

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN033020\
 Data File : VN060769.D
 Acq On : 30 Mar 2020 14:41
 Operator : JC/MD
 Sample : L2043-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 31 07:59:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	201248	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	335991	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	313114	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	142768	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	128464	46.50	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	93.00%	
35) Dibromofluoromethane	7.56	113	97888	48.18	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.36%	
50) Toluene-d8	10.08	98	416421	50.18	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.36%	
62) 4-Bromofluorobenzene	12.40	95	153781	50.56	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.12%	

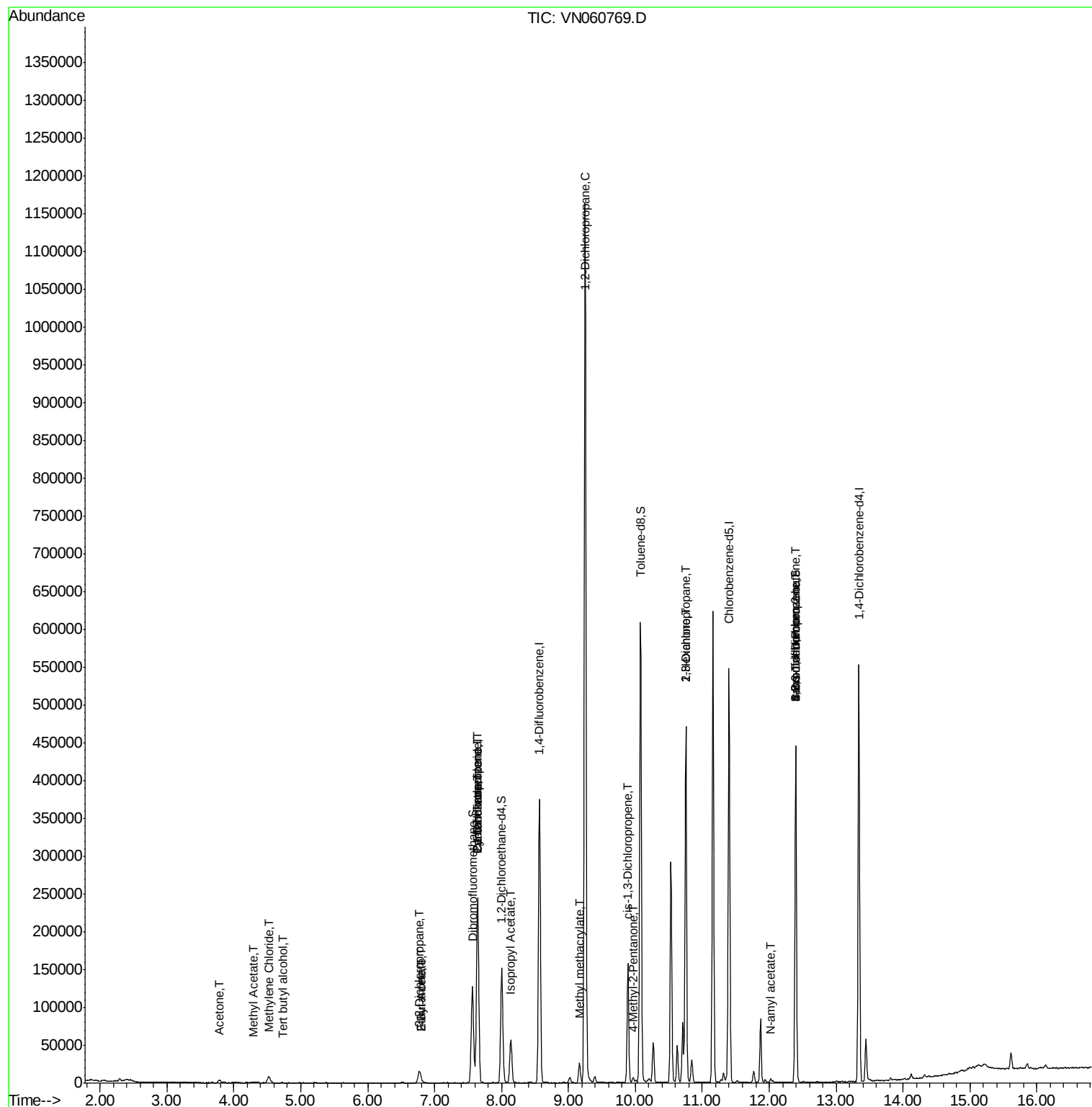
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	350	0.861	ug/l #	72
16) Acetone	3.79	43	6662	6.808	ug/l	99
18) Methyl Acetate	4.29	43	2307	0.838	ug/l #	69
20) Methylene Chloride	4.52	84	6316	2.624	ug/l	94
25) 2-Butanone	6.81	43	3292	2.079	ug/l	97
26) 2,2-Dichloropropane	6.77	77	728	0.210	ug/l #	53
31) Cyclohexane	7.64	56	4309	0.968	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15579	4.788	ug/l #	49
37) Ethyl Acetate	6.81	43	3292	0.936	ug/l #	70
38) Carbon Tetrachloride	7.64	117	19139	6.564	ug/l #	16
43) Isopropyl Acetate	8.14	43	69700	12.022	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1354	0.522	ug/l #	43
48) Methyl methacrylate	9.16	41	3913	1.516	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	5681	1.722	ug/l #	86
54) cis-1,3-Dichloropropene	9.89	75	28104	6.850	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	4620	1.167	ug/l #	42
59) 2-Hexanone	10.75	43	69185	29.112	ug/l #	52
71) Bromoform	12.39	173	233	1.801	ug/l #	1
74) N-amyl acetate	12.02	43	4584	0.926	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	77517	25.163	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	77517	64.625	ug/l #	13

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060769.D

Acq: 30 Mar 2020 14:41

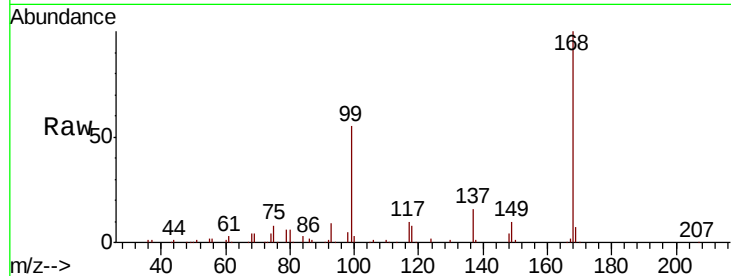
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 201248

Ion Ratio Lower Upper

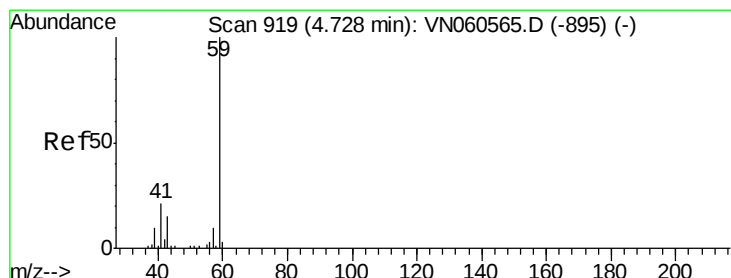
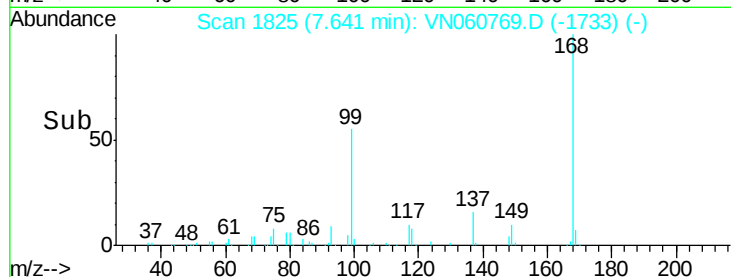
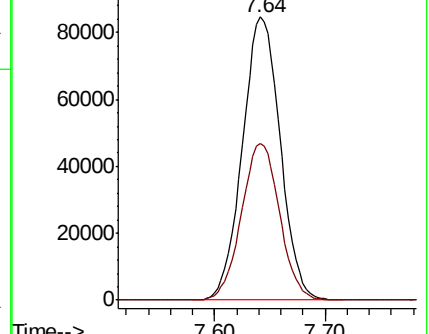
168 100

99 55.4 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 0.861 ug/l

RT: 4.73 min Scan# 919

Delta R.T. 0.00 min

Lab File: VN060769.D

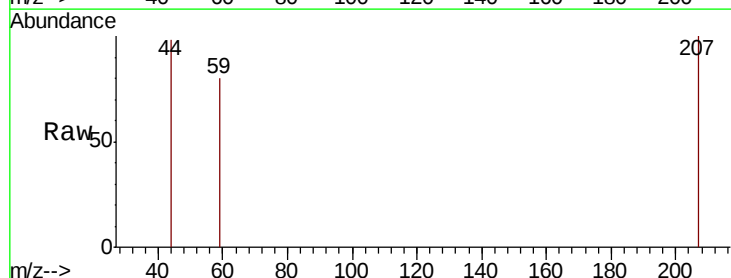
Acq: 30 Mar 2020 14:41

Tgt Ion: 59 Resp: 350

Ion Ratio Lower Upper

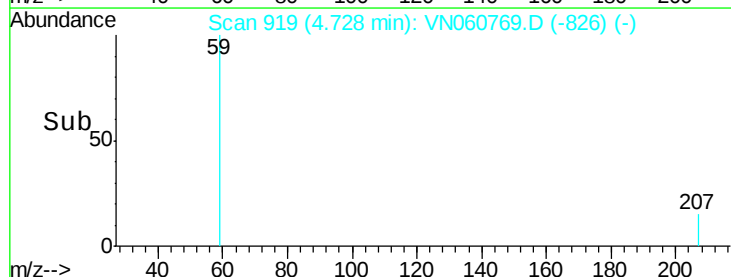
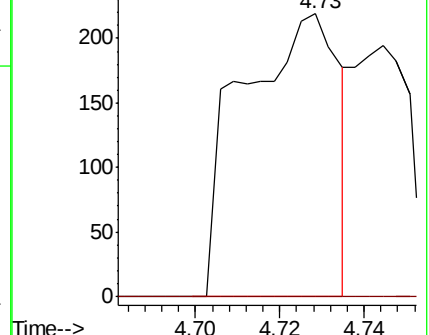
59 100

