

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111720\
 Data File : VN064696.D
 Acq On : 17 Nov 2020 21:31
 Operator : JC/MD
 Sample : L4783-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-9

Quant Time: Nov 18 01:52:24 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	221938	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	480717	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	531126	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	227808	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	224701	58.13	ug/l	0.00
Spiked Amount			Recovery	=	116.26%	
35) Dibromofluoromethane	7.55	113	163445	49.94	ug/l	0.00
Spiked Amount			Recovery	=	99.88%	
50) Toluene-d8	10.06	98	605807	47.89	ug/l	0.00
Spiked Amount			Recovery	=	95.78%	
62) 4-Bromofluorobenzene	12.37	95	256794	53.68	ug/l	0.00
Spiked Amount			Recovery	=	107.36%	

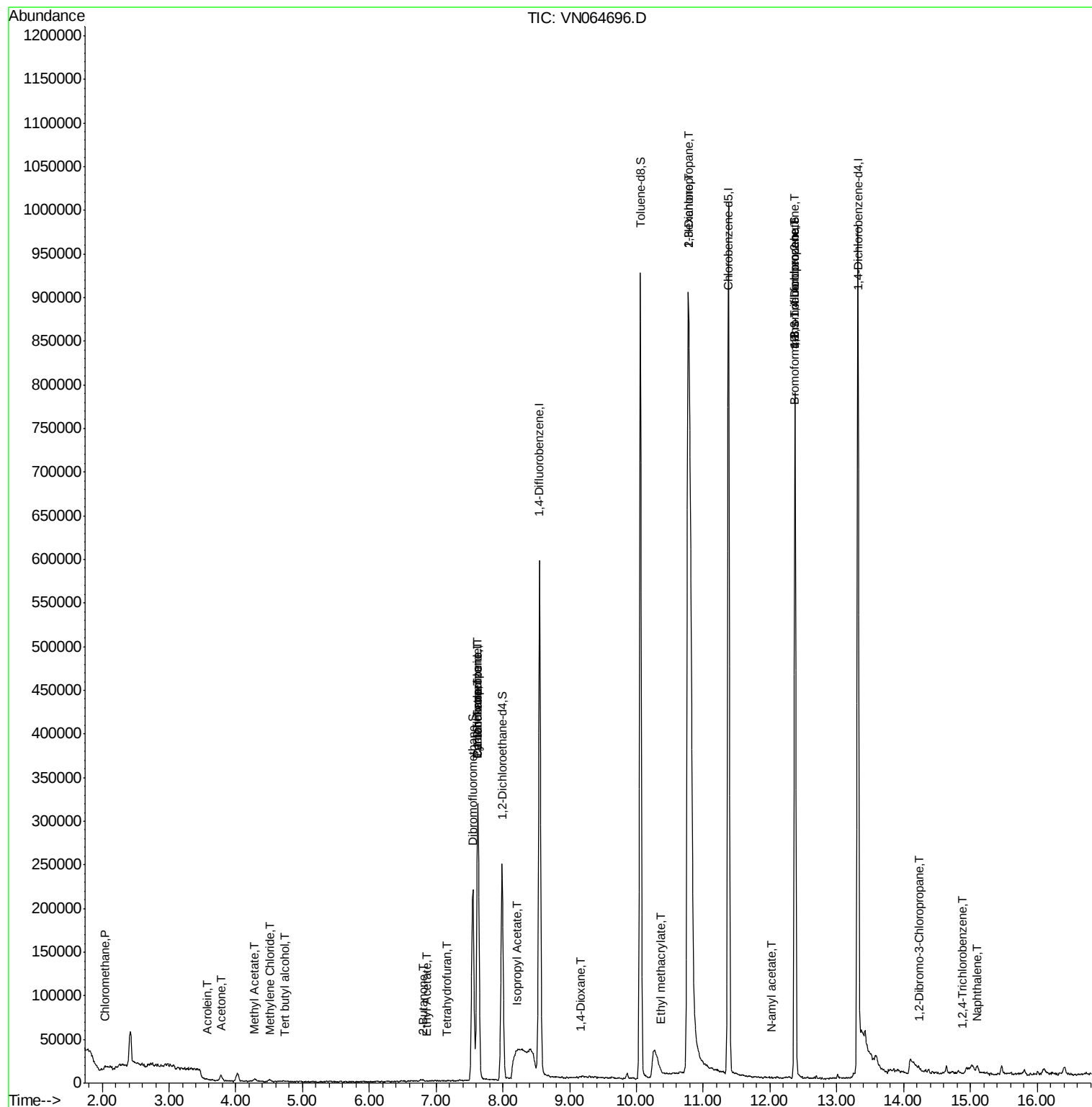
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2481	0.707	ug/l #	83
11) Tert butyl alcohol	4.74	59	99	0.232	ug/l #	71
13) Acrolein	3.57	56	153	0.579	ug/l #	1
16) Acetone	3.78	43	9473	6.433	ug/l	97
18) Methyl Acetate	4.28	43	4269	1.475	ug/l #	88
20) Methylene Chloride	4.51	84	800	0.274	ug/l #	84
25) 2-Butanone	6.80	43	453	0.241	ug/l #	52
29) Tetrahydrofuran	7.15	42	786	0.683	ug/l #	37
31) Cyclohexane	7.62	56	7123	1.516	ug/l #	38
36) 1,1-Dichloropropene	7.63	75	21793	4.291	ug/l #	49
37) Ethyl Acetate	6.87	43	131	0.787	ug/l #	71
38) Carbon Tetrachloride	7.63	117	27854	5.132	ug/l #	18
43) Isopropyl Acetate	8.20	43	36972	4.492	ug/l #	66
49) 1,4-Dioxane	9.16	88	134	2.450	ug/l #	1
56) Ethyl methacrylate	10.37	69	38	1.847	ug/l #	1
57) 1,3-Dichloropropane	10.78	76	4346	0.701	ug/l #	42
59) 2-Hexanone	10.78	43	552873	143.017	ug/l #	33
71) Bromoform	12.36	173	341	1.377	ug/l #	1
74) N-amyl acetate	12.02	43	188	1.235	ug/l #	46
76) 1,2,3-Trichloropropane	12.37	75	148029	26.819	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	148029	74.881	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.23	75	338	0.305	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.88	180	67	2.681	ug/l #	12
95) Naphthalene	15.10	128	4772	3.977	ug/l #	86

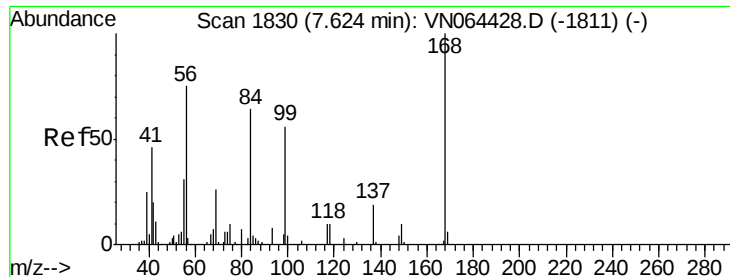
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Nov 04 12:09:03 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064696.D

Acq: 17 Nov 2020 21:31

Instrument :

MSVOA_N

ClientSampled :

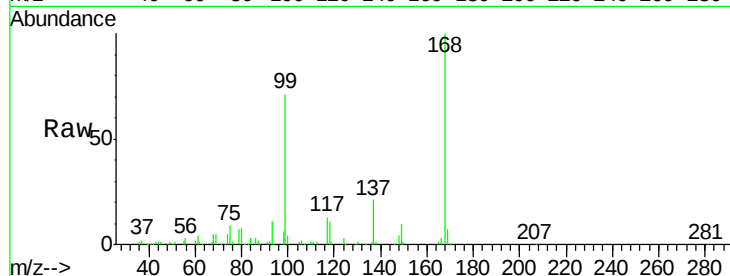
MW-9

Tot Ion:168 Resp: 221938

Ion Ratio Lower Upper

168 100

99 70.7 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

80000

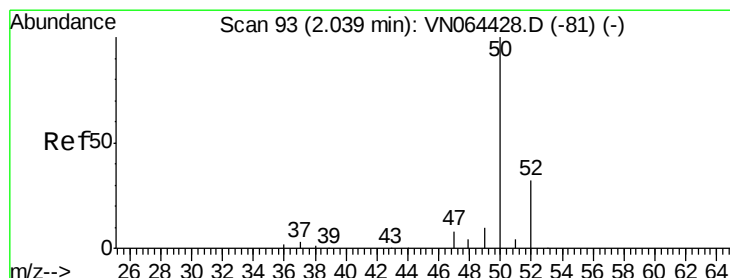
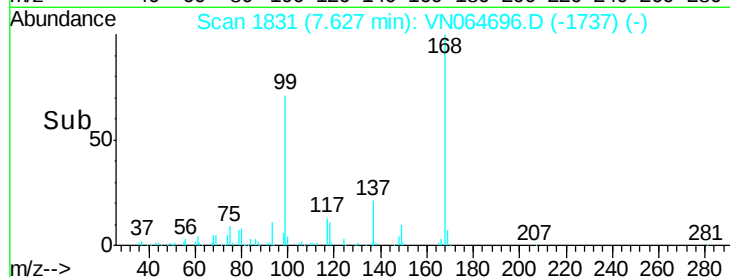
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.707 ug/l

RT: 2.04 min Scan# 93

Delta R.T. -0.00 min

Lab File: VN064696.D

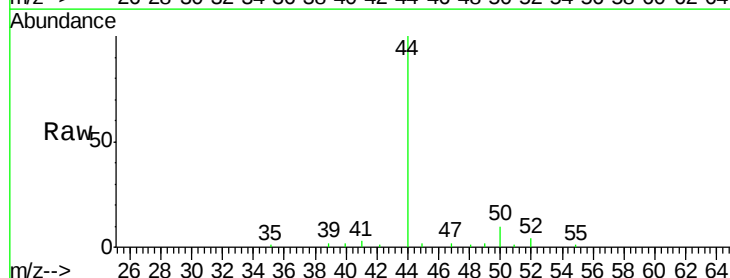
Acq: 17 Nov 2020 21:31

Tgt Ion: 50 Resp: 2481

Ion Ratio Lower Upper

50 100

52 41.2 25.3 37.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

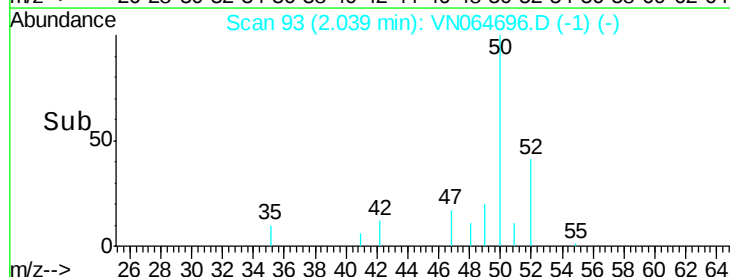
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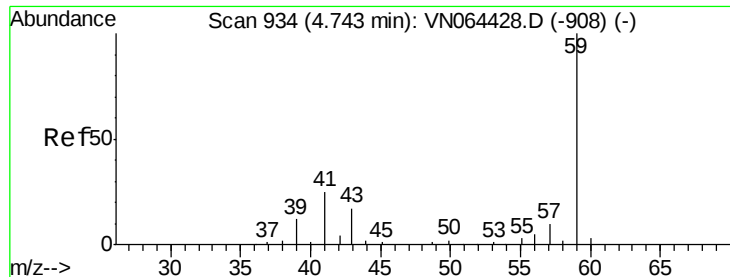
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Time-->

