

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050720\
 Data File : VN061330.D
 Acq On : 7 May 2020 13:47
 Operator : JC/MD
 Sample : PB128697ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 08 01:35:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042720W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 07:01:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	100513	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	186291	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	184197	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	76809	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	86681	54.50	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	109.00%	
35) Dibromofluoromethane	7.55	113	52854	47.98	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.96%	
50) Toluene-d8	10.06	98	239351	53.30	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	106.60%	
62) 4-Bromofluorobenzene	12.38	95	87562	51.82	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	103.64%	

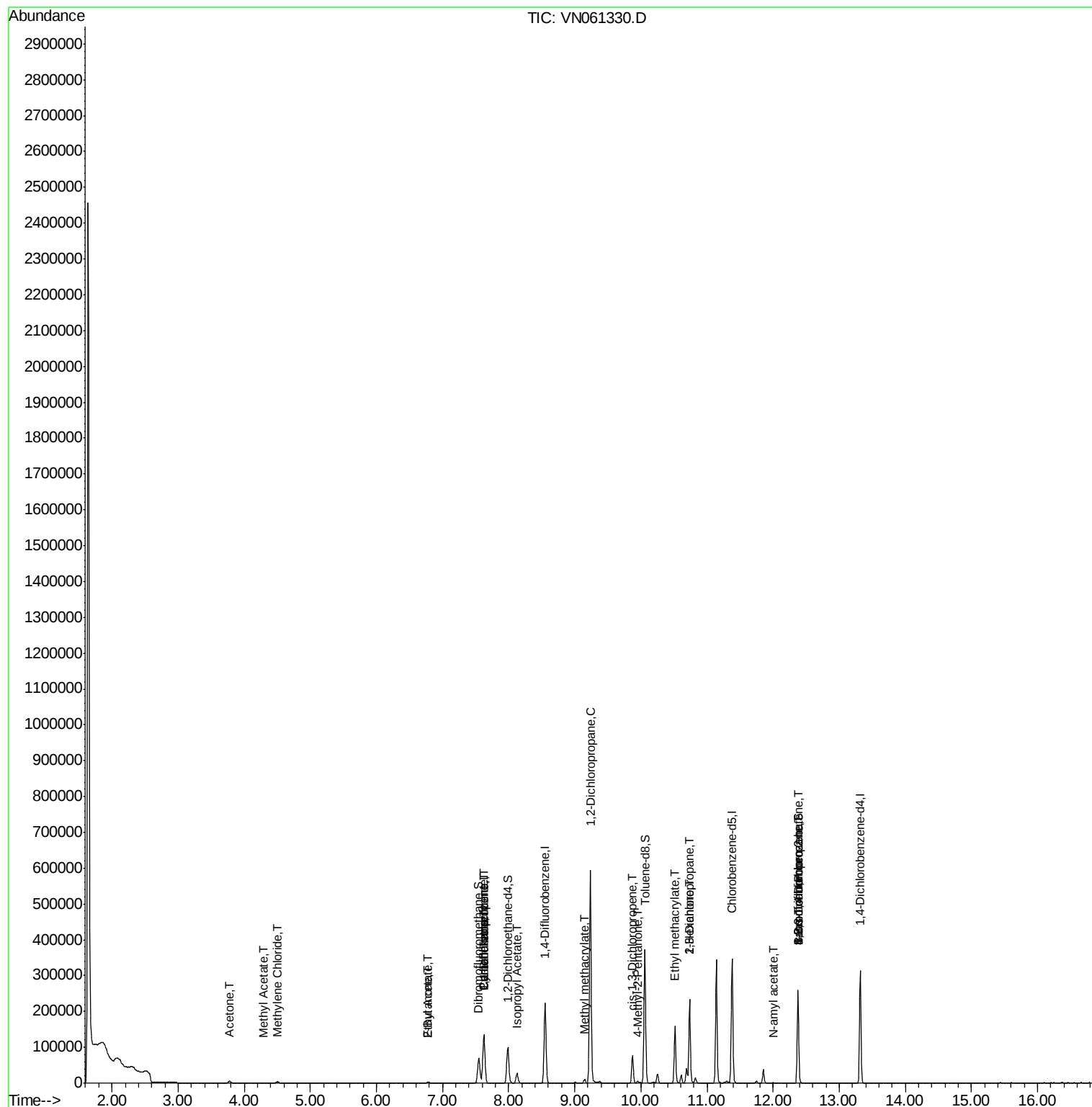
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	8107	7.828	ug/l	93
18) Methyl Acetate	4.29	43	992	1.166	ug/l #	55
20) Methylene Chloride	4.51	84	2858	2.305	ug/l	94
25) 2-Butanone	6.78	43	918	0.975	ug/l #	53
31) Cyclohexane	7.62	56	2723	1.177	ug/l #	8
36) 1,1-Dichloropropene	7.63	75	9451	5.068	ug/l #	50
37) Ethyl Acetate	6.78	43	918	0.420	ug/l #	71
38) Carbon Tetrachloride	7.63	117	11026	8.471	ug/l #	16
43) Isopropyl Acetate	8.13	43	34029	9.379	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	649	0.437	ug/l #	44
48) Methyl methacrylate	9.15	41	1758	1.074	ug/l #	16
51) 4-Methyl-2-Pentanone	9.95	43	3006	1.408	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	12493	5.316	ug/l #	66
56) Ethyl methacrylate	10.52	69	449	2.910	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	2178	0.928	ug/l #	43
59) 2-Hexanone	10.74	43	37952	24.426	ug/l #	51
71) Bromoform	12.38	173	502	0.522	ug/l #	1
74) N-amyl acetate	12.00	43	1367	0.478	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	48057	29.677	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	48057	75.364	ug/l #	8

(#) = 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# 1877

Delta R.T. 0.00 min

Lab File: VN061330.D

Acq: 7 May 2020 13:47

Instrument :

MSVOA_N

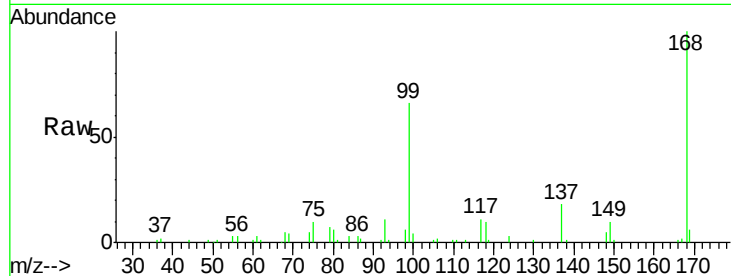
ClientSampleId :

Tot Ion:168 Resp: 100513

Ion Ratio Lower Upper

168 100

99 65.6 51.2 76.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

40000

30000

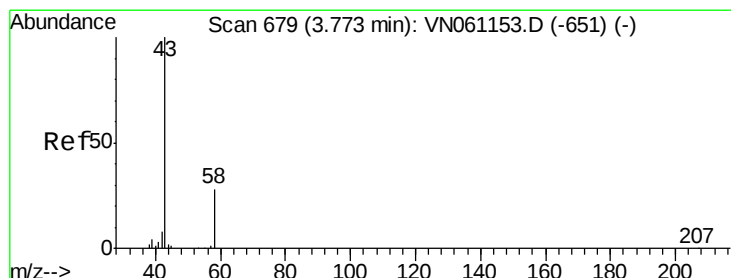
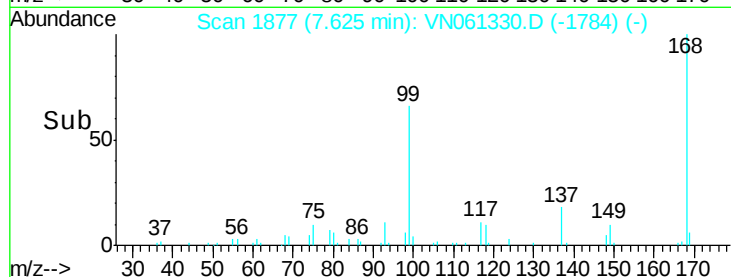
20000

10000

0

7.55 7.60 7.65 7.70

Time-->



#16

Acetone

Concen: 7.828 ug/l

RT: 3.78 min Scan# 680

Delta R.T. 0.00 min

Lab File: VN061330.D

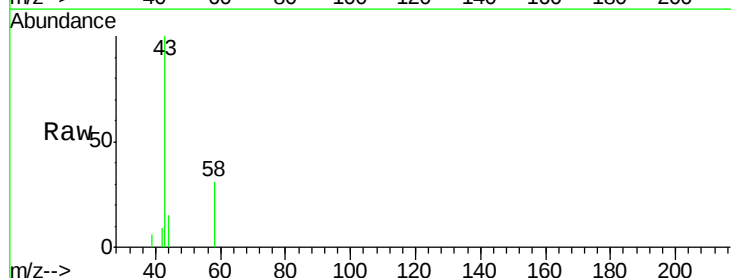
Acq: 7 May 2020 13:47

Tgt Ion: 43 Resp: 8107

Ion Ratio Lower Upper

43 100

58 31.4 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

3000

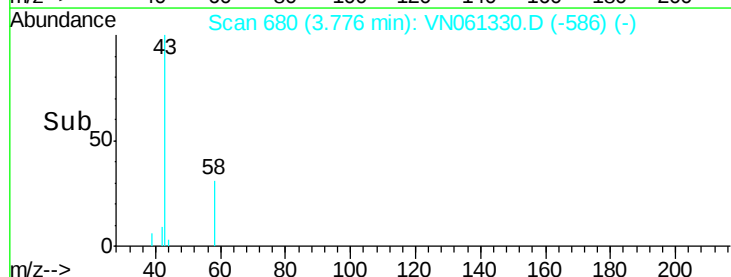
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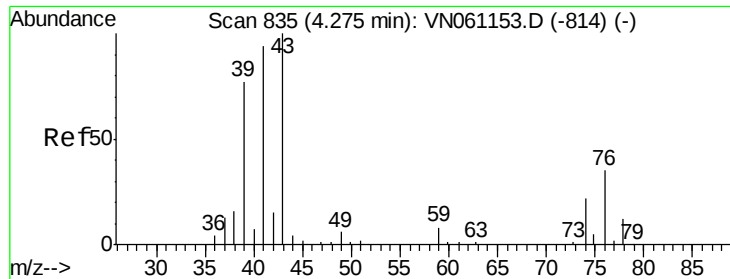
1000