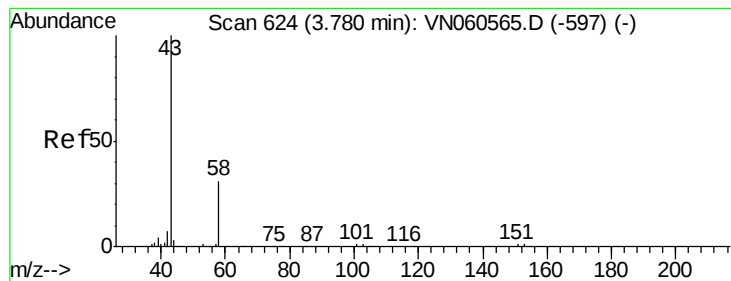
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 6.808 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060769.D

Acq: 30 Mar 2020 14:41

Instrument :

MSVOA_N

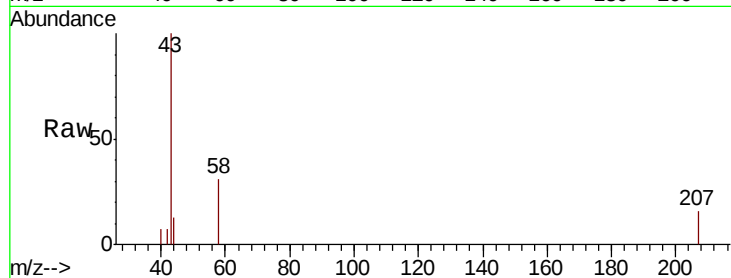
ClientSampleId :

Tot Ion: 43 Resp: 6662

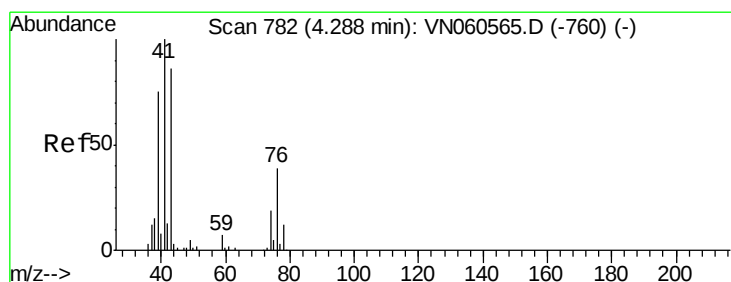
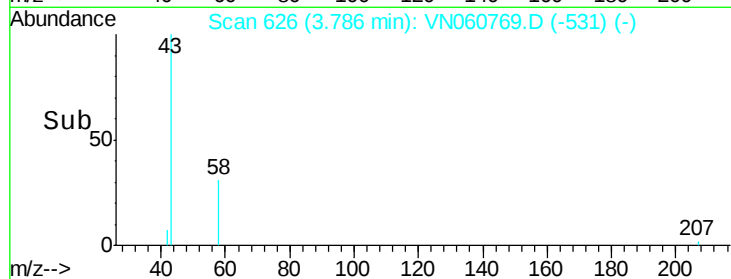
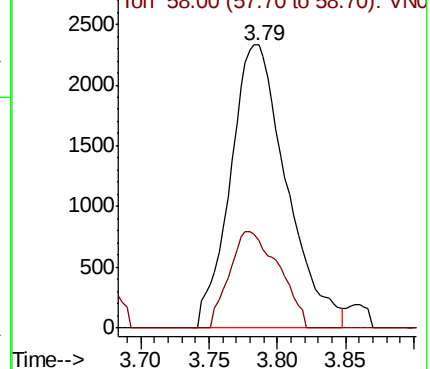
Ion Ratio Lower Upper

43 100

58 30.8 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060769.D (-531) (-)



#18

Methyl Acetate

Concen: 0.838 ug/l

RT: 4.29 min Scan# 782

Delta R.T. 0.00 min

Lab File: VN060769.D

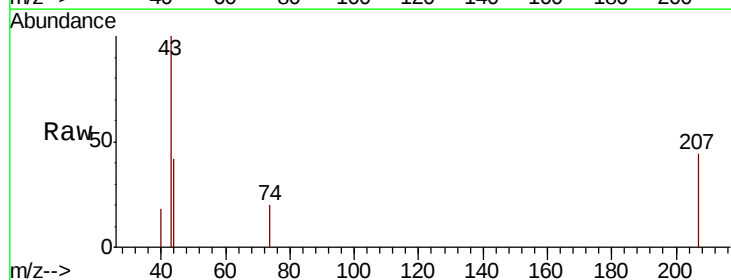
Acq: 30 Mar 2020 14:41

Tgt Ion: 43 Resp: 2307

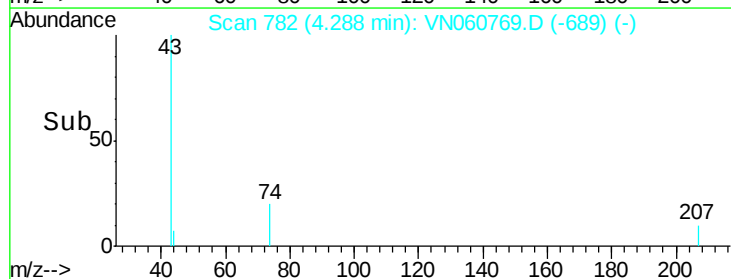
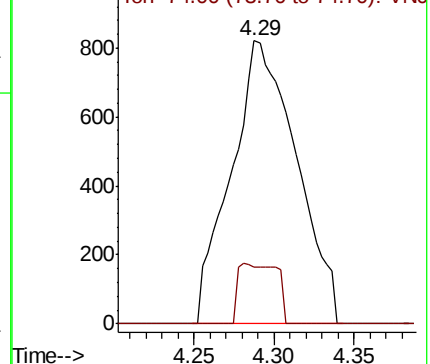
Ion Ratio Lower Upper

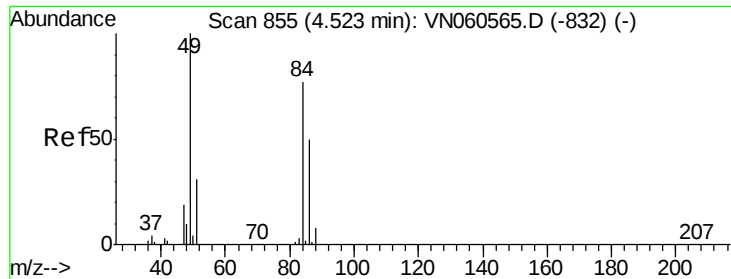
43 100

74 7.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN060769.D (-689) (-)





#20

Methvlene Chloride

Concen: 2.624 ug/l

RT: 4.52 min Scan# 854

Delta R.T. -0.00 min

Lab File: VN060769.D

Acq: 30 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 84 Resp: 6316

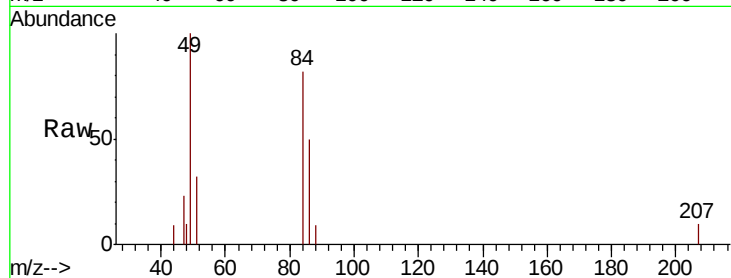
Ion Ratio Lower Upper

84 100

49 121.3 103.3 154.9

51 39.1 31.6 47.4

86 60.3 52.0 78.0

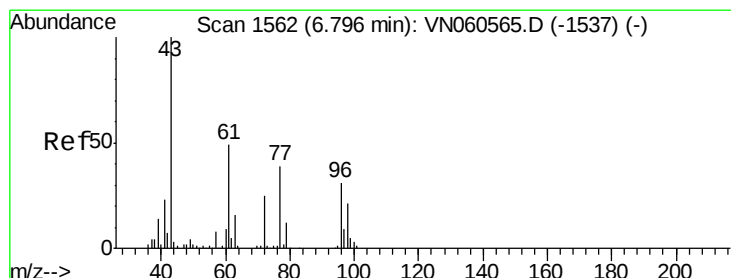
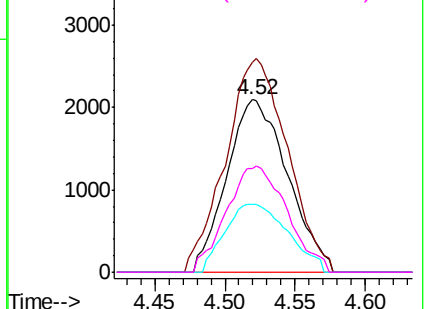
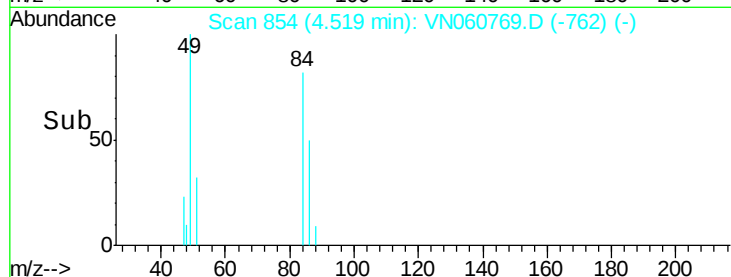


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 2.079 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VN060769.D

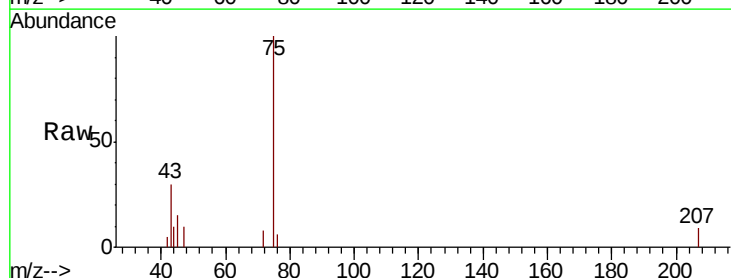
Acq: 30 Mar 2020 14:41

Tgt Ion: 43 Resp: 3292

Ion Ratio Lower Upper

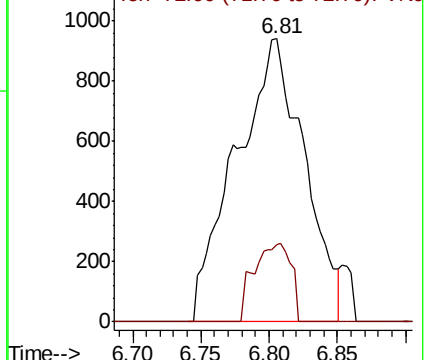
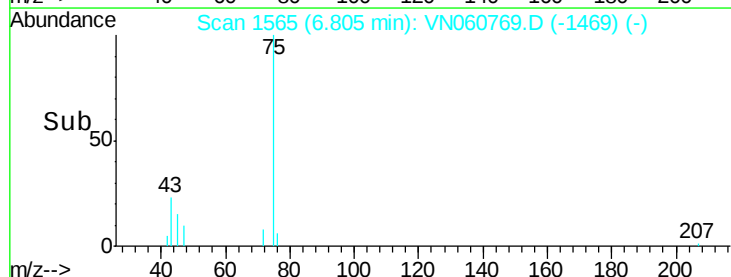
43 100

