

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111920\
 Data File : VN064743.D
 Acq On : 19 Nov 2020 19:14
 Operator : JC/MD
 Sample : L4783-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-10D

Quant Time: Nov 20 03:53:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 18 15:29:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	196471	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	402990	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	428832	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	177111	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	198643	57.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.94%	
35) Dibromofluoromethane	7.55	113	134958	58.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.68%	
50) Toluene-d8	10.06	98	523872	50.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.50%	
62) 4-Bromofluorobenzene	12.38	95	206223	52.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.86%	

Target Compounds

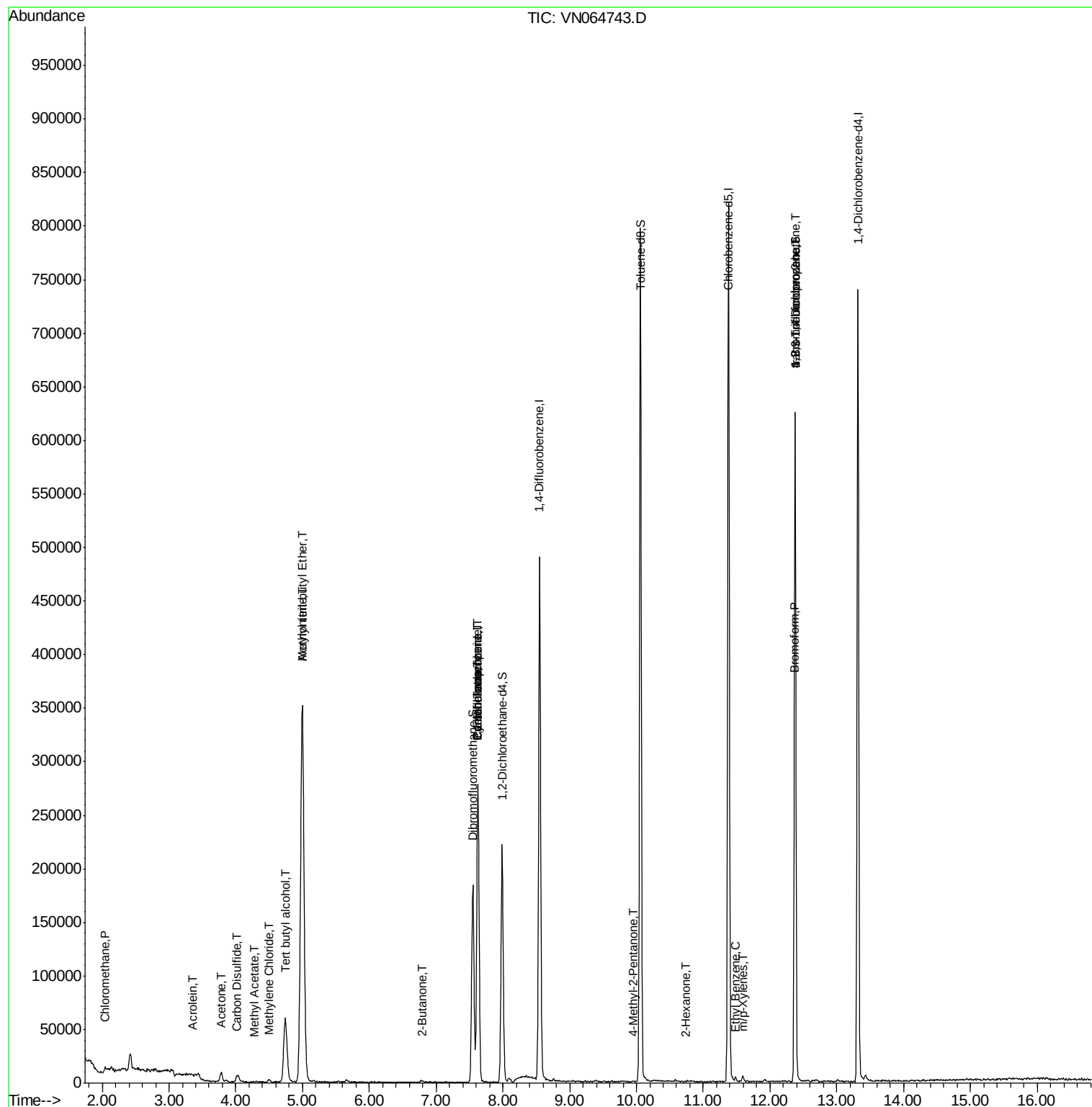
						Qvalue
3) Chloromethane	2.04	50	2215	0.816	ug/l	98
11) Tert butyl alcohol	4.74	59	99464	296.632	ug/l	100
13) Acrolein	3.36	56	169	2.153	ug/l #	37
15) Acrylonitrile	4.99	53	4735	4.809	ug/l #	1
16) Acetone	3.78	43	14498	22.050	ug/l	100
17) Carbon Disulfide	4.01	76	1185	0.324	ug/l #	75
18) Methyl Acetate	4.29	43	726	1.613	ug/l #	54
19) Methyl tert-butyl Ether	5.00	73	559196	79.118	ug/l	100
20) Methylene Chloride	4.49	84	965	0.377	ug/l #	69
25) 2-Butanone	6.80	43	1373	1.039	ug/l #	51
31) Cyclohexane	7.62	56	3940	1.054	ug/l #	25
36) 1,1-Dichloropropene	7.63	75	18341	4.424	ug/l #	54
38) Carbon Tetrachloride	7.62	117	23086	5.239	ug/l #	15
51) 4-Methyl-2-Pentanone	9.95	43	988	6.367	ug/l #	39
59) 2-Hexanone	10.72	43	520	8.608	ug/l #	28
67) Ethyl Benzene	11.49	91	3388	0.211	ug/l	99
68) m/p-Xylenes	11.59	106	1139	4.229	ug/l #	22
71) Bromoform	12.35	173	100	2.483	ug/l #	29
76) 1,2,3-Trichloropropane	12.38	75	118201	30.974	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	118201	78.909	ug/l #	5

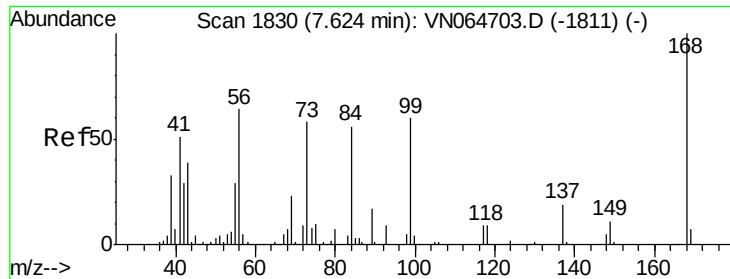
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN064743.D

Acq: 19 Nov 2020 19:14

Instrument :

MSVOA_N

ClientSampleId :

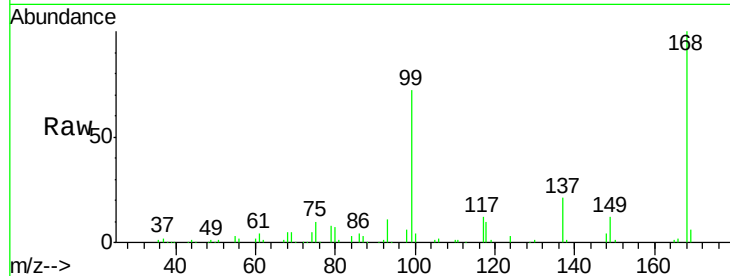
MW-10D

Tot Ion:168 Resp: 196471

Ion Ratio Lower Upper

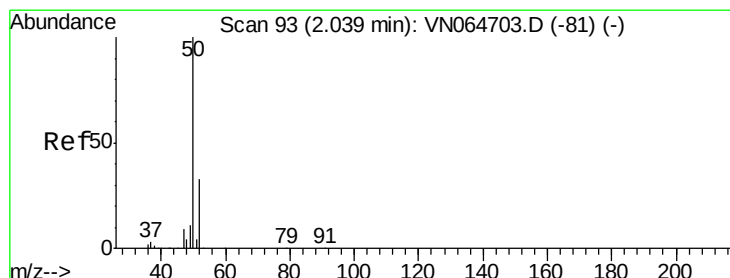
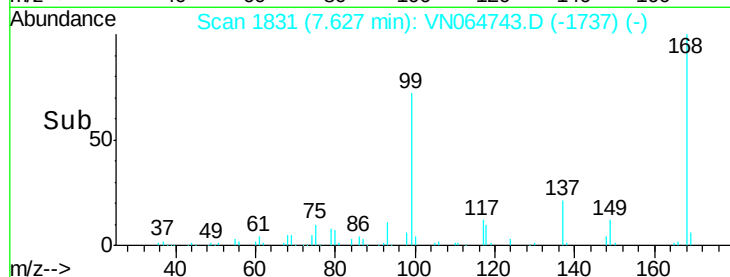
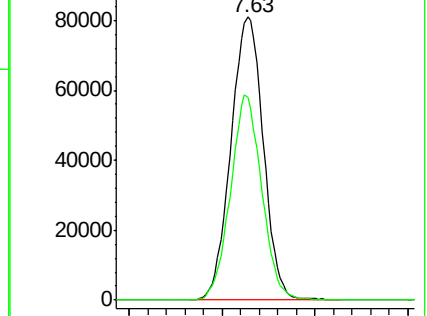
168 100

99 71.9 55.7 83.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: 0.816 ug/l

RT: 2.04 min Scan# 94

Delta R.T. 0.00 min

Lab File: VN064743.D

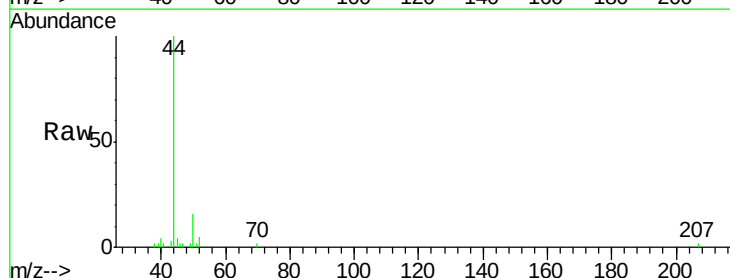
Acq: 19 Nov 2020 19:14

Tgt Ion: 50 Resp: 2215

Ion Ratio Lower Upper

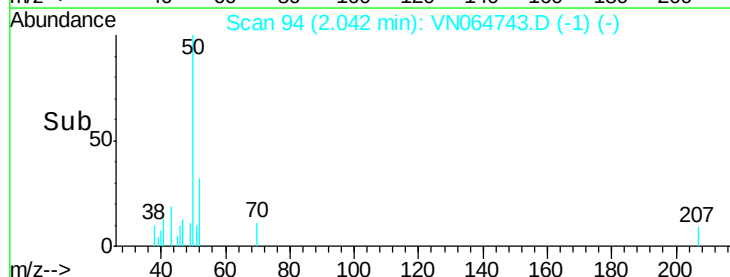
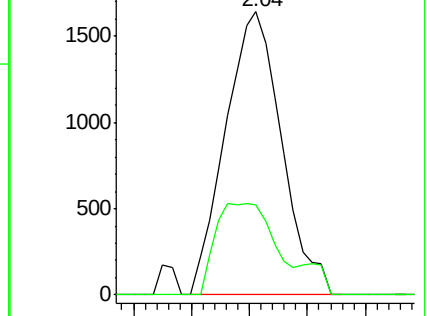
50 100