0

3.70 3.75 3.80 3.85

Time-->

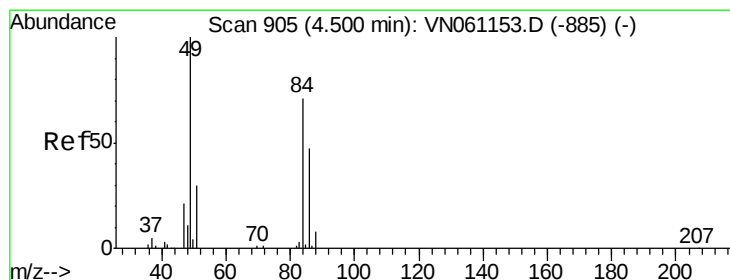
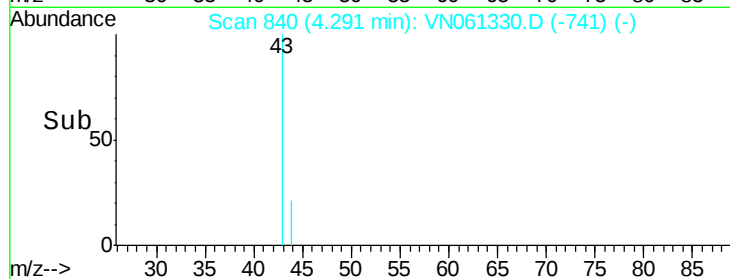
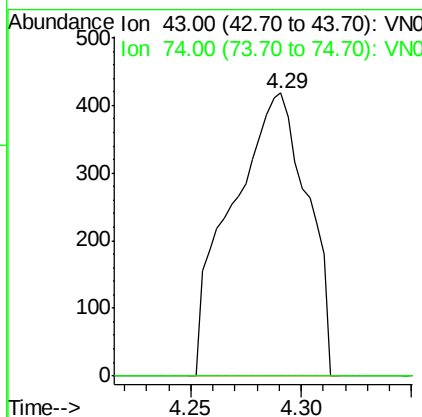
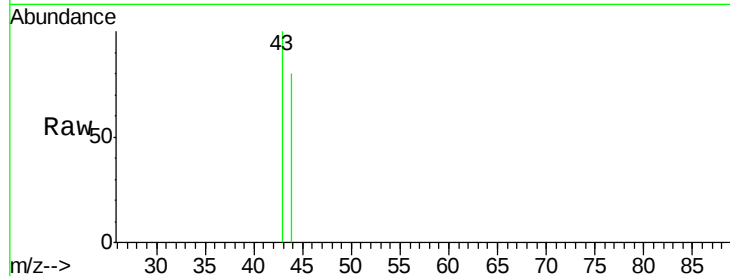




#18
Methvl Acetate
Concen: 1.166 ug/l
RT: 4.29 min Scan# 840
Delta R.T. 0.02 min
Lab File: VN061330.D
Acq: 7 May 2020 13:47

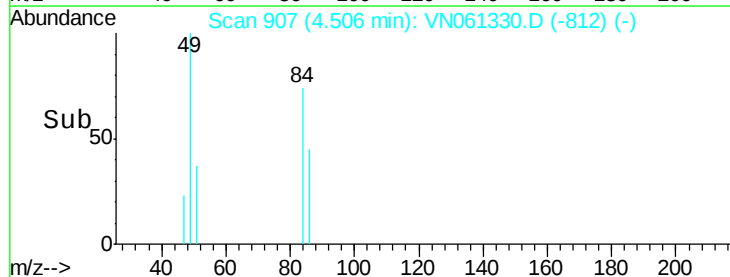
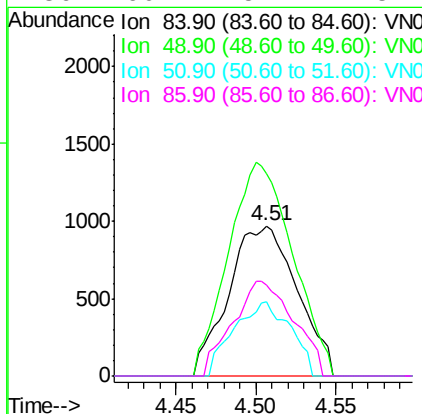
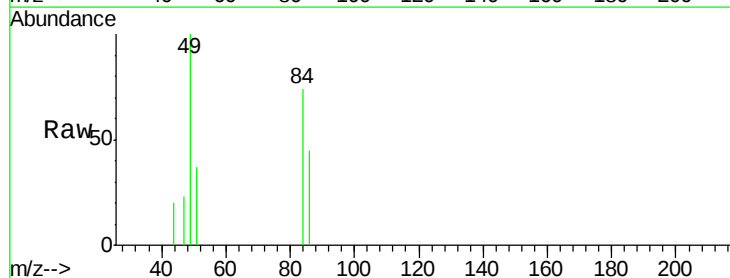
Instrument :
MSVOA_N
ClientSampleId :

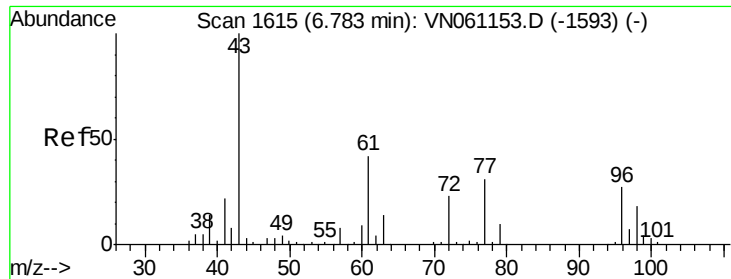
Tot Ion: 43 Resp: 992
Ion Ratio Lower Upper
43 100
74 0.0 17.0 25.4#



#20
Methylene Chloride
Concen: 2.305 ug/l
RT: 4.51 min Scan# 907
Delta R.T. 0.01 min
Lab File: VN061330.D
Acq: 7 May 2020 13:47

Tgt Ion: 84 Resp: 2858
Ion Ratio Lower Upper
84 100
49 134.5 112.0 168.0
51 49.1 33.6 50.4
86 60.2 52.1 78.1





#25

2-Butanone

Concen: 0.975 ug/l

RT: 6.78 min Scan# 1615

Delta R.T. 0.00 min

Lab File: VN061330.D

Acq: 7 May 2020 13:47

Instrument :

MSVOA_N

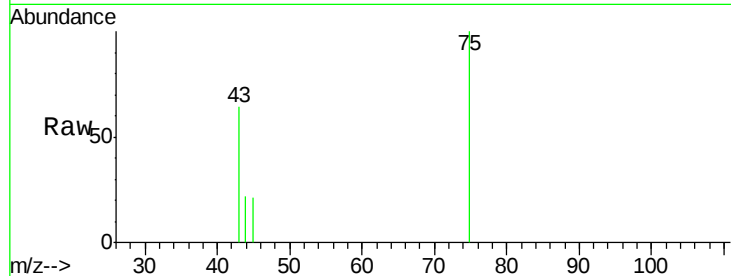
ClientSampleId :

Tot Ion: 43 Resp: 918

Ion Ratio Lower Upper

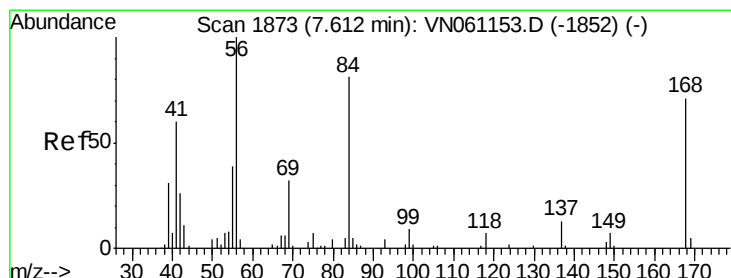
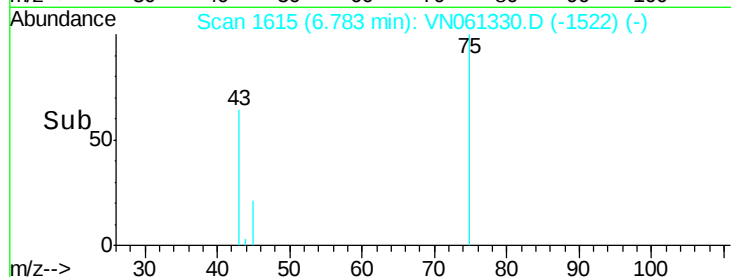
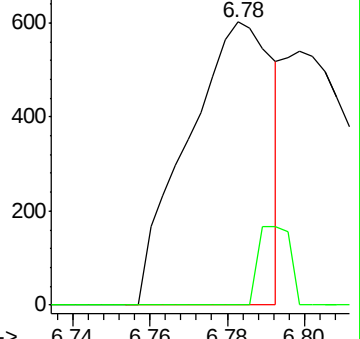
43 100

72 0.0 18.2 27.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#31

Cyclohexane

Concen: 1.177 ug/l

RT: 7.62 min Scan# 1876

Delta R.T. 0.01 min

Lab File: VN061330.D

Acq: 7 May 2020 13:47

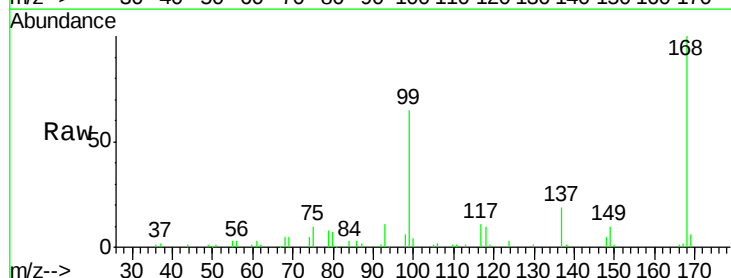
Tgt Ion: 56 Resp: 2723

Ion Ratio Lower Upper

56 100

69 158.4 25.7 38.5#

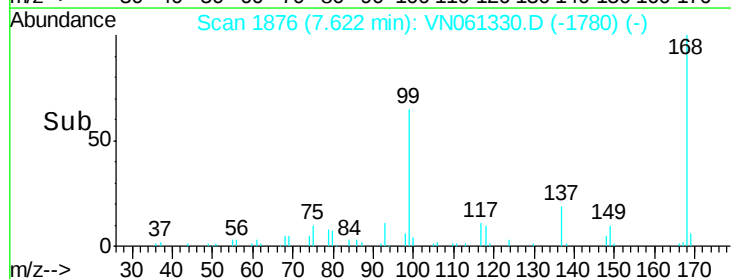
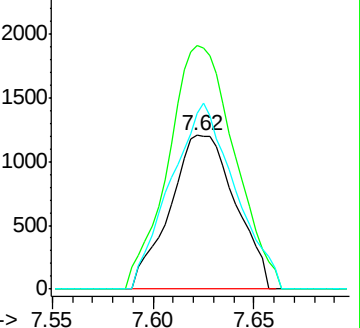
84 114.8 64.6 97.0#