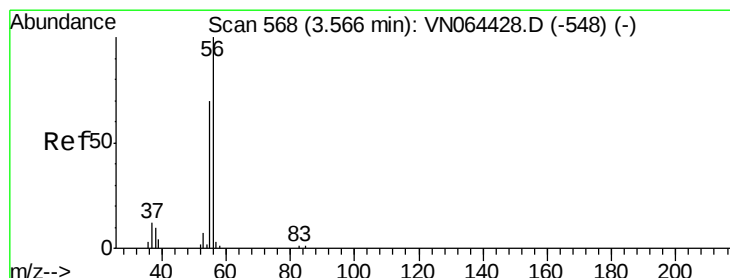
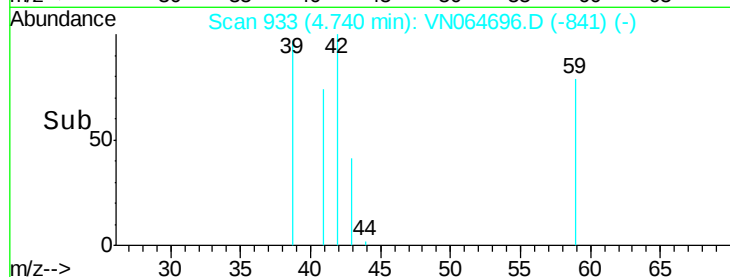
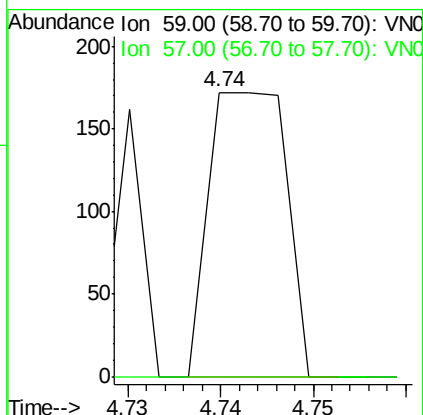
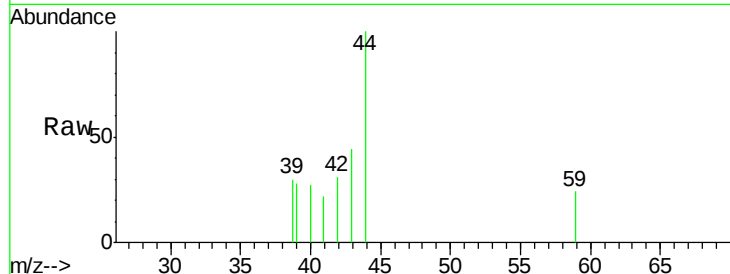




#11
Tert butyl alcohol
Concen: 0.232 ug/l
RT: 4.74 min Scan# 933
Delta R.T. -0.00 min
Lab File: VN064696.D
Acq: 17 Nov 2020 21:31

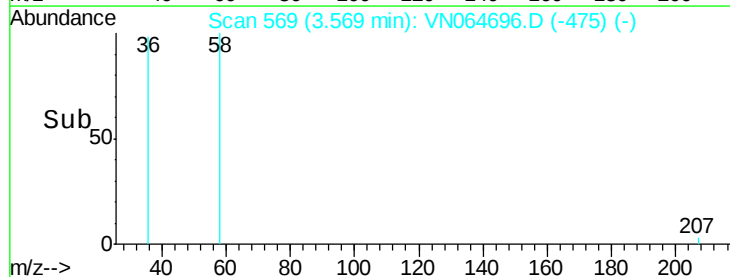
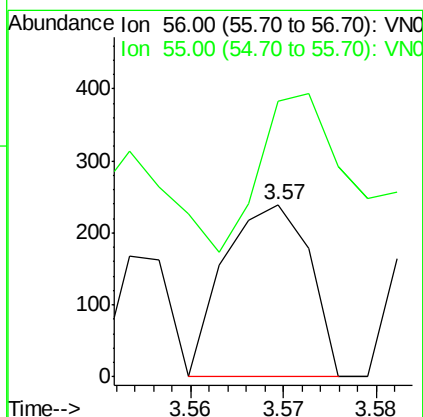
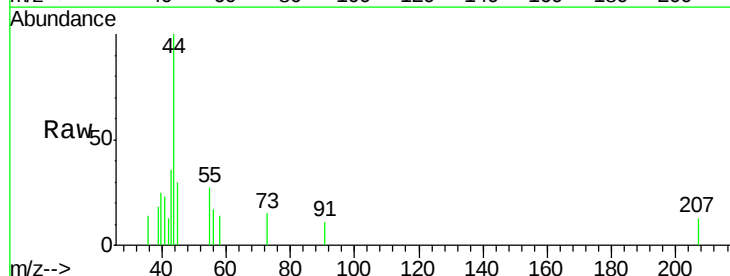
Instrument :
MSVOA_N
ClientSampleId :
MW-9

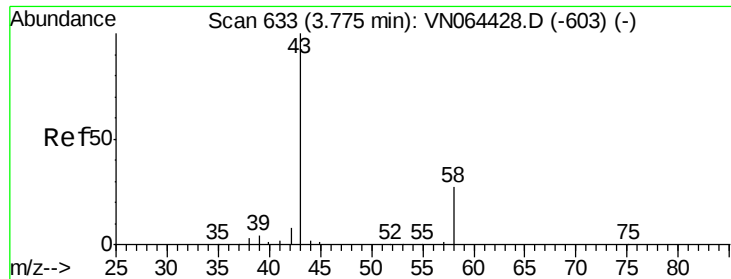
Tot Ion: 59 Resp: 99
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#13
Acrolein
Concen: 0.579 ug/l
RT: 3.57 min Scan# 569
Delta R.T. 0.00 min
Lab File: VN064696.D
Acq: 17 Nov 2020 21:31

Tgt Ion: 56 Resp: 153
Ion Ratio Lower Upper
56 100
55 277.8 55.9 83.9#

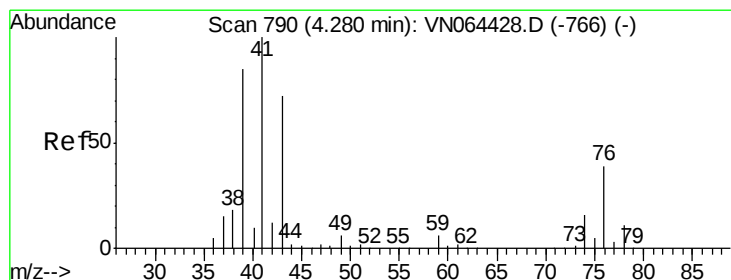
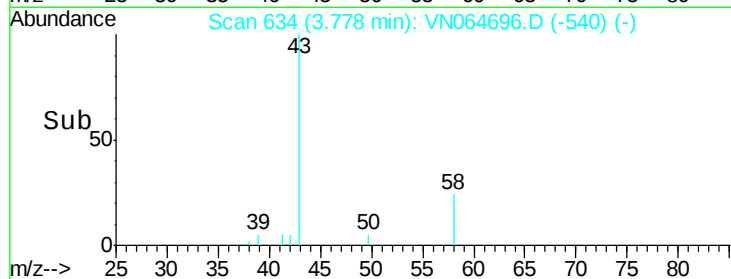
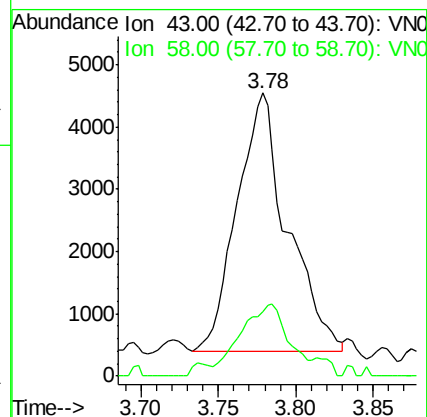
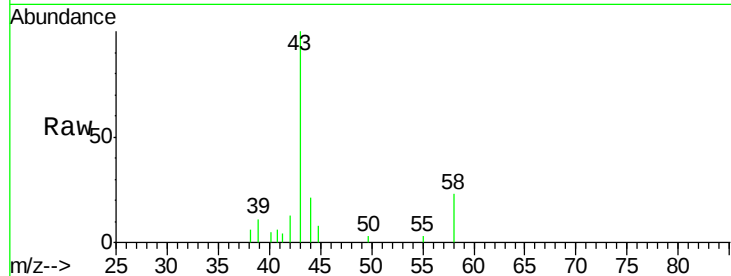




#16
Acetone
Concen: 6.433 ug/l
RT: 3.78 min Scan# 634
Delta R.T. 0.00 min
Lab File: VN064696.D
Acq: 17 Nov 2020 21:31

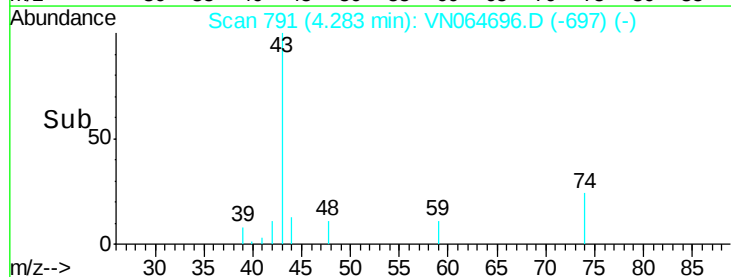
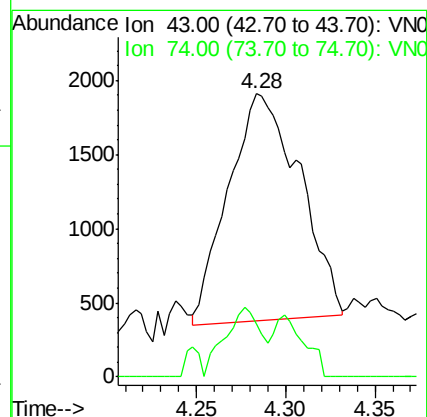
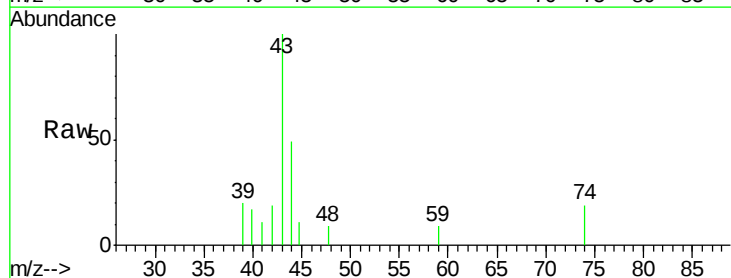
Instrument :
MSVOA_N
ClientSampled :
MW-9

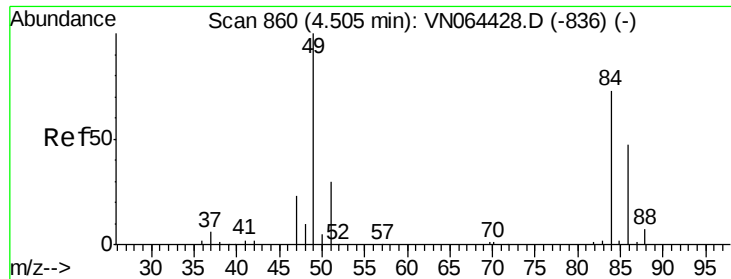
Tot Ion: 43 Resp: 9473
Ion Ratio Lower Upper
43 100
58 25.0 21.4 32.0



#18
Methyl Acetate
Concen: 1.475 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.00 min
Lab File: VN064696.D
Acq: 17 Nov 2020 21:31