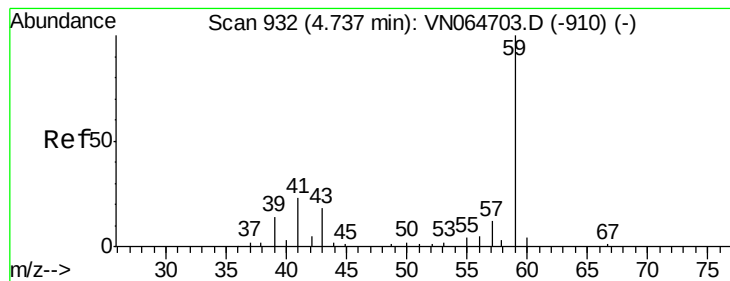
52 32.0 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



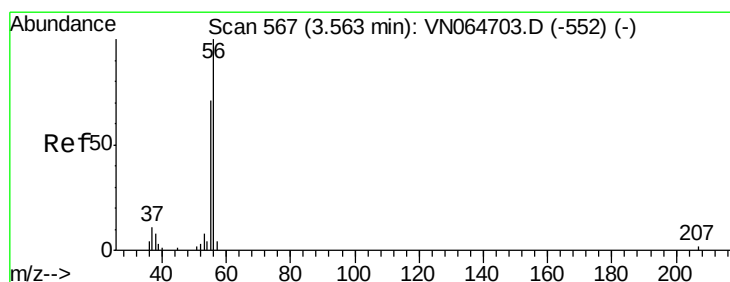
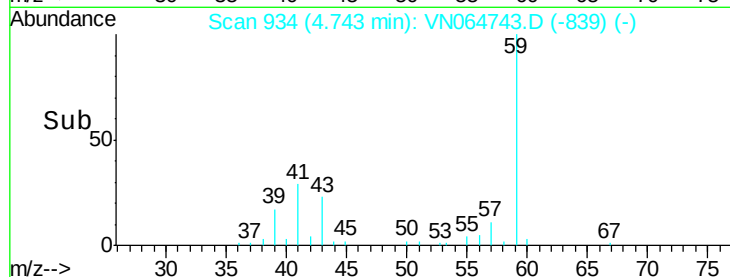
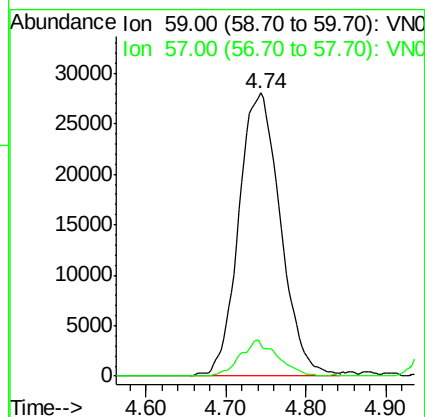
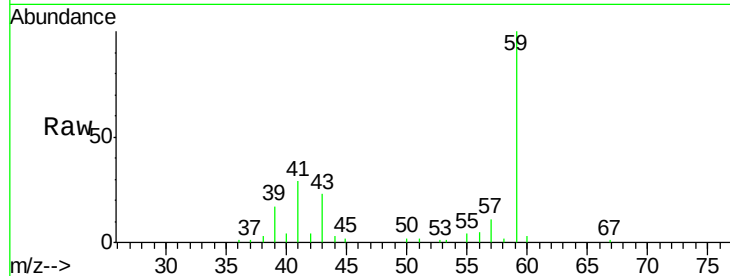


#11

Tert butyl alcohol
 Concen: 296.632 ug/l
 RT: 4.74 min Scan# 934
 Delta R.T. 0.01 min
 Lab File: VN064743.D
 Acq: 19 Nov 2020 19:14

Instrument :
 MSVOA_N
 ClientSampled :
 MW-10D

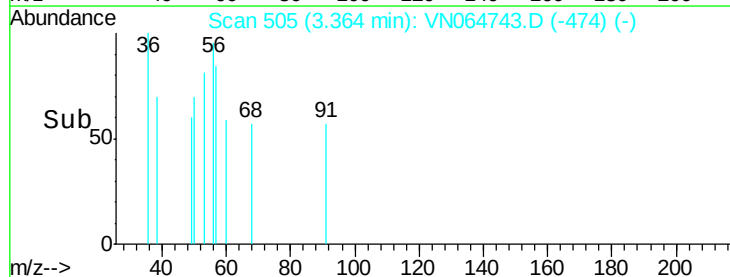
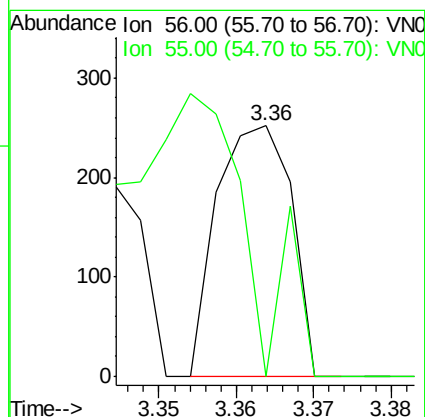
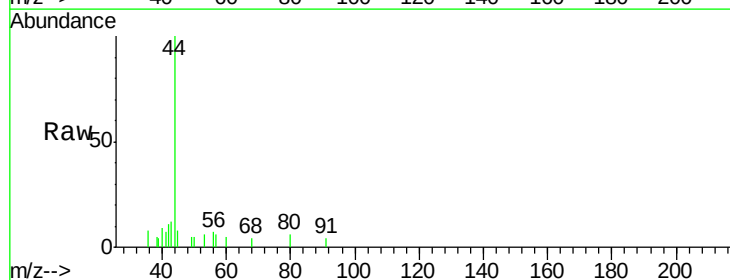
Tot Ion: 59 Resp: 99464
 Ion Ratio Lower Upper
 59 100
 57 11.4 9.1 13.7

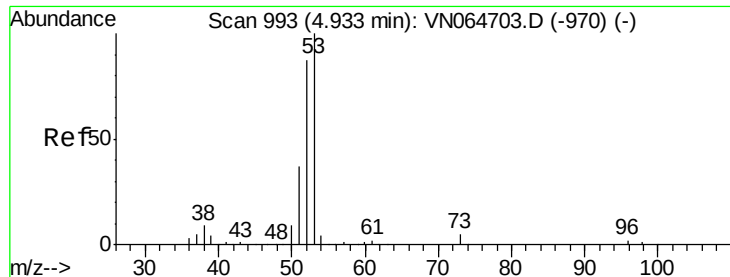


#13

Acrolein
 Concen: 2.153 ug/l
 RT: 3.36 min Scan# 505
 Delta R.T. -0.20 min
 Lab File: VN064743.D
 Acq: 19 Nov 2020 19:14

Tgt Ion: 56 Resp: 169
 Ion Ratio Lower Upper
 56 100
 55 132.0 61.8 92.6#





#15

Acrylonitrile

Concen: 4.809 ug/l

RT: 4.99 min Scan# 1010

Delta R.T. 0.05 min

Lab File: VN064743.D

Acq: 19 Nov 2020 19:14

Instrument :

MSVOA_N

ClientSampleId :

MW-10D

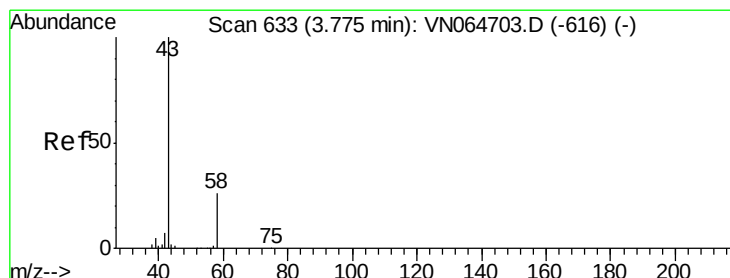
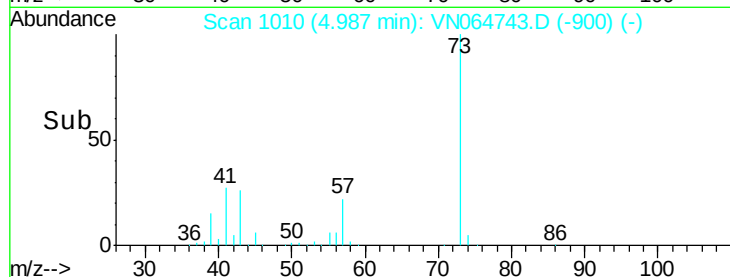
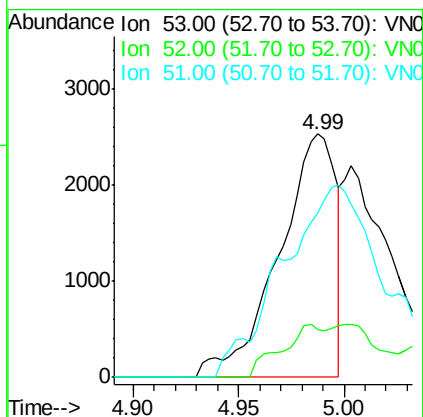
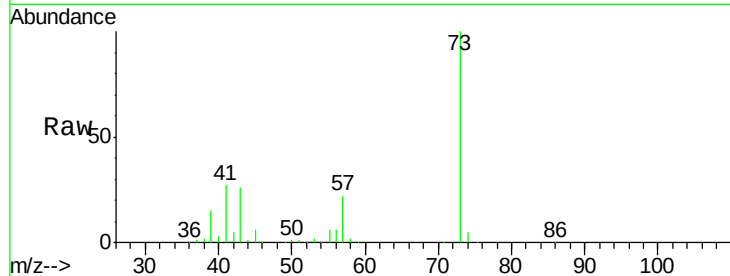
Tot Ion: 53 Resp: 4735