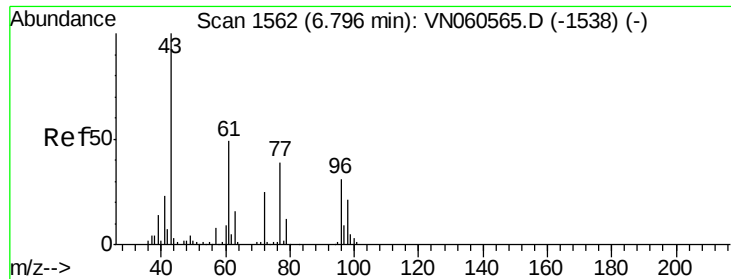
72 27.2 20.4 30.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

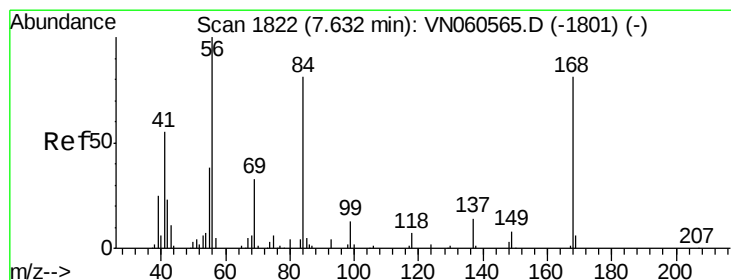
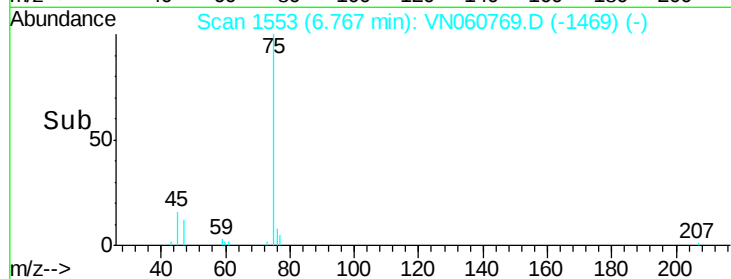
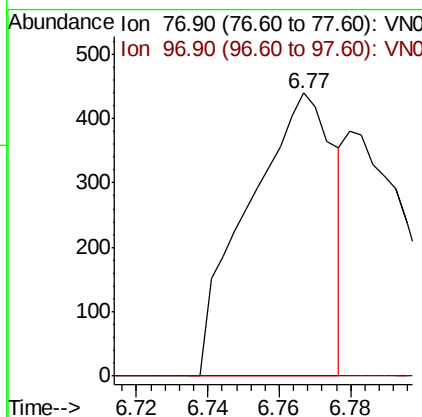
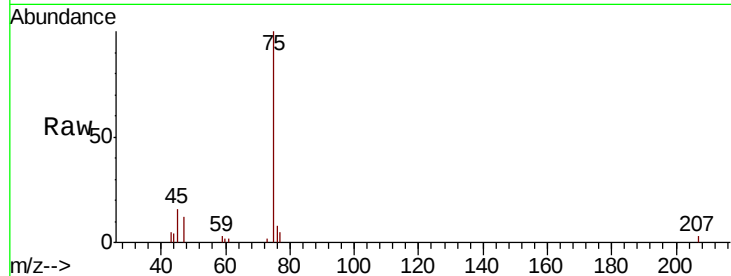




#26
 2,2-Dichloropropane
 Concen: 0.210 ug/l
 RT: 6.77 min Scan# 1553
 Delta R.T. -0.03 min
 Lab File: VN060769.D
 Acq: 30 Mar 2020 14:41

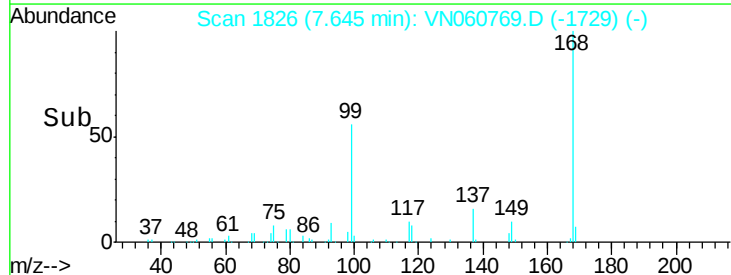
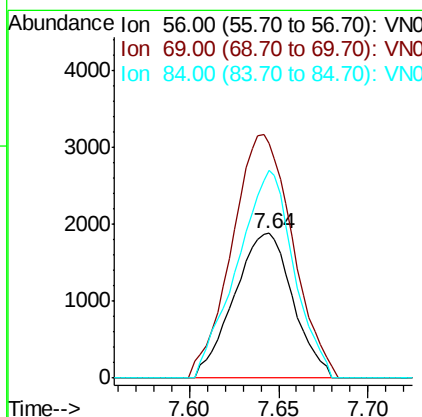
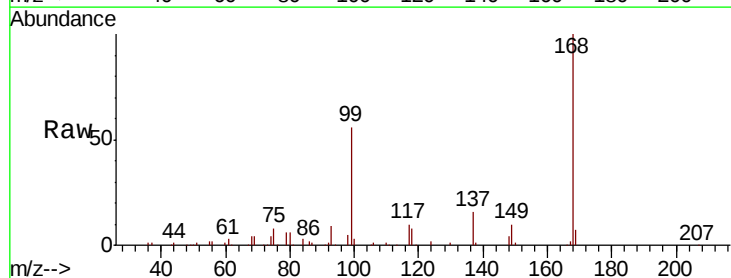
Instrument :
 MSVOA_N
 ClientSampled :

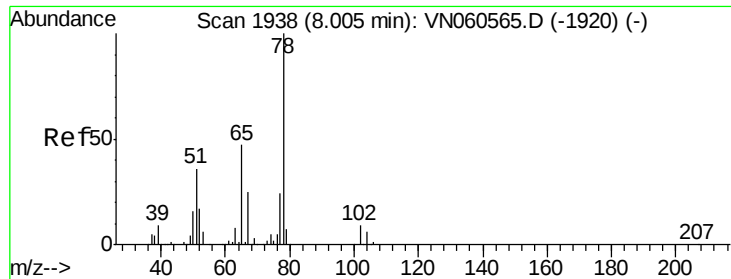
Tot Ion: 77 Resp: 728
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.4 34.1#



#31
 Cyclohexane
 Concen: 0.968 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. 0.01 min
 Lab File: VN060769.D
 Acq: 30 Mar 2020 14:41

Tgt Ion: 56 Resp: 4309
 Ion Ratio Lower Upper
 56 100
 69 161.9 26.6 40.0#
 84 143.4 64.3 96.5#

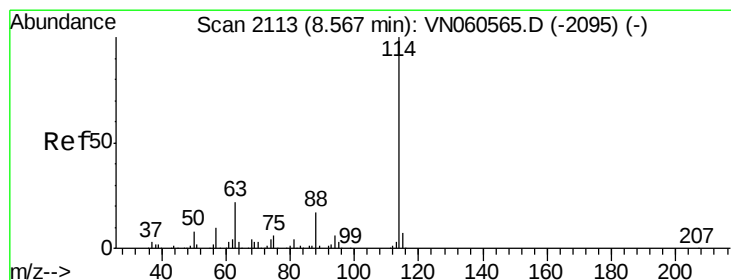
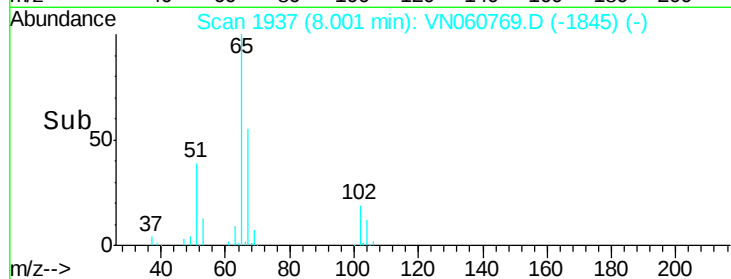
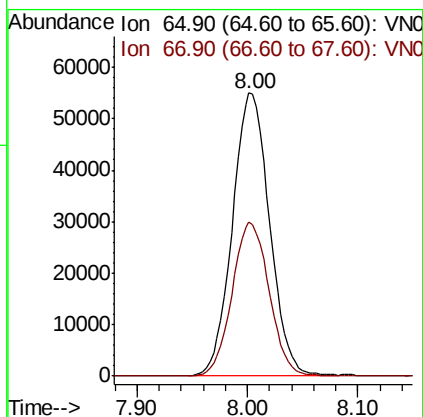
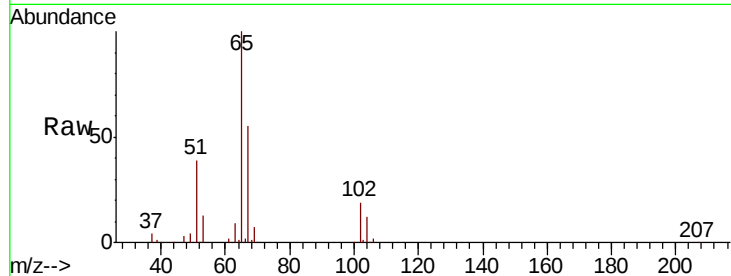




#33
 1,2-Dichloroethane-d4
 Concen: 46.500 ug/l
 RT: 8.00 min Scan# 1937
 Delta R.T. -0.00 min
 Lab File: VN060769.D
 Acq: 30 Mar 2020 14:41