Tgt Ion: 43 Resp: 4269
Ion Ratio Lower Upper
43 100
74 15.4 17.0 25.4#

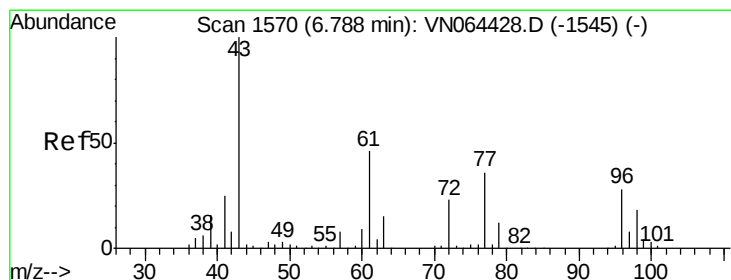
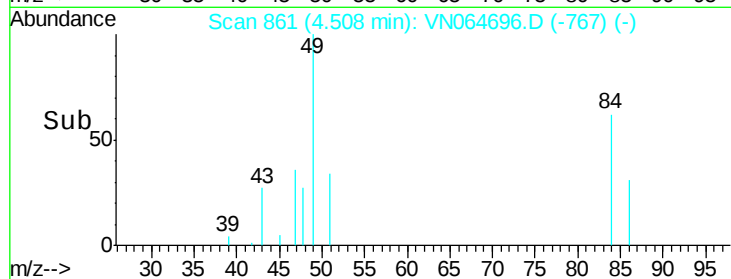
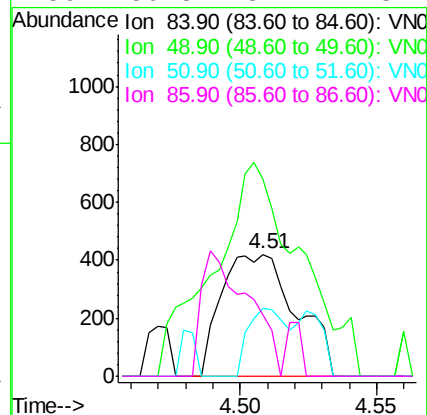
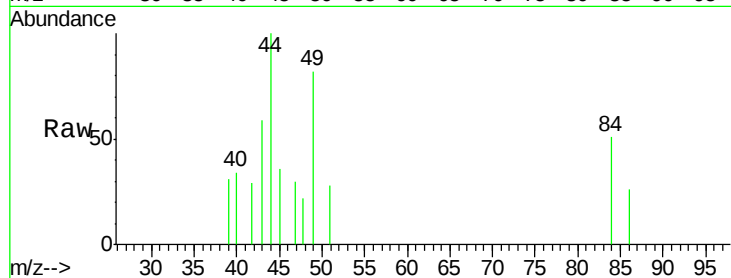




#20
Methvlene Chloride
Concen: 0.274 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN064696.D
Acq: 17 Nov 2020 21:31

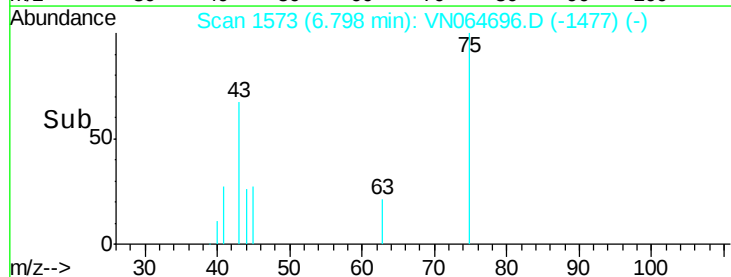
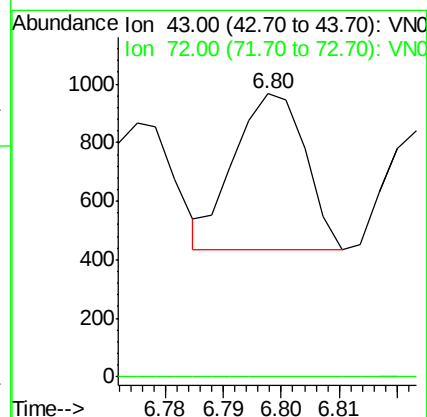
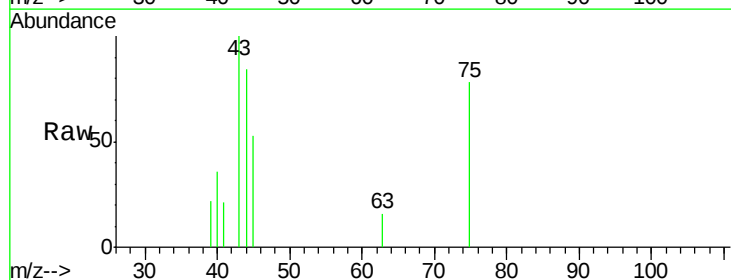
Instrument :
MSVOA_N
ClientSampled :
MW-9

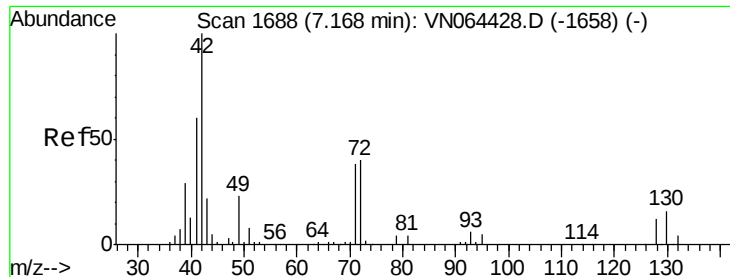
Tot Ion: 84 Resp: 800
Ion Ratio Lower Upper
84 100
49 121.4 110.1 165.1
51 55.6 33.6 50.4#
86 50.8 52.1 78.1#



#25
2-Butanone
Concen: 0.241 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN064696.D
Acq: 17 Nov 2020 21:31

Tgt Ion: 43 Resp: 453
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#





#29

Tetrahydrofuran

Concen: 0.683 ug/l

RT: 7.15 min Scan# 1684

Delta R.T. -0.01 min

Lab File: VN064696.D

Acq: 17 Nov 2020 21:31

Instrument :

MSVOA_N

ClientSampled :

MW-9

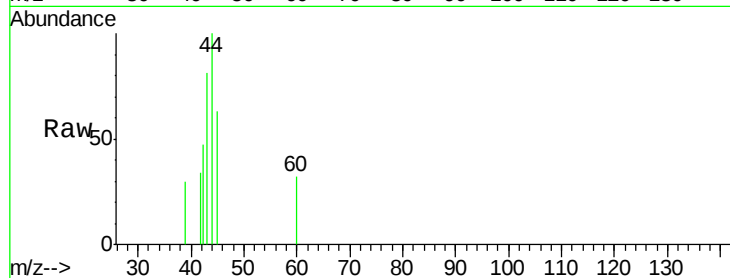
Tot Ion: 42 Resp: 786

Ion Ratio Lower Upper

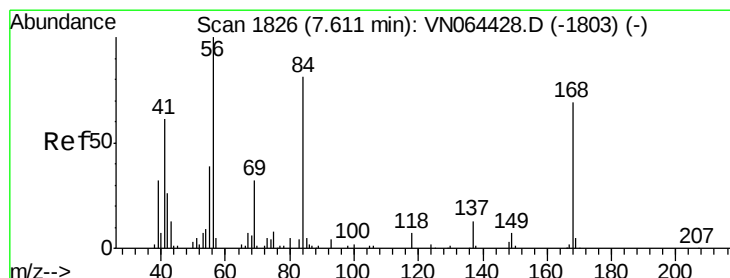
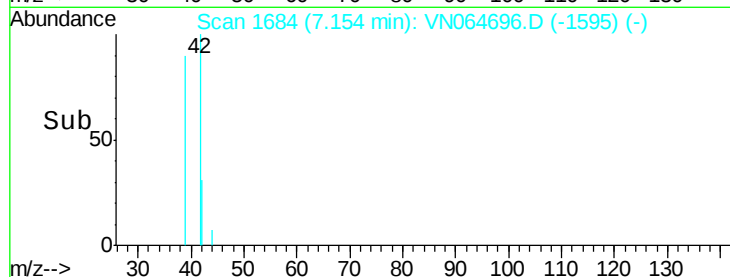
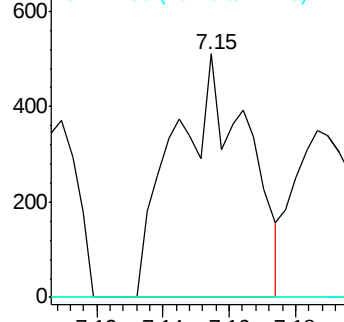
42 100

72 0.0 31.7 47.5#

71 0.0 29.8 44.6#



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: 1.516 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN064696.D

Acq: 17 Nov 2020 21:31

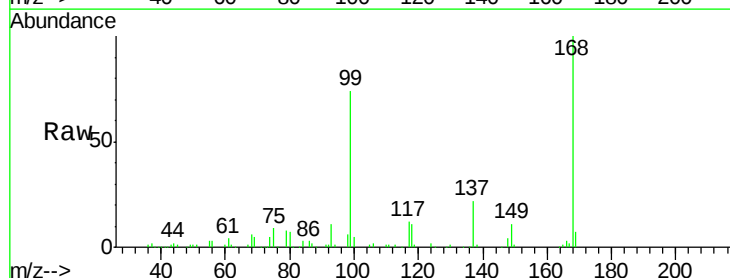
Tgt Ion: 56 Resp: 7123

Ion Ratio Lower Upper

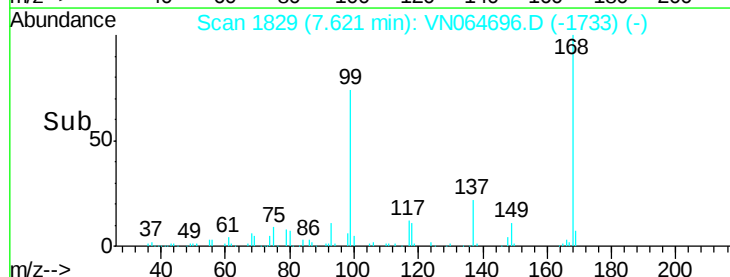
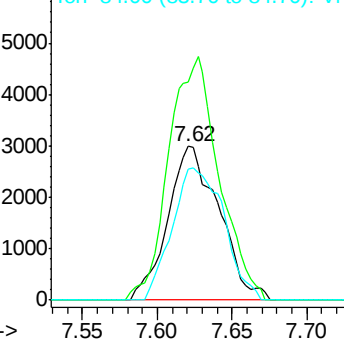
56 100

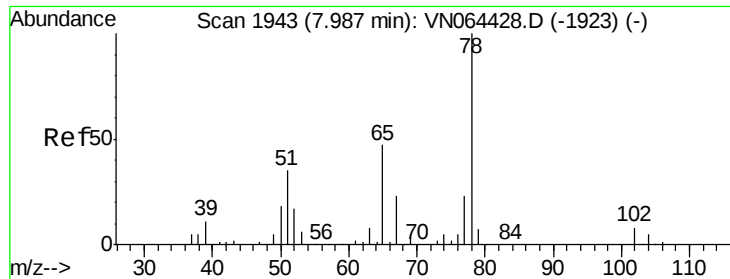
69 141.9 25.6 38.4#

84 85.2 63.0 94.6



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

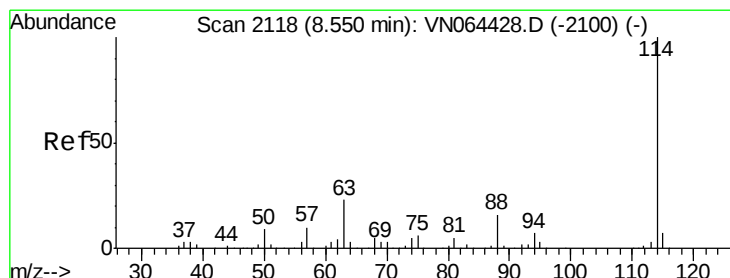
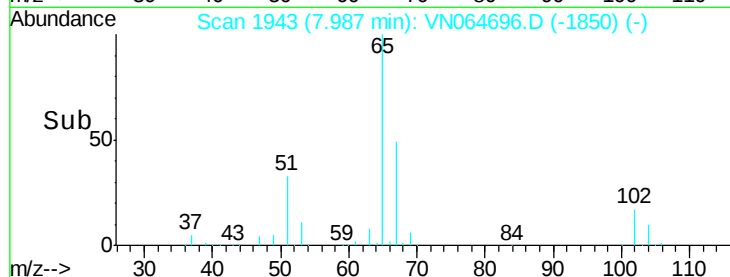
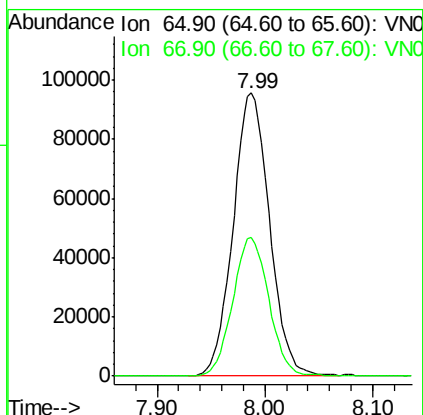
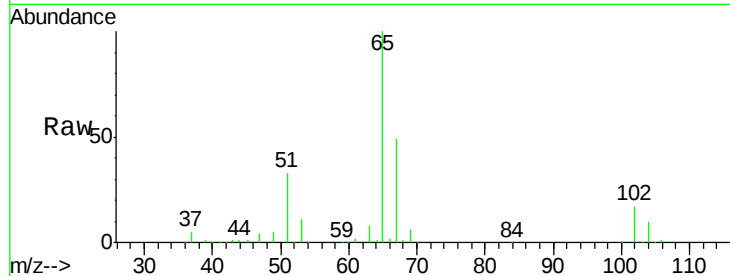




