

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090120\
 Data File : VN063156.D
 Acq On : 1 Sep 2020 15:34
 Operator : JC/MD
 Sample : VN0901MBL01
 Misc : 5.00µ/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 02 04:01:09 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	7.62	168	403760	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	783389	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	749322	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	301014	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.98	65	320115	48.50	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.00%	
35) Dibromofluoromethane	7.55	113	247205	49.19	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.38%	
50) Toluene-d8	10.06	98	975947	50.45	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.90%	
62) 4-Bromofluorobenzene	12.38	95	351144	51.89	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.78%	

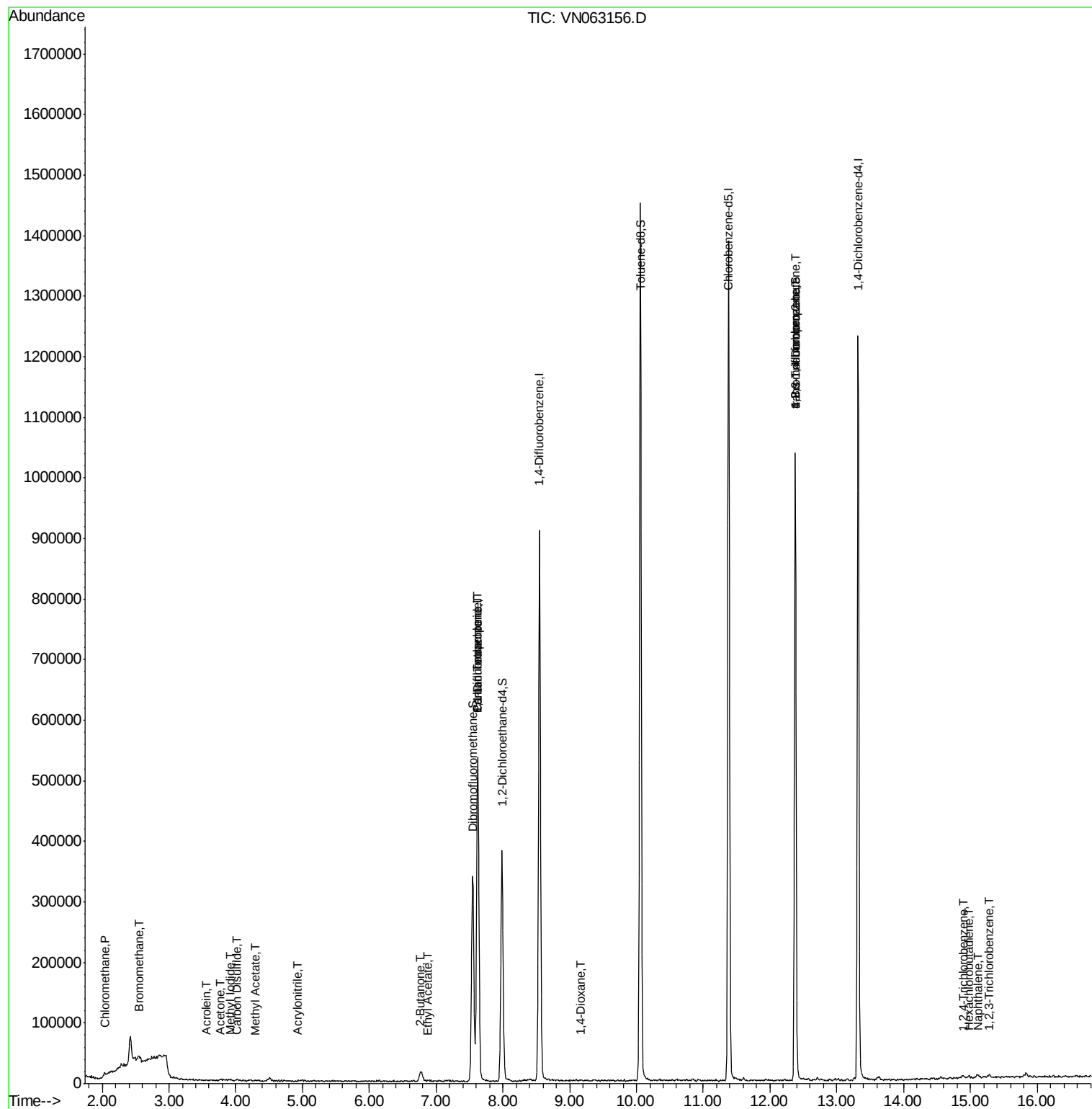
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	2714	0.469	ug/l	95
5) Bromomethane	2.54	94	2476	0.460	ug/l	94
7) Trichlorofluoromethane	3.00	101	139	Below Cal	#	19
10) Methyl Iodide	3.91	142	1639	0.276	ug/l #	63
13) Acrolein	3.56	56	60	15.951	ug/l #	1
15) Acrylonitrile	4.93	53	761	2.736	ug/l #	41
16) Acetone	3.76	43	659	0.351	ug/l	92
17) Carbon Disulfide	4.01	76	4118	0.312	ug/l #	85
18) Methyl Acetate	4.28	43	969	0.201	ug/l #	52
25) 2-Butanone	6.77	43	630	0.217	ug/l #	50
31) Cyclohexane	7.62	56	12582	Below Cal	#	48
36) 1,1-Dichloropropene	7.62	75	38434	5.103	ug/l #	50
37) Ethyl Acetate	6.87	43	68	0.390	ug/l #	1
38) Carbon Tetrachloride	7.62	117	43549	5.702	ug/l #	15
49) 1,4-Dioxane	9.15	88	206	2.405	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	197969	33.473	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	197969	80.904	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.89	180	1262	0.243	ug/l	97
94) Hexachlorobutadiene	14.98	225	528	0.272	ug/l #	59
95) Naphthalene	15.11	128	5039	0.290	ug/l	98
96) 1,2,3-Trichlorobenzene	15.29	180	1437	0.284	ug/l	93

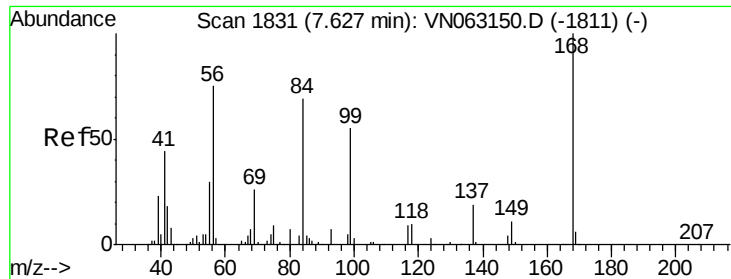
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN090120\
Data File : VN063156.D
Acq On : 1 Sep 2020 15:34
Operator : JC/MD
Sample : VN0901MBL01
Misc : 5.00µl/10mL/100µL/5.00mL/MSVOA_N/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Sep 02 04:01:09 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N083120W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 01 04:21:28 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN063156.D

Acq: 1 Sep 2020 15:34

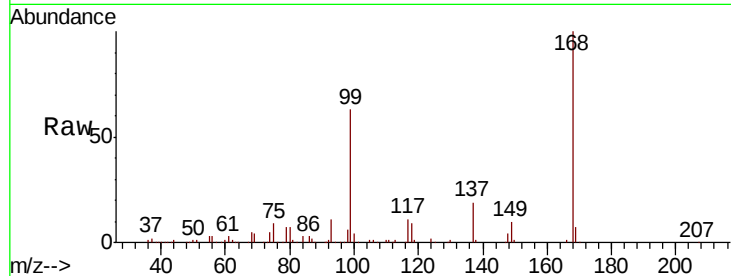
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 403760

Ion Ratio Lower Upper

168 100

99 63.4 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.62

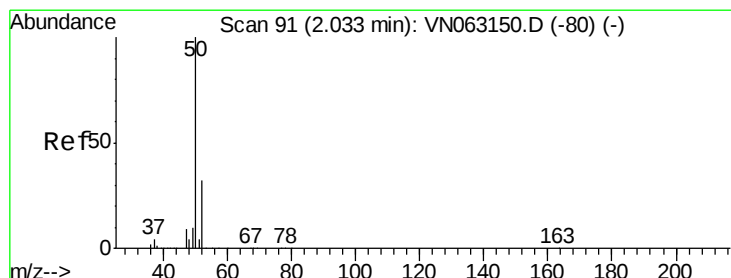
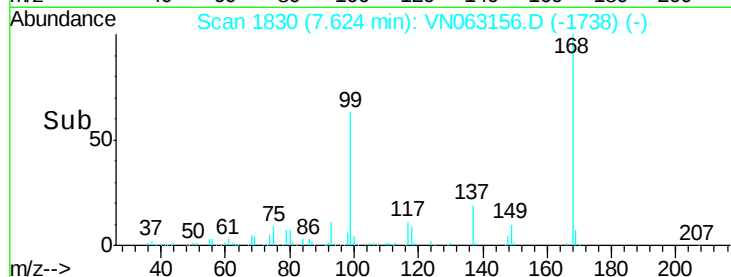
150000

100000

50000

0

Time--> 7.50 7.55 7.60 7.65 7.70



#3

Chloromethane

Concen: 0.469 ug/l

RT: 2.03 min Scan# 91

Delta R.T. 0.00 min

Lab File: VN063156.D

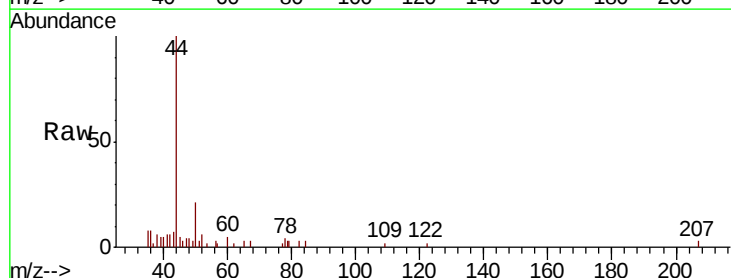
Acq: 1 Sep 2020 15:34

Tgt Ion: 50 Resp: 2714

Ion Ratio Lower Upper

50 100

52 29.6 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.03

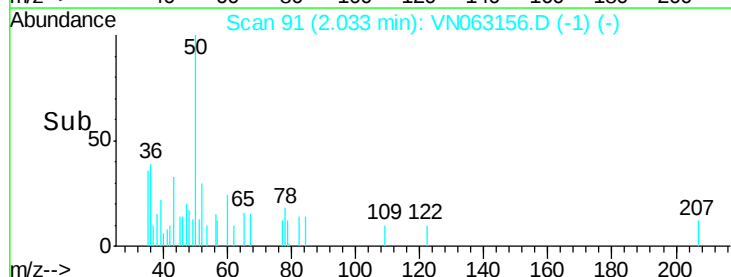
1500

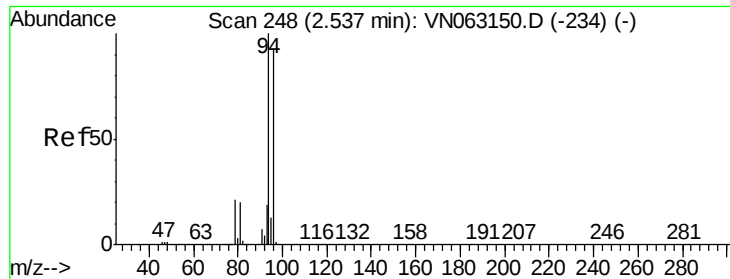
1000

500

0

Time--> 2.00 2.05





#5

Bromomethane

Concen: 0.460 ug/l

RT: 2.54 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN063156.D

Acq: 1 Sep 2020 15:34

Instrument :

