

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN022420\
 Data File : VN060212.D
 Acq On : 24 Feb 2020 16:02
 Operator : JC/MD
 Sample : L1593-02DL 5X
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 STOCKPILEDL

Quant Time: Feb 24 16:54:58 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	190430	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	293546	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	280498	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	126246	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	112543	48.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.14%	
35) Dibromofluoromethane	7.57	113	90551	50.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.36%	
50) Toluene-d8	10.08	98	358062	50.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.78%	
62) 4-Bromofluorobenzene	12.40	95	129148	49.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.92%	

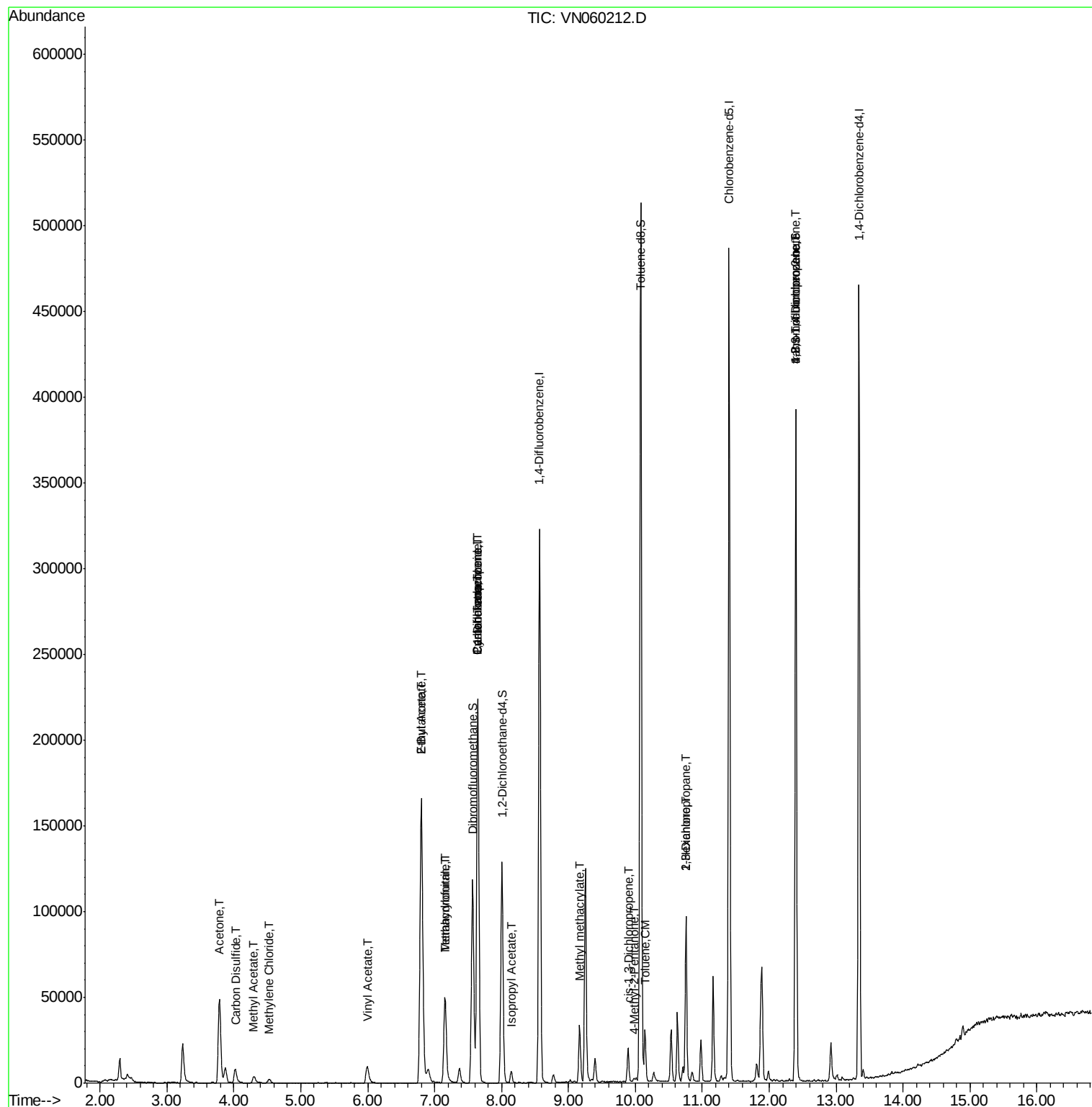
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	84571	83.67	ug/l	98
17) Carbon Disulfide	4.03	76	1139	0.21	ug/l #	76
18) Methyl Acetate	4.29	43	7982	4.20	ug/l	93
20) Methylene Chloride	4.52	84	895	0.44	ug/l #	92
23) Vinyl Acetate	5.99	43	2199	0.45	ug/l #	71
25) 2-Butanone	6.80	43	297076	233.70	ug/l	98
29) Tetrahydrofuran	7.16	42	2457	3.15	ug/l #	47
31) Cyclohexane	7.64	56	3757	1.15	ug/l #	16
36) 1,1-Dichloropropene	7.64	75	13838	5.09	ug/l #	48
37) Ethyl Acetate	6.80	43	297076	120.90	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18316	6.20	ug/l #	15
41) Methacrylonitrile	7.16	41	10512	10.20	ug/l #	100
43) Isopropyl Acetate	8.14	43	8289	1.97	ug/l #	87
48) Methyl methacrylate	9.17	41	1065	0.57	ug/l #	36
51) 4-Methyl-2-Pentanone	9.98	43	1101	0.45	ug/l #	35
52) Toluene	10.15	92	12540	2.42	ug/l	97
54) cis-1,3-Dichloropropene	9.89	75	3330	0.98	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	923	0.28	ug/l #	43
59) 2-Hexanone	10.76	43	14285	7.61	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	65660	27.18	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	65660	66.56	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.26	75	89	Below Cal	#	1

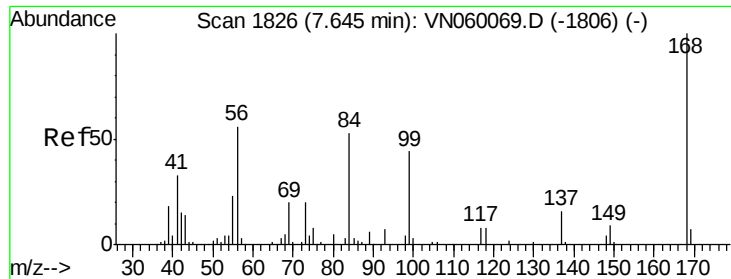
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060212.D

Acq: 24 Feb 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

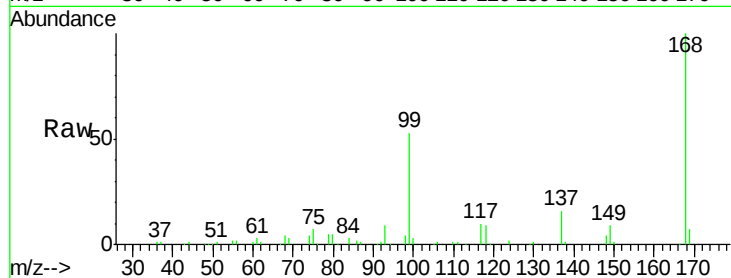
STOCKPILEDL

Tgt Ion:168 Resp: 190430

Ion Ratio Lower Upper

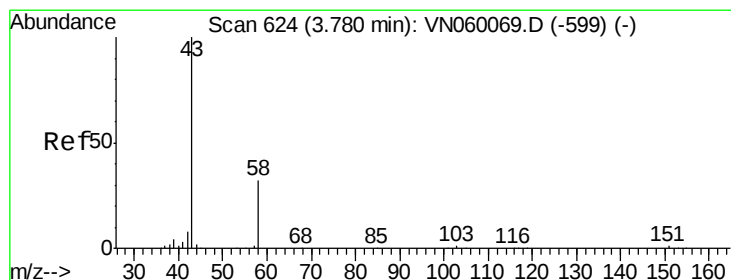
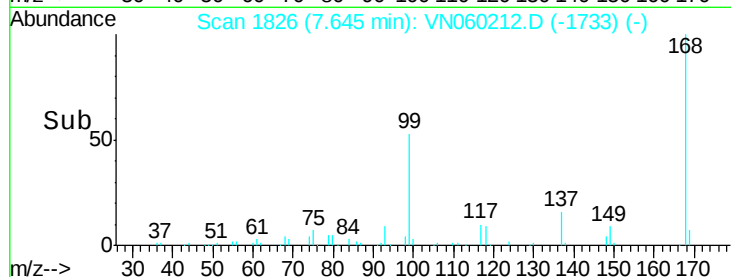
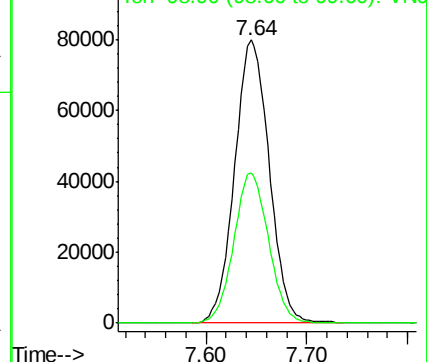
168 100