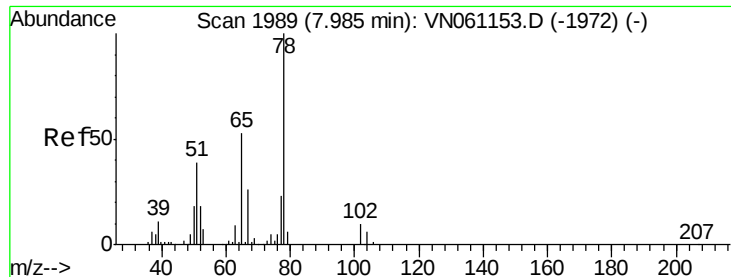


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 54.502 ug/l

RT: 7.99 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN061330.D

Acq: 7 May 2020 13:47

Instrument :

MSVOA_N

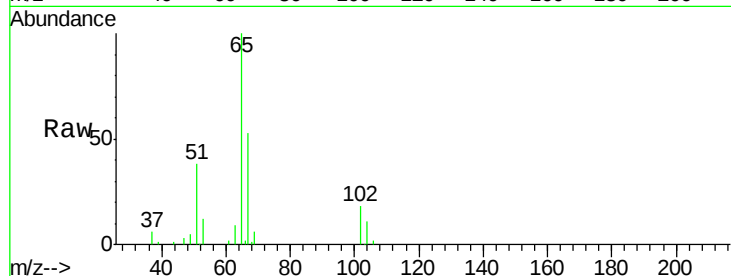
ClientSampleId :

Tot Ion: 65 Resp: 86681

Ion Ratio Lower Upper

65 100

67 51.0 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN061153.D (-1972) (-)

Ion 66.90 (66.60 to 67.60): VN061153.D (-1972) (-)

7.99

40000

30000

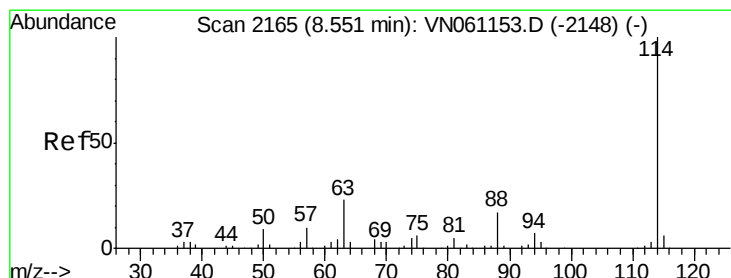
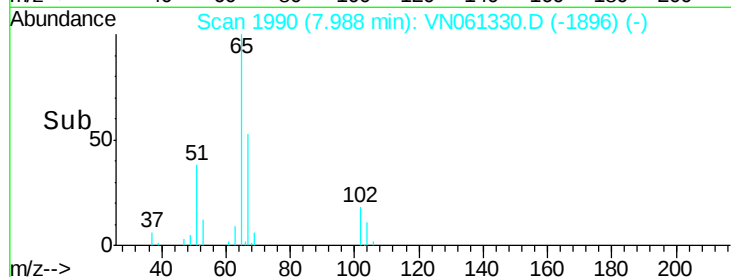
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10000

0

Time-->

7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VN061330.D

Acq: 7 May 2020 13:47

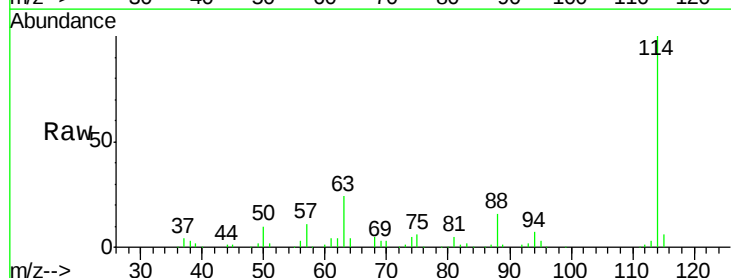
Tgt Ion: 114 Resp: 186291

Ion Ratio Lower Upper

114 100

63 23.6 0.0 46.6

88 16.1 0.0 33.4



Abundance Ion 113.90 (113.60 to 114.60): VN061153.D (-2148) (-)

Ion 63.00 (62.70 to 63.70): VN061153.D (-2148) (-)

Ion 87.90 (87.60 to 88.60): VN061153.D (-2148) (-)

8.55

120000

100000

80000

60000

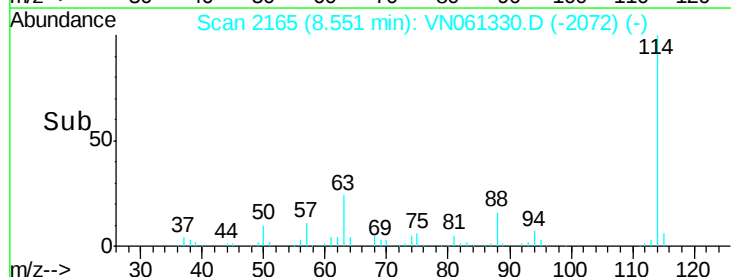
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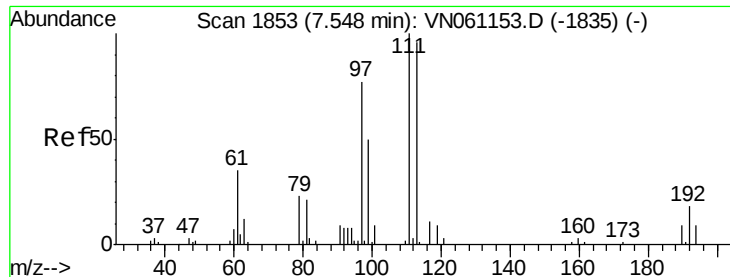
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Time-->

8.45 8.50 8.55 8.60 8.65

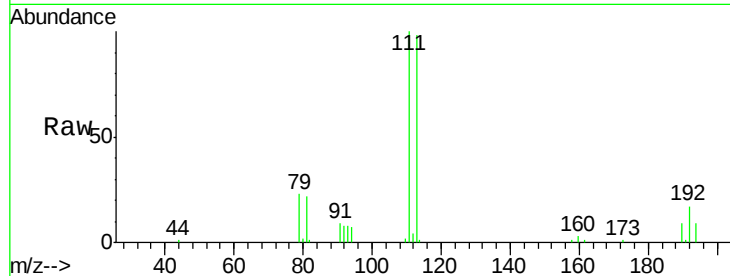




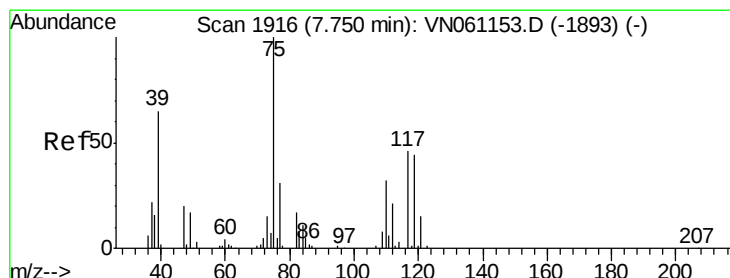
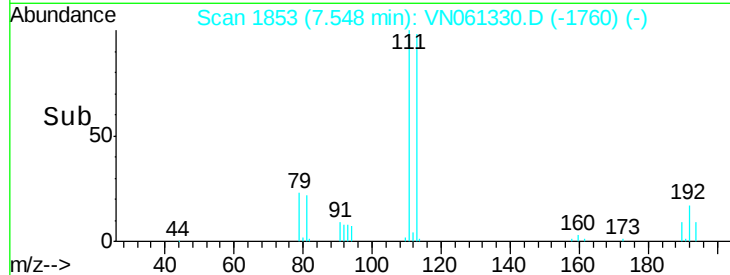
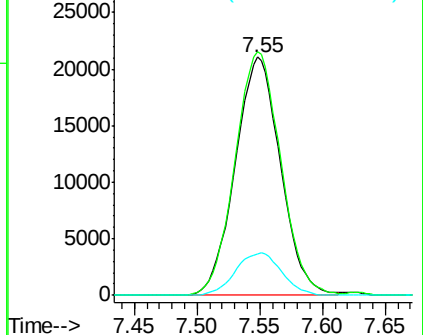
#35
 Dibromofluoromethane
 Concen: 47.980 ug/l
 RT: 7.55 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VN061330.D
 Acq: 7 May 2020 13:47

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 52854
 Ion Ratio Lower Upper
 113 100
 111 103.3 82.9 124.3
 192 18.0 14.7 22.1

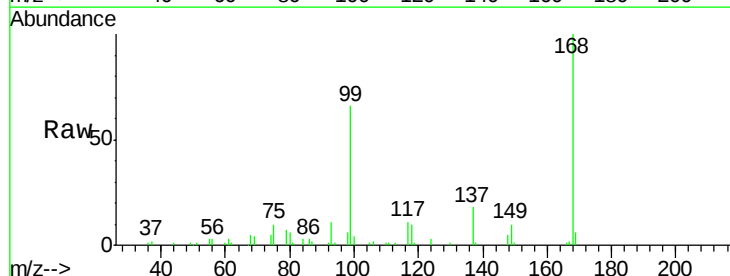


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

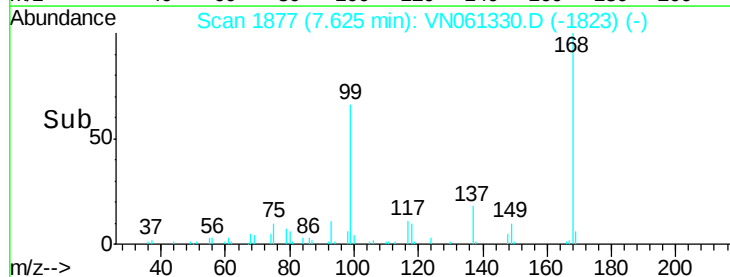
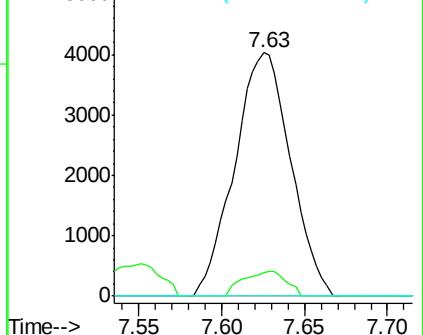