MSVOA_N

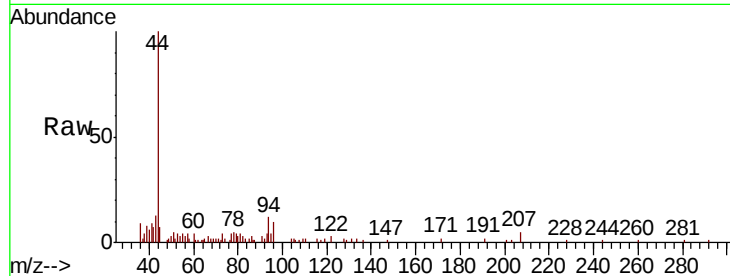
ClientSampled :

Tot Ion: 94 Resp: 2476

Ion Ratio Lower Upper

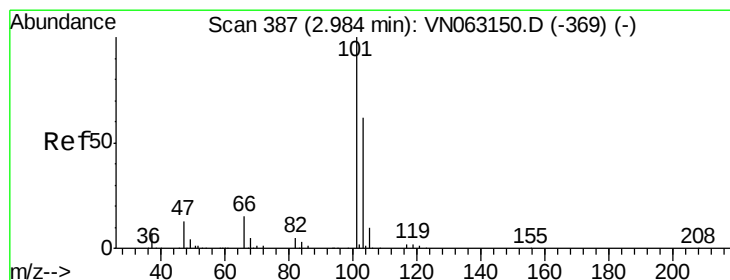
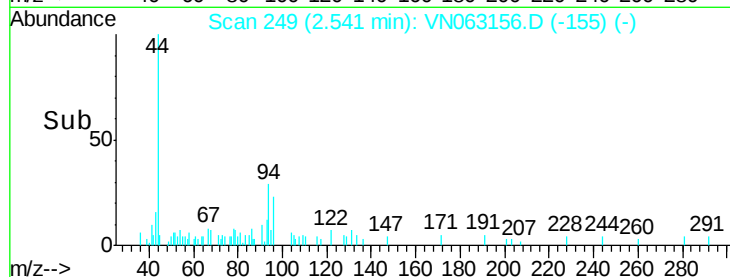
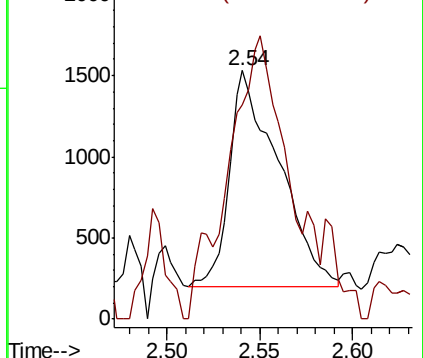
94 100

96 99.0 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: 3.00 min Scan# 391

Delta R.T. 0.01 min

Lab File: VN063156.D

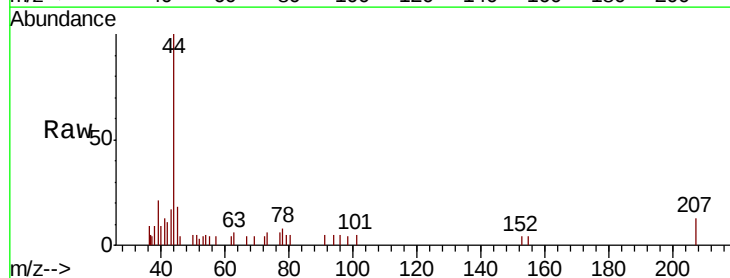
Acq: 1 Sep 2020 15:34

Tgt Ion: 101 Resp: 139

Ion Ratio Lower Upper

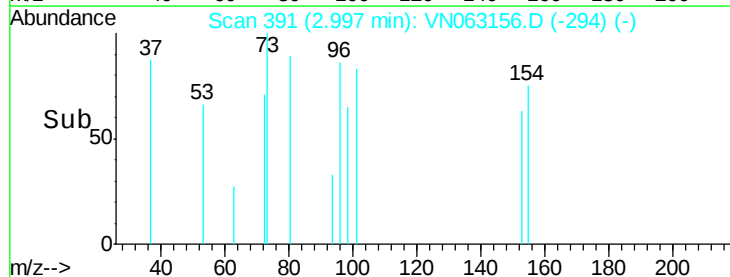
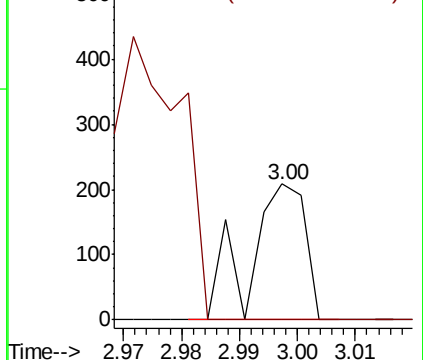
101 100

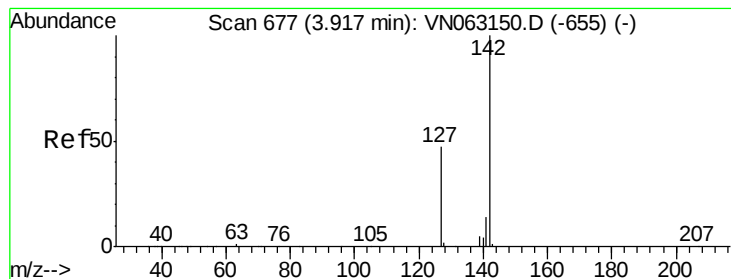
103 0.0 49.7 74.5#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V





#10

Methvl Iodide

Concen: 0.276 ug/l

RT: 3.91 min Scan# 676

Delta R.T. -0.00 min

Lab File: VN063156.D

Acq: 1 Sep 2020 15:34

Instrument :

MSVOA_N

ClientSampled :

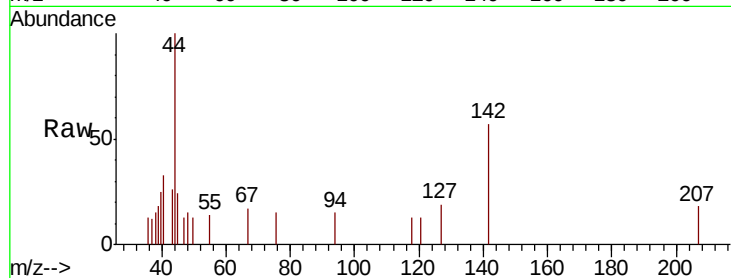
Tot Ion:142 Resp: 1639

Ion Ratio Lower Upper

142 100

127 21.5 37.6 56.4#

141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.91

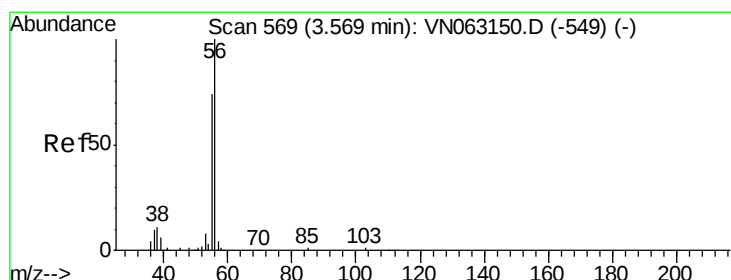
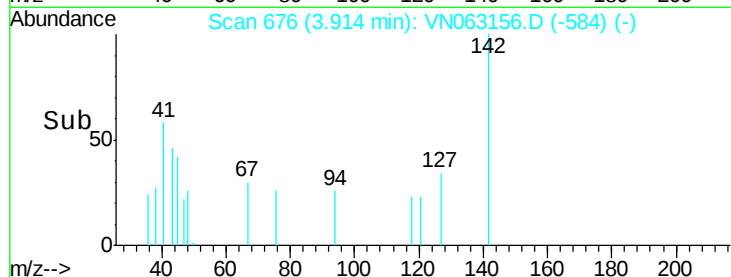
600