99 53.2 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 83.67 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.00 min

Lab File: VN060212.D

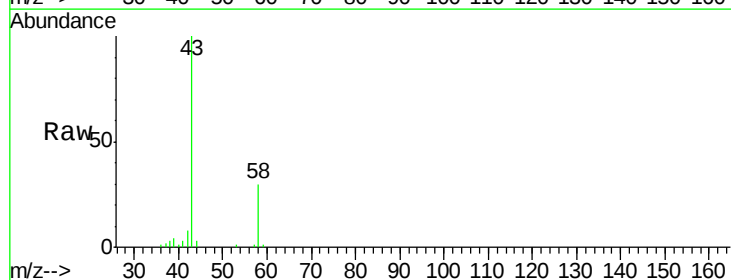
Acq: 24 Feb 2020 16:02

Tgt Ion: 43 Resp: 84571

Ion Ratio Lower Upper

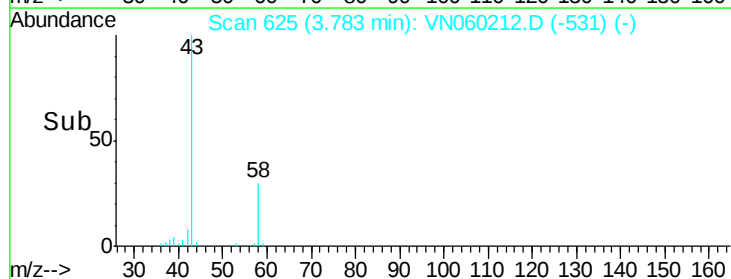
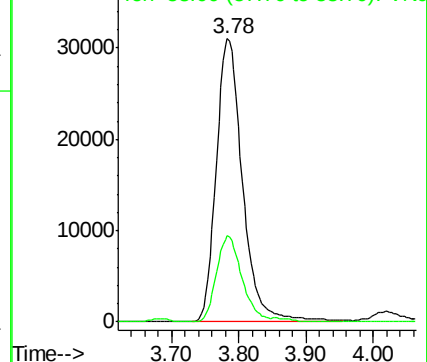
43 100

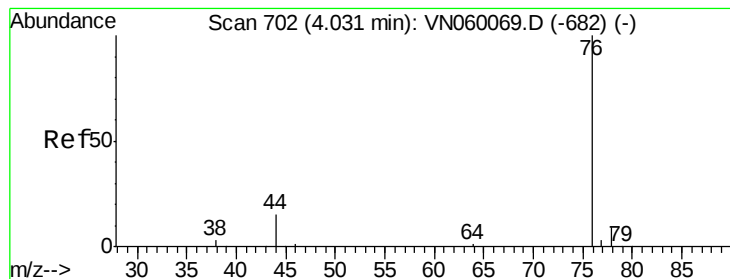
58 30.3 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#17

Carbon Disulfide

Concen: 0.21 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN060212.D

Acq: 24 Feb 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

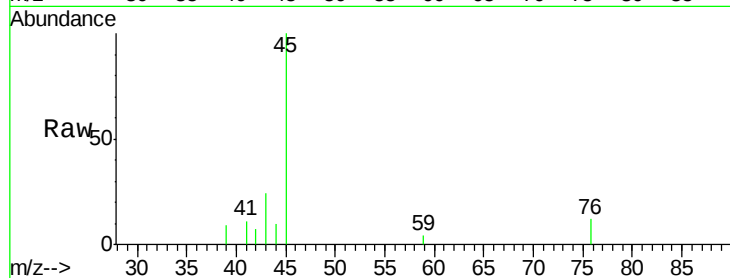
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Tgt Ion: 76 Resp: 1139

Ion Ratio Lower Upper

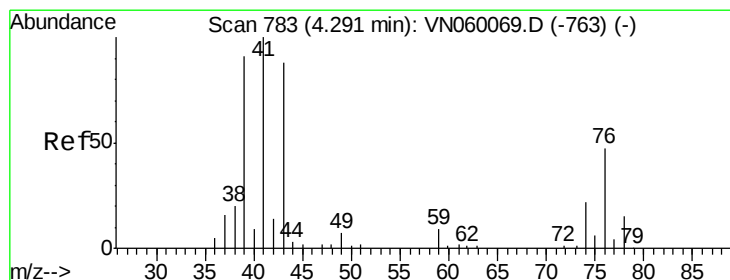
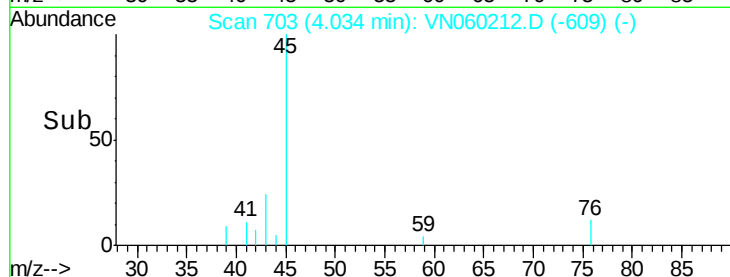
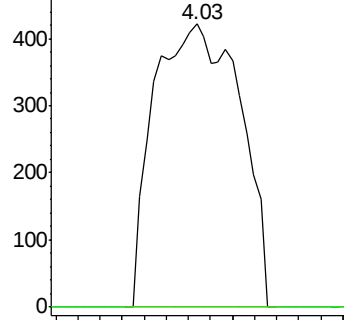
76 100

78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



#18

Methyl Acetate

Concen: 4.20 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.00 min

Lab File: VN060212.D

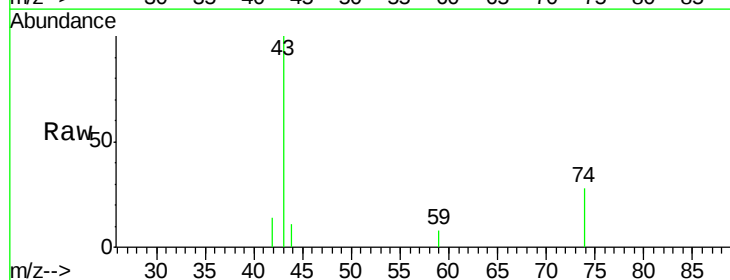
Acq: 24 Feb 2020 16:02

Tgt Ion: 43 Resp: 7982

Ion Ratio Lower Upper

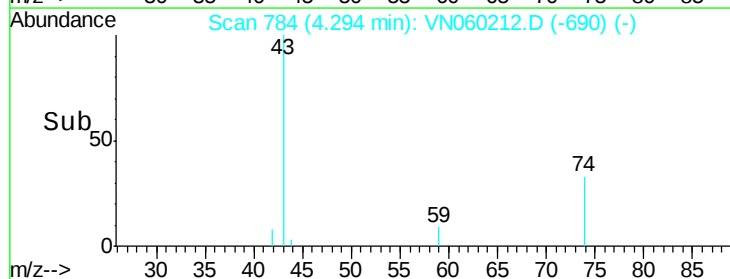
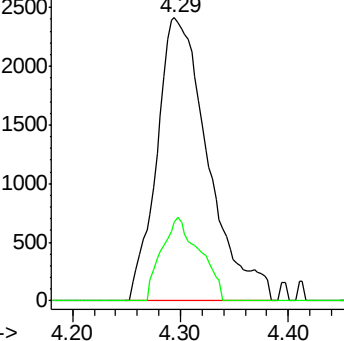
43 100

