

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090320\
 Data File : VN063230.D
 Acq On : 3 Sep 2020 19:12
 Operator : JC/MD
 Sample : L3902-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ145I-20200901

Quant Time: Sep 04 04:06:12 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	282749	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	547510	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	553589	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	212825	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	225042	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
35) Dibromofluoromethane	7.55	113	172256	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
50) Toluene-d8	10.06	98	697840	51.62	ug/l	0.00
Spiked Amount			Recovery	=	103.24%	
62) 4-Bromofluorobenzene	12.38	95	238274	50.38	ug/l	0.00
Spiked Amount			Recovery	=	100.76%	

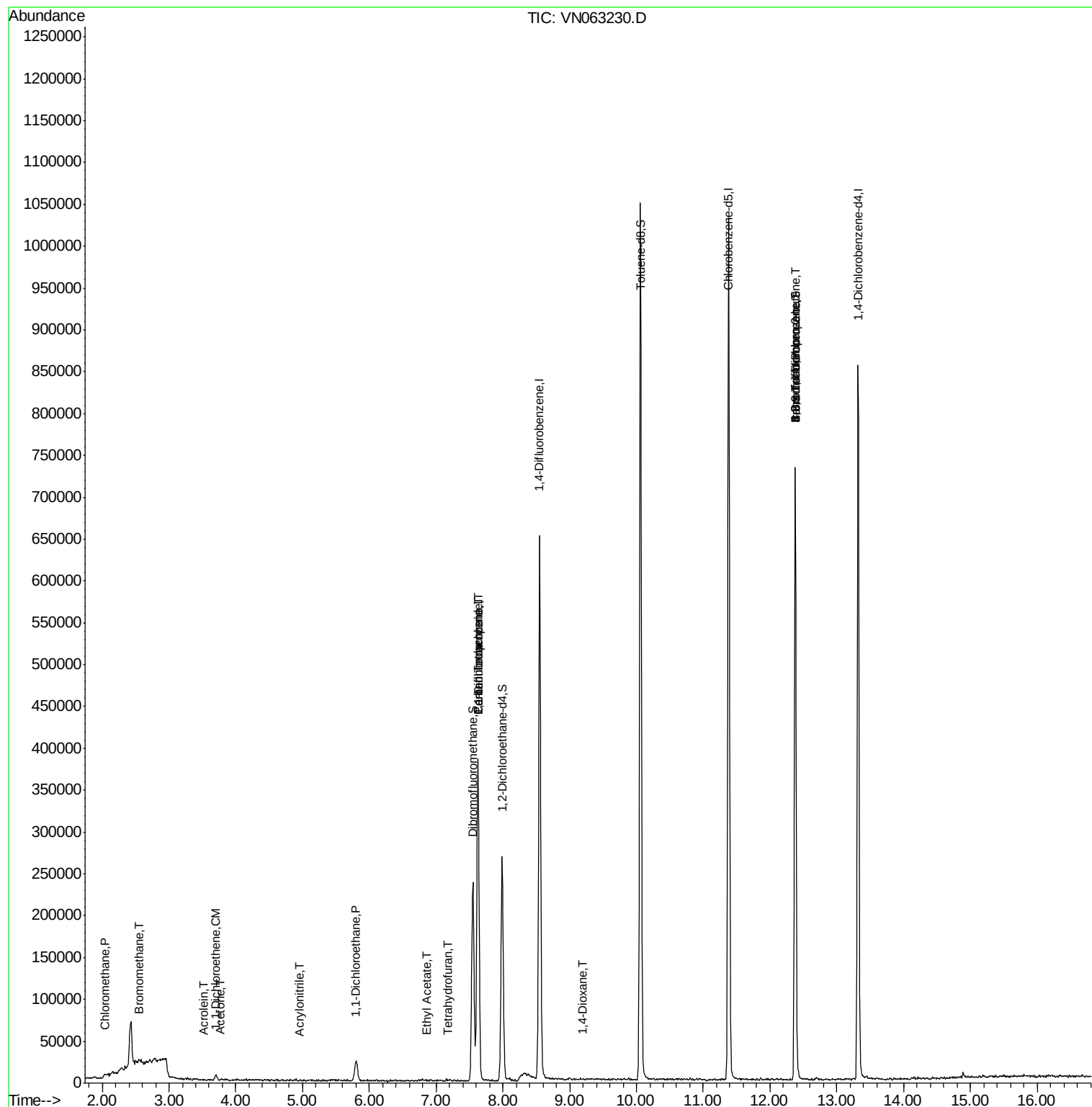
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1586	0.391	ug/l #	55
5) Bromomethane	2.55	94	904	0.240	ug/l #	52
7) Trichlorofluoromethane	2.92	101	29	Below Cal	#	33
12) 1,1-Dichloroethene	3.70	96	2975	0.959	ug/l #	73
13) Acrolein	3.53	56	124	16.307	ug/l #	15
15) Acrylonitrile	4.96	53	197	2.527	ug/l #	86
16) Acetone	3.78	43	541	0.412	ug/l #	46
20) Methylene Chloride	4.49	84	154	Below Cal	#	56
24) 1,1-Dichloroethane	5.81	63	34010	4.997	ug/l	98
29) Tetrahydrofuran	7.18	42	627	0.446	ug/l #	34
31) Cyclohexane	7.62	56	8438	Below Cal	#	35
36) 1,1-Dichloropropene	7.62	75	26753	5.083	ug/l #	44
37) Ethyl Acetate	6.87	43	491	0.478	ug/l #	72
38) Carbon Tetrachloride	7.62	117	30535	5.720	ug/l #	17
49) 1,4-Dioxane	9.18	88	68	1.136	ug/l #	1
71) Bromoform	12.37	173	571	0.203	ug/l #	28
76) 1,2,3-Trichloropropane	12.38	75	140284	33.548	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	140284	81.085	ug/l #	10

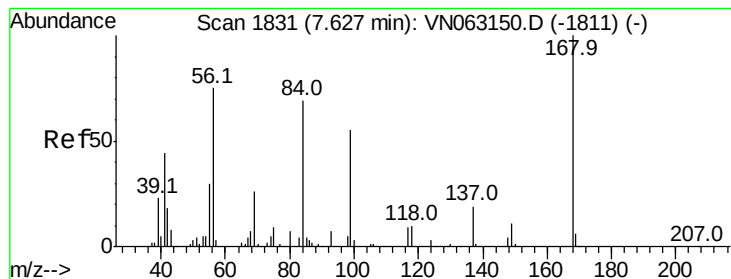
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063230.D

Acq: 3 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

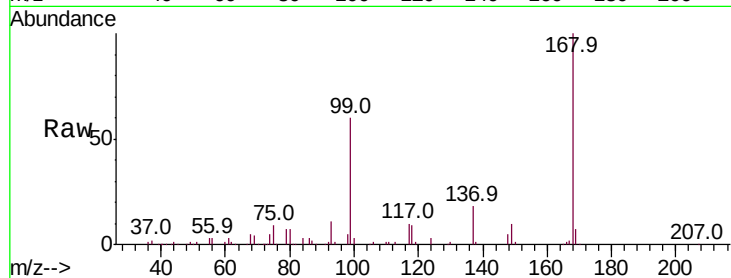
SA-PZ145I-20200901

Tot Ion:168 Resp: 282749

Ion Ratio Lower Upper

168 100

99 59.9 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

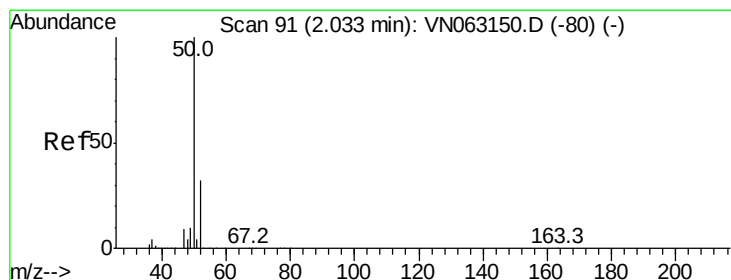
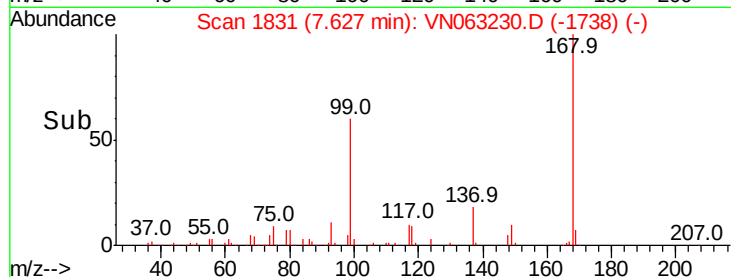
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.391 ug/l

