

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111720\
 Data File : VN064676.D
 Acq On : 17 Nov 2020 13:30
 Operator : JC/MD
 Sample : L4772-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-111620

Quant Time: Nov 18 01:37:53 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	7.62	168	219350	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	435865	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	454823	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	159781	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	214366	56.11	ug/l	0.00
Spiked Amount			Recovery	=	112.22%	
35) Dibromofluoromethane	7.55	113	158212	53.31	ug/l	0.00
Spiked Amount			Recovery	=	106.62%	
50) Toluene-d8	10.06	98	579517	50.52	ug/l	0.00
Spiked Amount			Recovery	=	101.04%	
62) 4-Bromofluorobenzene	12.37	95	205929	47.47	ug/l	0.00
Spiked Amount			Recovery	=	94.94%	

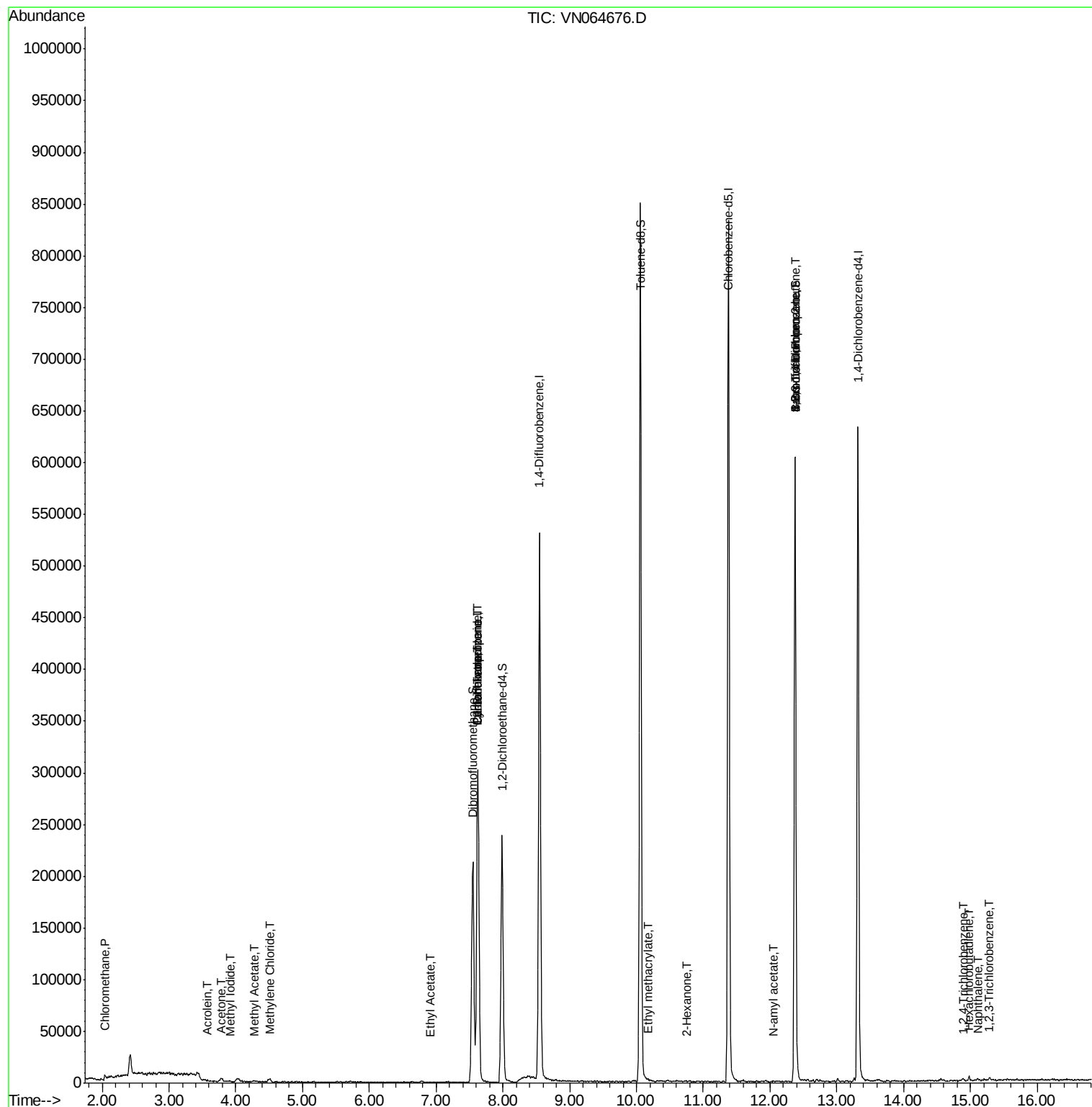
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2980	0.859	ug/l	97
10) Methyl Iodide	3.92	142	795	0.275	ug/l #	44
13) Acrolein	3.58	56	363	1.389	ug/l #	81
16) Acetone	3.78	43	6020	4.136	ug/l	95
18) Methyl Acetate	4.28	43	583	0.204	ug/l #	55
20) Methylene Chloride	4.51	84	2149	0.744	ug/l #	75
31) Cyclohexane	7.62	56	6920	1.490	ug/l #	42
36) 1,1-Dichloropropene	7.62	75	20734	4.503	ug/l #	53
37) Ethyl Acetate	6.90	43	30	0.769	ug/l #	71
38) Carbon Tetrachloride	7.62	117	25138	5.108	ug/l #	17
56) Ethyl methacrylate	10.17	69	66	1.853	ug/l #	1
59) 2-Hexanone	10.74	43	221	4.089	ug/l	95
71) Bromoform	12.37	173	1285	1.723	ug/l #	1
74) N-amyl acetate	12.05	43	192	1.245	ug/l #	72
76) 1,2,3-Trichloropropane	12.37	75	117402	30.326	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	117402	84.673	ug/l #	8
93) 1,2,4-Trichlorobenzene	14.88	180	833	2.972	ug/l #	57
94) Hexachlorobutadiene	14.98	225	737	0.702	ug/l	86
95) Naphthalene	15.11	128	2132	3.849	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.29	180	867	3.105	ug/l	92

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

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064676.D

Acq: 17 Nov 2020 13:30

Instrument :

MSVOA_N

ClientSampled :

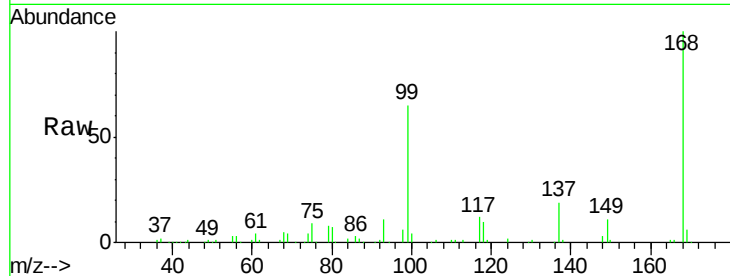
TB-111620

Tot Ion:168 Resp: 219350

Ion Ratio Lower Upper

168 100

99 64.8 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.62

100000

80000

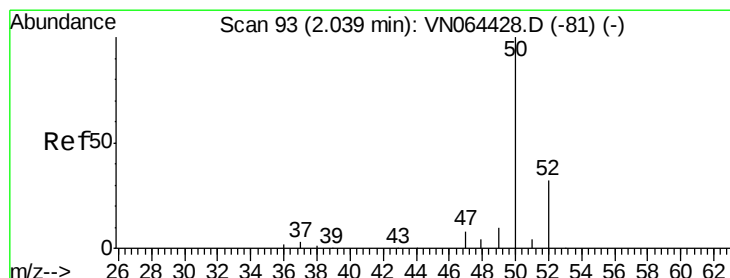
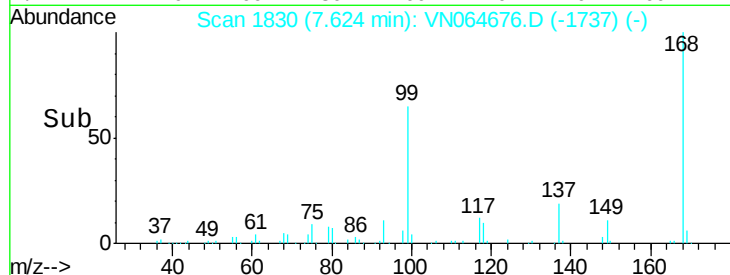
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.859 ug/l

RT: 2.04 min Scan# 93

Delta R.T. -0.00 min

Lab File: VN064676.D

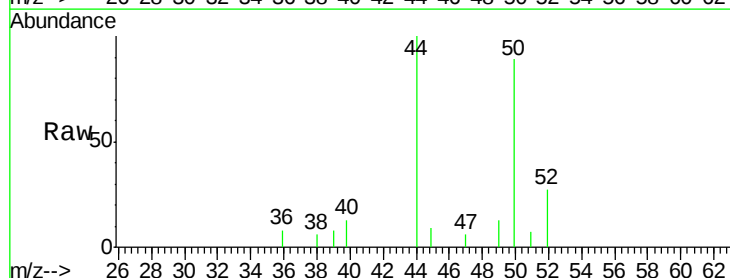
Acq: 17 Nov 2020 13:30

Tgt Ion: 50 Resp: 2980

Ion Ratio Lower Upper

50 100

52 30.2 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

2500

2000

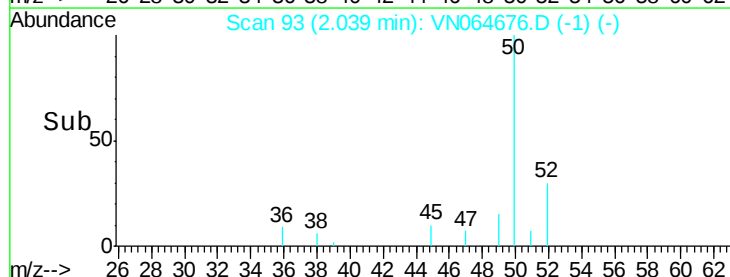
1500

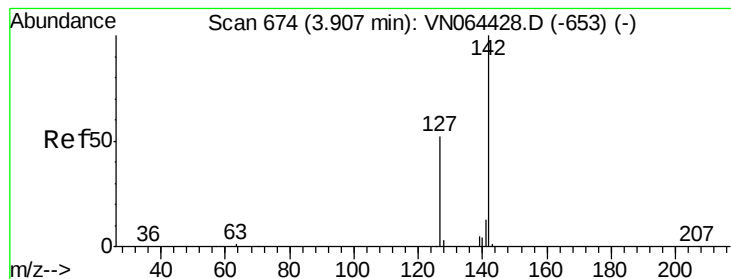
1000

500

0

Time-->





#10

Methvl Iodide

Concen: 0.275 ug/l

RT: 3.92 min Scan# 678

Delta R.T. 0.01 min

Lab File: VN064676.D

Acq: 17 Nov 2020 13:30

Instrument :