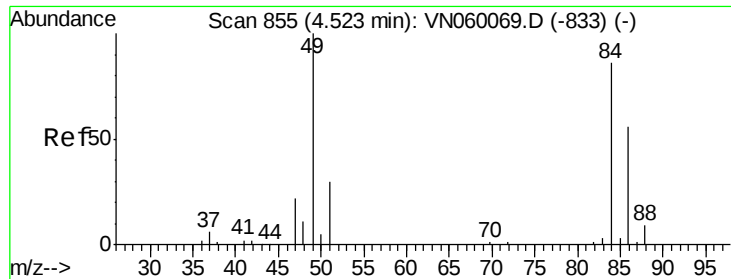
74 22.1 20.3 30.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 74.00 (73.70 to 74.70): VNO

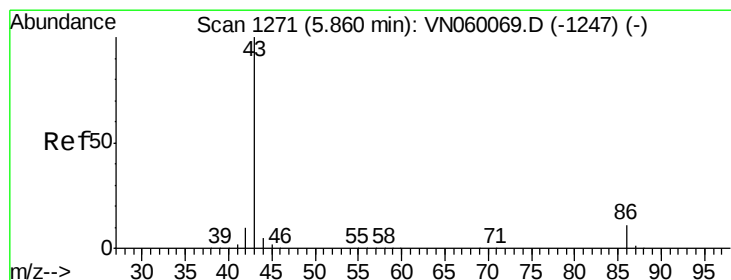
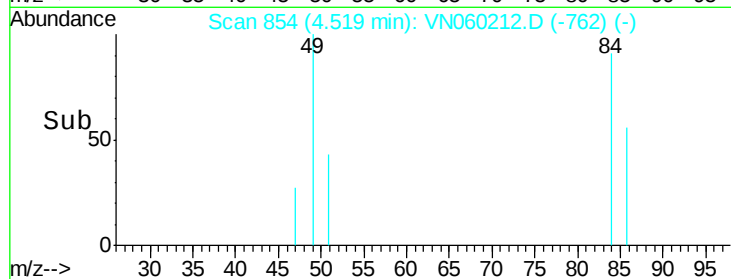
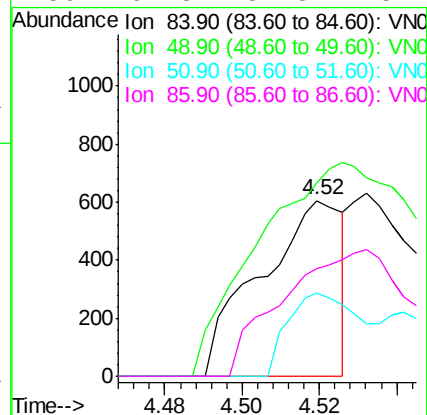
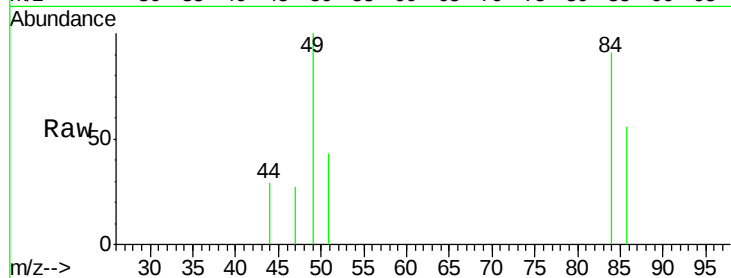




#20
Methylene Chloride
Concen: 0.44 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060212.D
Acq: 24 Feb 2020 16:02

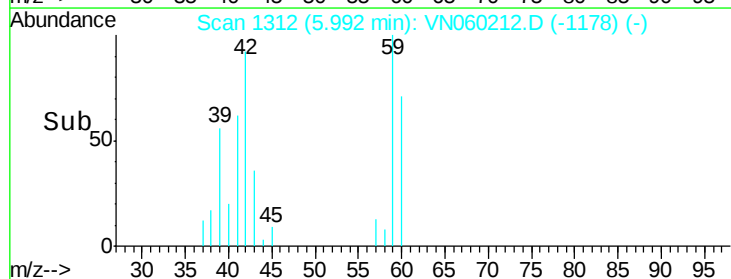
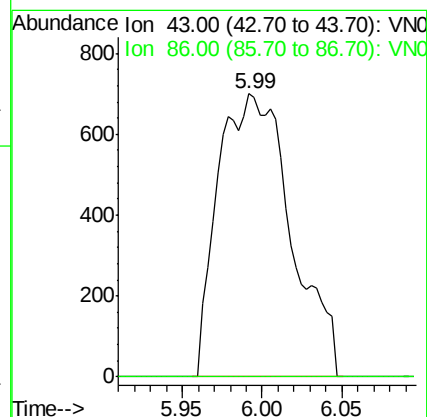
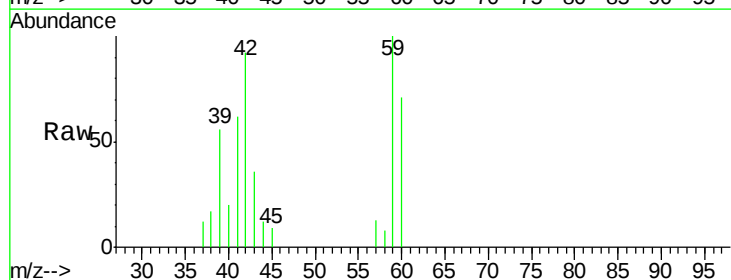
Instrument :
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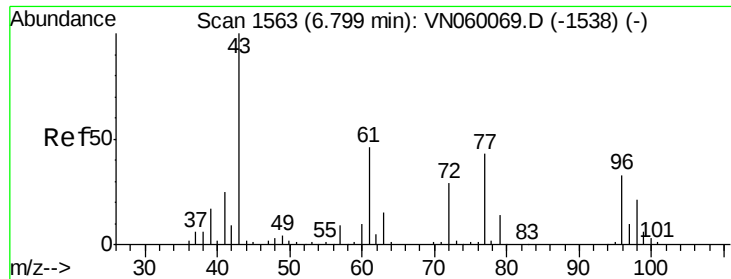
Tgt Ion: 84 Resp: 895
Ion Ratio Lower Upper
84 100
49 110.4 93.4 140.0
51 47.3 28.4 42.6#
86 61.3 52.5 78.7



#23
Vinyl Acetate
Concen: 0.45 ug/l
RT: 5.99 min Scan# 1312
Delta R.T. 0.13 min
Lab File: VN060212.D
Acq: 24 Feb 2020 16:02

Tgt Ion: 43 Resp: 2199
Ion Ratio Lower Upper
43 100
86 0.0 8.9 13.3#

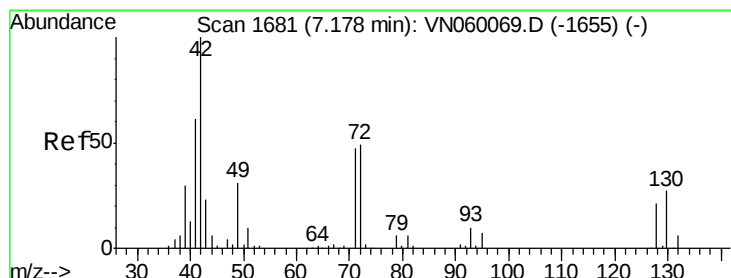
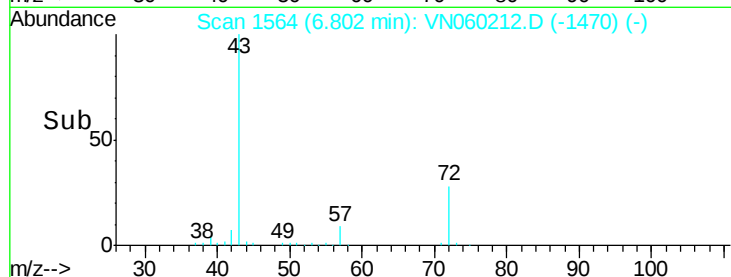
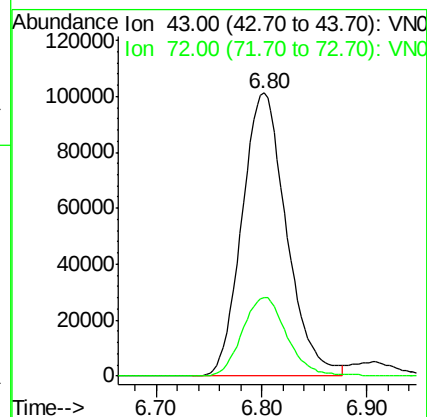
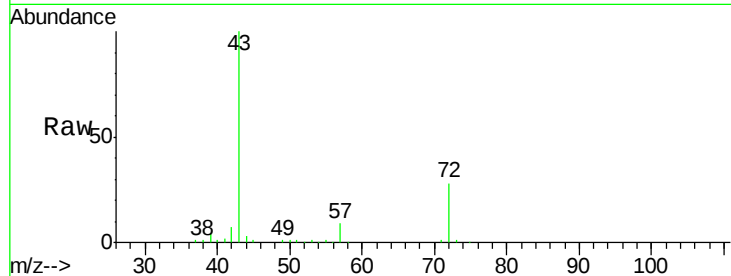