Ion Ratio Lower Upper

53 100

52 16.3 67.2 100.8#

51 142.5 31.0 46.6#



#16

Acetone

Concen: 22.050 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064743.D

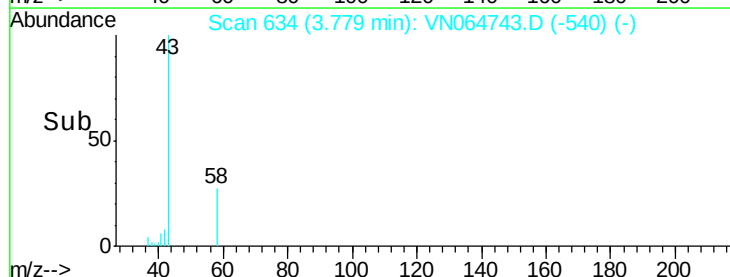
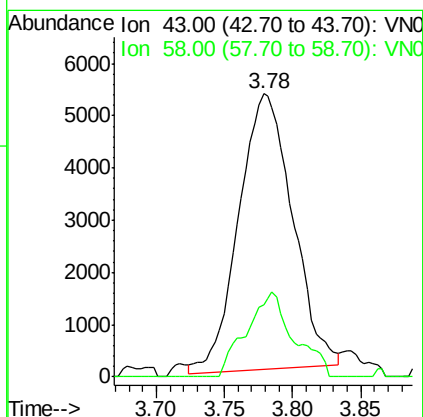
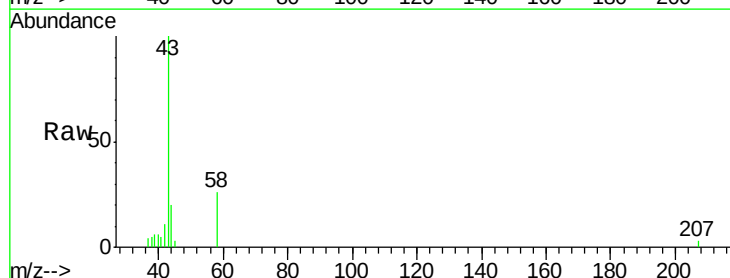
Acq: 19 Nov 2020 19:14

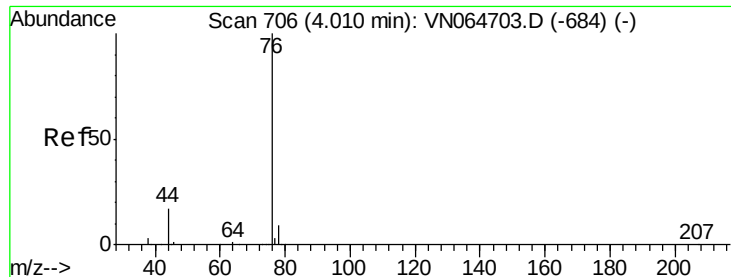
Tgt Ion: 43 Resp: 14498

Ion Ratio Lower Upper

43 100

58 26.7 21.2 31.8





#17

Carbon Disulfide

Concen: 0.324 ug/l

RT: 4.01 min Scan# 706

Delta R.T. 0.00 min

Lab File: VN064743.D

Acq: 19 Nov 2020 19:14

Instrument :

MSVOA_N

ClientSampleId :

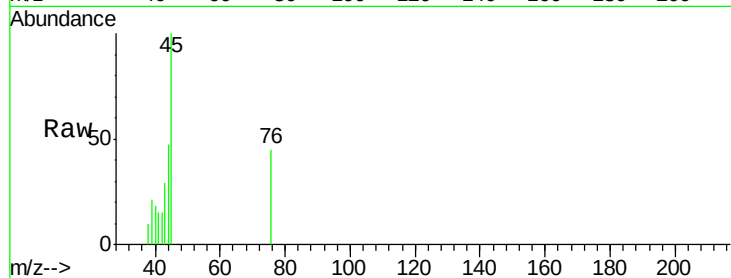
MW-10D

Tot Ion: 76 Resp: 1185

Ion Ratio Lower Upper

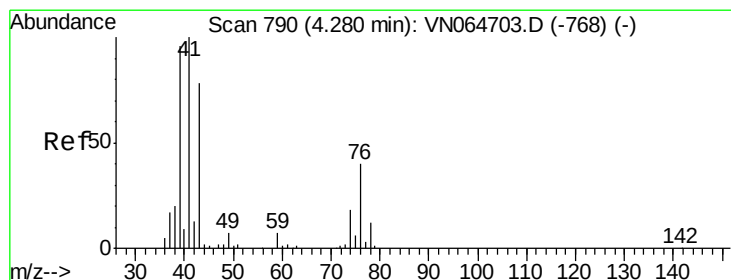
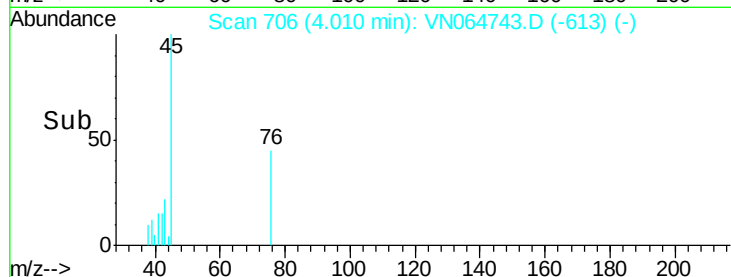
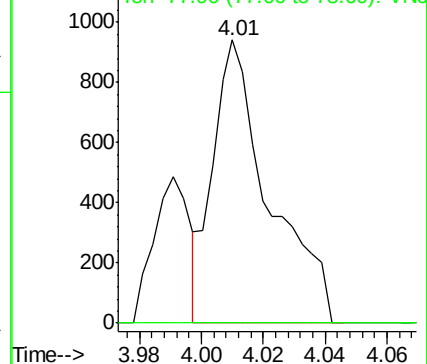
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 1.613 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN064743.D

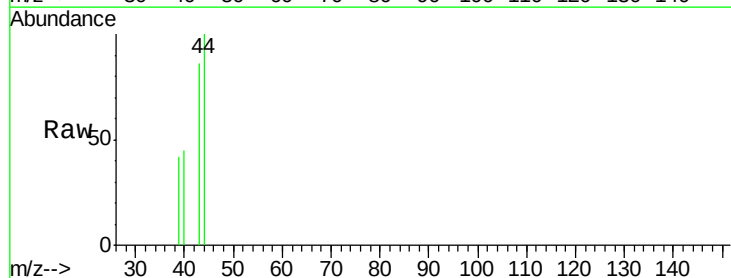
Acq: 19 Nov 2020 19:14

Tgt Ion: 43 Resp: 726

Ion Ratio Lower Upper

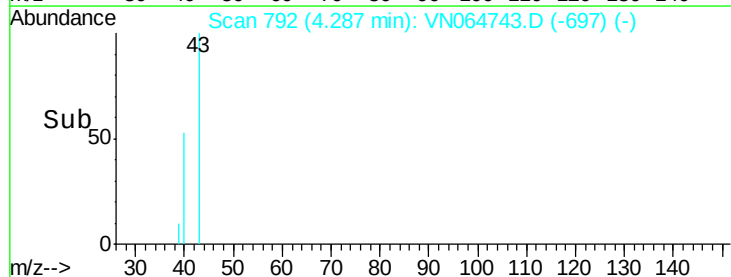
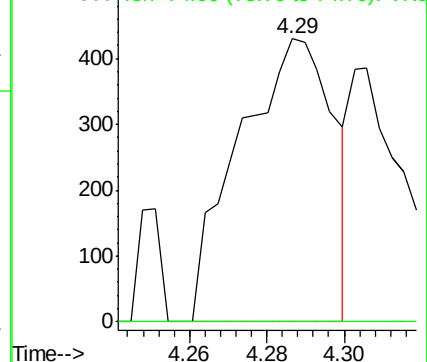
43 100

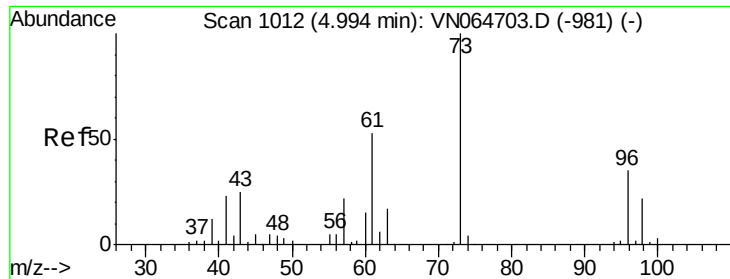
74 0.0 17.6 26.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

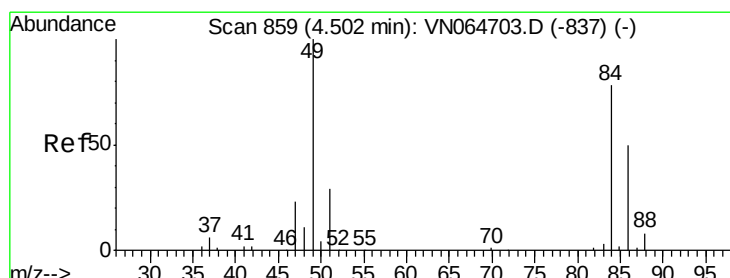
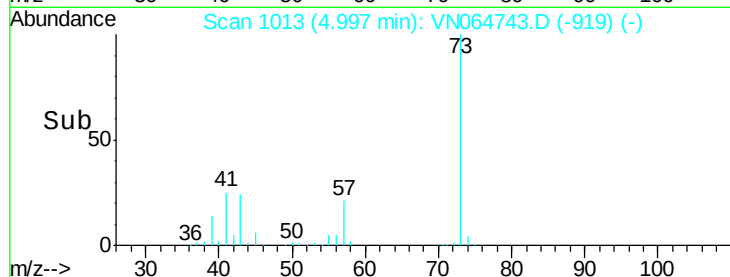
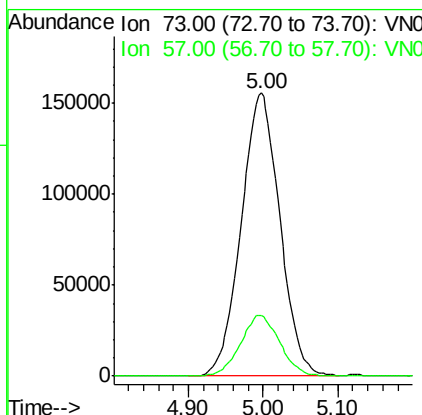
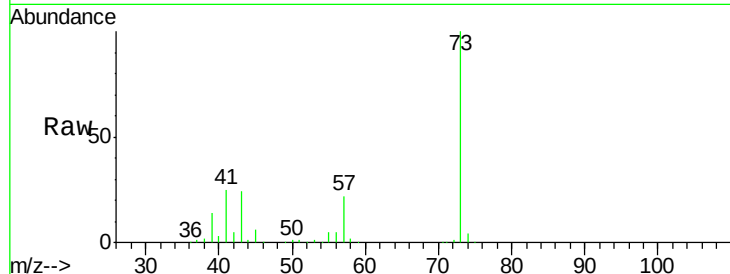