MSVOA_N

ClientSampled :

TB-111620

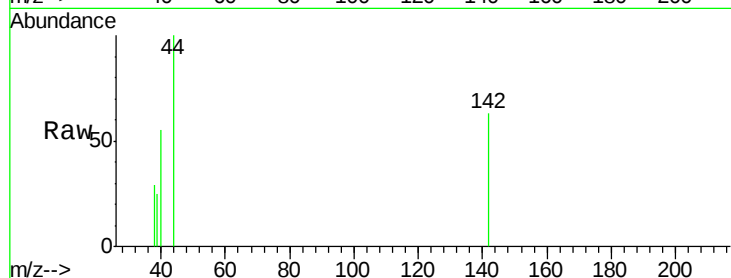
Tot Ion:142 Resp: 795

Ion Ratio Lower Upper

142 100

127 8.4 41.8 62.8#

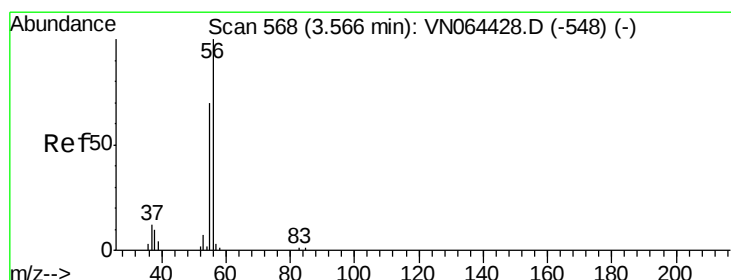
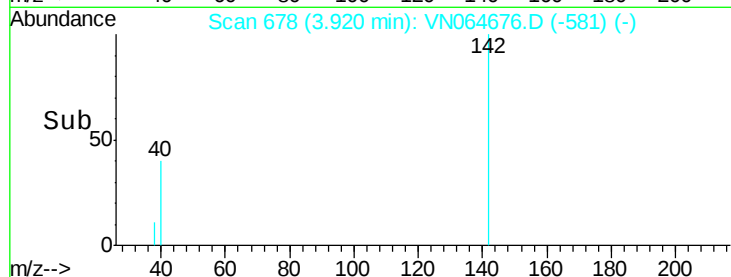
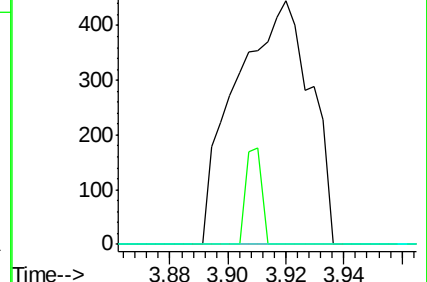
141 0.0 11.4 17.2#



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



#13

Acrolein

Concen: 1.389 ug/l

RT: 3.58 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN064676.D

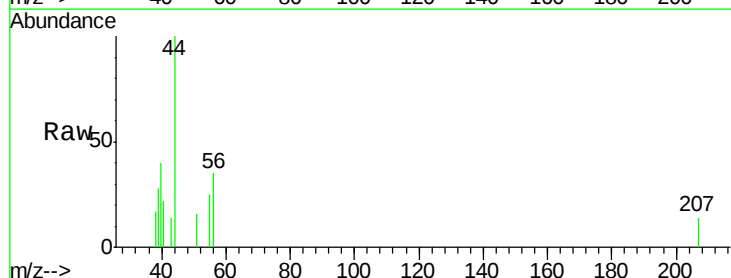
Acq: 17 Nov 2020 13:30

Tgt Ion: 56 Resp: 363

Ion Ratio Lower Upper

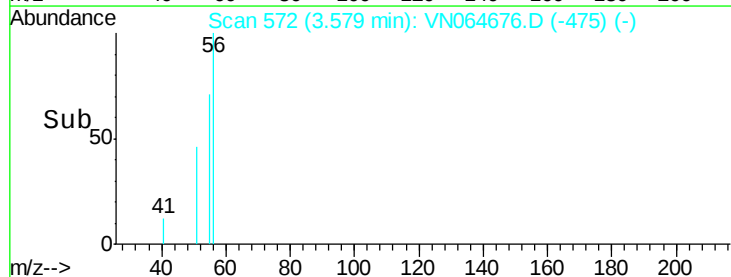
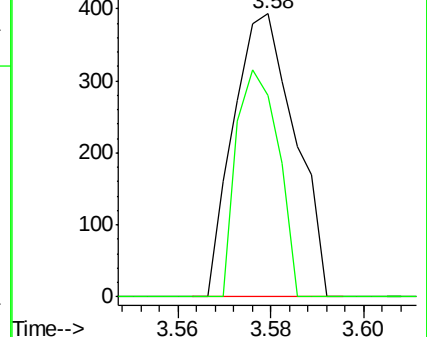
56 100

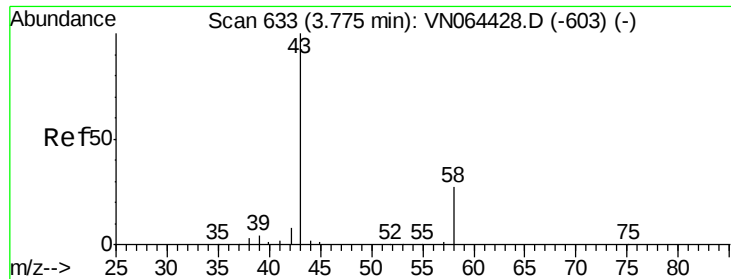
55 54.5 55.9 83.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 4.136 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064676.D

Acq: 17 Nov 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

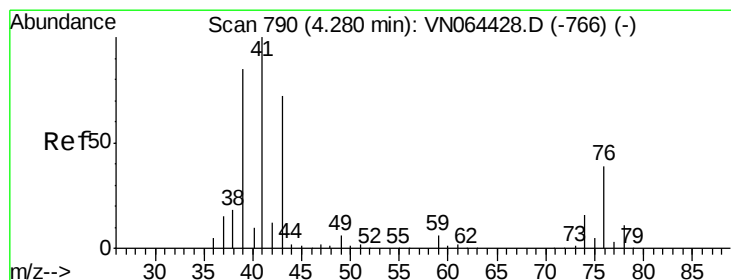
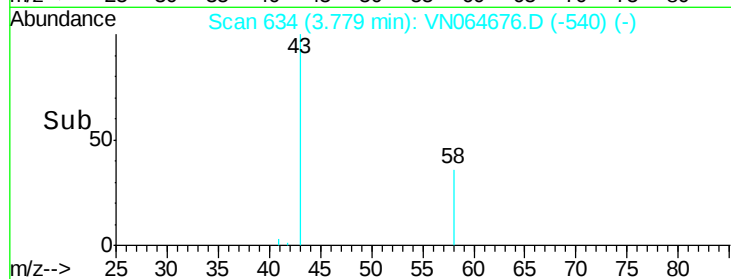
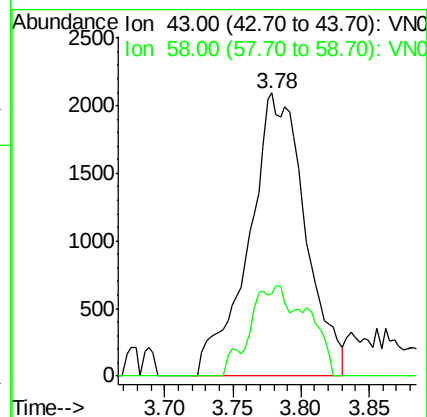
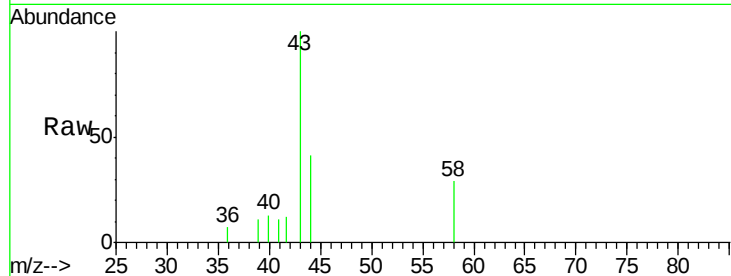
TB-111620

Tot Ion: 43 Resp: 6020

Ion Ratio Lower Upper

43 100

58 29.2 21.4 32.0



#18

Methyl Acetate

Concen: 0.204 ug/l

RT: 4.28 min Scan# 791

Delta R.T. 0.00 min

Lab File: VN064676.D

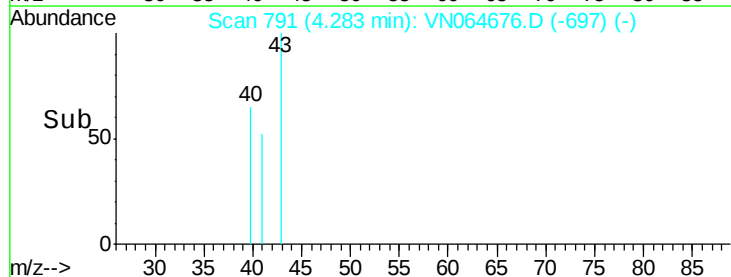
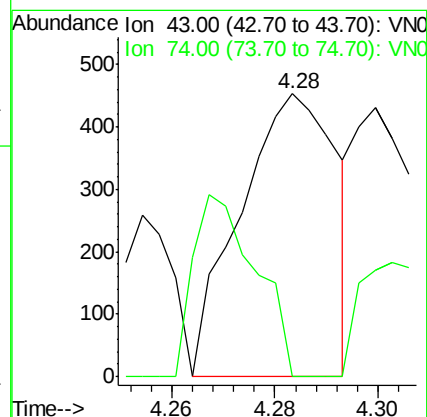
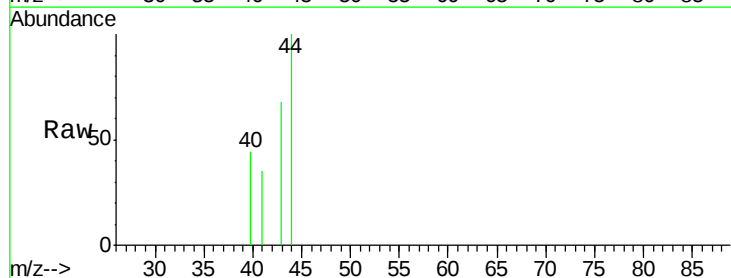
Acq: 17 Nov 2020 13:30

