq: 4 Sep 2020 12:13

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-EB-20200902

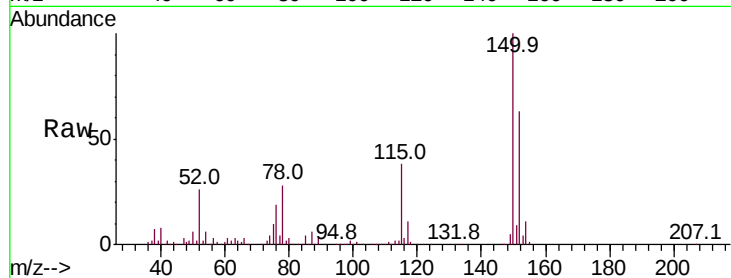
Tot Ion:152 Resp: 194570

Ion Ratio Lower Upper

152 100

115 61.3 32.0 96.2

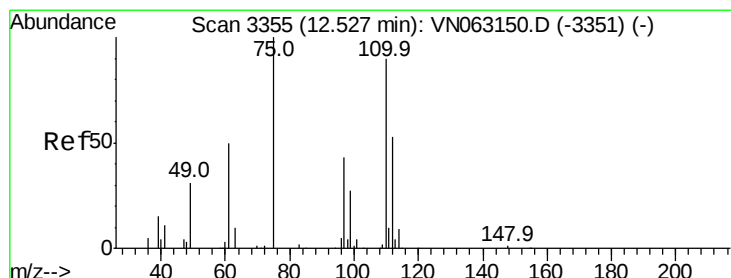
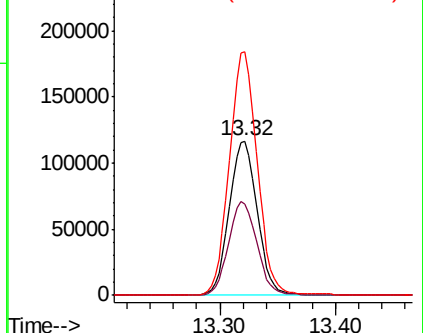
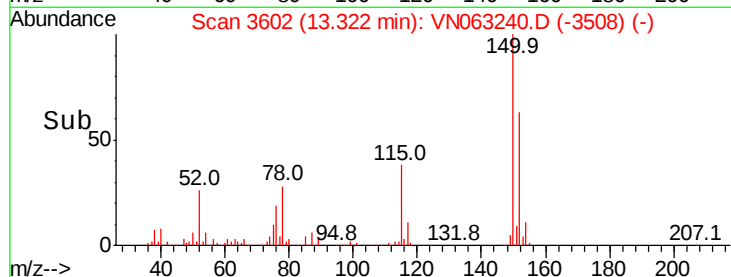
150 157.4 0.0 353.0



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: 33.474 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063240.D

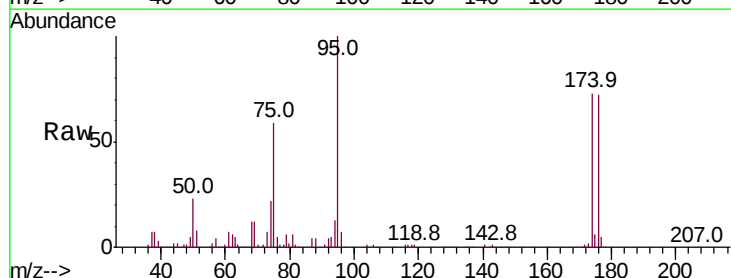
Acq: 4 Sep 2020 12:13

Tgt Ion: 75 Resp: 127968

Ion Ratio Lower Upper

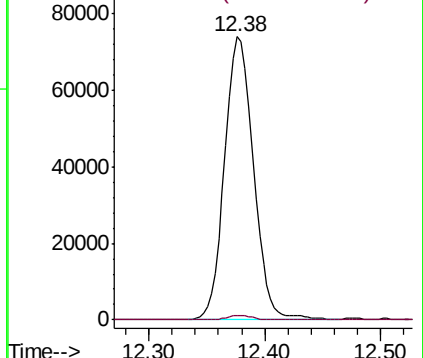
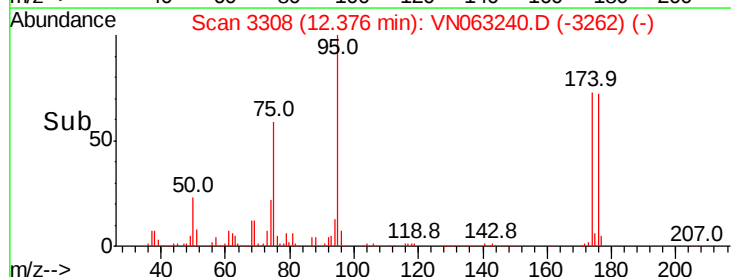
75 100