400

200

0

Time--> 3.85 3.90 3.95



#13

Acrolein

Concen: 15.951 ug/l

RT: 3.56 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN063156.D

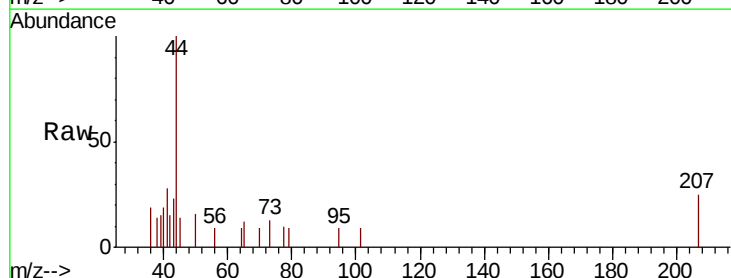
Acq: 1 Sep 2020 15:34

Tgt Ion: 56 Resp: 60

Ion Ratio Lower Upper

56 100

55 281.7 55.4 83.0#



Abundance Ion 56.00 (55.70 to 56.70): V

Ion 55.00 (54.70 to 55.70): V

300

250

200

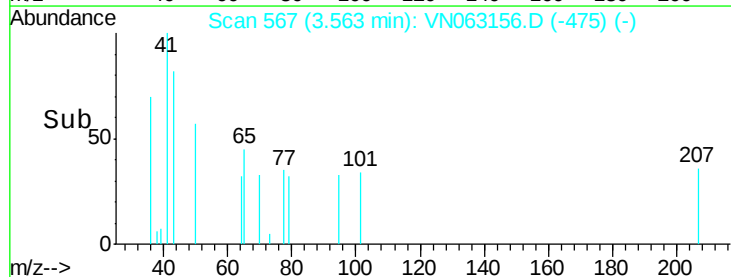
150

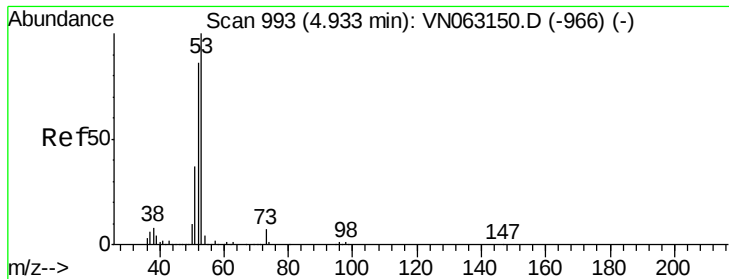
100

50

0

Time--> 3.55 3.56 3.57





#15

Acrylonitrile

Concen: 2.736 ug/l

RT: 4.93 min Scan# 993

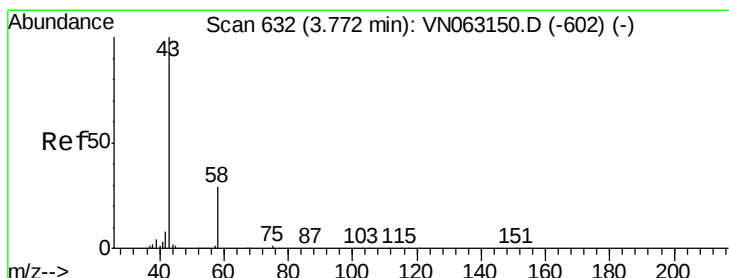
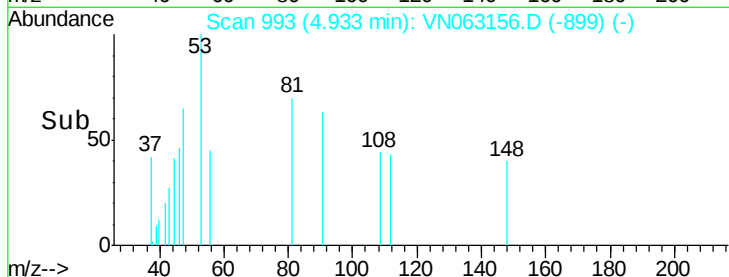
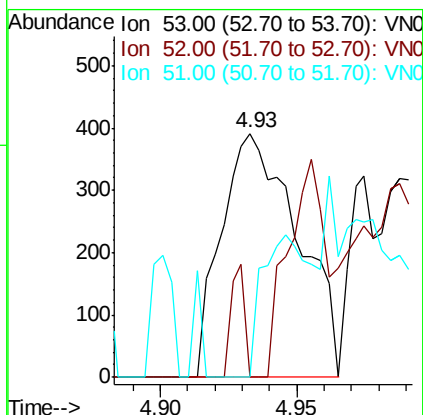
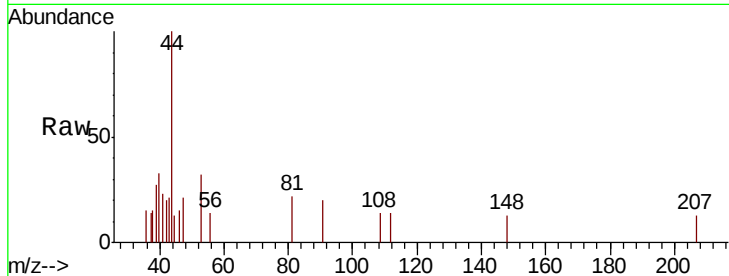
Delta R.T. 0.00 min

Lab File: VN063156.D

Acq: 1 Sep 2020 15:34

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	53	Resp:	761
Ion	Ratio	Lower	Upper
53	100		
52	8.5	67.2	100.8#
51	34.7	30.2	45.4



#16

Acetone

Concen: 0.351 ug/l

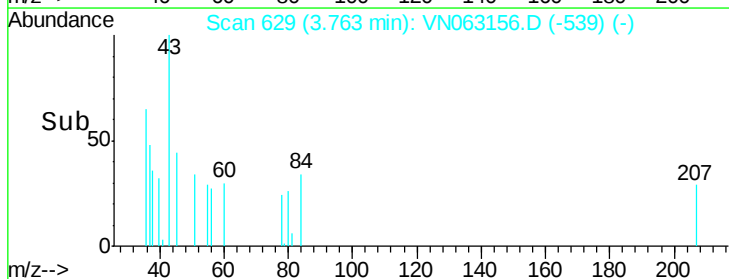
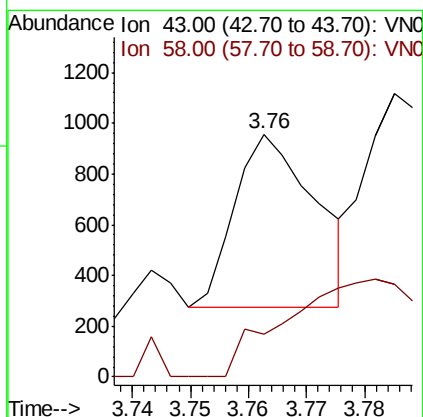
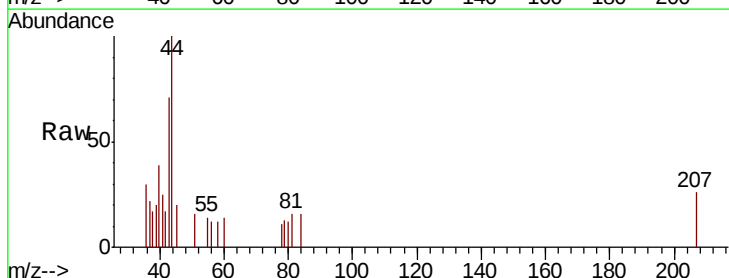
RT: 3.76 min Scan# 629

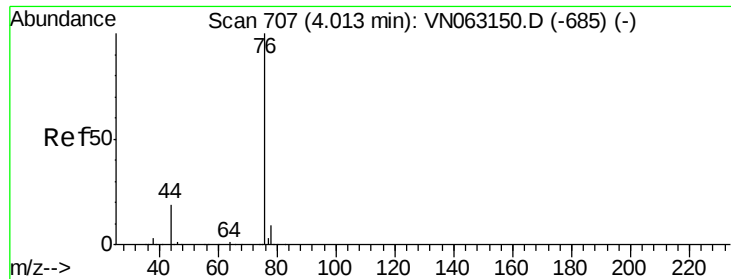
Delta R.T. -0.01 min

Lab File: VN063156.D

Acq: 1 Sep 2020 15:34

Tgt Ion:	43	Resp:	659
Ion	Ratio	Lower	Upper
43	100		
58	24.5	23.1	34.7

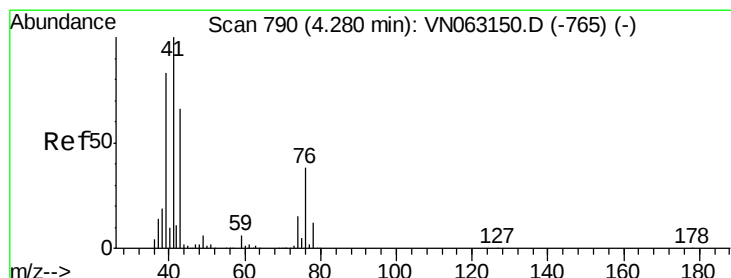
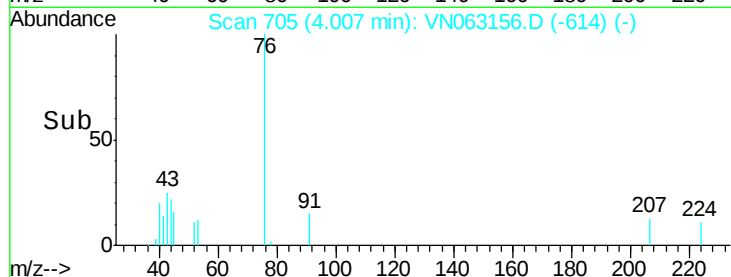
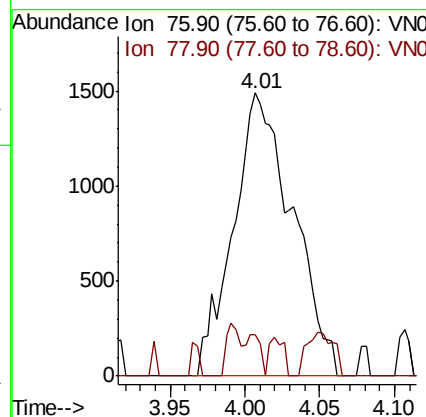
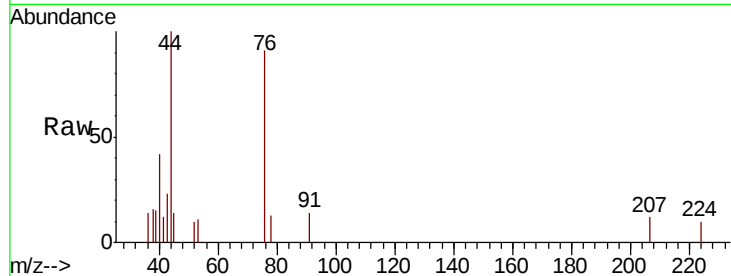




#17
Carbon Disulfide
Concen: 0.312 ug/l
RT: 4.01 min Scan# 705
Delta R.T. -0.01 min
Lab File: VN063156.D
Acq: 1 Sep 2020 15:34

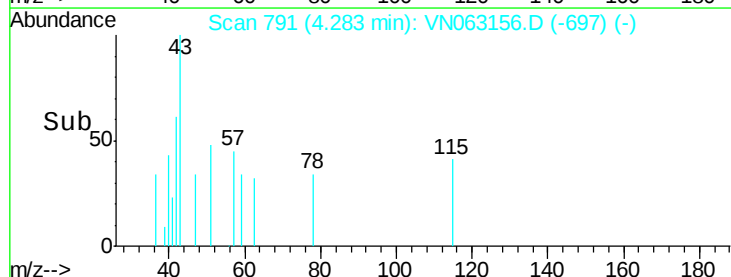
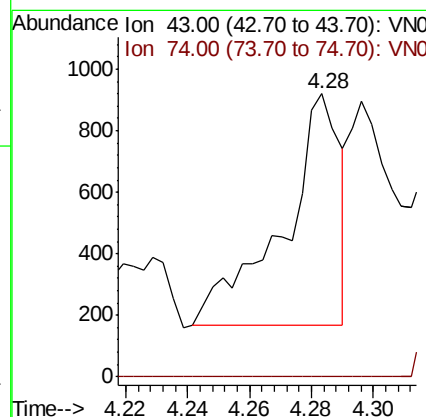
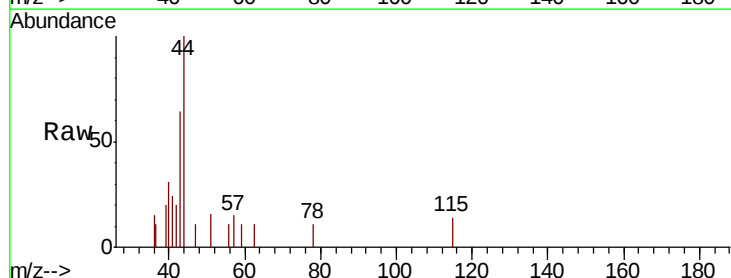
Instrument :
MSVOA_N
ClientSampleId :