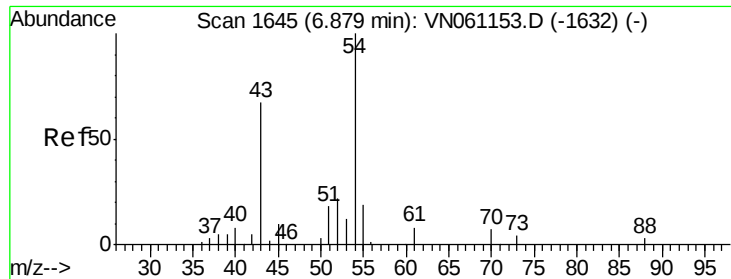
#36
 1,1-Dichloropropene
 Concen: 5.068 ug/l
 RT: 7.63 min Scan# 1877
 Delta R.T. -0.13 min
 Lab File: VN061330.D
 Acq: 7 May 2020 13:47

Tgt Ion: 75 Resp: 9451
 Ion Ratio Lower Upper
 75 100
 110 7.8 16.0 48.0#
 77 0.0 24.6 37.0#



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

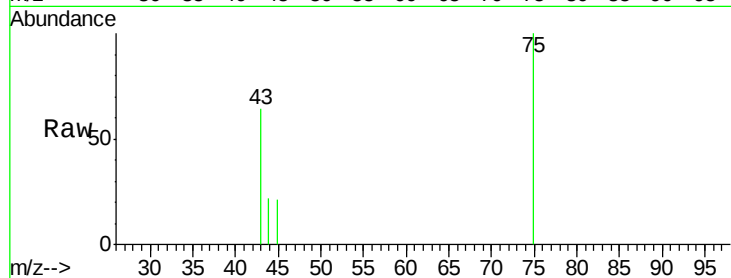




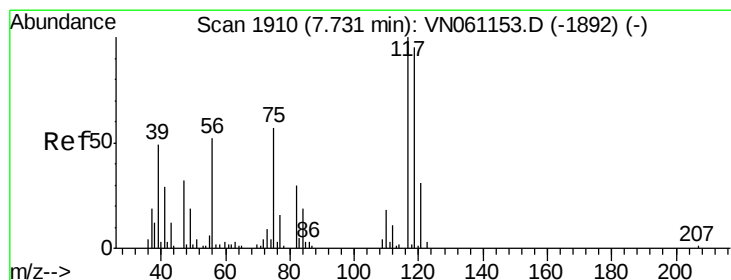
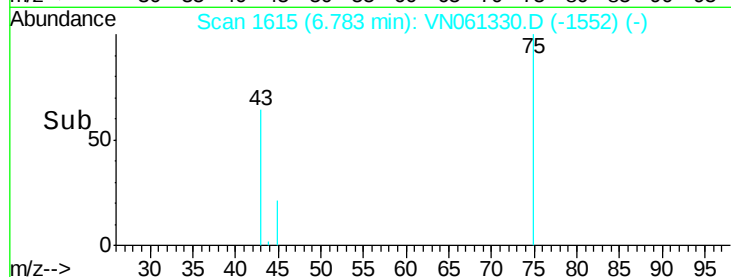
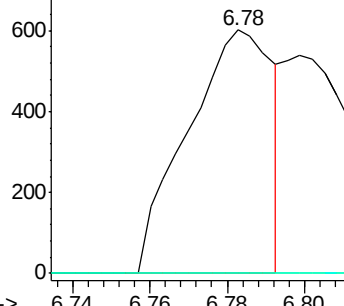
#37
Ethyl Acetate
Concen: 0.420 ug/l
RT: 6.78 min Scan# 1615
Delta R.T. -0.10 min
Lab File: VN061330.D
Acq: 7 May 2020 13:47

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 918
Ion Ratio Lower Upper
43 100
61 0.0 10.2 15.2#
70 0.0 7.2 10.8#

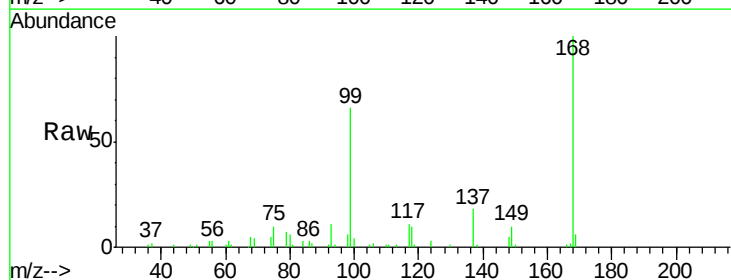


Abundance Ion 43.00 (42.70 to 43.70): VN061153.D (-1632) (-)
Ion 60.90 (60.60 to 61.60): VN061153.D (-1632) (-)
Ion 70.00 (69.70 to 70.70): VN061153.D (-1632) (-)

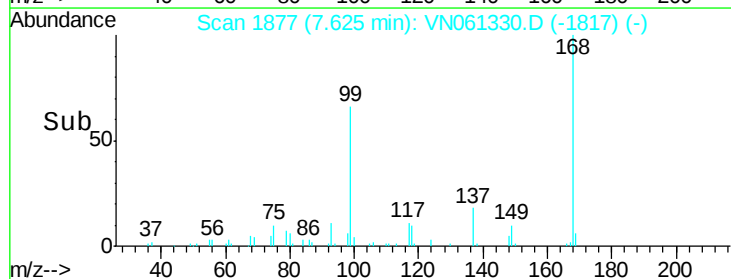
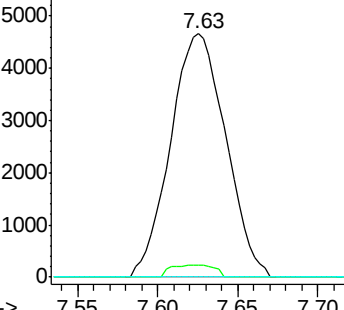


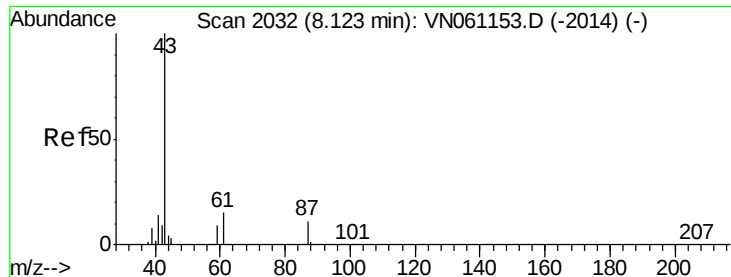
#38
Carbon Tetrachloride
Concen: 8.471 ug/l
RT: 7.63 min Scan# 1877
Delta R.T. -0.11 min
Lab File: VN061330.D
Acq: 7 May 2020 13:47

Tgt Ion: 117 Resp: 11026
Ion Ratio Lower Upper
117 100
119 5.0 75.8 113.6#
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): VN061153.D (-1892) (-)
Ion 118.80 (118.50 to 119.50): VN061153.D (-1892) (-)
Ion 120.80 (120.50 to 121.50): VN061153.D (-1892) (-)





#43

Isopropyl Acetate

Concen: 9.379 ug/l

RT: 8.13 min Scan# 2033

Delta R.T. 0.00 min

Lab File: VN061330.D

Acq: 7 May 2020 13:47

Instrument :

MSVOA_N

ClientSampled :

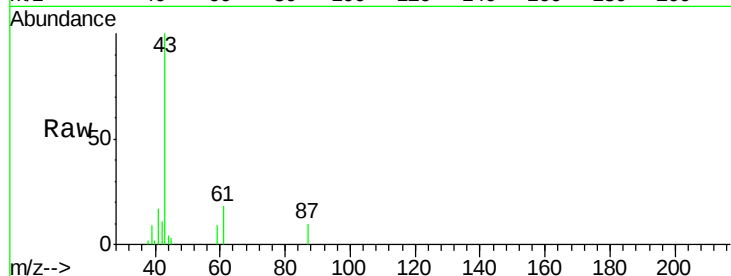
Tot Ion: 43 Resp: 34029

Ion Ratio Lower Upper

43 100

61 17.6 19.5 29.3#

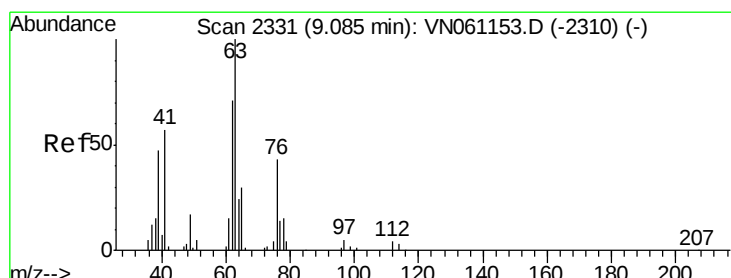
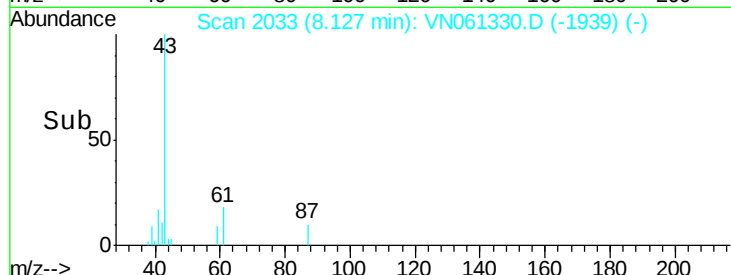
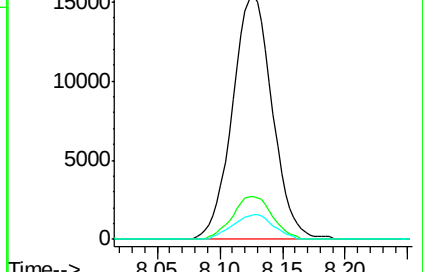
87 10.3 8.9 13.3



Abundance Ion 43.00 (42.70 to 43.70): VN061153.D (-2014) (-)

Ion 61.00 (60.70 to 61.70): VN061153.D (-2014) (-)

