

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091120\
 Data File : VN063317.D
 Acq On : 11 Sep 2020 16:18
 Operator : JC/MD
 Sample : L3988-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 12 00:42:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091020W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 11 06:02:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	370504	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	701199	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	677807	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	274229	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	287950	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	
35) Dibromofluoromethane	7.55	113	222478	49.18	ug/l	0.00
Spiked Amount			Recovery	=	98.36%	
50) Toluene-d8	10.06	98	889809	51.33	ug/l	0.00
Spiked Amount			Recovery	=	102.66%	
62) 4-Bromofluorobenzene	12.38	95	329181	51.41	ug/l	0.00
Spiked Amount			Recovery	=	102.82%	

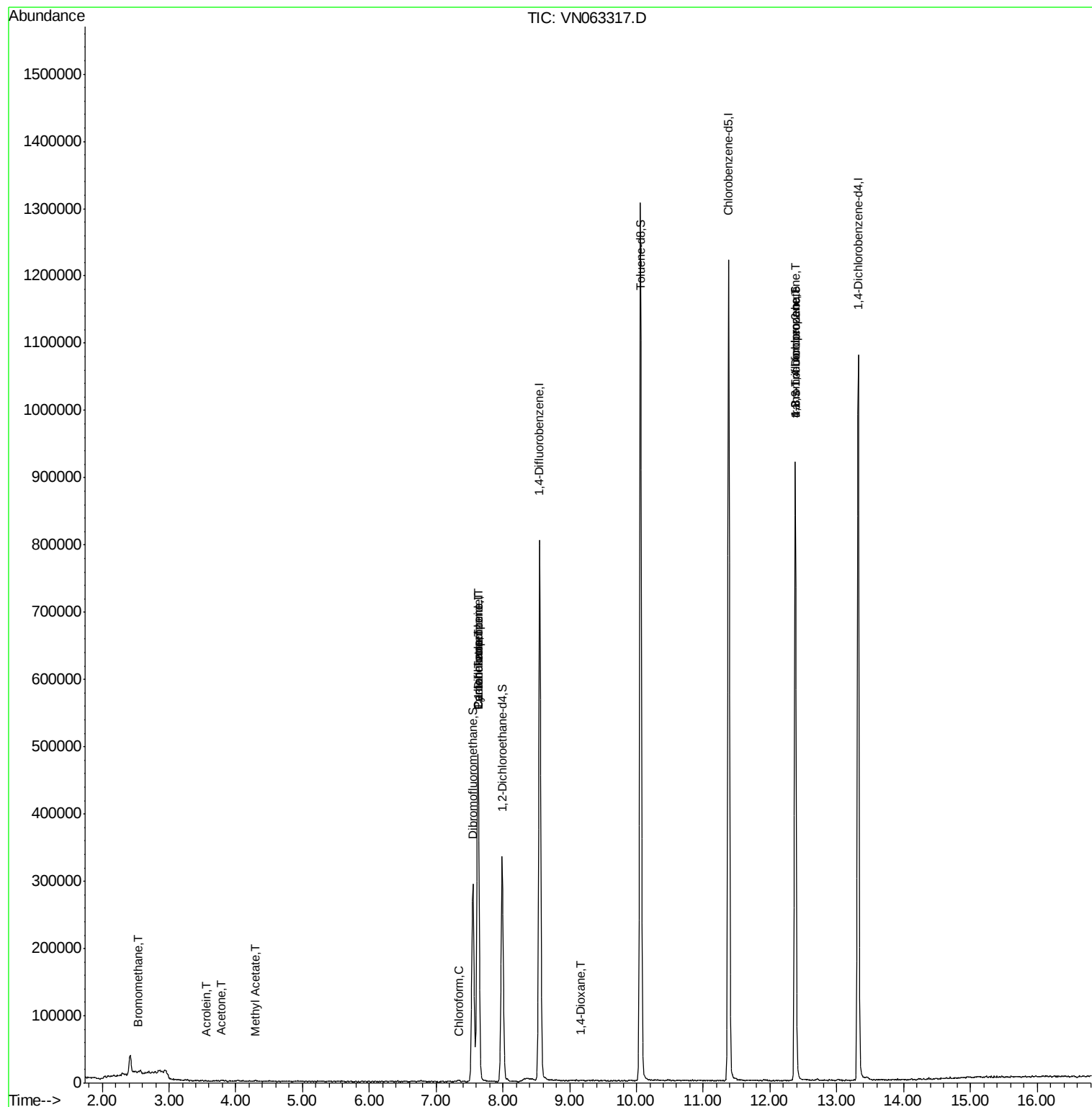
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1803	Below Cal	#	70
5) Bromomethane	2.54	94	724	0.206	ug/l #	4
13) Acrolein	3.56	56	66	32.595	ug/l #	14
16) Acetone	3.78	43	827	0.411	ug/l #	63
17) Carbon Disulfide	4.01	76	664	Below Cal	#	75
18) Methyl Acetate	4.29	43	1509	0.299	ug/l #	58
20) Methylene Chloride	4.50	84	211	Below Cal	#	15
30) Chloroform	7.33	83	1876	0.211	ug/l #	76
31) Cyclohexane	7.63	56	10181	1.247	ug/l #	29
36) 1,1-Dichloropropene	7.63	75	33189	4.605	ug/l #	51
38) Carbon Tetrachloride	7.63	117	41467	5.846	ug/l #	16
49) 1,4-Dioxane	9.17	88	69	0.778	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	179567	29.681	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	179567	79.747	ug/l #	9
88) 1,4-Dichlorobenzene	13.33	146	495	Below Cal	#	1
95) Naphthalene	15.12	128	2740	Below Cal	#	82

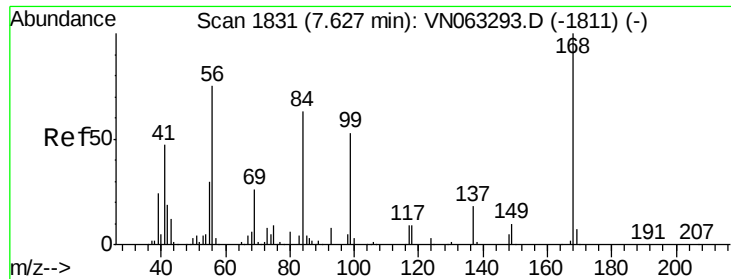
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN063317.D

Acq: 11 Sep 2020 16:18

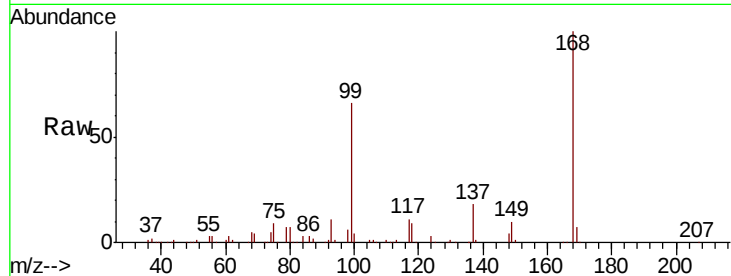
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 370504

Ion Ratio Lower Upper

168 100

99 66.0 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

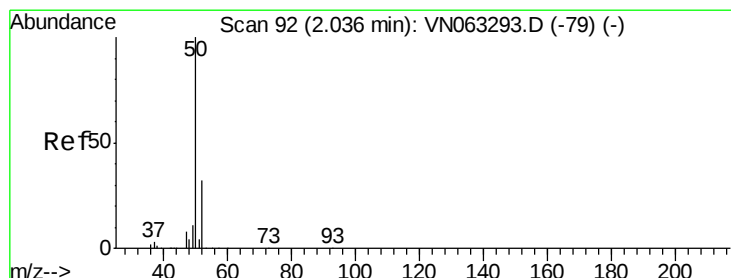
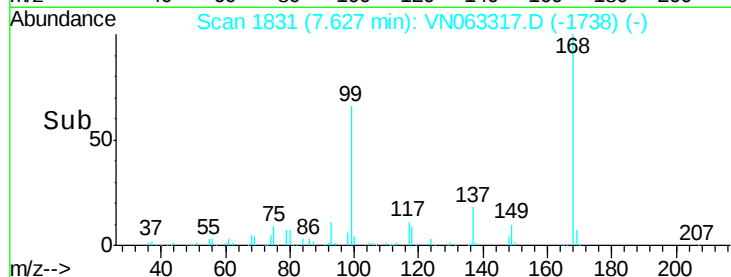
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 91