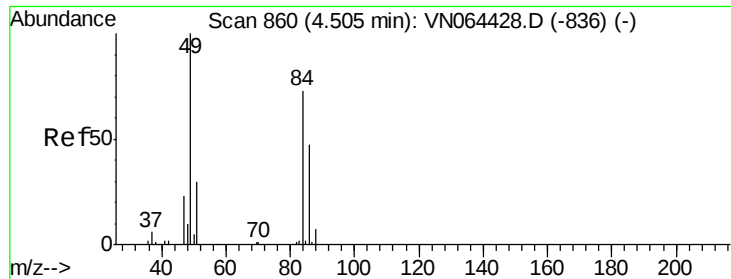
Tgt Ion: 43 Resp: 583

Ion Ratio Lower Upper

43 100

74 0.0 17.0 25.4#

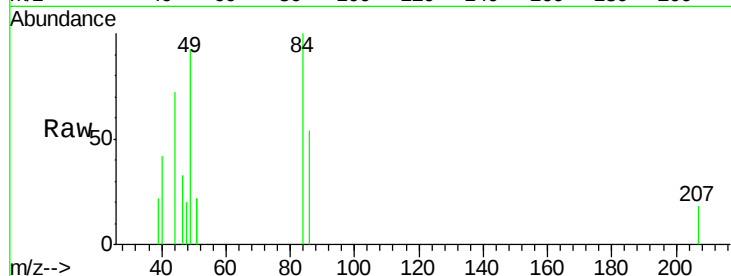




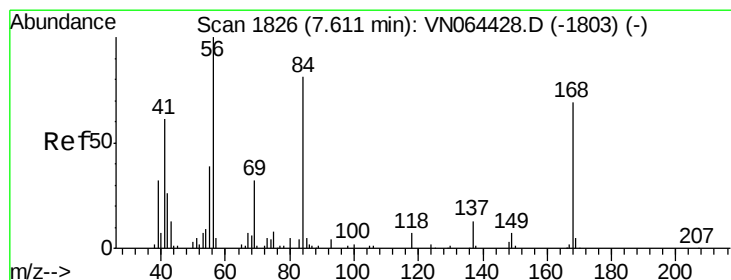
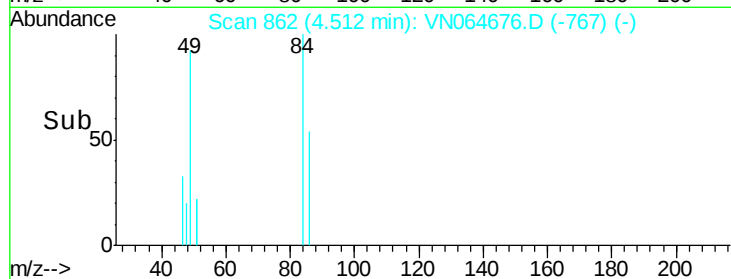
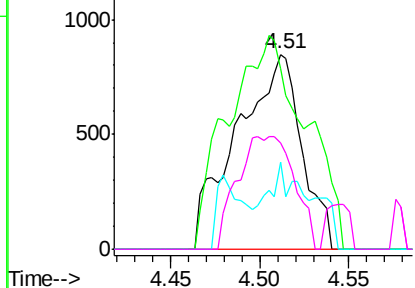
#20
Methvlene Chloride
Concen: 0.744 ug/l
RT: 4.51 min Scan# 862
Delta R.T. 0.01 min
Lab File: VN064676.D
Acq: 17 Nov 2020 13:30

Instrument :
MSVOA_N
ClientSampled :
TB-111620

Tot Ion:	84	Resp:	2149
Ion	Ratio	Lower	Upper
84	100		
49	92.4	110.1	165.1#
51	44.5	33.6	50.4
86	54.1	52.1	78.1

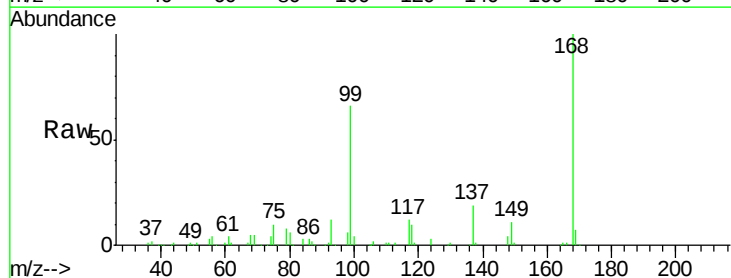


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

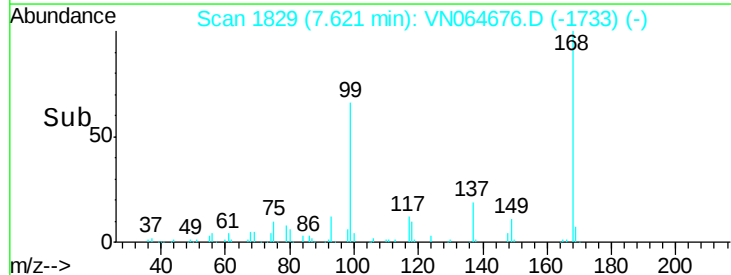
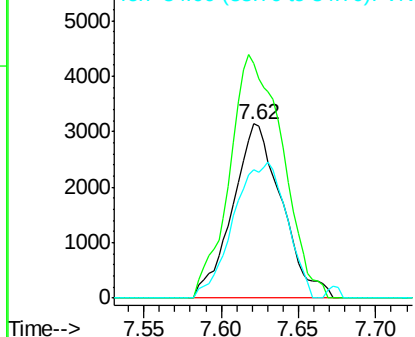


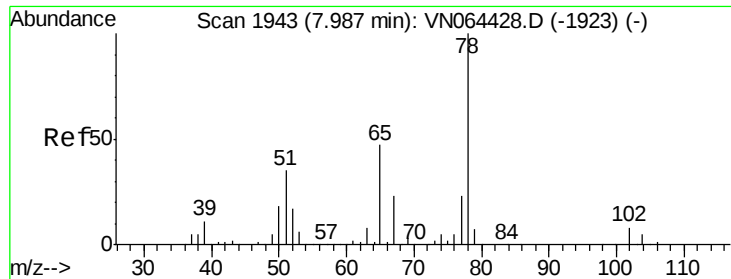
#31
Cyclohexane
Concen: 1.490 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN064676.D
Acq: 17 Nov 2020 13:30

Tgt Ion:	56	Resp:	6920
Ion	Ratio	Lower	Upper
56	100		
69	134.9	25.6	38.4#
84	73.4	63.0	94.6



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

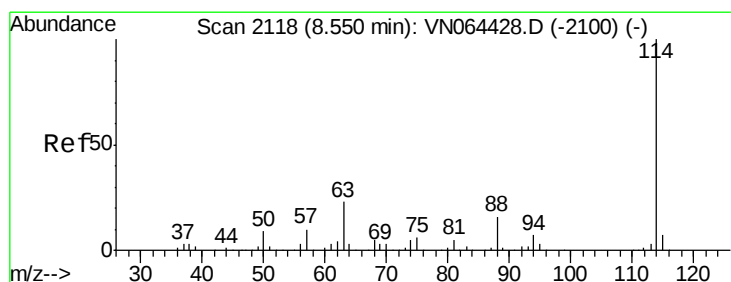
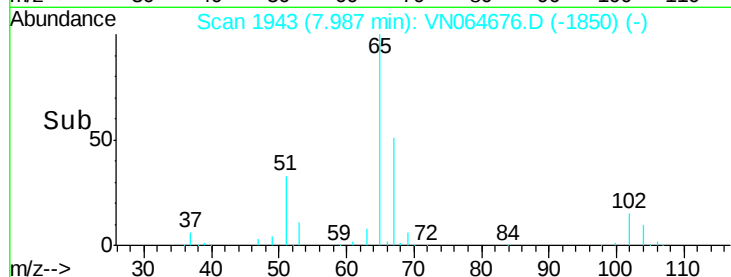
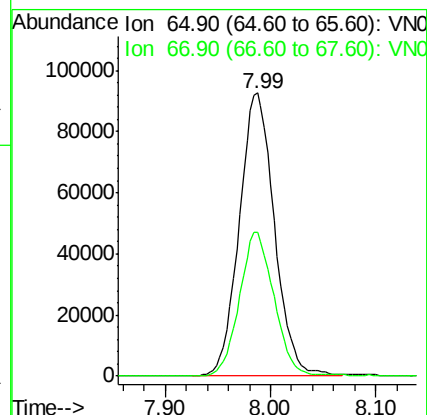
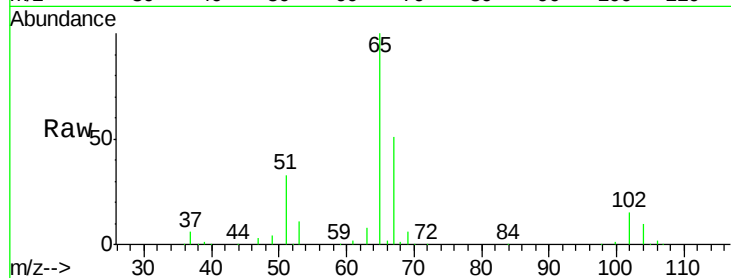




#33
 1,2-Dichloroethane-d4
 Concen: 56.106 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. -0.00 min
 Lab File: VN064676.D
 Acq: 17 Nov 2020 13:30