Ion 87.00 (86.70 to 87.70): VN061153.D (-2014) (-)



#45

1,2-Dichloropropane

Concen: 0.437 ug/l

RT: 9.23 min Scan# 2377

Delta R.T. 0.15 min

Lab File: VN061330.D

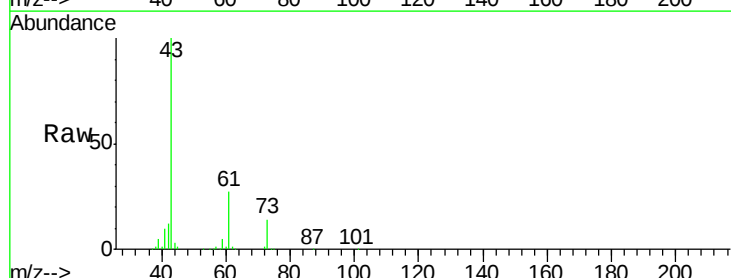
Acq: 7 May 2020 13:47

Tgt Ion: 63 Resp: 649

Ion Ratio Lower Upper

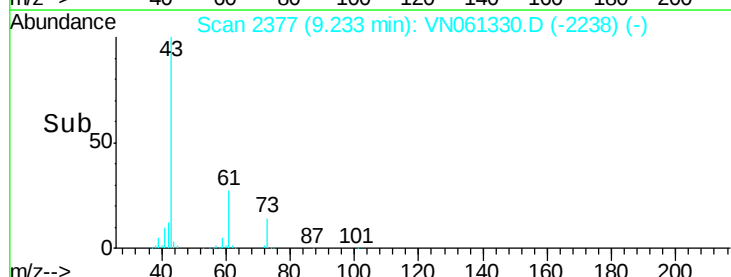
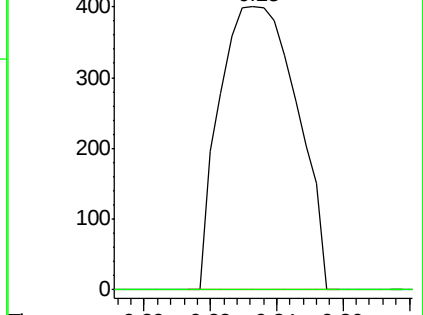
63 100

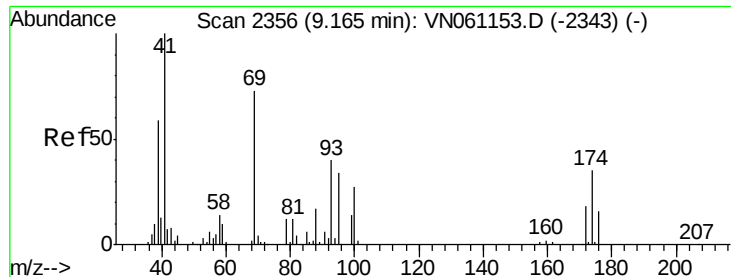
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN061153.D (-2310) (-)

Ion 64.90 (64.60 to 65.60): VN061153.D (-2310) (-)

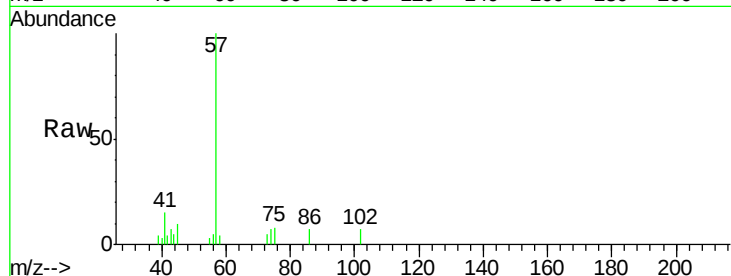




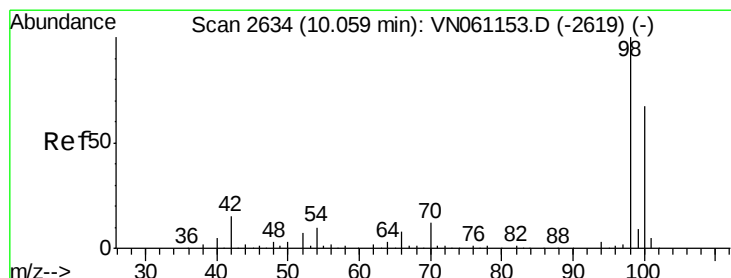
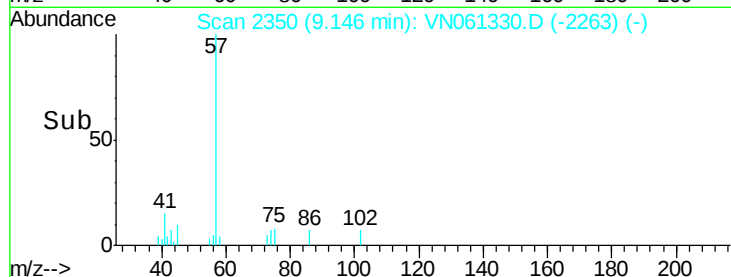
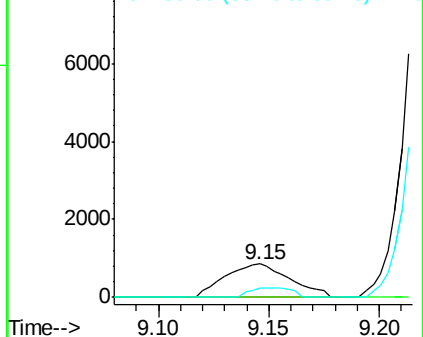
#48
Methvl methacrylate
Concen: 1.074 ug/l
RT: 9.15 min Scan# 2350
Delta R.T. -0.02 min
Lab File: VN061330.D
Acq: 7 May 2020 13:47

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 1758
Ion Ratio Lower Upper
41 100
69 0.0 60.3 90.5#
39 0.0 47.4 71.0#

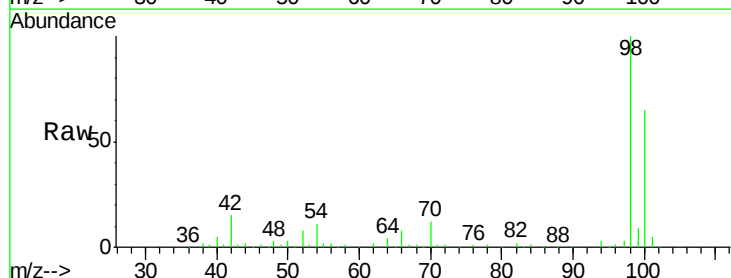


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

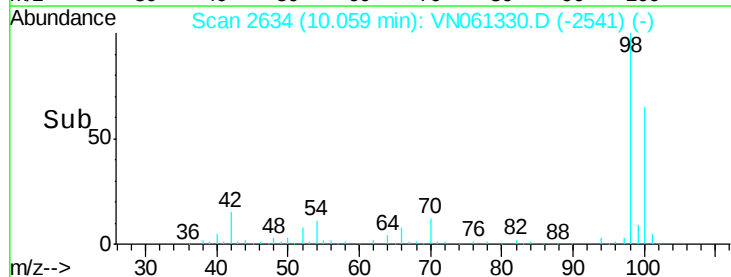
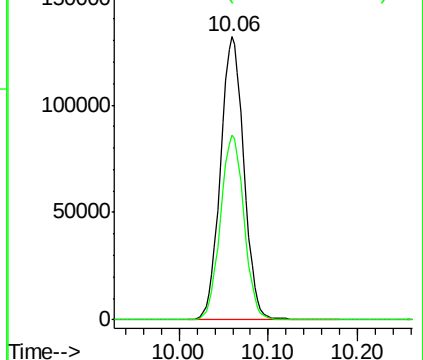


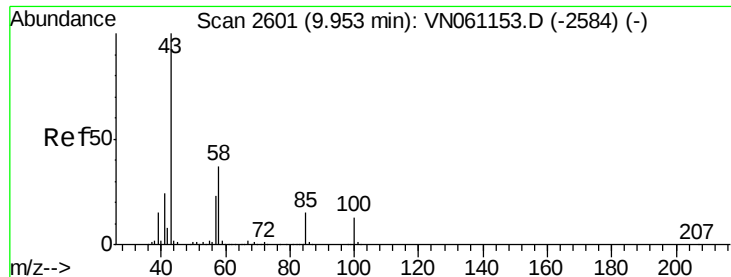
#50
Toluene-d8
Concen: 53.300 ug/l
RT: 10.06 min Scan# 2634
Delta R.T. 0.00 min
Lab File: VN061330.D
Acq: 7 May 2020 13:47

Tgt Ion: 98 Resp: 239351
Ion Ratio Lower Upper
98 100
100 65.6 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

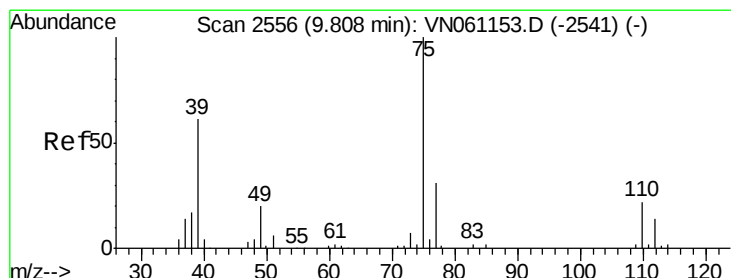
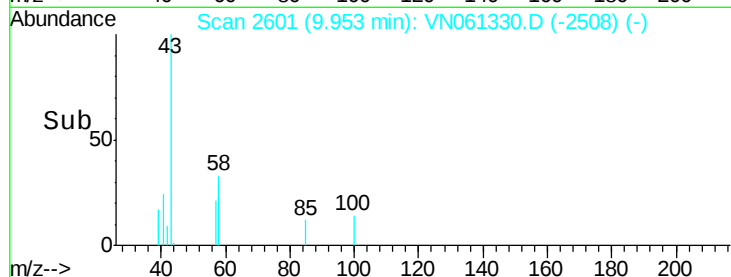
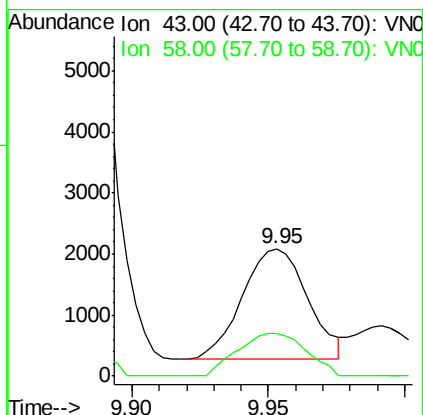
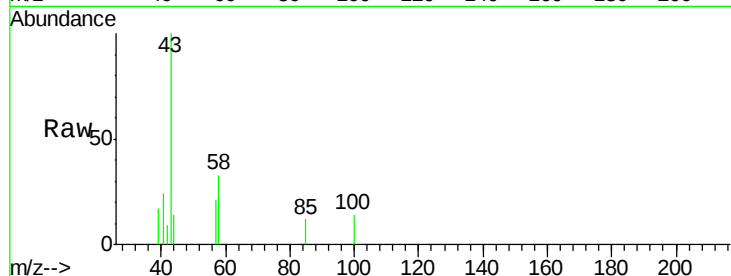




