

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN022420\
 Data File : VN060205.D
 Acq On : 24 Feb 2020 13:23
 Operator : JC/MD
 Sample : L1603-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HAM-WC-S-SB-010203

Quant Time: Feb 24 15:49:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	180876	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	279956	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	263545	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	120322	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	104982	47.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.40%	
35) Dibromofluoromethane	7.57	113	84602	49.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.32%	
50) Toluene-d8	10.08	98	341531	50.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.80%	
62) 4-Bromofluorobenzene	12.40	95	122664	49.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.52%	

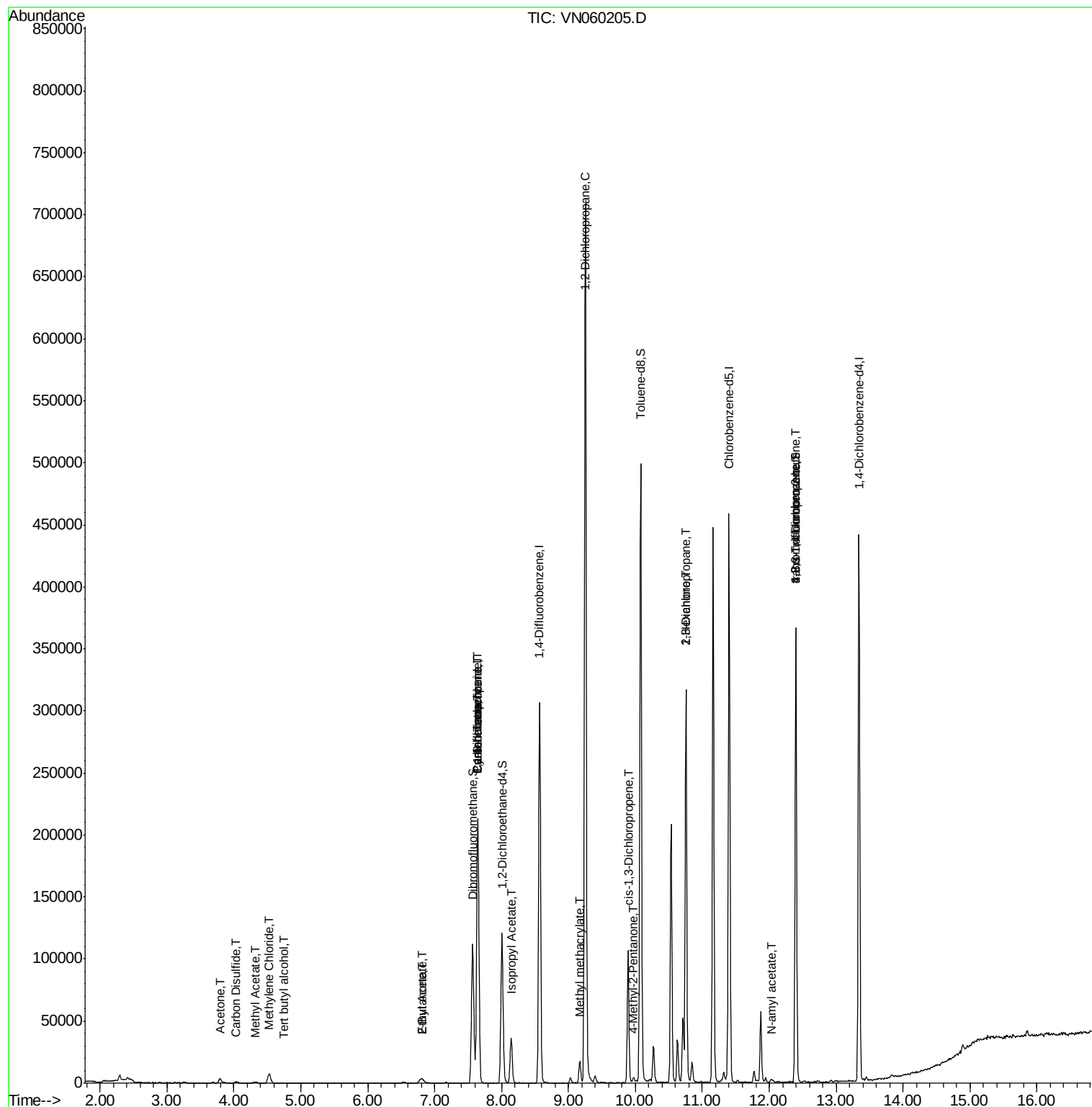
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	66	0.20	ug/l #	72
16) Acetone	3.79	43	6742	7.02	ug/l	96
17) Carbon Disulfide	4.03	76	1996	0.39	ug/l #	76
18) Methyl Acetate	4.31	43	722	0.40	ug/l #	50
20) Methylene Chloride	4.54	84	6077	3.17	ug/l	96
25) 2-Butanone	6.81	43	5742	4.76	ug/l #	83
31) Cyclohexane	7.64	56	3352	1.08	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	12841	4.95	ug/l #	49
37) Ethyl Acetate	6.81	43	5742	2.45	ug/l #	68
38) Carbon Tetrachloride	7.64	117	17113	6.08	ug/l #	14
43) Isopropyl Acetate	8.14	43	43693	10.91	ug/l #	89
45) 1,2-Dichloropropane	9.26	63	798	0.42	ug/l #	43
48) Methyl methacrylate	9.16	41	2801	1.56	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	3026	1.30	ug/l #	87
54) cis-1,3-Dichloropropene	9.89	75	19386	5.96	ug/l #	61
57) 1,3-Dichloropropane	10.75	76	3303	1.04	ug/l #	43
59) 2-Hexanone	10.75	43	46810	26.13	ug/l #	52
74) N-amyl acetate	12.02	43	2379	0.73	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	63049	27.39	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	63049	67.06	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.46	75	59	Below Cal	#	1

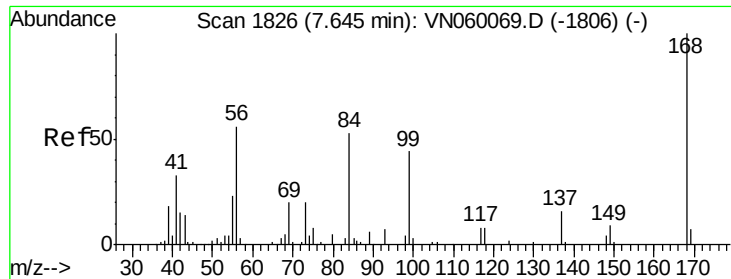
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060205.D

Acq: 24 Feb 2020 13:23

Instrument :

MSVOA_N

ClientSampleId :

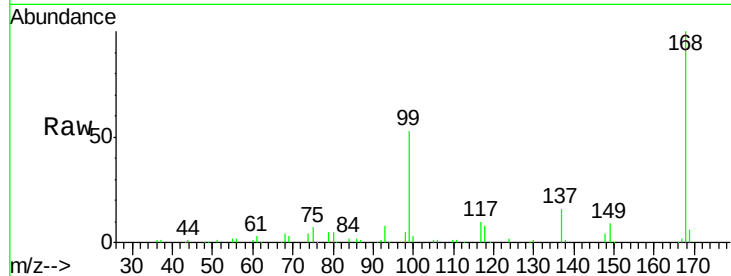
HAM-WC-S-SB-010203

Tgt Ion:168 Resp: 180876

Ion Ratio Lower Upper

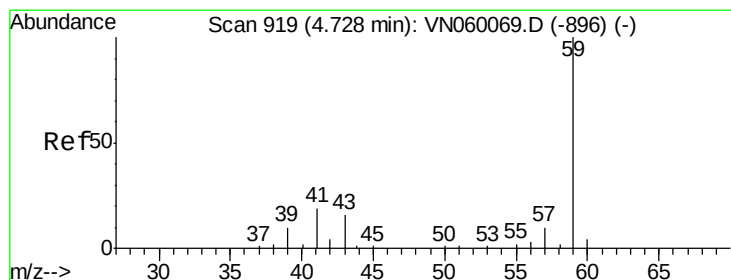
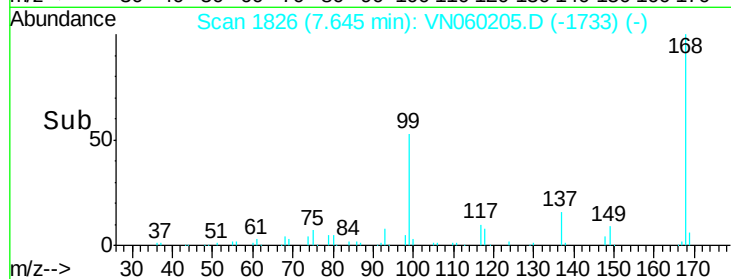
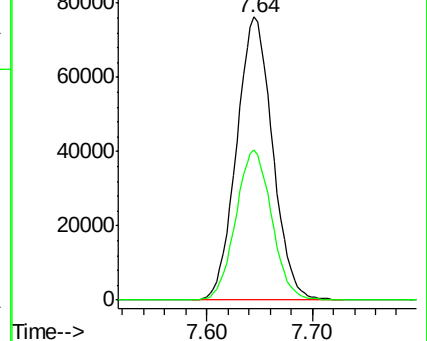
168 100

99 52.9 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.20 ug/l

RT: 4.74 min Scan# 924

Delta R.T. 0.02 min

Lab File: VN060205.D

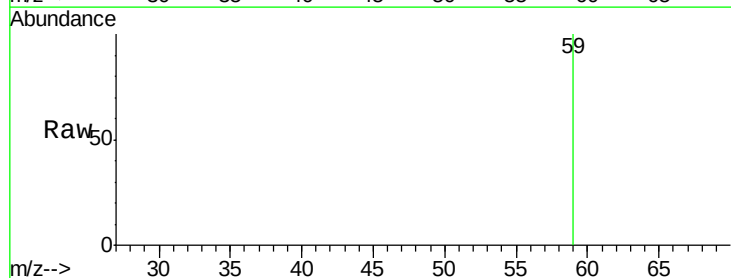
Acq: 24 Feb 2020 13:23

Tgt Ion: 59 Resp: 66

Ion Ratio Lower Upper

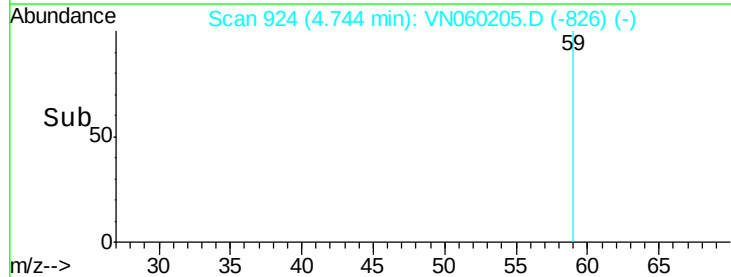
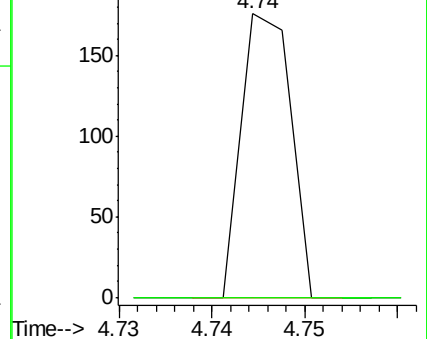
59 100