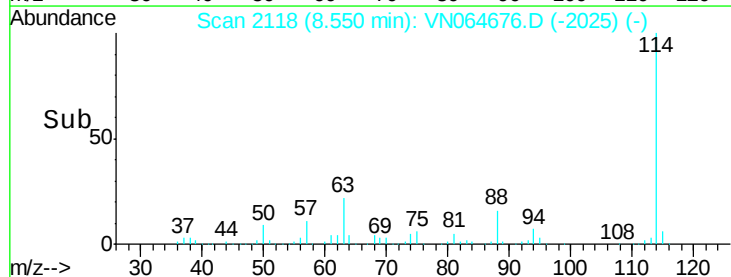
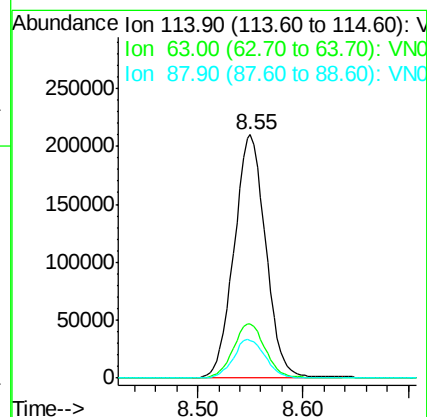
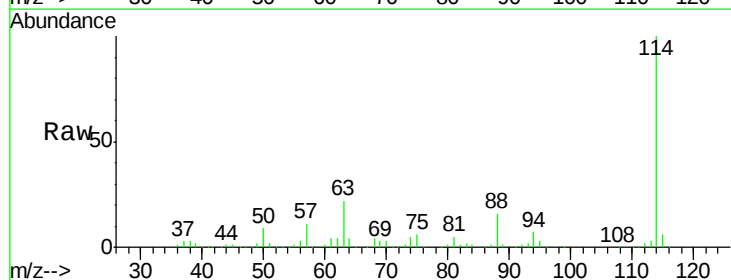
Instrument :
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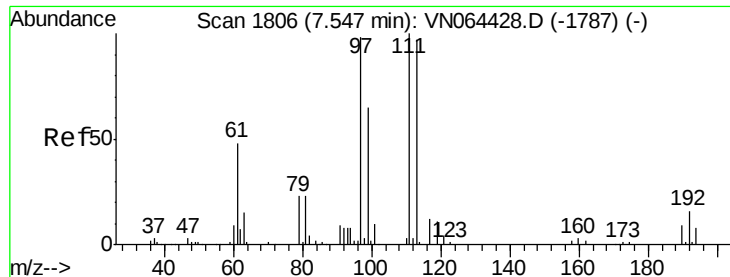
Tot Ion: 65 Resp: 214366
 Ion Ratio Lower Upper
 65 100
 67 49.8 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064676.D
 Acq: 17 Nov 2020 13:30

Tgt Ion: 114 Resp: 435865
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 45.6
 88 15.7 0.0 32.8

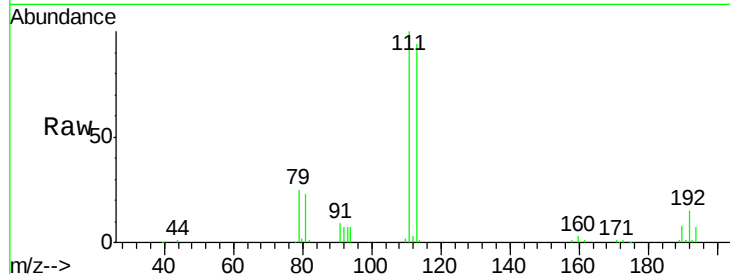




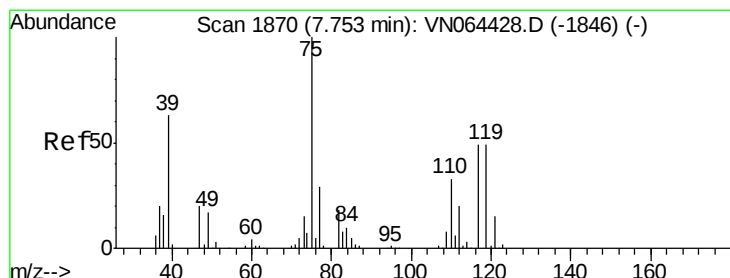
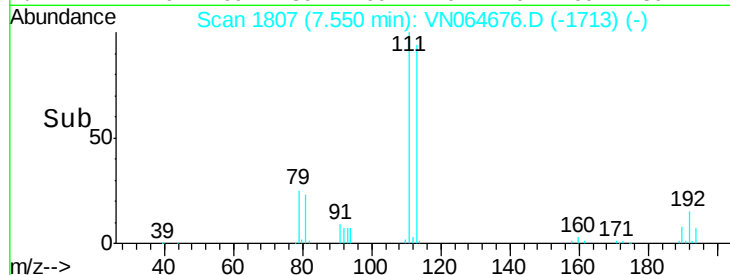
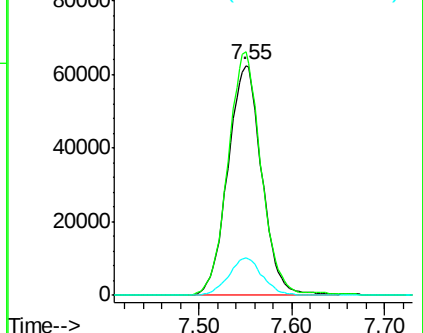
#35
 Dibromofluoromethane
 Concen: 53.312 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064676.D
 Acq: 17 Nov 2020 13:30

Instrument :
 MSVOA_N
 ClientSampleId :
 TB-111620

Tot Ion:113 Resp: 158212
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.1 121.7
 192 16.2 12.8 19.2

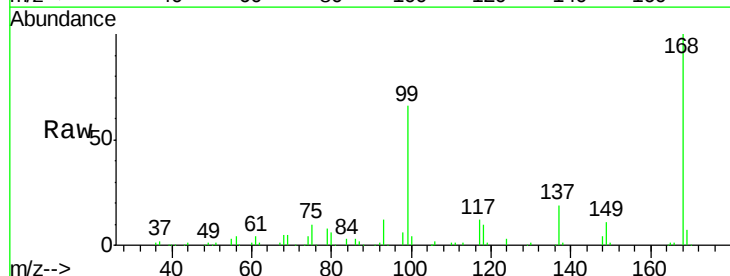


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

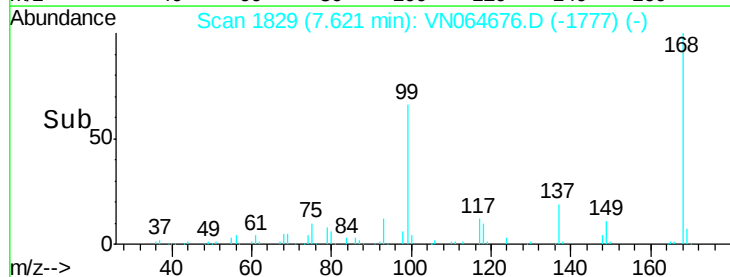
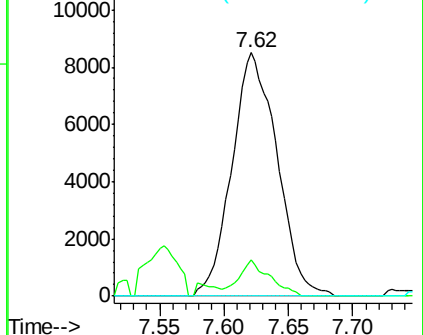


#36
 1,1-Dichloropropene
 Concen: 4.503 ug/l
 RT: 7.62 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN064676.D
 Acq: 17 Nov 2020 13:30

Tgt Ion: 75 Resp: 20734
 Ion Ratio Lower Upper
 75 100
 110 10.1 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

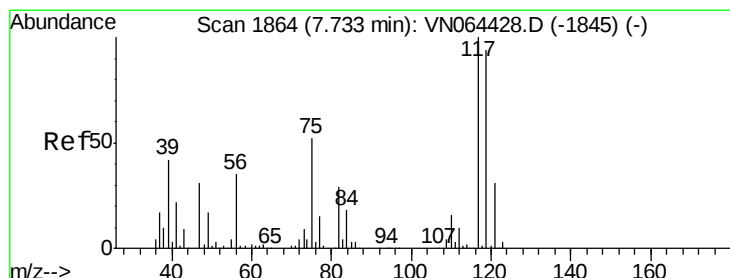
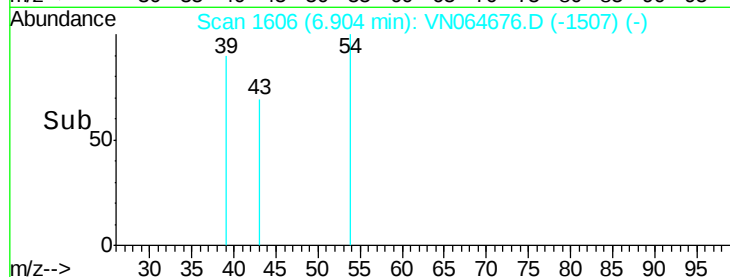
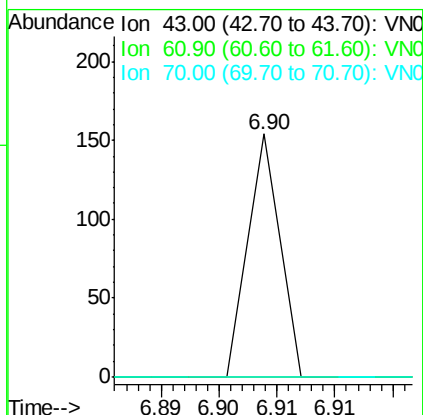
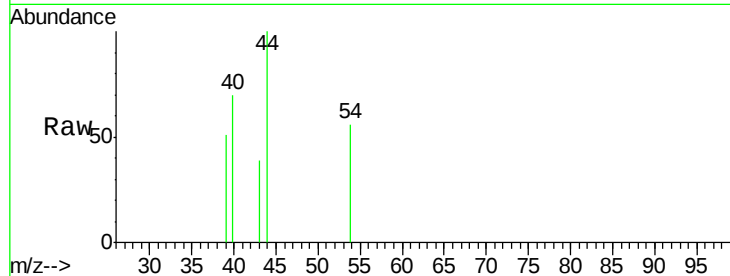