#19
Methyl tert-butyl Ether
Concen: 79.118 ug/l
RT: 5.00 min Scan# 1013
Delta R.T. 0.00 min
Lab File: VN064743.D
Acq: 19 Nov 2020 19:14

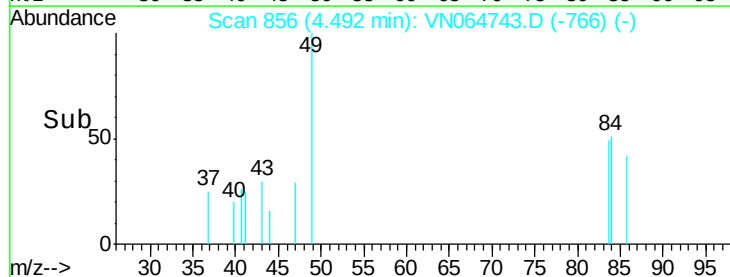
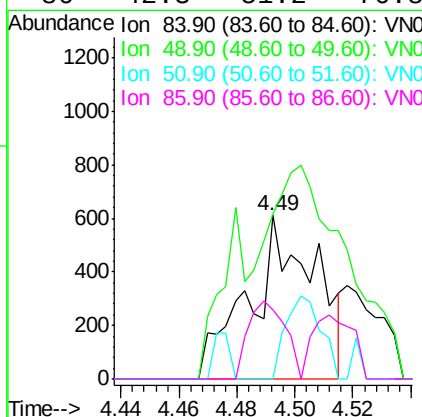
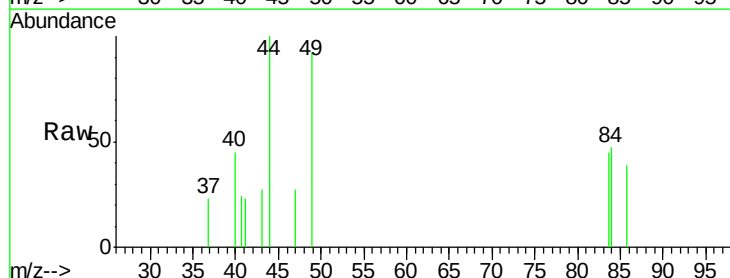
Instrument :
MSVOA_N
ClientSampled :
MW-10D

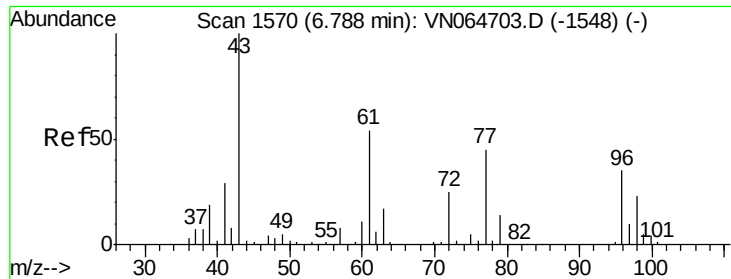
Tot Ion: 73 Resp: 559196
Ion Ratio Lower Upper
73 100
57 21.5 17.3 25.9



#20
Methylene Chloride
Concen: 0.377 ug/l
RT: 4.49 min Scan# 856
Delta R.T. -0.01 min
Lab File: VN064743.D
Acq: 19 Nov 2020 19:14

Tgt Ion: 84 Resp: 965
Ion Ratio Lower Upper
84 100
49 100.5 102.4 153.6#
51 0.0 29.4 44.2#
86 42.3 51.2 76.8#

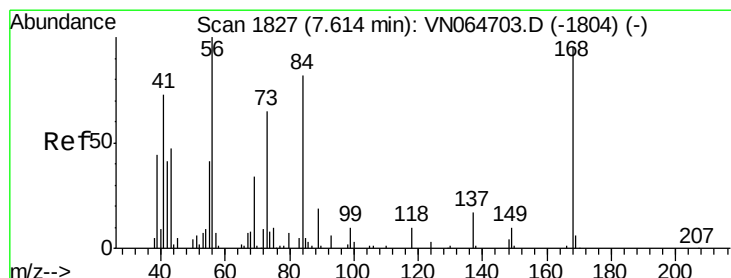
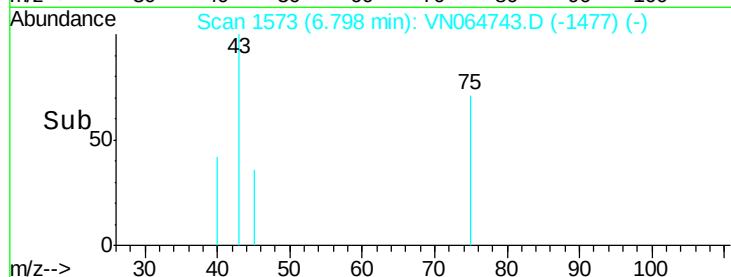
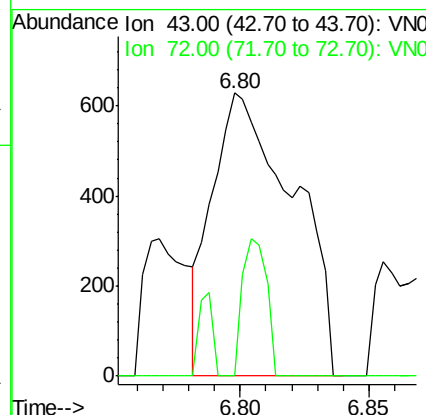
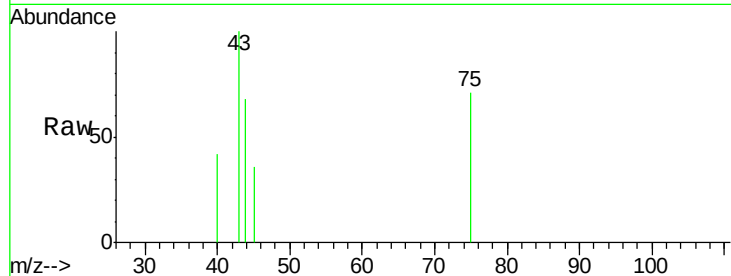




#25
2-Butanone
Concen: 1.039 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN064743.D
Acq: 19 Nov 2020 19:14

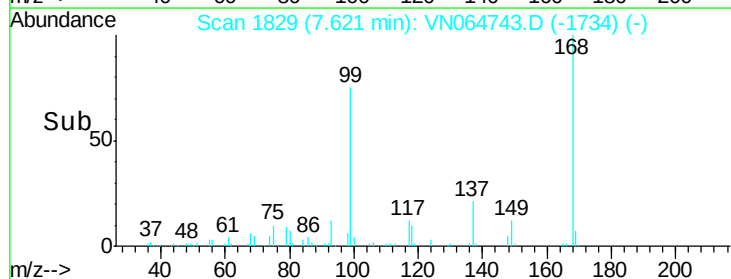
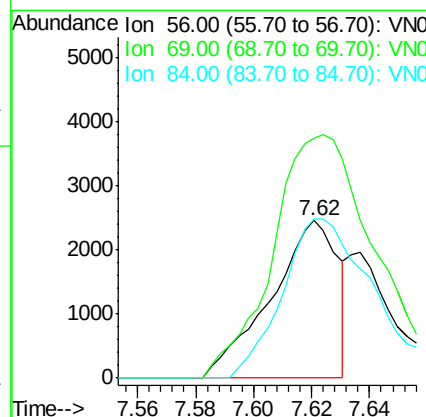
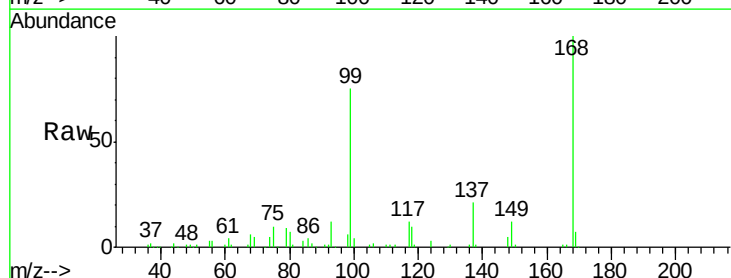
Instrument :
MSVOA_N
ClientSampled :
MW-10D

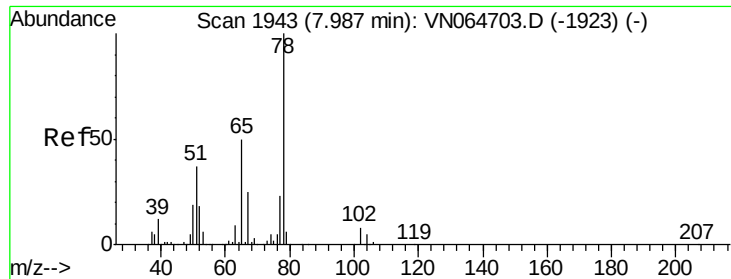
Tot Ion: 43 Resp: 1373
Ion Ratio Lower Upper
43 100
72 0.0 19.7 29.5#



#31
Cyclohexane
Concen: 1.054 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN064743.D
Acq: 19 Nov 2020 19:14

Tgt Ion: 56 Resp: 3940
Ion Ratio Lower Upper
56 100
69 151.9 27.2 40.8#
84 100.8 65.9 98.9#