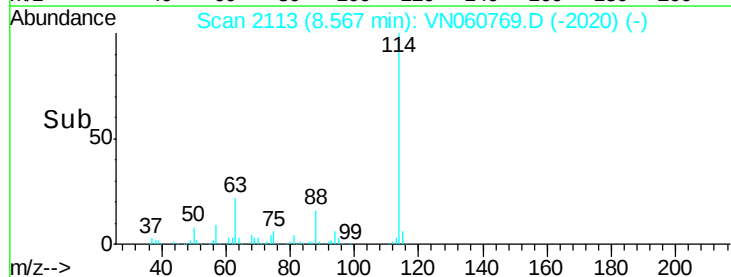
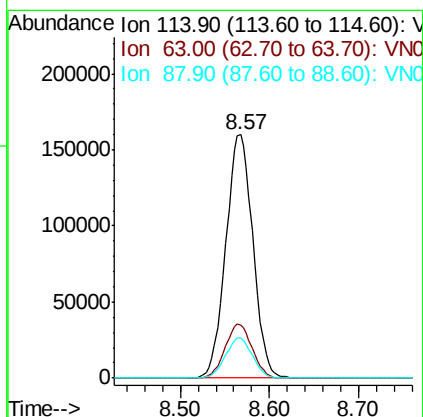
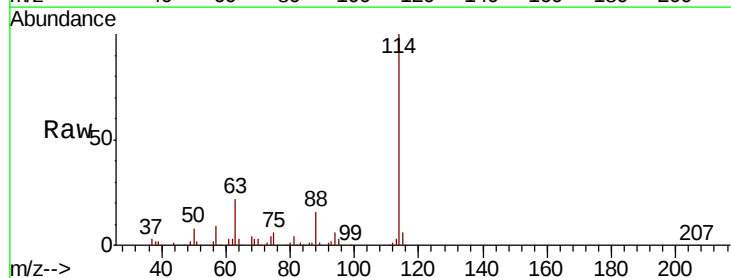
Instrument :
 MSVOA_N
 ClientSampleId :

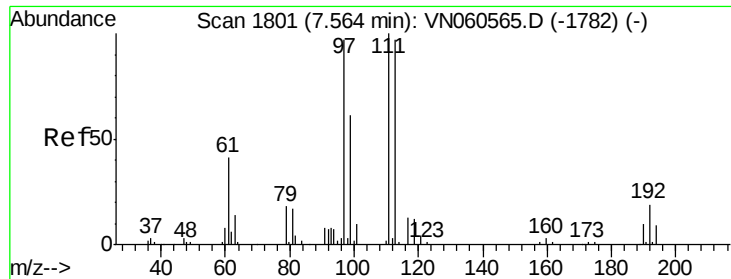
Tot Ion: 65 Resp: 128464
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060769.D
 Acq: 30 Mar 2020 14:41

Tgt Ion: 114 Resp: 335991
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 43.8
 88 16.3 0.0 33.0

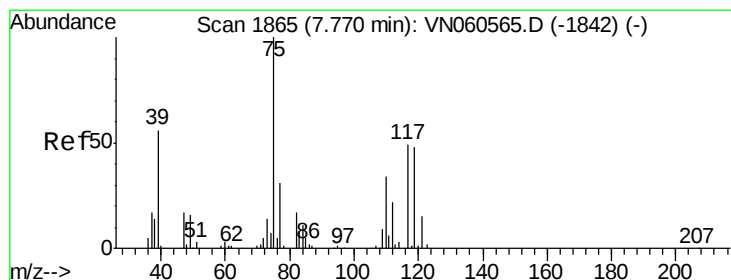
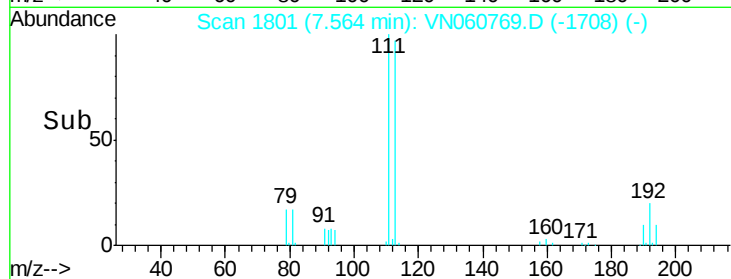
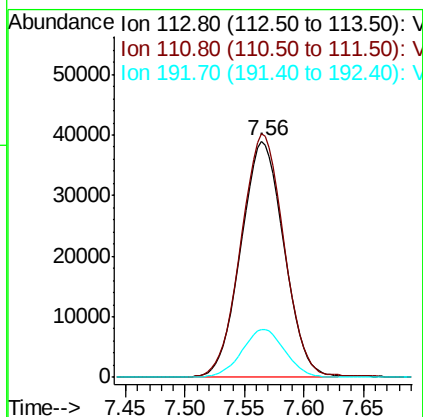
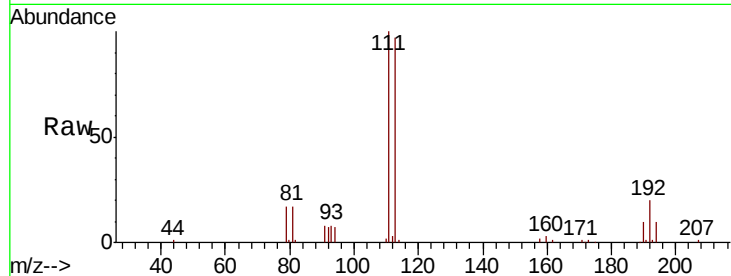




#35
 Dibromofluoromethane
 Concen: 48.182 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN060769.D
 Acq: 30 Mar 2020 14:41

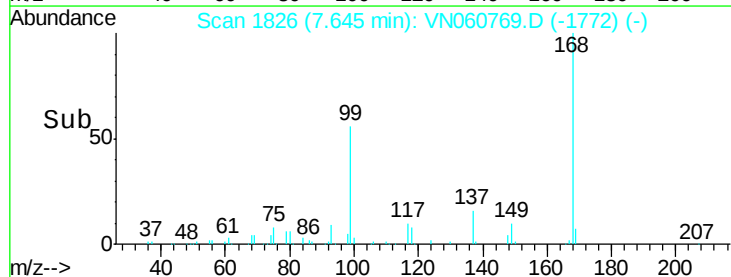
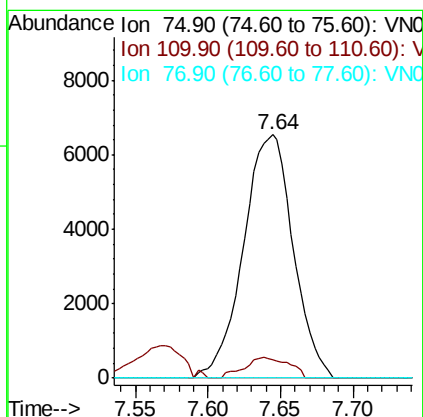
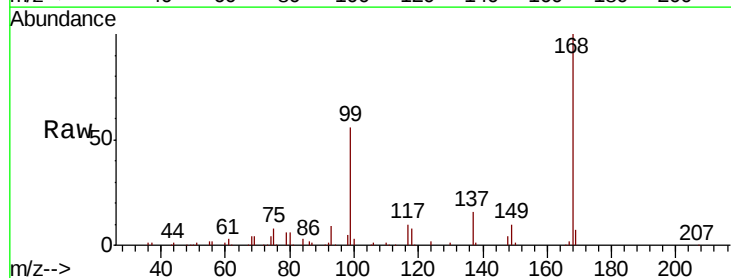
Instrument :
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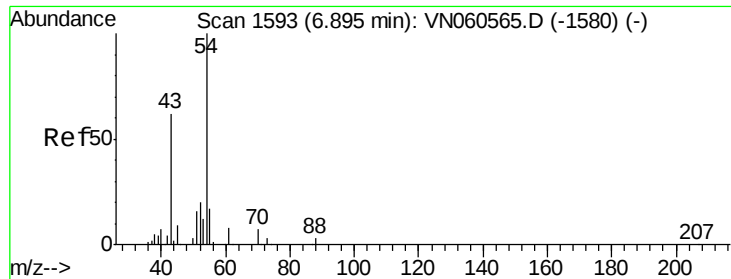
Tot Ion:113 Resp: 97888
 Ion Ratio Lower Upper
 113 100
 111 103.7 82.9 124.3
 192 20.2 15.8 23.8



#36
 1,1-Dichloropropene
 Concen: 4.788 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060769.D
 Acq: 30 Mar 2020 14:41

Tgt Ion: 75 Resp: 15579
 Ion Ratio Lower Upper
 75 100
 110 7.7 16.9 50.6#
 77 0.0 24.6 36.8#

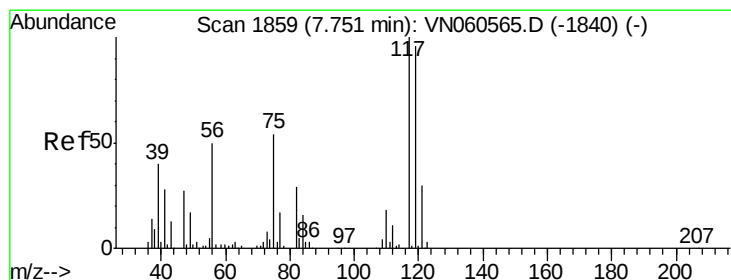
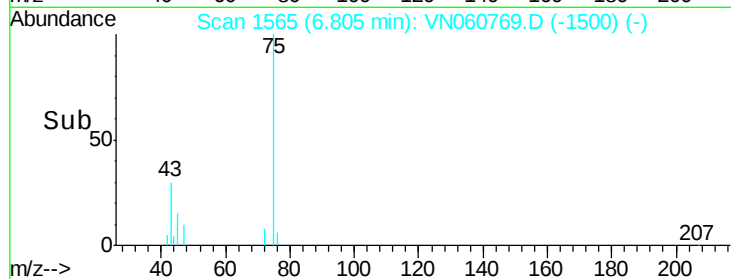
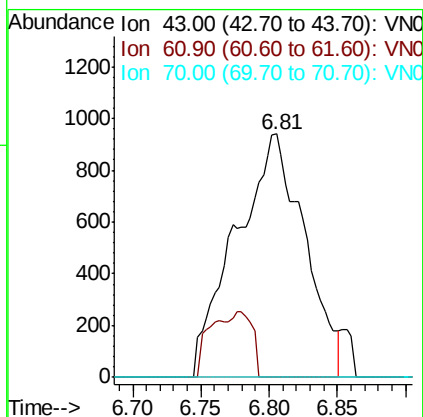
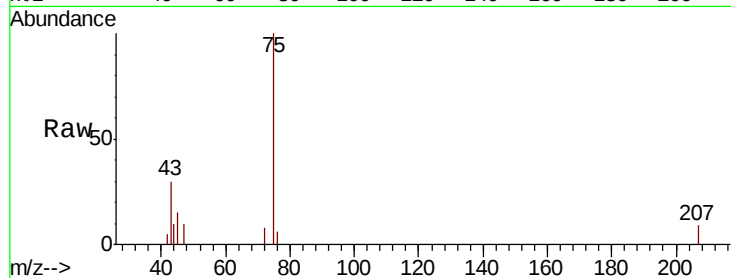