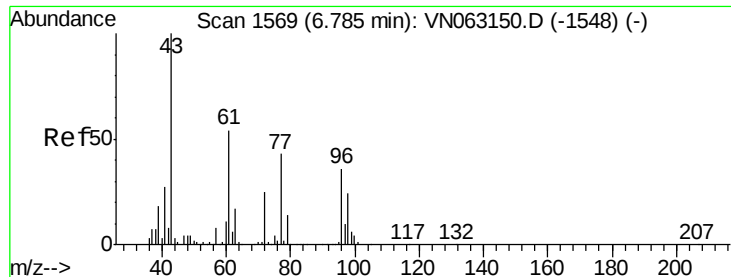
Tot Ion: 76 Resp: 4118
Ion Ratio Lower Upper
76 100
78 14.8 7.5 11.3#



#18
Methyl Acetate
Concen: 0.201 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.00 min
Lab File: VN063156.D
Acq: 1 Sep 2020 15:34

Tgt Ion: 43 Resp: 969
Ion Ratio Lower Upper
43 100
74 0.0 19.0 28.6#





#25

2-Butanone

Concen: 0.217 ug/l

RT: 6.77 min Scan# 1564

Delta R.T. -0.02 min

Lab File: VN063156.D

Acq: 1 Sep 2020 15:34

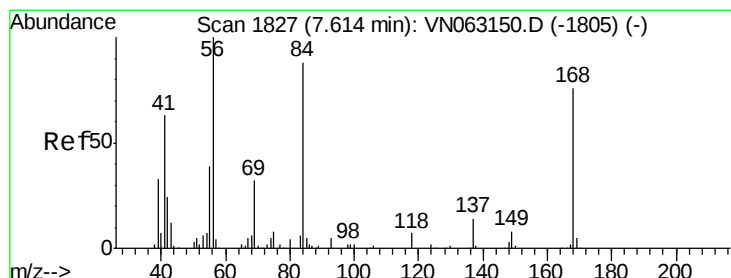
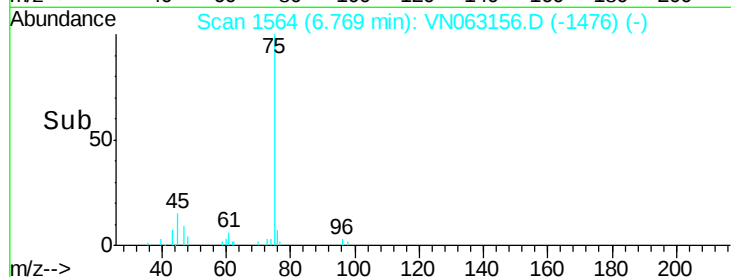
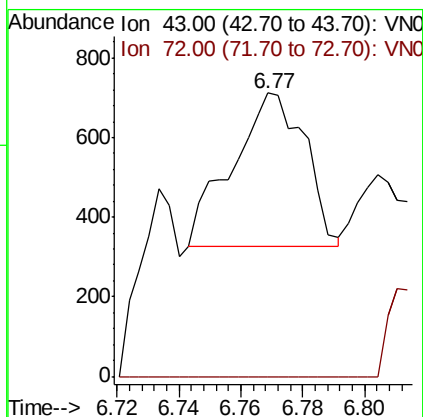
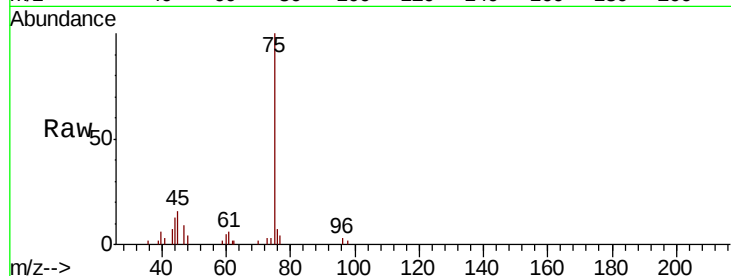
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 630

Ion Ratio Lower Upper

43 100

72 0.0 20.2 30.4#



#31

Cyclohexane

Concen: Below Cal

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063156.D

Acq: 1 Sep 2020 15:34

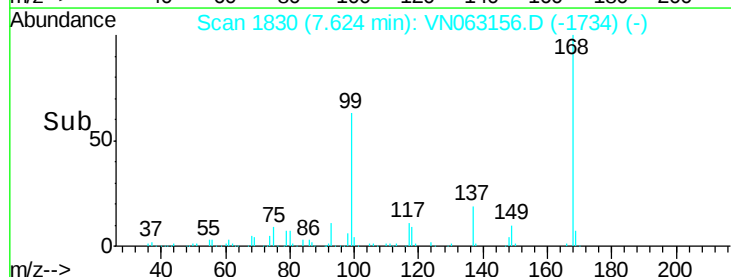
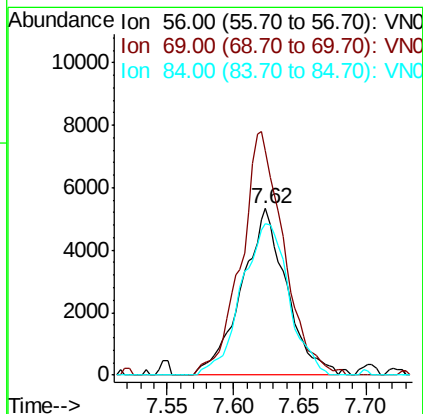
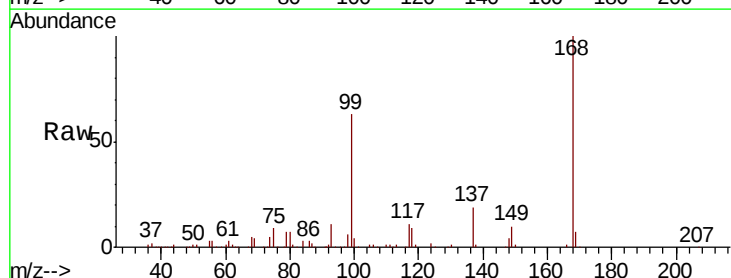
Tgt Ion: 56 Resp: 12582

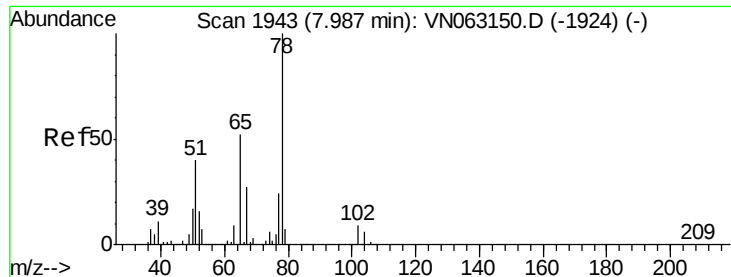
Ion Ratio Lower Upper

56 100

69 134.5 25.4 38.0#

84 91.2 70.2 105.4

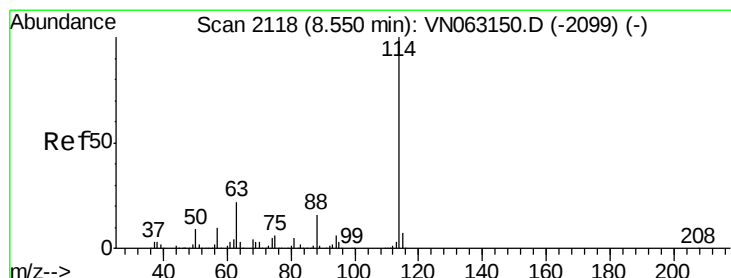
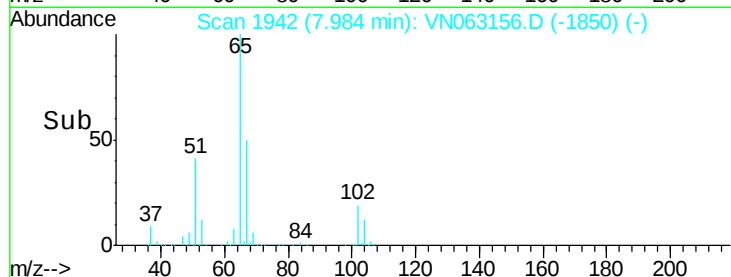
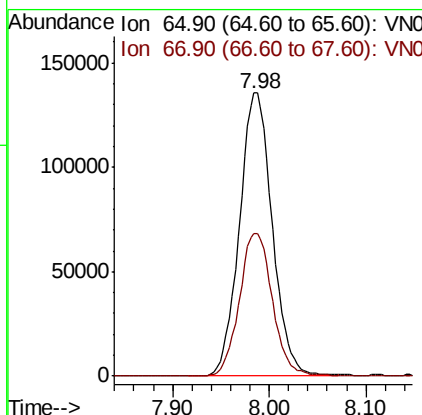
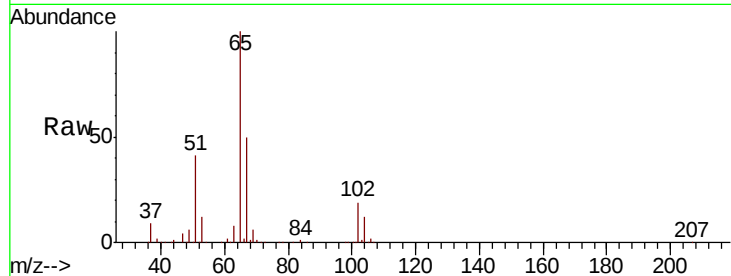




#33
 1,2-Dichloroethane-d4
 Concen: 48.500 ug/l
 RT: 7.98 min Scan# 1942
 Delta R.T. -0.00 min
 Lab File: VN063156.D
 Acq: 1 Sep 2020 15:34