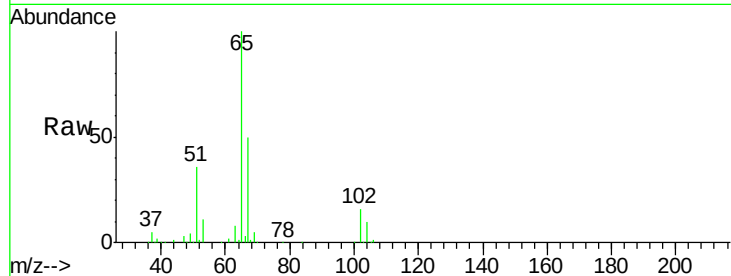




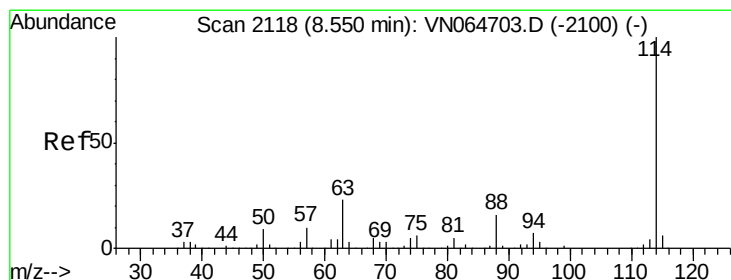
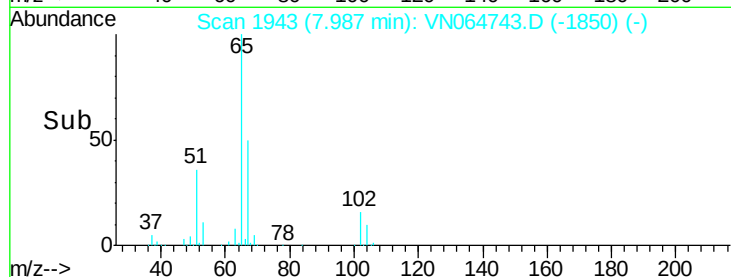
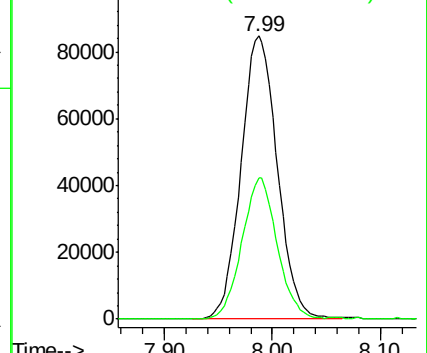
#33
 1,2-Dichloroethane-d4
 Concen: 57.474 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN064743.D
 Acq: 19 Nov 2020 19:14

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-10D

Tot Ion: 65 Resp: 198643
 Ion Ratio Lower Upper
 65 100
 67 48.2 0.0 99.8

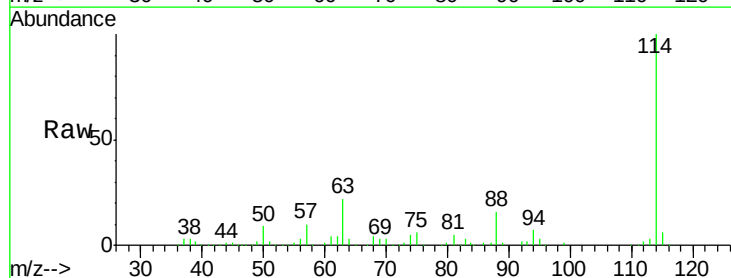


Abundance Ion 64.90 (64.60 to 65.60): VN064743.D (-1923) (-)
 Ion 66.90 (66.60 to 67.60): VN064743.D (-1923) (-)

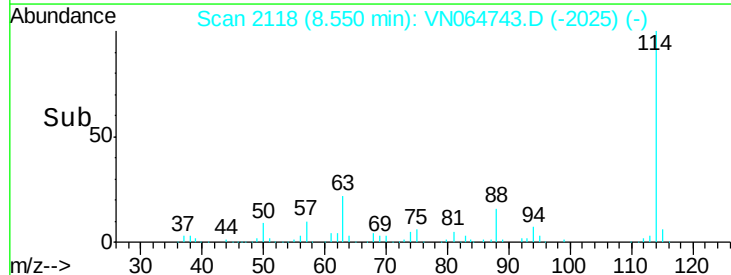
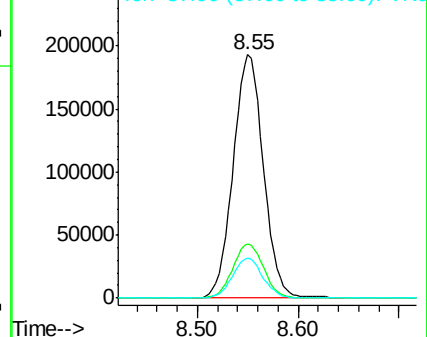


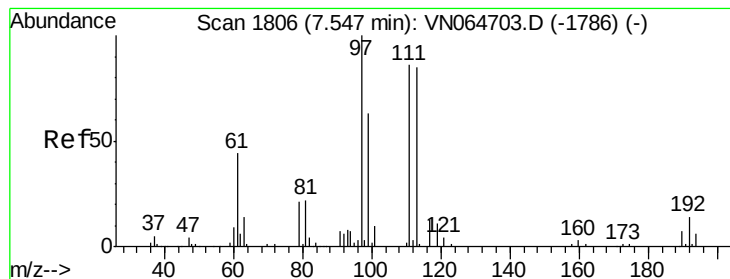
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064743.D
 Acq: 19 Nov 2020 19:14

Tgt Ion: 114 Resp: 402990
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 46.0
 88 16.3 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): VN064743.D (-2100) (-)
 Ion 63.00 (62.70 to 63.70): VN064743.D (-2100) (-)
 Ion 87.90 (87.60 to 88.60): VN064743.D (-2100) (-)





#35

Dibromofluoromethane

Concen: 58.838 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN064743.D

Acq: 19 Nov 2020 19:14

Instrument :

MSVOA_N

ClientSampleId :

MW-10D

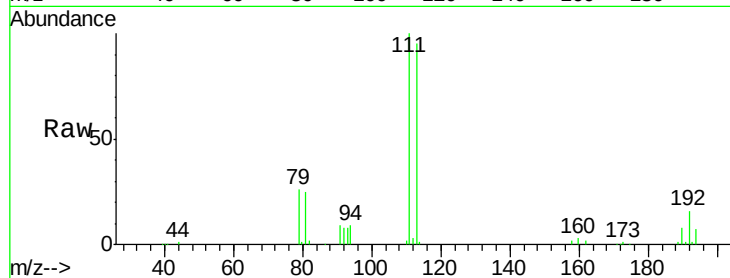
Tot Ion:113 Resp: 134958

Ion Ratio Lower Upper

113 100

111 104.6 82.2 123.4

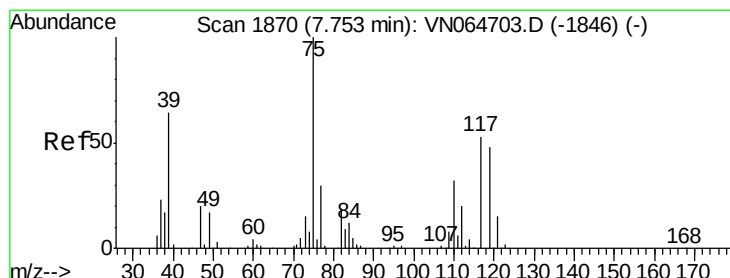
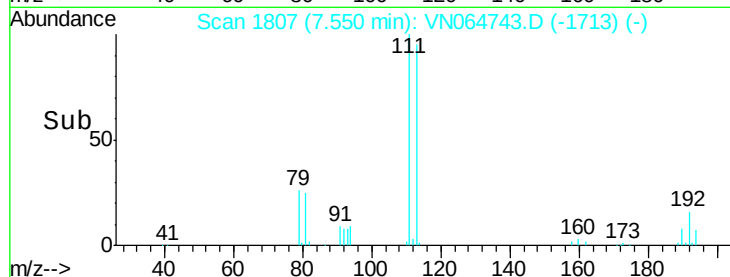
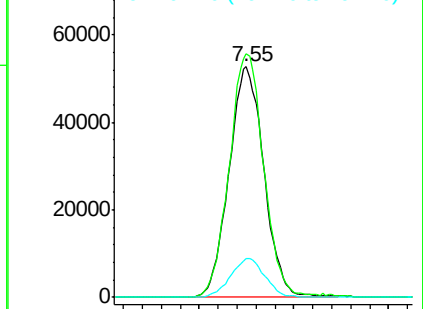
192 16.4 12.7 19.1



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: 4.424 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN064743.D

Acq: 19 Nov 2020 19:14

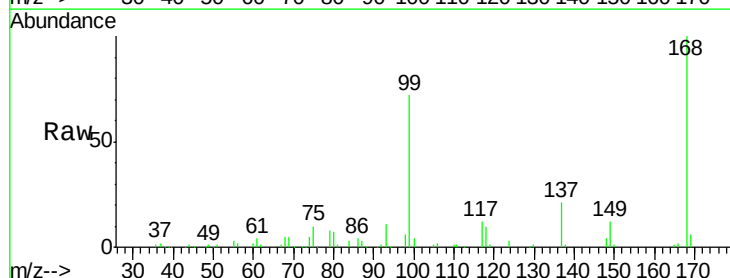
Tgt Ion: 75 Resp: 18341

Ion Ratio Lower Upper

75 100

110 11.7 16.2 48.6#

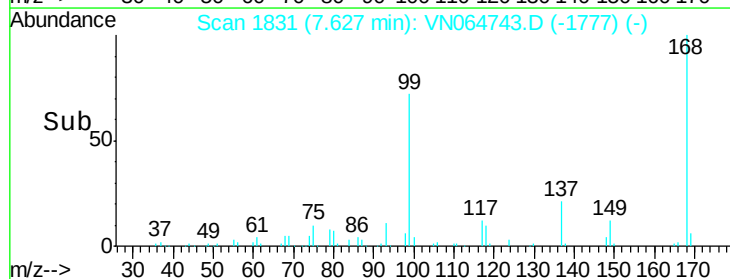
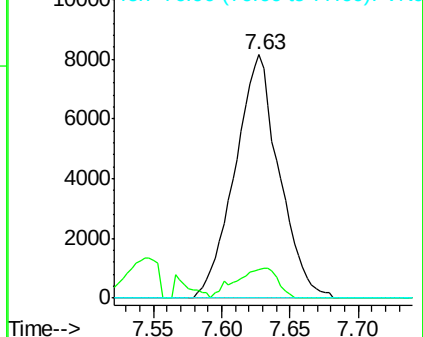
77 0.0 24.4 36.6#

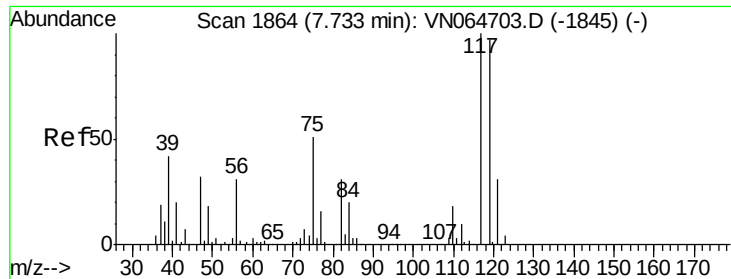


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 5.239 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064743.D

Acq: 19 Nov 2020 19:14

Instrument :

MSVOA_N

ClientSampled :