#37
Ethyl Acetate
Concen: 0.936 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. -0.09 min
Lab File: VN060769.D
Acq: 30 Mar 2020 14:41

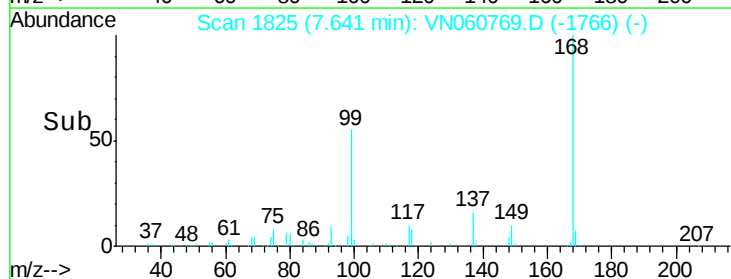
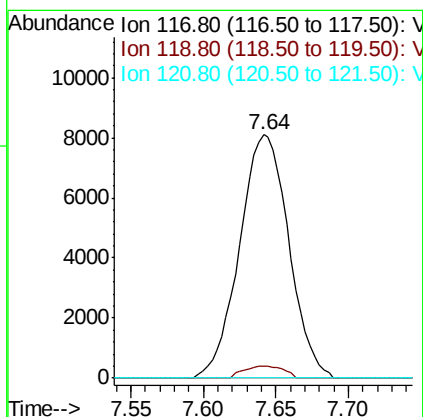
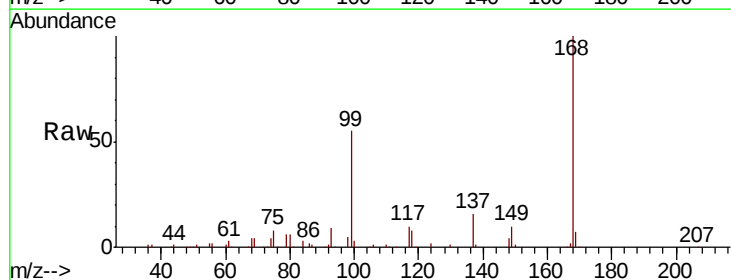
Instrument :
MSVOA_N
ClientSampleId :

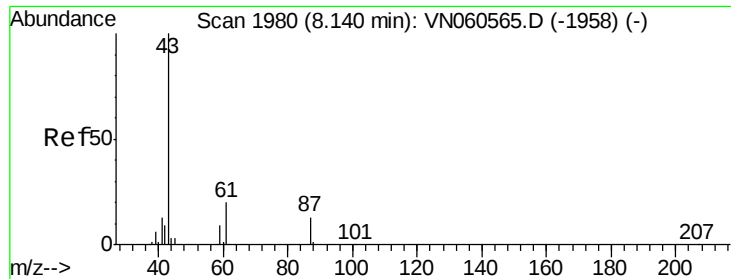
Tot Ion: 43 Resp: 3292
Ion Ratio Lower Upper
43 100
61 0.0 10.6 15.8#
70 0.0 7.9 11.9#



#38
Carbon Tetrachloride
Concen: 6.564 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060769.D
Acq: 30 Mar 2020 14:41

Tgt Ion: 117 Resp: 19139
Ion Ratio Lower Upper
117 100
119 4.9 76.2 114.2#
121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 12.022 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. -0.00 min

Lab File: VN060769.D

Acq: 30 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

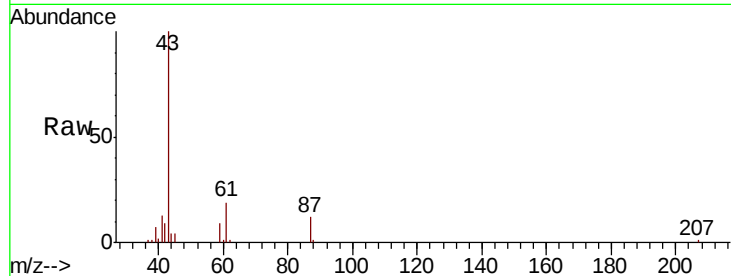
Tot Ion: 43 Resp: 69700

Ion Ratio Lower Upper

43 100

61 19.7 20.7 31.1#

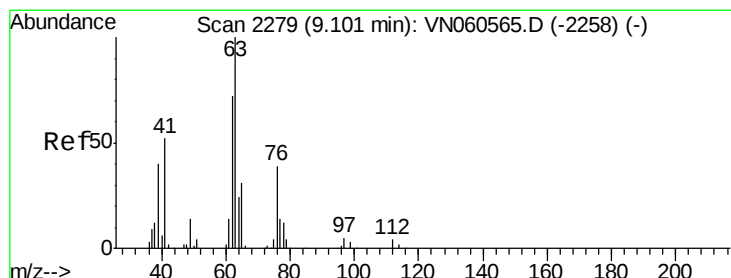
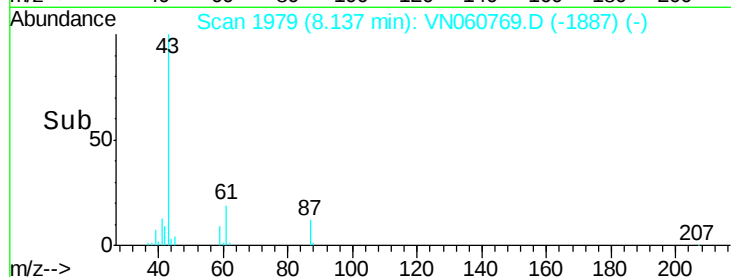
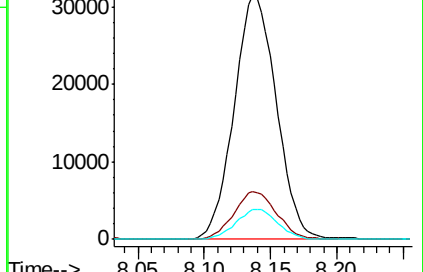
87 12.0 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN060769.D (-1958) (-)

Ion 61.00 (60.70 to 61.70): VN060769.D (-1958) (-)

Ion 87.00 (86.70 to 87.70): VN060769.D (-1958) (-)



#45

1,2-Dichloropropane

Concen: 0.522 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060769.D

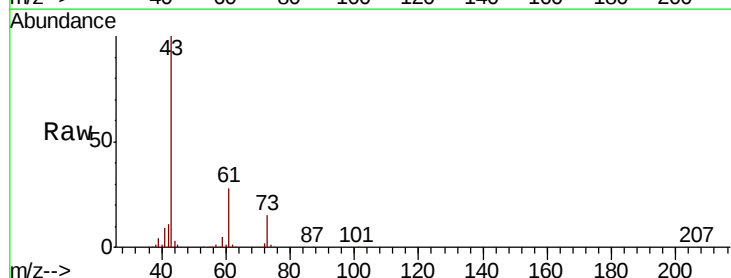
Acq: 30 Mar 2020 14:41

Tgt Ion: 63 Resp: 1354

Ion Ratio Lower Upper

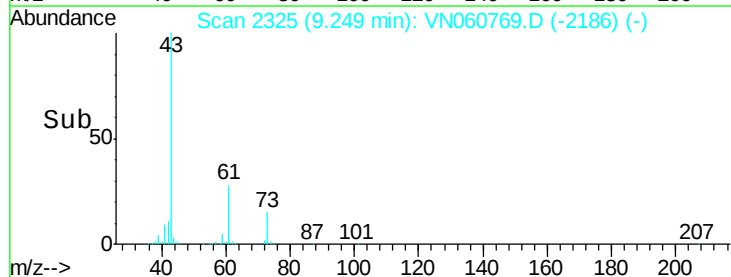
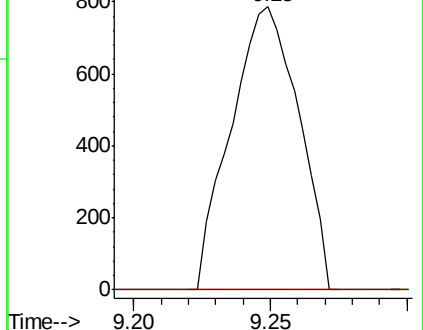
63 100

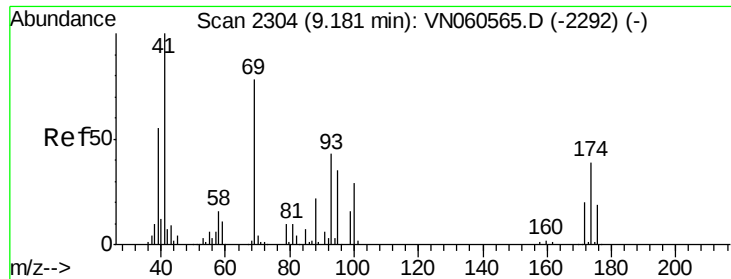
65 0.0 25.4 38.0#



Abundance Ion 62.90 (62.60 to 63.60): VN060769.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060769.D (-2186) (-)