Delta R.T. -0.00 min

Lab File: VN063317.D

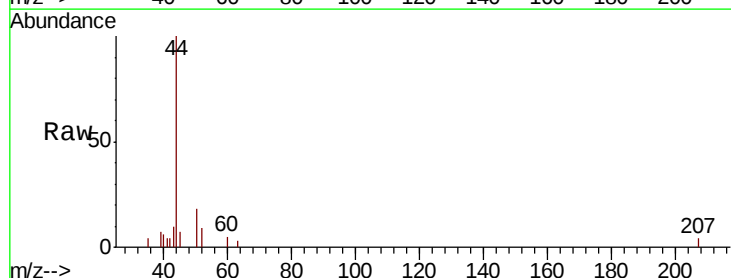
Acq: 11 Sep 2020 16:18

Tgt Ion: 50 Resp: 1803

Ion Ratio Lower Upper

50 100

52 48.5 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

1000

800

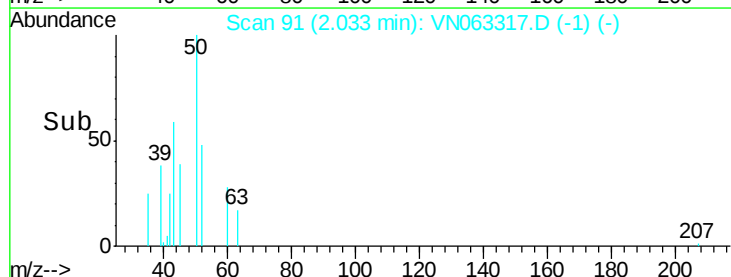
600

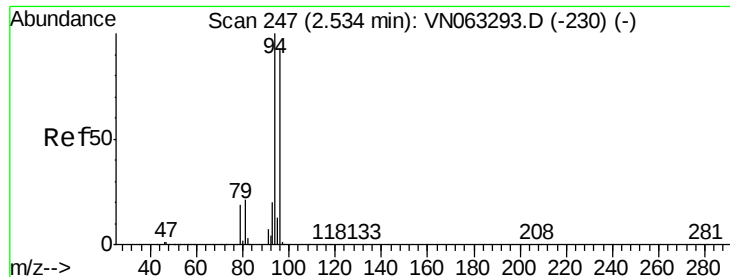
400

200

0

Time--> 2.00 2.05





#5

Bromomethane

Concen: 0.206 ug/l

RT: 2.54 min Scan# 250

Delta R.T. 0.01 min

Lab File: VN063317.D

Acq: 11 Sep 2020 16:18

Instrument :

MSVOA_N

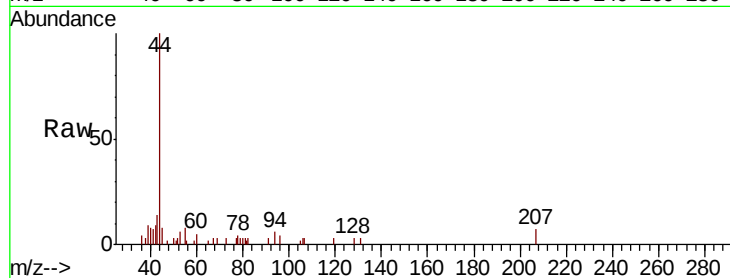
ClientSampled :

Tot Ion: 94 Resp: 724

Ion Ratio Lower Upper

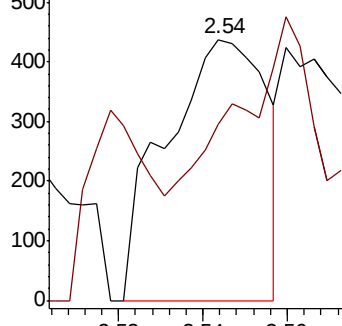
94 100

96 0.5 74.3 111.5#

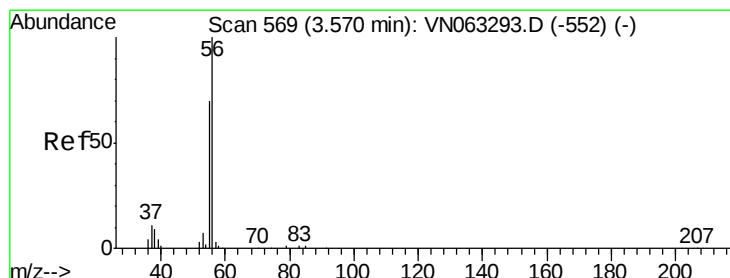
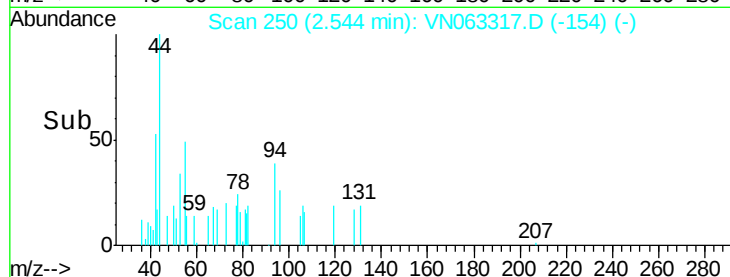


Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



Time-->



#13

Acrolein

Concen: 32.595 ug/l

RT: 3.56 min Scan# 566

Delta R.T. -0.01 min

Lab File: VN063317.D

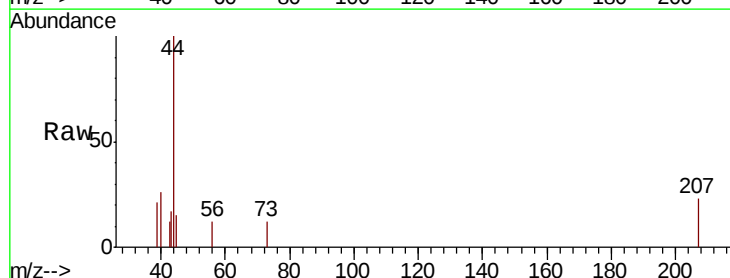
Acq: 11 Sep 2020 16:18

Tgt Ion: 56 Resp: 66

Ion Ratio Lower Upper

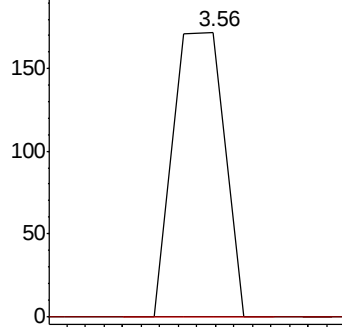
56 100

55 0.0 57.2 85.8#

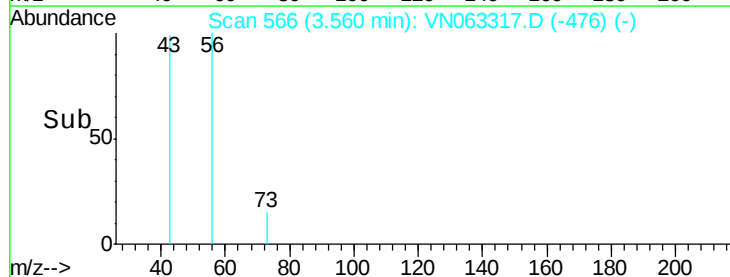


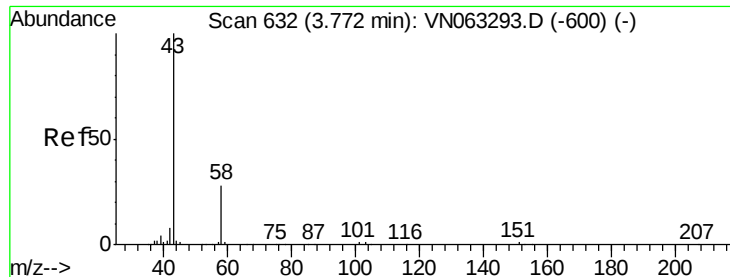
Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->





#16

Acetone

Concen: 0.411 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063317.D

Acq: 11 Sep 2020 16:18

Instrument :

MSVOA_N

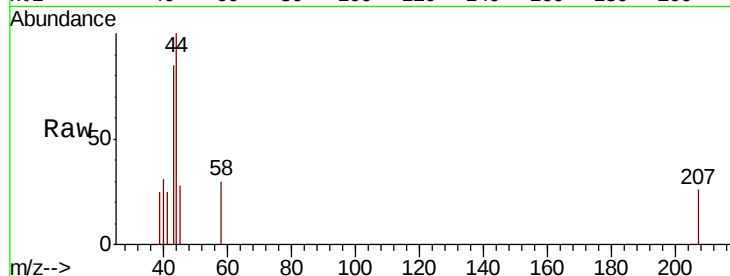
ClientSampled :