#33
 1,2-Dichloroethane-d4
 Concen: 58.125 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN064696.D
 Acq: 17 Nov 2020 21:31

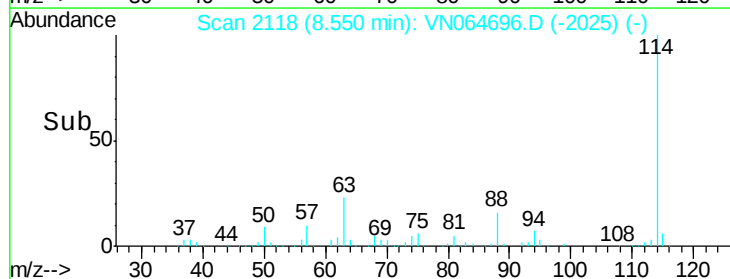
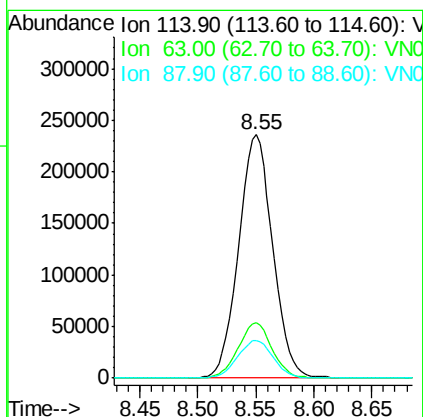
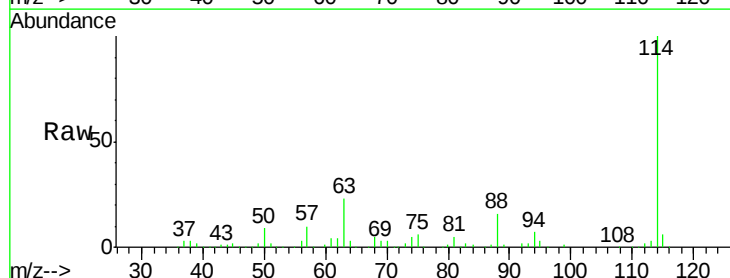
Instrument :
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 MW-9

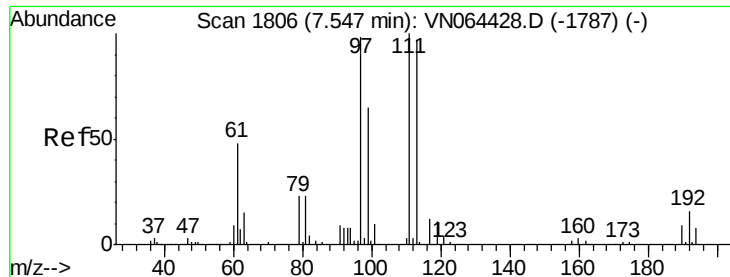
Tot Ion: 65 Resp: 224701
 Ion Ratio Lower Upper
 65 100
 67 48.5 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064696.D
 Acq: 17 Nov 2020 21:31

Tgt Ion: 114 Resp: 480717
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 45.6
 88 15.5 0.0 32.8

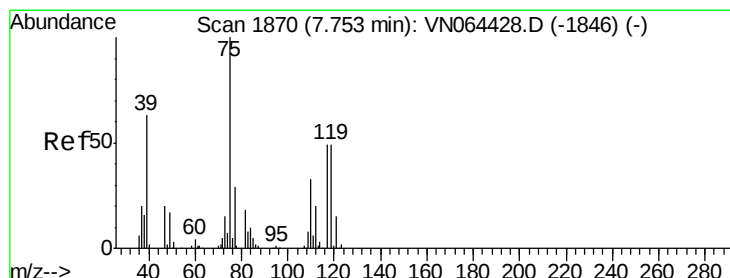
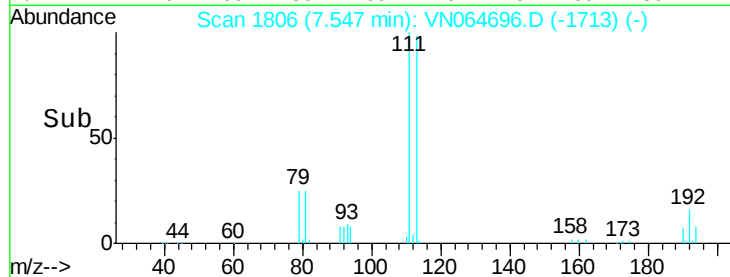
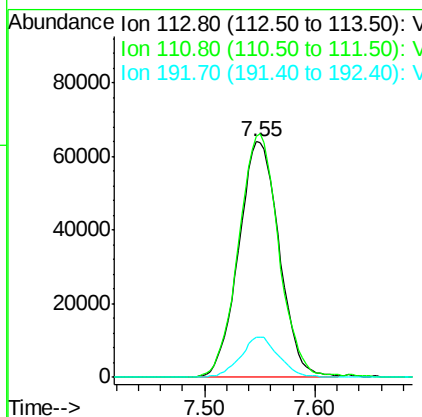
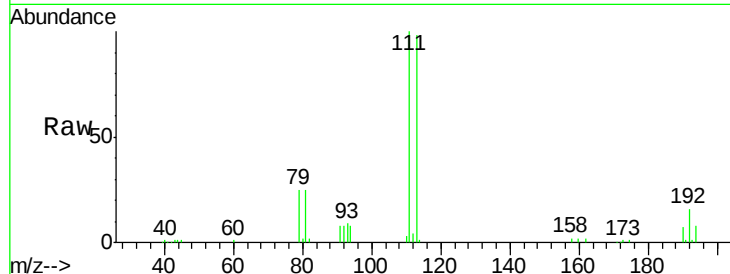




#35
 Dibromofluoromethane
 Concen: 49.937 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN064696.D
 Acq: 17 Nov 2020 21:31

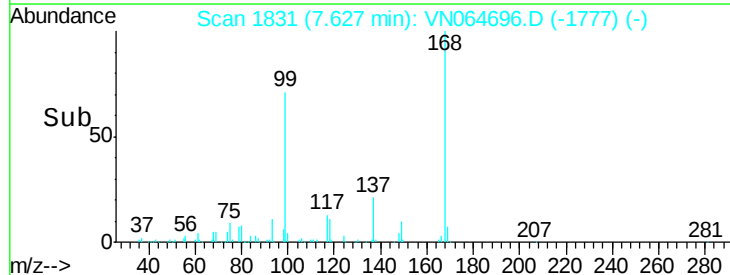
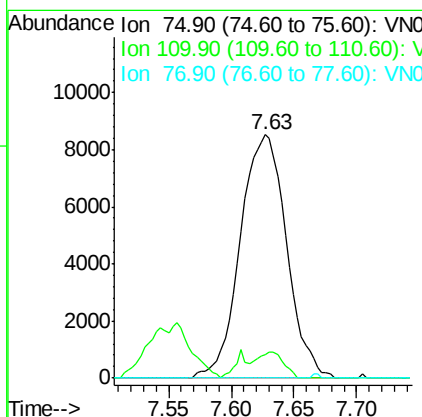
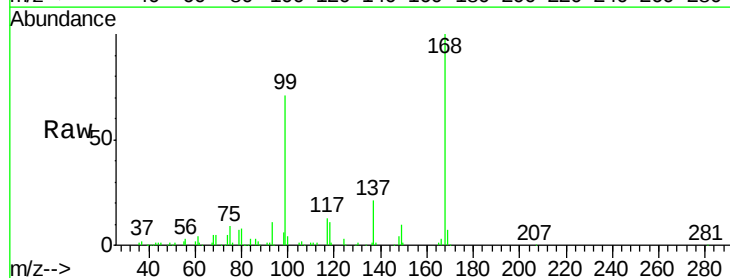
Instrument :
 MSVOA_N
 ClientSampled :
 MW-9

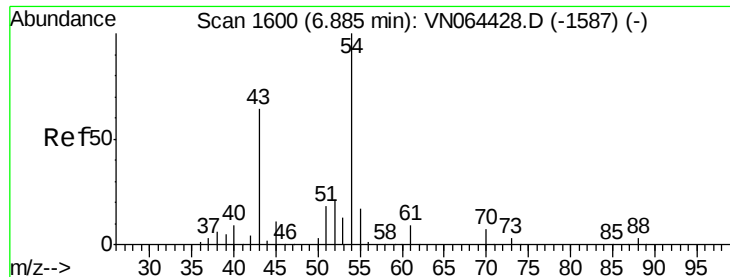
Tot Ion:113 Resp: 163445
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.1 121.7
 192 16.1 12.8 19.2



#36
 1,1-Dichloropropene
 Concen: 4.291 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064696.D
 Acq: 17 Nov 2020 21:31

Tgt Ion: 75 Resp: 21793
 Ion Ratio Lower Upper
 75 100
 110 6.3 16.0 48.0#
 77 0.0 24.0 36.0#

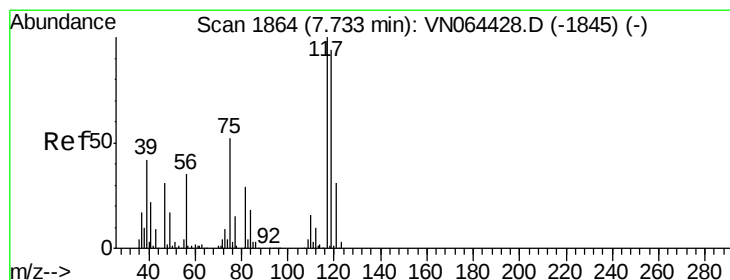
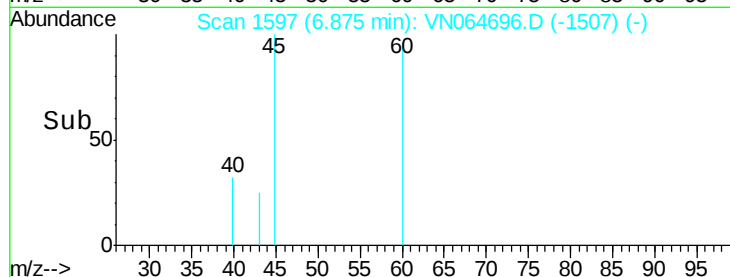
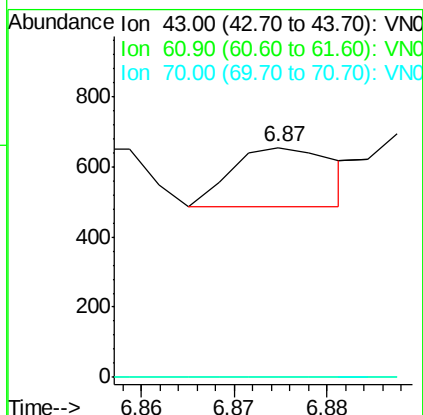
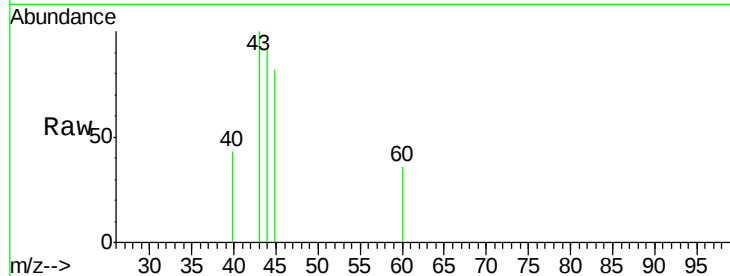




