

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110420\
 Data File : VN064439.D
 Acq On : 4 Nov 2020 16:24
 Operator : JC/MD
 Sample : L4627-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 05 00:47:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 12:09:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	269563	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	527166	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	538559	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	202835	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	245142	52.21	ug/l	0.00
Spiked Amount						
			Recovery	=	104.42%	
35) Dibromofluoromethane	7.55	113	171676	47.83	ug/l	0.00
Spiked Amount						
			Recovery	=	95.66%	
50) Toluene-d8	10.06	98	681296	49.11	ug/l	0.00
Spiked Amount						
			Recovery	=	98.22%	
62) 4-Bromofluorobenzene	12.38	95	265481	50.60	ug/l	0.00
Spiked Amount						
			Recovery	=	101.20%	

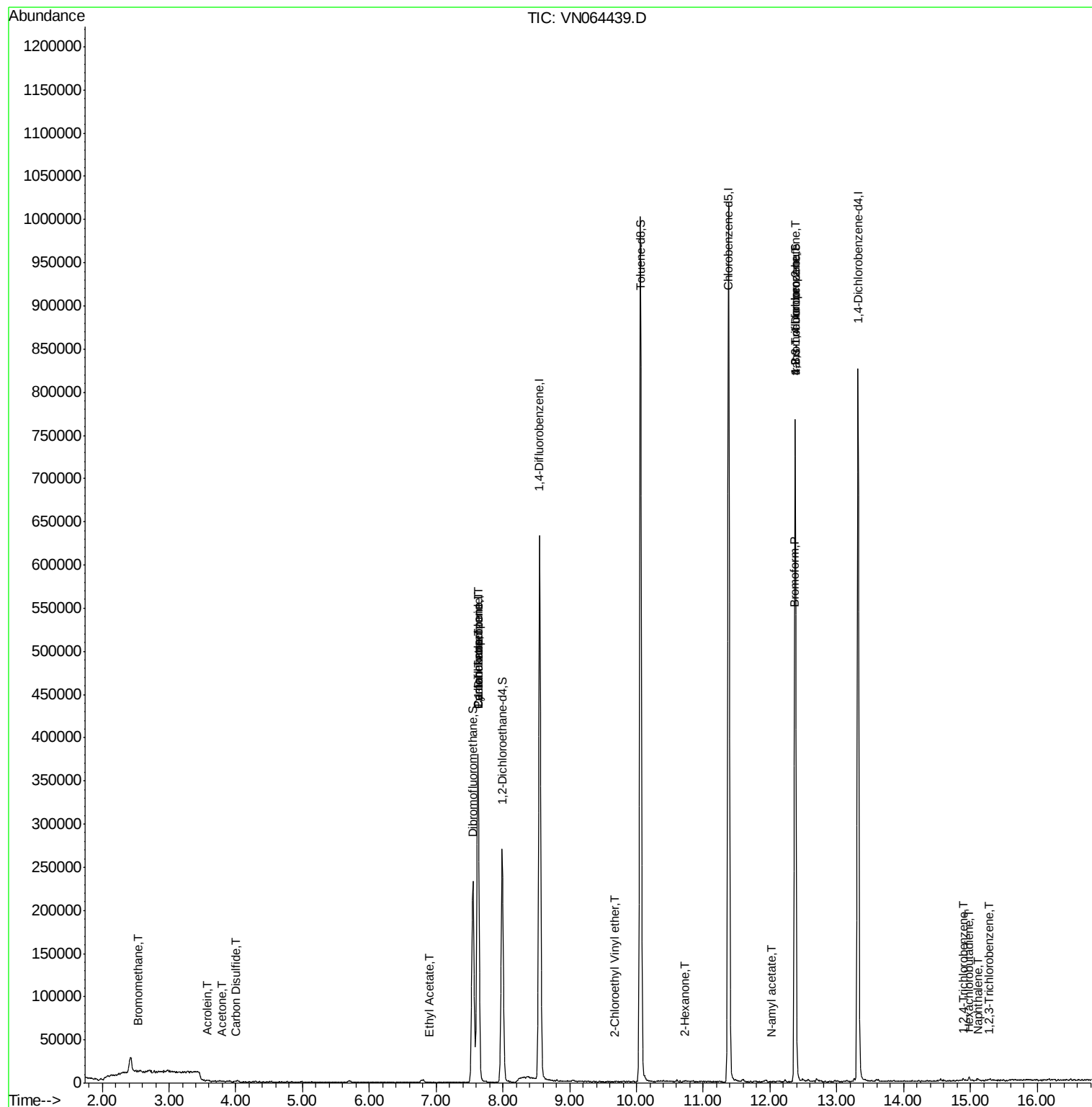
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.53	94	837	0.299	ug/l	83
13) Acrolein	3.57	56	504	1.569	ug/l	91
16) Acetone	3.78	43	853	0.477	ug/l #	48
17) Carbon Disulfide	4.00	76	1874	0.217	ug/l #	69
31) Cyclohexane	7.63	56	8120	1.423	ug/l #	40
36) 1,1-Dichloropropene	7.63	75	25895	4.650	ug/l #	49
37) Ethyl Acetate	6.89	43	182	0.794	ug/l #	71
38) Carbon Tetrachloride	7.62	117	31251	5.250	ug/l #	16
58) 2-Chloroethyl Vinyl ether	9.67	63	95	21.567	ug/l #	51
59) 2-Hexanone	10.74	43	749	4.200	ug/l #	62
71) Bromoform	12.36	173	50	1.290	ug/l #	29
74) N-amyl acetate	12.02	43	107	1.228	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	146248	29.758	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	146248	83.089	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.88	180	515	2.814	ug/l #	27
94) Hexachlorobutadiene	14.98	225	872	0.654	ug/l #	67
95) Naphthalene	15.11	128	2779	3.855	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.28	180	856	3.032	ug/l	92

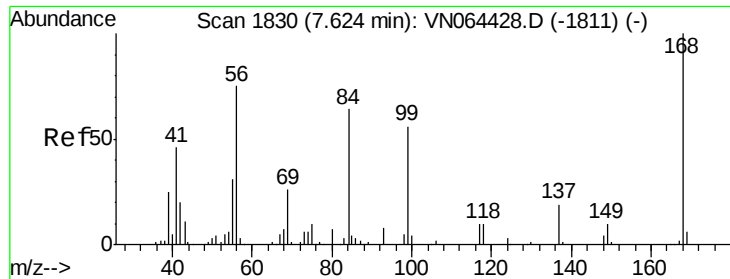
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064439.D

Acq: 4 Nov 2020 16:24

Instrument :

MSVOA_N

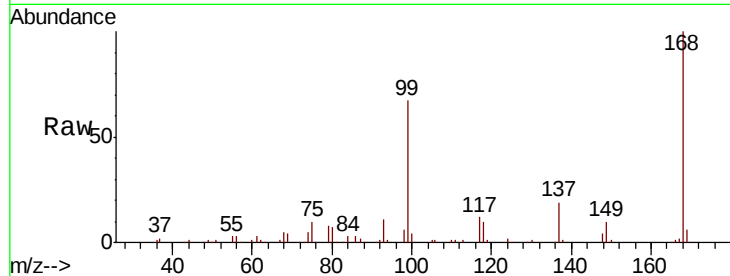
ClientSampled :

Tot Ion:168 Resp: 269563

Ion Ratio Lower Upper

168 100

99 66.8 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

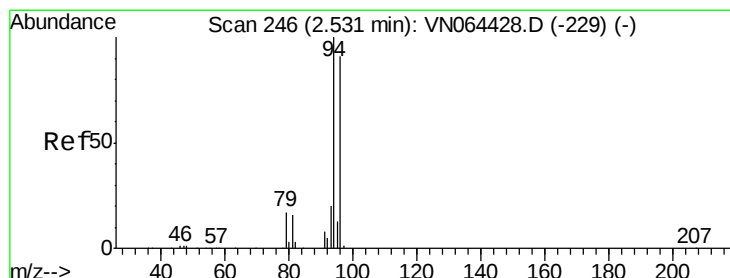
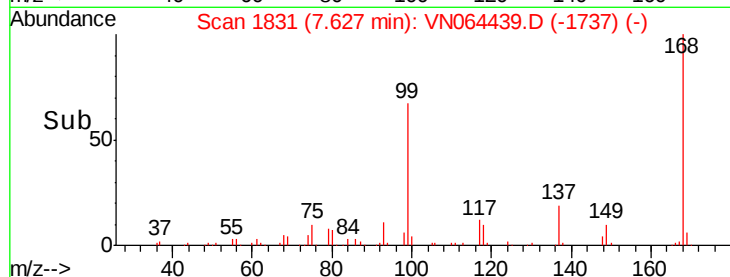
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: 0.299 ug/l