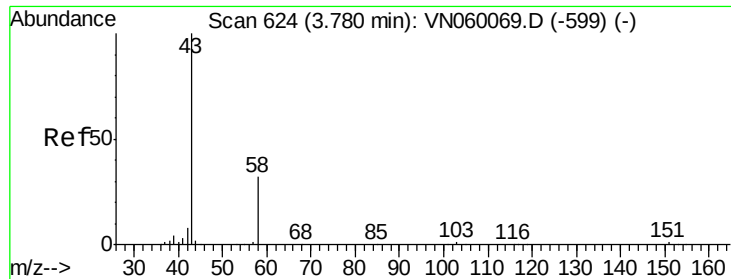
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 7.02 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060205.D

Acq: 24 Feb 2020 13:23

Instrument :

MSVOA_N

ClientSampleId :

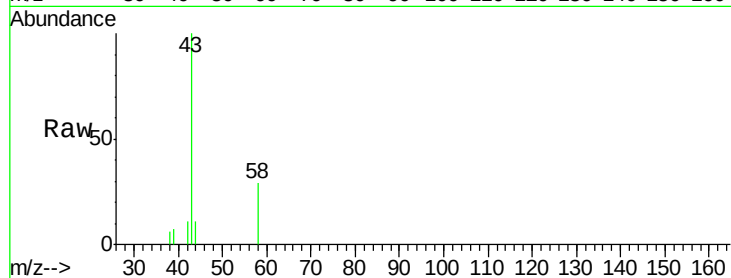
HAM-WC-S-SB-010203

Tgt Ion: 43 Resp: 6742

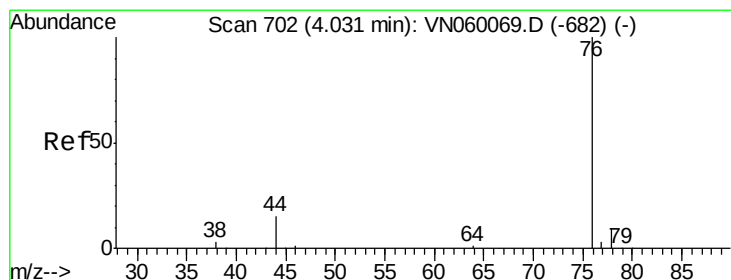
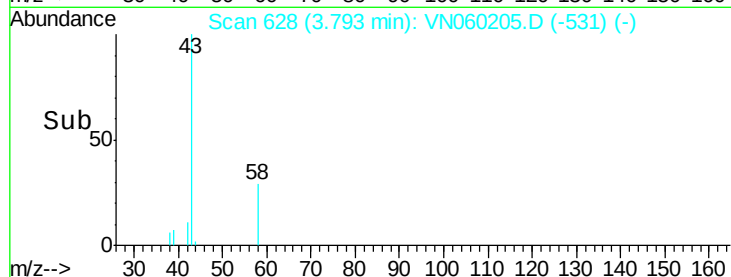
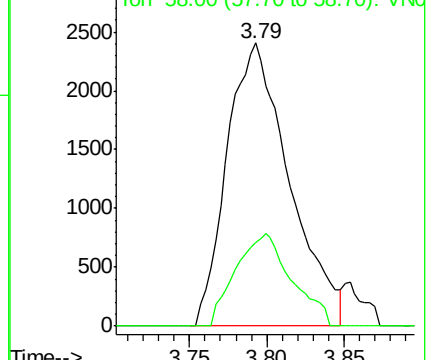
Ion Ratio Lower Upper

43 100

58 29.5 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-599) (-)



#17

Carbon Disulfide

Concen: 0.39 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN060205.D

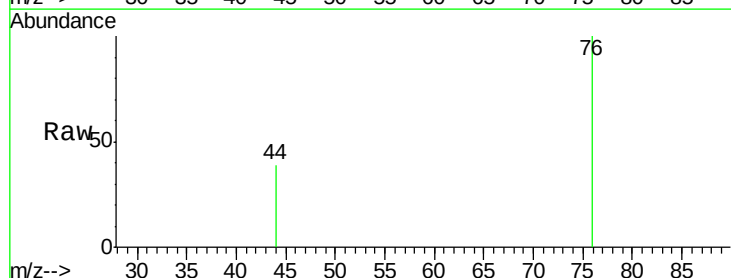
Acq: 24 Feb 2020 13:23

Tgt Ion: 76 Resp: 1996

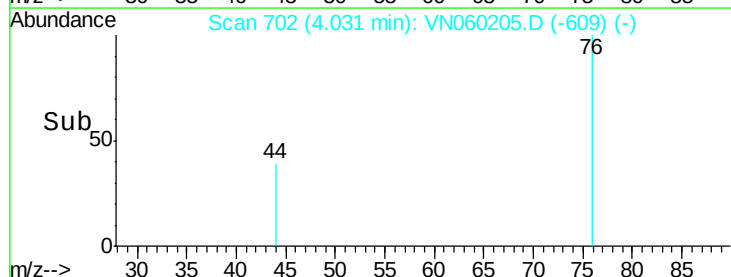
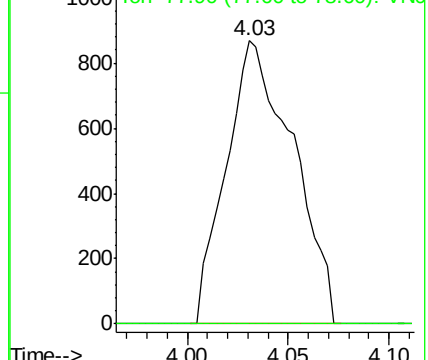
Ion Ratio Lower Upper

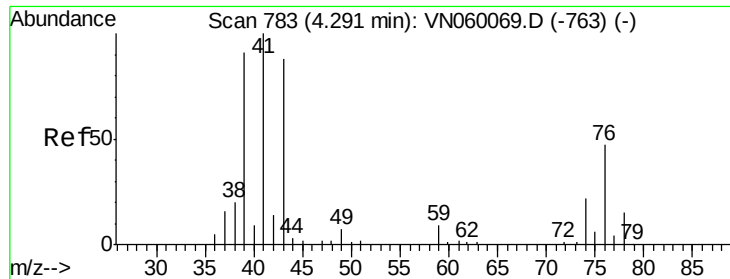
76 100

78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VN060069.D (-682) (-)

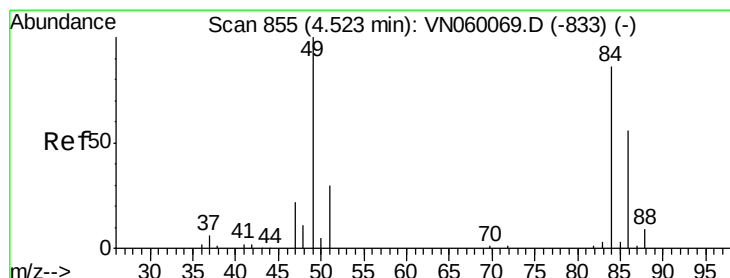
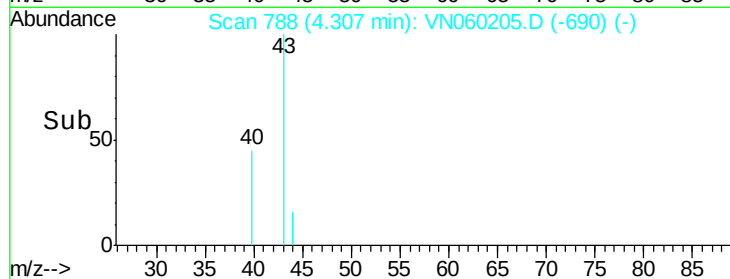
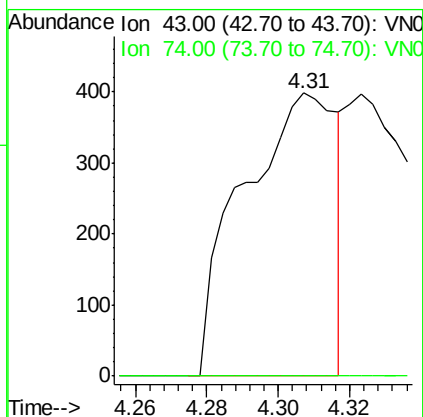
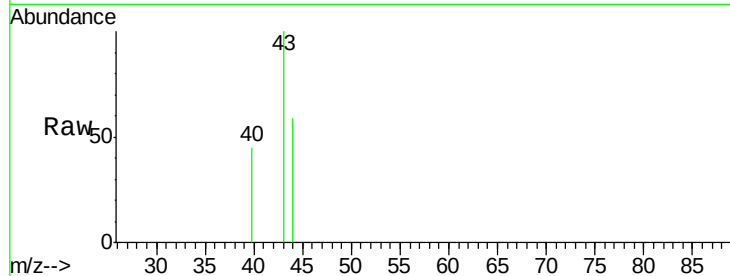




#18
Methyl Acetate
Concen: 0.40 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.02 min
Lab File: VN060205.D
Acq: 24 Feb 2020 13:23

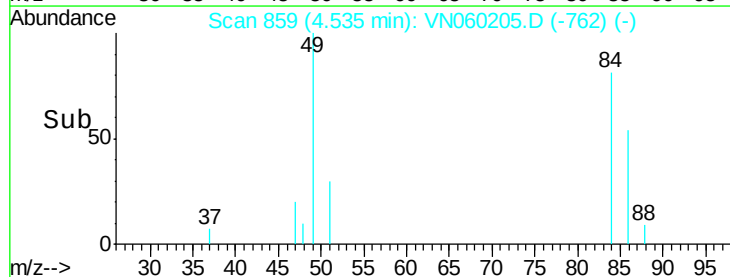
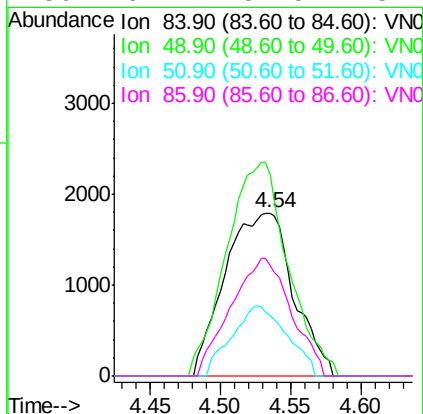
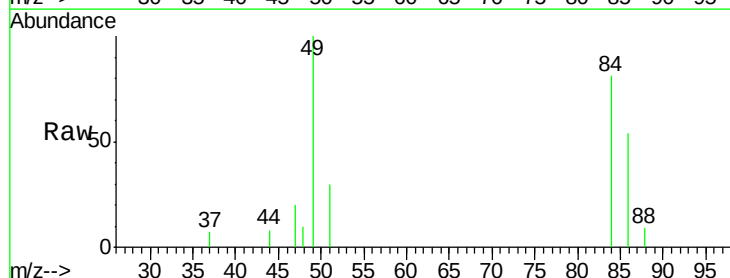
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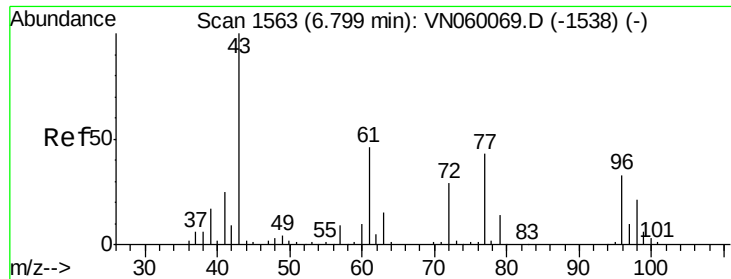
Tgt Ion: 43 Resp: 722
Ion Ratio Lower Upper
43 100
74 0.0 20.3 30.5#