#51
4-Methyl-2-Pentanone
Concen: 1.408 ug/l
RT: 9.95 min Scan# 2601
Delta R.T. 0.00 min
Lab File: VN061330.D
Acq: 7 May 2020 13:47

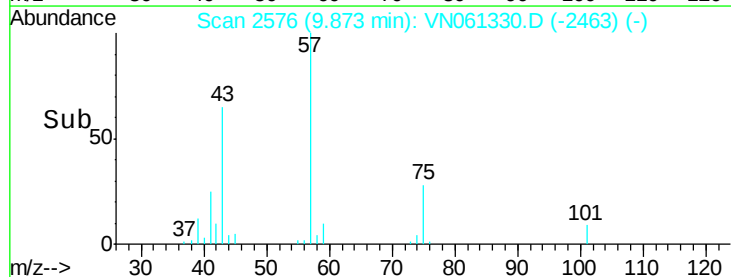
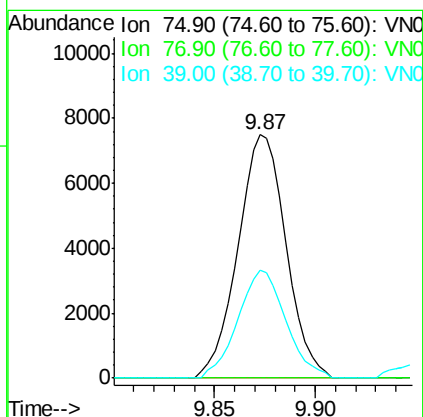
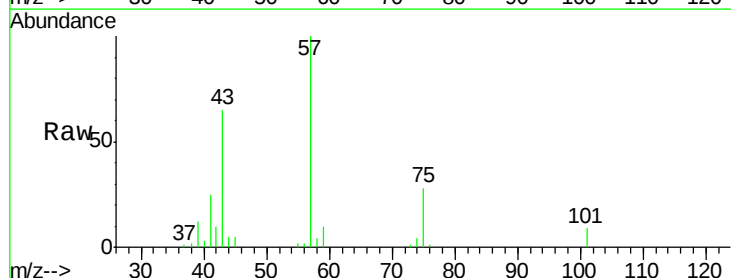
Instrument :
MSVOA_N
ClientSampled :

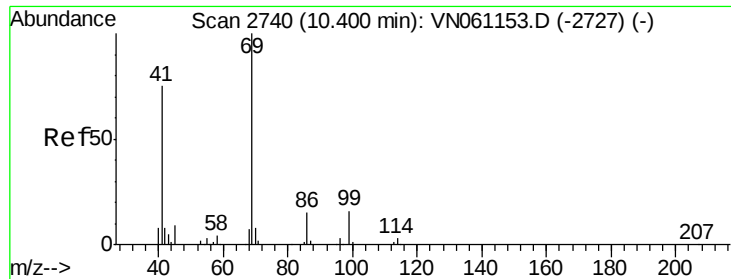
Tot Ion: 43 Resp: 3006
Ion Ratio Lower Upper
43 100
58 40.9 29.1 43.7



#54
cis-1,3-Dichloropropene
Concen: 5.316 ug/l
RT: 9.87 min Scan# 2576
Delta R.T. 0.06 min
Lab File: VN061330.D
Acq: 7 May 2020 13:47

Tgt Ion: 75 Resp: 12493
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.4#
39 44.2 48.7 73.1#





#56

Ethyl methacrylate

Concen: 2.910 ug/l

RT: 10.52 min Scan# 2776

Delta R.T. 0.12 min

Lab File: VN061330.D

Acq: 7 May 2020 13:47

Instrument :

MSVOA_N

ClientSampled :

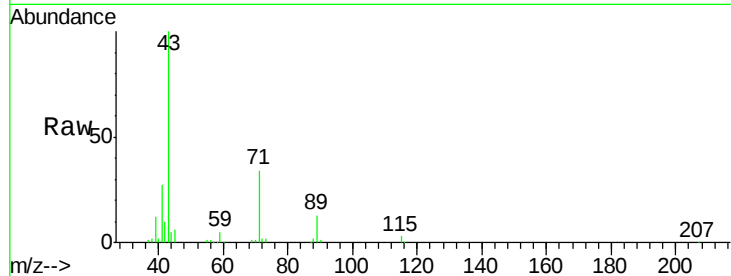
Tot Ion: 69 Resp: 449

Ion Ratio Lower Upper

69 100

41 7006.0 60.3 90.5#

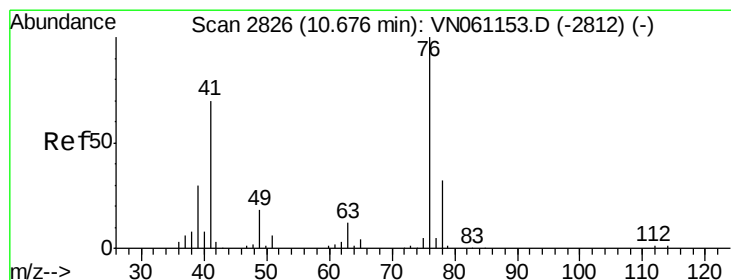
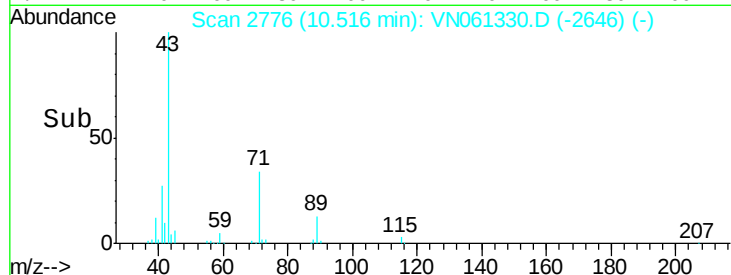
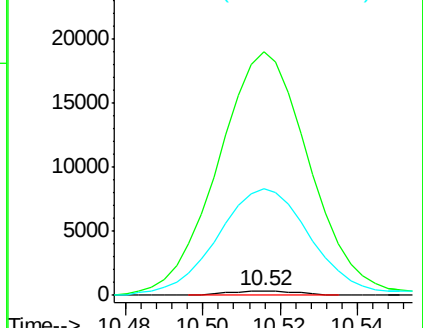
39 3148.6 35.9 53.9#



Abundance Ion 69.00 (68.70 to 69.70): VN061330.D (-2646) (-)

Ion 41.00 (40.70 to 41.70): VN061330.D (-2646) (-)

Ion 39.00 (38.70 to 39.70): VN061330.D (-2646) (-)



#57

1,3-Dichloropropane

Concen: 0.928 ug/l

RT: 10.73 min Scan# 2844

Delta R.T. 0.06 min

Lab File: VN061330.D

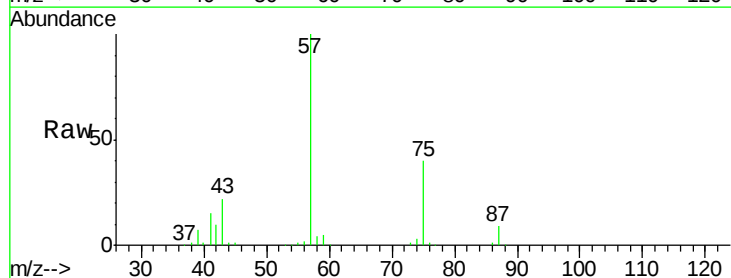
Acq: 7 May 2020 13:47

Tgt Ion: 76 Resp: 2178

Ion Ratio Lower Upper

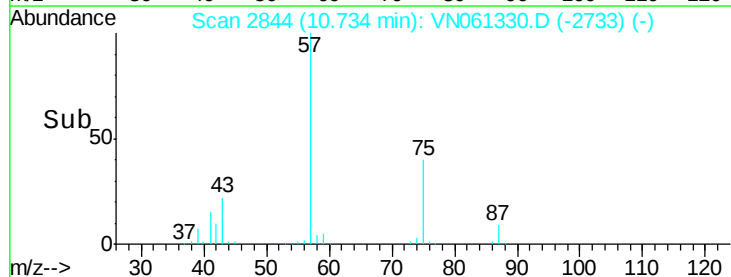
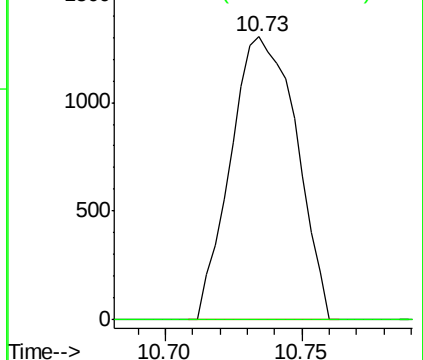
76 100

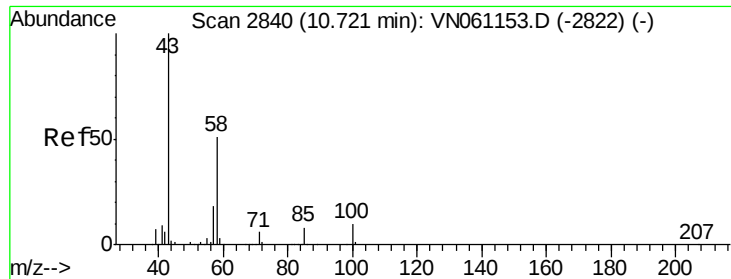
78 0.0 25.5 38.3#



Abundance Ion 75.90 (75.60 to 76.60): VN061330.D (-2733) (-)