RT: 2.53 min Scan# 246

Delta R.T. -0.00 min

Lab File: VN064439.D

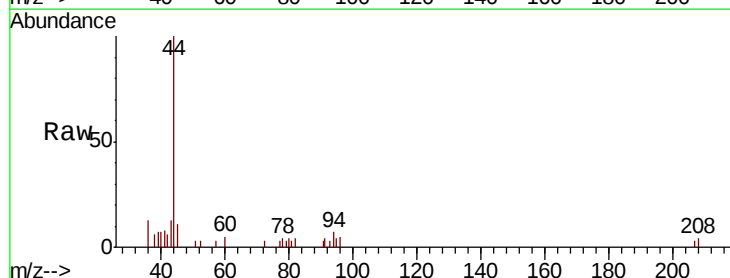
Acq: 4 Nov 2020 16:24

Tgt Ion: 94 Resp: 837

Ion Ratio Lower Upper

94 100

96 107.8 73.1 109.7



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.53

500

400

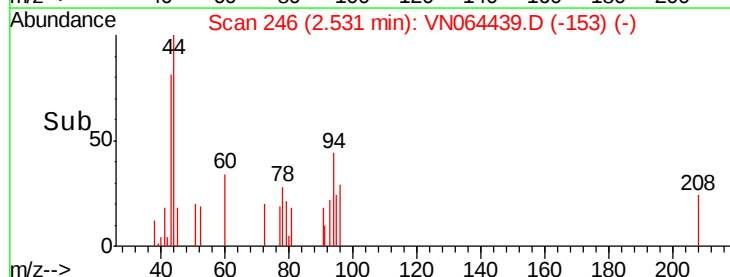
300

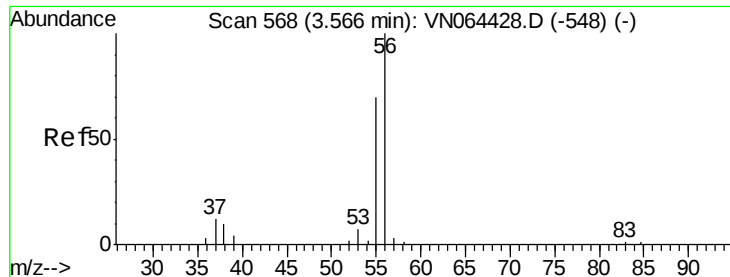
200

100

0

Time--> 2.50 2.52 2.54 2.56 2.58

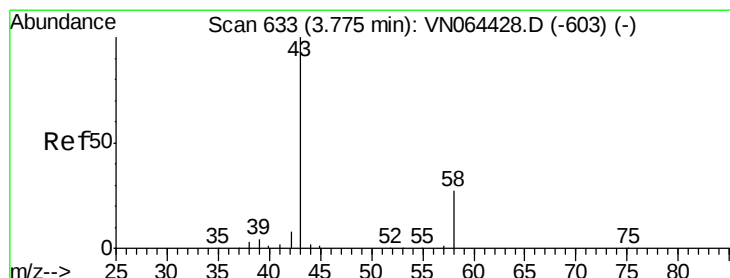
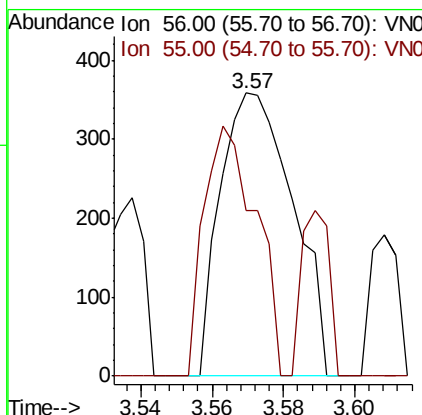
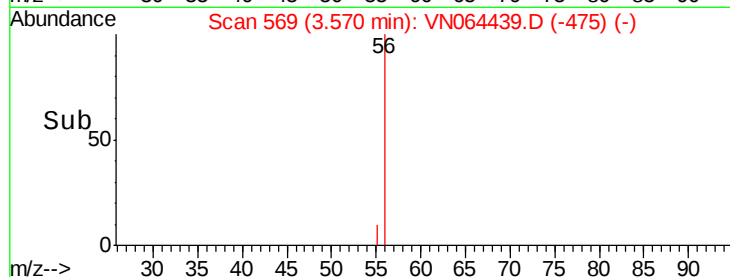
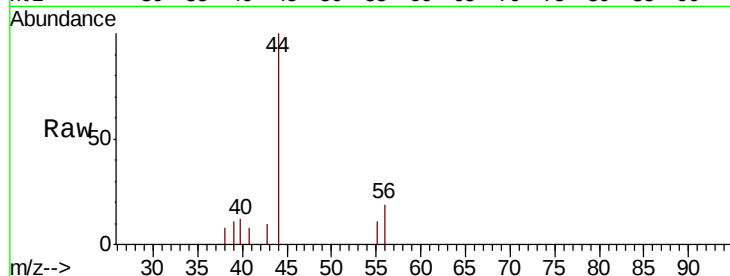




#13
Acrolein
Concen: 1.569 ug/l
RT: 3.57 min Scan# 569
Delta R.T. 0.00 min
Lab File: VN064439.D
Acq: 4 Nov 2020 16:24

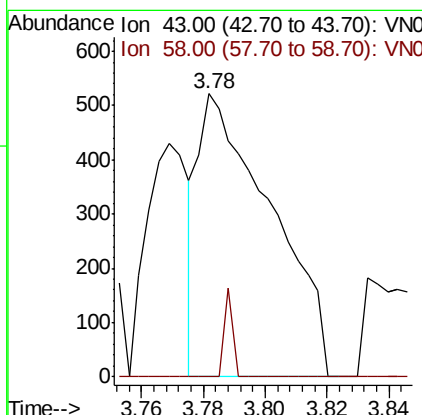
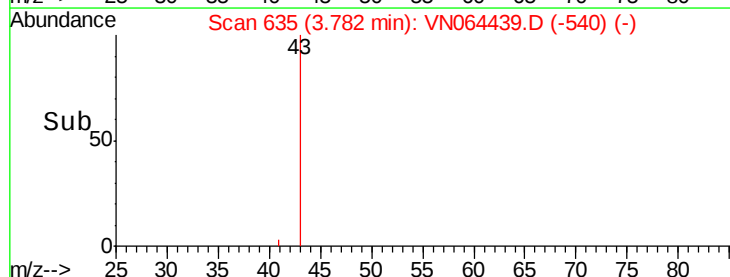
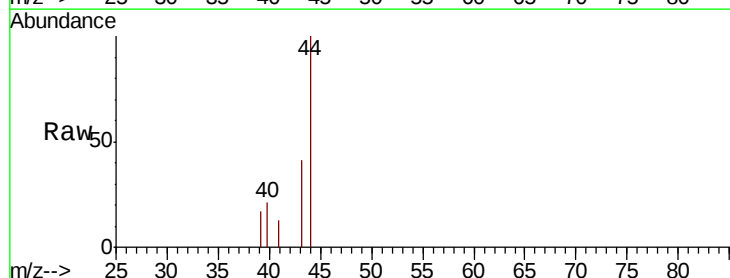
Instrument :
MSVOA_N
ClientSampled :

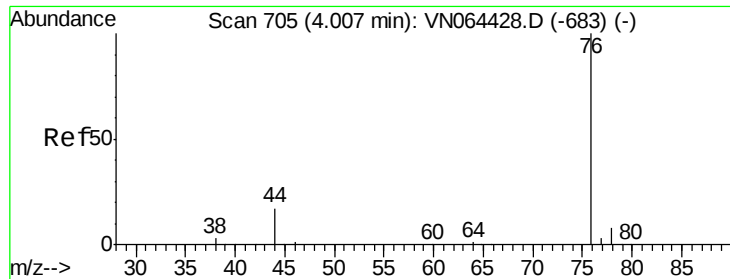
Tot Ion: 56 Resp: 504
Ion Ratio Lower Upper
56 100
55 62.9 55.9 83.9



#16
Acetone
Concen: 0.477 ug/l
RT: 3.78 min Scan# 635
Delta R.T. 0.01 min
Lab File: VN064439.D
Acq: 4 Nov 2020 16:24

Tgt Ion: 43 Resp: 853
Ion Ratio Lower Upper
43 100
58 0.0 21.4 32.0#

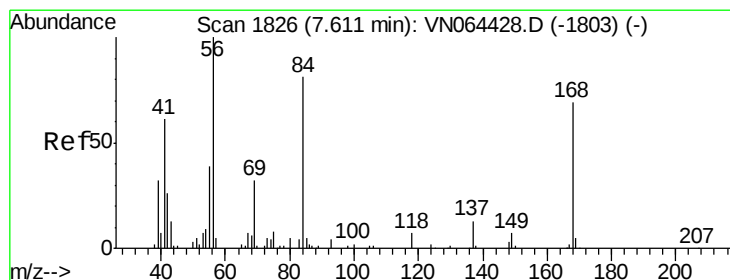
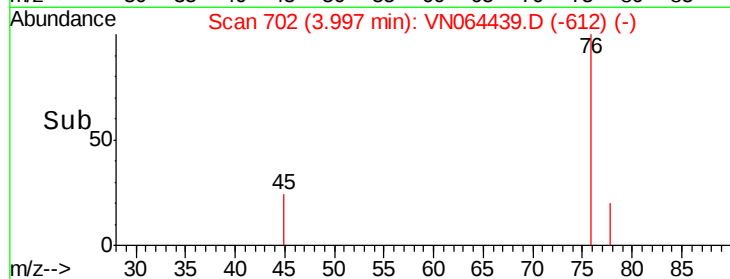
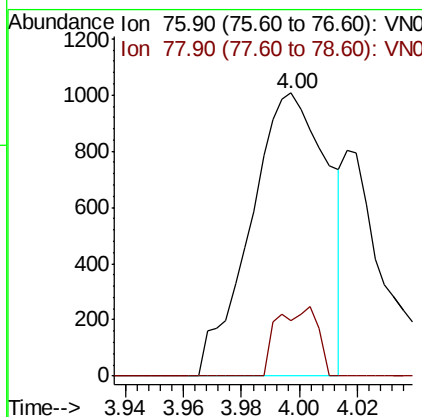
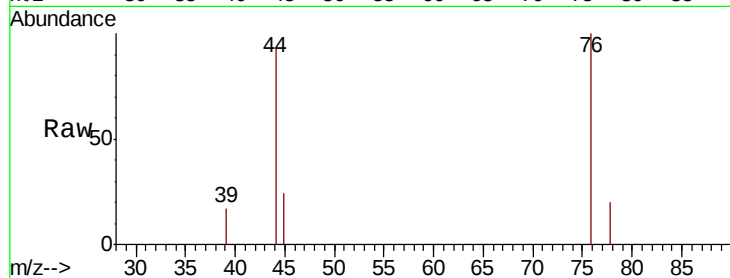