#25
2-Butanone
Concen: 233.70 ug/l
RT: 6.80 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VN060212.D
Acq: 24 Feb 2020 16:02

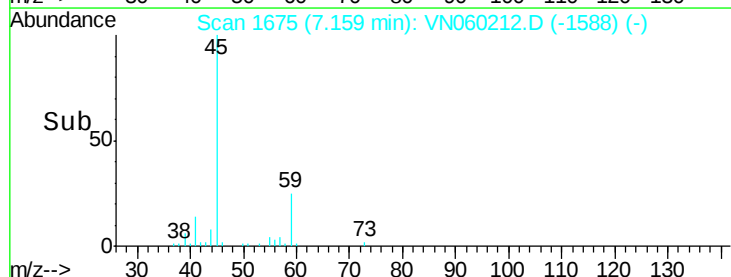
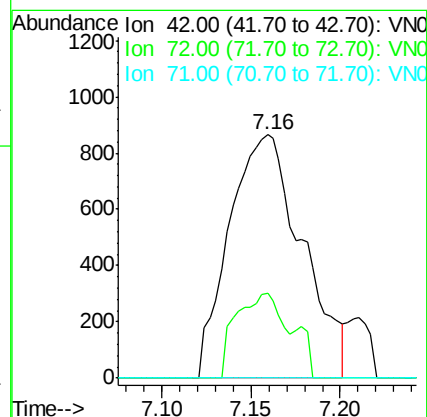
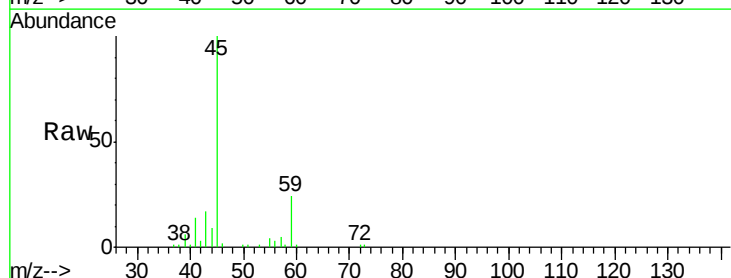
Instrument :
MSVOA_N
ClientSampleId :
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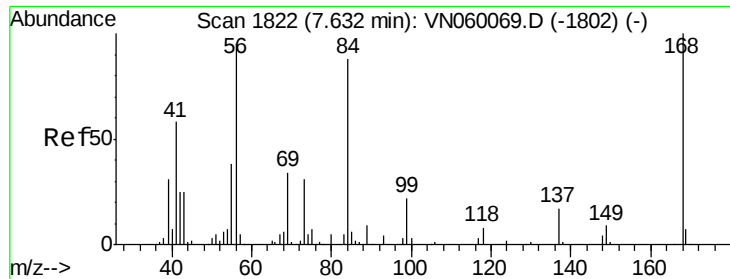
Tgt Ion: 43 Resp: 297076
Ion Ratio Lower Upper
43 100
72 28.0 23.3 34.9



#29
Tetrahydrofuran
Concen: 3.15 ug/l
RT: 7.16 min Scan# 1675
Delta R.T. -0.02 min
Lab File: VN060212.D
Acq: 24 Feb 2020 16:02

Tgt Ion: 42 Resp: 2457
Ion Ratio Lower Upper
42 100
72 22.3 38.2 57.4#
71 0.0 36.6 54.8#

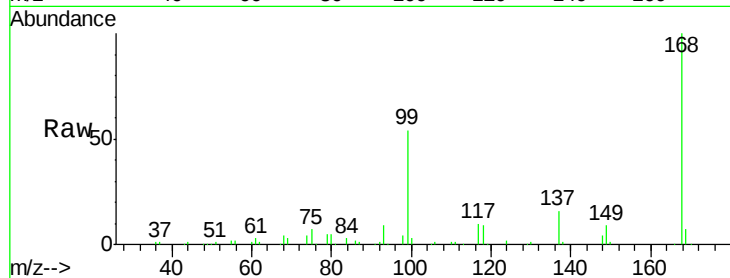




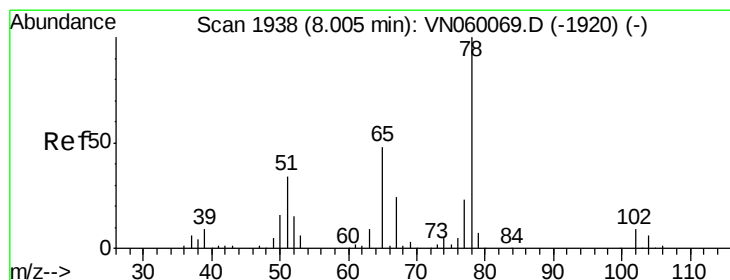
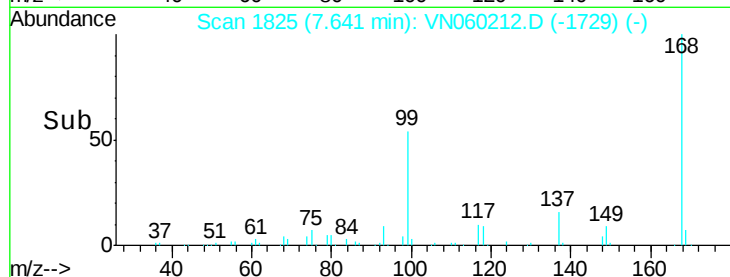
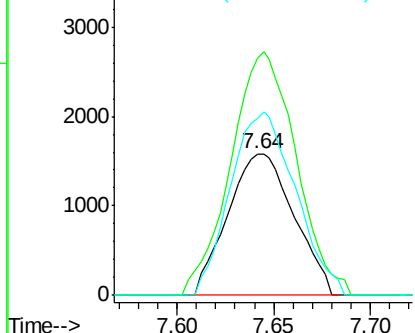
#31
Cyclohexane
Concen: 1.15 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060212.D
Acq: 24 Feb 2020 16:02

Instrument :
MSVOA_N
ClientSampleId :
STOCKPILEDL

Tgt Ion: 56 Resp: 3757
Ion Ratio Lower Upper
56 100
69 156.2 28.3 42.5#
84 125.2 72.6 108.8#

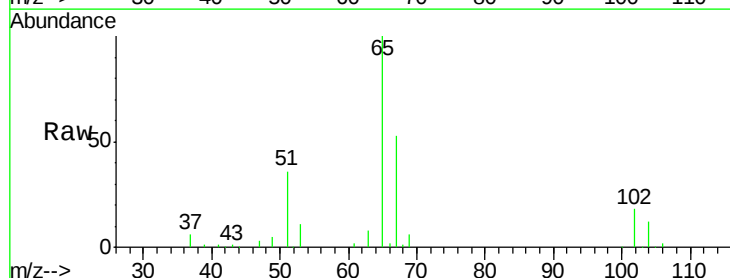


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

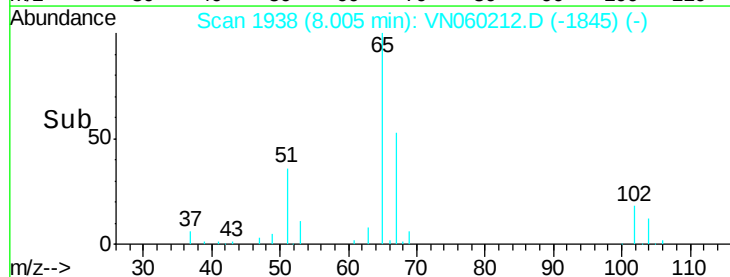
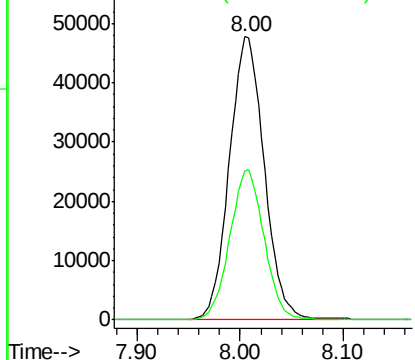