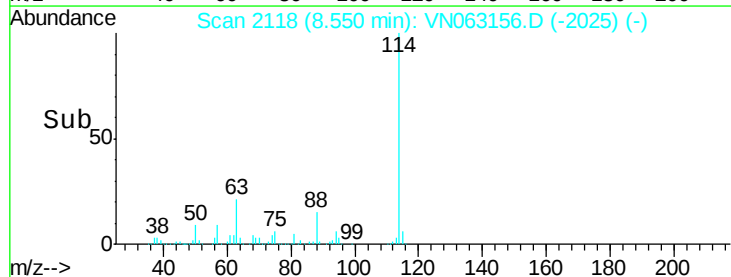
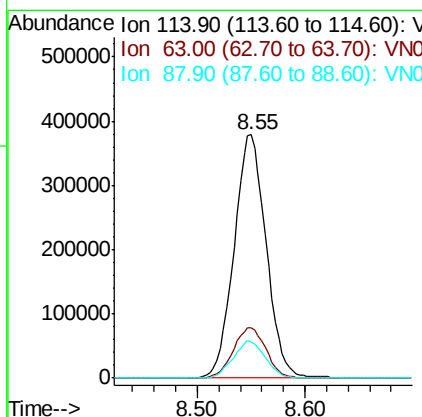
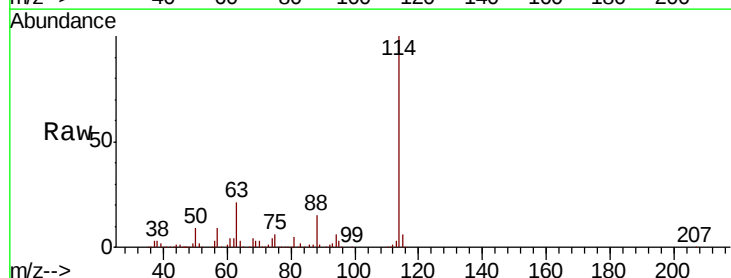
Instrument :
 MSVOA_N
 ClientSampleId :

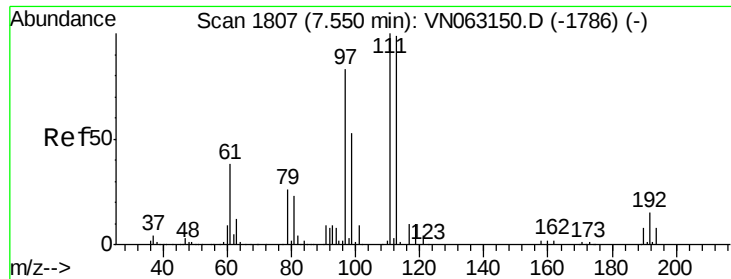
Tot Ion: 65 Resp: 320115
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063156.D
 Acq: 1 Sep 2020 15:34

Tgt Ion: 114 Resp: 783389
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 43.0
 88 15.1 0.0 31.6





#35

Dibromofluoromethane

Concen: 49.187 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN063156.D

Acq: 1 Sep 2020 15:34

Instrument :
MSVOA_N
ClientSampled :

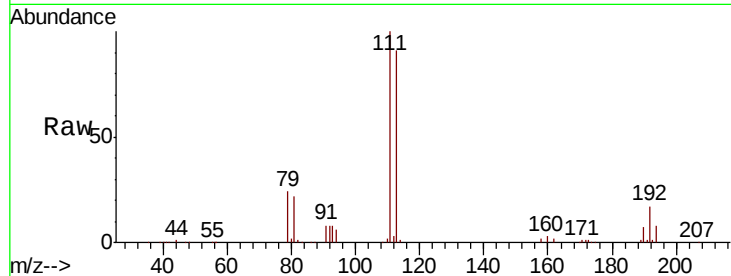
Tot Ion:113 Resp: 247205

Ion Ratio Lower Upper

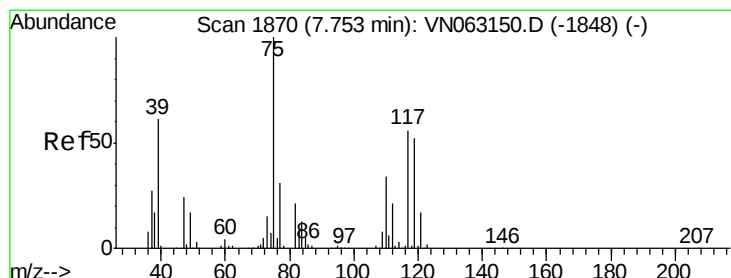
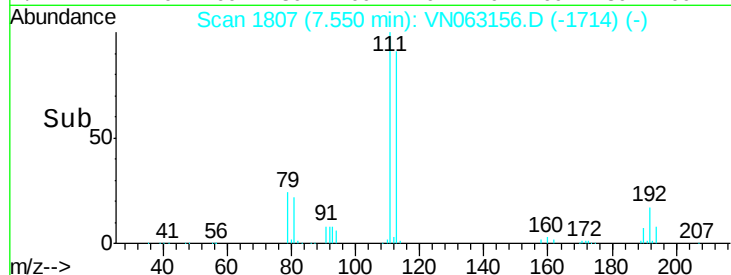
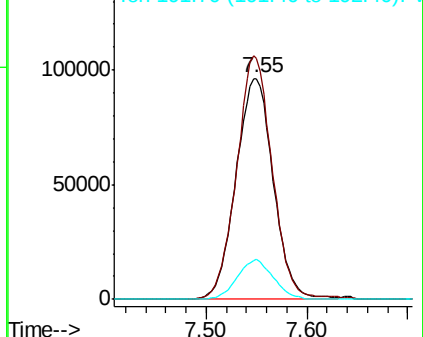
113 100

111 104.9 80.7 121.1

192 17.4 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: 5.103 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN063156.D

Acq: 1 Sep 2020 15:34

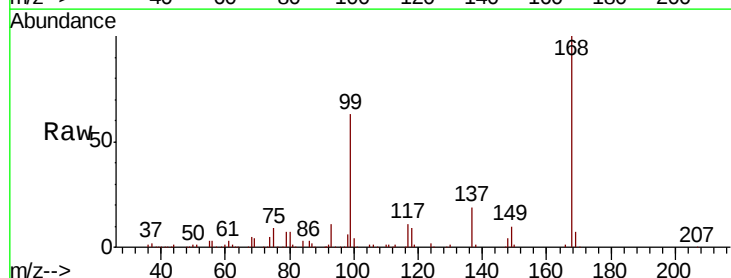
Tgt Ion: 75 Resp: 38434

Ion Ratio Lower Upper

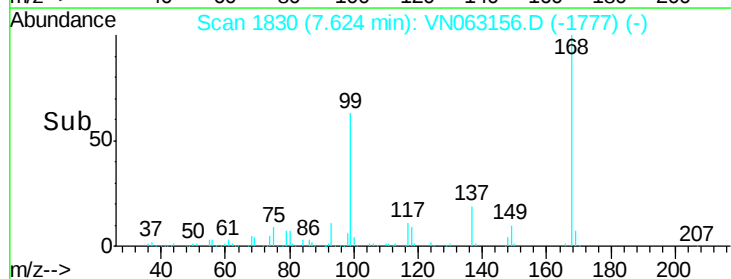
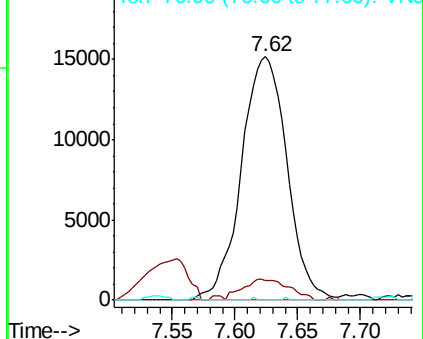
75 100

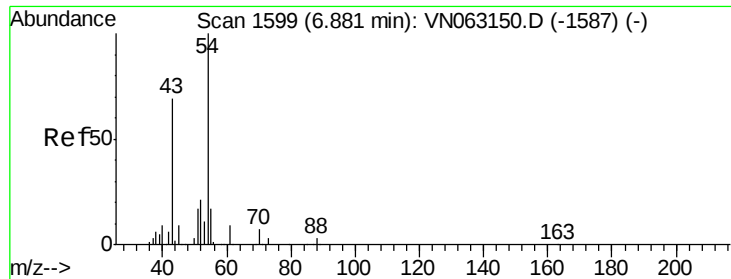
110 8.7 16.6 49.8#

77 0.1 25.4 38.2#



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

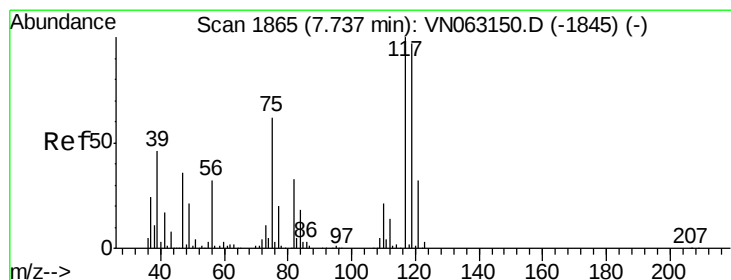
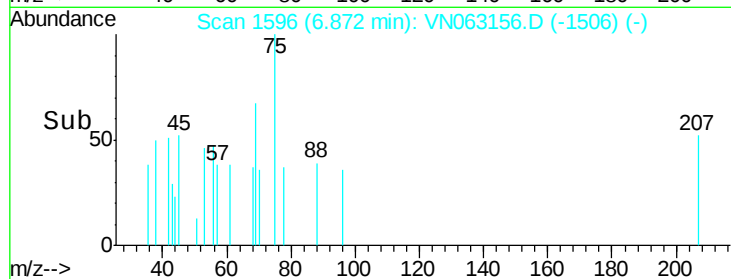
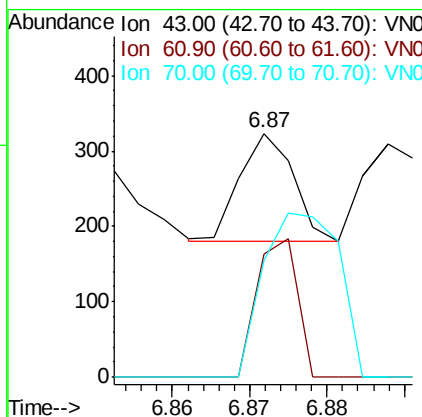
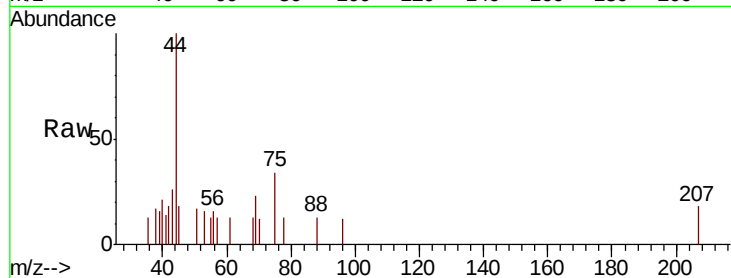




#37
Ethyl Acetate
Concen: 0.390 ug/l
RT: 6.87 min Scan# 1596
Delta R.T. -0.01 min
Lab File: VN063156.D
Acq: 1 Sep 2020 15:34