#17
Carbon Disulfide
Concen: 0.217 ug/l
RT: 4.00 min Scan# 702
Delta R.T. -0.01 min
Lab File: VN064439.D
Acq: 4 Nov 2020 16:24

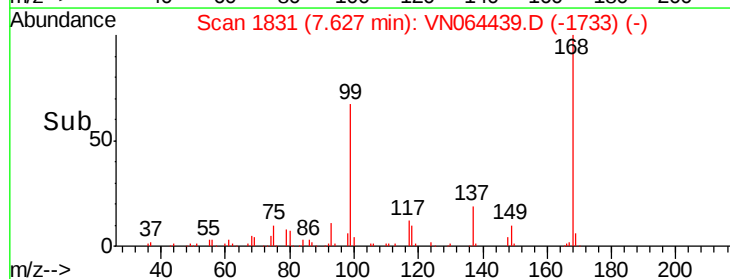
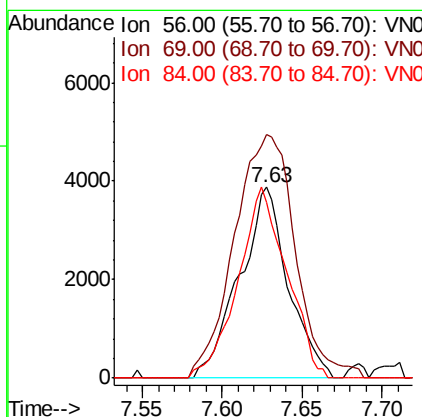
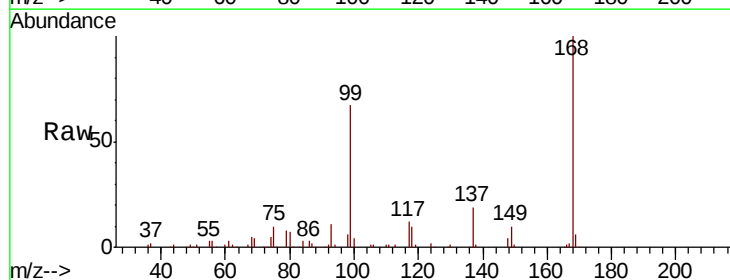
Instrument :
MSVOA_N
ClientSampleId :

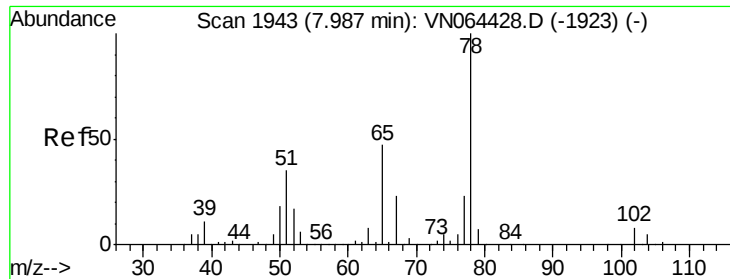
Tot Ion: 76 Resp: 1874
Ion Ratio Lower Upper
76 100
78 19.7 6.8 10.2#



#31
Cyclohexane
Concen: 1.423 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.02 min
Lab File: VN064439.D
Acq: 4 Nov 2020 16:24

Tgt Ion: 56 Resp: 8120
Ion Ratio Lower Upper
56 100
69 127.5 25.6 38.4#
84 91.9 63.0 94.6

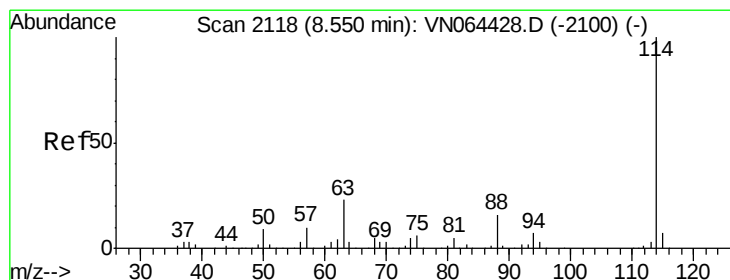
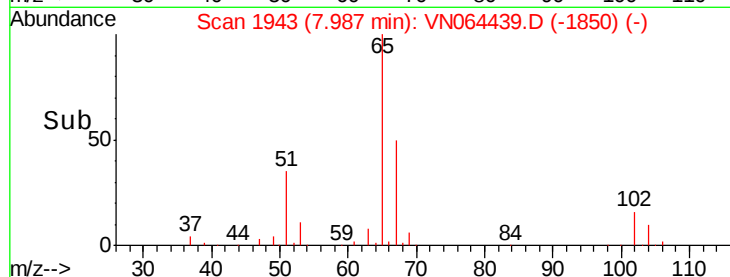
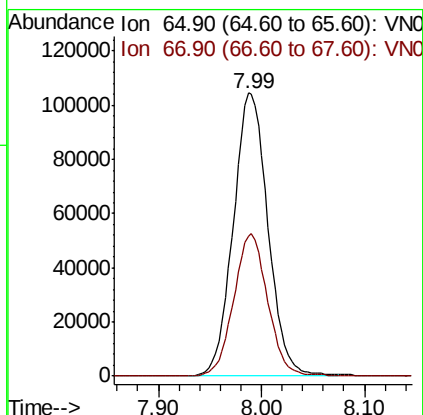
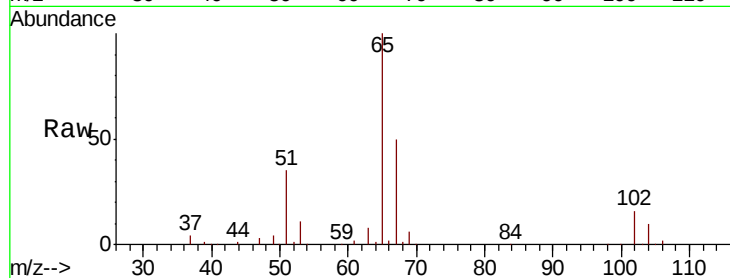




#33
 1,2-Dichloroethane-d4
 Concen: 52.209 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN064439.D
 Acq: 4 Nov 2020 16:24

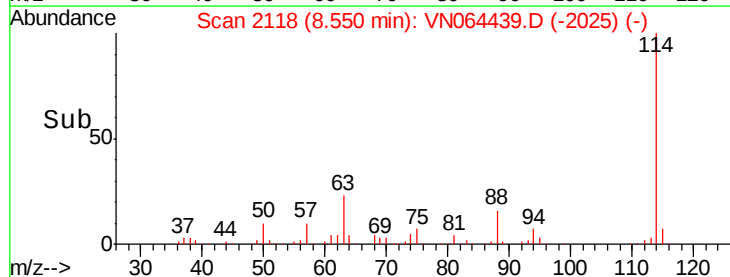
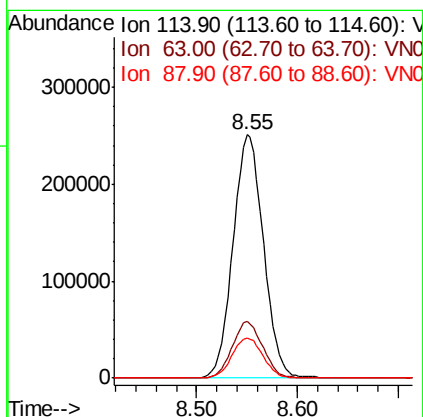
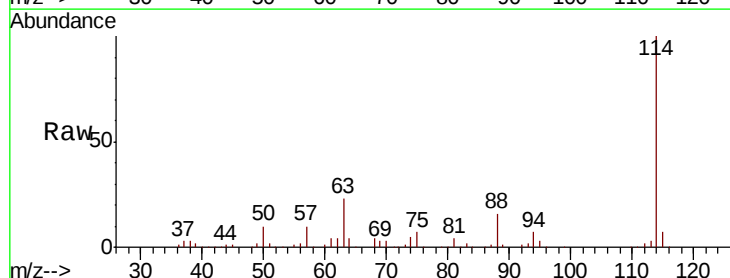
Instrument :
 MSVOA_N
 ClientSampled :

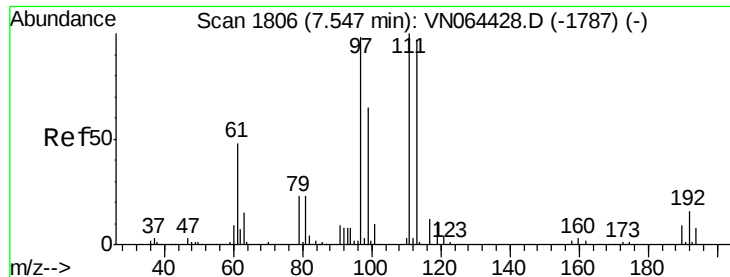
Tot Ion: 65 Resp: 245142
 Ion Ratio Lower Upper
 65 100
 67 49.5 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064439.D
 Acq: 4 Nov 2020 16:24