MW-10D

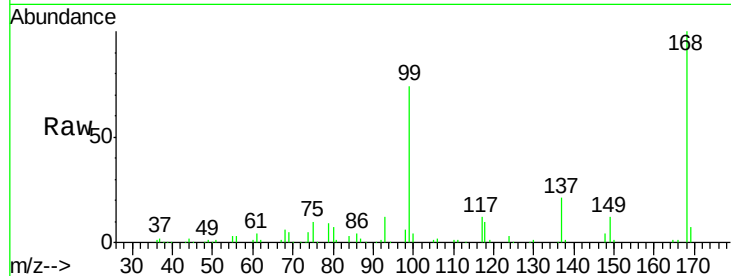
Tot Ion:117 Resp: 23086

Ion Ratio Lower Upper

117 100

119 5.1 77.8 116.6#

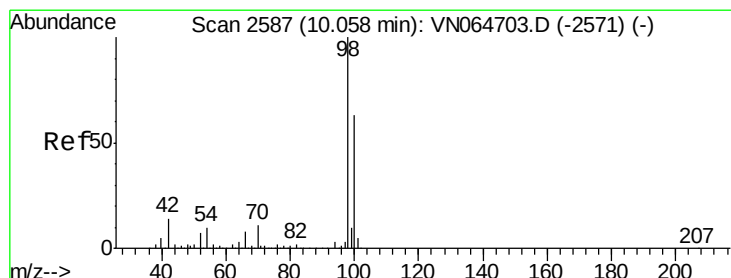
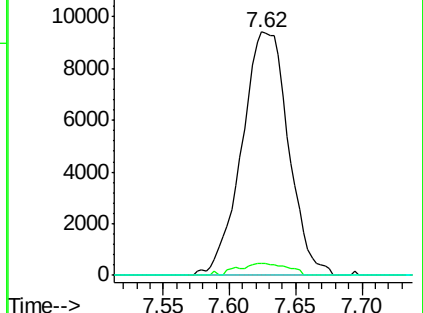
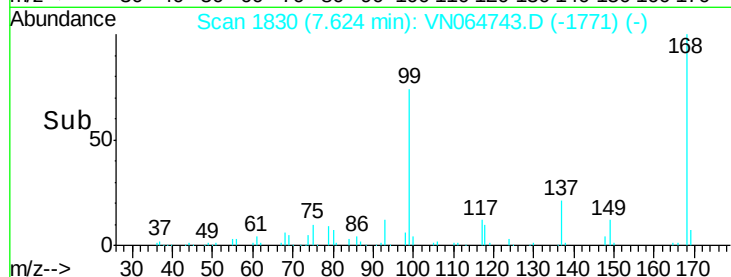
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 50.254 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064743.D

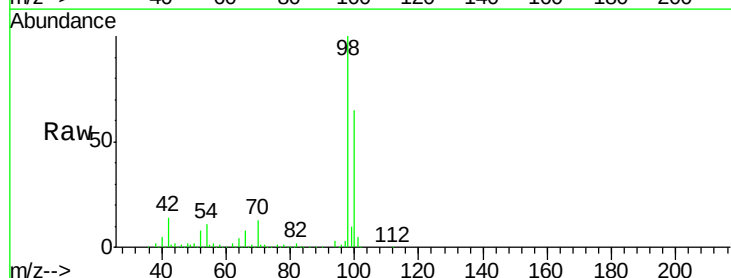
Acq: 19 Nov 2020 19:14

Tgt Ion: 98 Resp: 523872

Ion Ratio Lower Upper

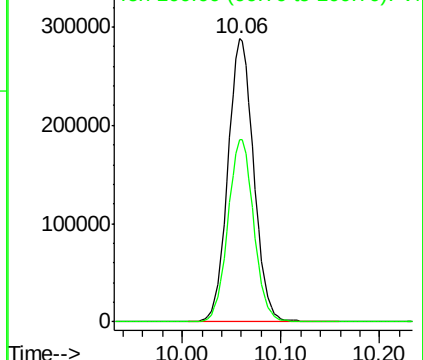
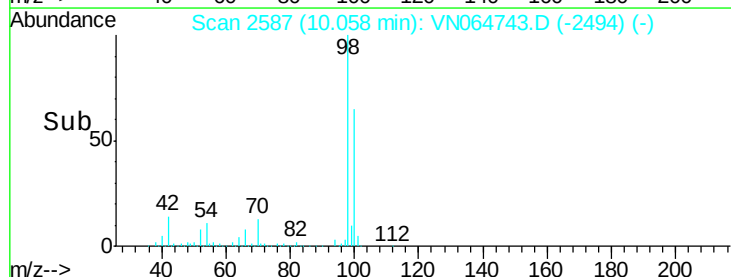
98 100

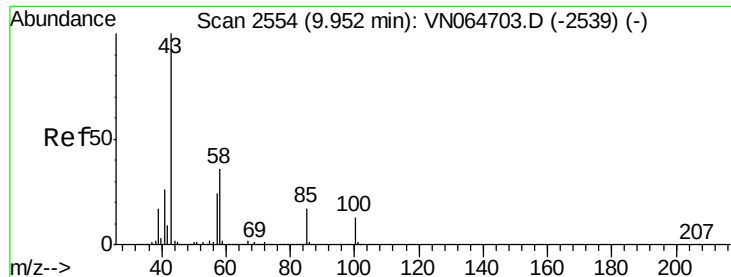
100 64.3 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 6.367 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064743.D

Acq: 19 Nov 2020 19:14

Instrument :

MSVOA_N

ClientSampleId :

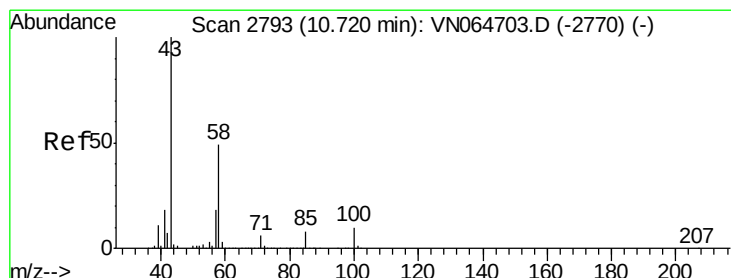
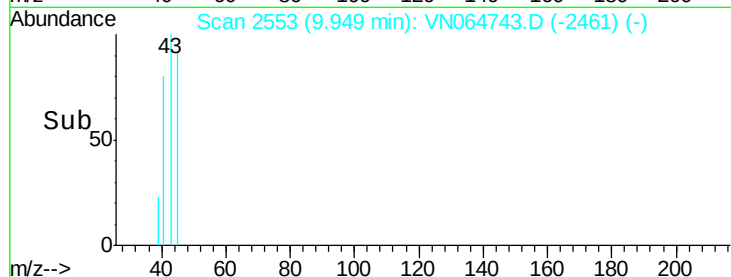
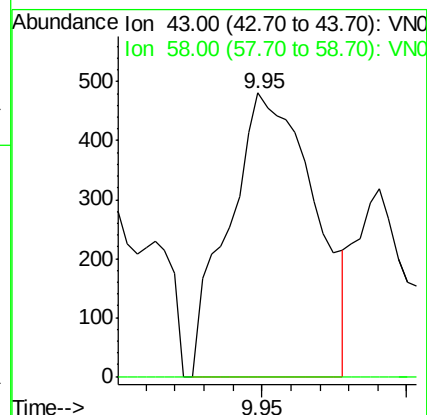
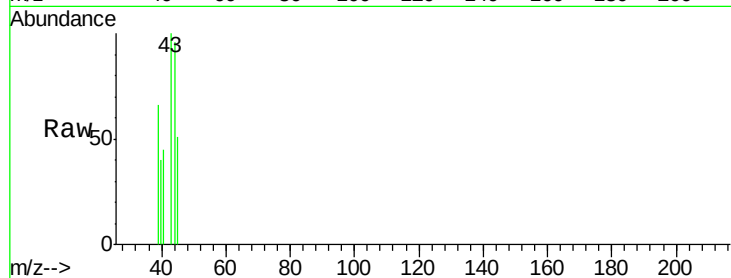
MW-10D

Tot Ion: 43 Resp: 988

Ion Ratio Lower Upper

43 100

58 0.0 28.5 42.7#



#59

2-Hexanone

Concen: 8.608 ug/l

RT: 10.72 min Scan# 2794

Delta R.T. 0.00 min

Lab File: VN064743.D

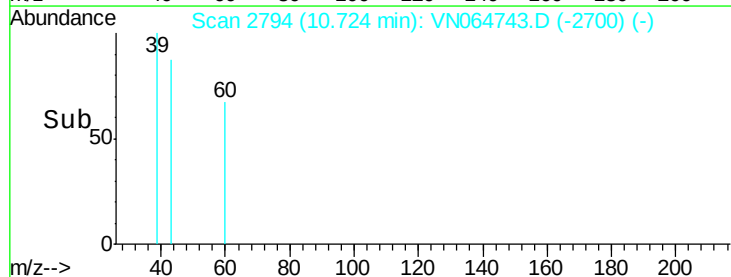
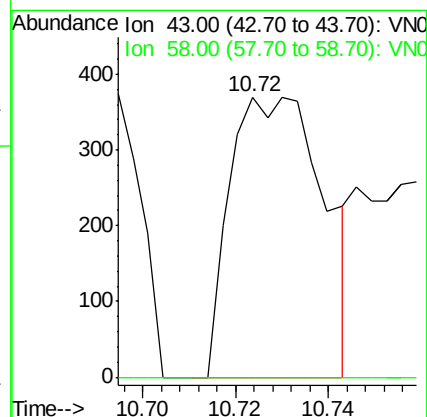
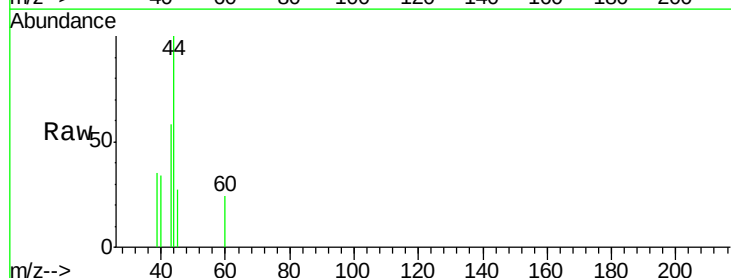
Acq: 19 Nov 2020 19:14