#37
Ethyl Acetate
Concen: 0.787 ug/l
RT: 6.87 min Scan# 1597
Delta R.T. -0.01 min
Lab File: VN064696.D
Acq: 17 Nov 2020 21:31

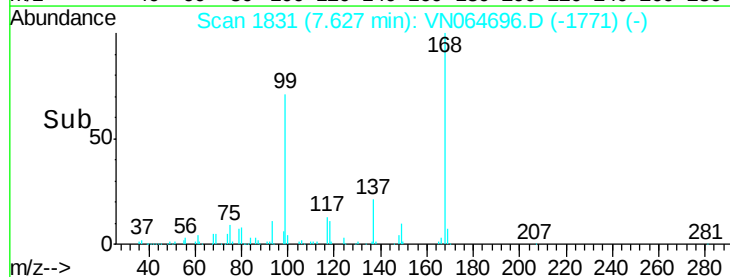
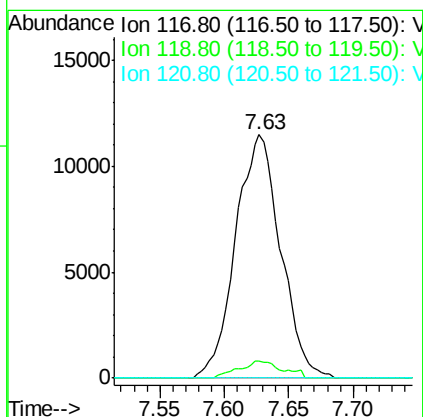
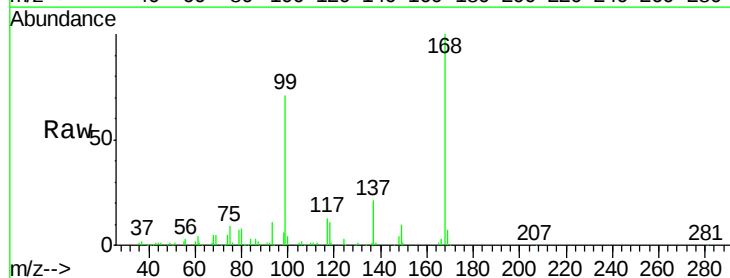
Instrument :
MSVOA_N
ClientSampleId :
MW-9

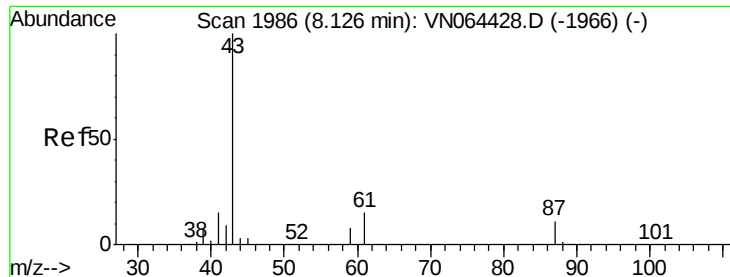
Tot Ion: 43 Resp: 131
Ion Ratio Lower Upper
43 100
61 0.0 10.0 15.0#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 5.132 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064696.D
Acq: 17 Nov 2020 21:31

Tgt Ion: 117 Resp: 27854
Ion Ratio Lower Upper
117 100
119 6.9 75.5 113.3#
121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 4.492 ug/l

RT: 8.20 min Scan# 2009

Delta R.T. 0.07 min

Lab File: VN064696.D

Acq: 17 Nov 2020 21:31

Instrument :

MSVOA_N

ClientSampled :

MW-9

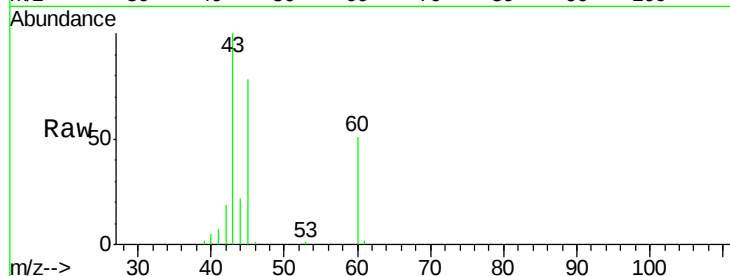
Tot Ion: 43 Resp: 36972

Ion Ratio Lower Upper

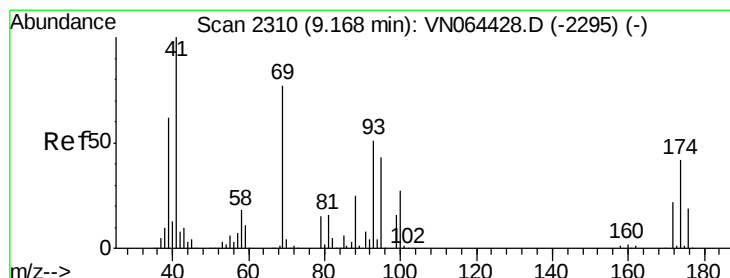
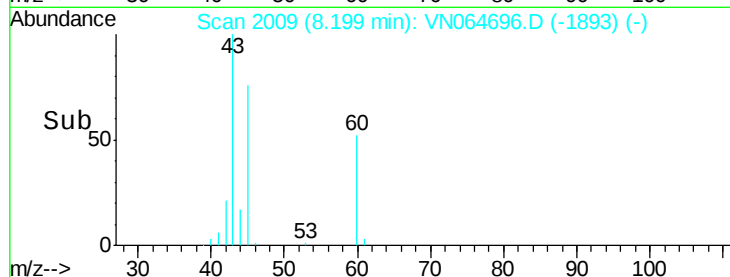
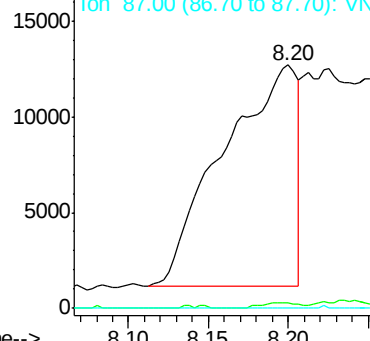
43 100

61 1.4 14.0 21.0#

87 0.0 9.1 13.7#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#49

1,4-Dioxane

Concen: 2.450 ug/l

RT: 9.16 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN064696.D

Acq: 17 Nov 2020 21:31

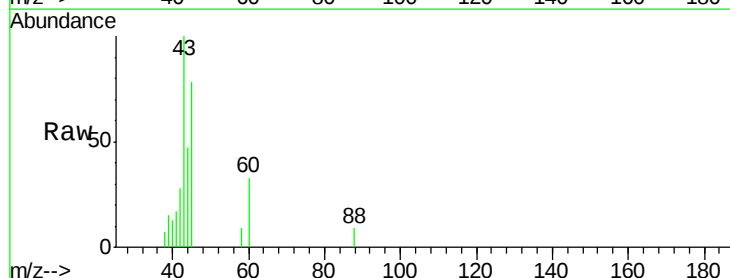
Tgt Ion: 88 Resp: 134

Ion Ratio Lower Upper

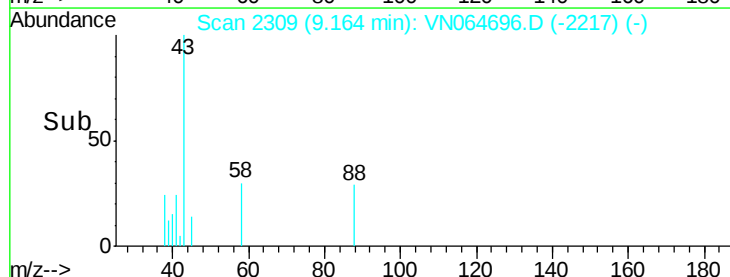
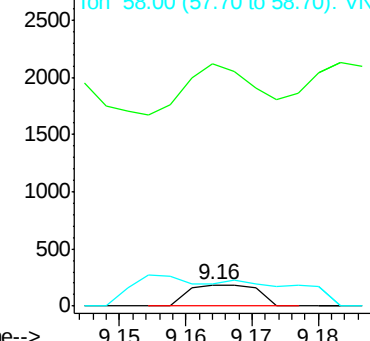
88 100

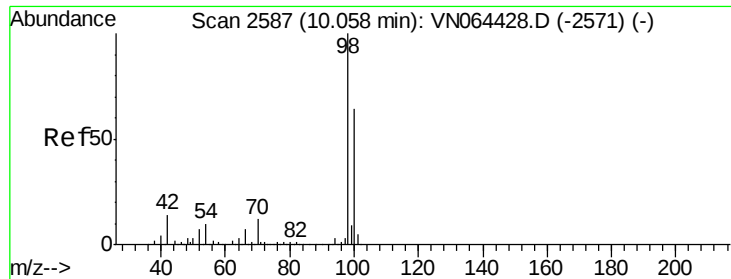
43 232.1 31.0 46.6#

58 153.0 58.4 87.6#



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

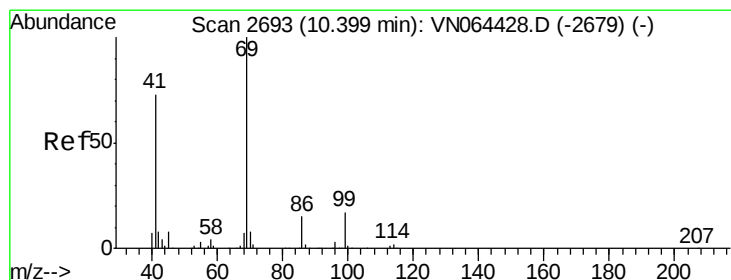
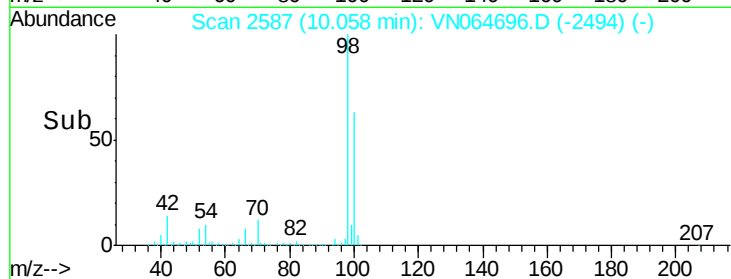
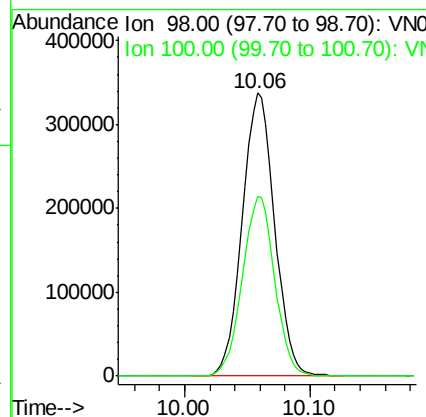
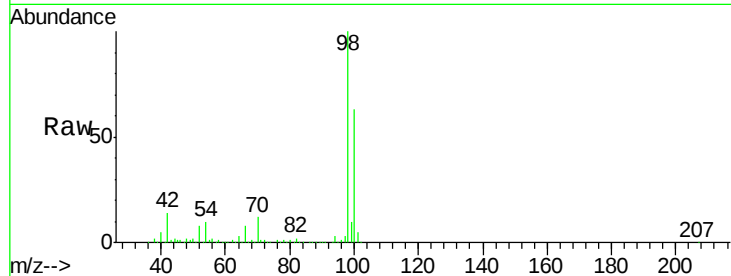