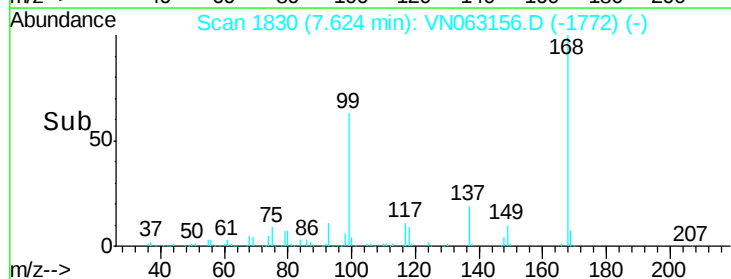
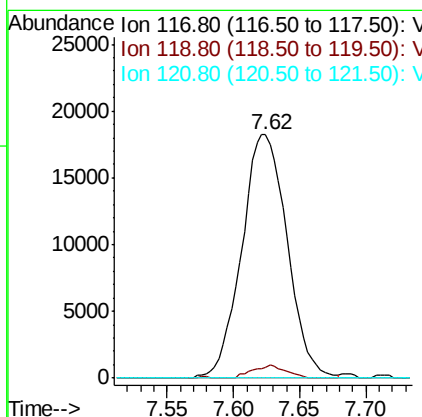
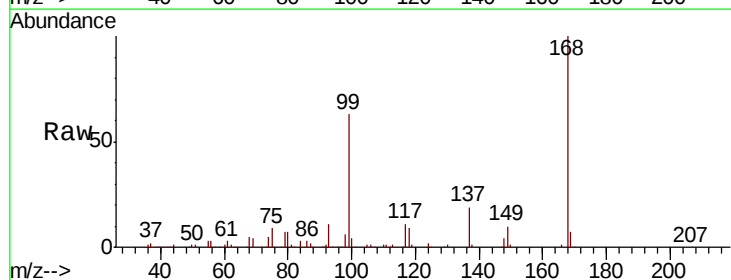
Instrument :
MSVOA_N
ClientSampled :

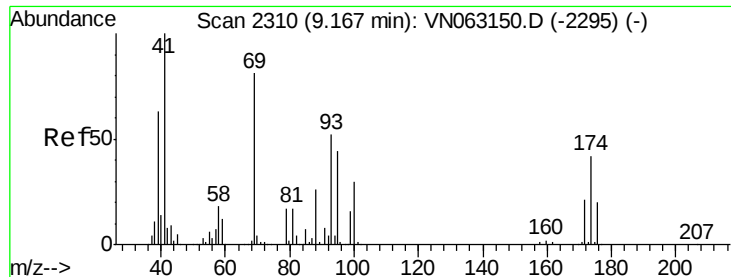
Tot Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
61 98.5 10.2 15.4#
70 216.2 3.0 4.6#



#38
Carbon Tetrachloride
Concen: 5.702 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.11 min
Lab File: VN063156.D
Acq: 1 Sep 2020 15:34

Tgt Ion: 117 Resp: 43549
Ion Ratio Lower Upper
117 100
119 4.6 77.2 115.8#
121 0.0 25.6 38.4#





#49

1,4-Dioxane

Concen: 2.405 ug/l

RT: 9.15 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN063156.D

Acq: 1 Sep 2020 15:34

Instrument :

MSVOA_N

ClientSampled :

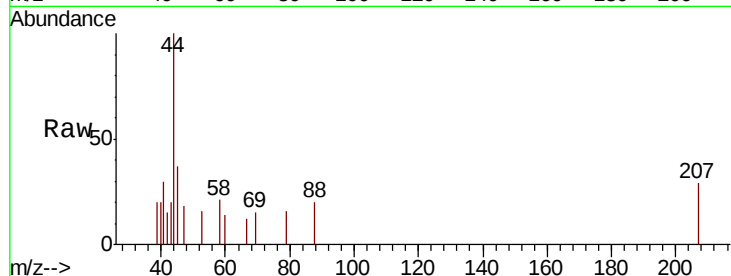
Tot Ion: 88 Resp: 206

Ion Ratio Lower Upper

88 100

43 0.0 28.6 42.8#

58 208.3 53.2 79.8#

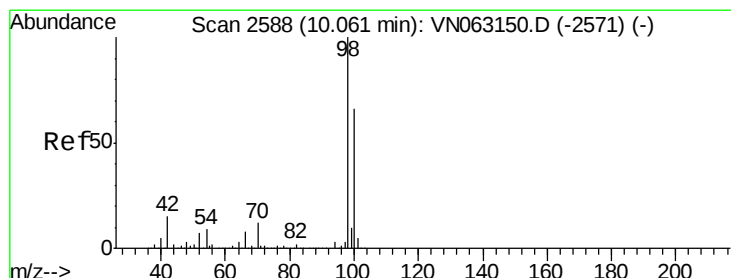
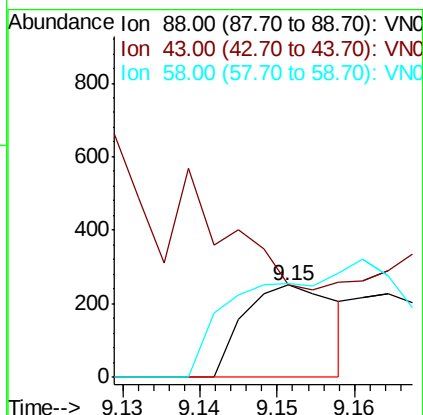
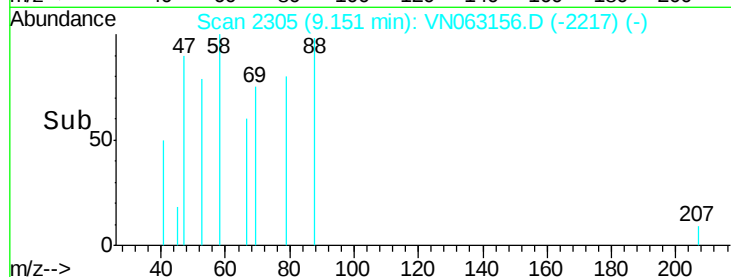


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

Time-->



#50

Toluene-d8

Concen: 50.451 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN063156.D

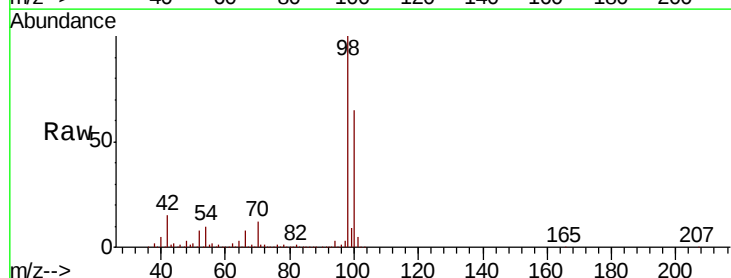
Acq: 1 Sep 2020 15:34

Tgt Ion: 98 Resp: 975947

Ion Ratio Lower Upper

98 100

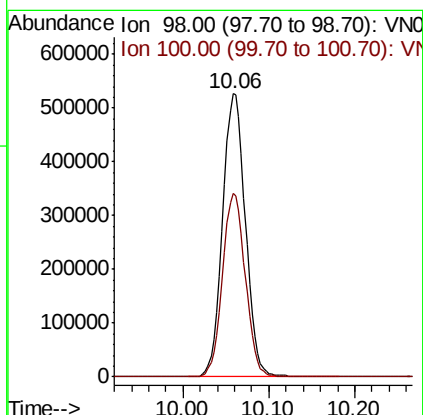
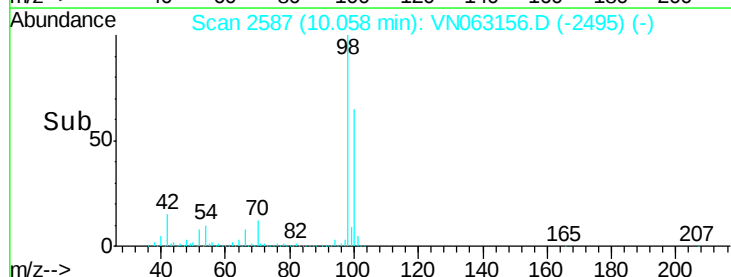
100 64.6 52.0 78.0

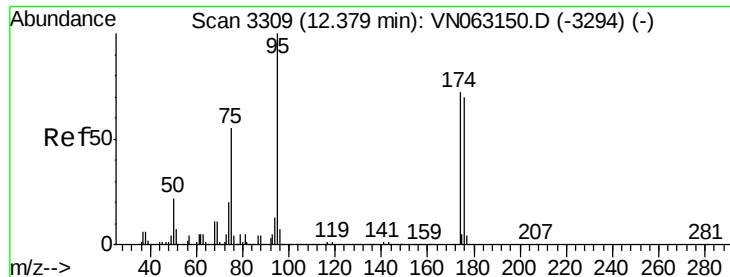


Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

Time-->





#62

4-Bromofluorobenzene

Concen: 51.892 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.00 min

Lab File: VN063156.D

Acq: 1 Sep 2020 15:34

Instrument :

MSVOA_N

ClientSampleId :

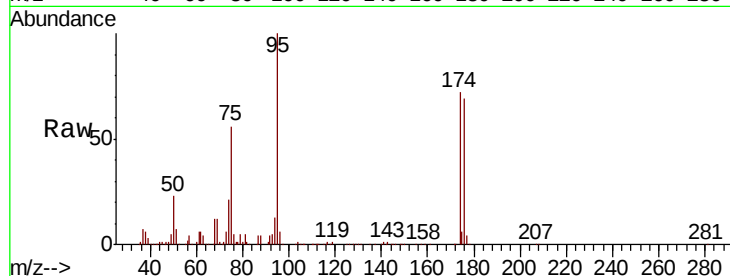
Tot Ion: 95 Resp: 351144

Ion Ratio Lower Upper

95 100

174 71.3 0.0 143.8

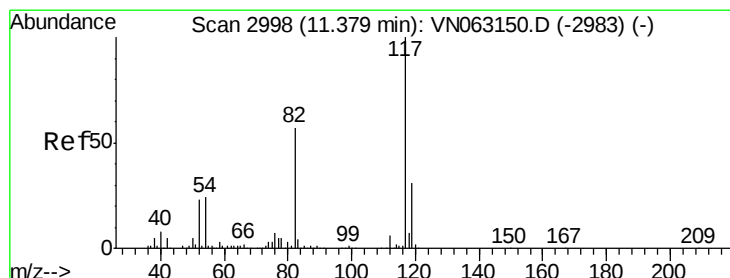
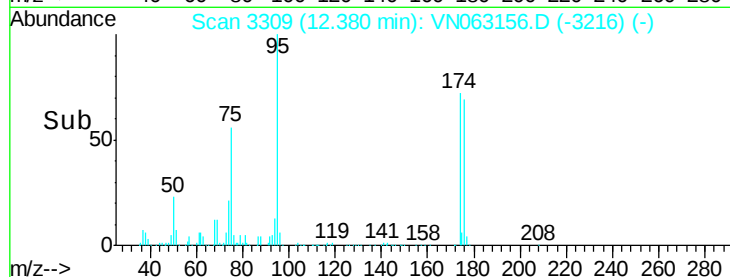
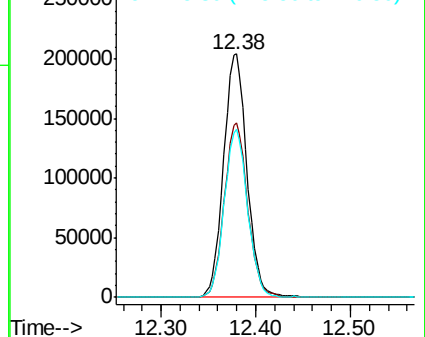
176 68.8 0.0 138.4