Tgt Ion: 114 Resp: 527166
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 45.6
 88 16.4 0.0 32.8

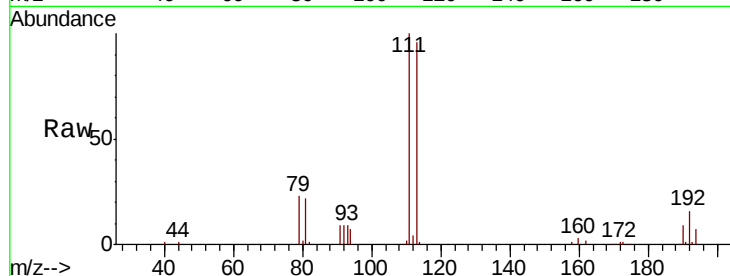




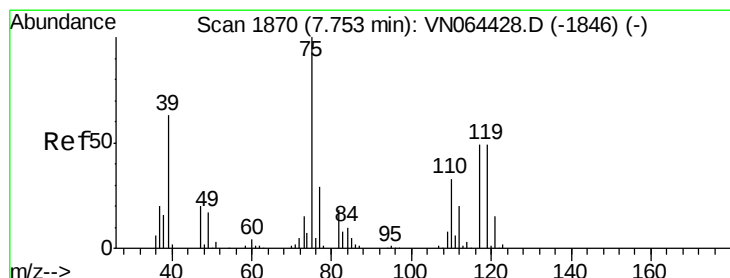
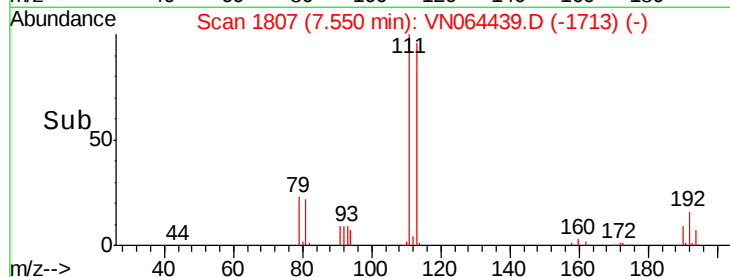
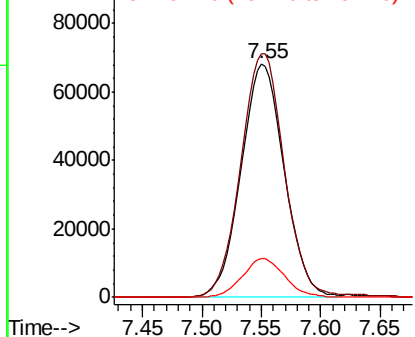
#35
 Dibromofluoromethane
 Concen: 47.830 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064439.D
 Acq: 4 Nov 2020 16:24

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 171676
 Ion Ratio Lower Upper
 113 100
 111 105.2 81.1 121.7
 192 16.3 12.8 19.2

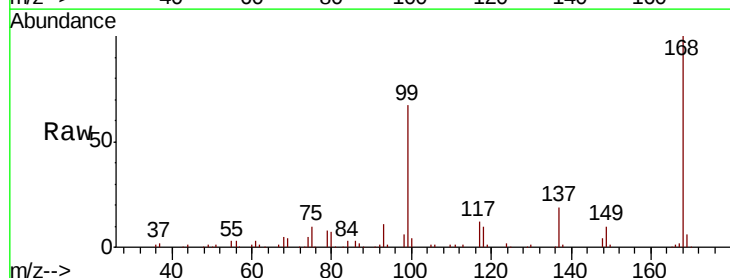


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

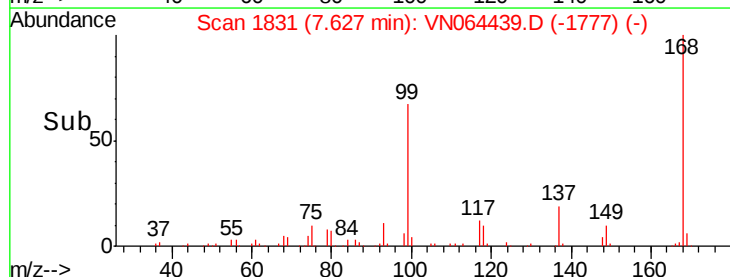
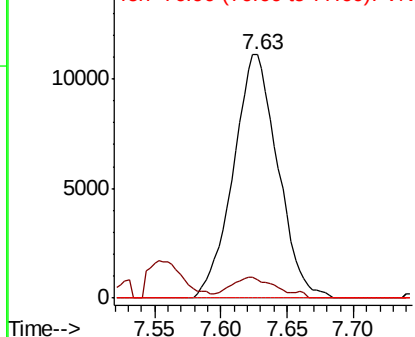


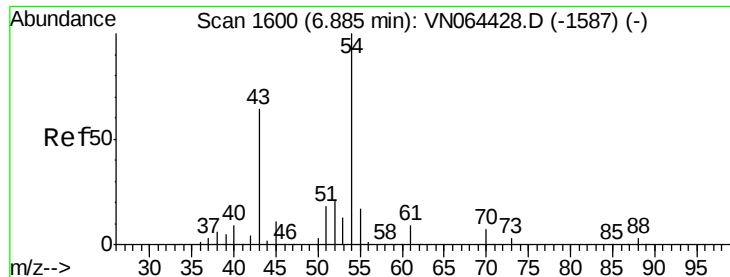
#36
 1,1-Dichloropropene
 Concen: 4.650 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064439.D
 Acq: 4 Nov 2020 16:24

Tgt Ion: 75 Resp: 25895
 Ion Ratio Lower Upper
 75 100
 110 5.8 16.0 48.0#
 77 0.0 24.0 36.0#



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

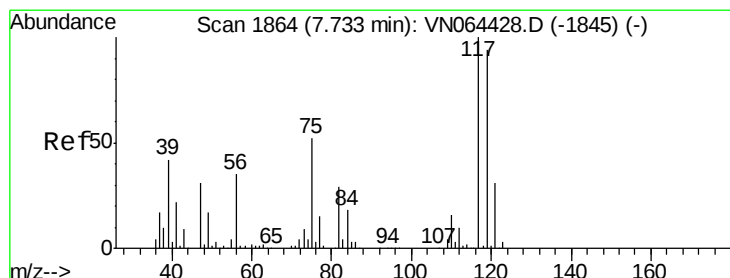
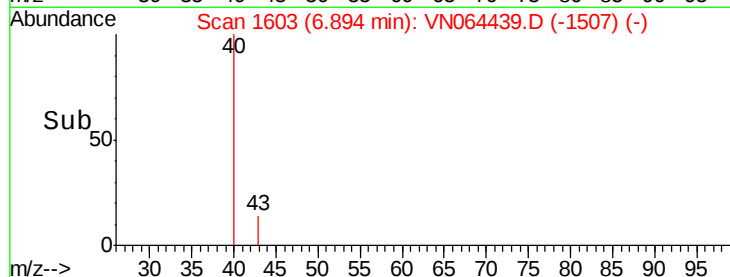
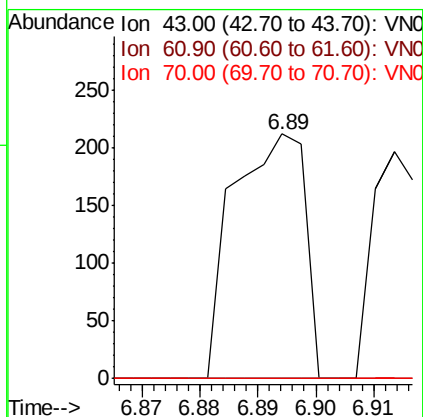
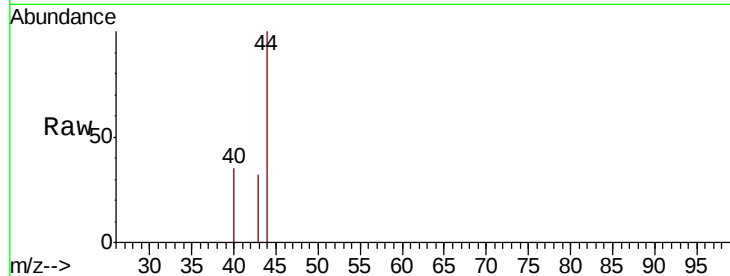




#37
Ethyl Acetate
Concen: 0.794 ug/l
RT: 6.89 min Scan# 1603
Delta R.T. 0.01 min
Lab File: VN064439.D
Acq: 4 Nov 2020 16:24