#50
Toluene-d8
Concen: 47.889 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN064696.D
Acq: 17 Nov 2020 21:31

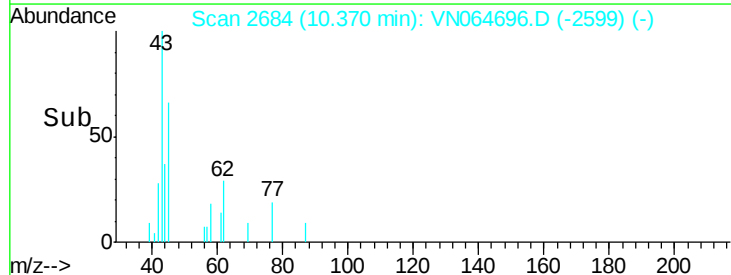
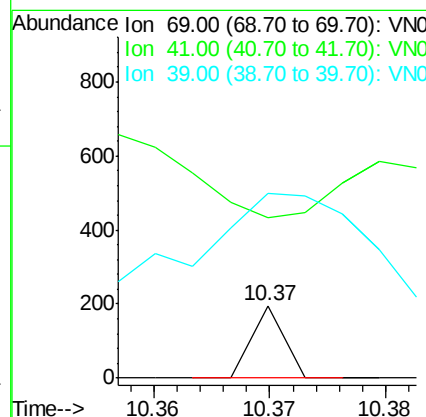
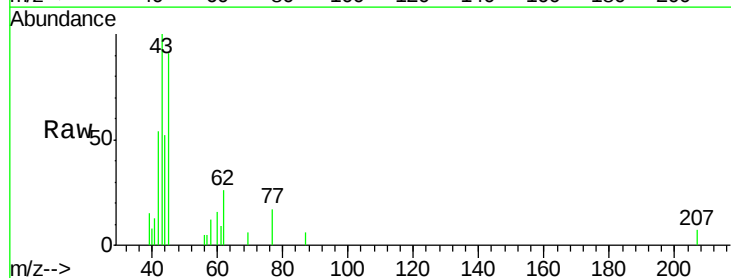
Instrument :
MSVOA_N
ClientSampled :
MW-9

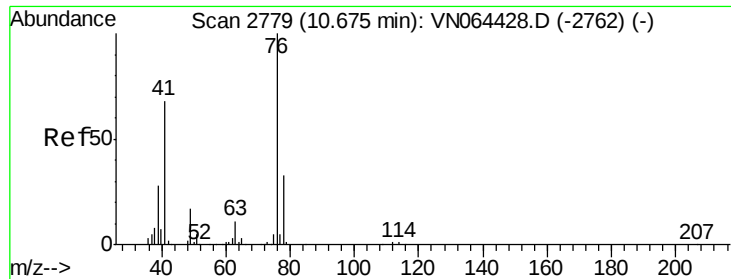
Tot Ion: 98 Resp: 605807
Ion Ratio Lower Upper
98 100
100 63.2 50.7 76.1



#56
Ethyl methacrylate
Concen: 1.847 ug/l
RT: 10.37 min Scan# 2684
Delta R.T. -0.03 min
Lab File: VN064696.D
Acq: 17 Nov 2020 21:31

Tgt Ion: 69 Resp: 38
Ion Ratio Lower Upper
69 100
41 542.1 59.3 88.9#
39 705.3 35.4 53.0#

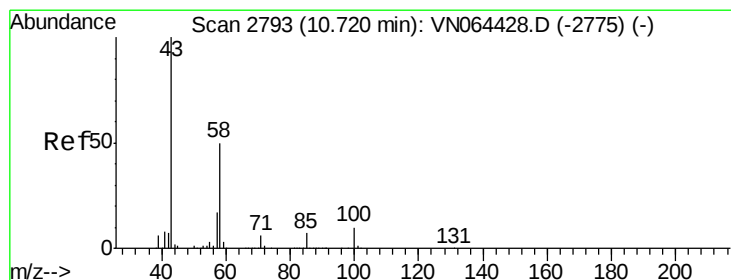
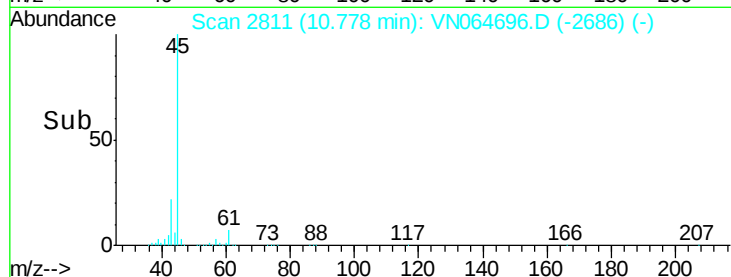
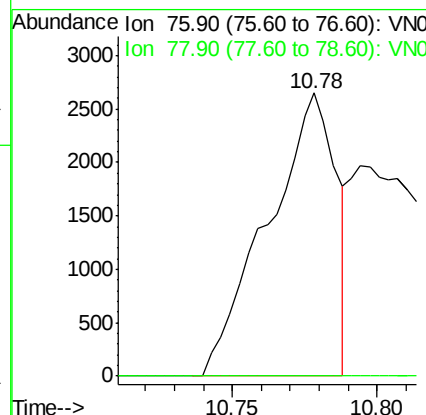
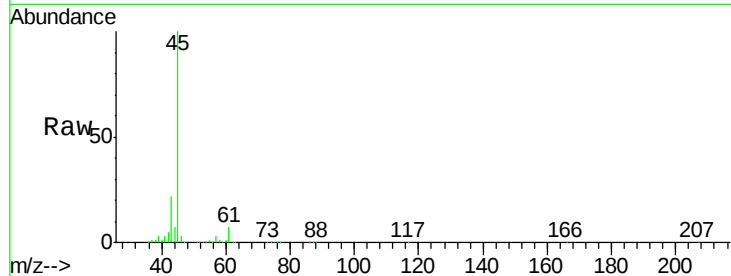




#57
 1,3-Dichloropropane
 Concen: 0.701 ug/l
 RT: 10.78 min Scan# 2811
 Delta R.T. 0.10 min
 Lab File: VN064696.D
 Acq: 17 Nov 2020 21:31

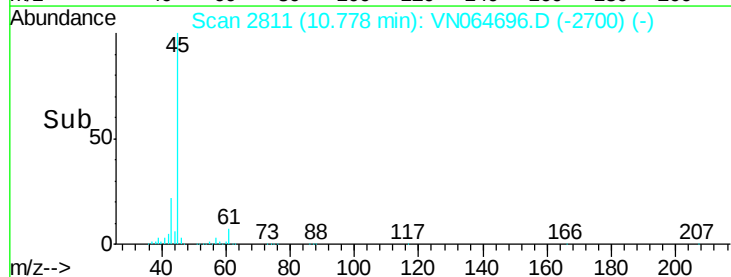
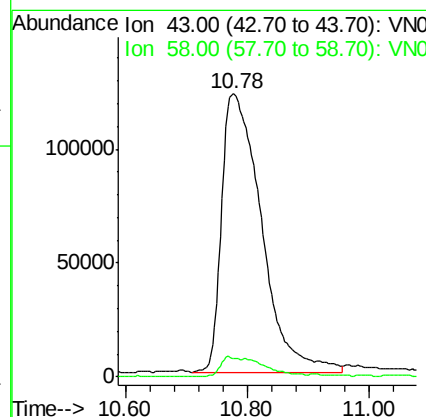
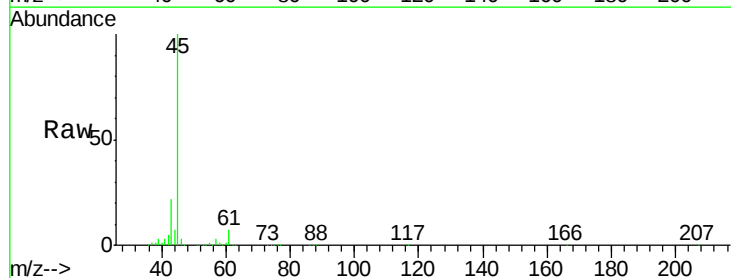
Instrument :
 MSVOA_N
 ClientSampled :
 MW-9

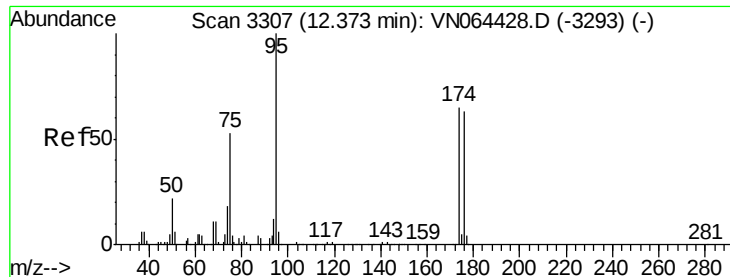
Tot Ion: 76 Resp: 4346
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 143.017 ug/l
 RT: 10.78 min Scan# 2811
 Delta R.T. 0.06 min
 Lab File: VN064696.D
 Acq: 17 Nov 2020 21:31

Tgt Ion: 43 Resp: 552873
 Ion Ratio Lower Upper
 43 100
 58 3.2 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 53.676 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.00 min

Lab File: VN064696.D

Acq: 17 Nov 2020 21:31

Instrument :

MSVOA_N

ClientSampled :

MW-9

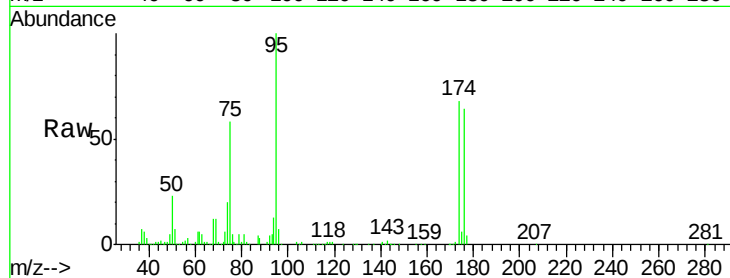
Tot Ion: 95 Resp: 256794

Ion Ratio Lower Upper

95 100

174 71.2 0.0 132.6

176 66.5 0.0 129.2



Abundance Ion 94.90 (94.60 to 95.60): VN064428.D (-3293) (-)

Ion 173.80 (173.50 to 174.50): VN064428.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN064428.D (-3293) (-)

12.37

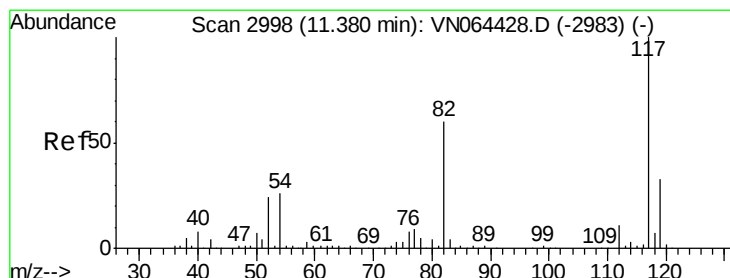
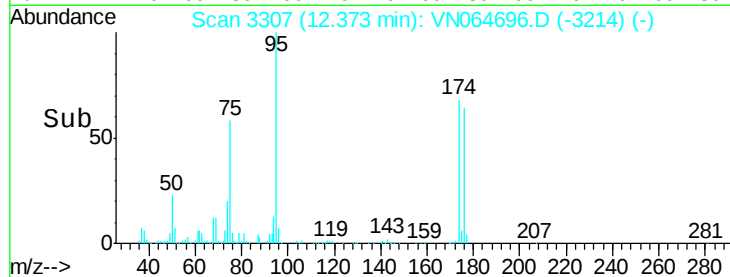
150000