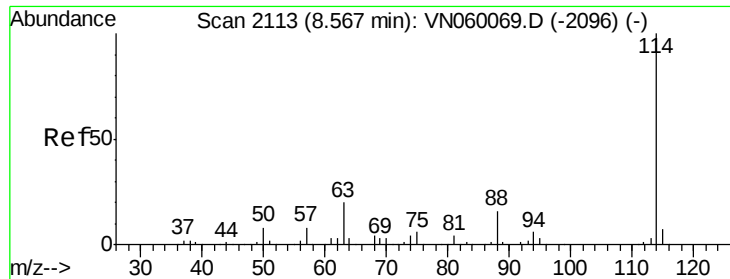
#33
1,2-Dichloroethane-d4
Concen: 48.57 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060212.D
Acq: 24 Feb 2020 16:02

Tgt Ion: 65 Resp: 112543
Ion Ratio Lower Upper
65 100
67 51.9 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

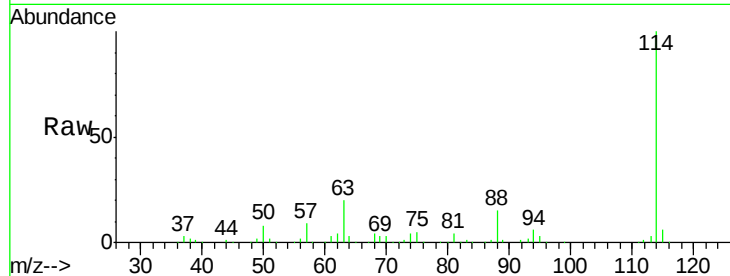




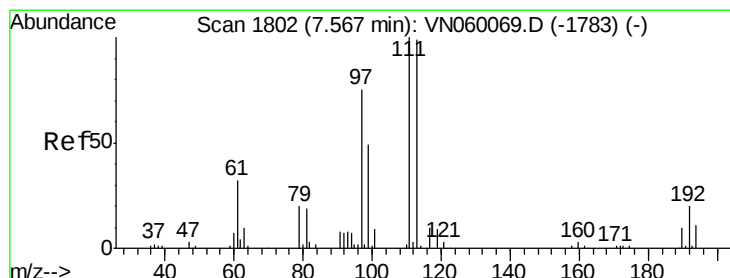
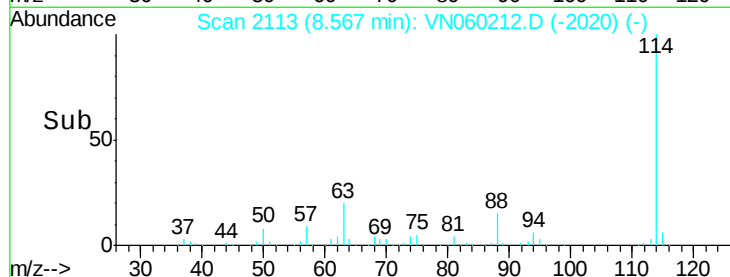
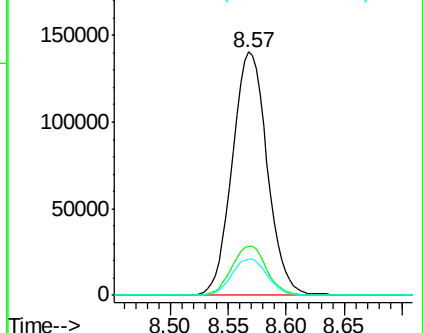
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060212.D
 Acq: 24 Feb 2020 16:02

Instrument :
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 ClientSampleId :
 STOCKPILEDL

Tgt Ion:114 Resp: 293546
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 40.0
 88 15.1 0.0 31.6

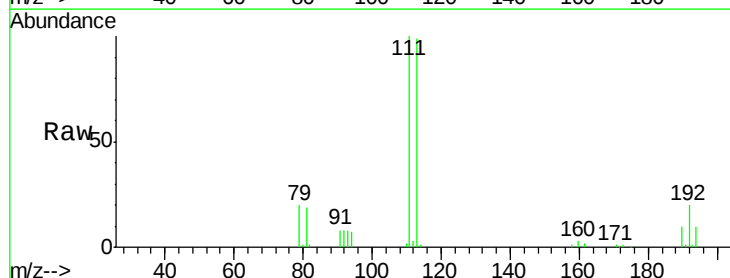


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

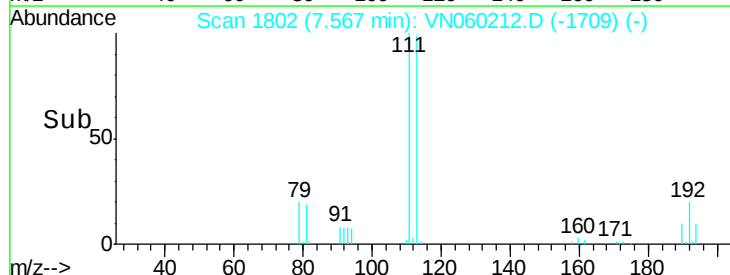
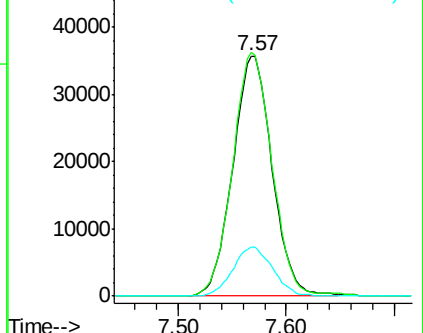


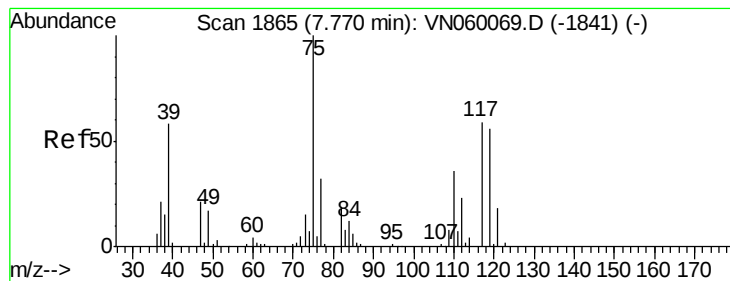
#35
 Dibromofluoromethane
 Concen: 50.18 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060212.D
 Acq: 24 Feb 2020 16:02

Tgt Ion:113 Resp: 90551
 Ion Ratio Lower Upper
 113 100
 111 101.2 81.4 122.2
 192 20.5 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

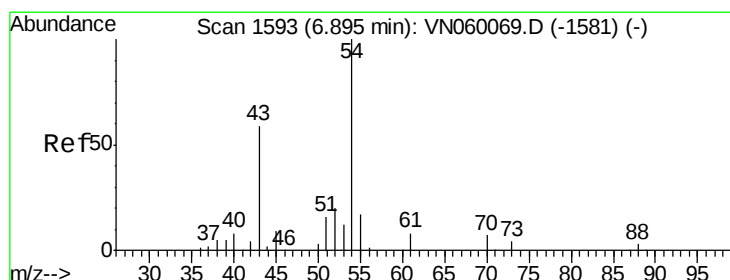
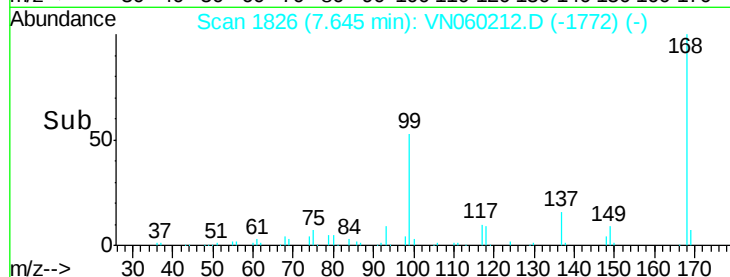
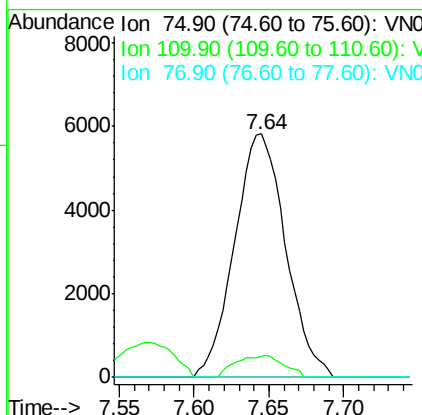
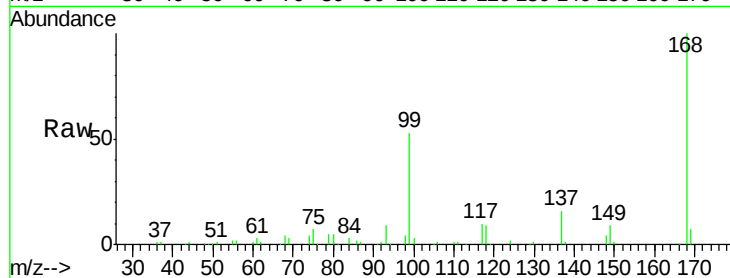