#20
Methylene Chloride
Concen: 3.17 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN060205.D
Acq: 24 Feb 2020 13:23

Tgt Ion: 84 Resp: 6077
Ion Ratio Lower Upper
84 100
49 123.6 93.4 140.0
51 37.0 28.4 42.6
86 67.2 52.5 78.7





#25

2-Butanone

Concen: 4.76 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN060205.D

Acq: 24 Feb 2020 13:23

Instrument :

MSVOA_N

ClientSampleId :

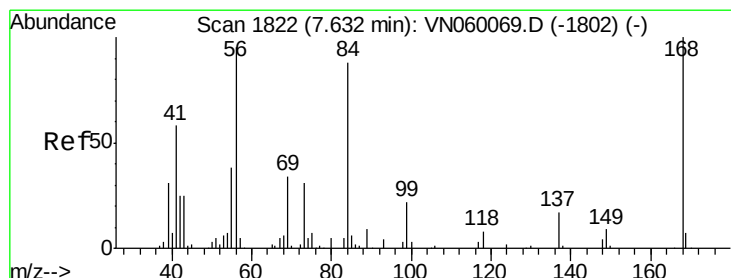
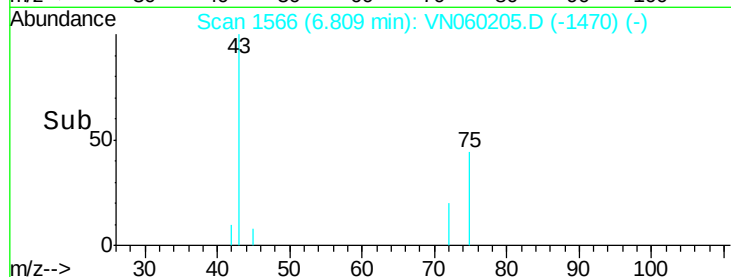
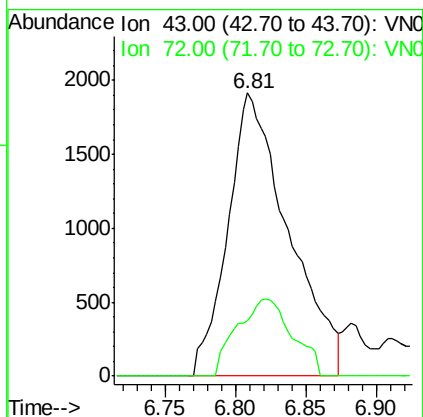
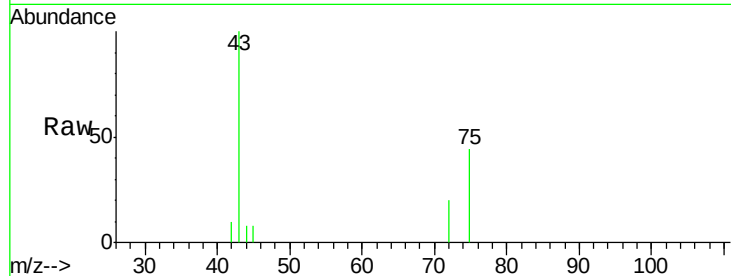
HAM-WC-S-SB-010203

Tgt Ion: 43 Resp: 5742

Ion Ratio Lower Upper

43 100

72 19.8 23.3 34.9#



#31

Cyclohexane

Concen: 1.08 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN060205.D

Acq: 24 Feb 2020 13:23

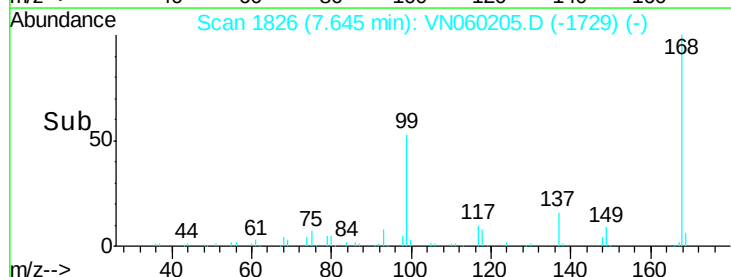
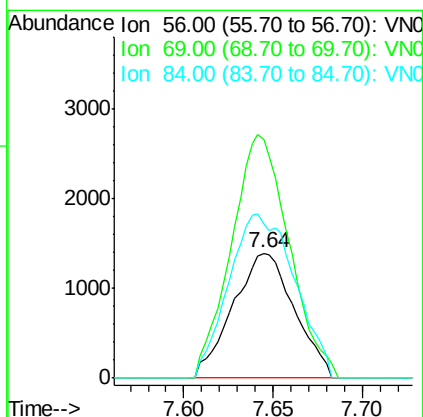
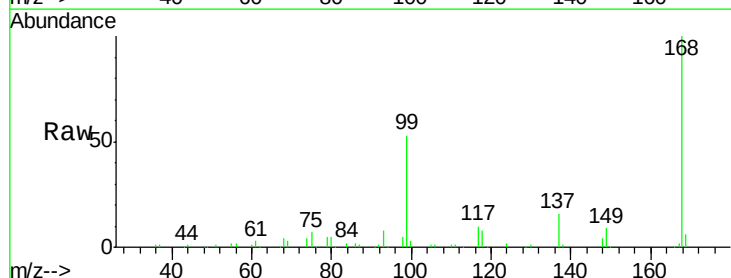
Tgt Ion: 56 Resp: 3352

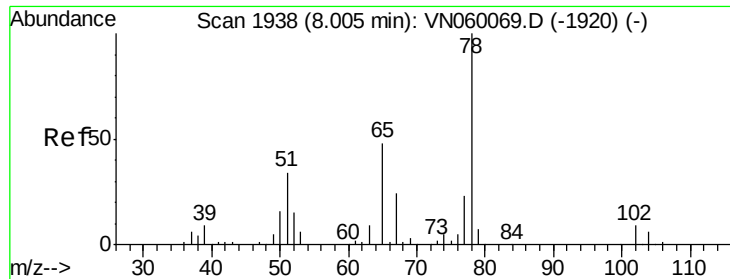
Ion Ratio Lower Upper

56 100

69 190.2 28.3 42.5#

84 123.1 72.6 108.8#

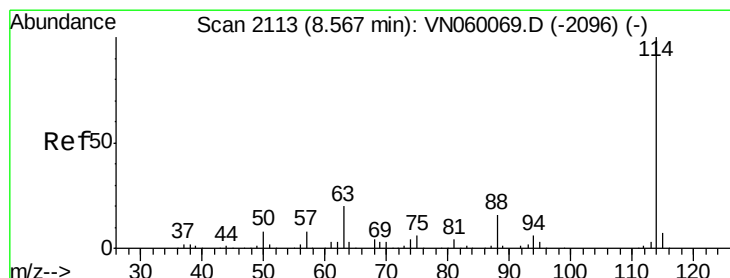
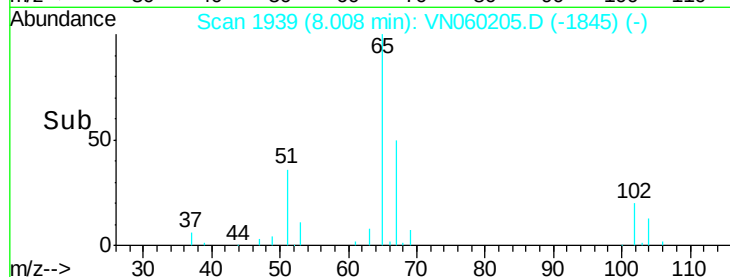
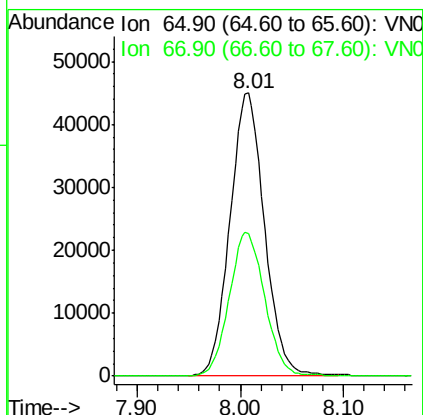
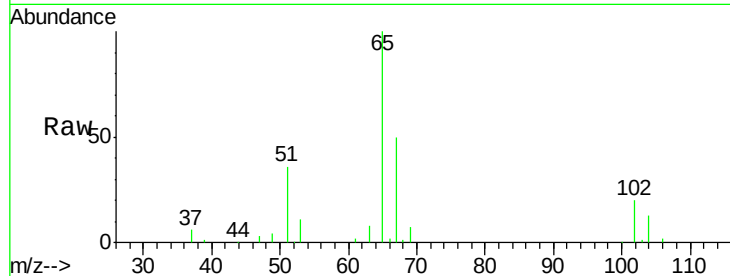




#33
 1,2-Dichloroethane-d4
 Concen: 47.70 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN060205.D
 Acq: 24 Feb 2020 13:23