#37
Ethyl Acetate
Concen: 0.769 ug/l
RT: 6.90 min Scan# 1606
Delta R.T. 0.02 min
Lab File: VN064676.D
Acq: 17 Nov 2020 13:30

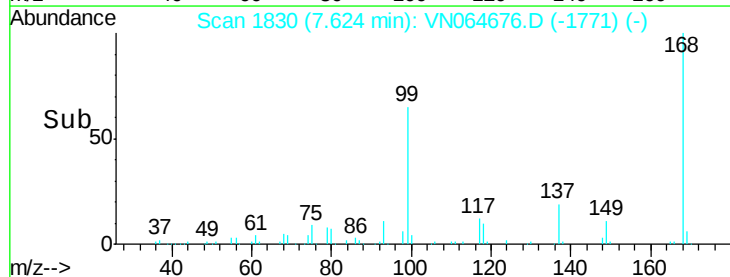
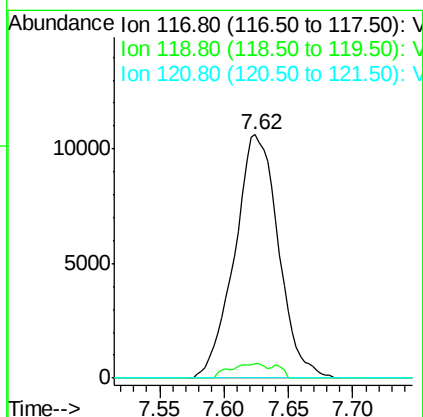
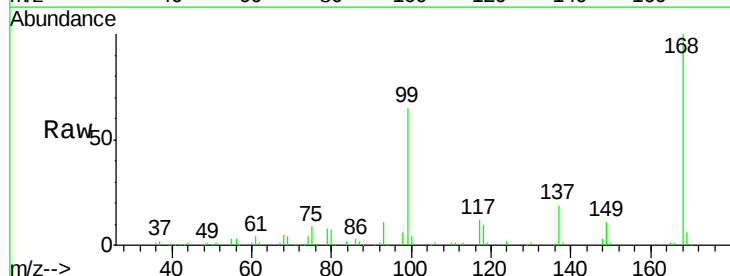
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MSVOA_N
ClientSampleId :
TB-111620

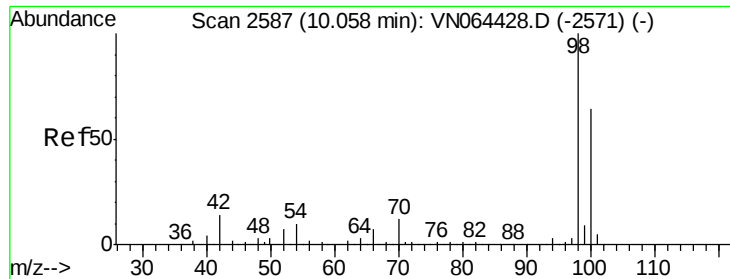
Tot Ion: 43 Resp: 30
Ion Ratio Lower Upper
43 100
61 0.0 10.0 15.0#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 5.108 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.11 min
Lab File: VN064676.D
Acq: 17 Nov 2020 13:30

Tgt Ion: 117 Resp: 25138
Ion Ratio Lower Upper
117 100
119 5.7 75.5 113.3#
121 0.0 24.4 36.6#





#50

Toluene-d8

Concen: 50.525 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN064676.D

Acq: 17 Nov 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

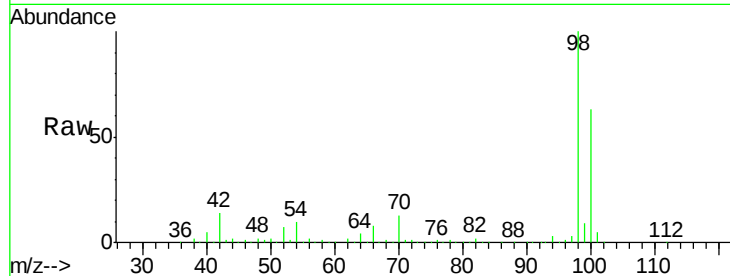
TB-111620

Tot Ion: 98 Resp: 579517

Ion Ratio Lower Upper

98 100

100 61.5 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.06

300000

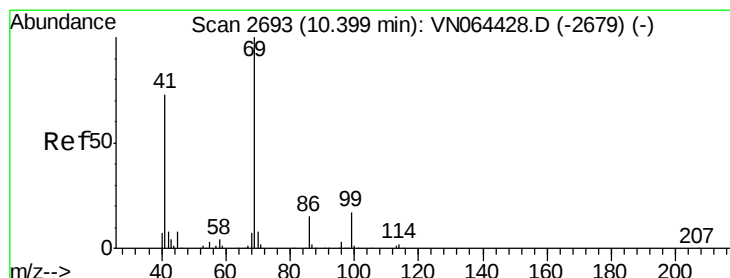
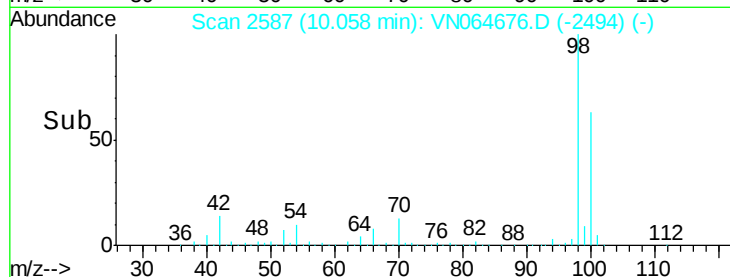
200000

100000

0

Time-->

10.00 10.10



#56

Ethyl methacrylate

Concen: 1.853 ug/l

RT: 10.17 min Scan# 2623

Delta R.T. -0.22 min

Lab File: VN064676.D

Acq: 17 Nov 2020 13:30

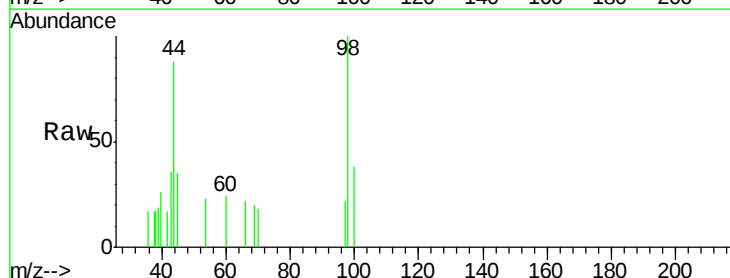
Tgt Ion: 69 Resp: 66

Ion Ratio Lower Upper

69 100

41 0.0 59.3 88.9#

39 228.8 35.4 53.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

250

200

150

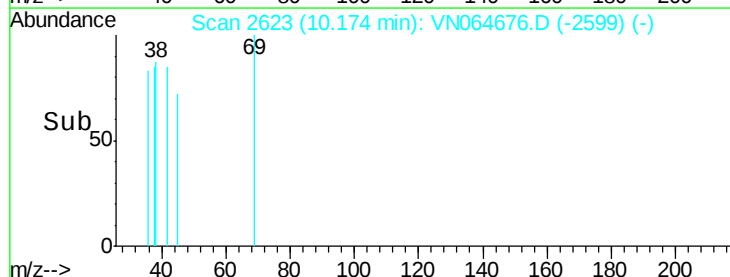
100

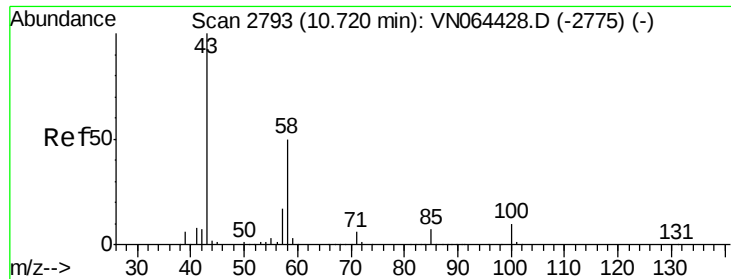
50

0

Time-->

10.16 10.17 10.18

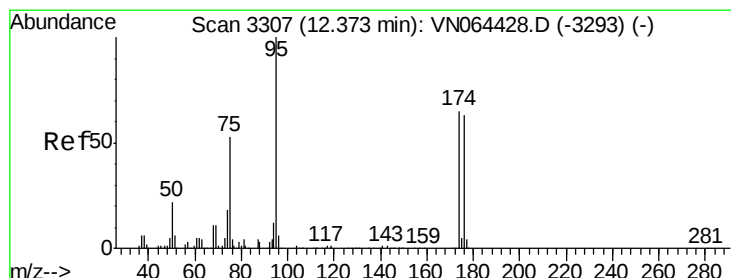
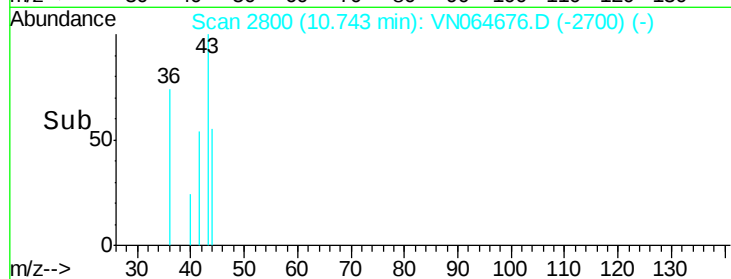
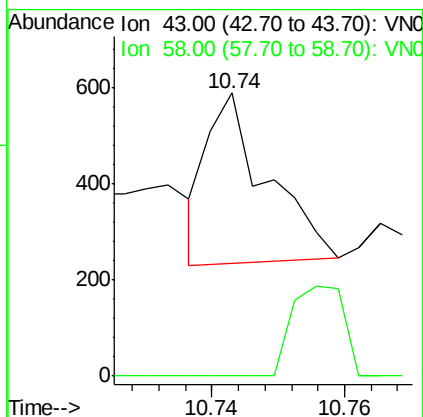
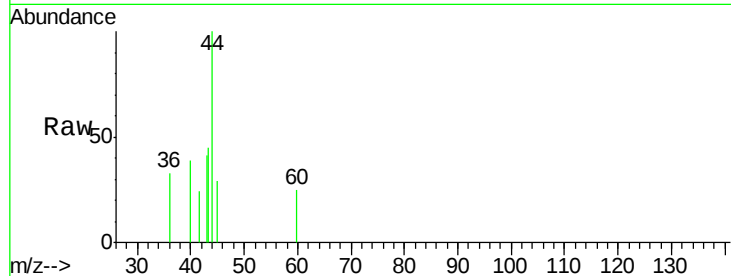