Tot Ion: 43 Resp: 827

Ion Ratio Lower Upper

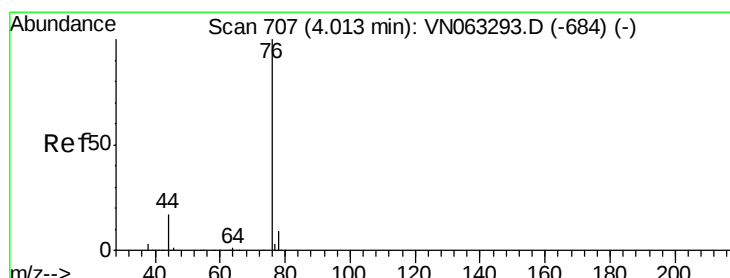
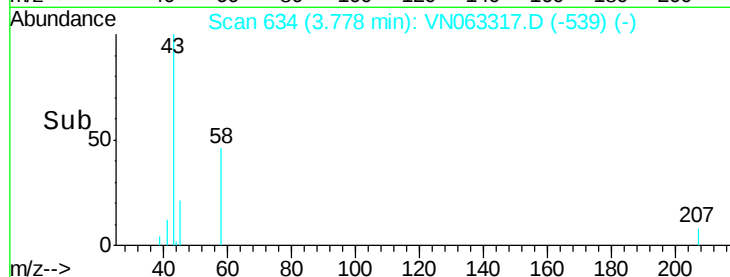
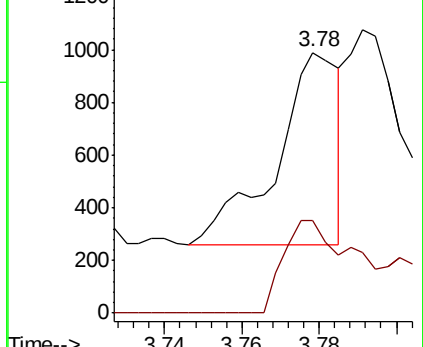
43 100

58 48.0 22.6 34.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.01 min Scan# 707

Delta R.T. 0.00 min

Lab File: VN063317.D

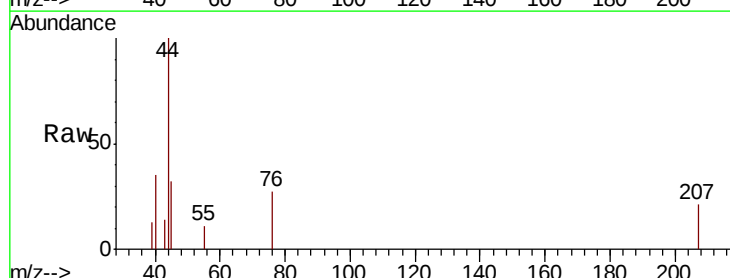
Acq: 11 Sep 2020 16:18

Tgt Ion: 76 Resp: 664

Ion Ratio Lower Upper

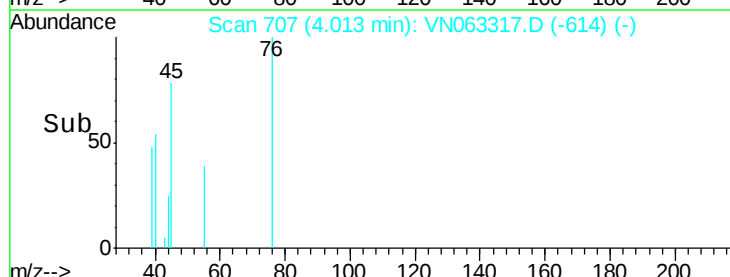
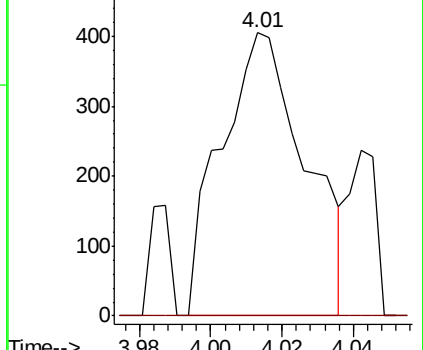
76 100

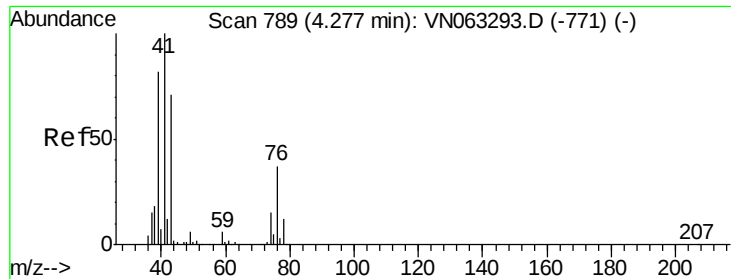
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

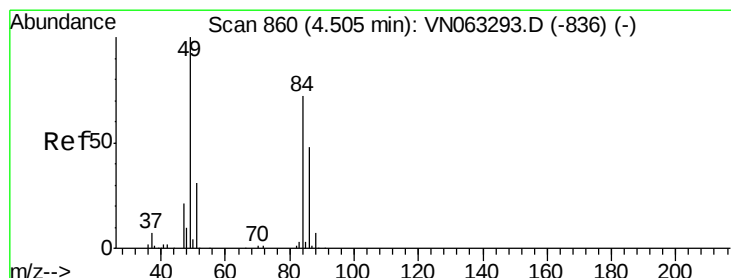
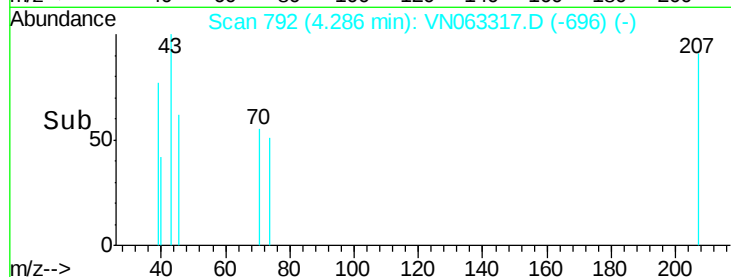
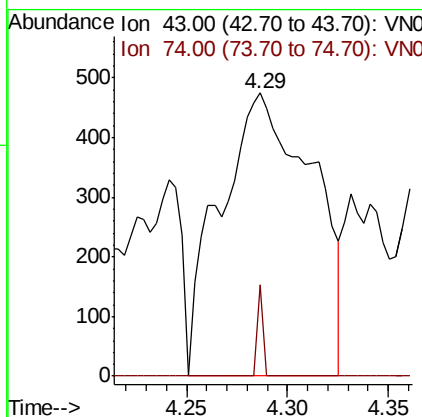
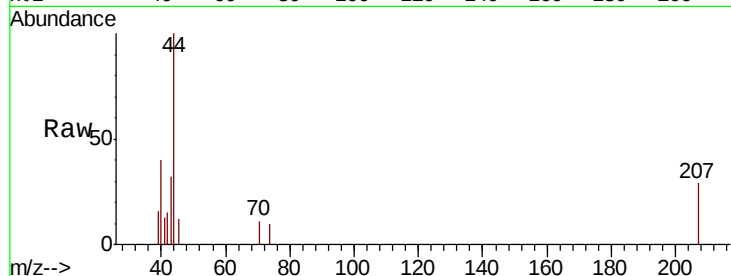




#18
Methyl Acetate
Concen: 0.299 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN063317.D
Acq: 11 Sep 2020 16:18

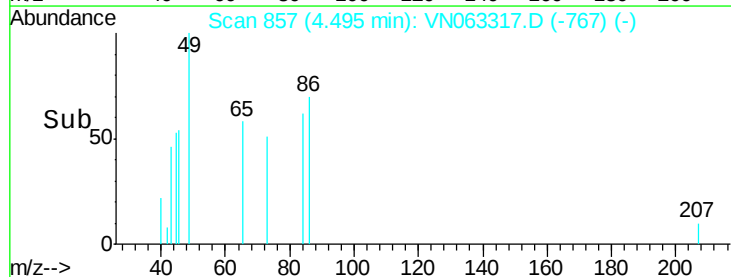
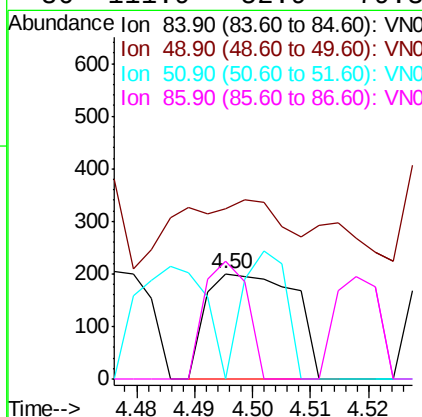
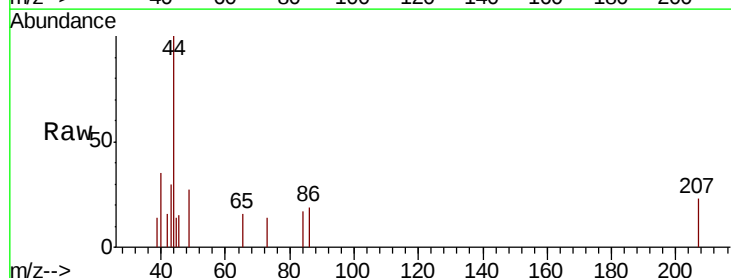
Instrument :
MSVOA_N
ClientSampled :