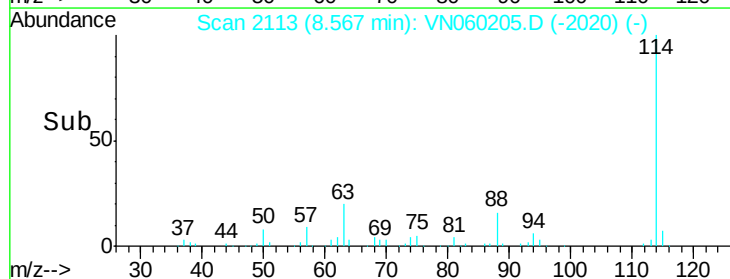
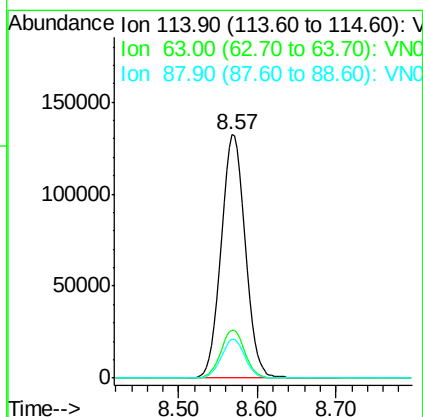
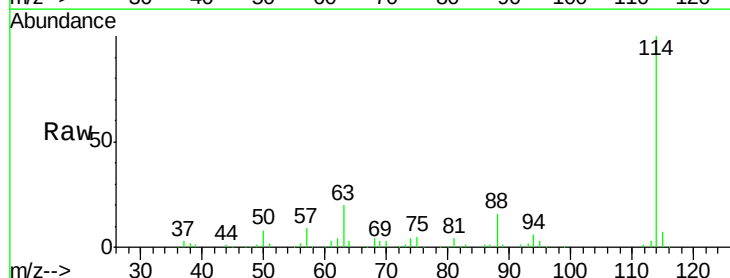
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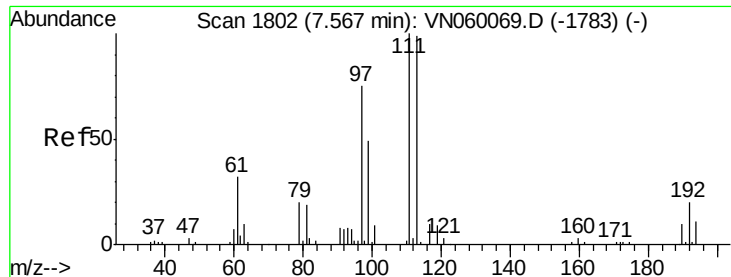
Tgt Ion: 65 Resp: 104982
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060205.D
 Acq: 24 Feb 2020 13:23

Tgt Ion: 114 Resp: 279956
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 40.0
 88 16.0 0.0 31.6

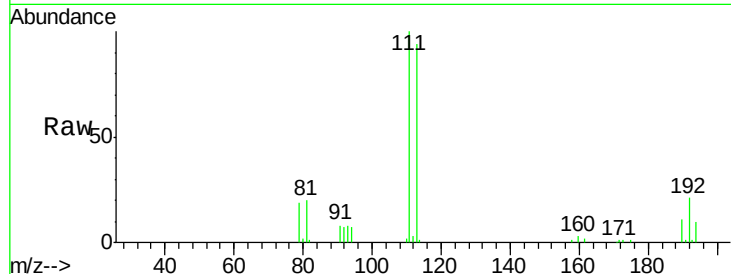




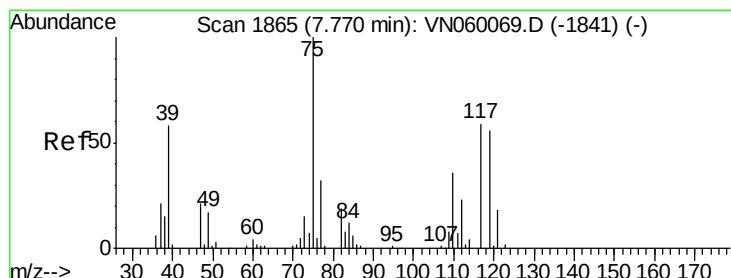
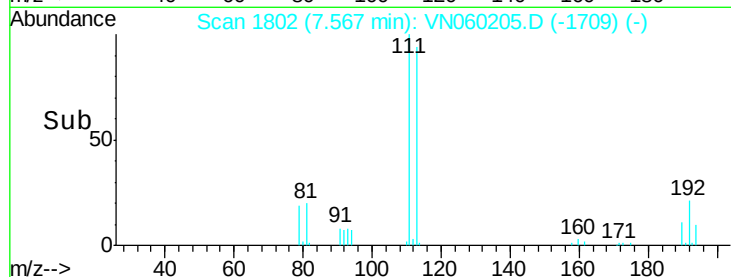
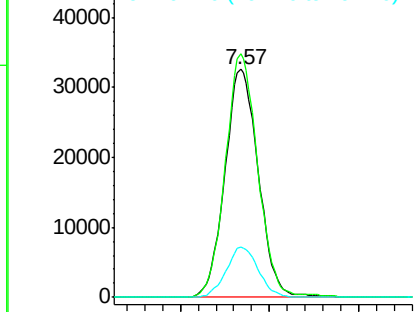
#35
 Dibromofluoromethane
 Concen: 49.16 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060205.D
 Acq: 24 Feb 2020 13:23

Instrument :
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Tgt Ion: 113 Resp: 84602
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.4 122.2
 192 21.0 16.2 24.2

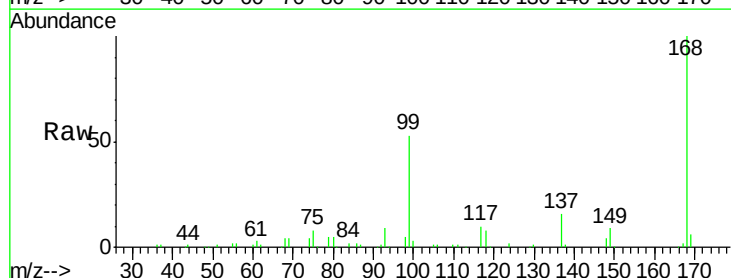


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

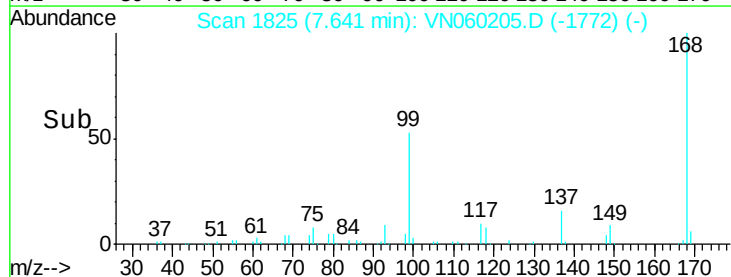
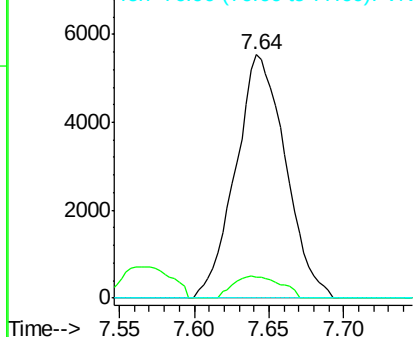


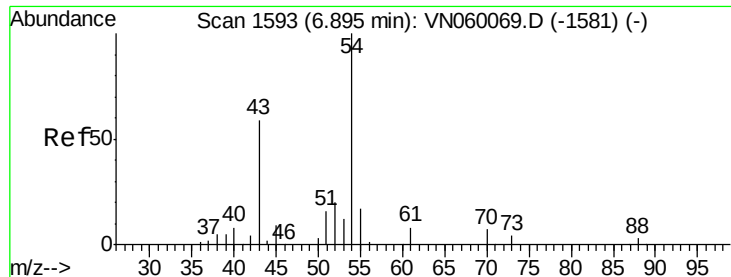
#36
 1,1-Dichloropropene
 Concen: 4.95 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060205.D
 Acq: 24 Feb 2020 13:23

Tgt Ion: 75 Resp: 12841
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.1 54.3#
 77 0.0 25.1 37.7#



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

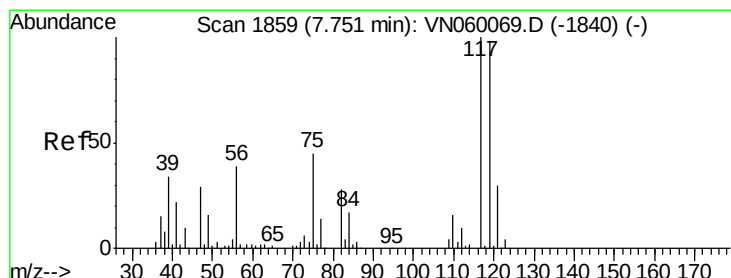
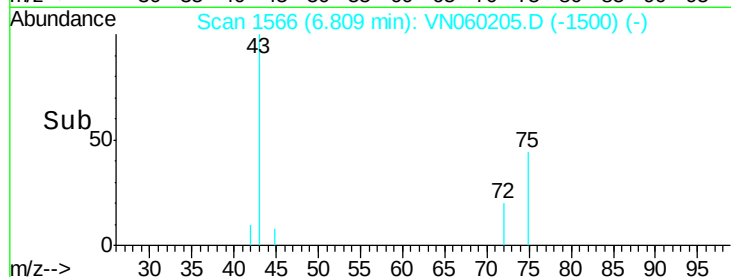
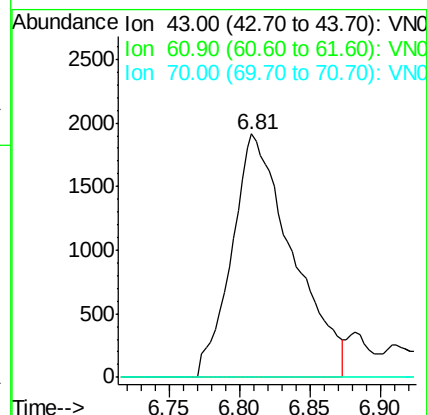
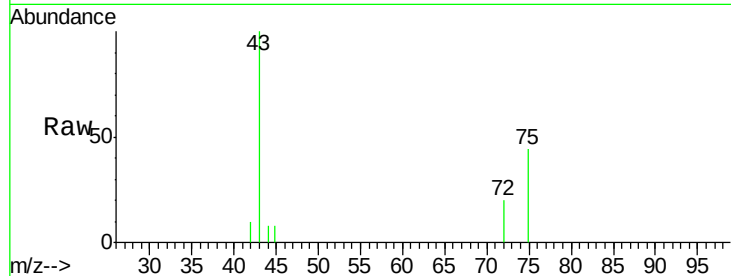




#37
Ethyl Acetate
 Concen: 2.45 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. -0.09 min
 Lab File: VN060205.D
 Acq: 24 Feb 2020 13:23