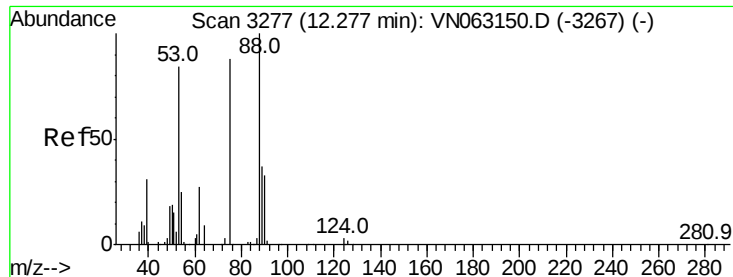
77 1.3 0.0 0.0#



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: 80.906 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063240.D

Acq: 4 Sep 2020 12:13

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB181-EB-20200902

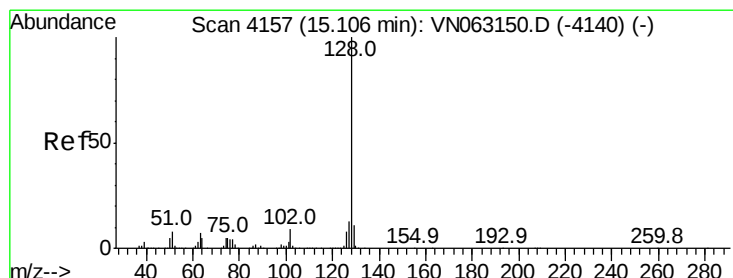
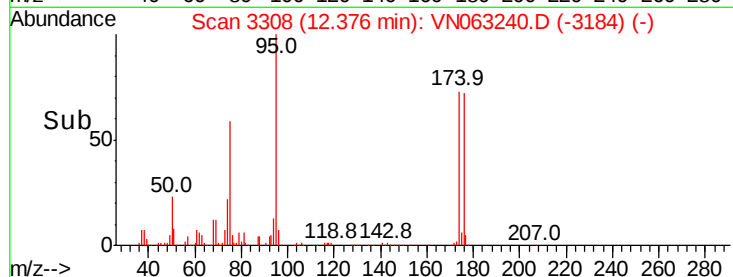
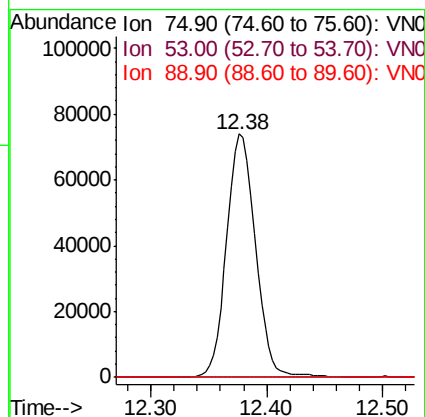
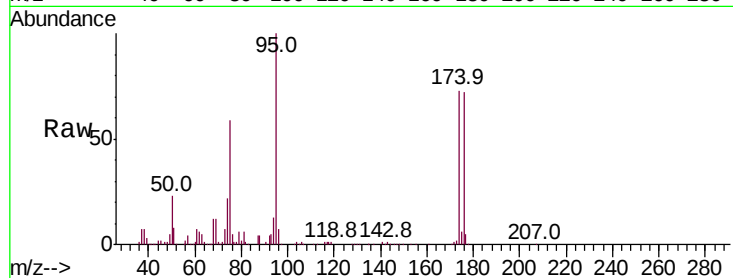
Tot Ion: 75 Resp: 127968

Ion Ratio Lower Upper

75 100

53 0.1 78.7 118.1#

89 0.0 35.3 52.9#



#95

Naphthalene

Concen: 0.350 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN063240.D

Acq: 4 Sep 2020 12:13

Tgt Ion: 128 Resp: 3928

Ion Ratio Lower Upper

128 100

127 13.8 10.5 15.7

129 5.6 8.6 13.0#