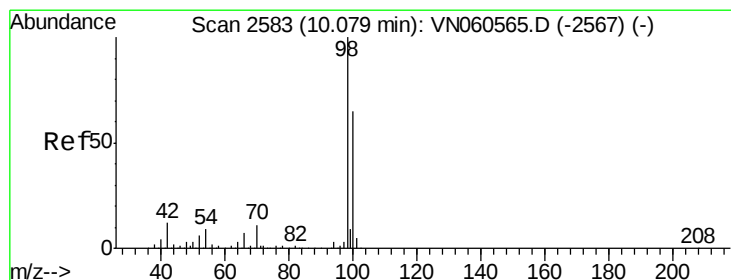
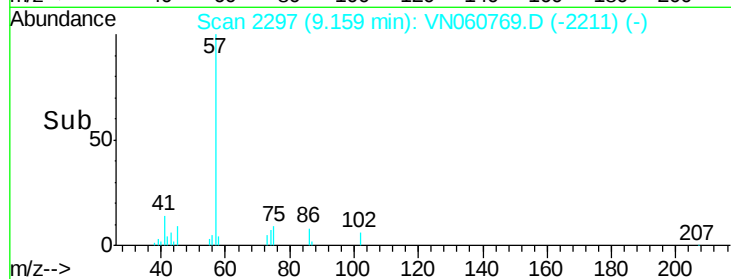
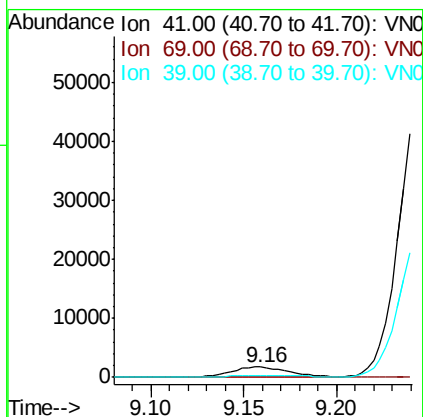
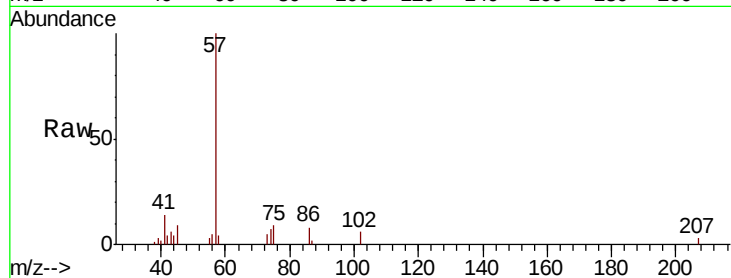




#48
Methvl methacrylate
Concen: 1.516 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060769.D
Acq: 30 Mar 2020 14:41

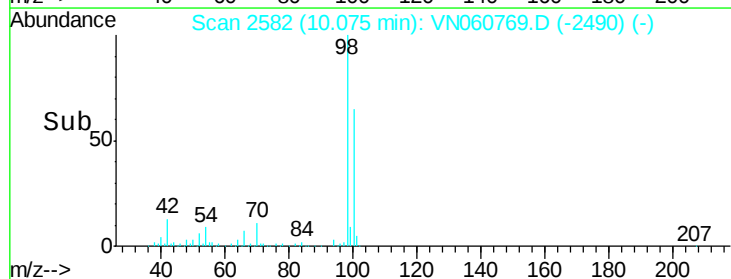
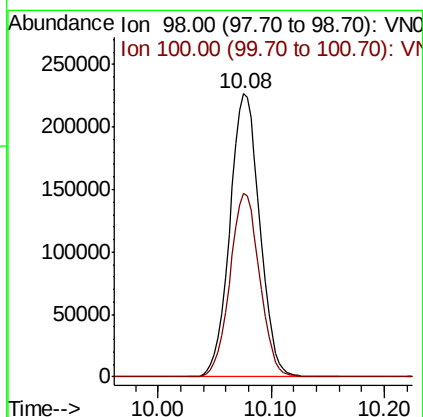
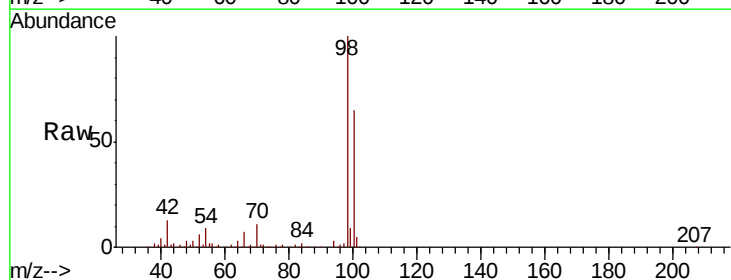
Instrument :
MSVOA_N
ClientSampled :

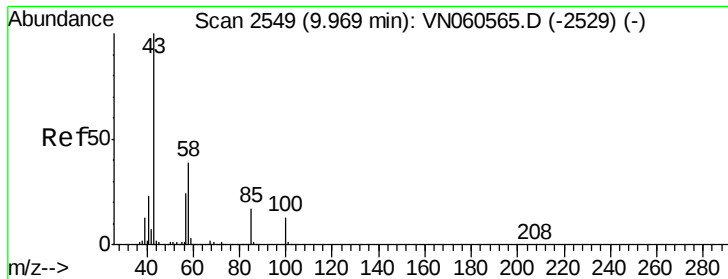
Tot Ion: 41 Resp: 3913
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 50.181 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060769.D
Acq: 30 Mar 2020 14:41

Tgt Ion: 98 Resp: 416421
Ion Ratio Lower Upper
98 100
100 64.5 51.8 77.8





#51

4-Methyl-2-Pentanone

Concen: 1.722 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060769.D

Acq: 30 Mar 2020 14:41

Instrument :

MSVOA_N

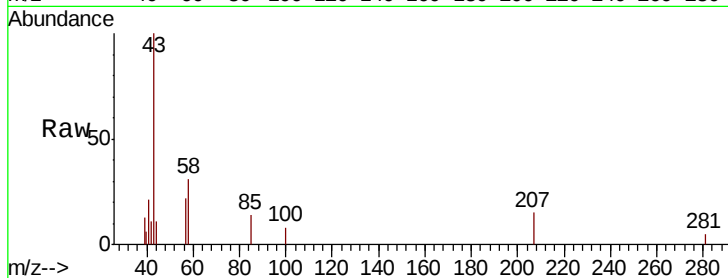
ClientSampled :

Tot Ion: 43 Resp: 5681

Ion Ratio Lower Upper

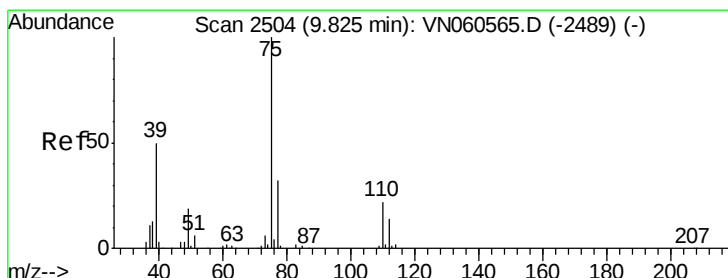
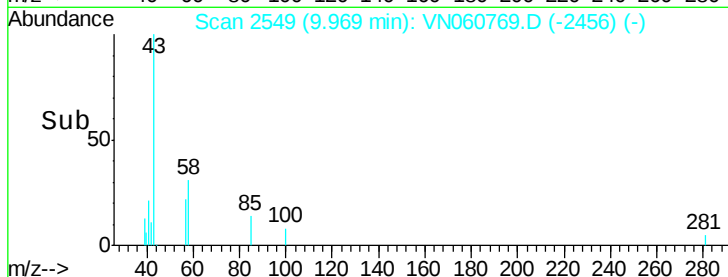
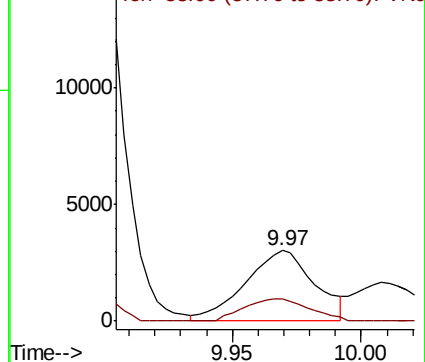
43 100

58 29.7 30.8 46.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.850 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060769.D

Acq: 30 Mar 2020 14:41

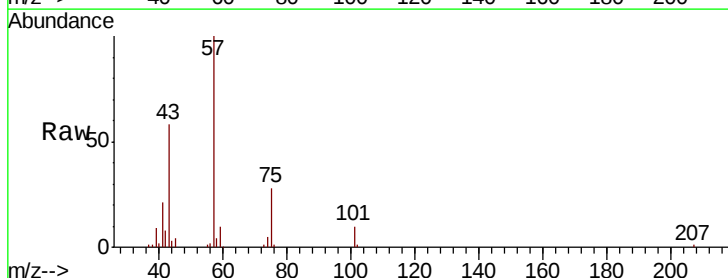
Tgt Ion: 75 Resp: 28104

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

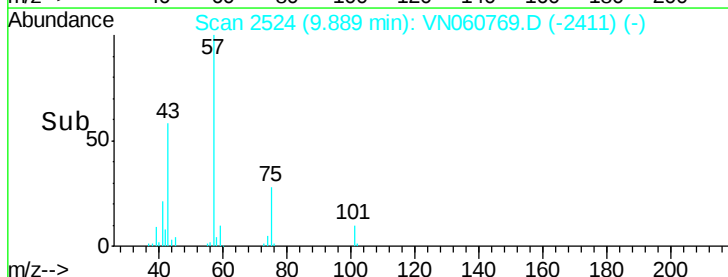
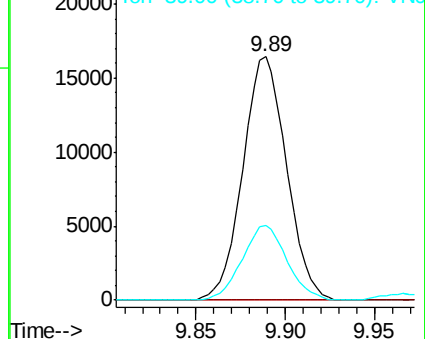
39 30.7 40.2 60.4#