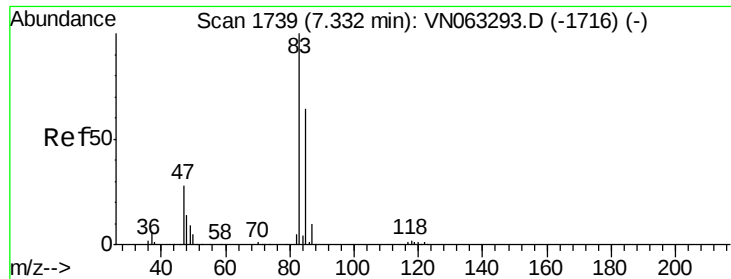
Tot Ion: 43 Resp: 1509
Ion Ratio Lower Upper
43 100
74 2.0 17.8 26.6#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.50 min Scan# 857
Delta R.T. -0.01 min
Lab File: VN063317.D
Acq: 11 Sep 2020 16:18

Tgt Ion: 84 Resp: 211
Ion Ratio Lower Upper
84 100
49 12.9 111.1 166.7#
51 0.0 34.3 51.5#
86 111.9 52.9 79.3#

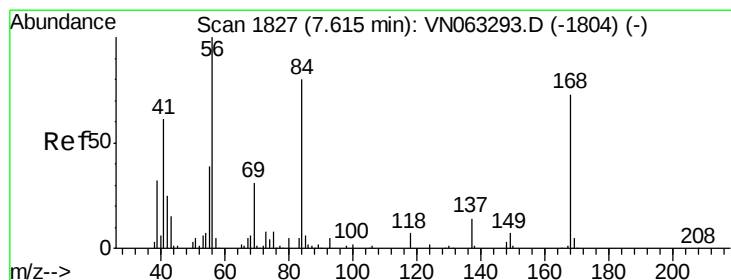
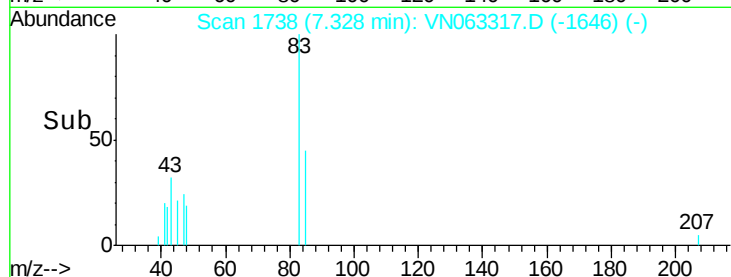
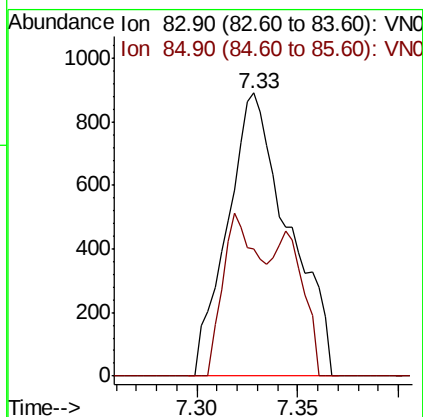
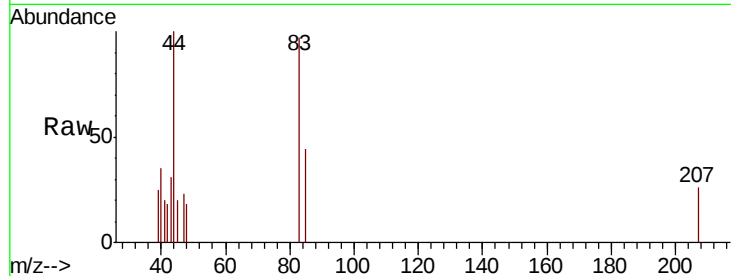




#30
Chloroform
Concen: 0.211 ug/l
RT: 7.33 min Scan# 1738
Delta R.T. -0.00 min
Lab File: VN063317.D
Acq: 11 Sep 2020 16:18

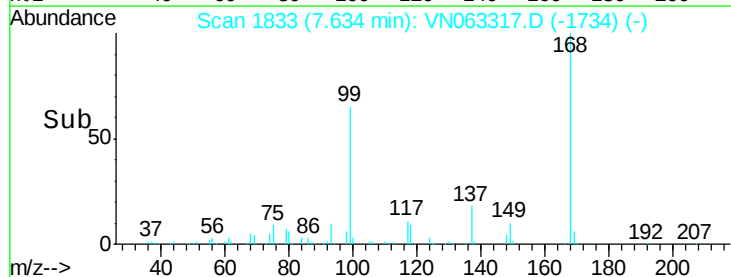
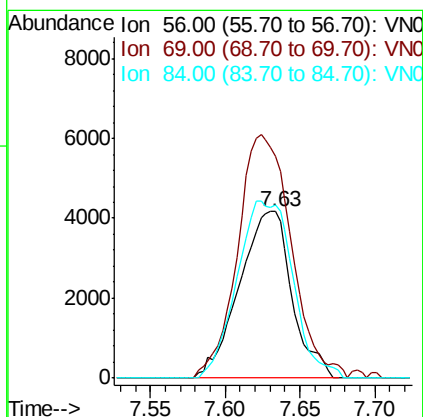
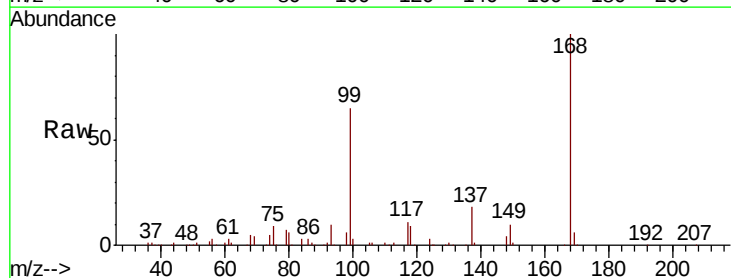
Instrument :
MSVOA_N
ClientSampleId :

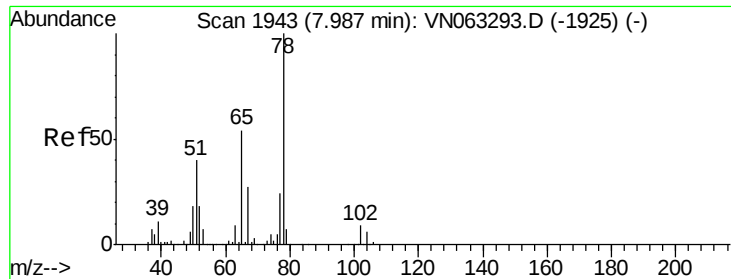
Tot Ion: 83 Resp: 1876
Ion Ratio Lower Upper
83 100
85 45.0 51.2 76.8#



#31
Cyclohexane
Concen: 1.247 ug/l
RT: 7.63 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN063317.D
Acq: 11 Sep 2020 16:18

Tgt Ion: 56 Resp: 10181
Ion Ratio Lower Upper
56 100
69 133.3 25.1 37.7#
84 103.9 64.2 96.2#

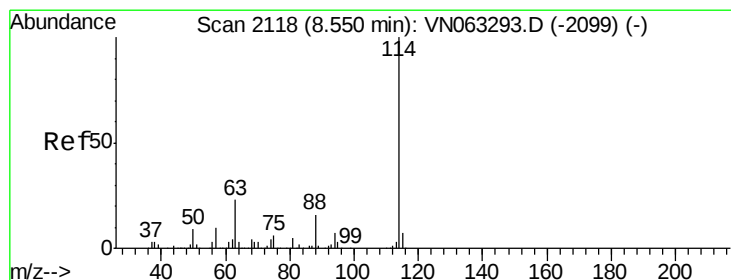
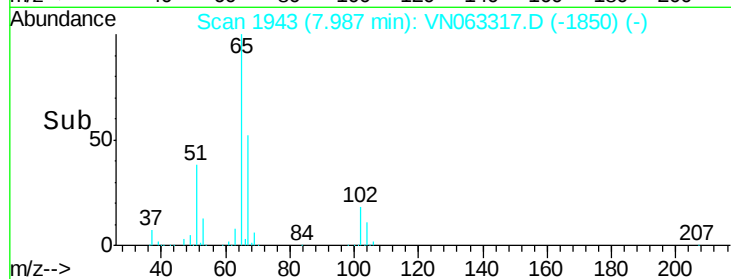
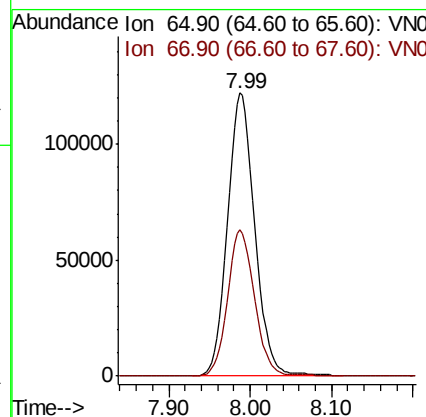
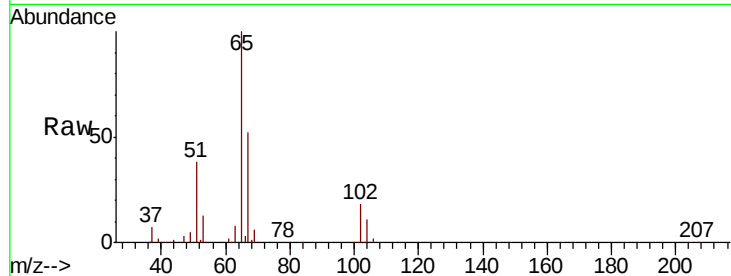