100000

50000

0

Time--> 12.30 12.35 12.40 12.45



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064696.D

Acq: 17 Nov 2020 21:31

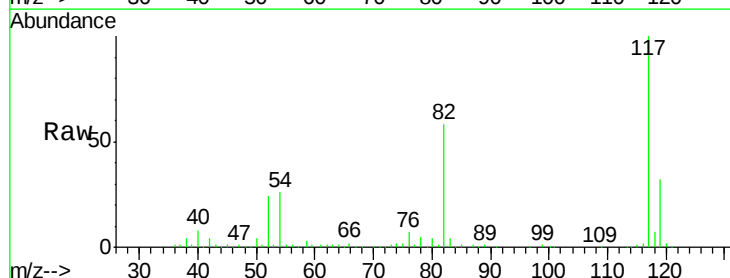
Tgt Ion: 117 Resp: 531126

Ion Ratio Lower Upper

117 100

82 58.4 48.1 72.1

119 31.9 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): VN064428.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN064428.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN064428.D (-2983) (-)

11.38

400000

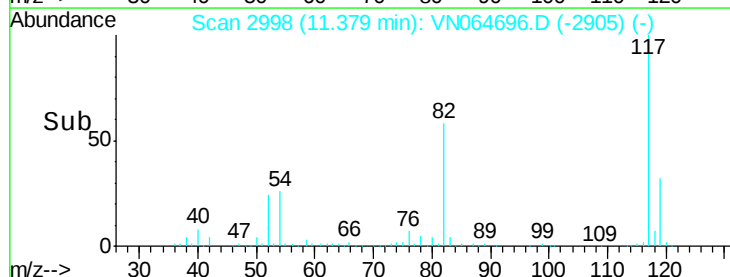
300000

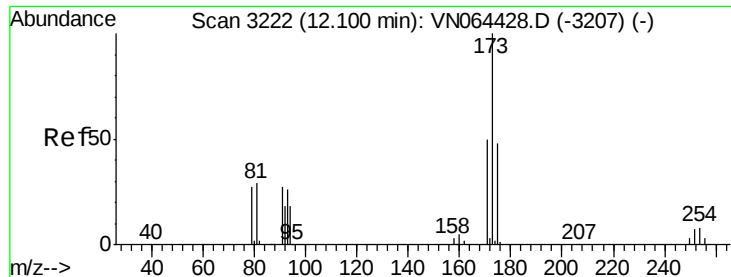
200000

100000

0

Time--> 11.30 11.40





#71

Bromoform

Concen: 1.377 ug/l

RT: 12.36 min Scan# 3303

Delta R.T. 0.26 min

Lab File: VN064696.D

Acq: 17 Nov 2020 21:31

Instrument :

MSVOA_N

ClientSampleId :

MW-9

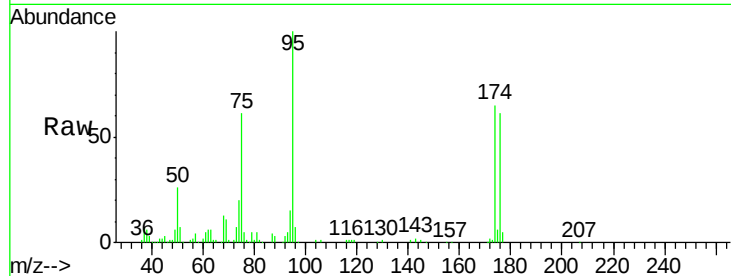
Tot Ion:173 Resp: 341

Ion Ratio Lower Upper

173 100

175 4077.7 23.7 71.1#

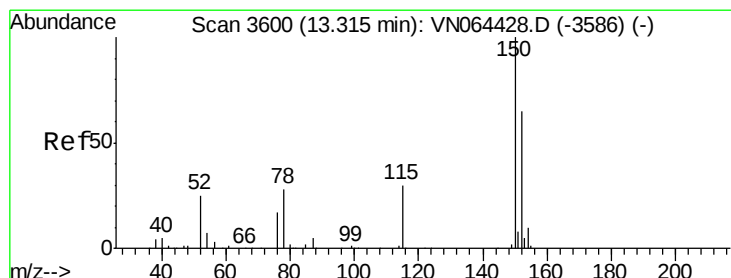
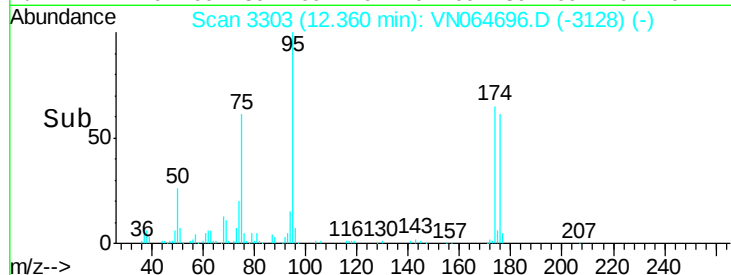
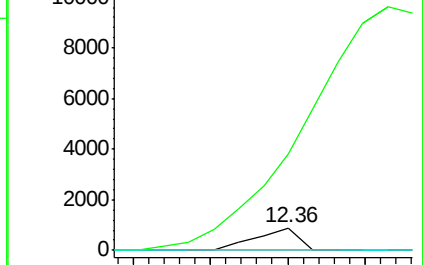
254 0.0 0.0 0.0



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# 3600

Delta R.T. -0.00 min

Lab File: VN064696.D

Acq: 17 Nov 2020 21:31

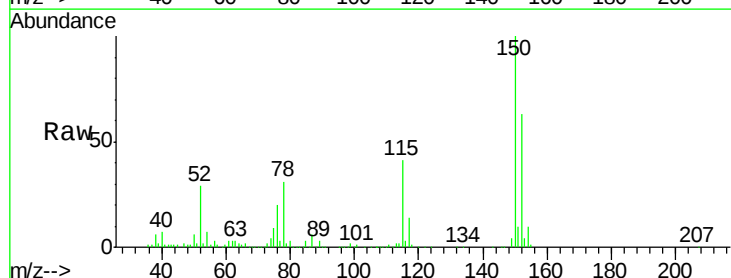
Tgt Ion:152 Resp: 227808

Ion Ratio Lower Upper

152 100

115 64.0 32.0 96.0

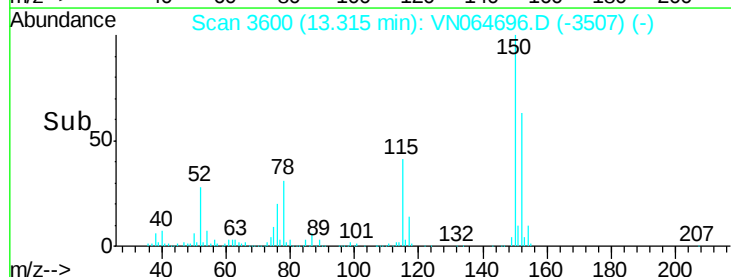
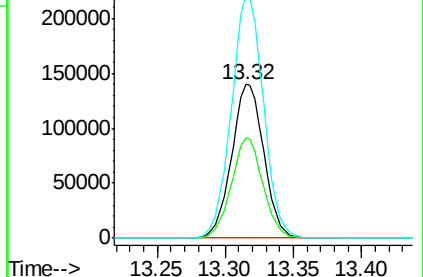
150 158.1 0.0 353.8

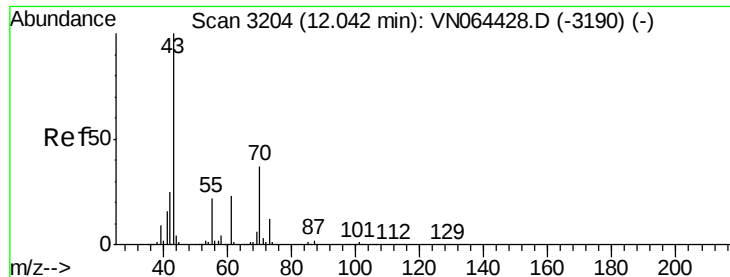


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

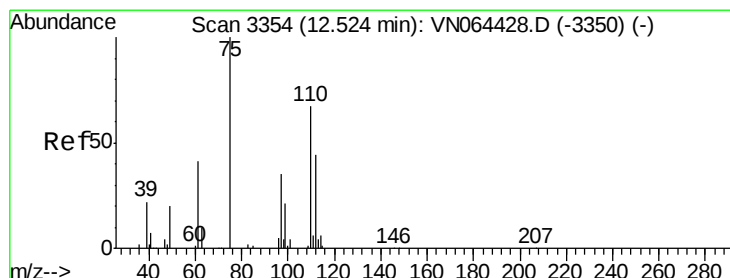
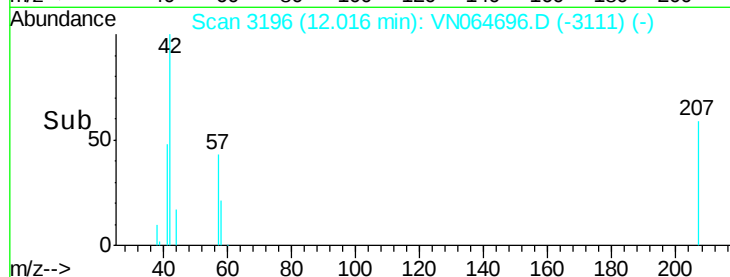
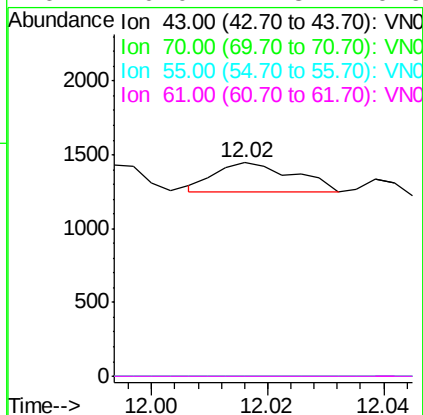
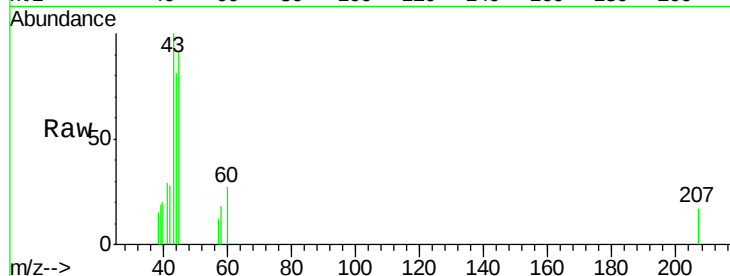




#74
N-amvl acetate
Concen: 1.235 ug/l
RT: 12.02 min Scan# 3196
Delta R.T. -0.03 min
Lab File: VN064696.D
Acq: 17 Nov 2020 21:31