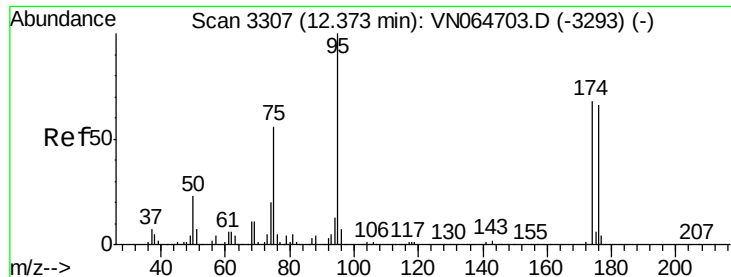
Tgt Ion: 43 Resp: 520

Ion Ratio Lower Upper

43 100

58 0.0 24.4 73.4#

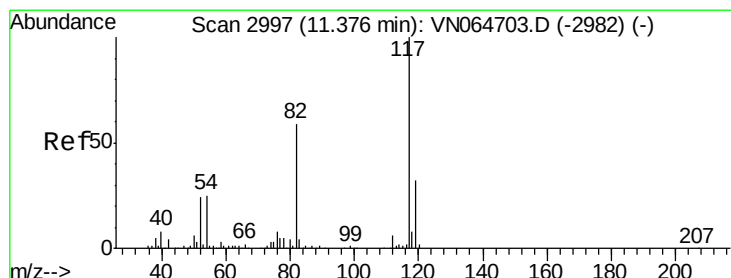
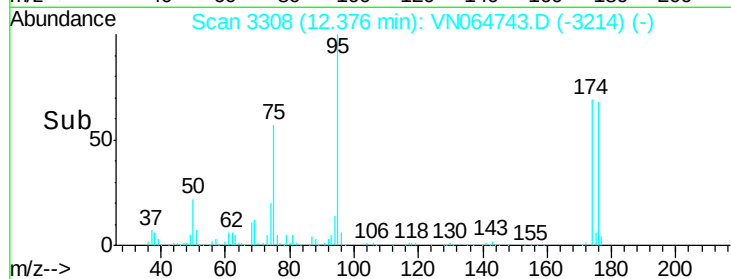
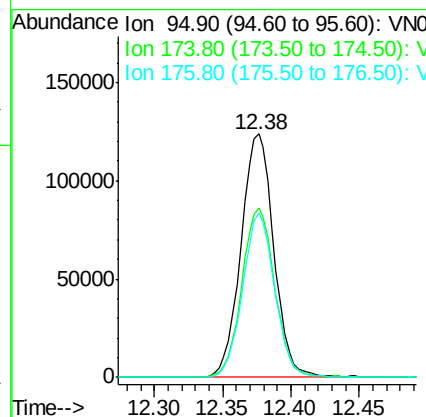
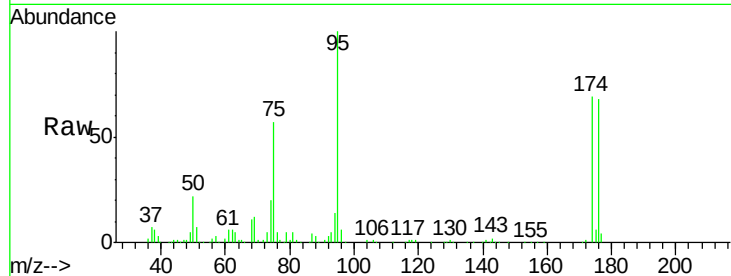




#62
4-Bromofluorobenzene
Concen: 52.926 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064743.D
Acq: 19 Nov 2020 19:14

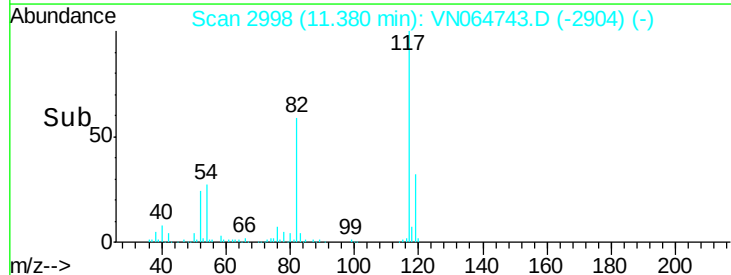
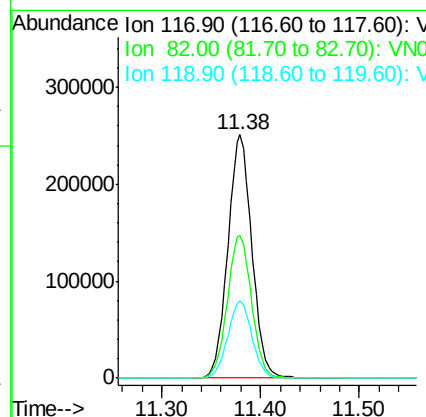
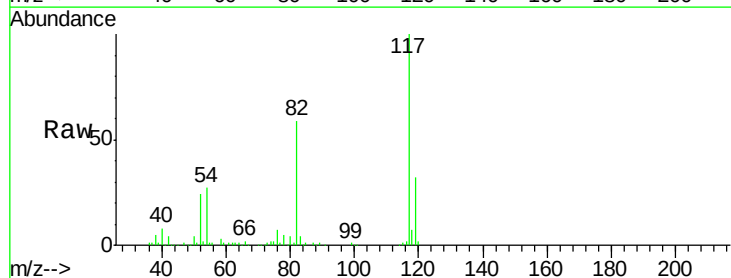
Instrument :
MSVOA_N
ClientSampleId :
MW-10D

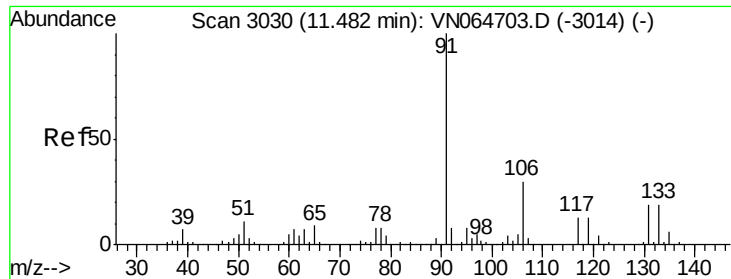
Tot Ion	Ratio	Lower	Upper
95	100		
174	69.6	0.0	136.8
176	65.9	0.0	134.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064743.D
Acq: 19 Nov 2020 19:14

Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.8	47.0	70.6
119	31.6	25.4	38.2

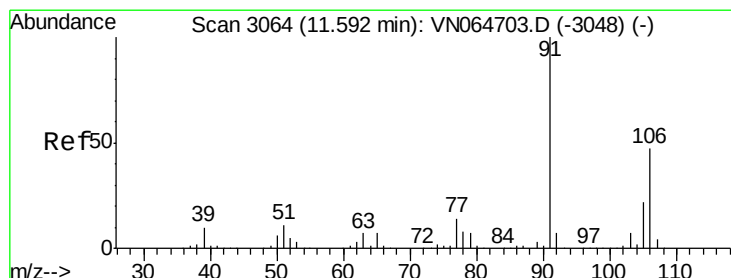
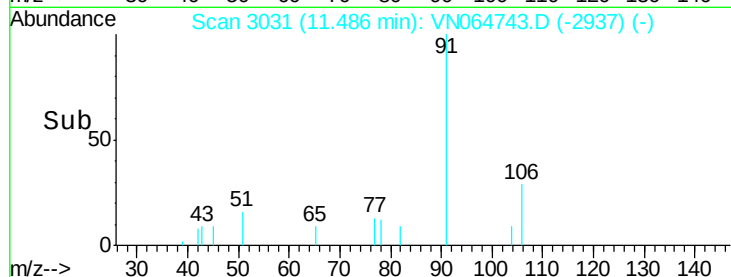
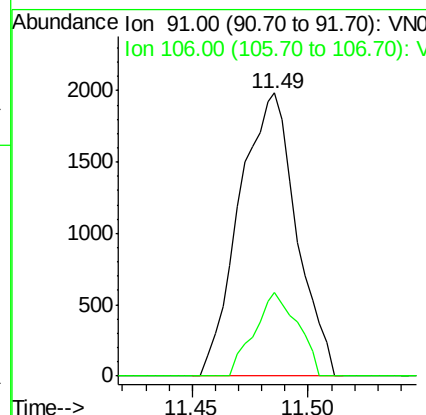
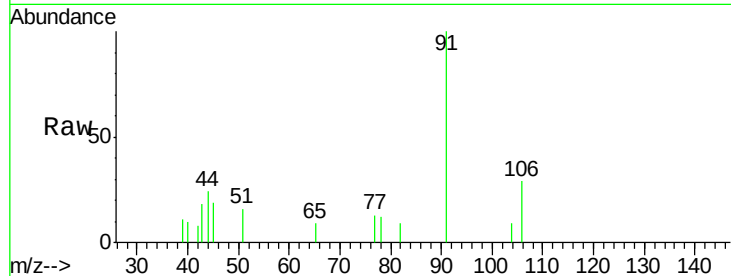




#67
Ethyl Benzene
Concen: 0.211 ug/l
RT: 11.49 min Scan# 3031
Delta R.T. 0.00 min
Lab File: VN064743.D
Acq: 19 Nov 2020 19:14

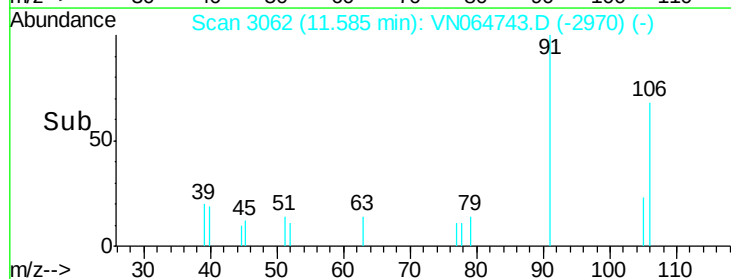
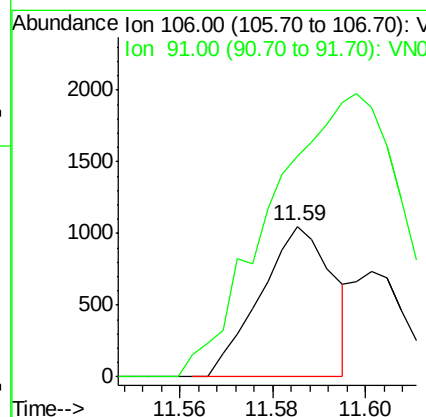
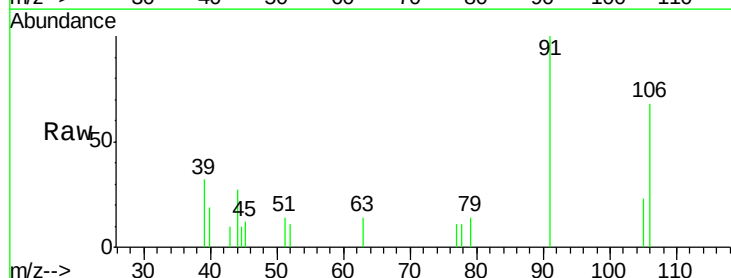
Instrument :
MSVOA_N
ClientSampled :
MW-10D