Ion 77.90 (77.60 to 78.60): VN061330.D (-2733) (-)

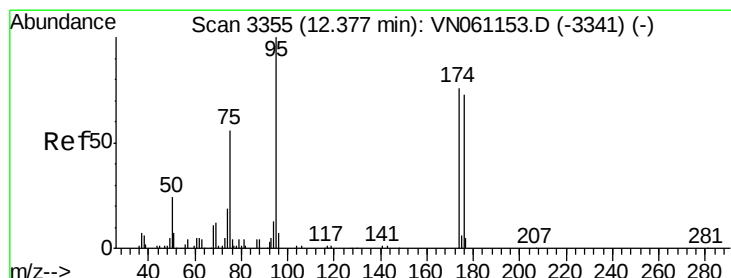
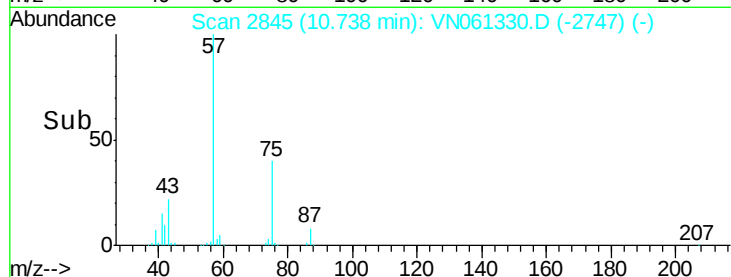
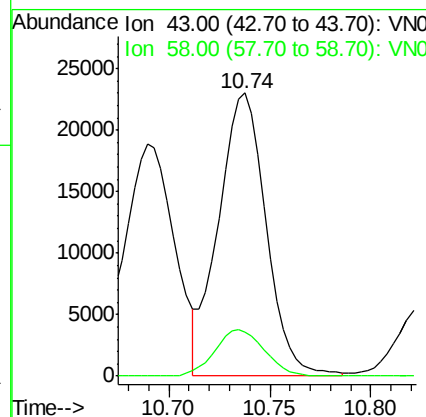
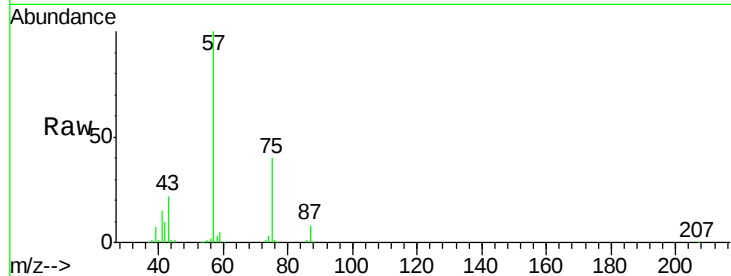




#59
2-Hexanone
Concen: 24.426 ug/l
RT: 10.74 min Scan# 2845
Delta R.T. 0.02 min
Lab File: VN061330.D
Acq: 7 May 2020 13:47

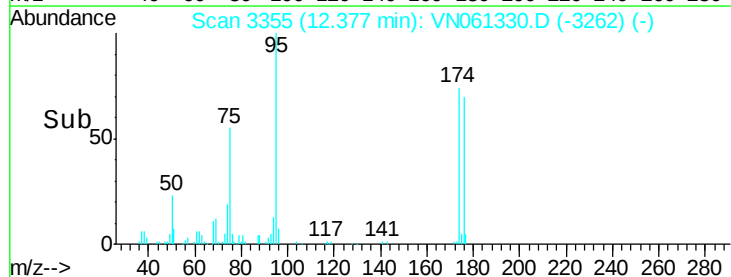
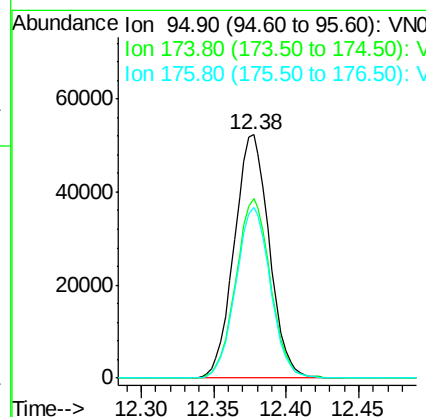
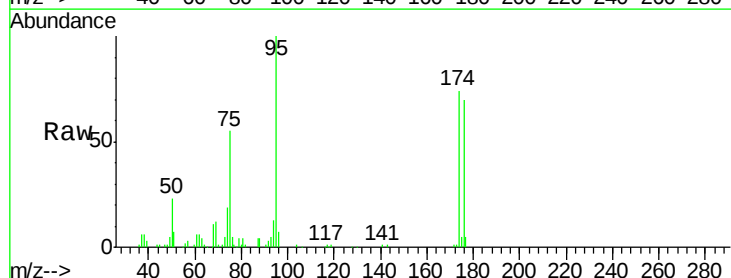
Instrument :
MSVOA_N
ClientSampled :

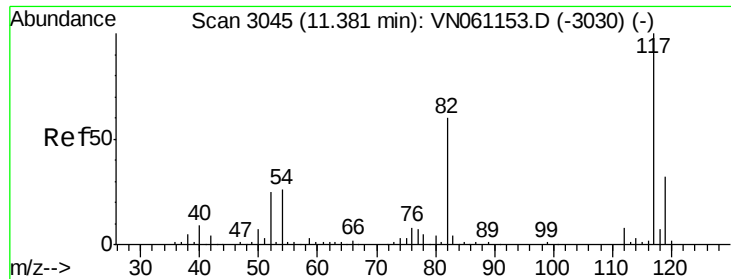
Tot Ion: 43 Resp: 37952
Ion Ratio Lower Upper
43 100
58 17.0 25.4 76.4#



#62
4-Bromofluorobenzene
Concen: 51.815 ug/l
RT: 12.38 min Scan# 3355
Delta R.T. 0.00 min
Lab File: VN061330.D
Acq: 7 May 2020 13:47

Tgt Ion: 95 Resp: 87562
Ion Ratio Lower Upper
95 100
174 73.0 0.0 149.4
176 69.2 0.0 144.8

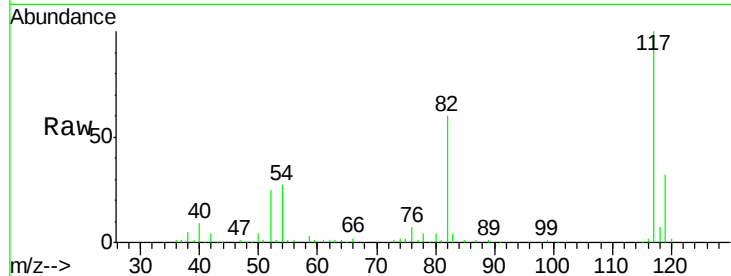




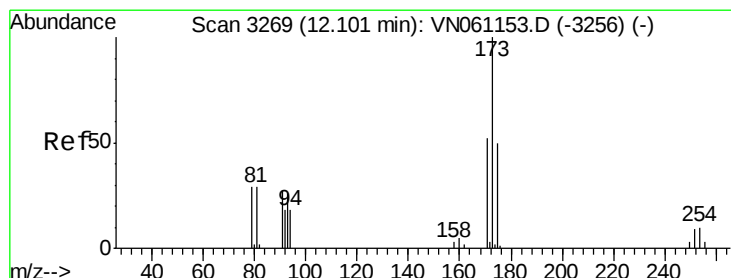
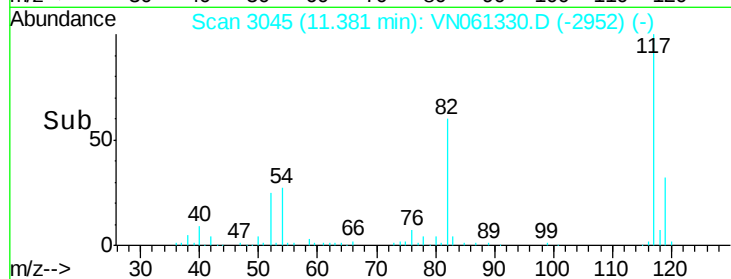
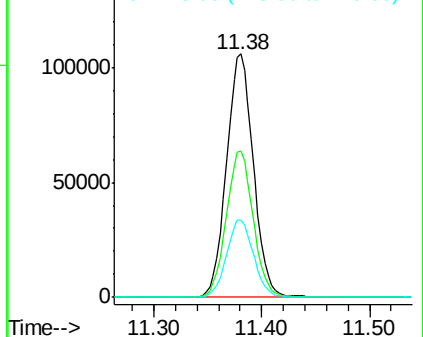
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 3045
Delta R.T. 0.00 min
Lab File: VN061330.D
Acq: 7 May 2020 13:47

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 184197
Ion Ratio Lower Upper
117 100
82 60.2 47.8 71.8
119 31.9 25.8 38.6

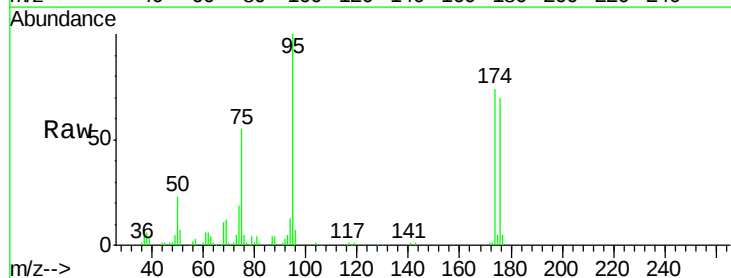


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

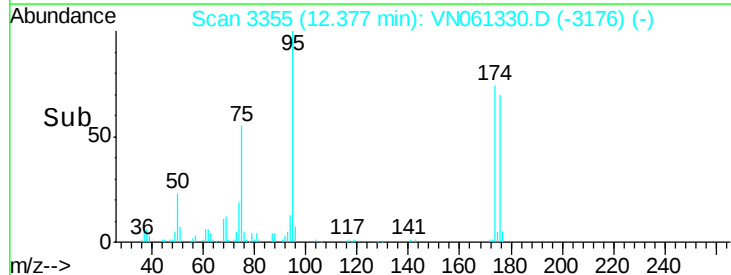
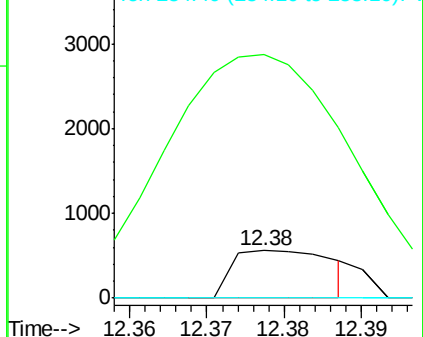