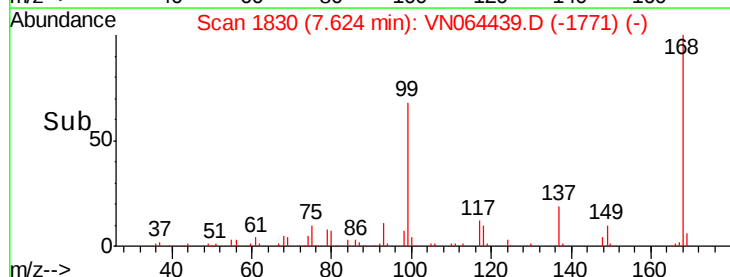
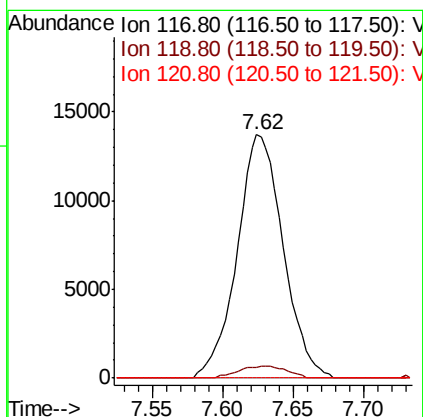
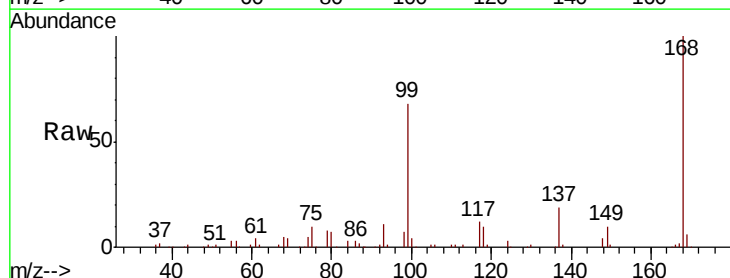
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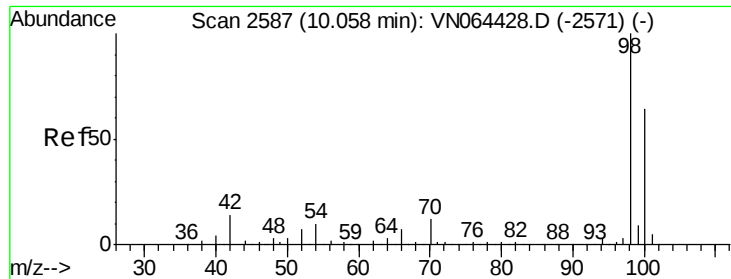
Tot Ion: 43 Resp: 182
Ion Ratio Lower Upper
43 100
61 0.0 10.0 15.0#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 5.250 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.11 min
Lab File: VN064439.D
Acq: 4 Nov 2020 16:24

Tgt Ion: 117 Resp: 31251
Ion Ratio Lower Upper
117 100
119 4.6 75.5 113.3#
121 0.0 24.4 36.6#





#50

Toluene-d8

Concen: 49.111 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064439.D

Acq: 4 Nov 2020 16:24

Instrument :

MSVOA_N

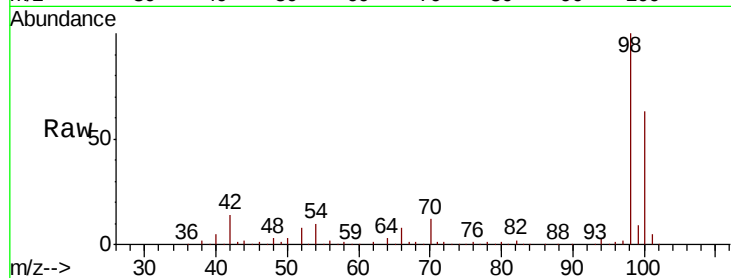
ClientSampled :

Tot Ion: 98 Resp: 681296

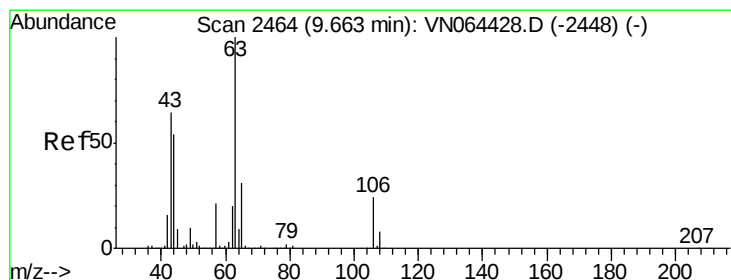
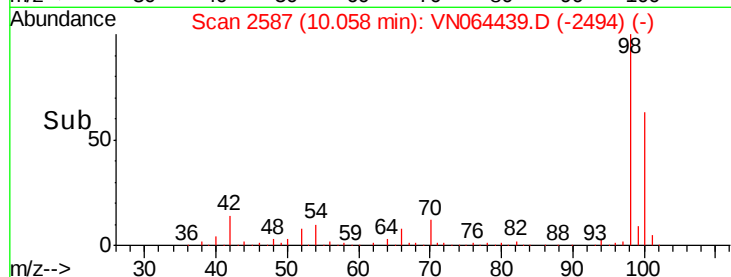
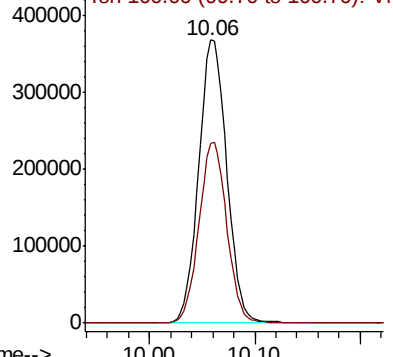
Ion Ratio Lower Upper

98 100

100 63.2 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN064428.D (-2571) (-)



#58

2-Chloroethyl Vinyl ether

Concen: 21.567 ug/l

RT: 9.67 min Scan# 2467

Delta R.T. 0.01 min

Lab File: VN064439.D

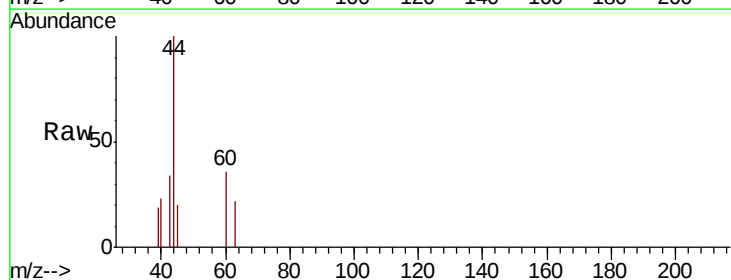
Acq: 4 Nov 2020 16:24

Tgt Ion: 63 Resp: 95

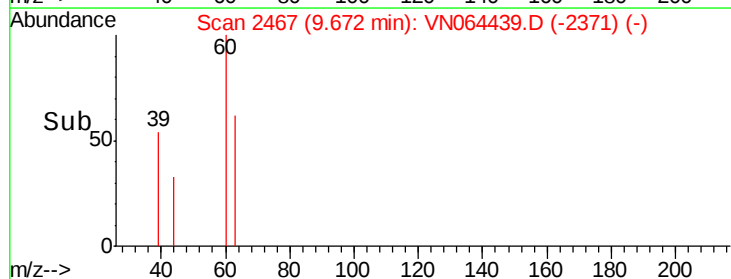
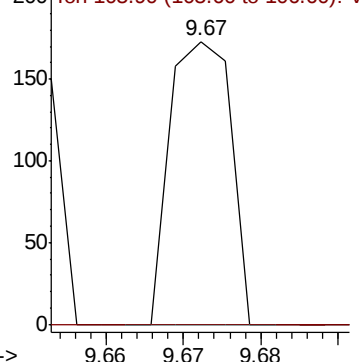
Ion Ratio Lower Upper

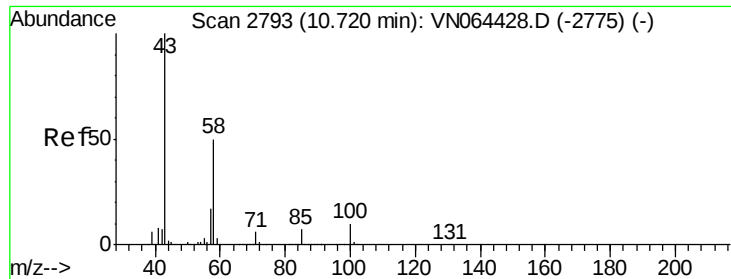
63 100

106 0.0 19.5 29.3#



Abundance Ion 62.90 (62.60 to 63.60): VN064428.D (-2448) (-)





#59

2-Hexanone

Concen: 4.200 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064439.D

Acq: 4 Nov 2020 16:24

Instrument :

MSVOA_N

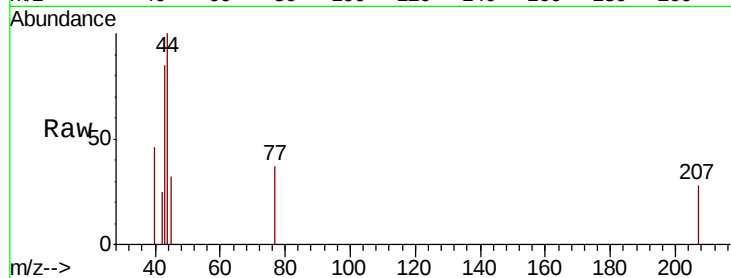
ClientSampleId :