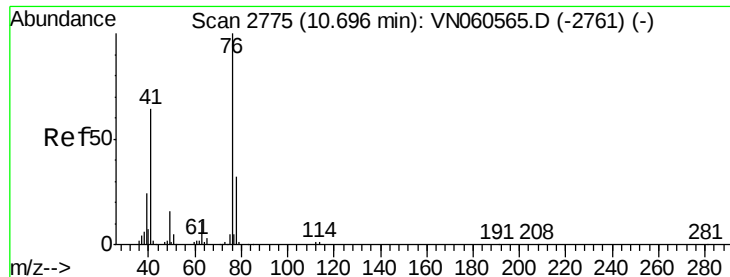


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

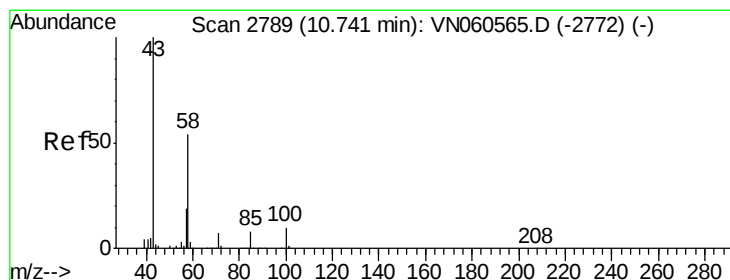
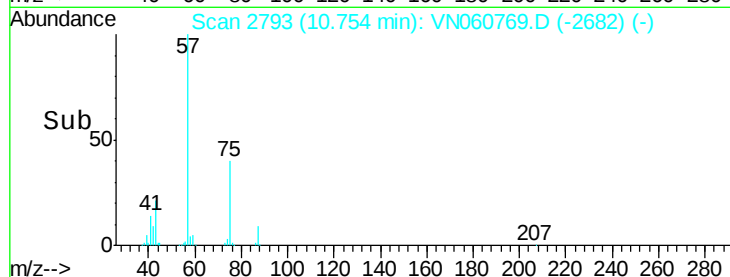
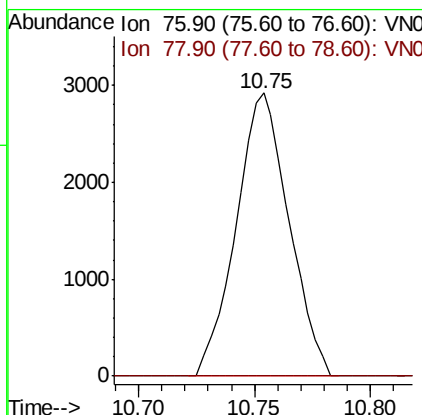
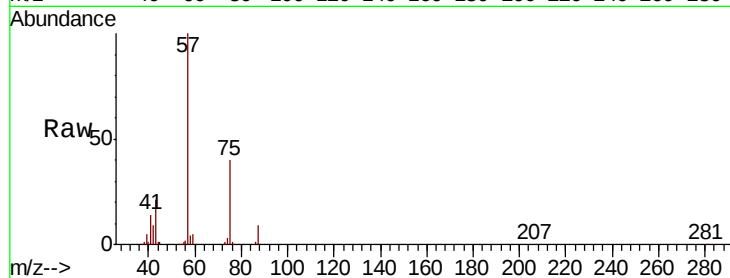




#57
 1,3-Dichloropropane
 Concen: 1.167 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060769.D
 Acq: 30 Mar 2020 14:41

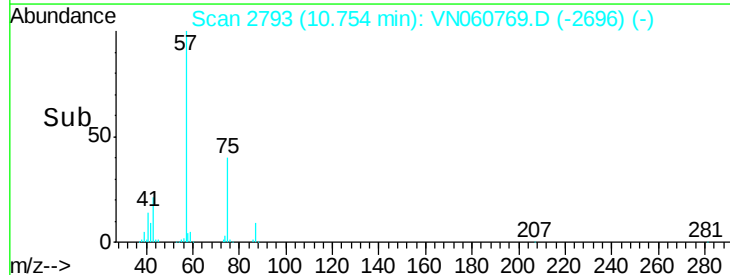
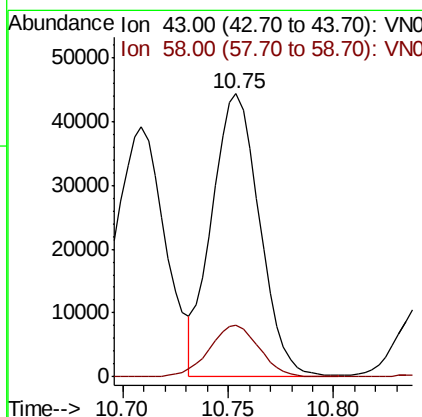
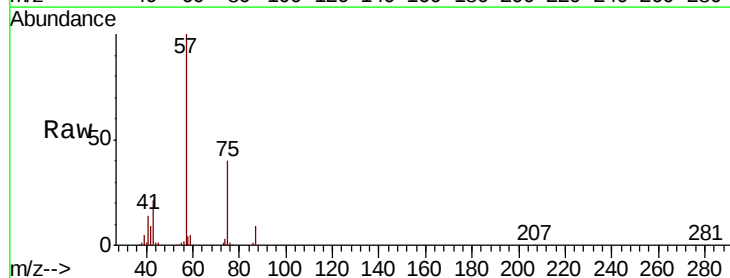
Instrument :
 MSVOA_N
 ClientSampleId :

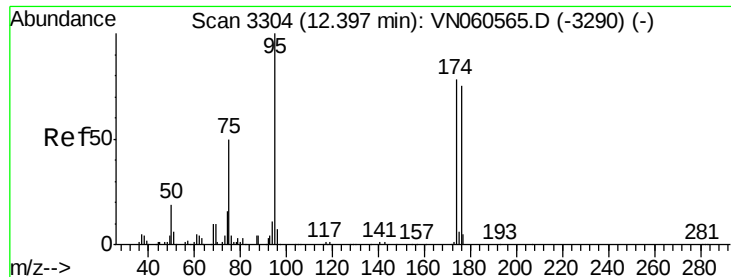
Tot Ion: 76 Resp: 4620
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 29.112 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060769.D
 Acq: 30 Mar 2020 14:41

Tgt Ion: 43 Resp: 69185
 Ion Ratio Lower Upper
 43 100
 58 19.0 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 50.565 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060769.D

Acq: 30 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

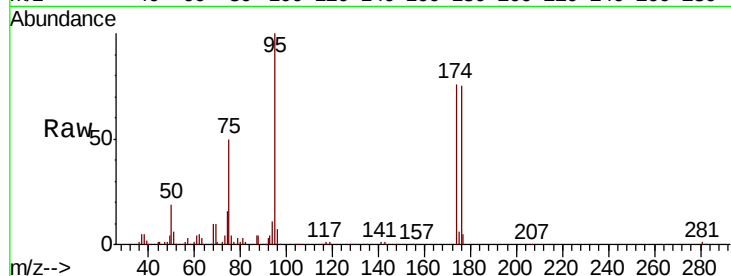
Tot Ion: 95 Resp: 153781

Ion Ratio Lower Upper

95 100

174 77.3 0.0 157.6

176 75.0 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060769.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060769.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060769.D (-3290) (-)

120000

100000

80000

60000

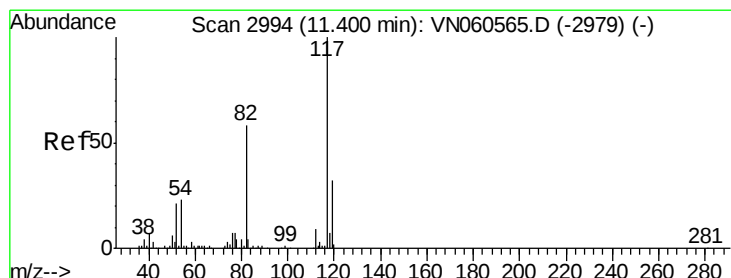
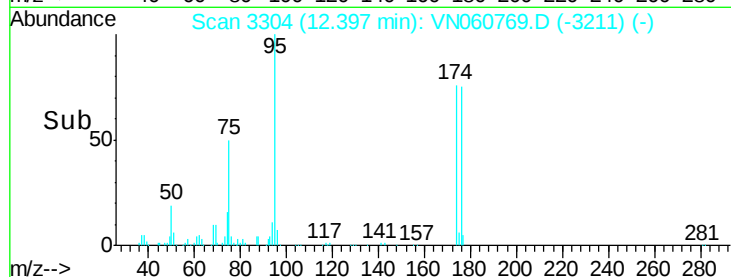
40000

20000

0

12.30 12.35 12.40 12.45

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060769.D

Acq: 30 Mar 2020 14:41

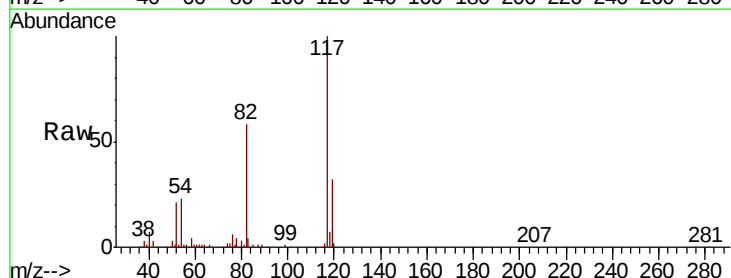
Tgt Ion: 117 Resp: 313114

Ion Ratio Lower Upper

117 100

82 57.5 46.7 70.1

119 31.7 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN060769.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060769.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060769.D (-2979) (-)

250000

200000

150000

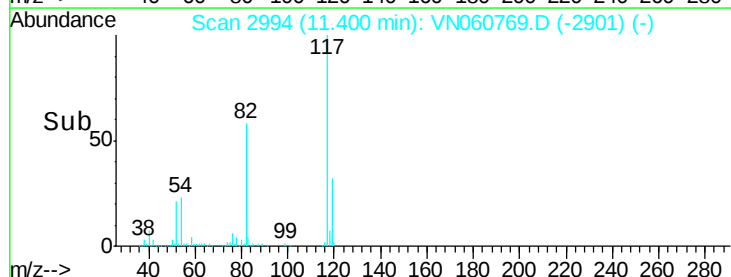
100000

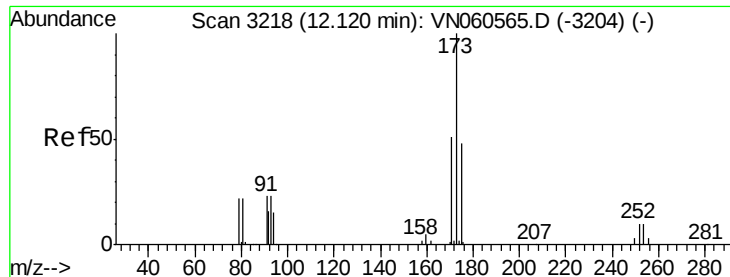
50000

0

11.30 11.40 11.50

Time-->





#71

Bromoform

Concen: 1.801 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.27 min

Lab File: VN060769.D

Acq: 30 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampled :

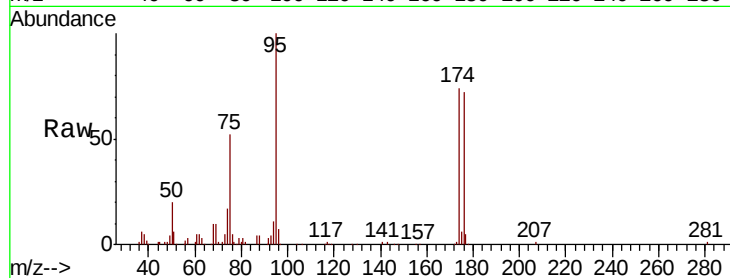
Tot Ion:173 Resp: 233

Ion Ratio Lower Upper

173 100

175 3294.0 24.1 72.4#

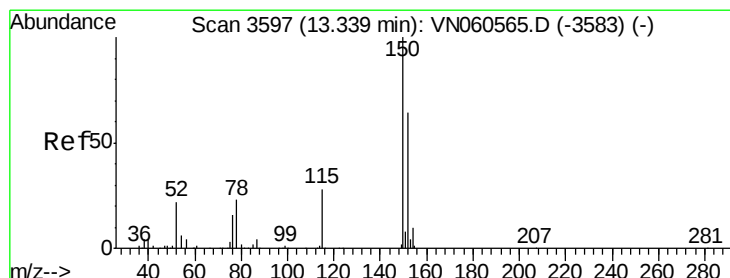
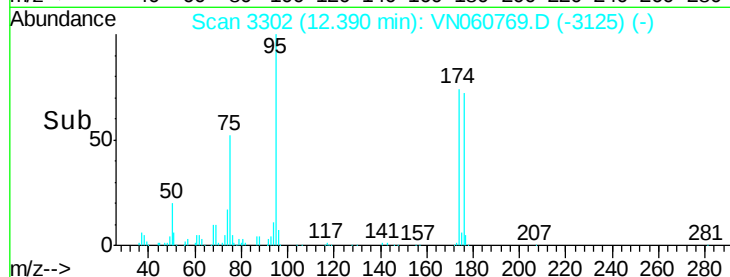
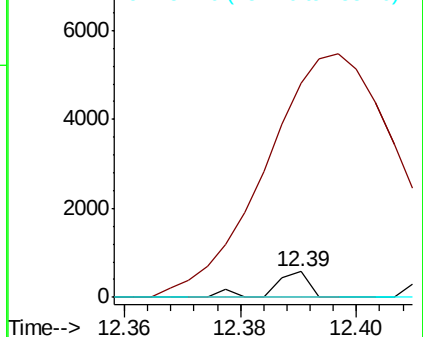
254 0.0 0.0 0.0



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: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060769.D

Acq: 30 Mar 2020 14:41

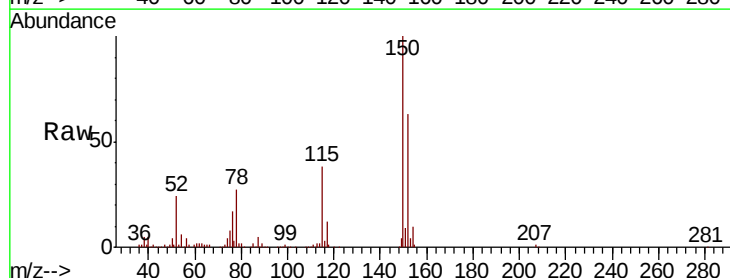
Tgt Ion:152 Resp: 142768

Ion Ratio Lower Upper

152 100

115 60.4 30.2 90.6

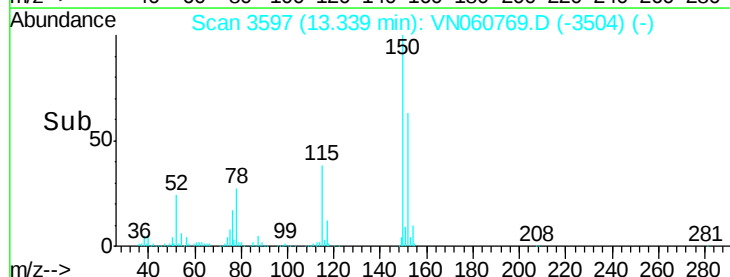
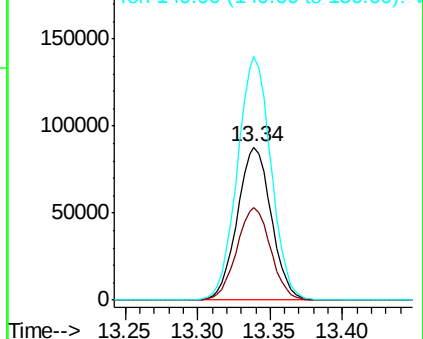
150 157.8 0.0 350.2

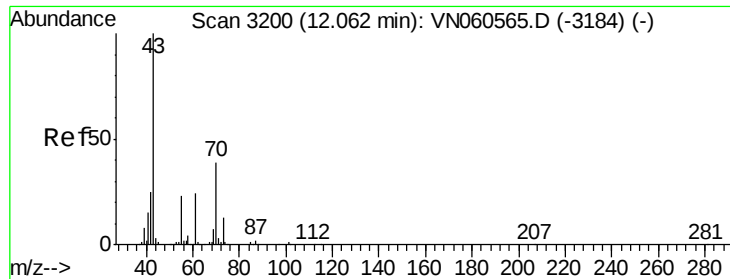


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.926 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060769.D

Acq: 30 Mar 2020 14:41

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 4584

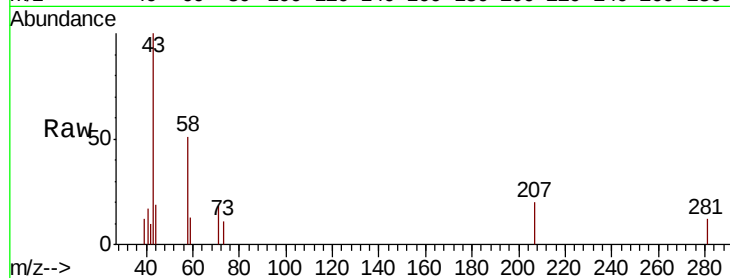
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

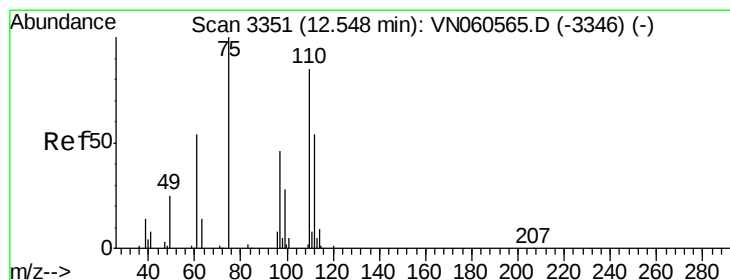
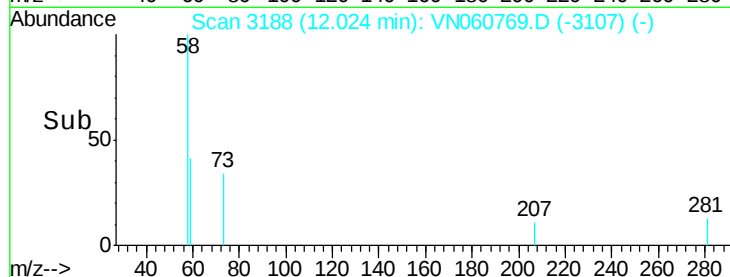
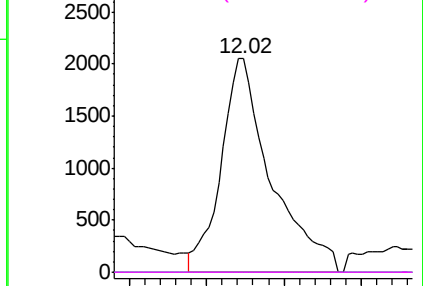


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 25.163 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060769.D

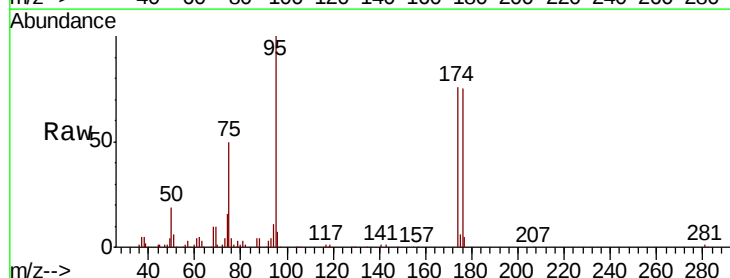
Acq: 30 Mar 2020 14:41

Tgt Ion: 75 Resp: 77517

Ion Ratio Lower Upper

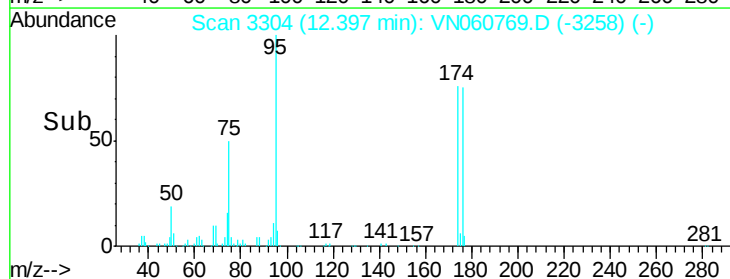
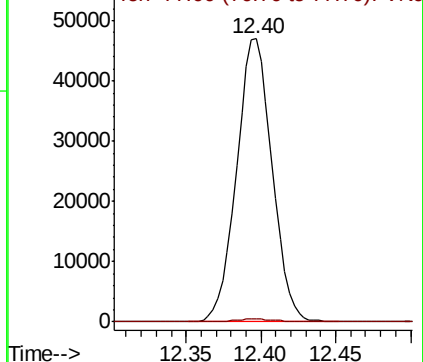
75 100

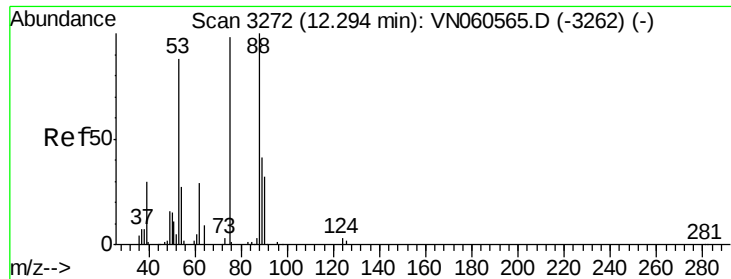
77 1.0 0.0 0.0#



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: 64.625 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060769.D
 Acq: 30 Mar 2020 14:41

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 77517
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.0 109.4#
 89 0.0 34.8 52.2#