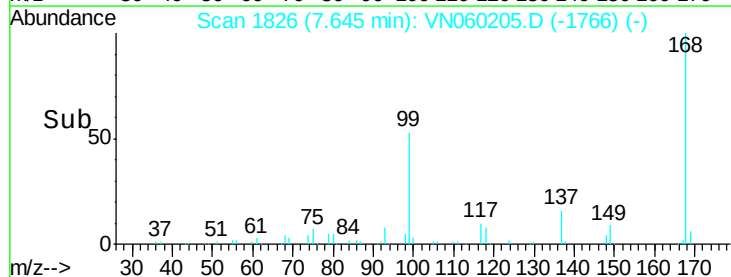
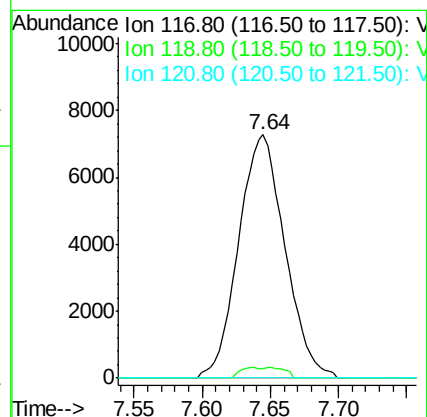
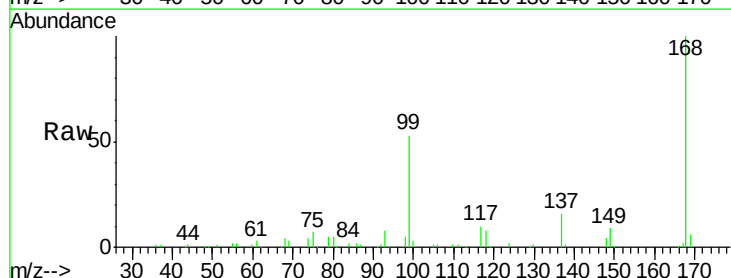
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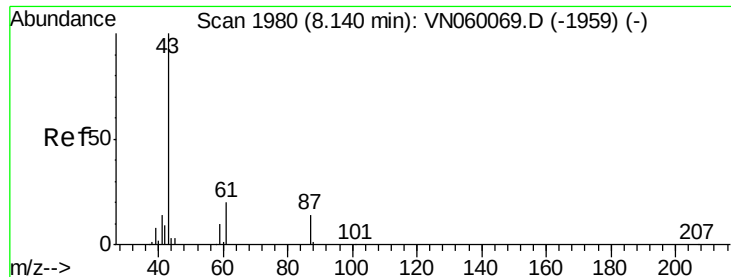
Tgt Ion: 43 Resp: 5742
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.4 17.2#
 70 0.0 8.7 13.1#



#38
Carbon Tetrachloride
 Concen: 6.08 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN060205.D
 Acq: 24 Feb 2020 13:23

Tgt Ion: 117 Resp: 17113
 Ion Ratio Lower Upper
 117 100
 119 4.0 78.2 117.4#
 121 0.0 24.2 36.2#





#43

Isopropyl Acetate

Concen: 10.91 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060205.D

Acq: 24 Feb 2020 13:23

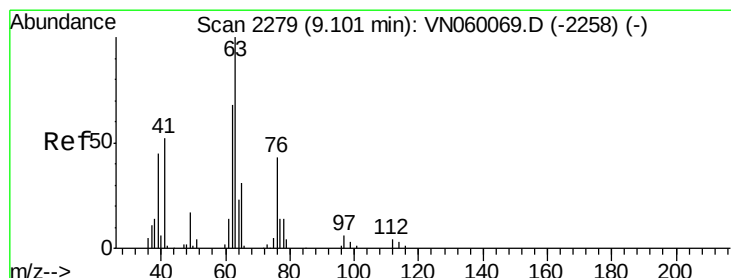
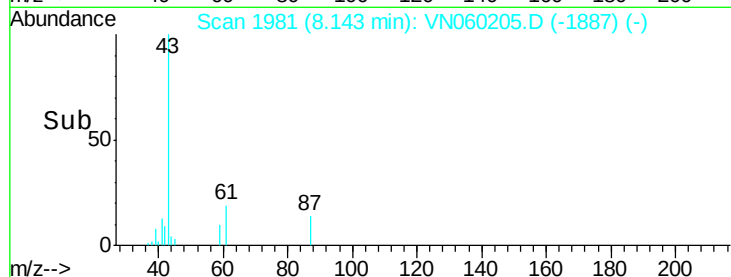
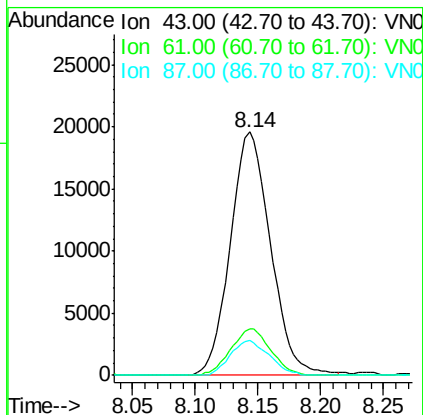
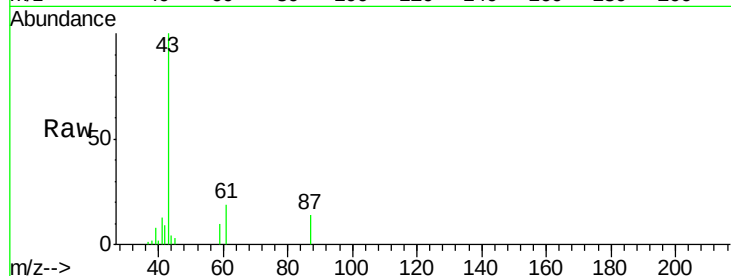
Instrument :

MSVOA_N

ClientSampleId :

HAM-WC-S-SB-010203

Tgt Ion:	43	Resp:	43693
Ion	Ratio	Lower	Upper
43	100		
61	18.8	21.8	32.6#
87	13.8	11.4	17.2



#45

1,2-Dichloropropane

Concen: 0.42 ug/l

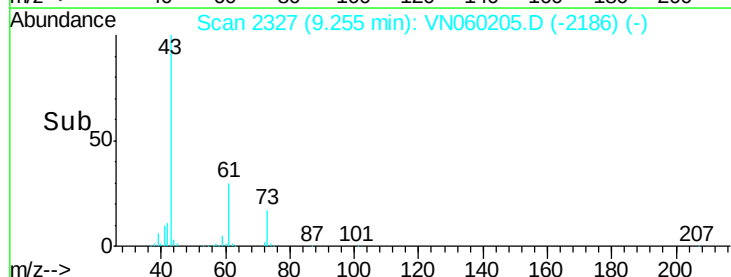
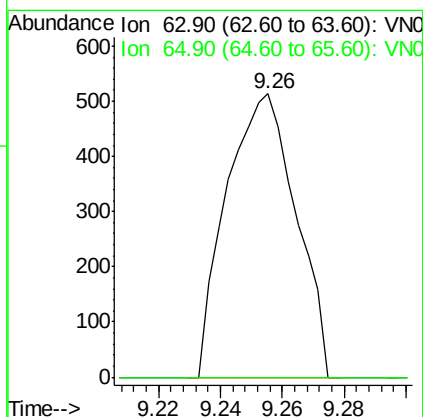
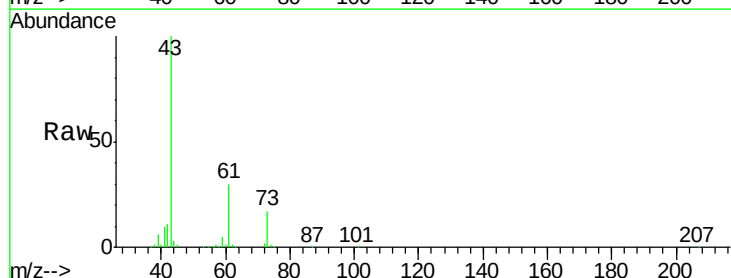
RT: 9.26 min Scan# 2327

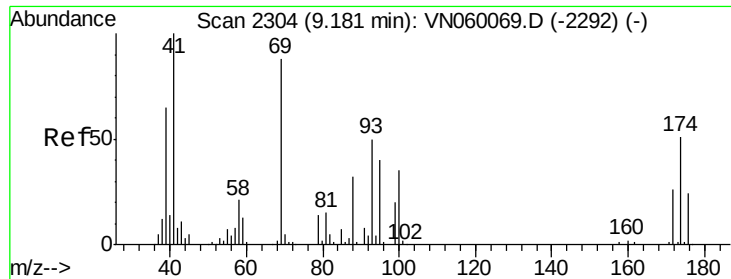
Delta R.T. 0.15 min

Lab File: VN060205.D

Acq: 24 Feb 2020 13:23

Tgt Ion:	63	Resp:	798
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.0	37.4#





#48

Methyl methacrylate

Concen: 1.56 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060205.D

Acq: 24 Feb 2020 13:23

Instrument :

MSVOA_N

ClientSampleId :

HAM-WC-S-SB-010203

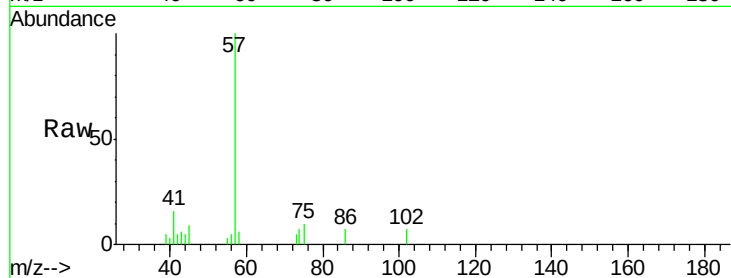
Tgt Ion: 41 Resp: 2801

Ion Ratio Lower Upper

41 100

69 0.0 72.0 108.0#

39 0.0 54.1 81.1#

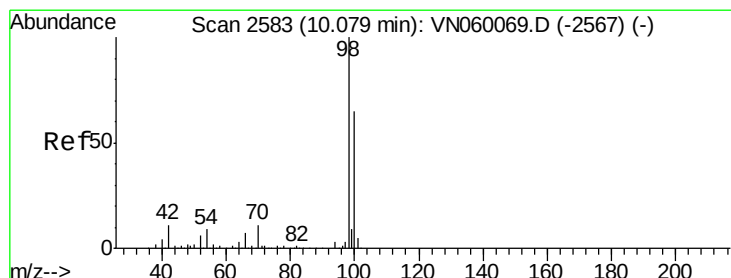
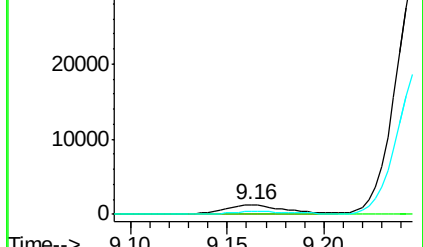
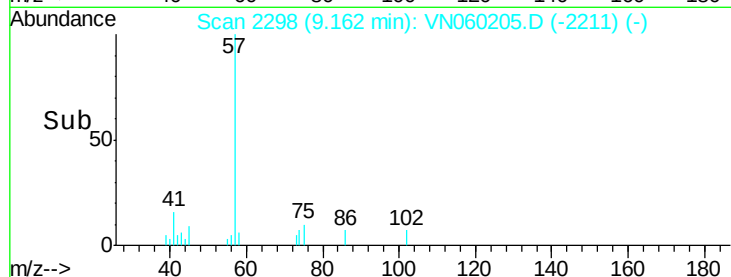


Abundance Ion 41.00 (40.70 to 41.70): VN060069.D (-2292) (-)

Ion 69.00 (68.70 to 69.70): VN060069.D (-2292) (-)

Ion 39.00 (38.70 to 39.70): VN060069.D (-2292) (-)