Tot Ion: 43 Resp: 749

Ion Ratio Lower Upper

43 100

58 23.2 24.7 74.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.74

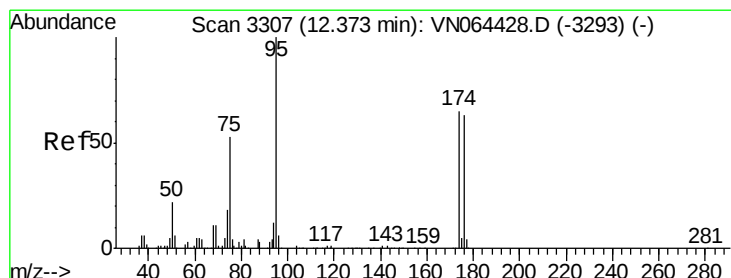
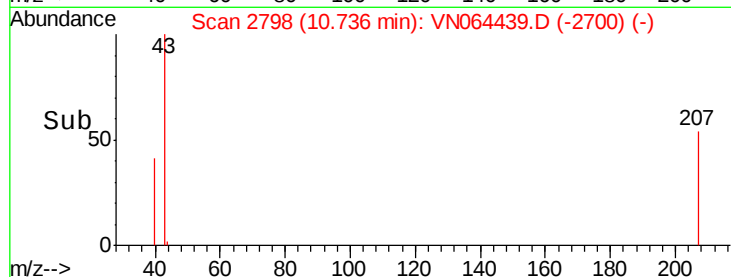
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 50.602 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064439.D

Acq: 4 Nov 2020 16:24

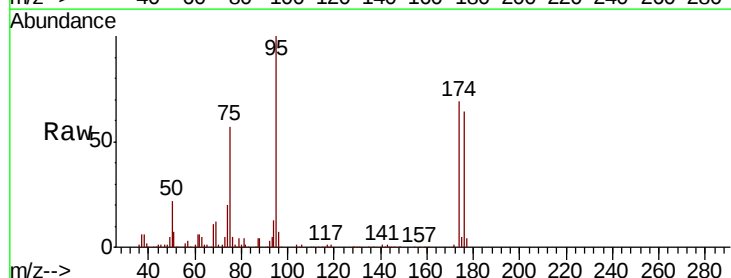
Tgt Ion: 95 Resp: 265481

Ion Ratio Lower Upper

95 100

174 68.7 0.0 132.6

176 64.6 0.0 129.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

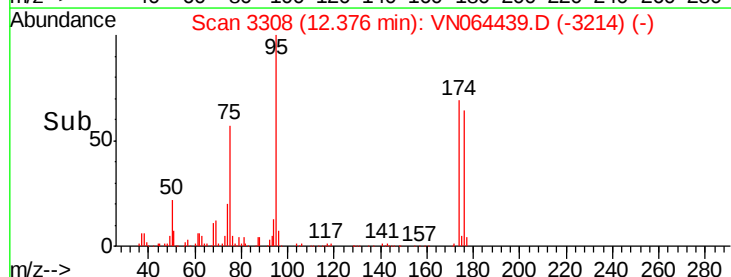
150000

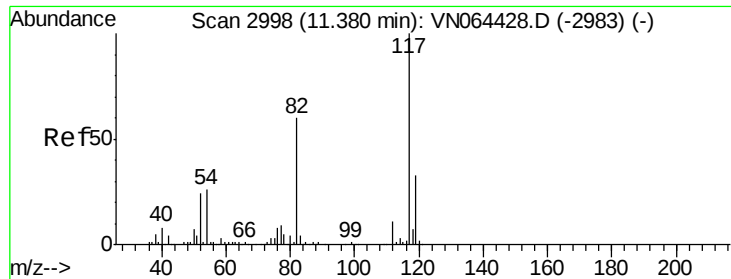
100000

50000

0

Time-->

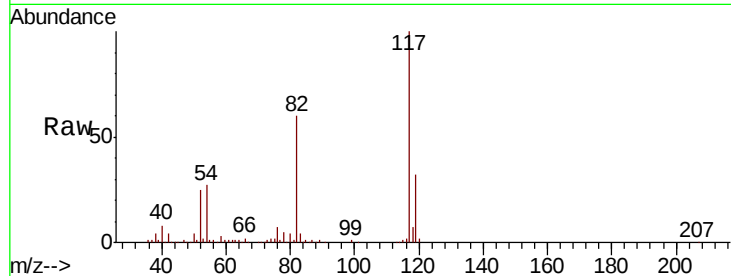




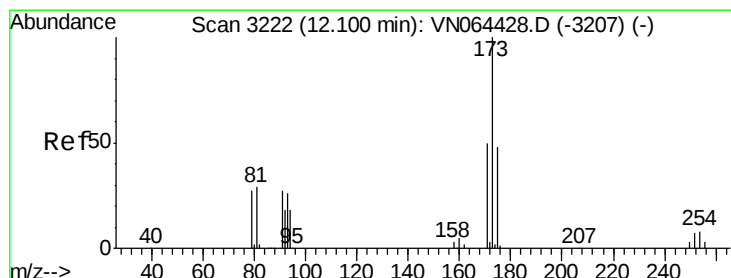
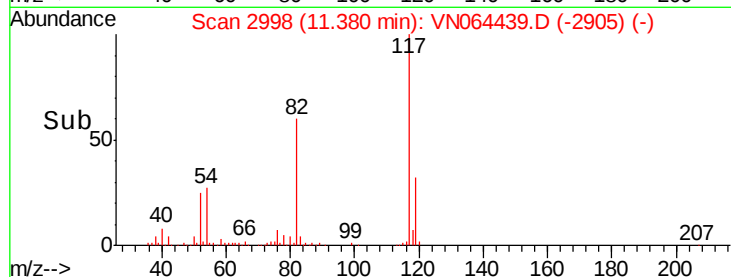
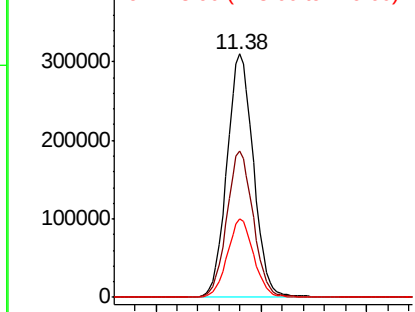
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064439.D
Acq: 4 Nov 2020 16:24

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 538559
Ion Ratio Lower Upper
117 100
82 60.3 48.1 72.1
119 32.3 26.2 39.4

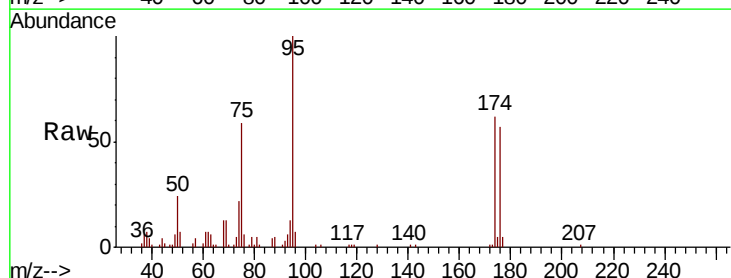


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

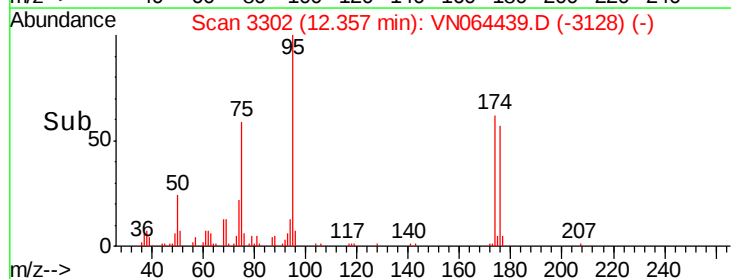
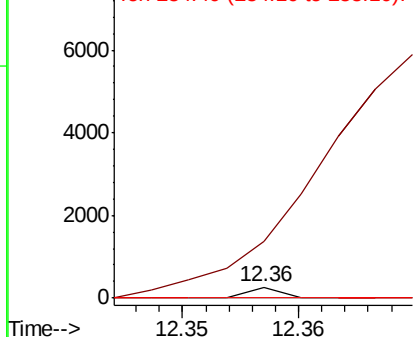


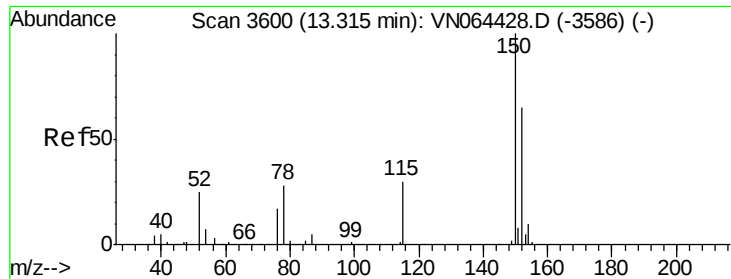
#71
Bromoform
Concen: 1.290 ug/l
RT: 12.36 min Scan# 3302
Delta R.T. 0.26 min
Lab File: VN064439.D
Acq: 4 Nov 2020 16:24

Tgt Ion:173 Resp: 50
Ion Ratio Lower Upper
173 100
175 0.0 23.7 71.1#
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# 3601

Delta R.T. 0.00 min

Lab File: VN064439.D

Acq: 4 Nov 2020 16:24

Instrument :

MSVOA_N

ClientSampleId :