#33
 1,2-Dichloroethane-d4
 Concen: 49.466 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN063317.D
 Acq: 11 Sep 2020 16:18

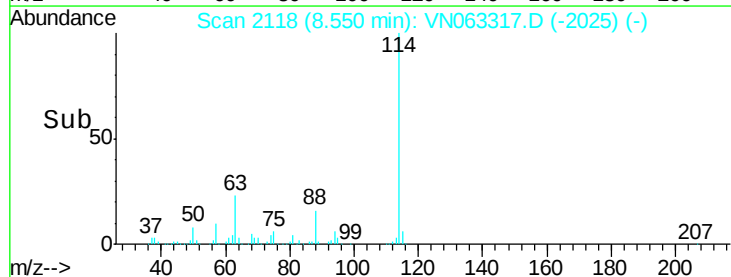
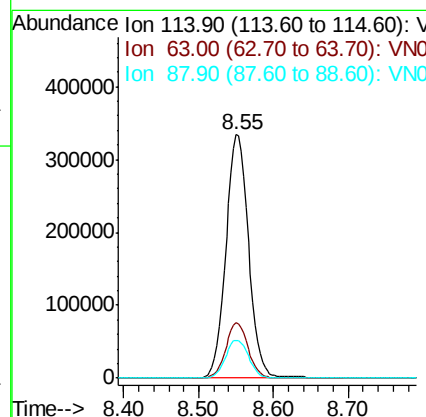
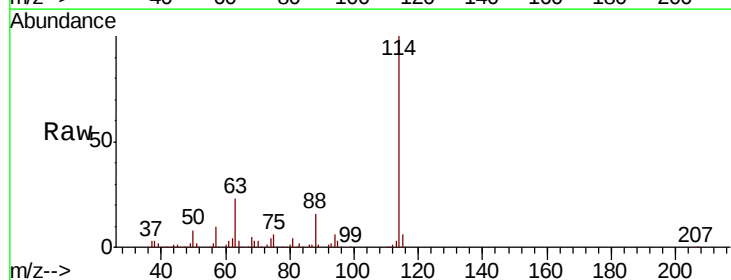
Instrument :
 MSVOA_N
 ClientSampleId :

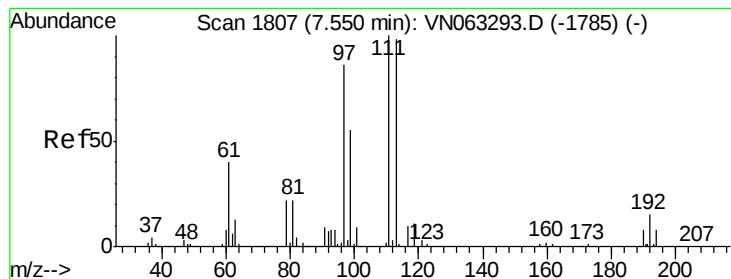
Tot Ion: 65 Resp: 287950
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063317.D
 Acq: 11 Sep 2020 16:18

Tgt Ion: 114 Resp: 701199
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 46.0
 88 15.6 0.0 32.8





#35

Dibromofluoromethane

Concen: 49.181 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. -0.00 min

Lab File: VN063317.D

Acq: 11 Sep 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

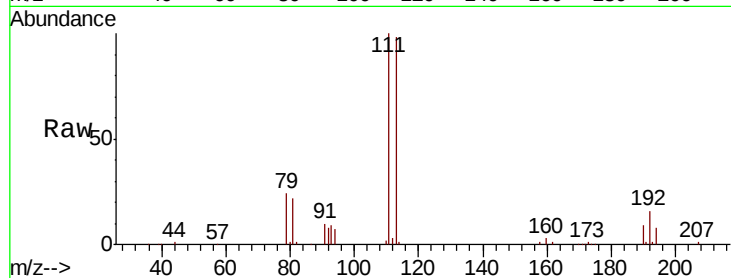
Tot Ion:113 Resp: 222478

Ion Ratio Lower Upper

113 100

111 102.5 82.2 123.2

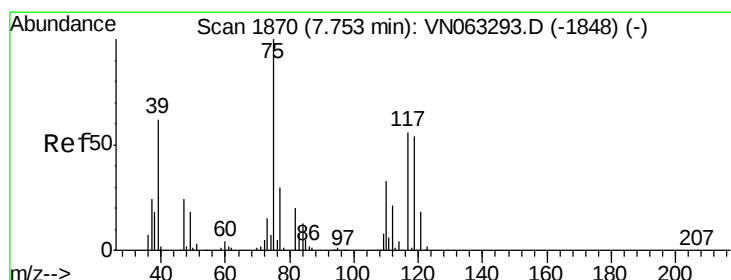
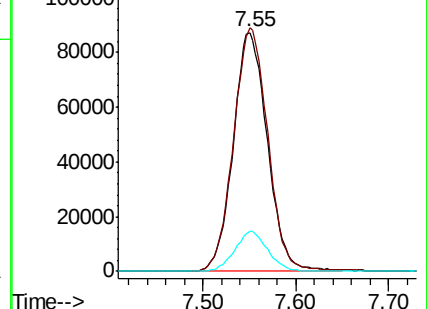
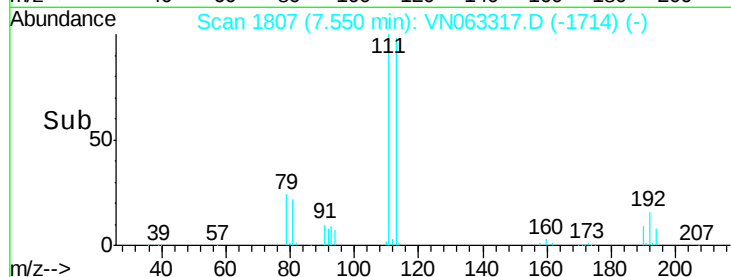
192 16.2 12.9 19.3



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.605 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN063317.D

Acq: 11 Sep 2020 16:18

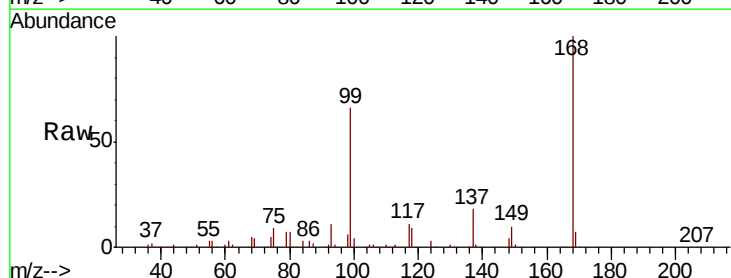
Tgt Ion: 75 Resp: 33189

Ion Ratio Lower Upper

75 100

110 9.2 16.4 49.4#

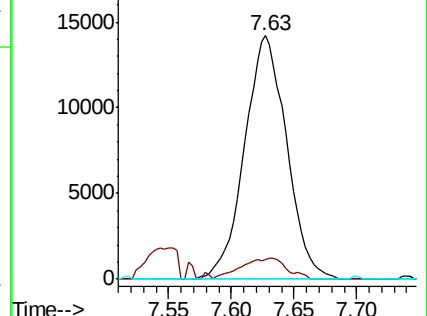
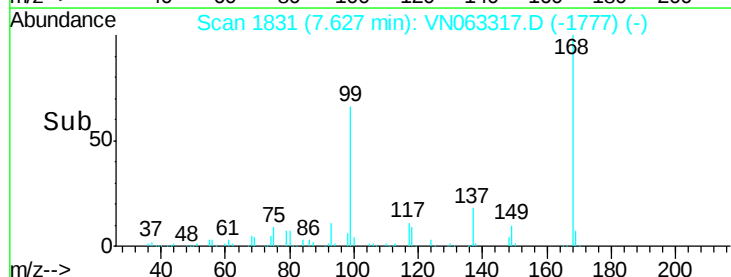
77 0.0 24.8 37.2#