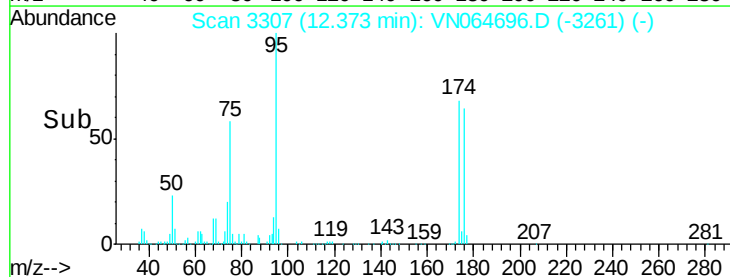
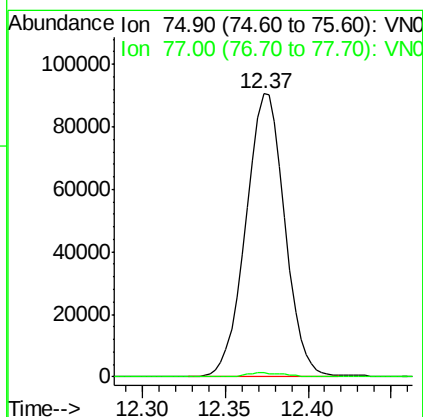
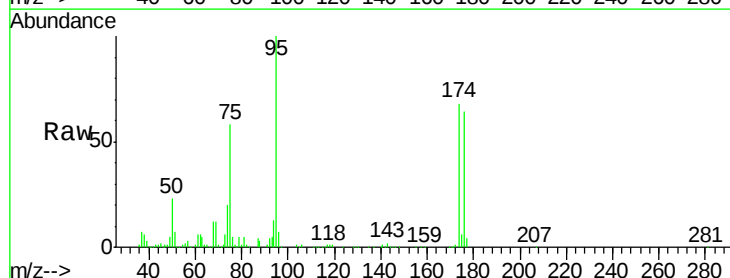
Instrument :
MSVOA_N
ClientSampleId :
MW-9

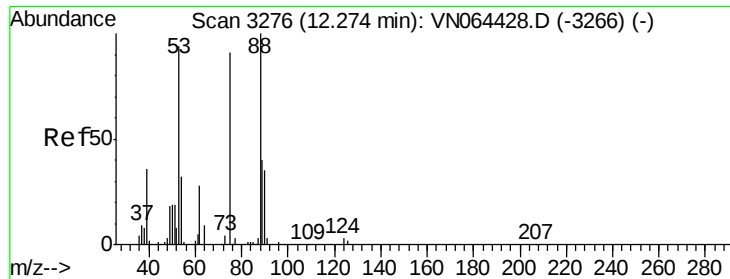
Tot Ion: 43 Resp: 188
Ion Ratio Lower Upper
43 100
70 0.0 29.6 44.4#
55 0.0 18.4 27.6#
61 0.0 17.8 26.6#



#76
1,2,3-Trichloropropane
Concen: 26.819 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. -0.15 min
Lab File: VN064696.D
Acq: 17 Nov 2020 21:31

Tgt Ion: 75 Resp: 148029
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#

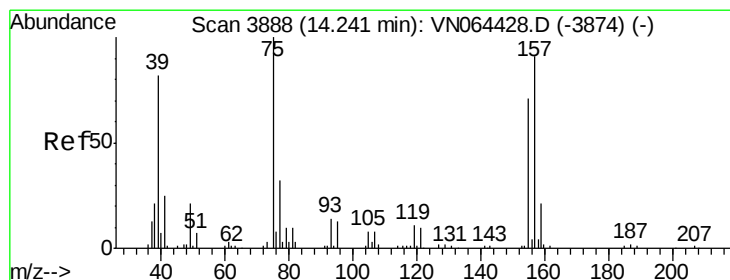
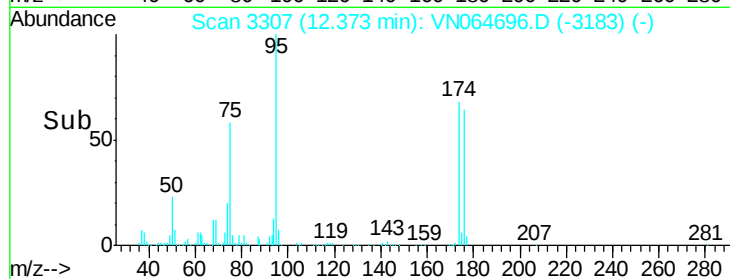
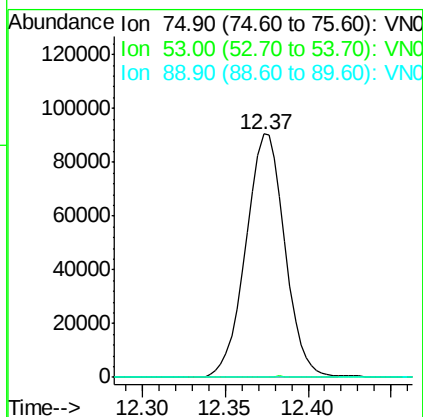
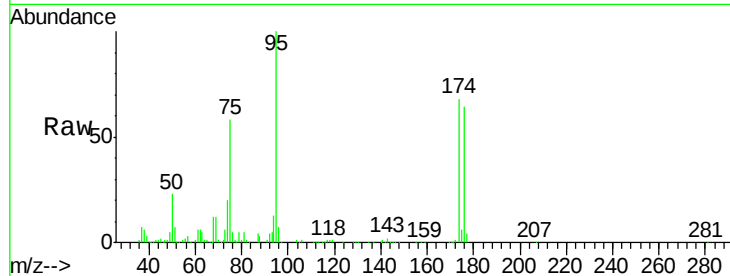




#81
trans-1,4-Dichloro-2-butene
Concen: 74.881 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.10 min
Lab File: VN064696.D
Acq: 17 Nov 2020 21:31

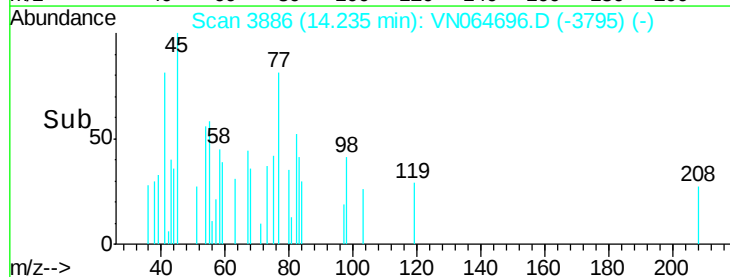
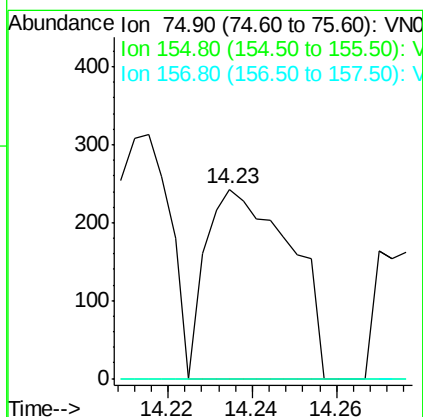
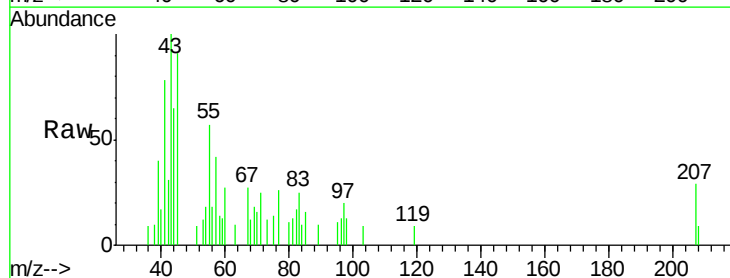
Instrument :
MSVOA_N
ClientSampled :
MW-9

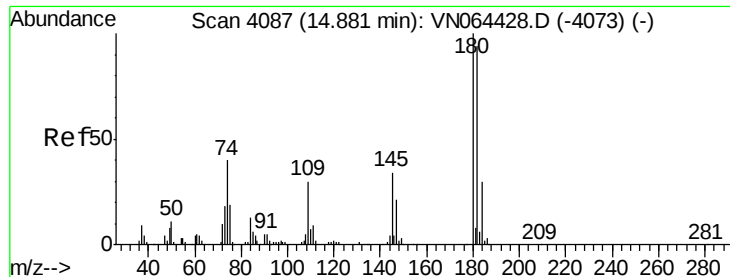
Tot Ion: 75 Resp: 148029
Ion Ratio Lower Upper
75 100
53 0.3 84.0 126.0#
89 0.0 36.3 54.5#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.305 ug/l
RT: 14.23 min Scan# 3886
Delta R.T. -0.01 min
Lab File: VN064696.D
Acq: 17 Nov 2020 21:31

Tgt Ion: 75 Resp: 338
Ion Ratio Lower Upper
75 100
155 0.0 34.6 103.9#
157 0.0 43.0 128.8#

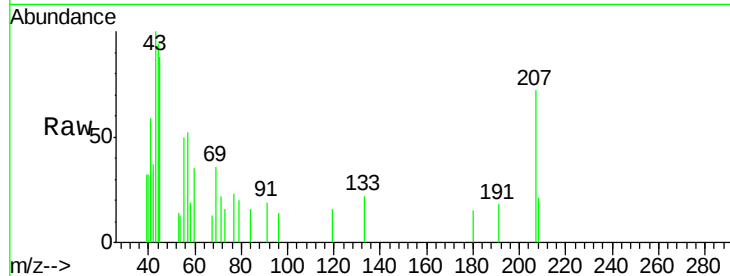




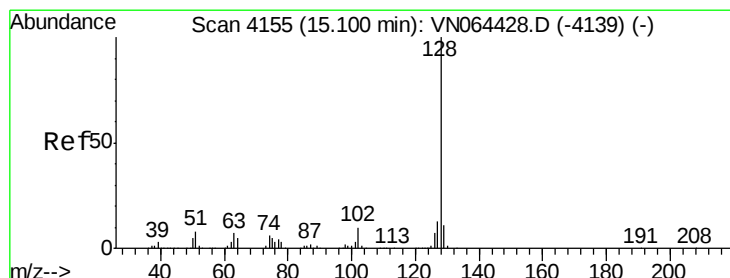
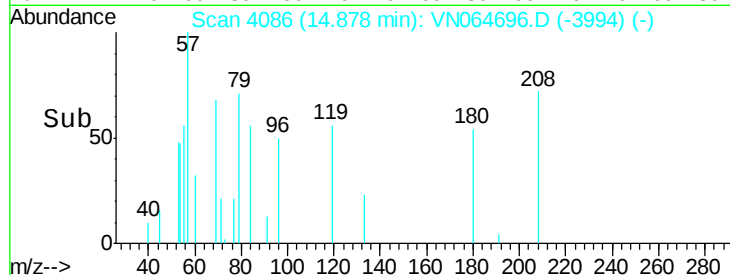
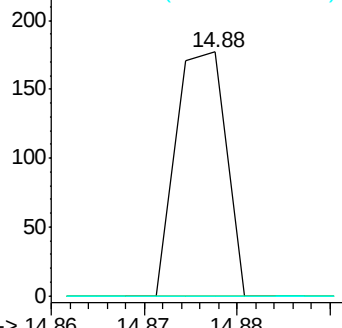
#93
 1,2,4-Trichlorobenzene
 Concen: 2.681 ug/l
 RT: 14.88 min Scan# 4086
 Delta R.T. -0.00 min
 Lab File: VN064696.D
 Acq: 17 Nov 2020 21:31

Instrument :
 MSVOA_N
 ClientSampled :
 MW-9

Tot Ion:180 Resp: 67
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.3 142.0#
 145 0.0 16.7 50.1#

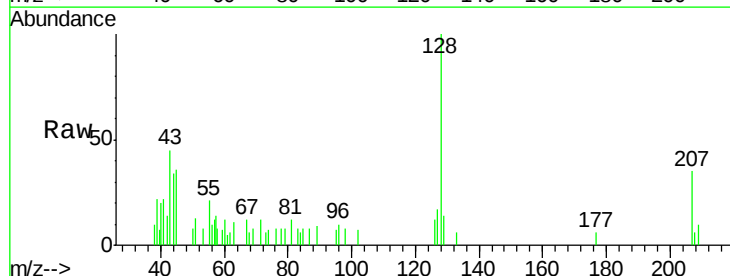


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 3.977 ug/l
 RT: 15.10 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN064696.D
 Acq: 17 Nov 2020 21:31

Tgt Ion:128 Resp: 4772
 Ion Ratio Lower Upper
 128 100
 127 19.4 10.5 15.7#
 129 15.6 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