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: VN063156.D

Acq: 1 Sep 2020 15:34

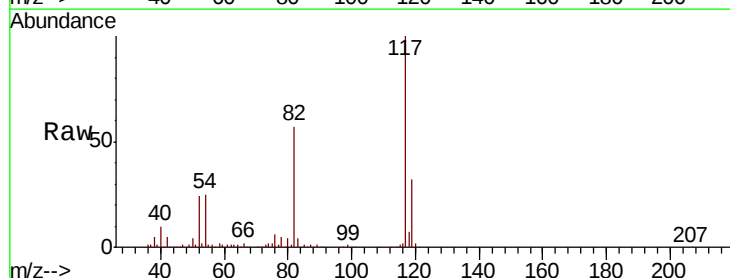
Tgt Ion: 117 Resp: 749322

Ion Ratio Lower Upper

117 100

82 57.2 45.4 68.0

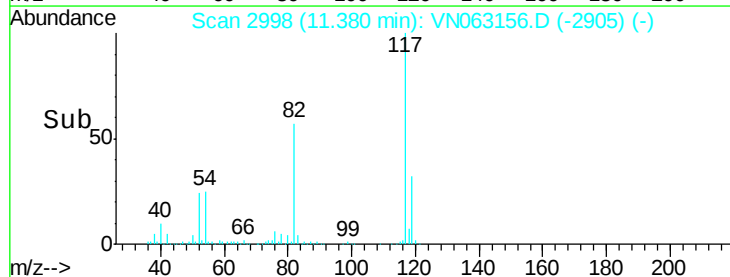
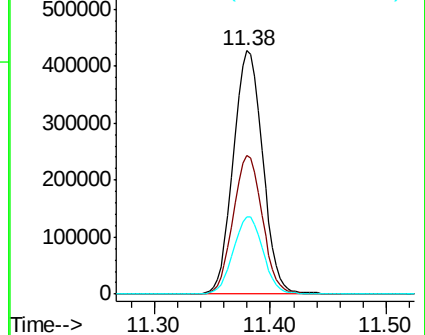
119 31.8 24.6 37.0

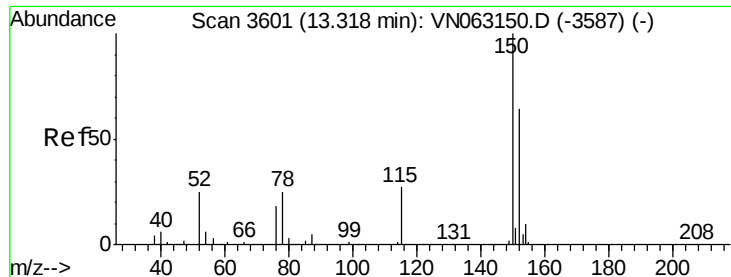


Abundance Ion 116.90 (116.60 to 117.60): VN0

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# 3601

Delta R.T. 0.00 min

Lab File: VN063156.D

Acq: 1 Sep 2020 15:34

Instrument :

MSVOA_N

ClientSampled :

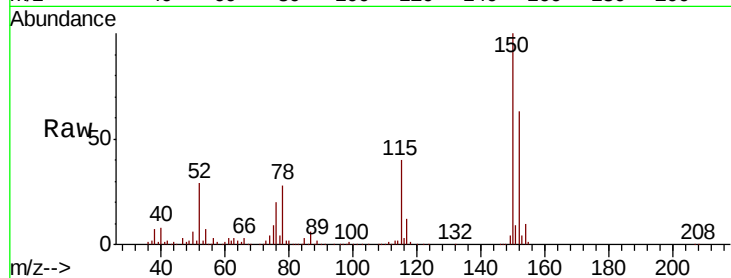
Tot Ion:152 Resp: 301014

Ion Ratio Lower Upper

152 100

115 63.0 32.0 96.2

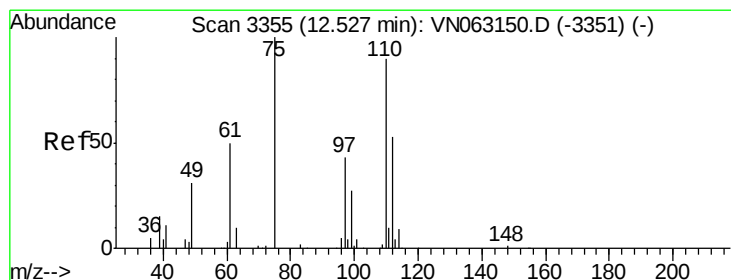
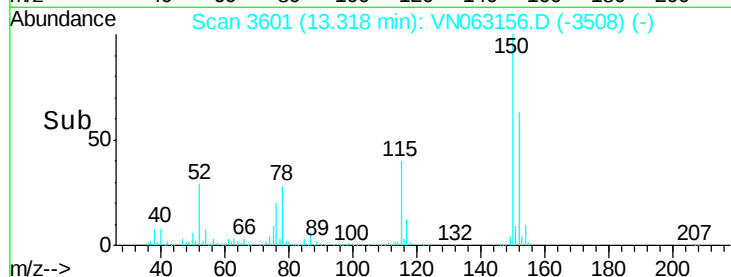
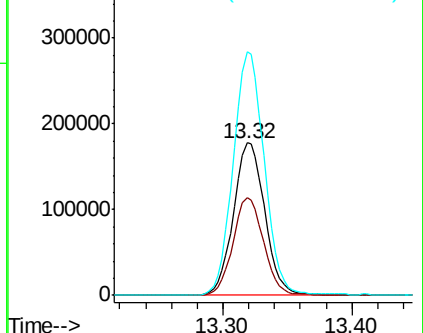
150 157.9 0.0 353.0



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: 33.473 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063156.D

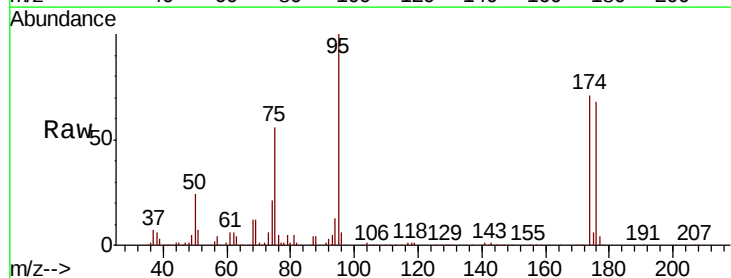
Acq: 1 Sep 2020 15:34

Tgt Ion: 75 Resp: 197969

Ion Ratio Lower Upper

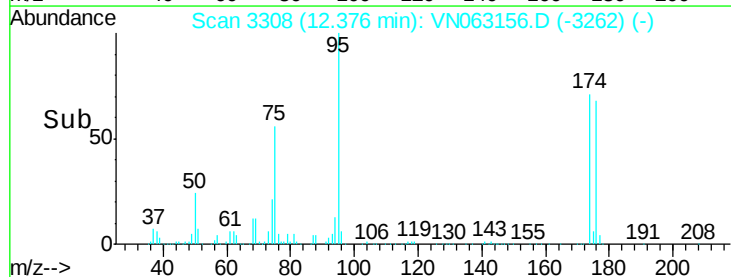
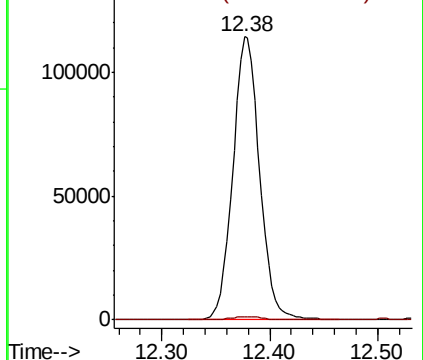
75 100

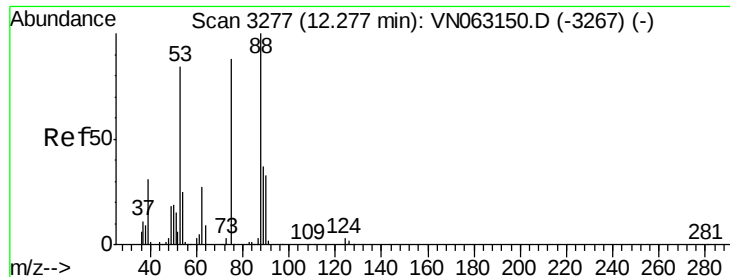
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 80.904 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063156.D

Acq: 1 Sep 2020 15:34

Instrument :

MSVOA_N

ClientSampled :

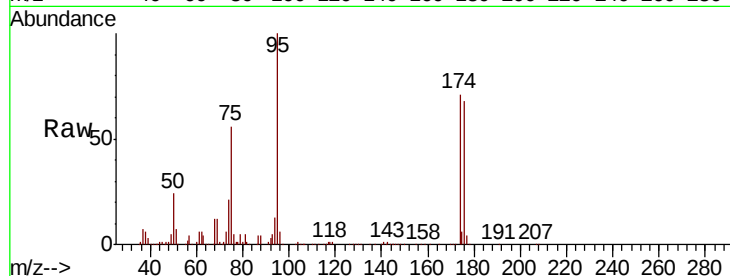
Tot Ion: 75 Resp: 197969

Ion Ratio Lower Upper

75 100

53 0.0 78.7 118.1#

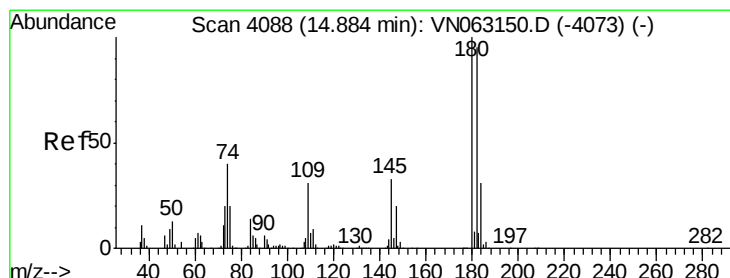
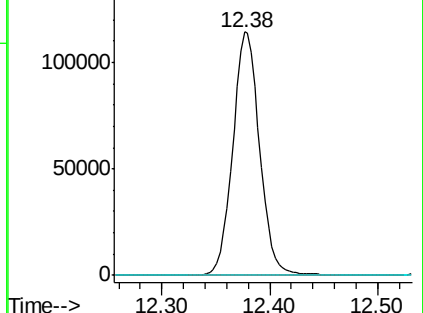
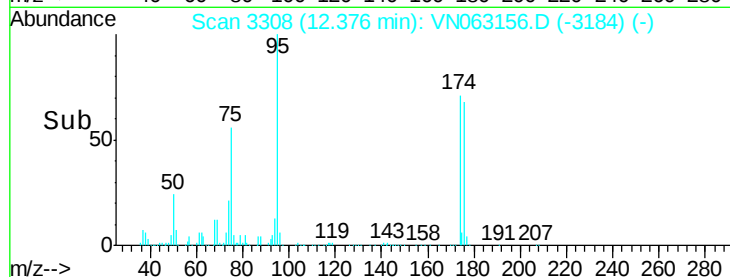
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN063156.D (-3184) (-)