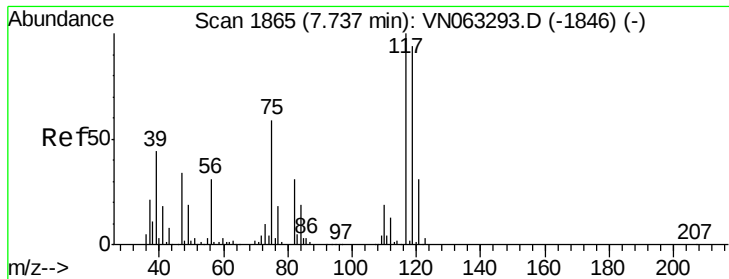


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.846 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063317.D

Acq: 11 Sep 2020 16:18

Instrument :

MSVOA_N

ClientSampled :

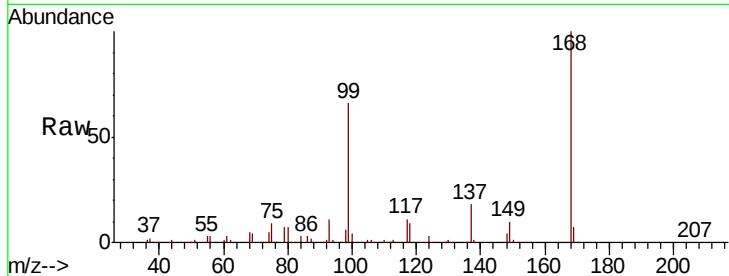
Tot Ion:117 Resp: 41467

Ion Ratio Lower Upper

117 100

119 3.6 75.3 112.9#

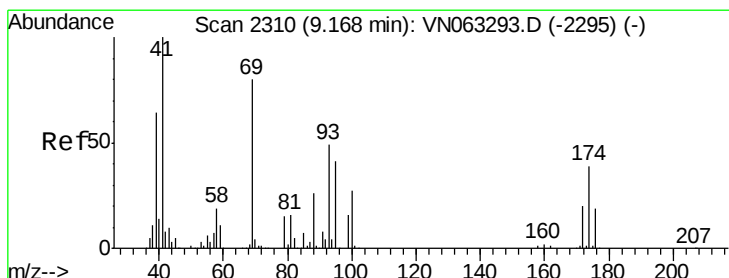
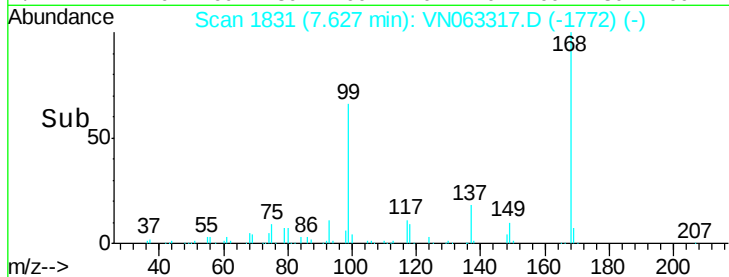
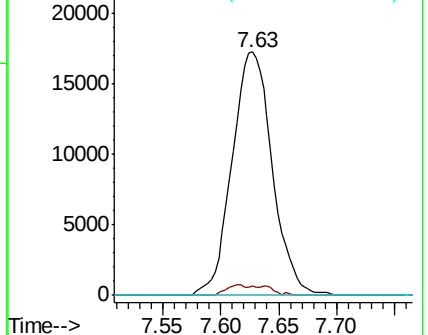
121 0.0 24.6 37.0#



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: 0.778 ug/l

RT: 9.17 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN063317.D

Acq: 11 Sep 2020 16:18

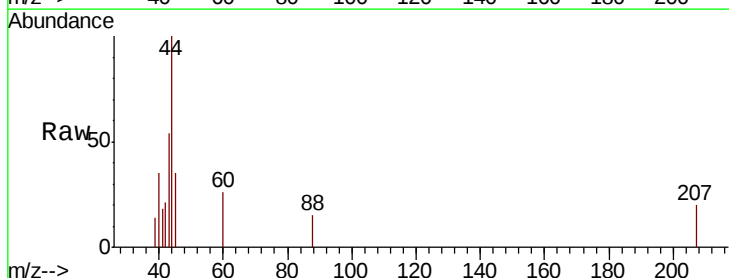
Tgt Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 253.6 30.5 45.7#

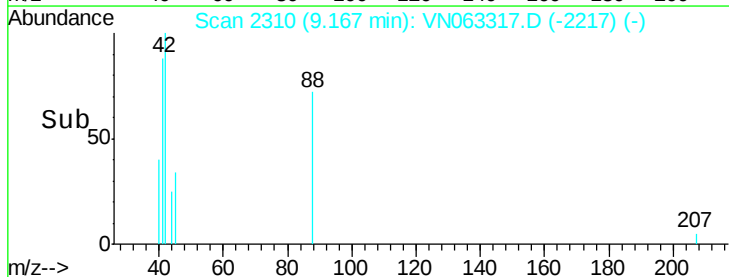
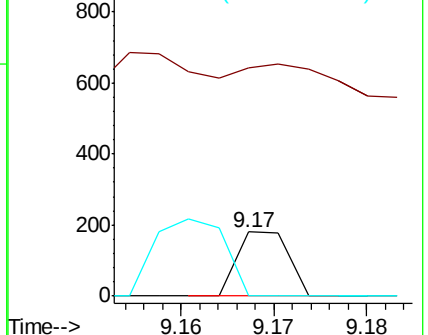
58 165.2 58.9 88.3#

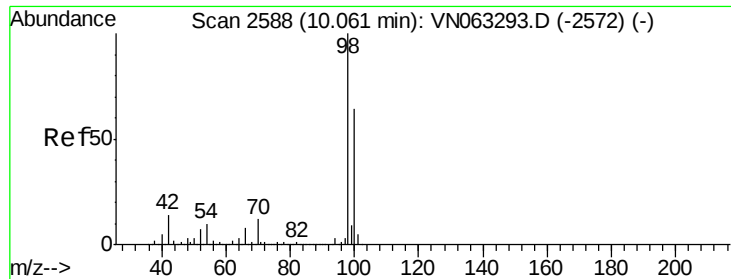


Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 51.328 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. -0.00 min

Lab File: VN063317.D

Acq: 11 Sep 2020 16:18

Instrument :

MSVOA_N

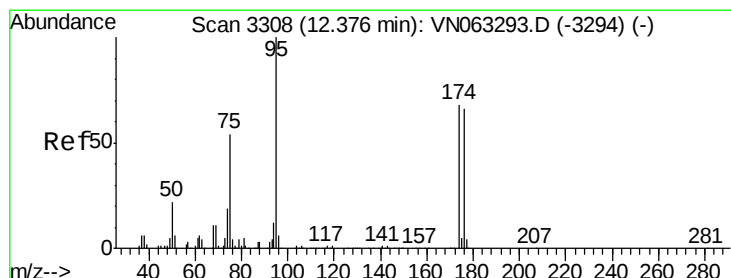
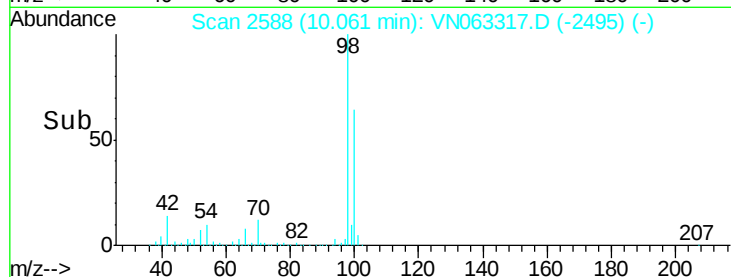
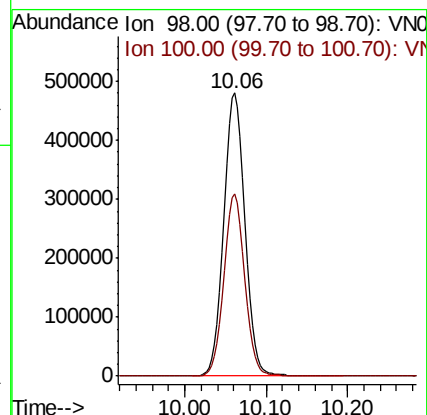
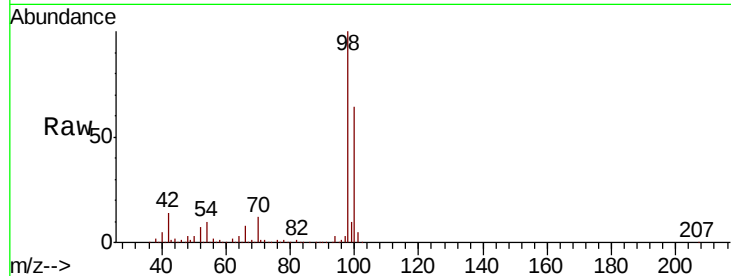
ClientSampled :