#59
2-Hexanone
Concen: 4.089 ug/l
RT: 10.74 min Scan# 2800
Delta R.T. 0.02 min
Lab File: VN064676.D
Acq: 17 Nov 2020 13:30

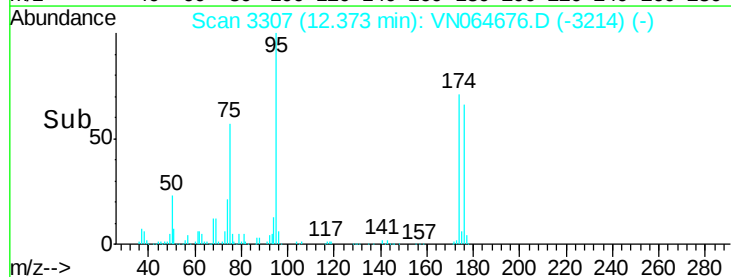
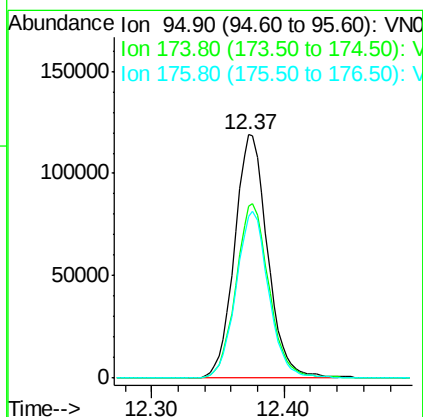
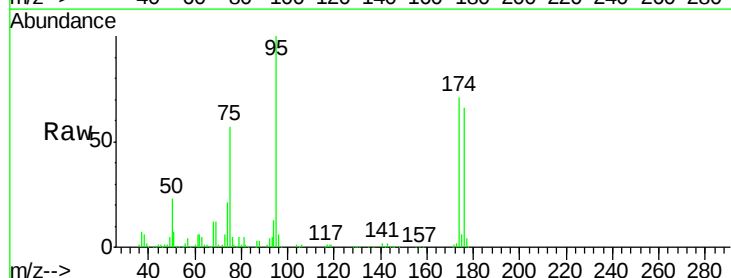
Instrument :
MSVOA_N
ClientSampled :
TB-111620

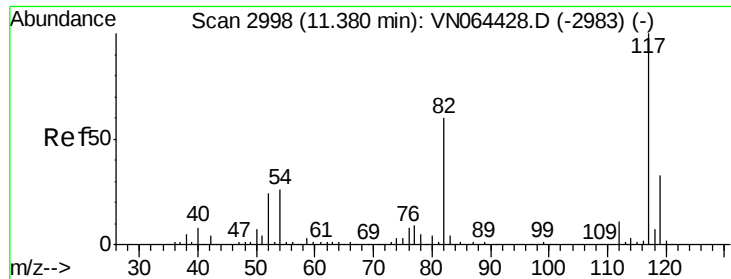
Tot Ion: 43 Resp: 221
Ion Ratio Lower Upper
43 100
58 46.2 24.7 74.1



#62
4-Bromofluorobenzene
Concen: 47.473 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. -0.00 min
Lab File: VN064676.D
Acq: 17 Nov 2020 13:30

Tgt Ion: 95 Resp: 205929
Ion Ratio Lower Upper
95 100
174 71.9 0.0 132.6
176 67.4 0.0 129.2

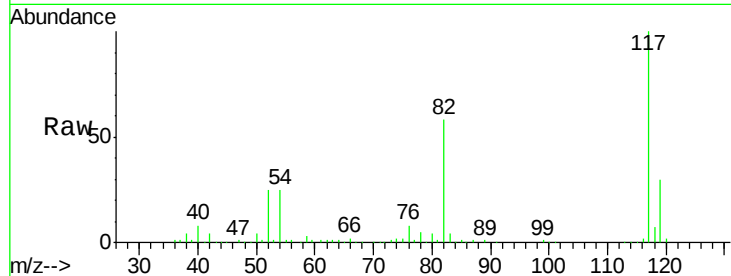




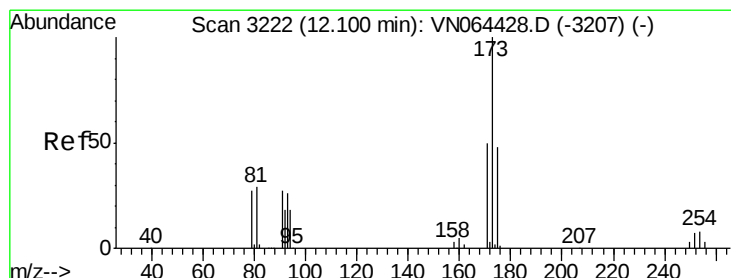
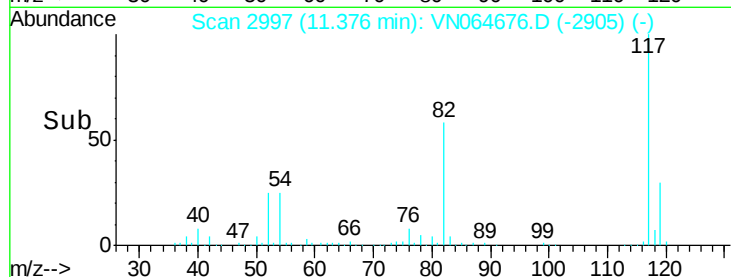
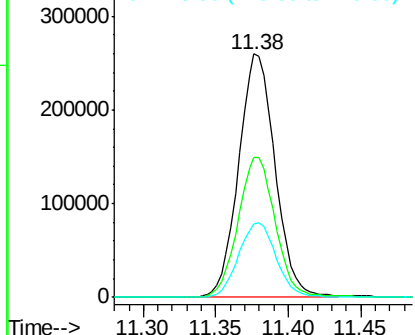
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2997
Delta R.T. -0.00 min
Lab File: VN064676.D
Acq: 17 Nov 2020 13:30

Instrument :
MSVOA_N
ClientSampleId :
TB-111620

Tot Ion:117 Resp: 454823
Ion Ratio Lower Upper
117 100
82 57.7 48.1 72.1
119 30.0 26.2 39.4

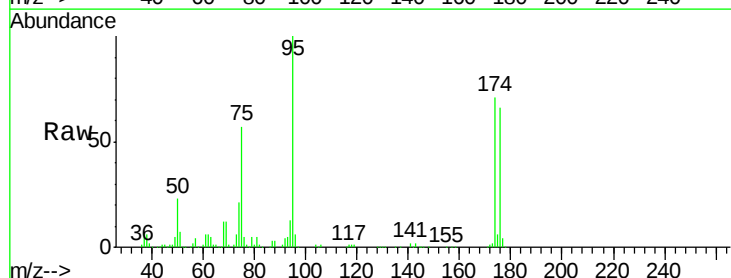


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

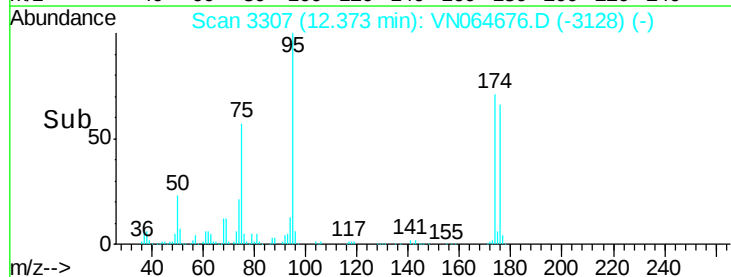
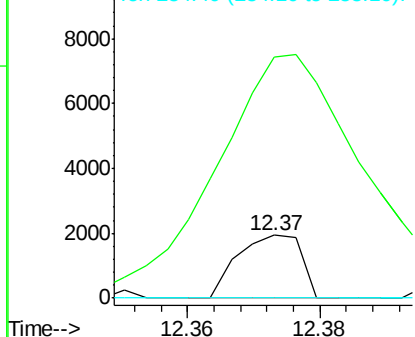


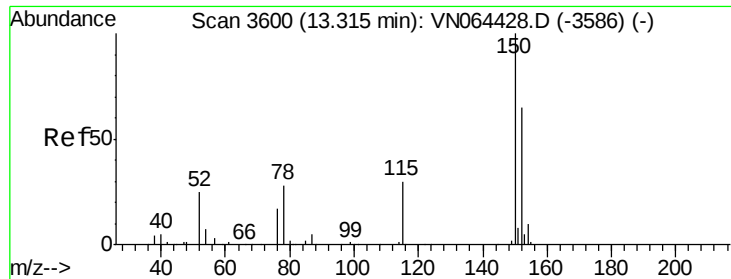
#71
Bromoform
Concen: 1.723 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN064676.D
Acq: 17 Nov 2020 13:30

Tgt Ion:173 Resp: 1285
Ion Ratio Lower Upper
173 100
175 785.7 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# 3601