RT: 2.03 min Scan# 91

Delta R.T. 0.00 min

Lab File: VN063230.D

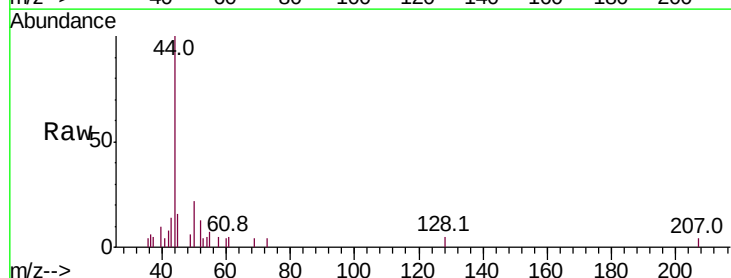
Acq: 3 Sep 2020 19:12

Tgt Ion: 50 Resp: 1586

Ion Ratio Lower Upper

50 100

52 57.1 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.03

1000

800

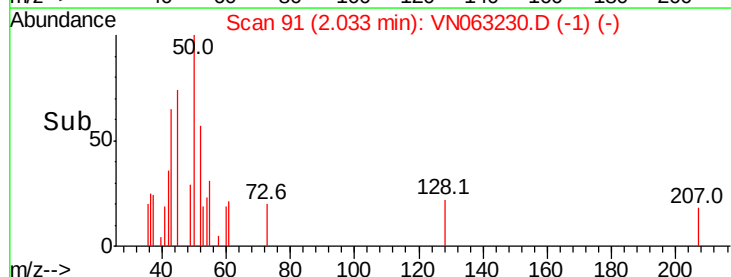
600

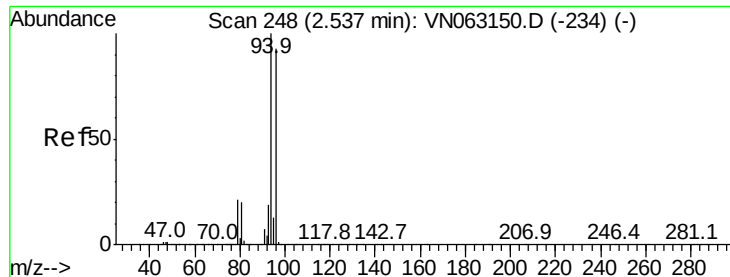
400

200

0

Time--> 2.00 2.05





#5

Bromomethane

Concen: 0.240 ug/l

RT: 2.55 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN063230.D

Acq: 3 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

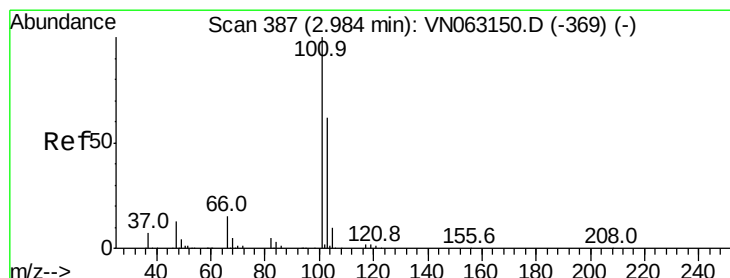
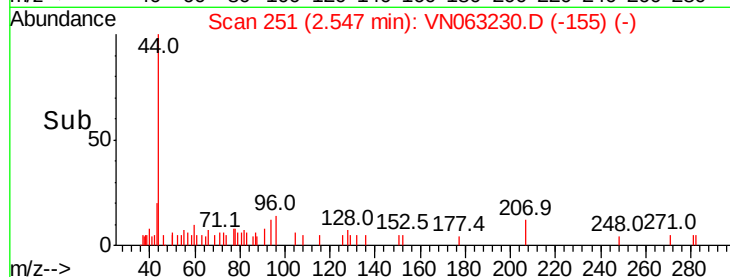
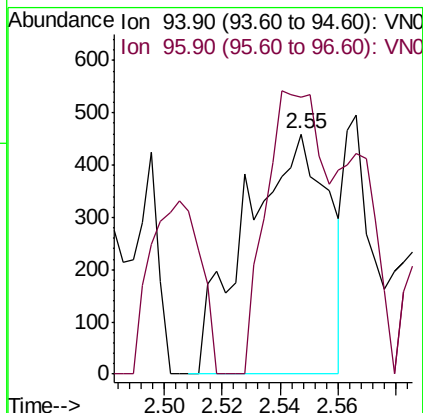
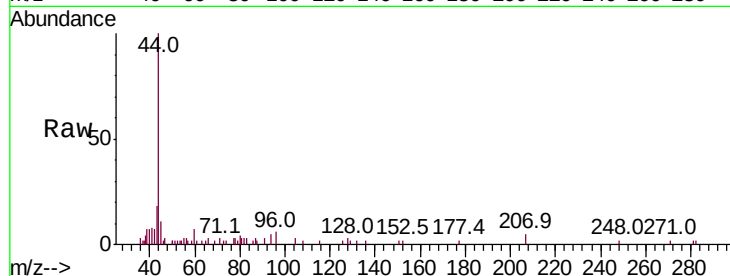
SA-PZ145I-20200901

Tot Ion: 94 Resp: 904

Ion Ratio Lower Upper

94 100

96 47.4 74.4 111.6#



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.92 min Scan# 366

Delta R.T. -0.07 min

Lab File: VN063230.D

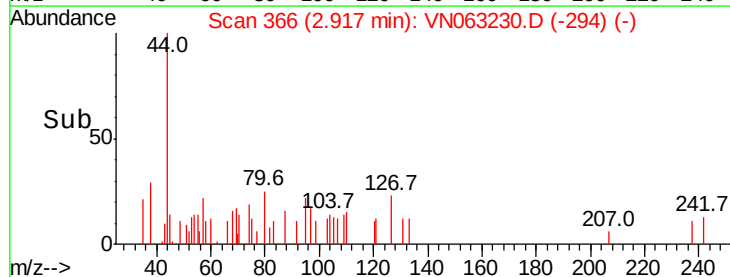
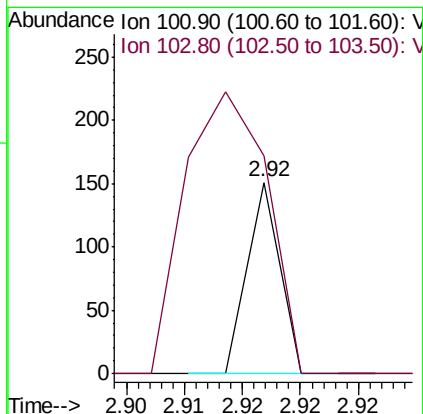
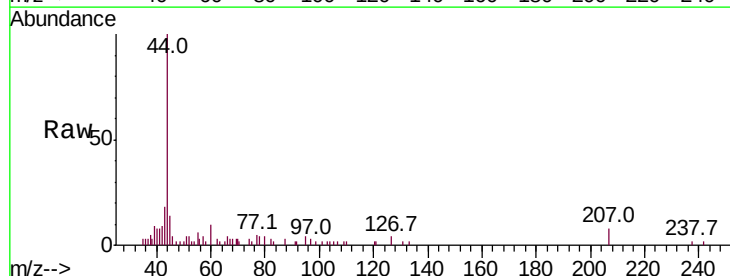
Acq: 3 Sep 2020 19:12

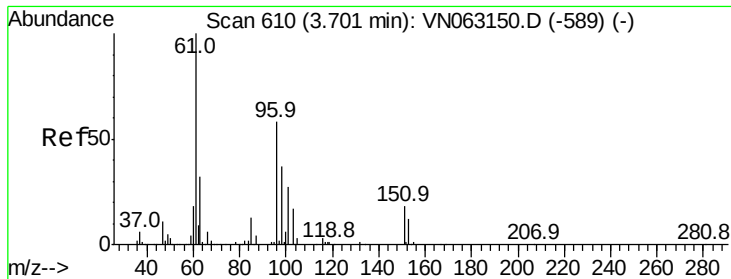
Tgt Ion: 101 Resp: 29

Ion Ratio Lower Upper

101 100

103 113.9 49.7 74.5#





#12

1,1-Dichloroethene

Concen: 0.959 ug/l

RT: 3.70 min Scan# 610

Delta R.T. 0.00 min

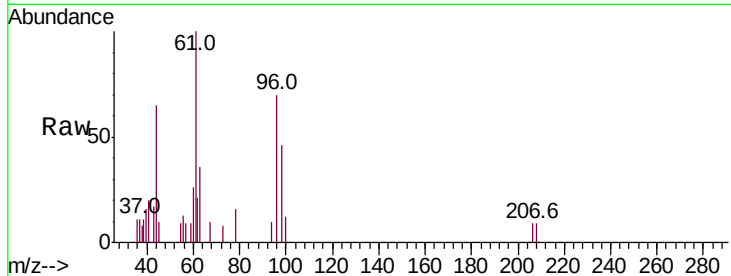
Lab File: VN063230.D

Acq: 3 Sep 2020 19:12

Instrument :
MSVOA_N
ClientSampleId :
SA-PZ145I-20200901

Tot Ion: 96 Resp: 2975

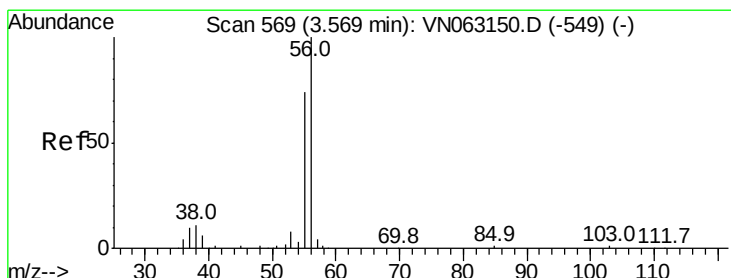
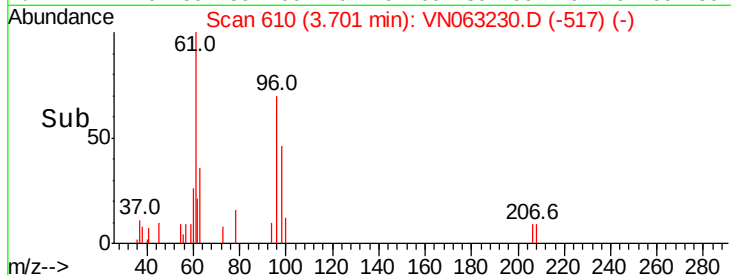
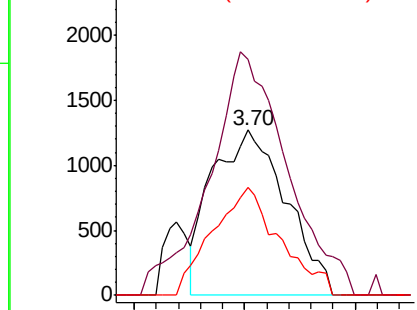
Ion	Ratio	Lower	Upper
96	100		
61	121.4	137.4	206.2#
98	65.3	50.5	75.7