Ion 53.00 (52.70 to 53.70): VN063156.D (-3184) (-)

Ion 88.90 (88.60 to 89.60): VN063156.D (-3184) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.243 ug/l

RT: 14.89 min Scan# 4089

Delta R.T. 0.00 min

Lab File: VN063156.D

Acq: 1 Sep 2020 15:34

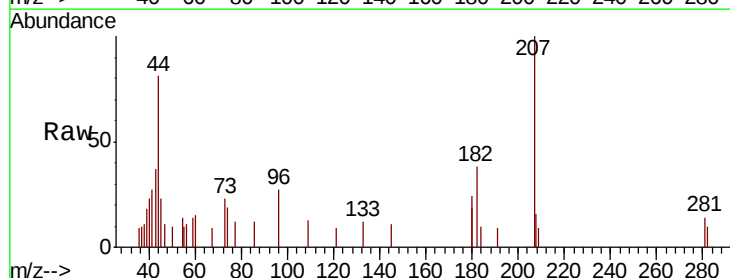
Tgt Ion: 180 Resp: 1262

Ion Ratio Lower Upper

180 100

182 98.9 47.5 142.5

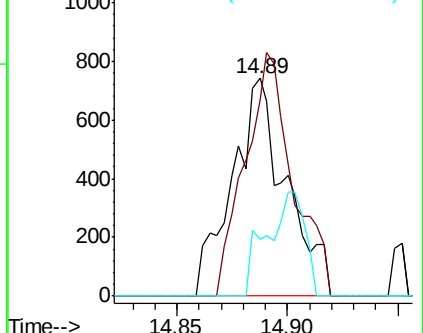
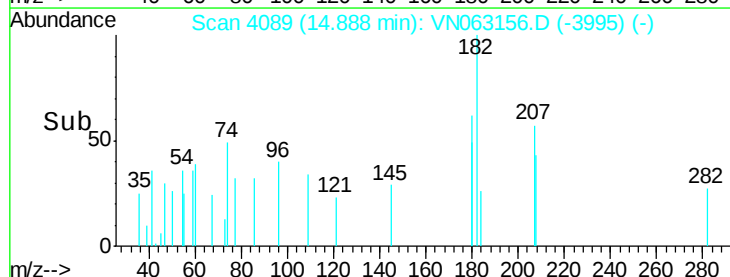
145 33.6 16.6 49.8

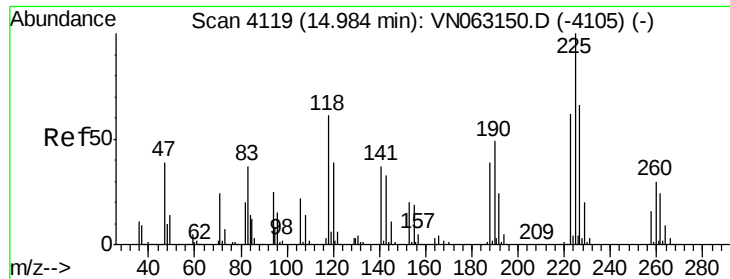


Abundance Ion 179.80 (179.50 to 180.50): VN063156.D (-3995) (-)

Ion 181.80 (181.50 to 182.50): VN063156.D (-3995) (-)

Ion 144.80 (144.50 to 145.50): VN063156.D (-3995) (-)





#94

Hexachlorobutadiene

Concen: 0.272 ug/l

RT: 14.98 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VN063156.D

Acq: 1 Sep 2020 15:34

Instrument :

MSVOA_N

ClientSampled :

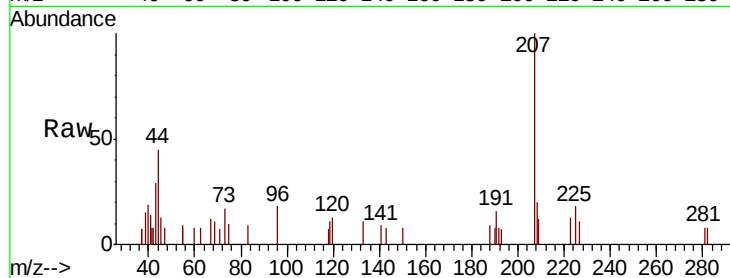
Tot Ion:225 Resp: 528

Ion Ratio Lower Upper

225 100

223 110.8 30.9 92.7#

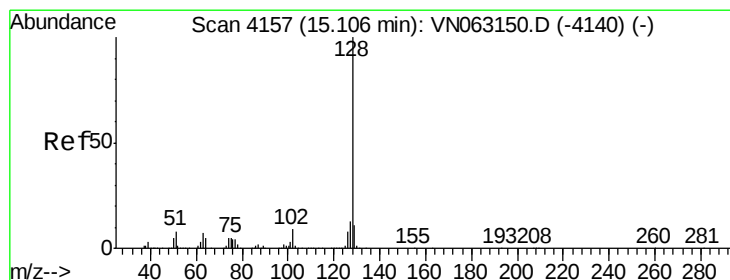
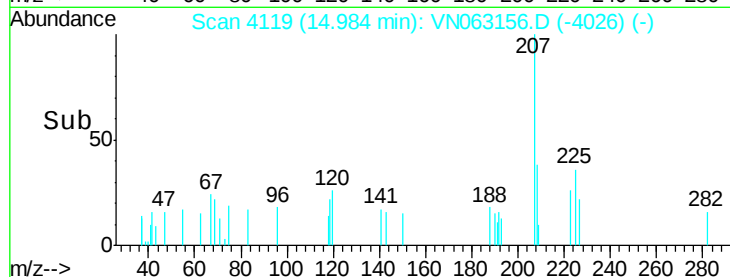
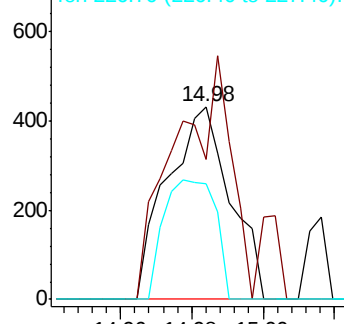
227 50.8 32.9 98.7



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.290 ug/l

RT: 15.11 min Scan# 4158

Delta R.T. 0.00 min

Lab File: VN063156.D

Acq: 1 Sep 2020 15:34

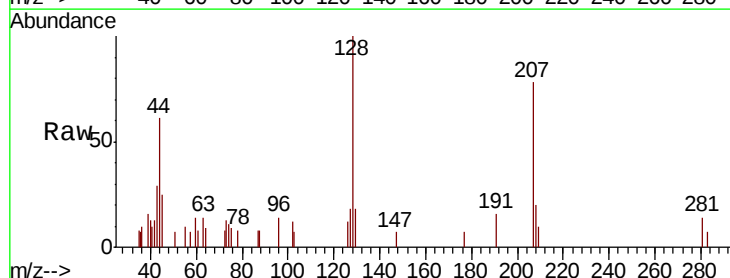
Tgt Ion:128 Resp: 5039

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

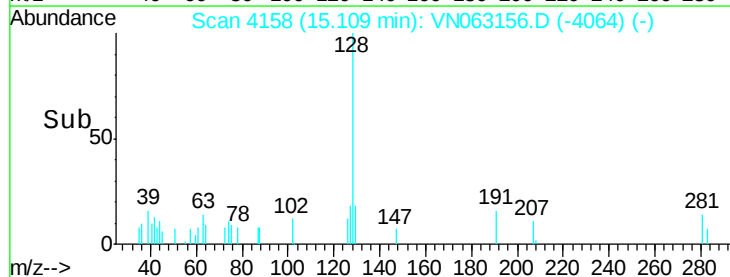
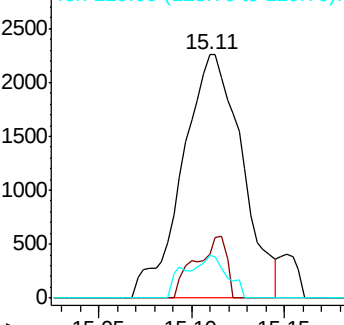
129 12.2 8.6 13.0

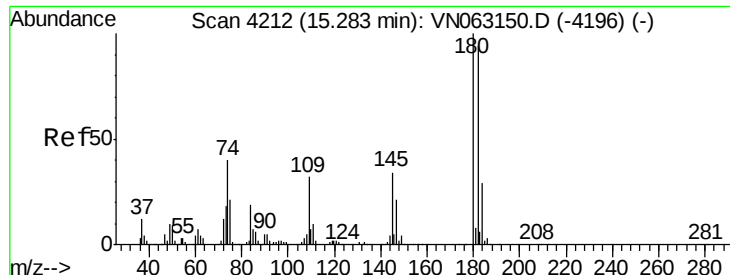


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

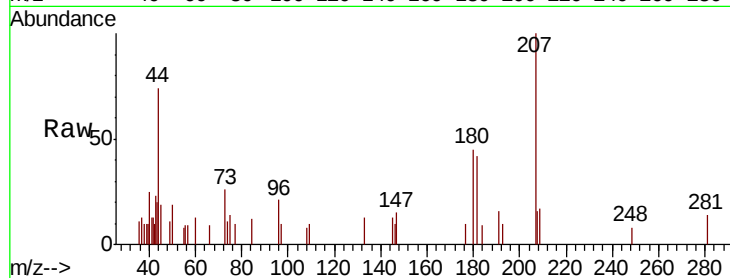




#96
 1,2,3-Trichlorobenzene
 Concen: 0.284 ug/l
 RT: 15.29 min Scan# 4214
 Delta R.T. 0.01 min
 Lab File: VN063156.D
 Acq: 1 Sep 2020 15:34

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	47.5	142.5
145	21.6	17.3	52.0



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