Delta R.T. 0.00 min

Lab File: VN064676.D

Acq: 17 Nov 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

TB-111620

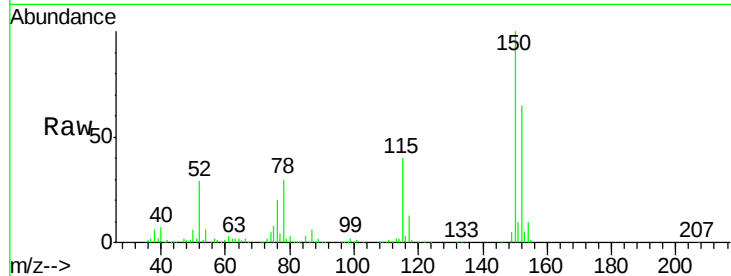
Tot Ion:152 Resp: 159781

Ion Ratio Lower Upper

152 100

115 63.3 32.0 96.0

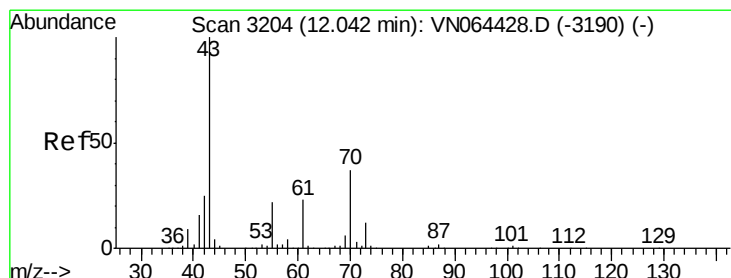
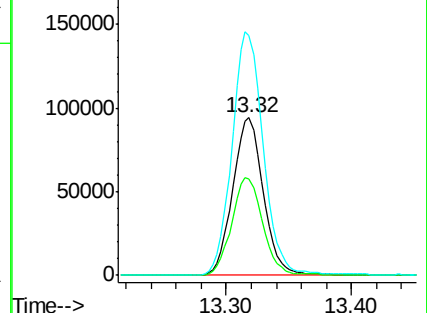
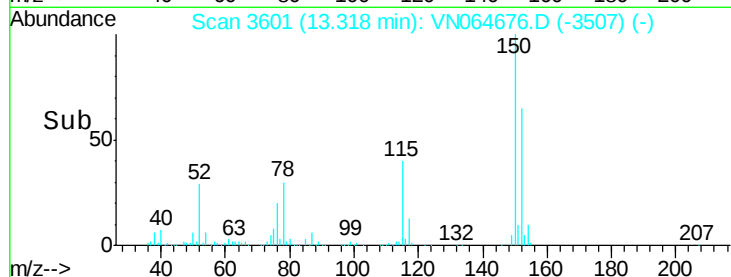
150 157.0 0.0 353.8



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: 1.245 ug/l

RT: 12.05 min Scan# 3205

Delta R.T. 0.00 min

Lab File: VN064676.D

Acq: 17 Nov 2020 13:30

Tgt Ion: 43 Resp: 192

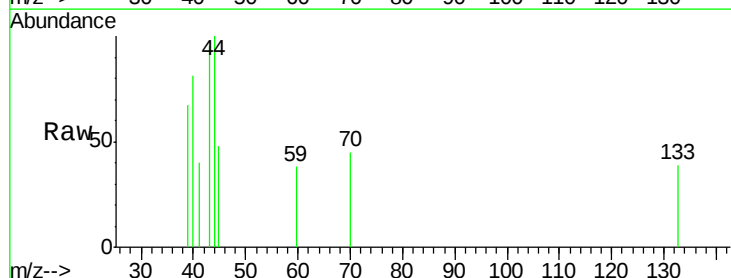
Ion Ratio Lower Upper

43 100

70 33.9 29.6 44.4

55 0.0 18.4 27.6#

61 0.0 17.8 26.6#

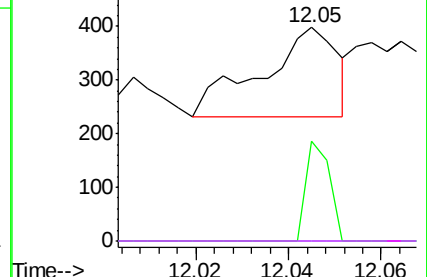
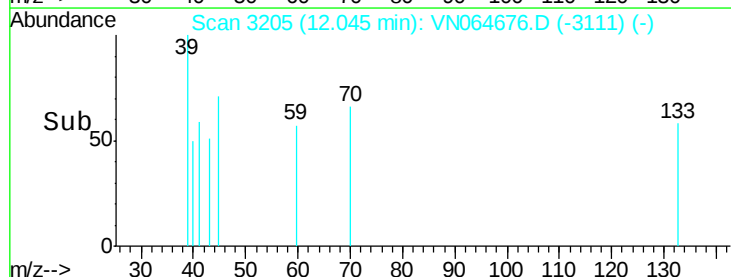


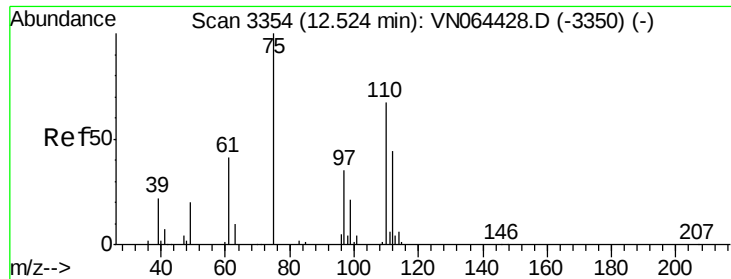
Abundance Ion 43.00 (42.70 to 43.70): V

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: 30.326 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064676.D

Acq: 17 Nov 2020 13:30

Instrument :

MSVOA_N

ClientSampleId :

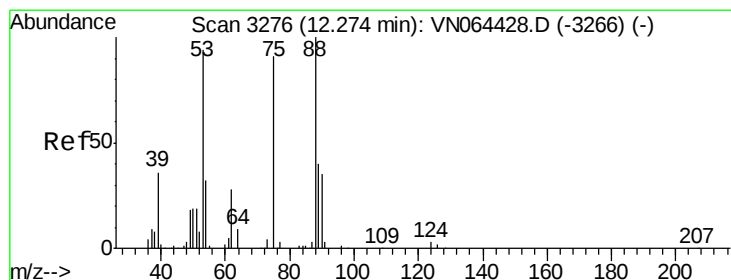
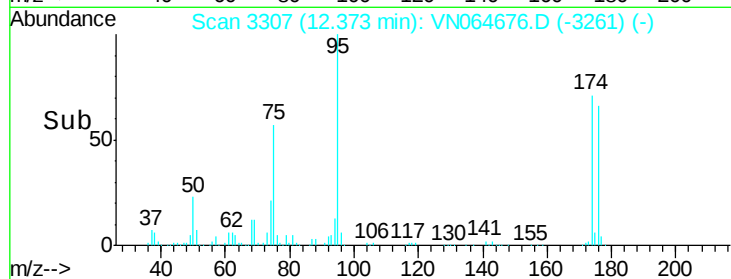
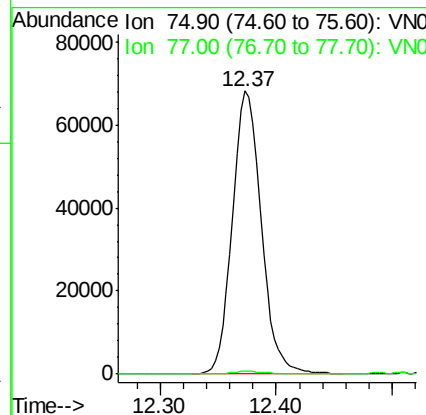
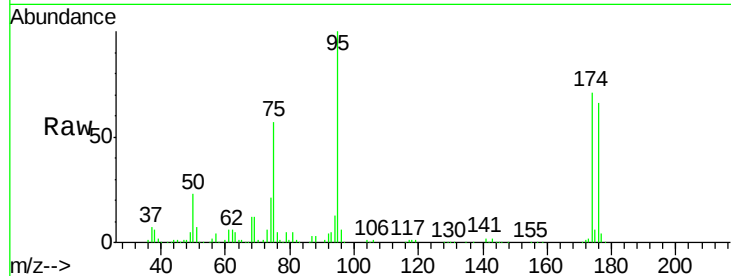
TB-111620

Tot Ion: 75 Resp: 117402

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 84.673 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064676.D

Acq: 17 Nov 2020 13:30

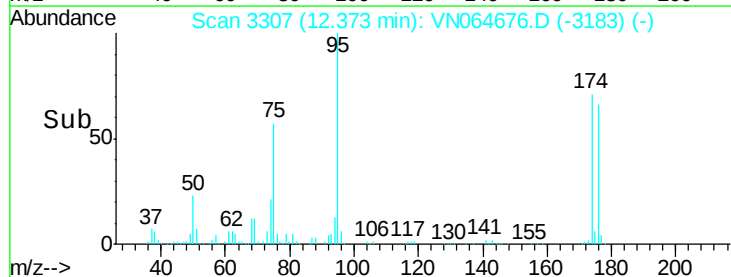
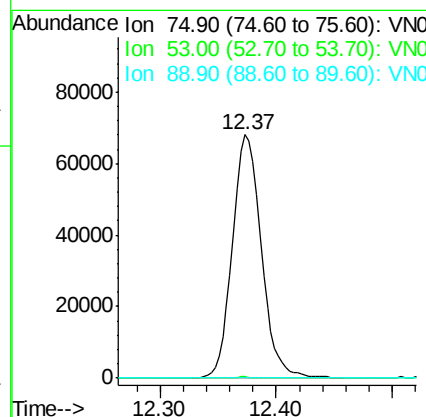
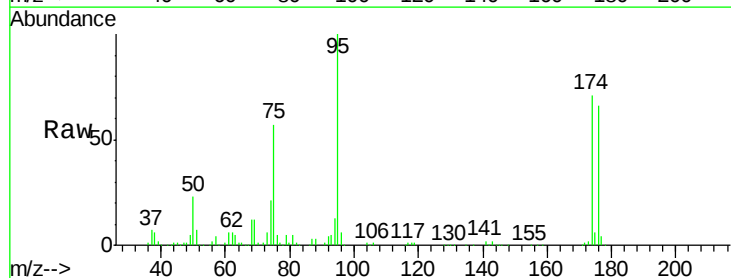
Tgt Ion: 75 Resp: 117402