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#13

Acrolein

Concen: 16.307 ug/l

RT: 3.53 min Scan# 557

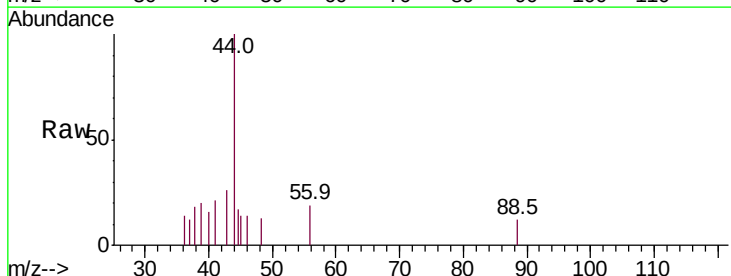
Delta R.T. -0.04 min

Lab File: VN063230.D

Acq: 3 Sep 2020 19:12

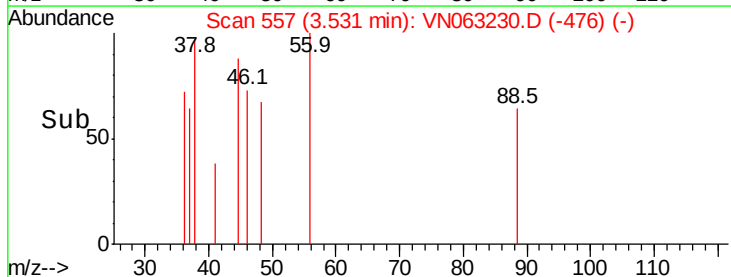
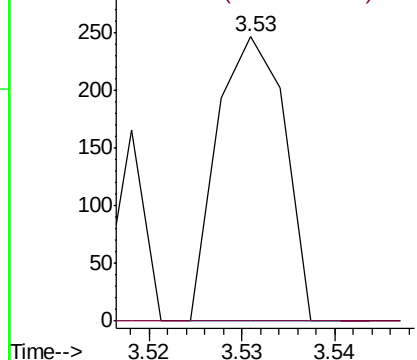
Tgt Ion: 56 Resp: 124

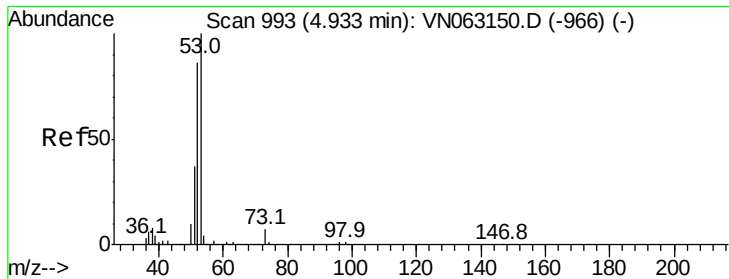
Ion	Ratio	Lower	Upper
56	100		
55	0.0	55.4	83.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#15

Acrylonitrile

Concen: 2.527 ug/l

RT: 4.96 min Scan# 1000

Delta R.T. 0.02 min

Lab File: VN063230.D

Acq: 3 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145I-20200901

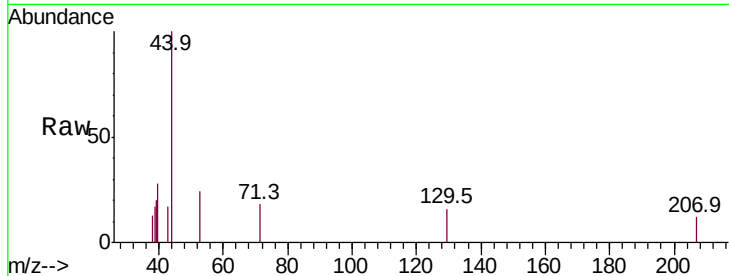
Tot Ion: 53 Resp: 197

Ion Ratio Lower Upper

53 100

52 79.7 67.2 100.8

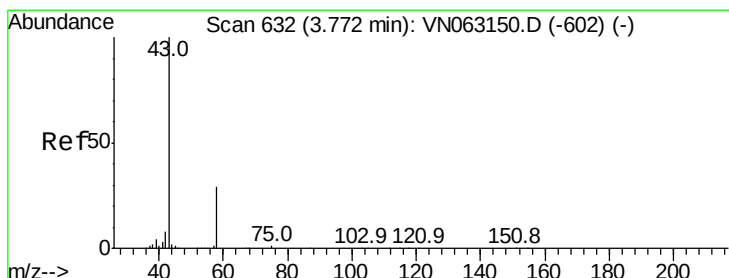
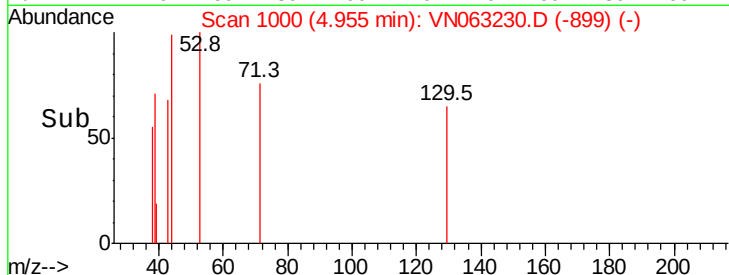
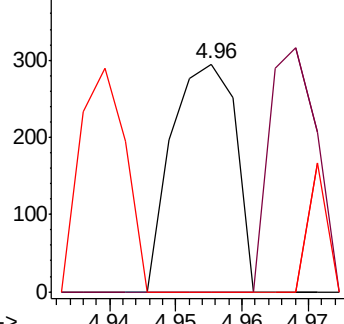
51 16.2 30.2 45.4#



Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



#16

Acetone

Concen: 0.412 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN063230.D

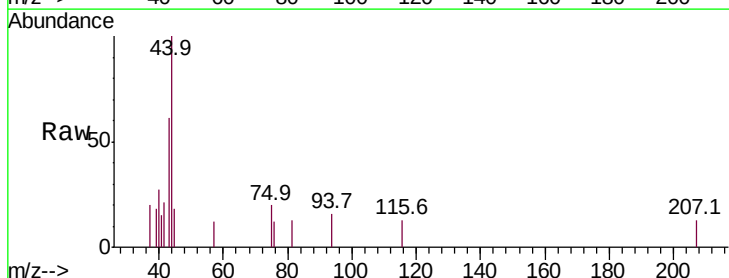
Acq: 3 Sep 2020 19:12

Tgt Ion: 43 Resp: 541

Ion Ratio Lower Upper

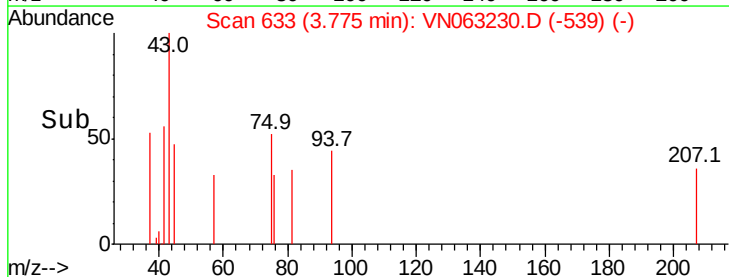
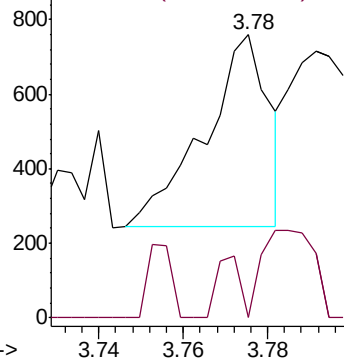
43 100

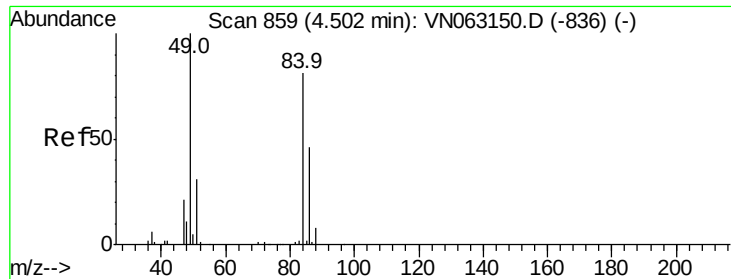
58 0.0 23.1 34.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