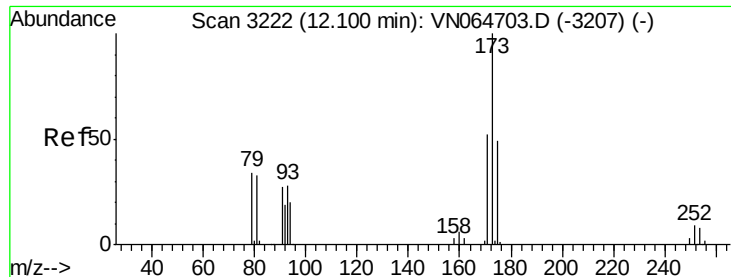
Tot Ion: 91 Resp: 3388
Ion Ratio Lower Upper
91 100
106 29.5 23.9 35.9



#68
m/p-Xylenes
Concen: 4.229 ug/l
RT: 11.59 min Scan# 3062
Delta R.T. -0.01 min
Lab File: VN064743.D
Acq: 19 Nov 2020 19:14

Tgt Ion: 106 Resp: 1139
Ion Ratio Lower Upper
106 100
91 339.0 171.9 257.9#





#71

Bromoform

Concen: 2.483 ug/l

RT: 12.35 min Scan# 3301

Delta R.T. 0.25 min

Lab File: VN064743.D

Acq: 19 Nov 2020 19:14

Instrument :

MSVOA_N

ClientSampleId :

MW-10D

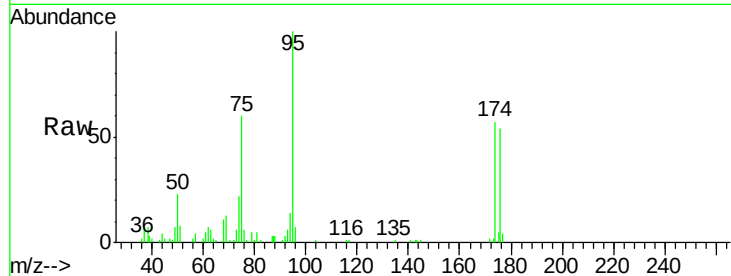
Tot Ion:173 Resp: 100

Ion Ratio Lower Upper

173 100

175 0.0 24.3 72.9#

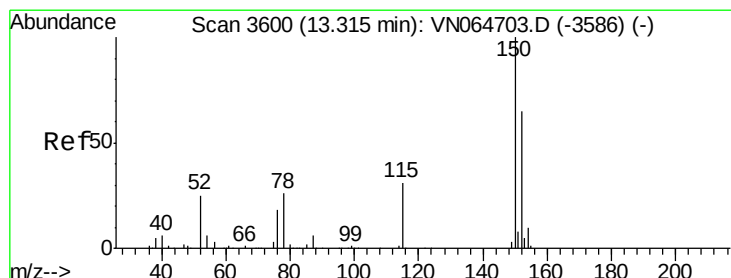
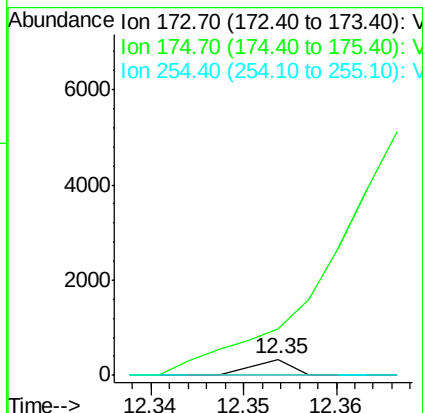
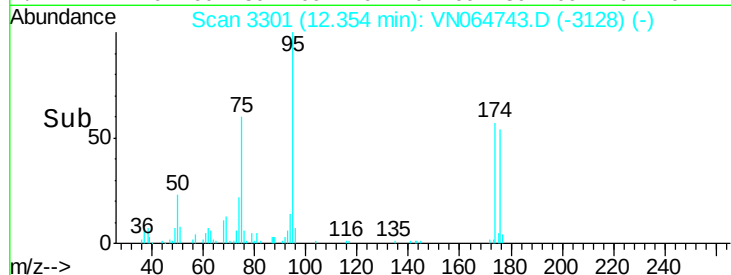
254 0.0 0.1 0.1#



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: VN064743.D

Acq: 19 Nov 2020 19:14

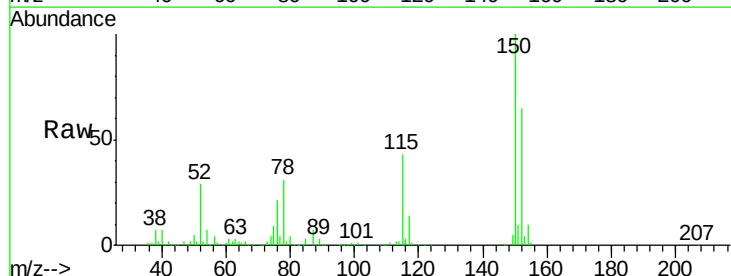
Tgt Ion:152 Resp: 177111

Ion Ratio Lower Upper

152 100

115 66.7 32.1 96.3

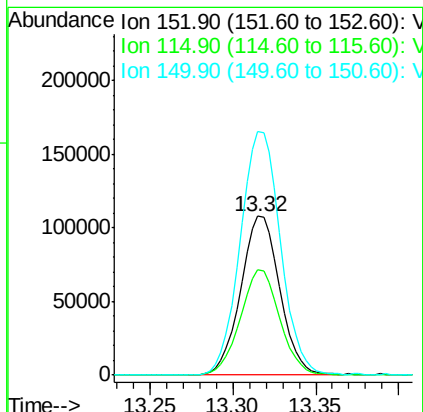
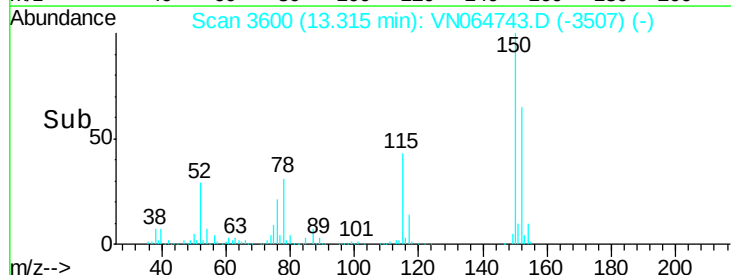
150 157.6 0.0 344.8

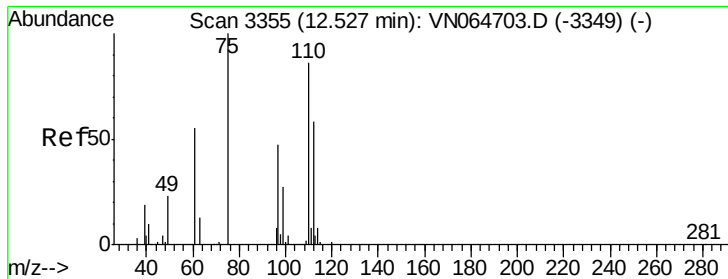


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 30.974 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064743.D

Acq: 19 Nov 2020 19:14

Instrument :

MSVOA_N

ClientSampleId :

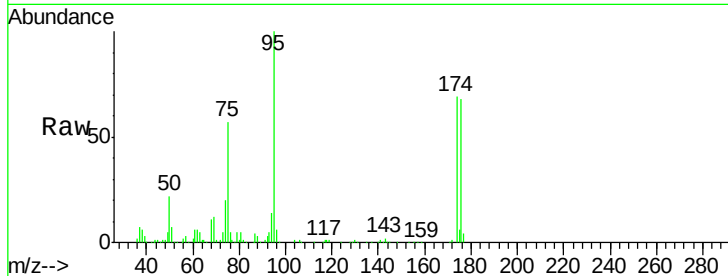
MW-10D

Tot Ion: 75 Resp: 118201

Ion Ratio Lower Upper

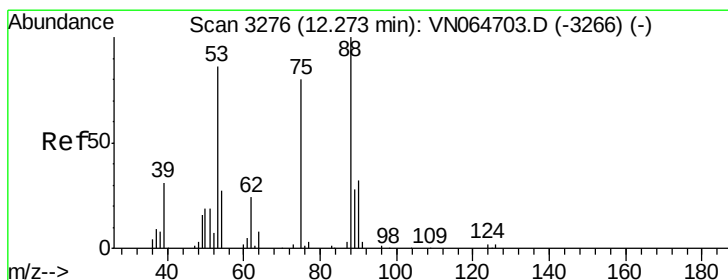
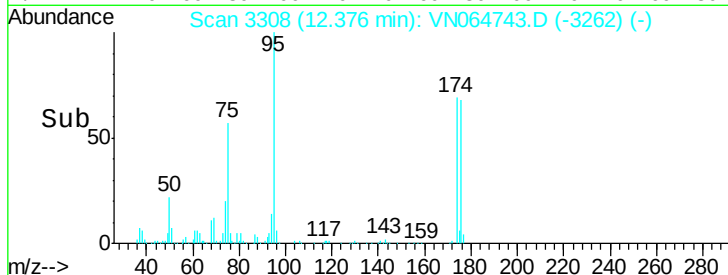
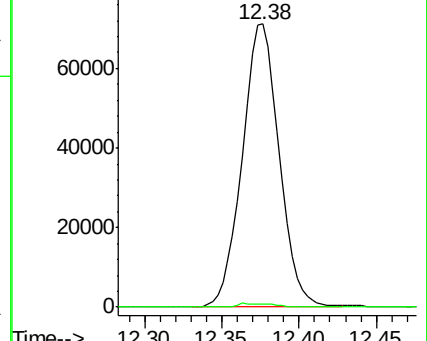
75 100

77 0.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 78.909 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064743.D

Acq: 19 Nov 2020 19:14

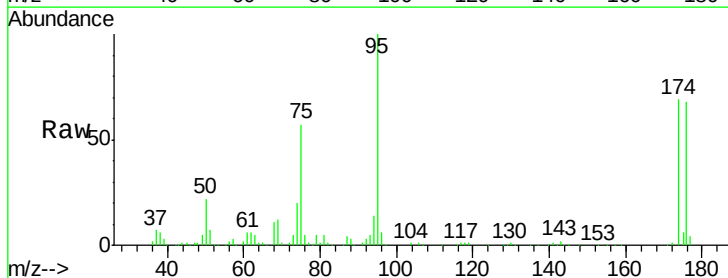
Tgt Ion: 75 Resp: 118201

Ion Ratio Lower Upper

75 100

53 0.1 88.8 133.2#

89 0.1 43.1 64.7#



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