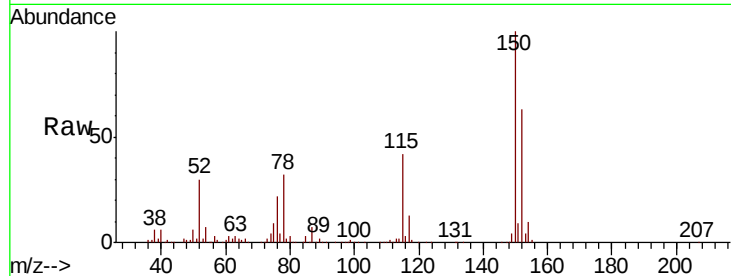
Tot Ion:152 Resp: 202835

Ion Ratio Lower Upper

152 100

115 65.2 32.0 96.0

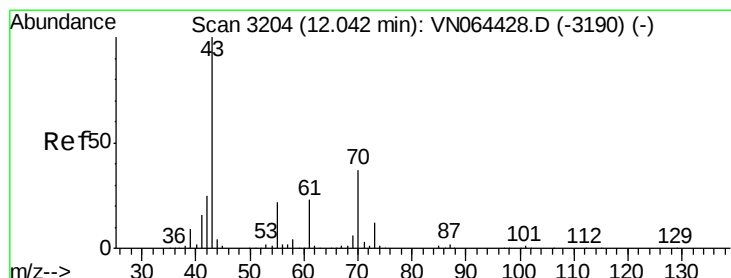
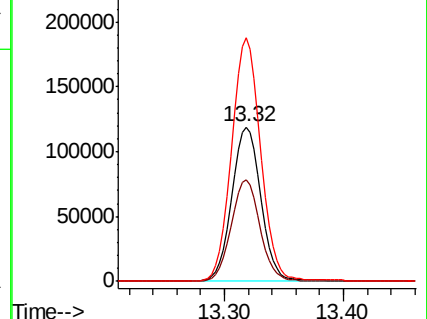
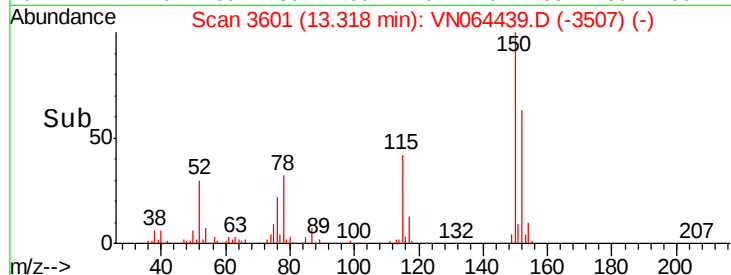
150 156.8 0.0 353.8



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



#74

N-ethyl acetate

Concen: 1.228 ug/l

RT: 12.02 min Scan# 3196

Delta R.T. -0.03 min

Lab File: VN064439.D

Acq: 4 Nov 2020 16:24

Tgt Ion: 43 Resp: 107

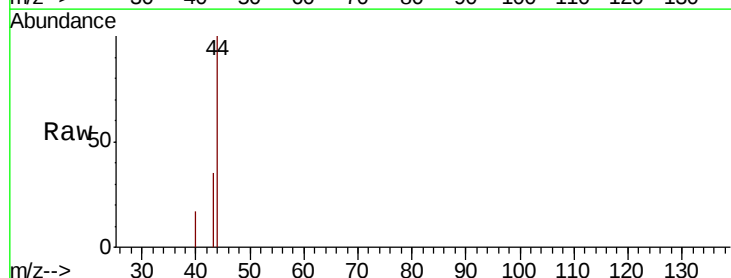
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 0.0 18.4 27.6#

61 0.0 17.8 26.6#

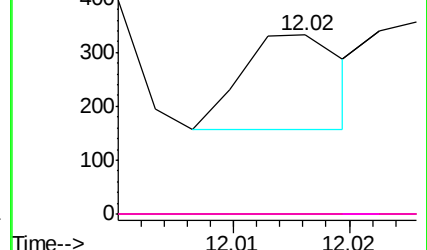
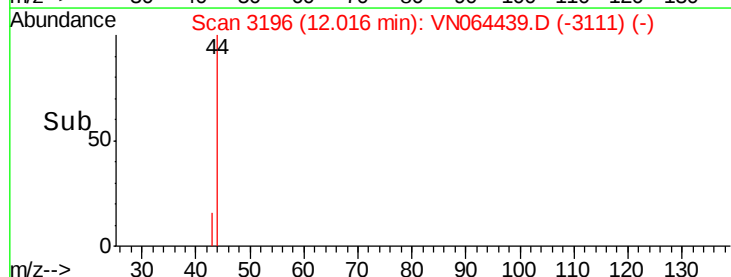


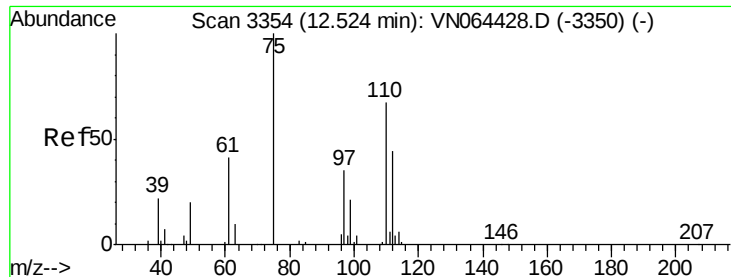
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 29.758 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064439.D

Acq: 4 Nov 2020 16:24

Instrument :

MSVOA_N

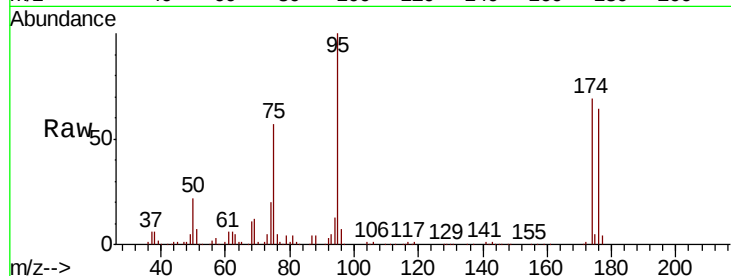
ClientSampleId :

Tot Ion: 75 Resp: 146248

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.38

80000

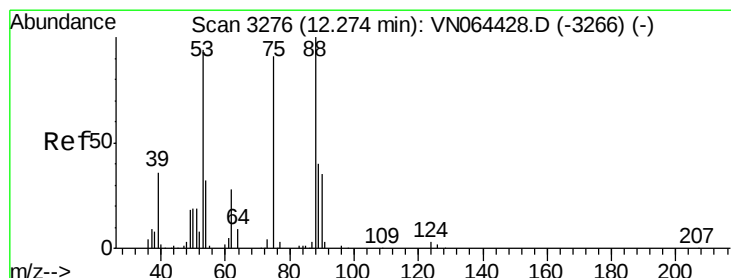
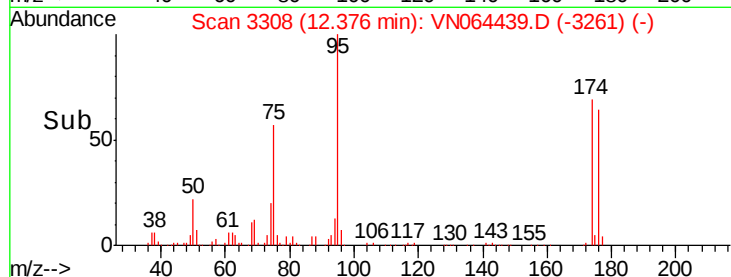
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 83.089 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064439.D