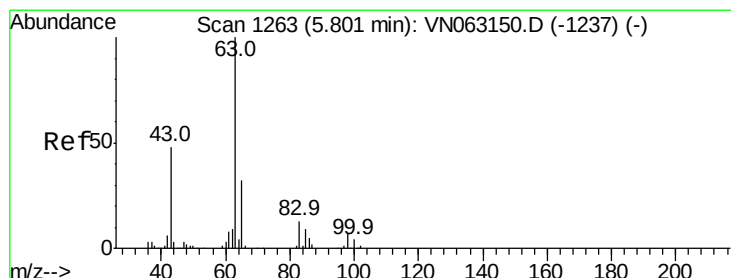
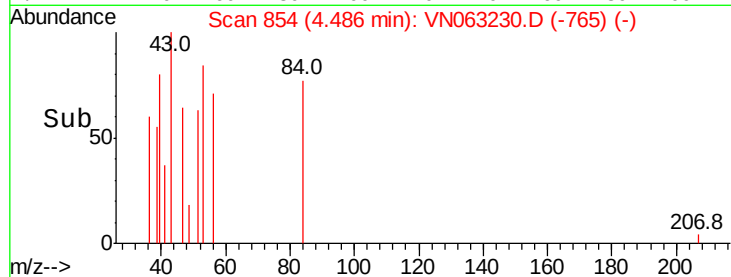
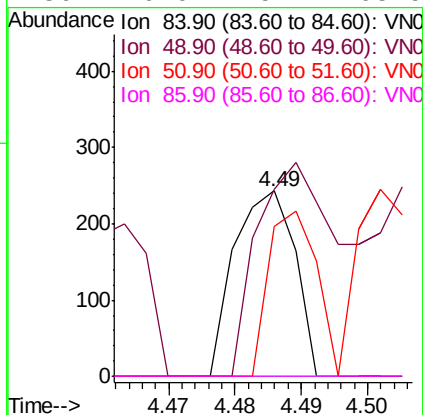
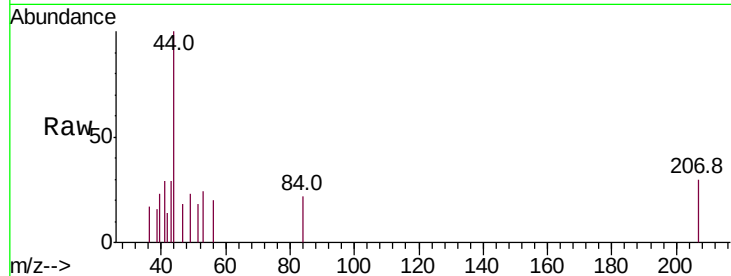


#20

Methylene Chloride
 Concen: Below Cal
 RT: 4.49 min Scan# 854
 Delta R.T. -0.02 min
 Lab File: VN063230.D
 Acq: 3 Sep 2020 19:12

Instrument :
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 SA-PZ145I-20200901

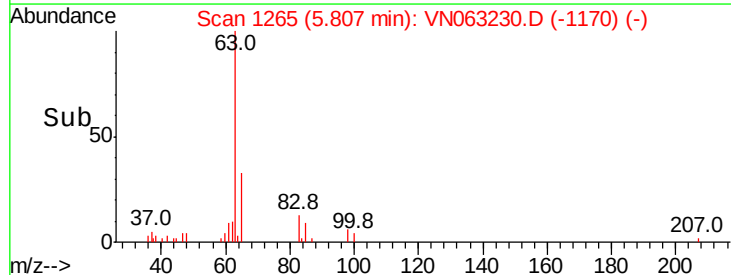
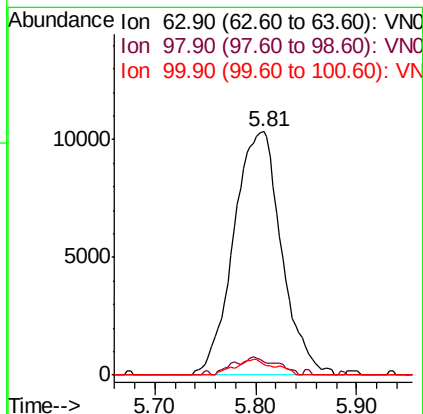
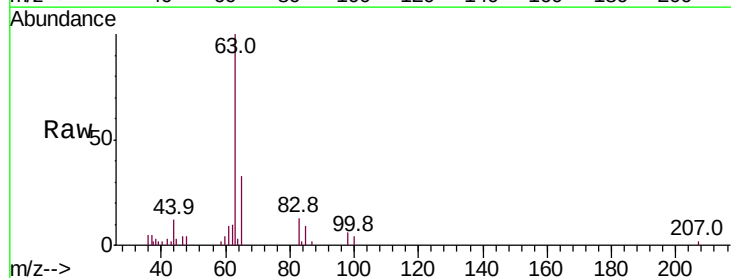
Tot Ion:	84	Resp:	154
Ion	Ratio	Lower	Upper
84	100		
49	101.2	98.4	147.6
51	81.1	30.4	45.6#
86	0.0	45.7	68.5#

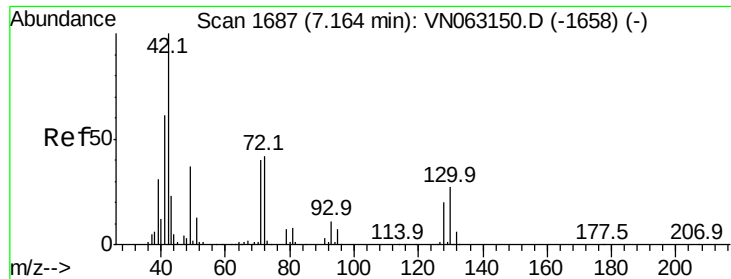


#24

1,1-Dichloroethane
 Concen: 4.997 ug/l
 RT: 5.81 min Scan# 1265
 Delta R.T. 0.01 min
 Lab File: VN063230.D
 Acq: 3 Sep 2020 19:12

Tgt Ion:	63	Resp:	34010
Ion	Ratio	Lower	Upper
63	100		
98	5.6	3.4	10.1
100	4.5	2.3	6.8





#29

Tetrahydrofuran

Concen: 0.446 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN063230.D

Acq: 3 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145I-20200901

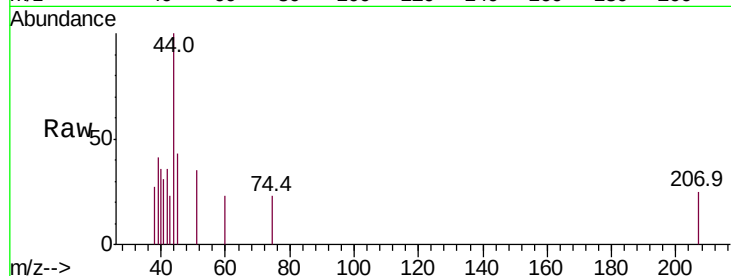
Tot Ion: 42 Resp: 627

Ion Ratio Lower Upper

42 100

72 0.0 33.9 50.9#

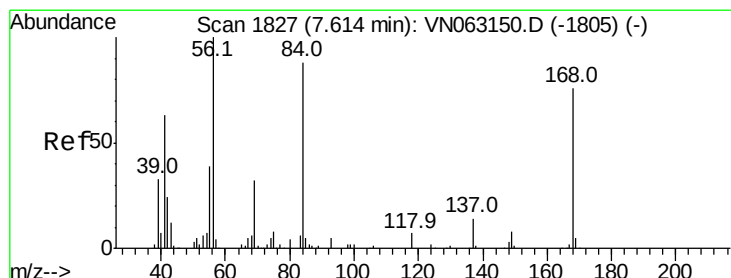
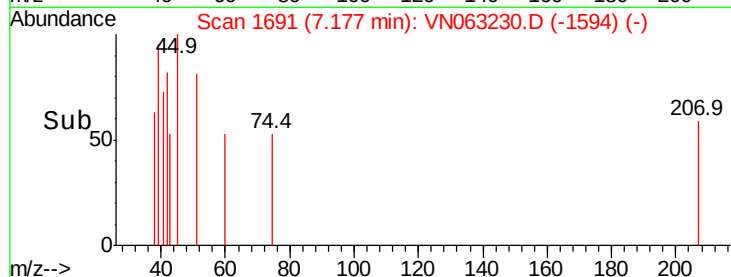
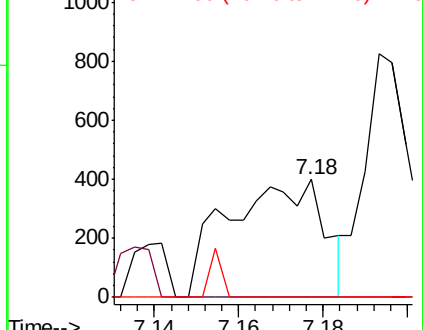
71 0.0 31.9 47.9#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063230.D

Acq: 3 Sep 2020 19:12

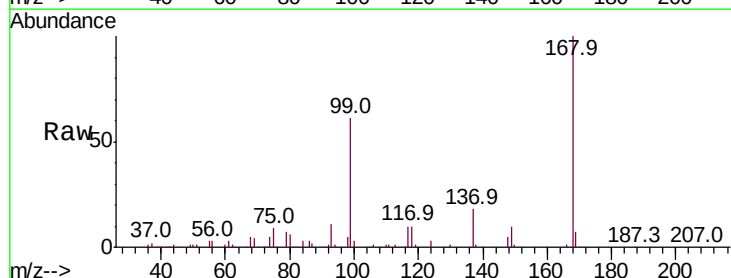
Tgt Ion: 56 Resp: 8438

Ion Ratio Lower Upper

56 100

69 134.7 25.4 38.0#

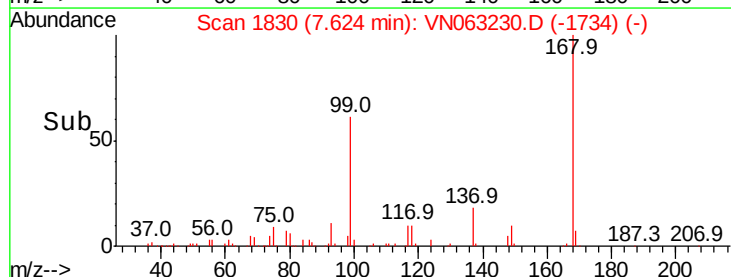
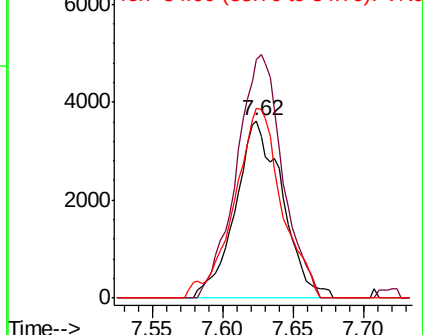
84 107.3 70.2 105.4#