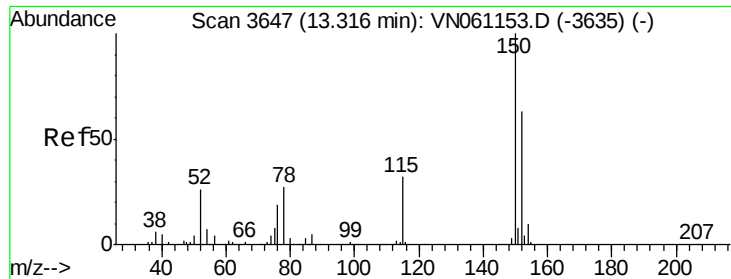
#71
Bromoform
Concen: 0.522 ug/l
RT: 12.38 min Scan# 3355
Delta R.T. 0.28 min
Lab File: VN061330.D
Acq: 7 May 2020 13:47

Tgt Ion:173 Resp: 502
Ion Ratio Lower Upper
173 100
175 847.0 24.1 72.4#
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# 3648

Delta R.T. 0.00 min

Lab File: VN061330.D

Acq: 7 May 2020 13:47

Instrument :

MSVOA_N

ClientSampleId :

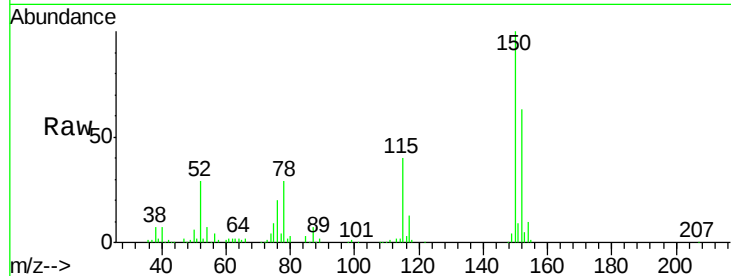
Tot Ion:152 Resp: 76809

Ion Ratio Lower Upper

152 100

115 63.7 31.0 93.0

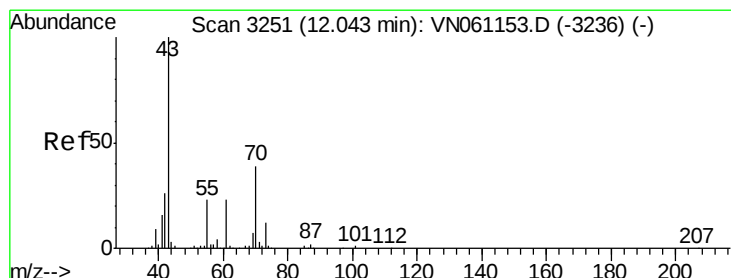
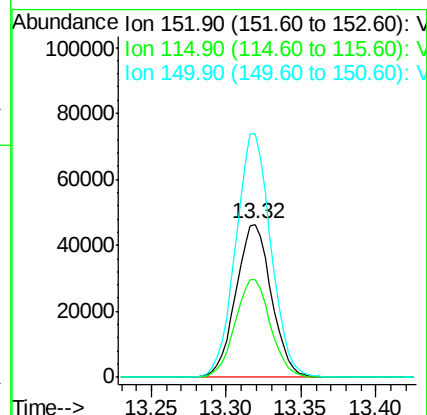
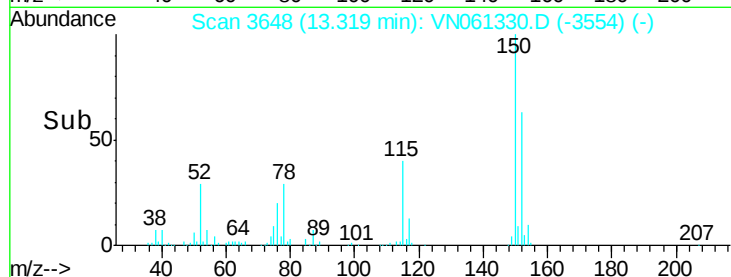
150 157.9 0.0 351.8



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: 0.478 ug/l

RT: 12.00 min Scan# 3239

Delta R.T. -0.04 min

Lab File: VN061330.D

Acq: 7 May 2020 13:47

Tgt Ion: 43 Resp: 1367

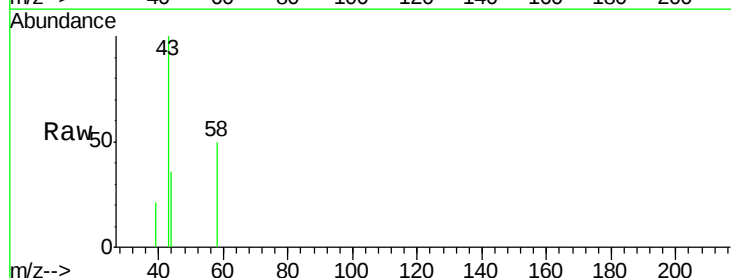
Ion Ratio Lower Upper

43 100

70 0.0 30.6 46.0#

55 0.0 18.5 27.7#

61 0.0 17.9 26.9#

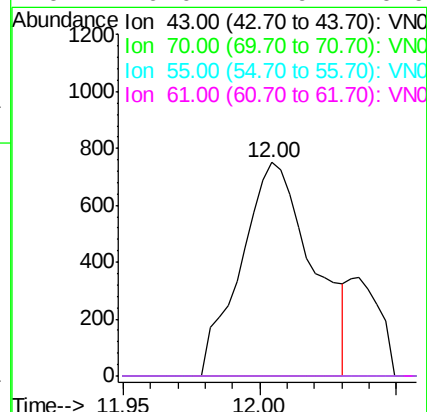
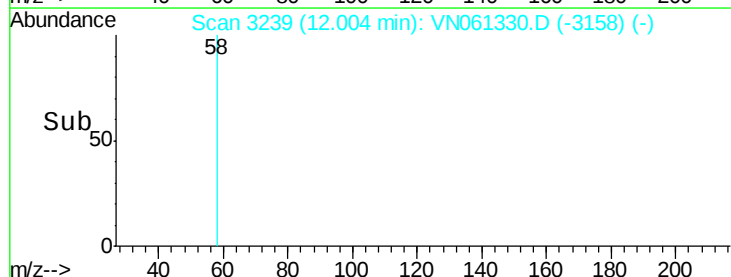


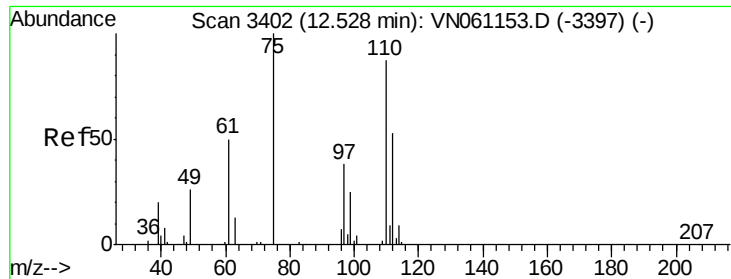
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

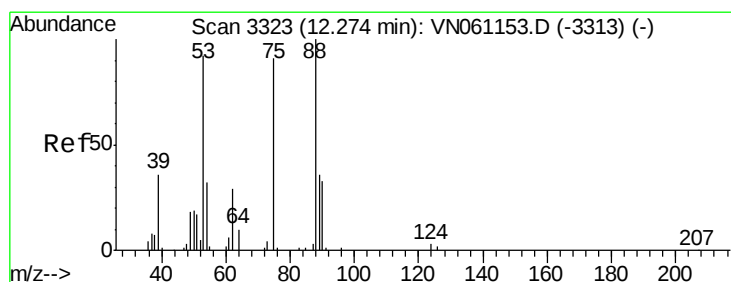
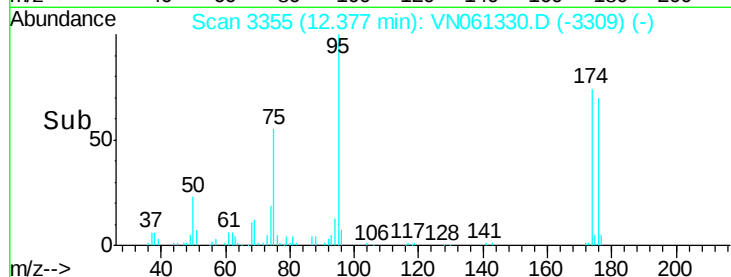
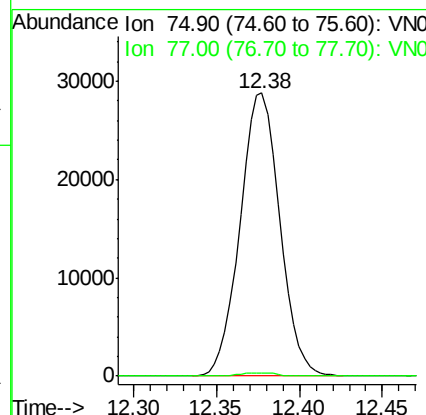
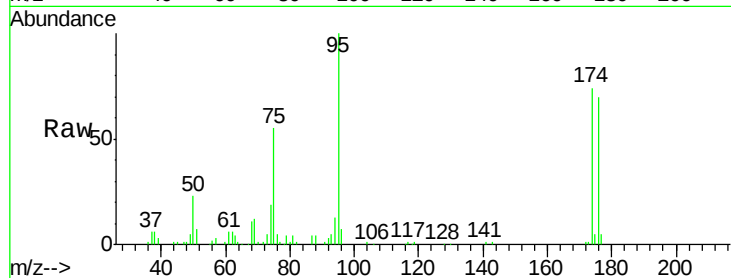




#76
 1,2,3-Trichloropropane
 Concen: 29.677 ug/l
 RT: 12.38 min Scan# 3355
 Delta R.T. -0.15 min
 Lab File: VN061330.D
 Acq: 7 May 2020 13:47

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 48057
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.364 ug/l
 RT: 12.38 min Scan# 3355
 Delta R.T. 0.10 min
 Lab File: VN061330.D
 Acq: 7 May 2020 13:47

Tgt Ion: 75 Resp: 48057
 Ion Ratio Lower Upper
 75 100
 53 0.0 84.1 126.1#
 89 0.0 35.2 52.8#