#36
 1,1-Dichloropropene
 Concen: 5.09 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060212.D
 Acq: 24 Feb 2020 16:02

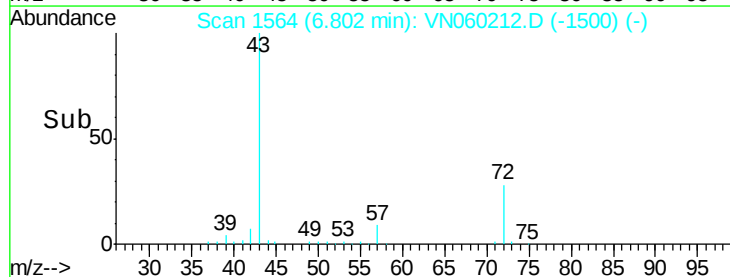
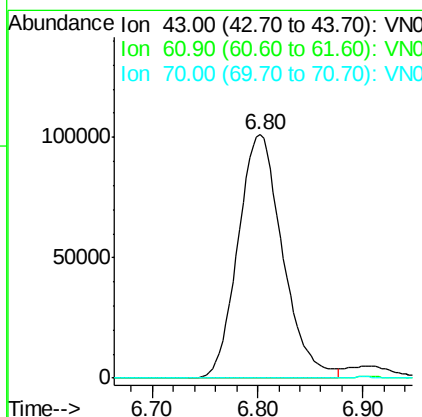
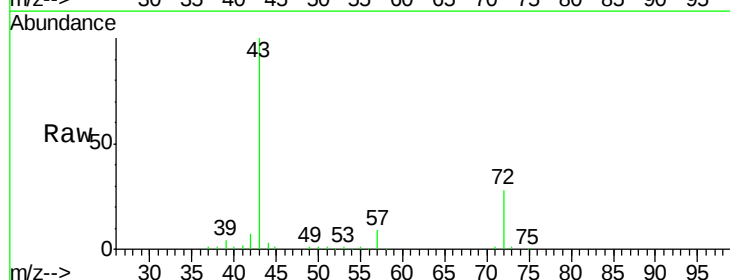
Instrument :
 MSVOA_N
 ClientSampleId :
 STOCKPILEDL

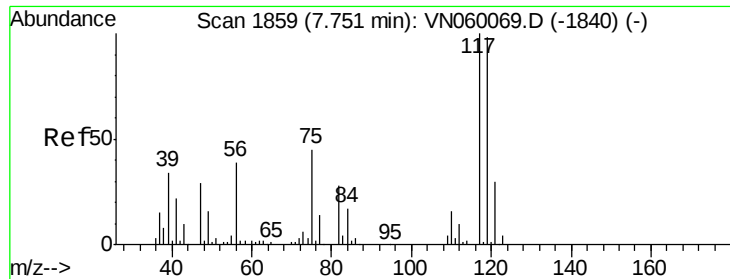
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.1	54.3#
77	0.0	25.1	37.7#



#37
 Ethyl Acetate
 Concen: 120.90 ug/l
 RT: 6.80 min Scan# 1564
 Delta R.T. -0.09 min
 Lab File: VN060212.D
 Acq: 24 Feb 2020 16:02

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

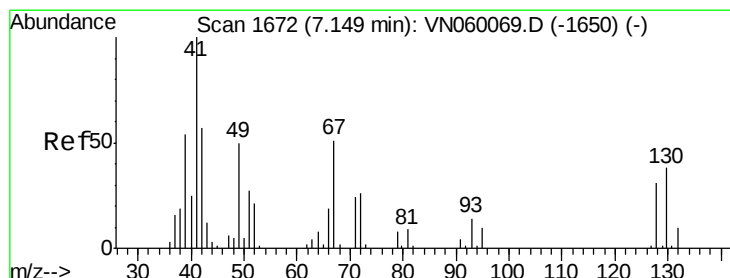
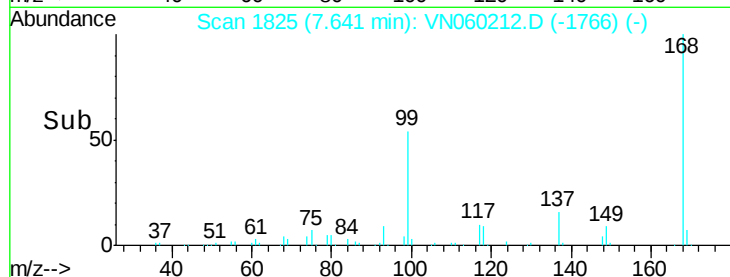
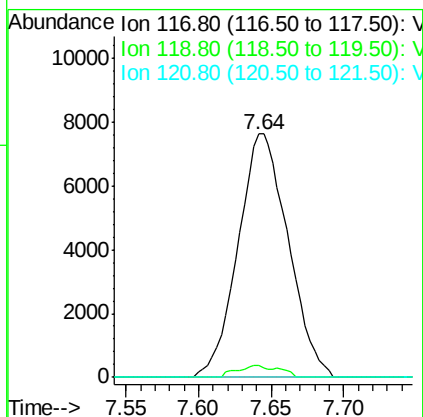
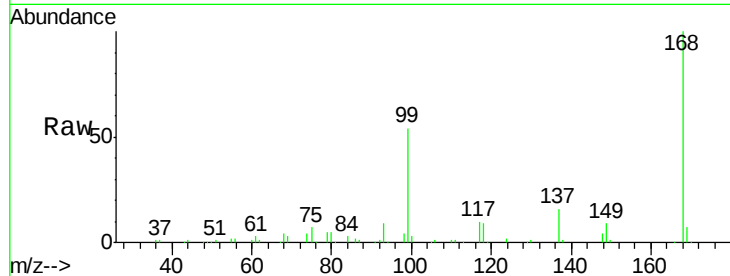




#38
Carbon Tetrachloride
Concen: 6.20 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060212.D
Acq: 24 Feb 2020 16:02

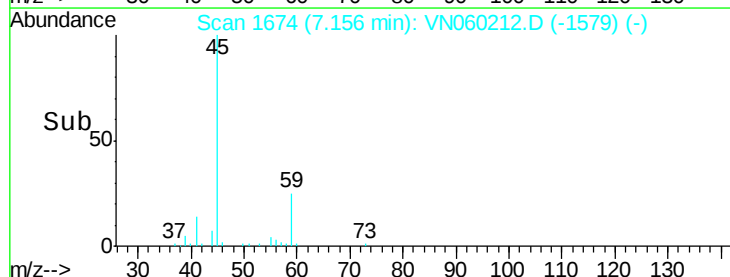
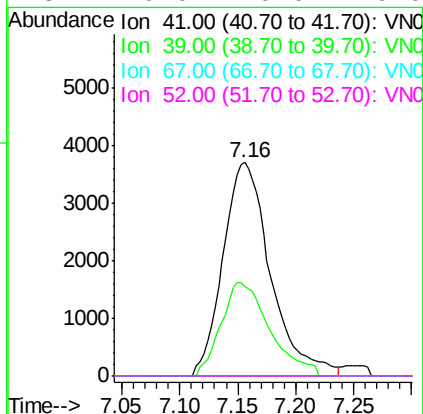
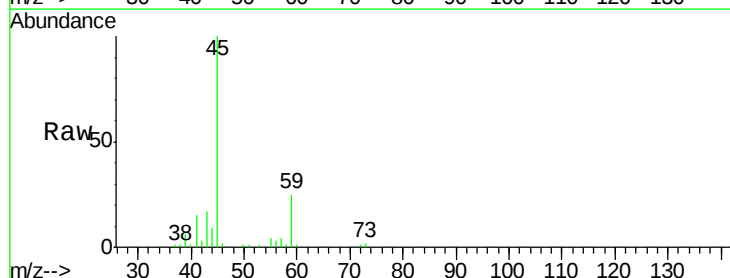
Instrument :
MSVOA_N
ClientSampleId :
STOCKPILEDL