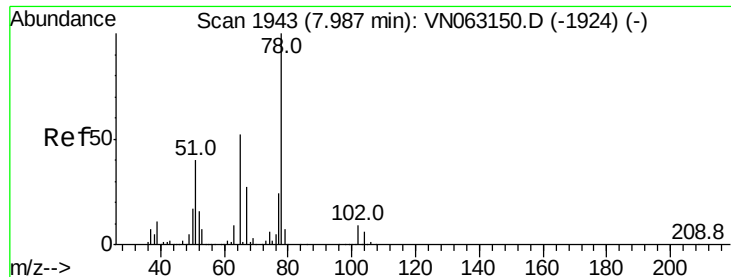


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 48.688 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

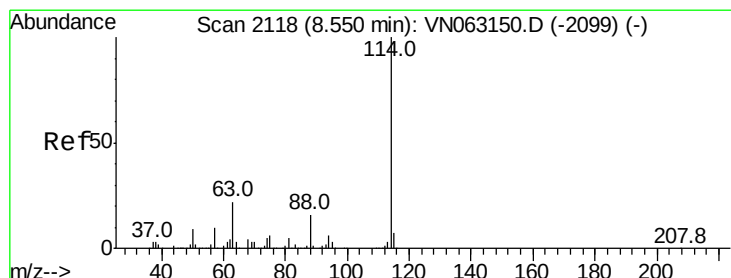
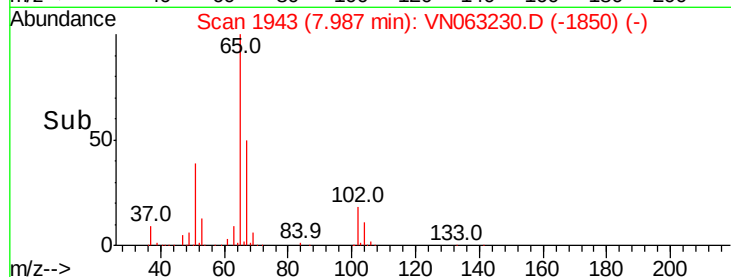
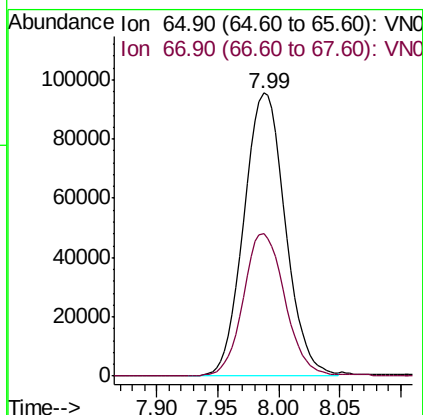
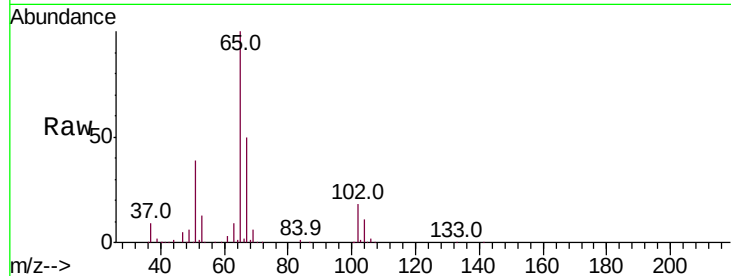
Lab File: VN063230.D

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Tot Ion: 65 Resp: 225042

Ion	Ratio	Lower	Upper
65	100		
67	50.6	0.0	104.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

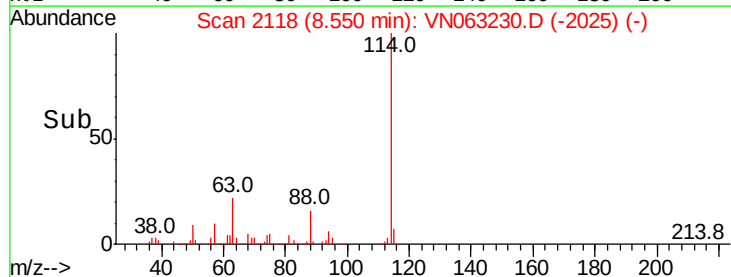
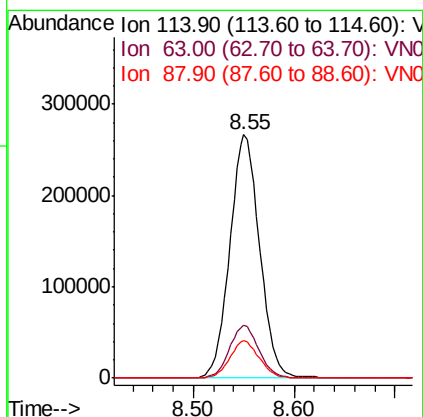
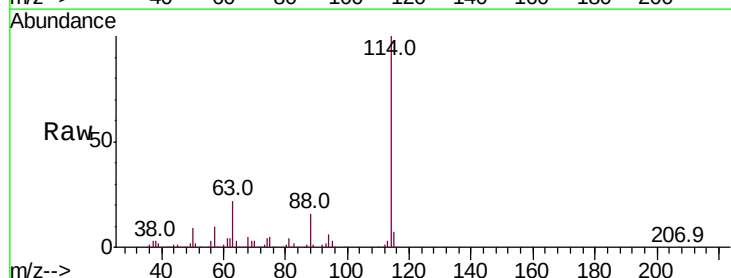
Delta R.T. 0.00 min

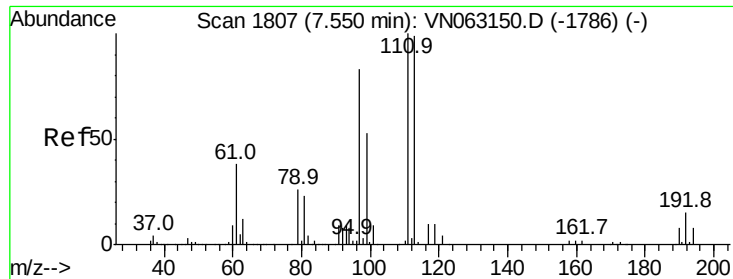
Lab File: VN063230.D

Acq: 3 Sep 2020 19:12

Tgt Ion: 114 Resp: 547510

Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	43.0
88	15.5	0.0	31.6

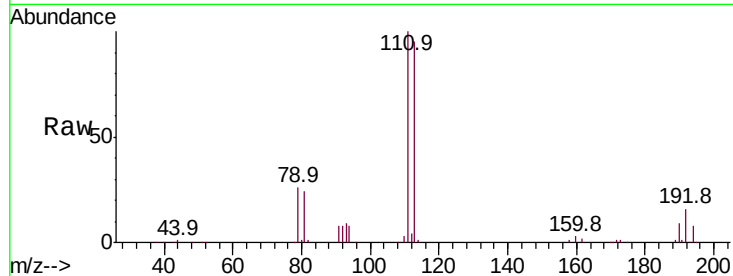




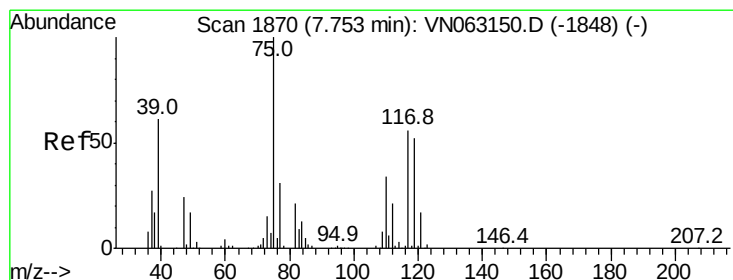
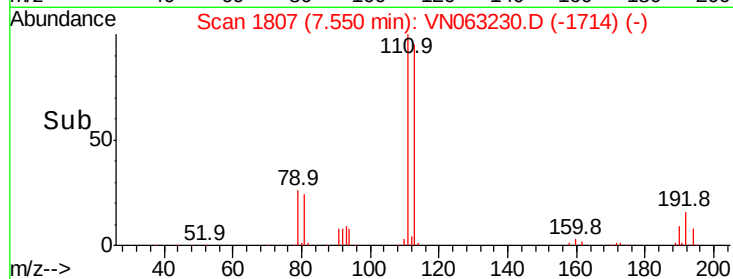
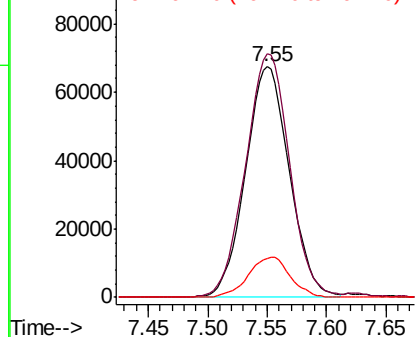
#35
Dibromofluoromethane
Concen: 49.040 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063230.D
Acq: 3 Sep 2020 19:12