Time-->



#50

Toluene-d8

Concen: 50.40 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060205.D

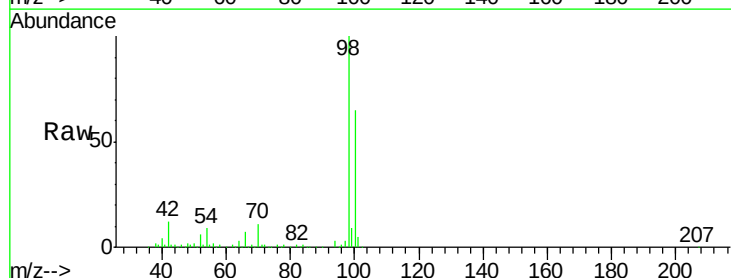
Acq: 24 Feb 2020 13:23

Tgt Ion: 98 Resp: 341531

Ion Ratio Lower Upper

98 100

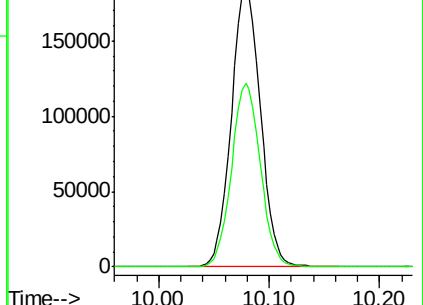
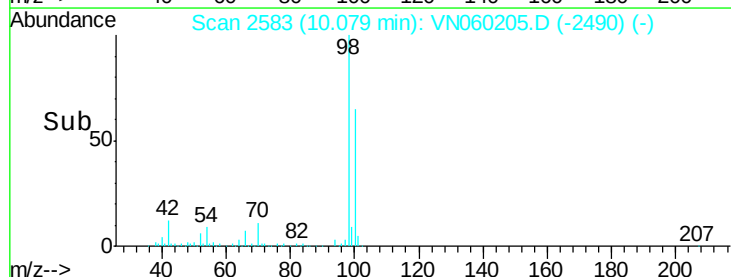
100 64.7 51.7 77.5

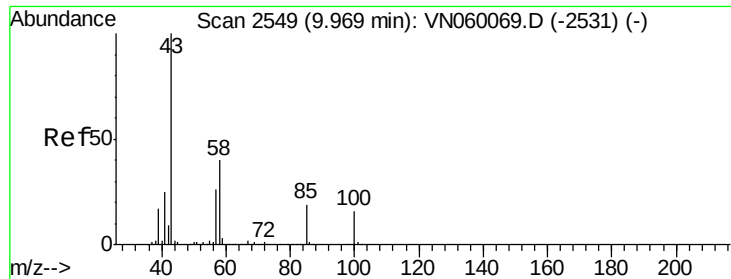


Abundance Ion 98.00 (97.70 to 98.70): VN060069.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN060069.D (-2567) (-)

Time-->





#51

4-Methyl-2-Pentanone

Concen: 1.30 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060205.D

Acq: 24 Feb 2020 13:23

Instrument :

MSVOA_N

ClientSampleId :

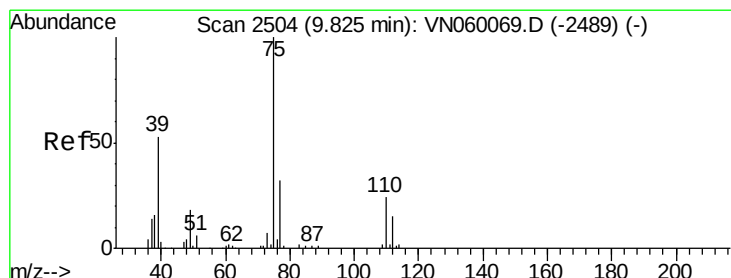
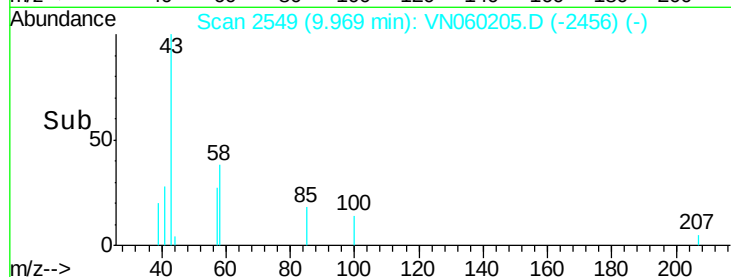
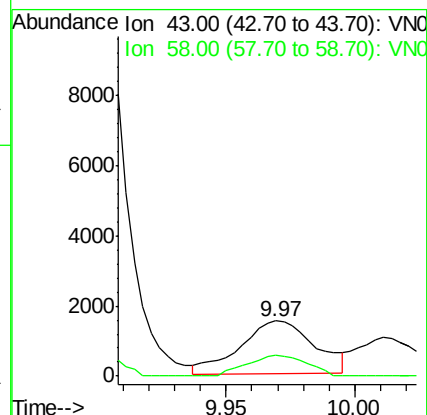
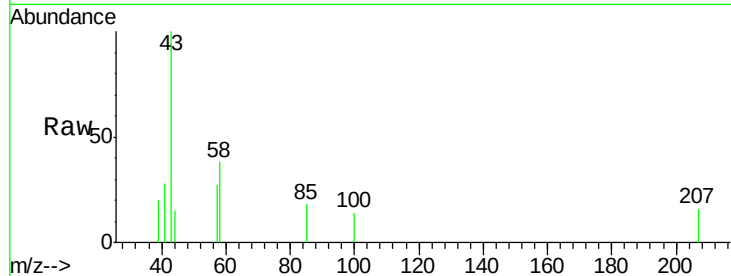
HAM-WC-S-SB-010203

Tgt Ion: 43 Resp: 3026

Ion Ratio Lower Upper

43 100

58 31.5 31.8 47.8#



#54

cis-1,3-Dichloropropene

Concen: 5.96 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060205.D

Acq: 24 Feb 2020 13:23

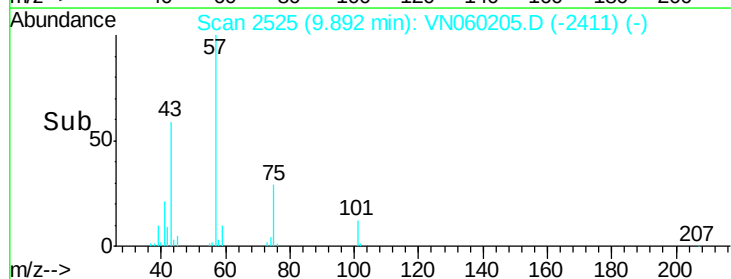
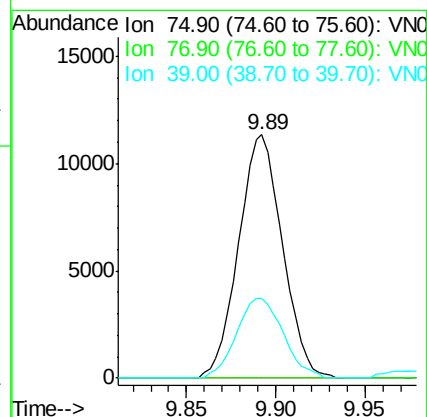
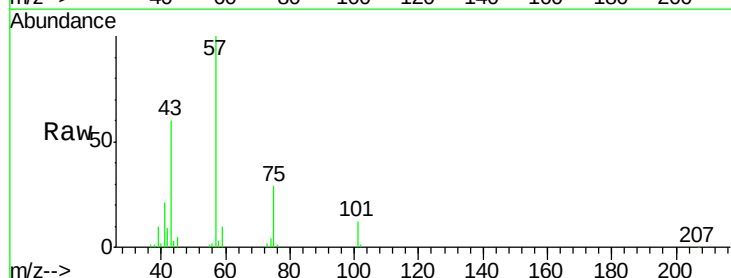
Tgt Ion: 75 Resp: 19386

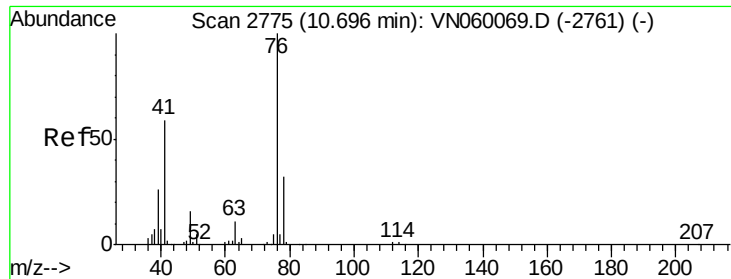
Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

39 32.5 42.2 63.4#

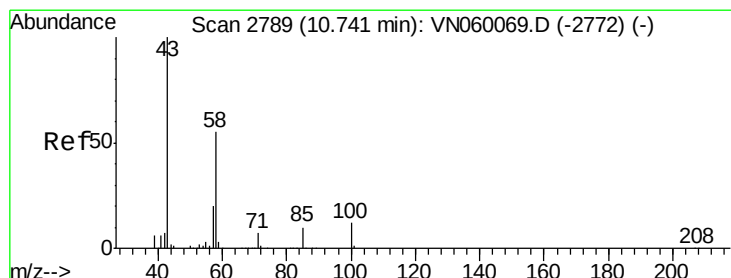
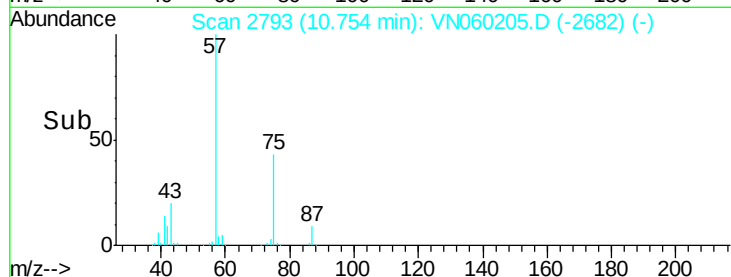
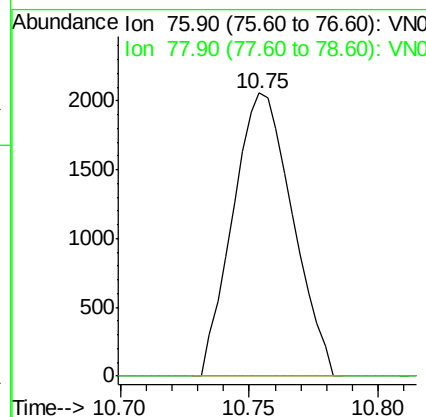
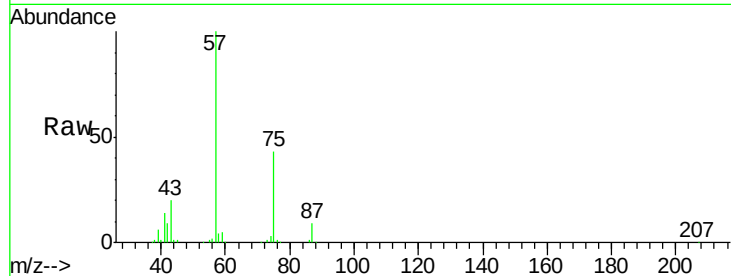