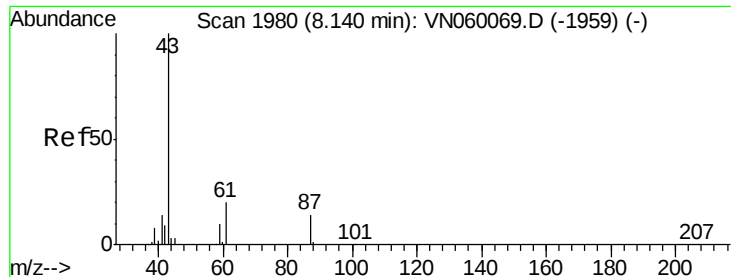
Tgt Ion: 117 Resp: 18316
Ion Ratio Lower Upper
117 100
119 4.7 78.2 117.4#
121 0.0 24.2 36.2#



#41
Methacrylonitrile
Concen: 10.20 ug/l
RT: 7.16 min Scan# 1674
Delta R.T. 0.01 min
Lab File: VN060212.D
Acq: 24 Feb 2020 16:02

Tgt Ion: 41 Resp: 10512
Ion Ratio Lower Upper
41 100
39 45.1 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0





#43

Isopropyl Acetate

Concen: 1.97 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060212.D

Acq: 24 Feb 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

STOCKPILEDL

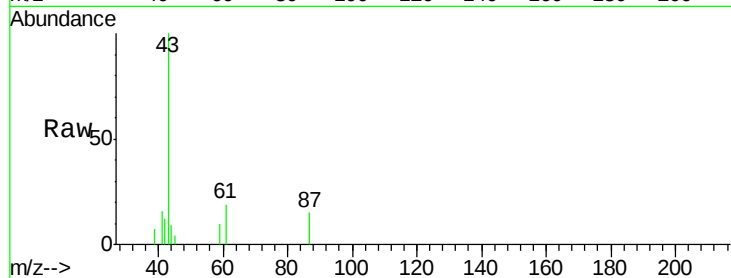
Tgt Ion: 43 Resp: 8289

Ion Ratio Lower Upper

43 100

61 18.1 21.8 32.6#

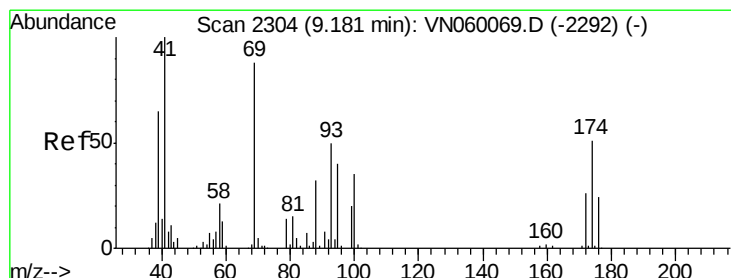
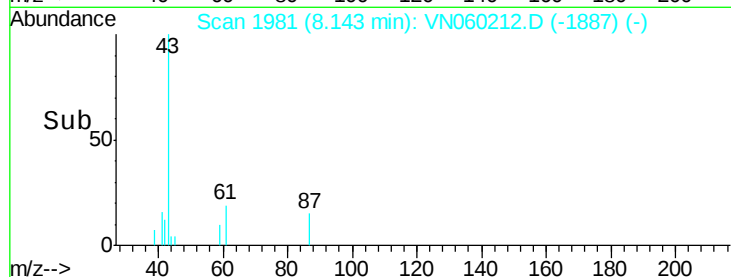
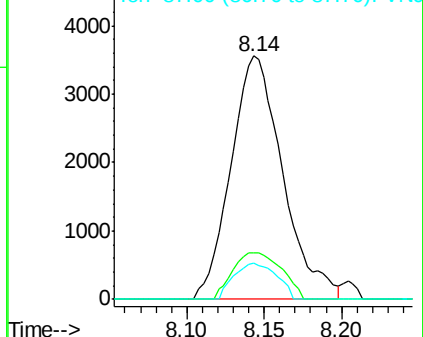
87 12.2 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-1959) (-)

Ion 61.00 (60.70 to 61.70): VN060069.D (-1959) (-)

Ion 87.00 (86.70 to 87.70): VN060069.D (-1959) (-)



#48

Methyl methacrylate

Concen: 0.57 ug/l

RT: 9.17 min Scan# 2300

Delta R.T. -0.01 min

Lab File: VN060212.D

Acq: 24 Feb 2020 16:02

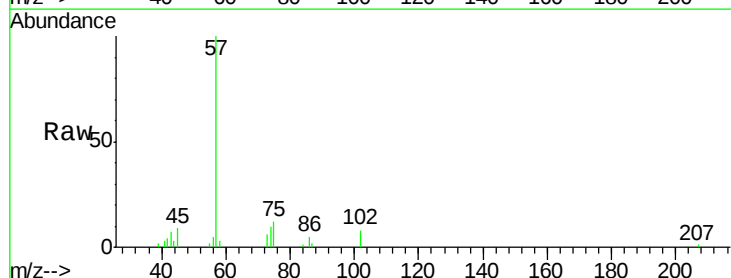
Tgt Ion: 41 Resp: 1065

Ion Ratio Lower Upper

41 100

69 0.0 72.0 108.0#

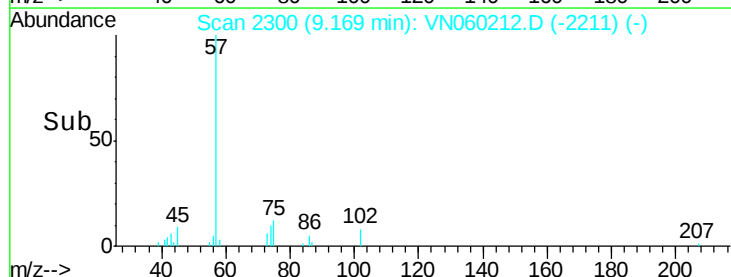
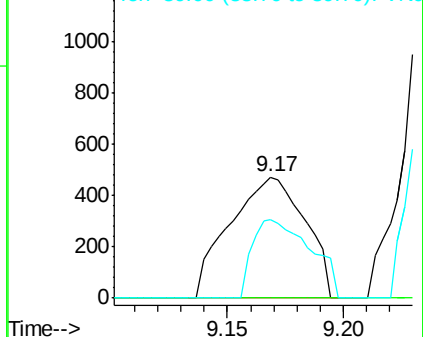
39 49.9 54.1 81.1#

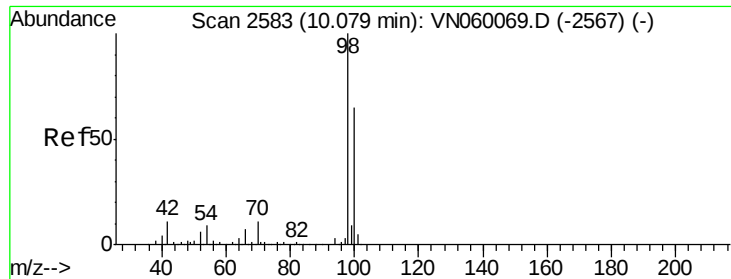


Abundance Ion 41.00 (40.70 to 41.70): VN060069.D (-2292) (-)