Instrument :
MSVOA_N
ClientSampleId :
SA-PZ145I-20200901

Tot Ion:113 Resp: 172256
Ion Ratio Lower Upper
113 100
111 106.2 80.7 121.1
192 16.8 12.6 19.0

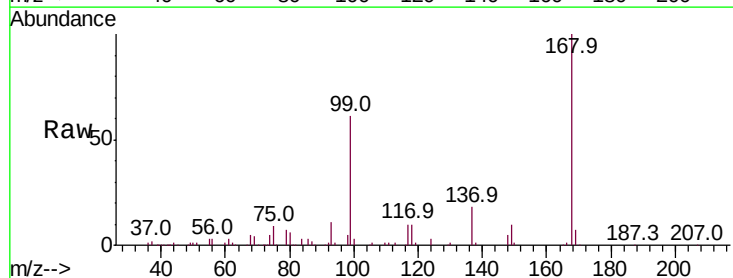


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

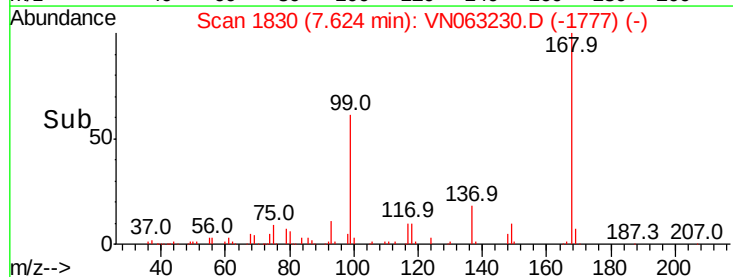
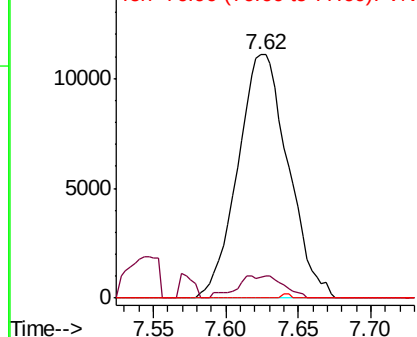


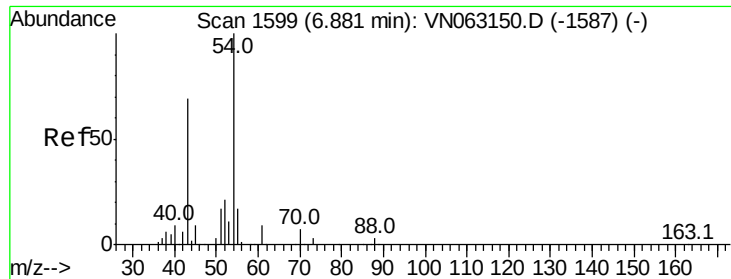
#36
1,1-Dichloropropene
Concen: 5.083 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.13 min
Lab File: VN063230.D
Acq: 3 Sep 2020 19:12

Tgt Ion: 75 Resp: 26753
Ion Ratio Lower Upper
75 100
110 2.2 16.6 49.8#
77 0.0 25.4 38.2#



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





#37

Ethyl Acetate

Concen: 0.478 ug/l

RT: 6.87 min Scan# 1595

Delta R.T. -0.01 min

Lab File: VN063230.D

Acq: 3 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145I-20200901

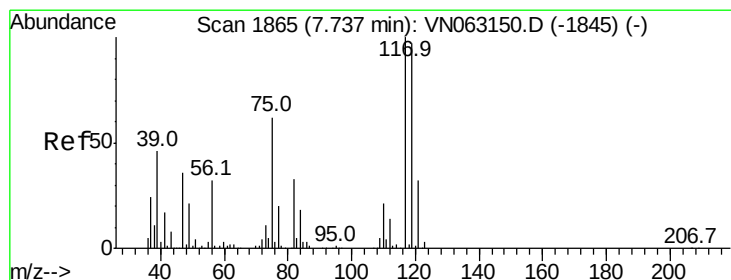
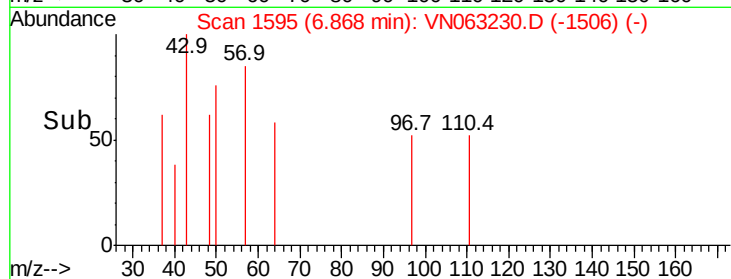
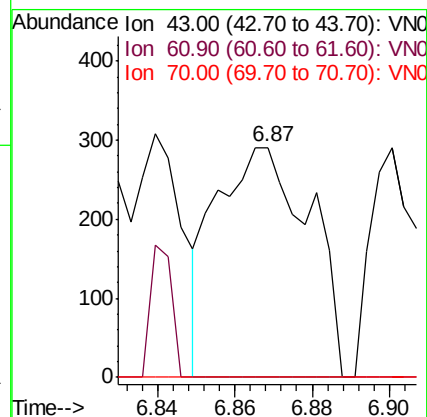
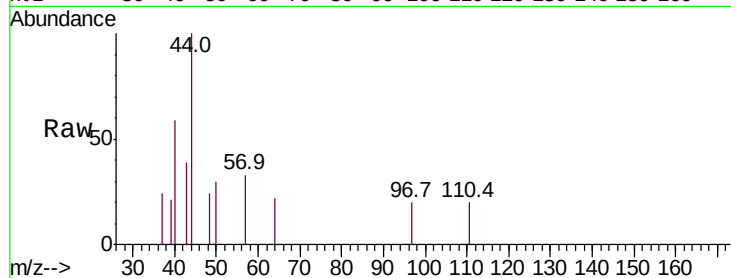
Tot Ion: 43 Resp: 491

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.4#

70 0.0 3.0 4.6#



#38

Carbon Tetrachloride

Concen: 5.720 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063230.D

Acq: 3 Sep 2020 19:12

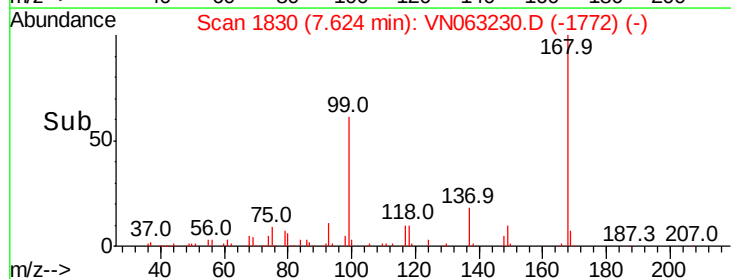
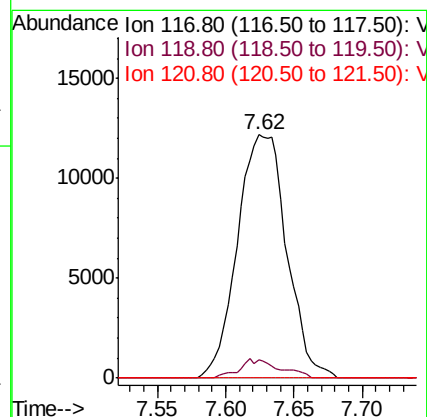
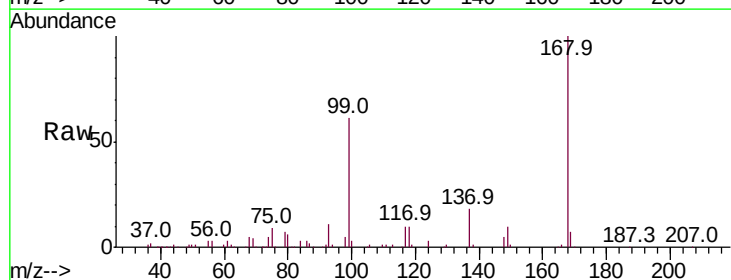
Tgt Ion: 117 Resp: 30535

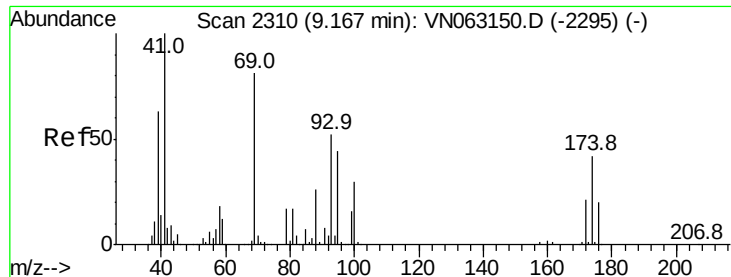
Ion Ratio Lower Upper

117 100

119 7.4 77.2 115.8#

121 0.0 25.6 38.4#





#49

1,4-Dioxane

Concen: 1.136 ug/l

RT: 9.18 min Scan# 2314

Delta R.T. 0.01 min

Lab File: VN063230.D

Acq: 3 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145I-20200901

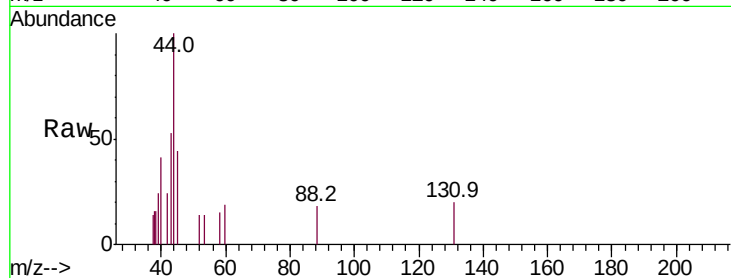
Tot Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 391.2 28.6 42.8#