#57
 1,3-Dichloropropane
 Concen: 1.04 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060205.D
 Acq: 24 Feb 2020 13:23

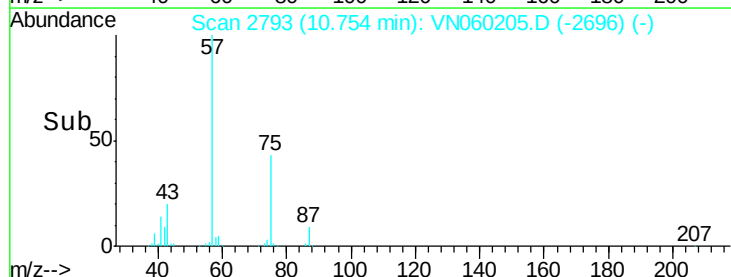
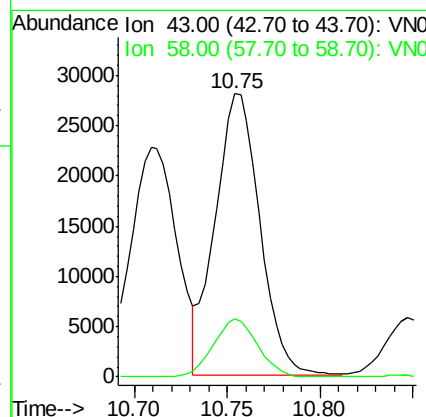
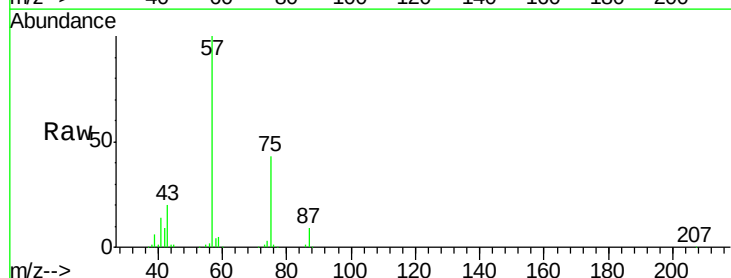
Instrument :
 MSVOA_N
 ClientSampleId :
 HAM-WC-S-SB-010203

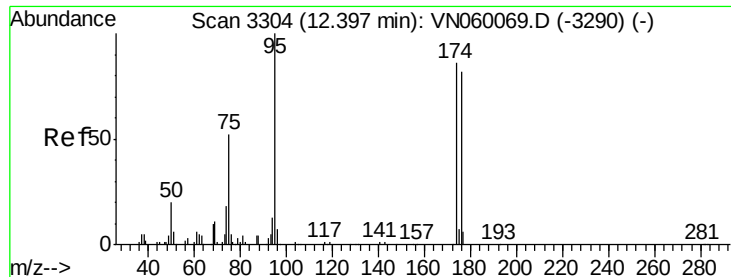
Tgt Ion: 76 Resp: 3303
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 26.13 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060205.D
 Acq: 24 Feb 2020 13:23

Tgt Ion: 43 Resp: 46810
 Ion Ratio Lower Upper
 43 100
 58 20.3 27.5 82.4#





#62

4-Bromofluorobenzene

Concen: 49.26 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060205.D

Acq: 24 Feb 2020 13:23

Instrument :

MSVOA_N

ClientSampleId :

HAM-WC-S-SB-010203

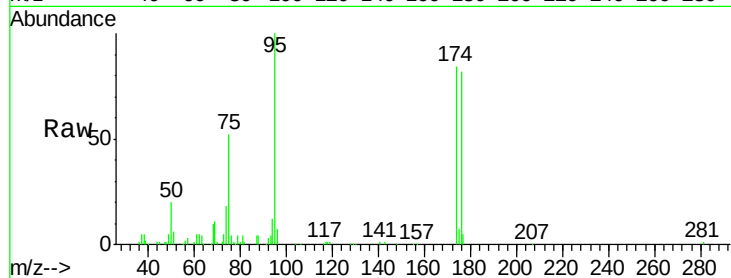
Tgt Ion: 95 Resp: 122664

Ion Ratio Lower Upper

95 100

174 85.6 0.0 169.8

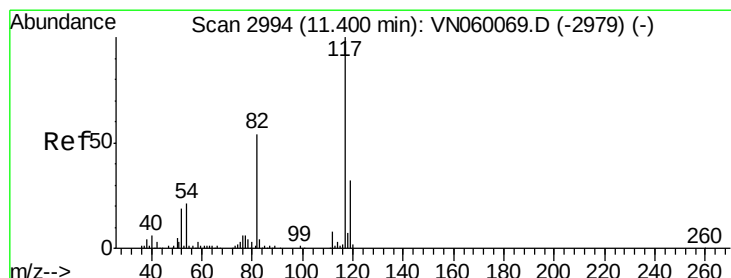
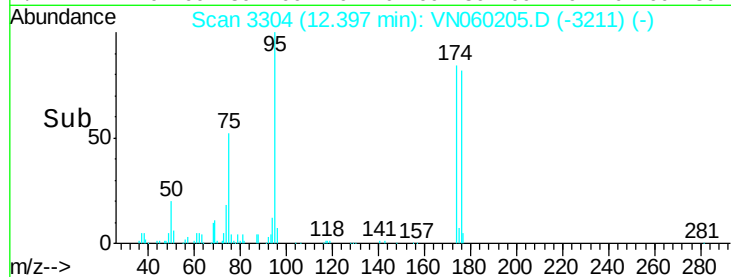
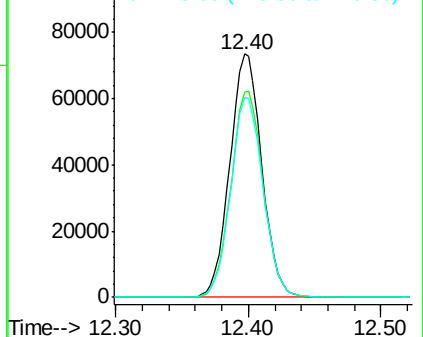
176 83.1 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN060205.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060205.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060205.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060205.D

Acq: 24 Feb 2020 13:23

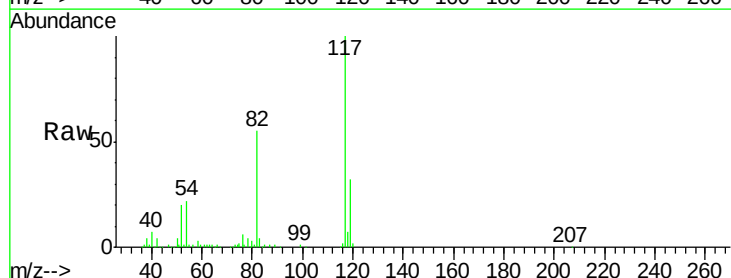
Tgt Ion: 117 Resp: 263545

Ion Ratio Lower Upper

117 100

82 54.8 43.4 65.0

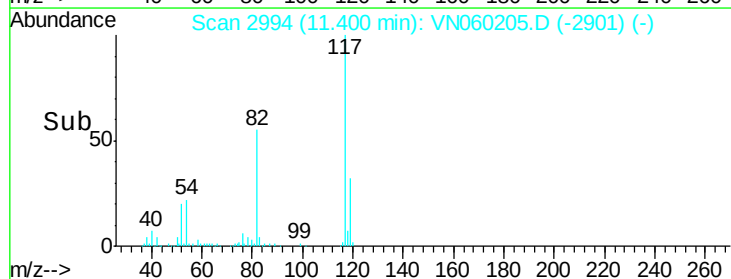
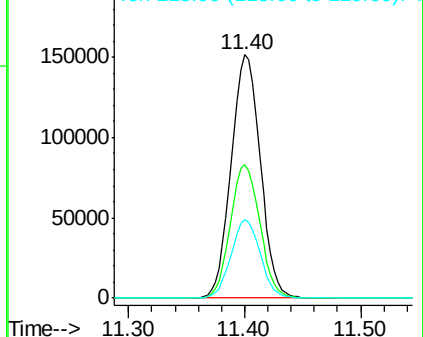
119 32.3 25.8 38.6

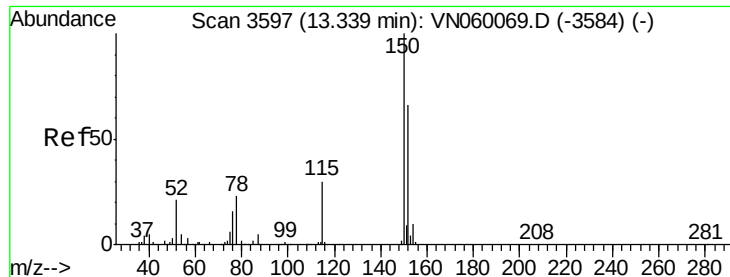


Abundance Ion 116.90 (116.60 to 117.60): VN060205.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060205.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060205.D (-2901) (-)

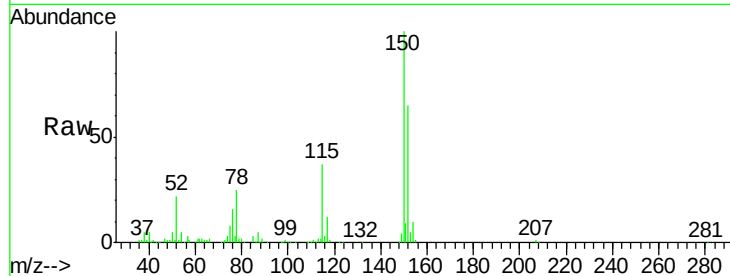




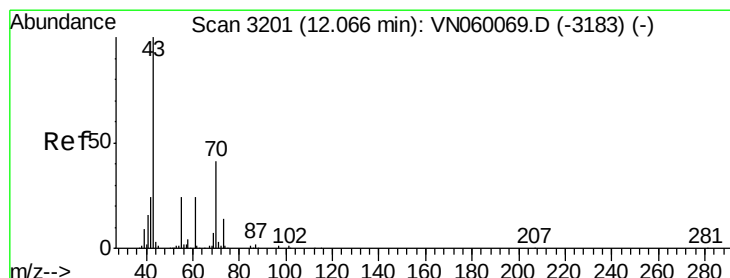
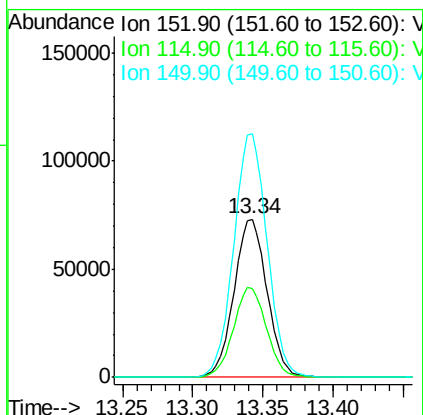
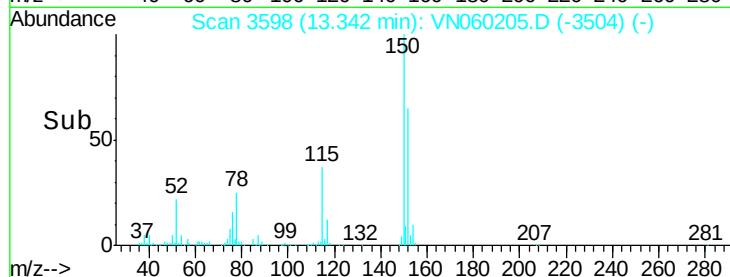
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 13.34 min Scan# 3598
 Delta R.T. 0.00 min
 Lab File: VN060205.D
 Acq: 24 Feb 2020 13:23