Tot Ion: 98 Resp: 889809

Ion Ratio Lower Upper

98 100

100 63.3 50.7 76.1



#62

4-Bromofluorobenzene

Concen: 51.411 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.00 min

Lab File: VN063317.D

Acq: 11 Sep 2020 16:18

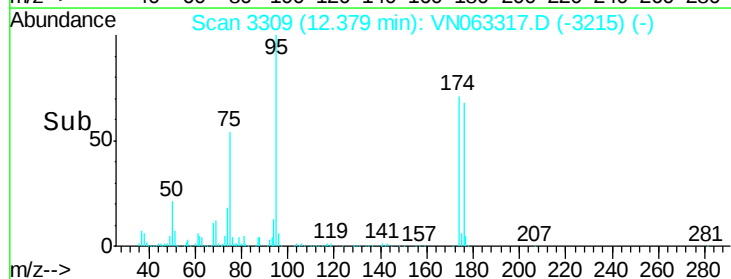
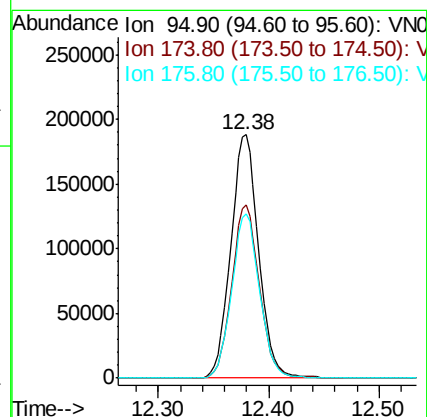
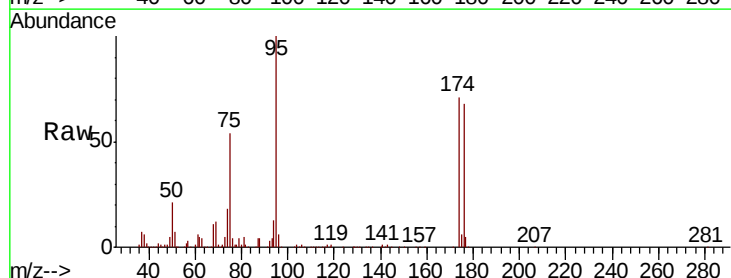
Tgt Ion: 95 Resp: 329181

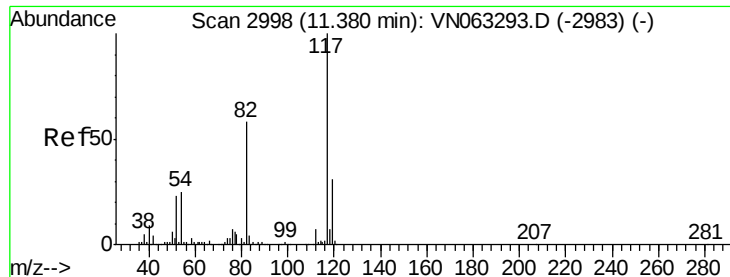
Ion Ratio Lower Upper

95 100

174 70.2 0.0 136.6

176 67.6 0.0 132.8

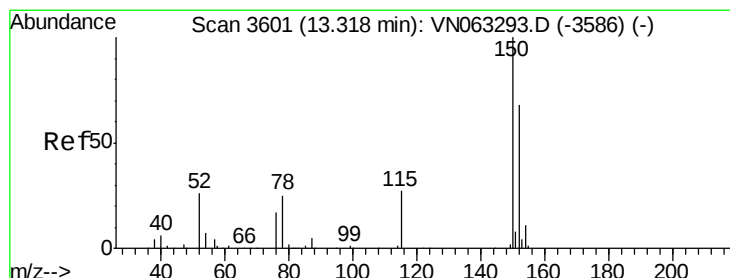
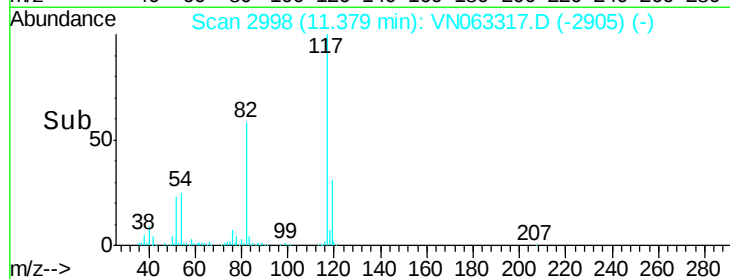
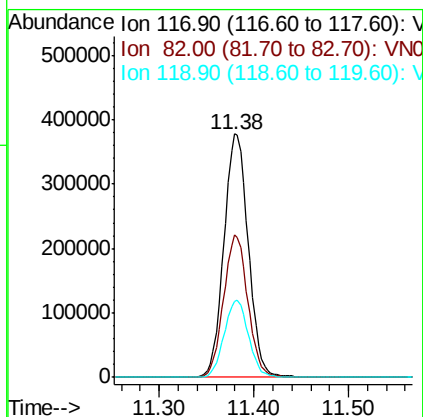
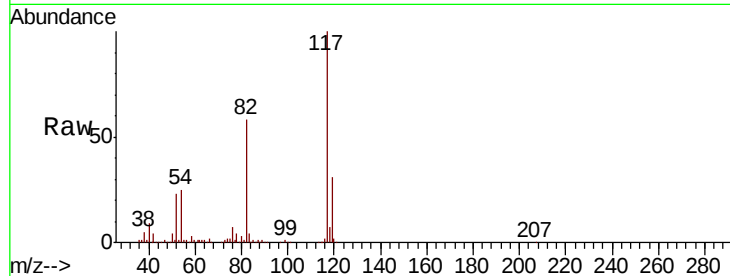




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063317.D
Acq: 11 Sep 2020 16:18

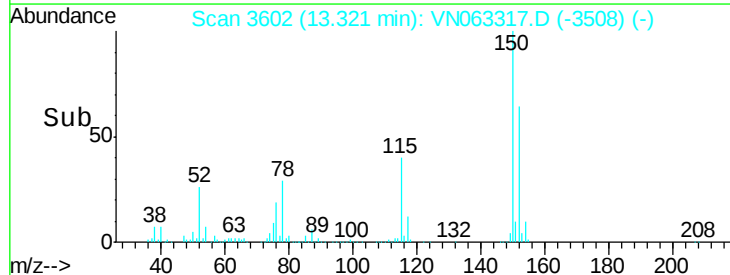
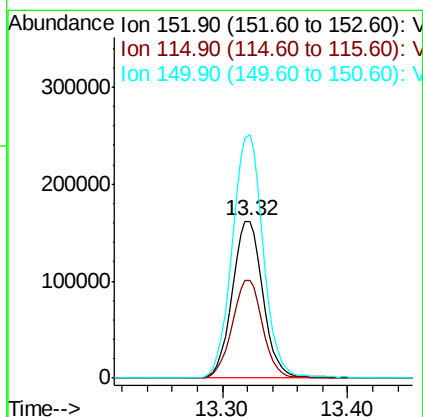
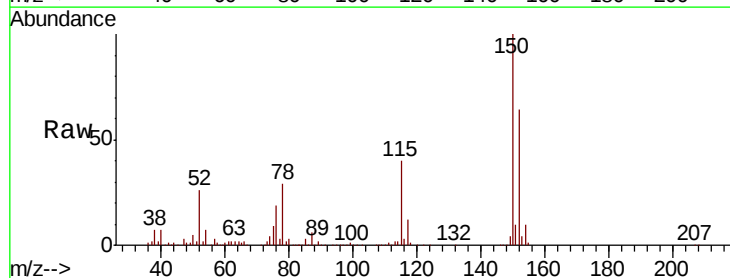
Instrument :
MSVOA_N
ClientSampled :

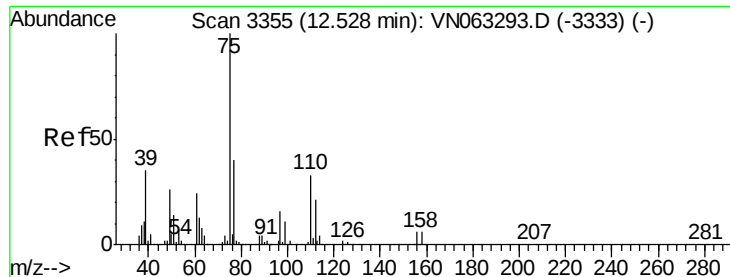
Tot Ion:117 Resp: 677807
Ion Ratio Lower Upper
117 100
82 58.3 46.4 69.6
119 31.4 24.8 37.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3602
Delta R.T. 0.00 min
Lab File: VN063317.D
Acq: 11 Sep 2020 16:18