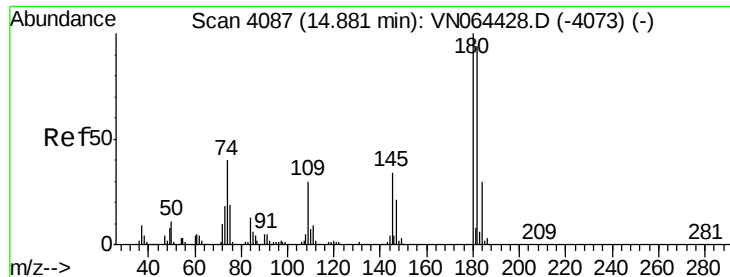
Ion Ratio Lower Upper

75 100

53 0.2 84.0 126.0#

89 0.0 36.3 54.5#

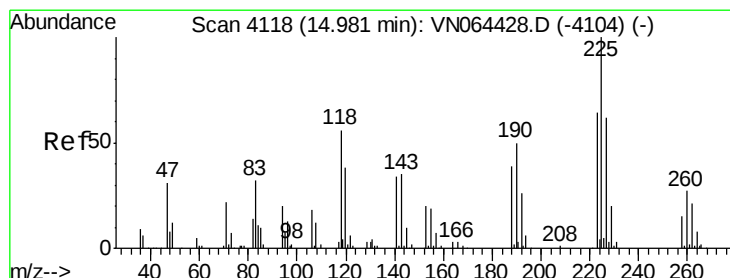
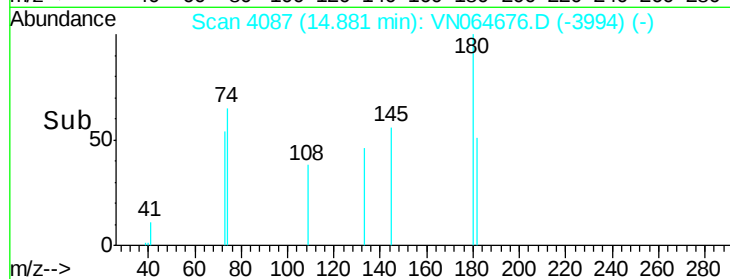
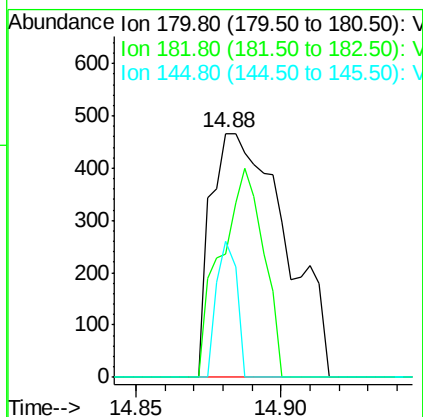
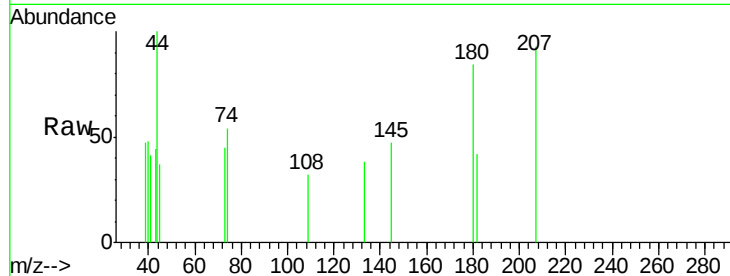




#93
 1,2,4-Trichlorobenzene
 Concen: 2.972 ug/l
 RT: 14.88 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN064676.D
 Acq: 17 Nov 2020 13:30

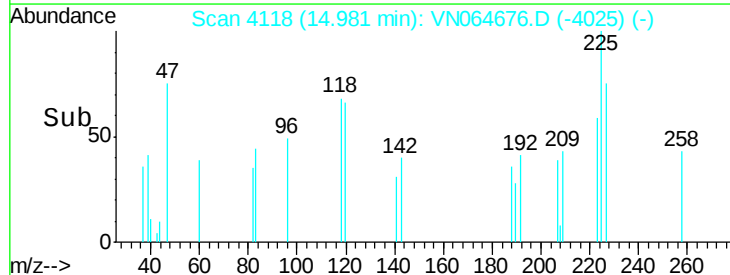
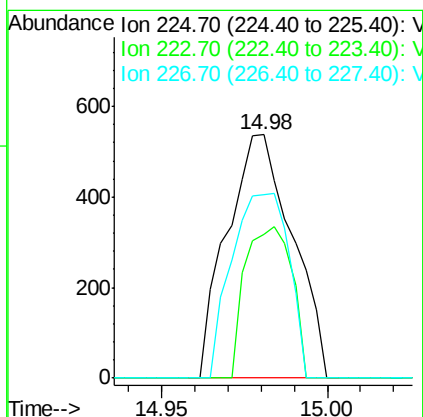
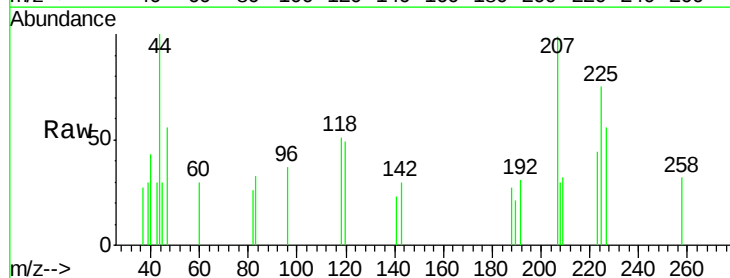
Instrument :
 MSVOA_N
 ClientSampled :
 TB-111620

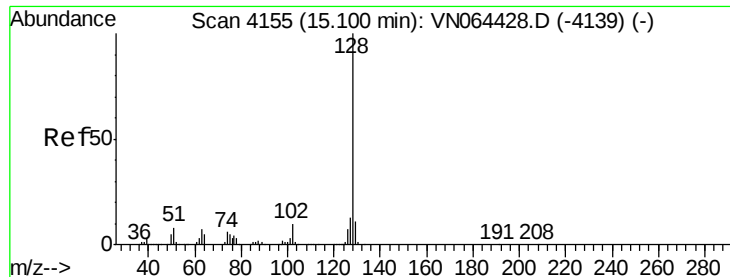
Tot Ion:180 Resp: 833
 Ion Ratio Lower Upper
 180 100
 182 49.3 47.3 142.0
 145 15.2 16.7 50.1#



#94
 Hexachlorobutadiene
 Concen: 0.702 ug/l
 RT: 14.98 min Scan# 4118
 Delta R.T. -0.00 min
 Lab File: VN064676.D
 Acq: 17 Nov 2020 13:30

Tgt Ion:225 Resp: 737
 Ion Ratio Lower Upper
 225 100
 223 44.4 31.8 95.4
 227 66.1 31.8 95.4





#95

Naphthalene

Concen: 3.849 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN064676.D

Acq: 17 Nov 2020 13:30

Instrument :

MSVOA_N

ClientSampled :

TB-111620

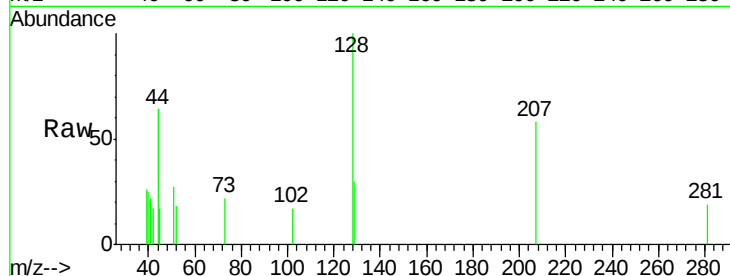
Tot Ion:128 Resp: 2132

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

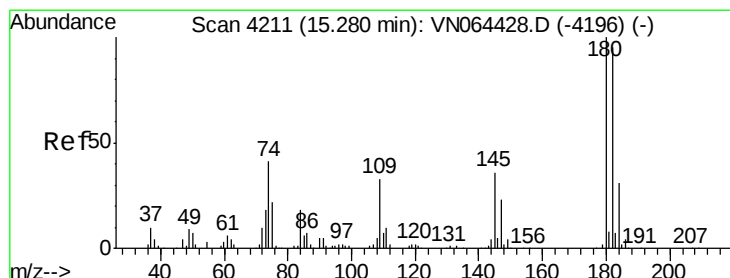
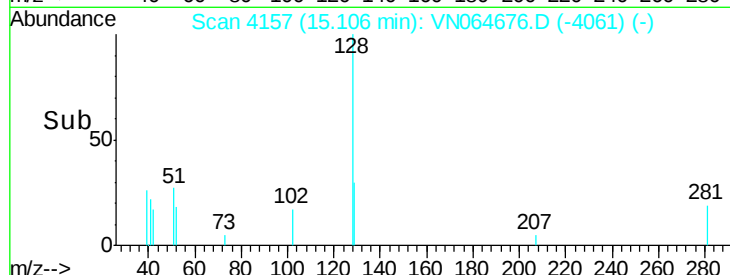
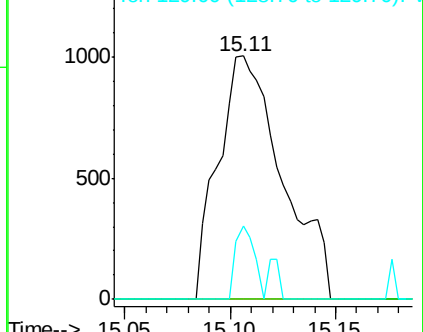
129 8.7 8.8 13.2#



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: 3.105 ug/l

RT: 15.29 min Scan# 4213

Delta R.T. 0.01 min

Lab File: VN064676.D

Acq: 17 Nov 2020 13:30

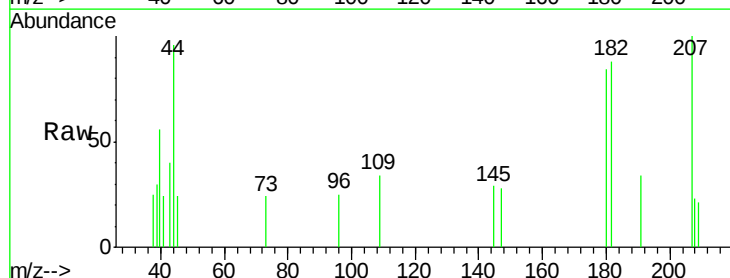
Tgt Ion:180 Resp: 867

Ion Ratio Lower Upper

180 100

182 99.3 47.7 143.1

145 26.0 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