Instrument :
 MSVOA_N
 ClientSampleId :
 HAM-WC-S-SB-010203

Tgt Ion: 152 Resp: 120322
 Ion Ratio Lower Upper
 152 100
 115 56.8 28.9 86.8
 150 155.5 0.0 342.4

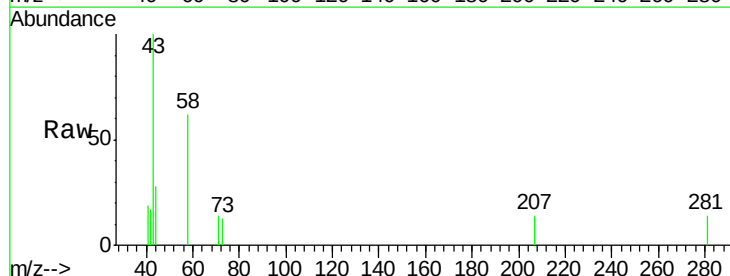


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

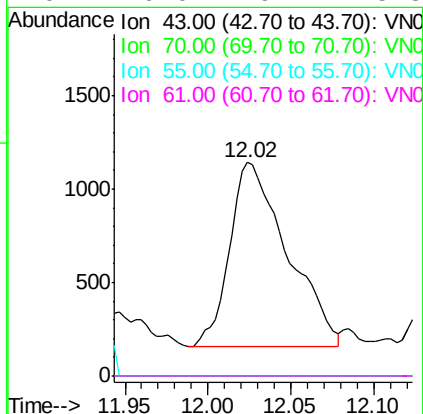
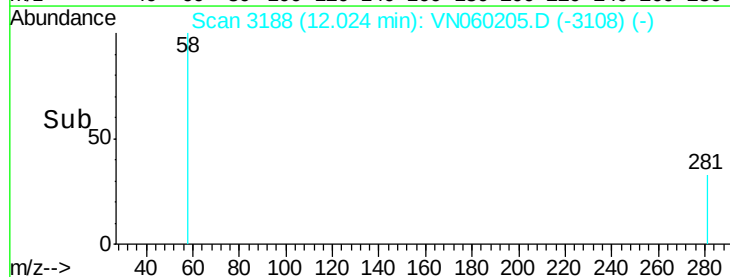


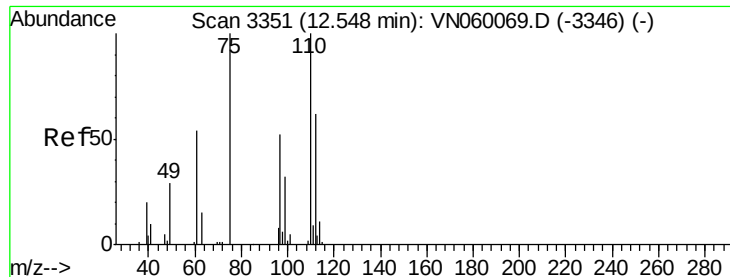
#74
 N-ethyl acetate
 Concen: 0.73 ug/l
 RT: 12.02 min Scan# 3188
 Delta R.T. -0.04 min
 Lab File: VN060205.D
 Acq: 24 Feb 2020 13:23

Tgt Ion: 43 Resp: 2379
 Ion Ratio Lower Upper
 43 100
 70 0.0 33.4 50.0#
 55 0.0 18.8 28.2#
 61 0.0 19.2 28.8#



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

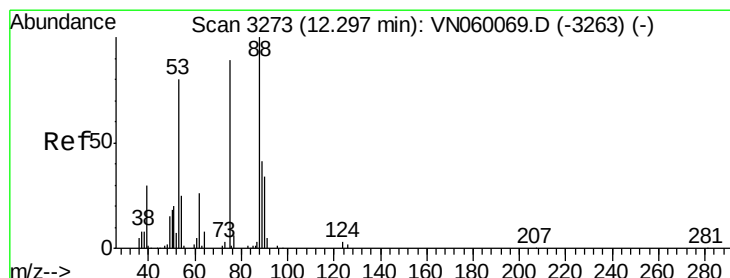
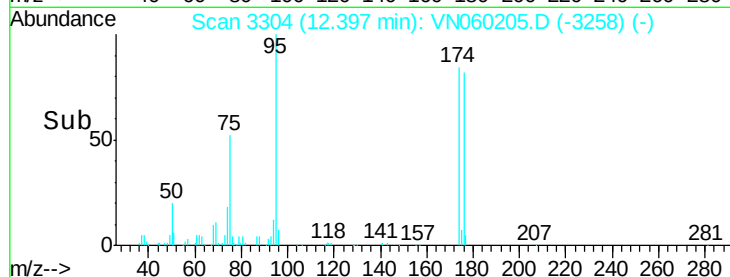
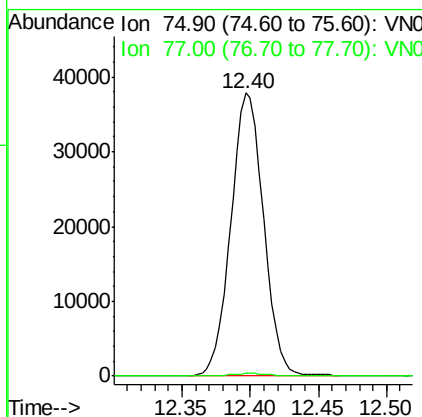
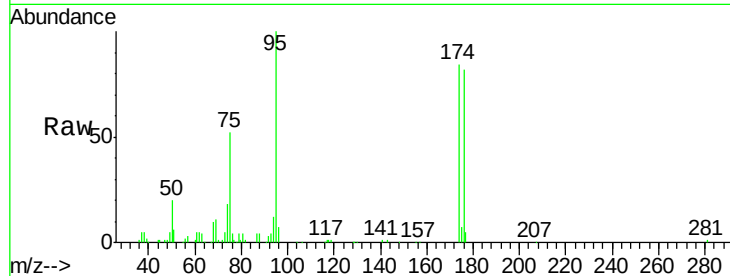




#76
 1,2,3-Trichloropropane
 Concen: 27.39 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.15 min
 Lab File: VN060205.D
 Acq: 24 Feb 2020 13:23

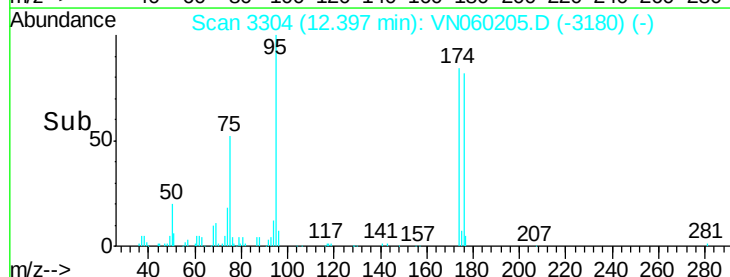
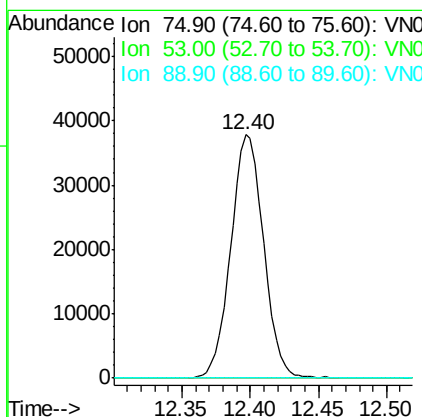
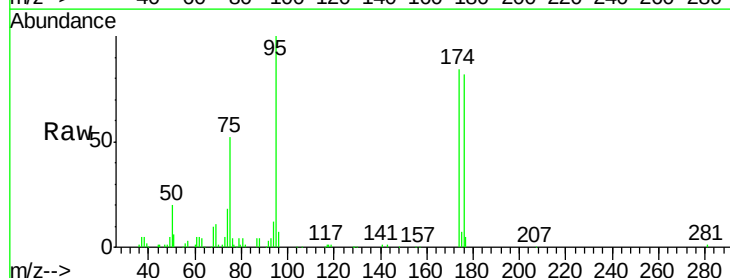
Instrument :
 MSVOA_N
 ClientSampleId :
 HAM-WC-S-SB-010203

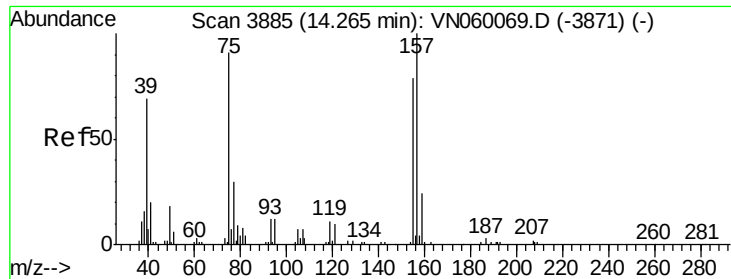
Tgt Ion: 75 Resp: 63049
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.06 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060205.D
 Acq: 24 Feb 2020 13:23

Tgt Ion: 75 Resp: 63049
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.9 110.9#
 89 0.0 37.0 55.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.46 min Scan# 3946

Delta R.T. 0.20 min

Lab File: VN060205.D

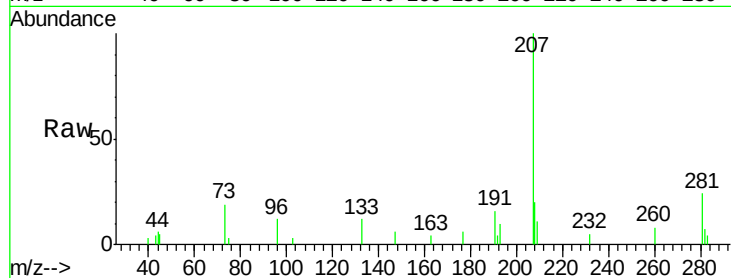
Acq: 24 Feb 2020 13:23

Instrument :

MSVOA_N

ClientSampleId :

HAM-WC-S-SB-010203



Tgt Ion:	75	Resp:	59
Ion	Ratio	Lower	Upper
75	100		
155	0.0	43.0	129.0#
157	0.0	54.9	164.5#