Tgt Ion:152 Resp: 274229
Ion Ratio Lower Upper
152 100
115 62.2 31.5 94.5
150 157.1 0.0 344.0





#76

1,2,3-Trichloropropane

Concen: 29.681 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063317.D

Acq: 11 Sep 2020 16:18

Instrument :

MSVOA_N

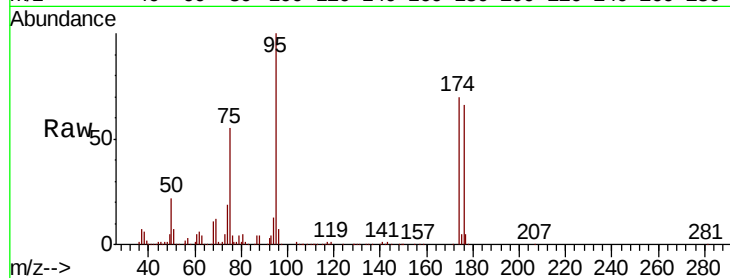
ClientSampleId :

Tot Ion: 75 Resp: 179567

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

60000

40000

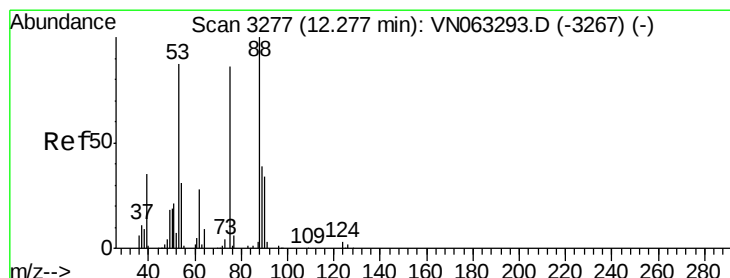
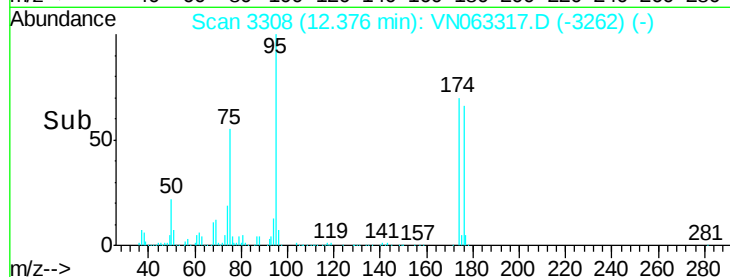
20000

0

12.30

12.40

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 79.747 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063317.D

Acq: 11 Sep 2020 16:18

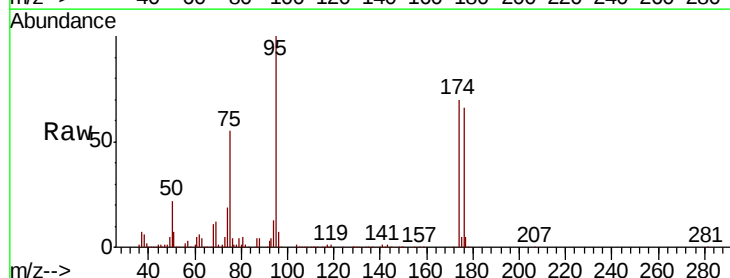
Tgt Ion: 75 Resp: 179567

Ion Ratio Lower Upper

75 100

53 0.1 81.8 122.8#

89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

100000

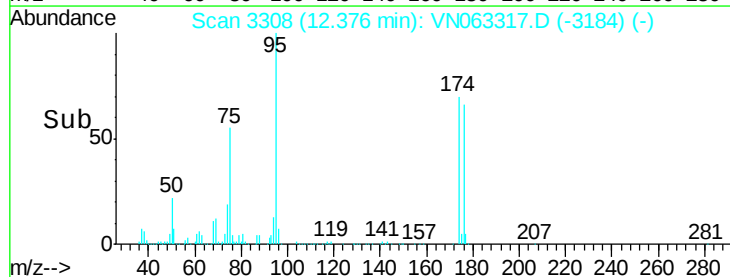
50000

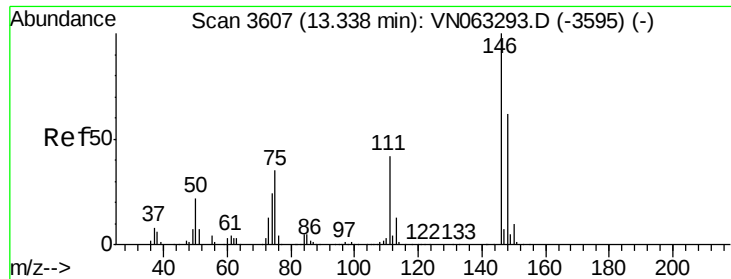
0

12.30

12.40

Time-->





#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 13.33 min Scan# 3604

Delta R.T. -0.01 min

Lab File: VN063317.D

Acq: 11 Sep 2020 16:18

Instrument :

MSVOA_N

ClientSampleId :

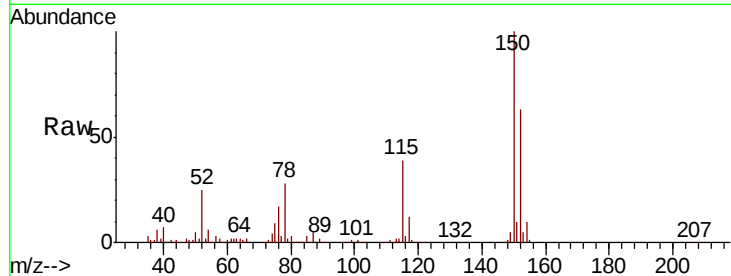
Tot Ion:146 Resp: 495

Ion Ratio Lower Upper

146 100

111 960.4 21.3 64.0#

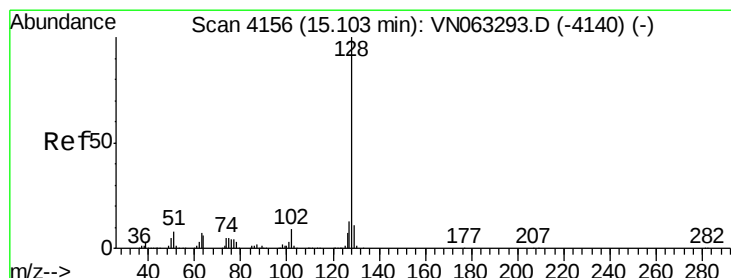
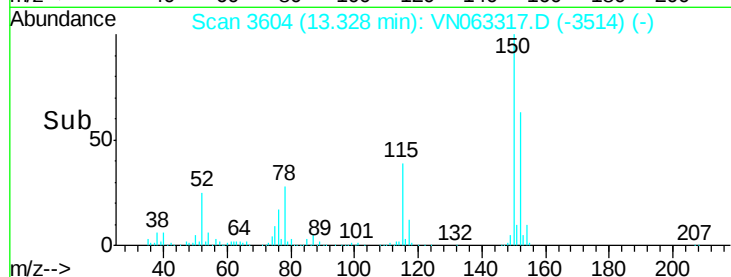
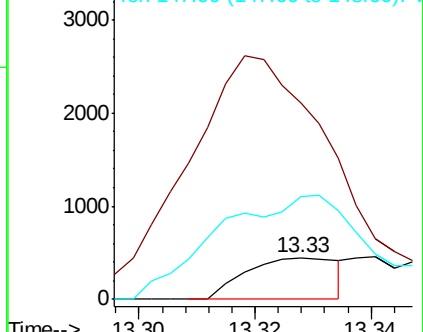
148 426.1 31.5 94.5#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#95

Naphthalene

Concen: Below Cal

RT: 15.12 min Scan# 4160

Delta R.T. 0.01 min

Lab File: VN063317.D

Acq: 11 Sep 2020 16:18

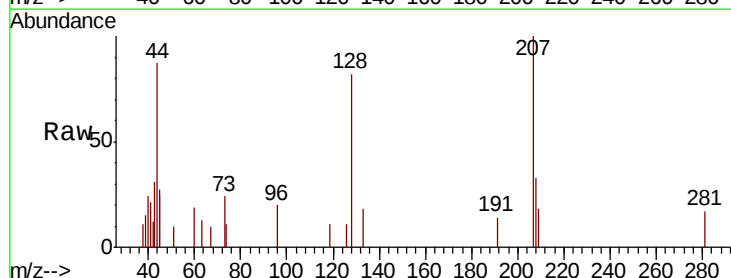
Tgt Ion:128 Resp: 2740

Ion Ratio Lower Upper

128 100

127 1.2 10.3 15.5#

129 8.9 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