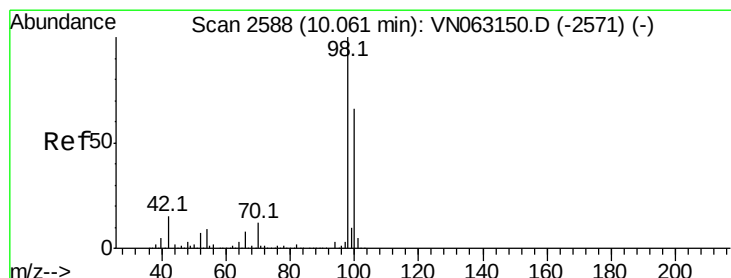
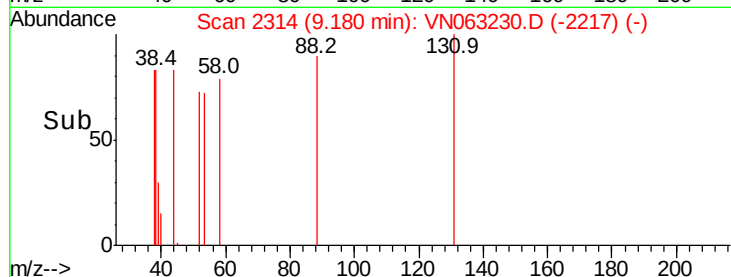
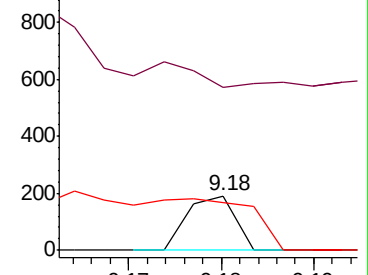
58 202.9 53.2 79.8#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 51.616 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063230.D

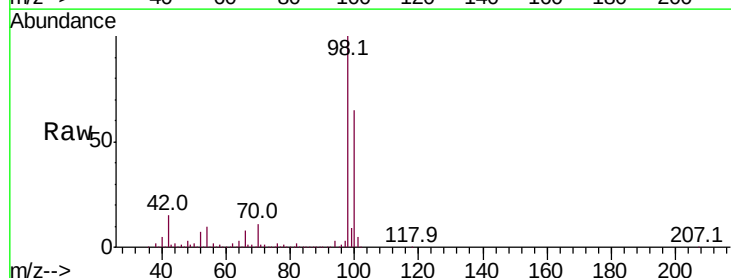
Acq: 3 Sep 2020 19:12

Tgt Ion: 98 Resp: 697840

Ion Ratio Lower Upper

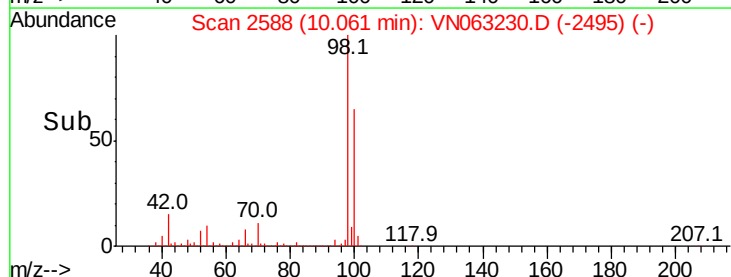
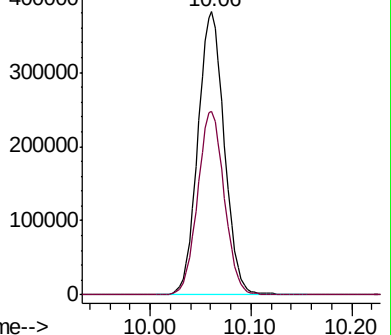
98 100

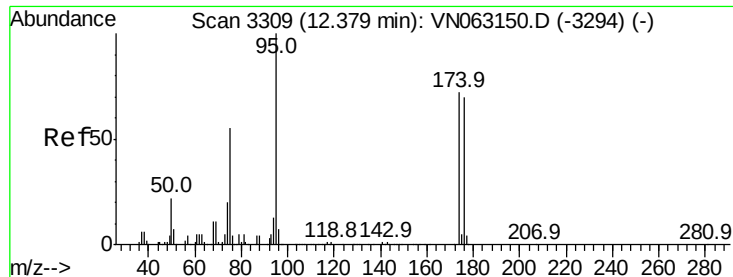
100 65.5 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#62

4-Bromofluorobenzene

Concen: 50.382 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.00 min

Lab File: VN063230.D

Acq: 3 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145I-20200901

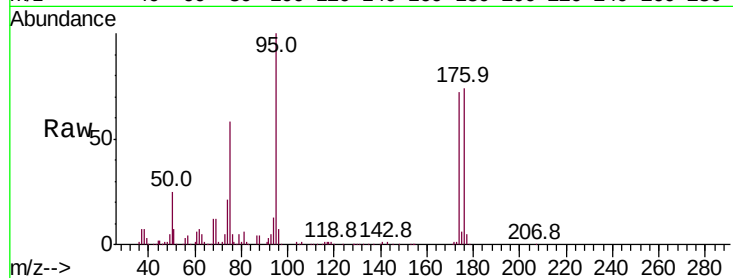
Tot Ion: 95 Resp: 238274

Ion Ratio Lower Upper

95 100

174 74.0 0.0 143.8

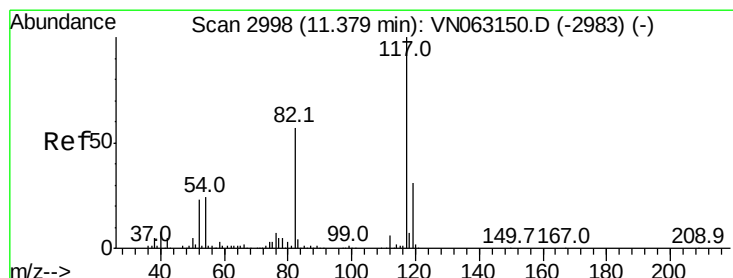
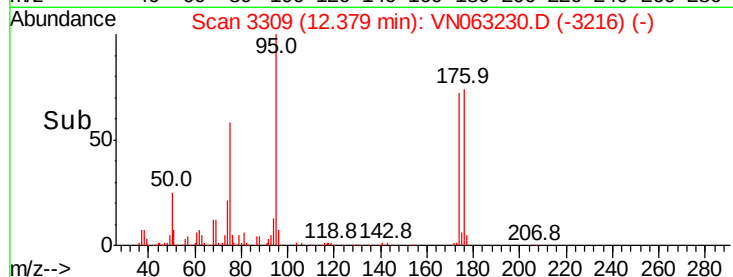
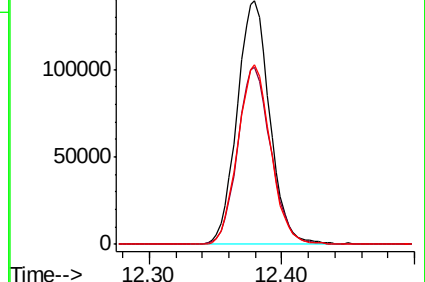
176 74.1 0.0 138.4



Abundance Ion 94.90 (94.60 to 95.60): VN063230.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063230.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063230.D (-3294) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN063230.D

Acq: 3 Sep 2020 19:12

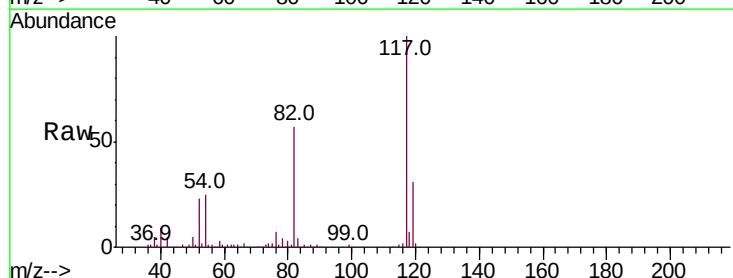
Tgt Ion: 117 Resp: 553589

Ion Ratio Lower Upper

117 100

82 57.2 45.4 68.0

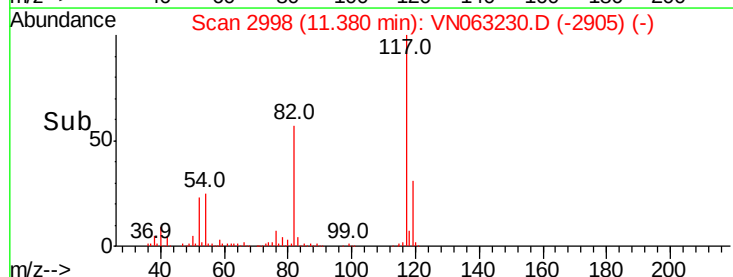
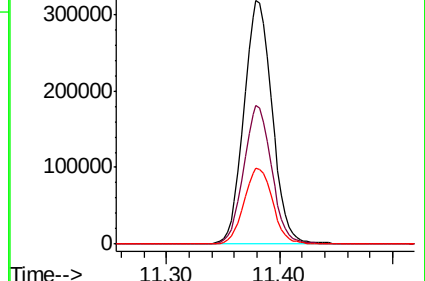
119 31.0 24.6 37.0