Acq: 4 Nov 2020 16:24

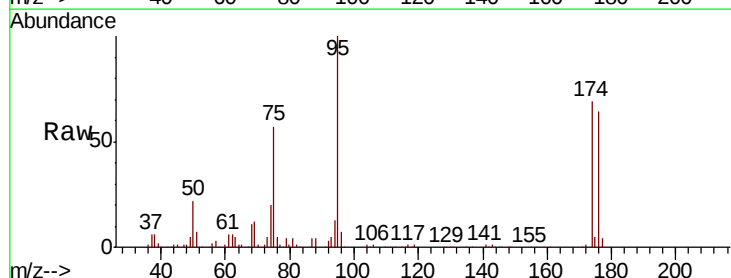
Tgt Ion: 75 Resp: 146248

Ion Ratio Lower Upper

75 100

53 0.1 84.0 126.0#

89 0.1 36.3 54.5#



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

120000

100000

80000

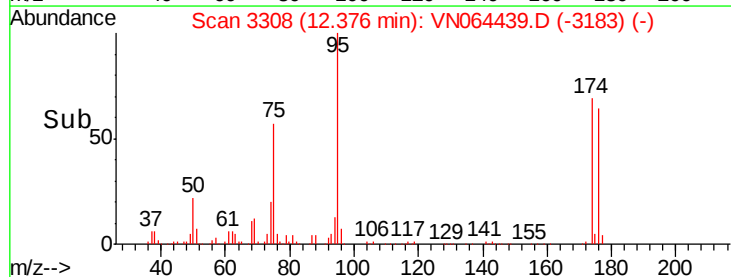
60000

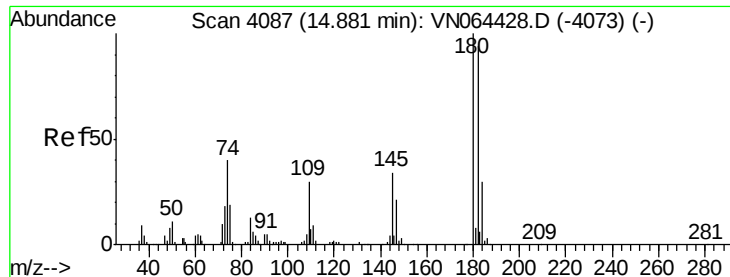
40000

20000

0

Time-->

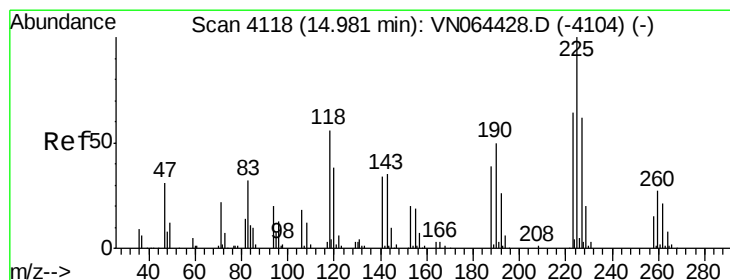
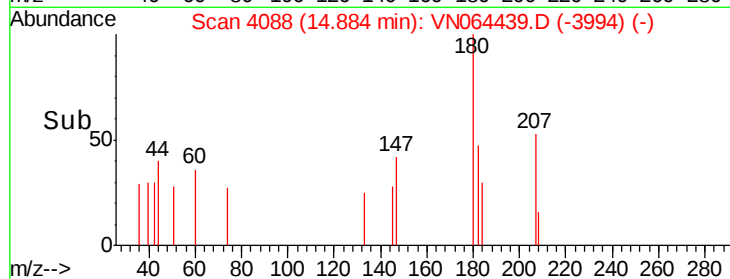
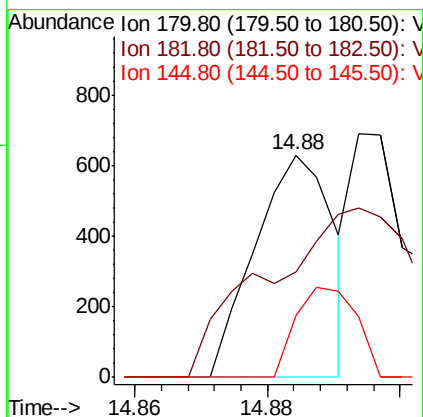
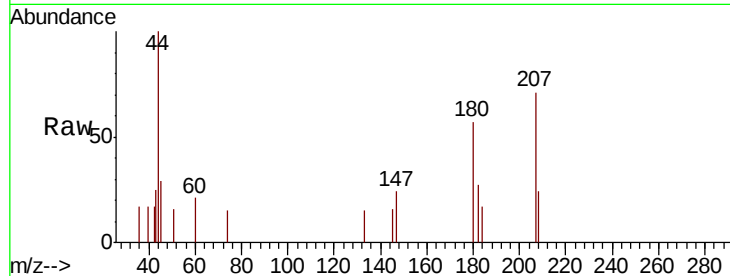




#93
 1,2,4-Trichlorobenzene
 Concen: 2.814 ug/l
 RT: 14.88 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN064439.D
 Acq: 4 Nov 2020 16:24

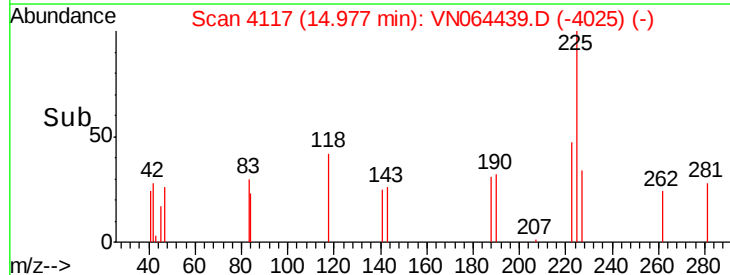
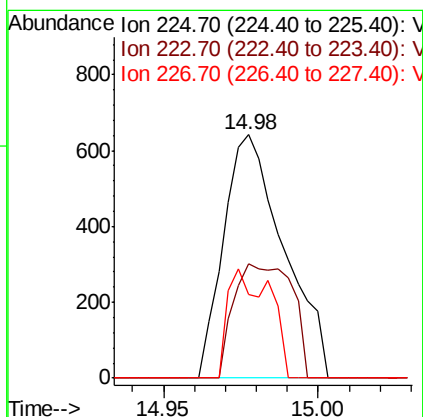
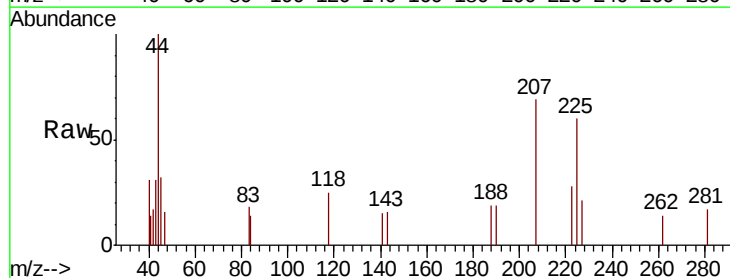
Instrument :
 MSVOA_N
 ClientSampled :

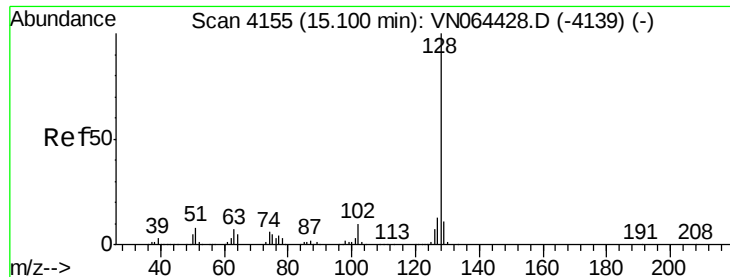
Tot Ion:180 Resp: 515
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.3 142.0#
 145 31.7 16.7 50.1



#94
 Hexachlorobutadiene
 Concen: 0.654 ug/l
 RT: 14.98 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN064439.D
 Acq: 4 Nov 2020 16:24

Tgt Ion:225 Resp: 872
 Ion Ratio Lower Upper
 225 100
 223 45.1 31.8 95.4
 227 31.0 31.8 95.4#





#95

Naphthalene

Concen: 3.855 ug/l

RT: 15.11 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN064439.D

Acq: 4 Nov 2020 16:24

Instrument :

MSVOA_N

ClientSampleId :

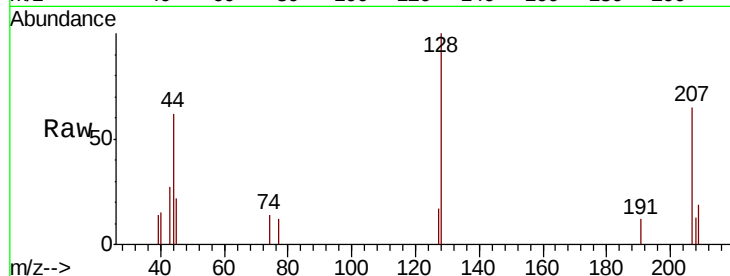
Tot Ion:128 Resp: 2779

Ion Ratio Lower Upper

128 100

127 8.0 10.5 15.7#

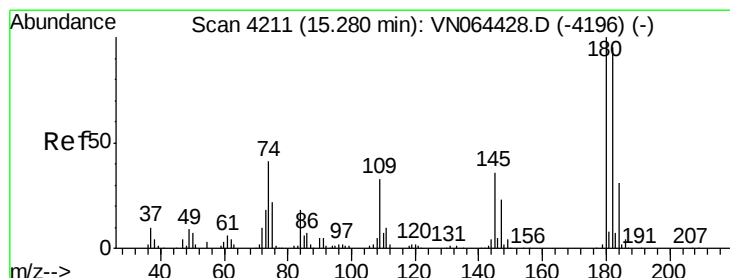
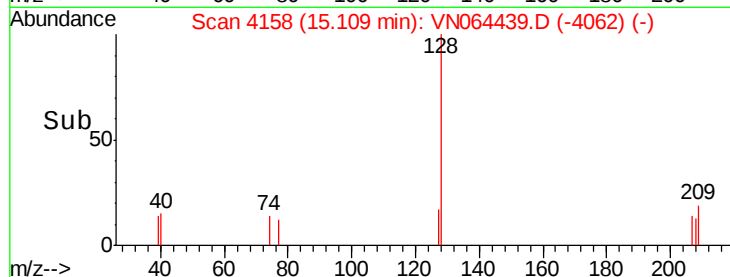
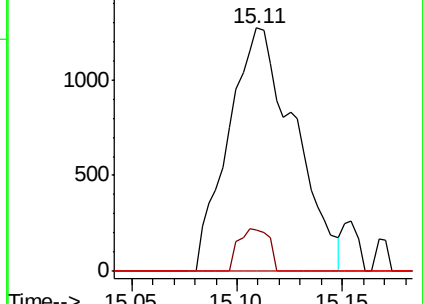
129 0.0 8.8 13.2#



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: 3.032 ug/l

RT: 15.28 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN064439.D

Acq: 4 Nov 2020 16:24

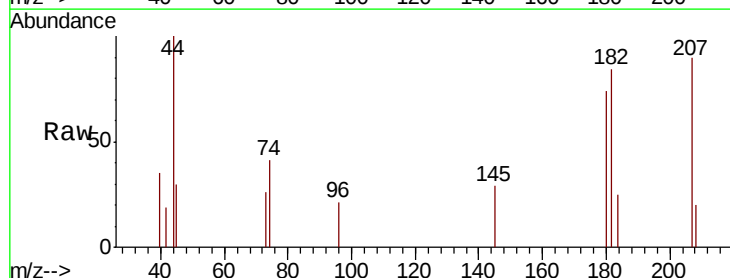
Tgt Ion:180 Resp: 856

Ion Ratio Lower Upper

180 100

182 103.6 47.7 143.1

145 31.5 18.3 54.8



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