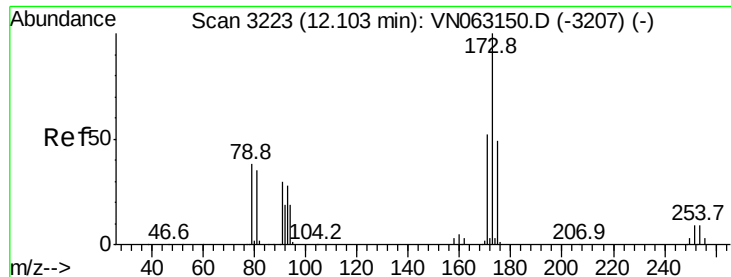


Abundance Ion 116.90 (116.60 to 117.60): VN063230.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN063230.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063230.D (-2983) (-)





#71

Bromoform

Concen: 0.203 ug/l

RT: 12.37 min Scan# 3305

Delta R.T. 0.26 min

Lab File: VN063230.D

Acq: 3 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ145I-20200901

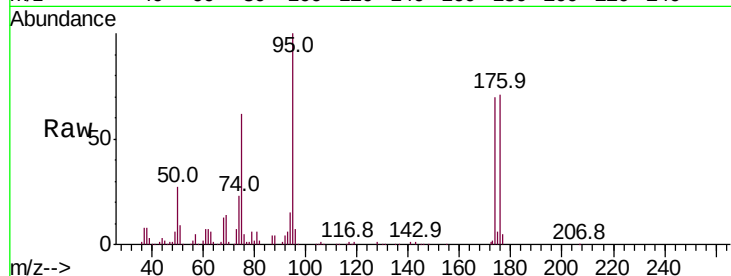
Tot Ion:173 Resp: 571

Ion Ratio Lower Upper

173 100

175 0.0 24.6 73.8#

254 0.0 0.0 0.0

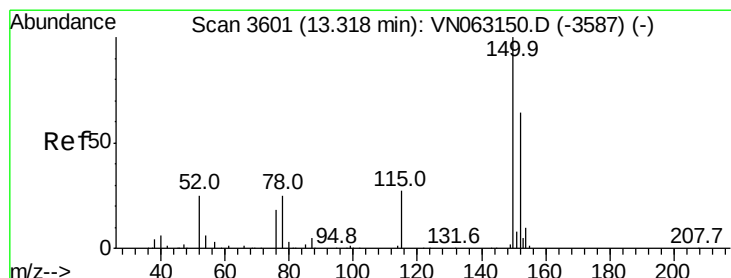
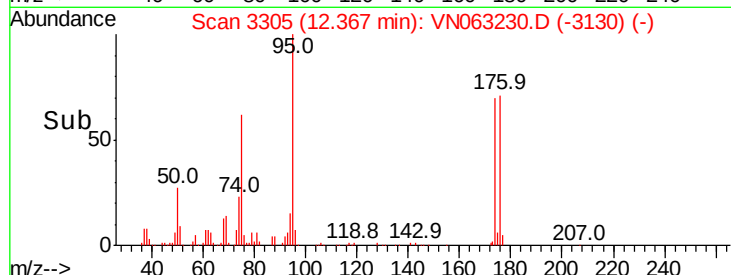
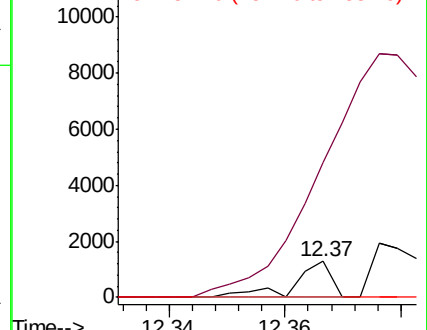


Abundance

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# 3602

Delta R.T. 0.00 min

Lab File: VN063230.D

Acq: 3 Sep 2020 19:12

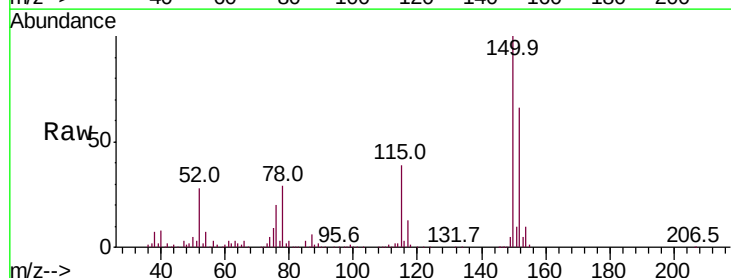
Tgt Ion:152 Resp: 212825

Ion Ratio Lower Upper

152 100

115 61.6 32.0 96.2

150 155.7 0.0 353.0

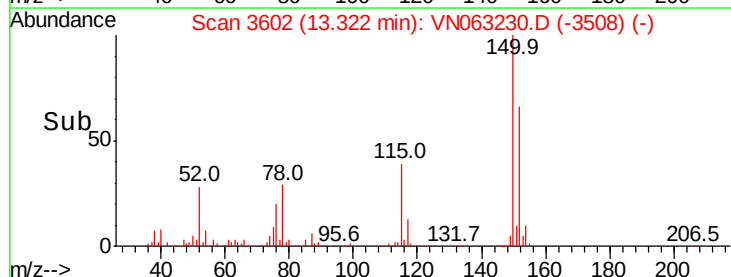
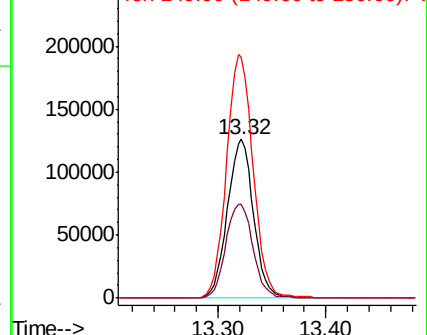


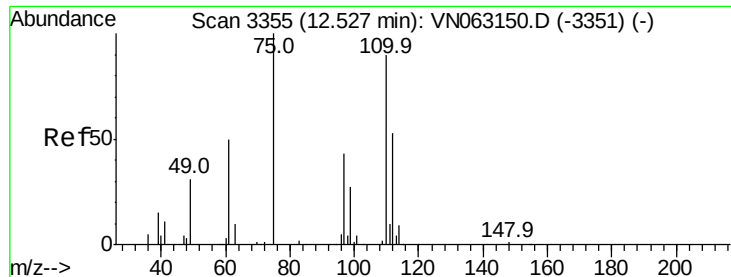
Abundance

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: 33.548 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063230.D

Acq: 3 Sep 2020 19:12

Instrument :

MSVOA_N

ClientSampleId :

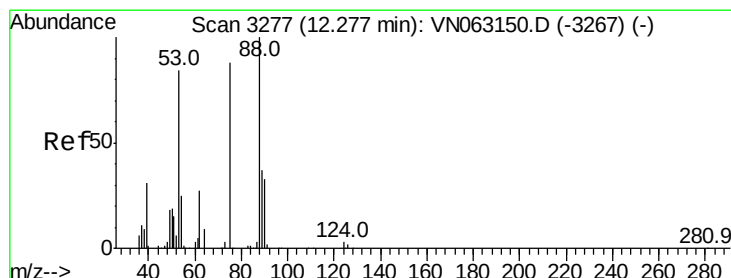
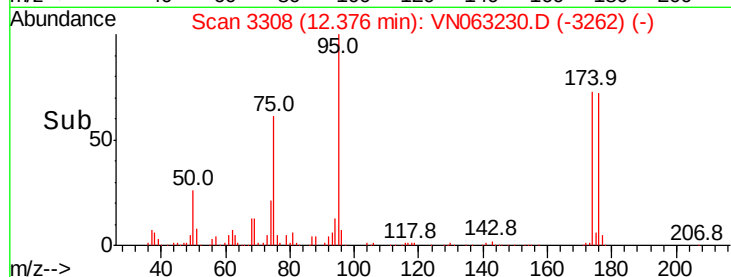
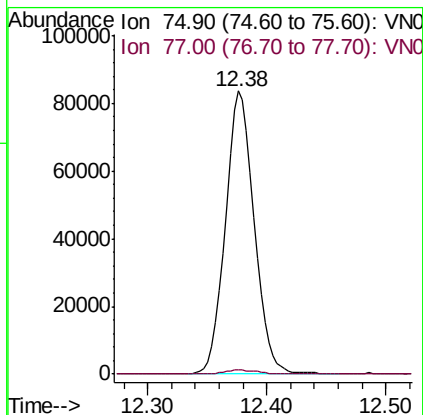
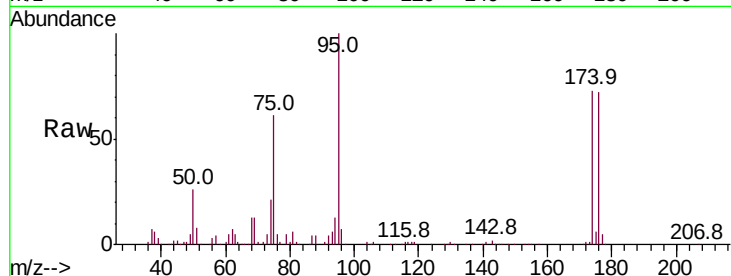
SA-PZ145I-20200901

Tot Ion: 75 Resp: 140284

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 81.085 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063230.D

Acq: 3 Sep 2020 19:12

Tgt Ion: 75 Resp: 140284

Ion Ratio Lower Upper

75 100

53 0.0 78.7 118.1#

89 0.0 35.3 52.9#