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

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

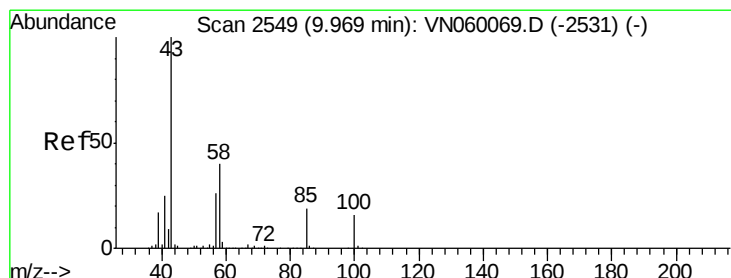
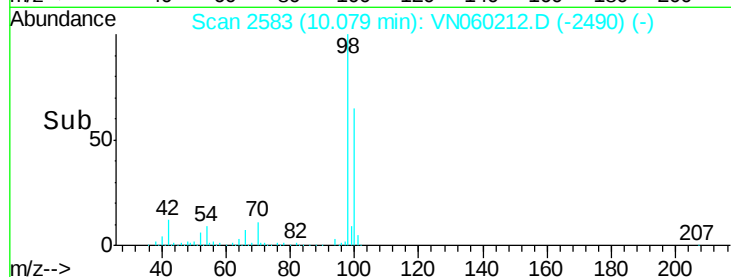
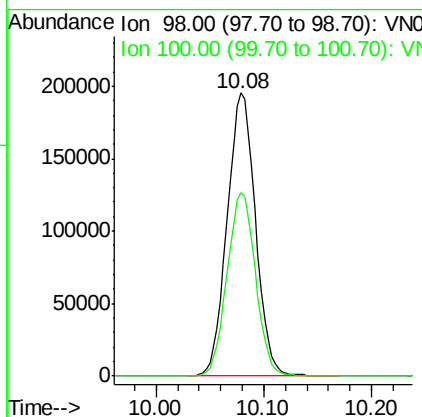
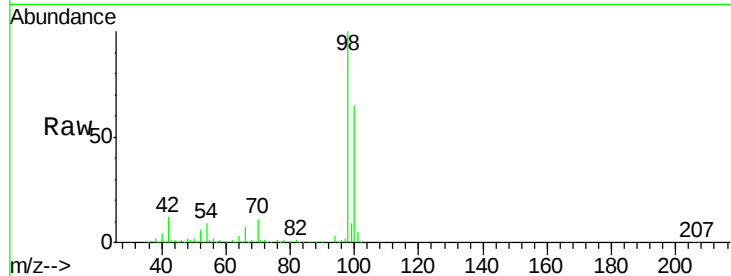




#50
Toluene-d8
Concen: 50.39 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060212.D
Acq: 24 Feb 2020 16:02

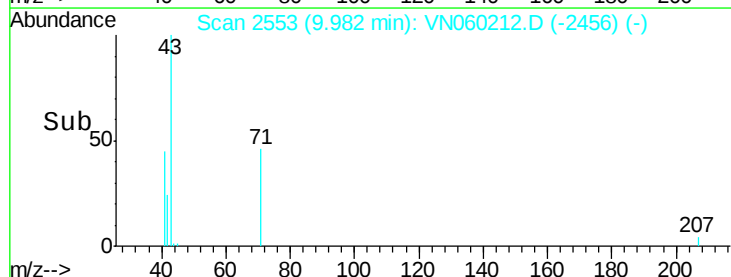
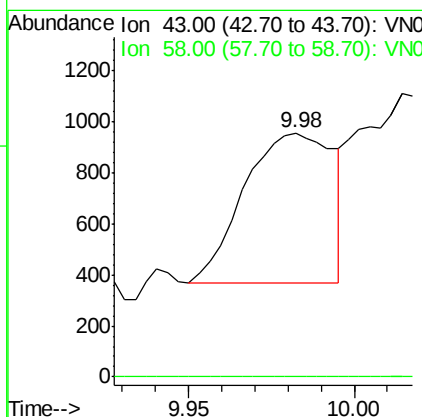
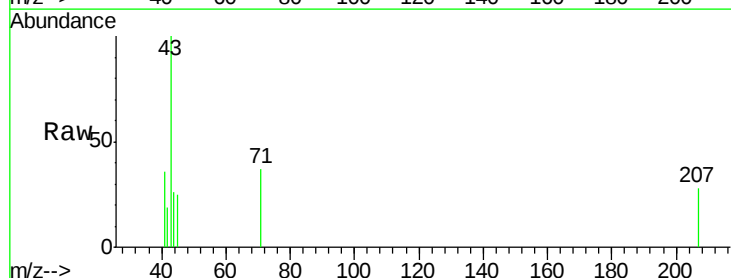
Instrument :
MSVOA_N
ClientSampled :
STOCKPILEDL

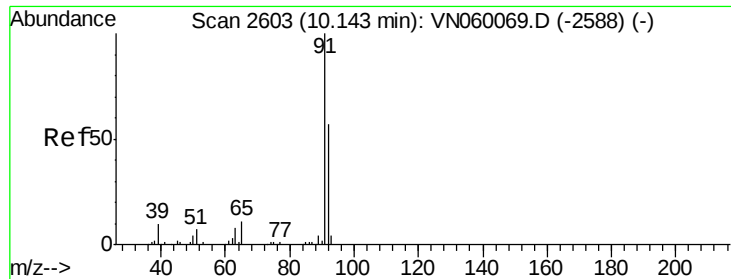
Tgt Ion: 98 Resp: 358062
Ion Ratio Lower Upper
98 100
100 65.0 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 0.45 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. 0.01 min
Lab File: VN060212.D
Acq: 24 Feb 2020 16:02

Tgt Ion: 43 Resp: 1101
Ion Ratio Lower Upper
43 100
58 0.0 31.8 47.8#





#52

Toluene

Concen: 2.42 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN060212.D

Acq: 24 Feb 2020 16:02

Instrument :

MSVOA_N

ClientSampled :

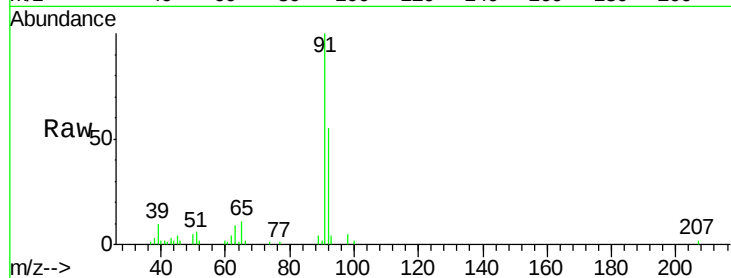
STOCKPILEDL

Tgt Ion: 92 Resp: 12540

Ion Ratio Lower Upper

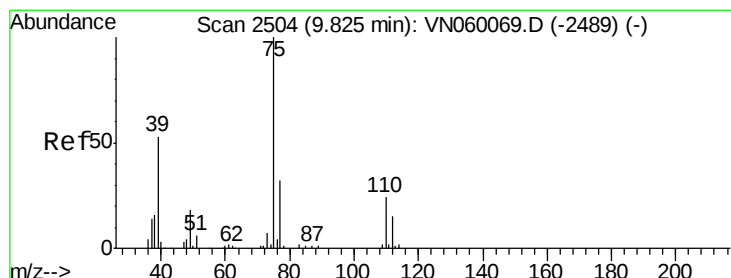
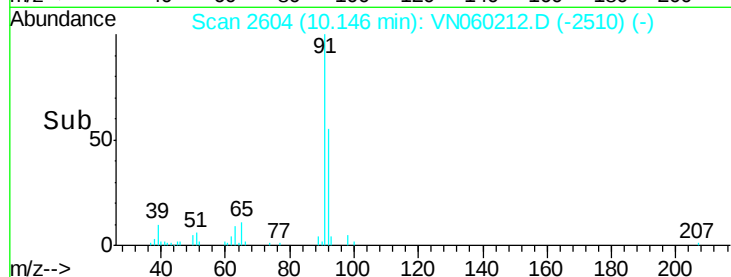
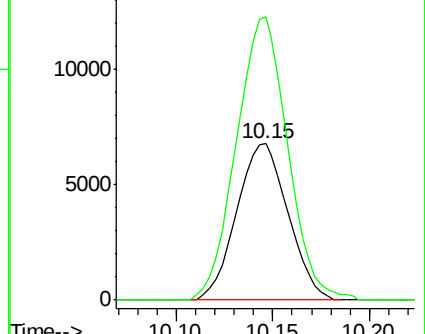
92 100

91 180.7 140.9 211.3



Abundance Ion 92.00 (91.70 to 92.70): VN060212.D (-2510) (-)

Ion 91.00 (90.70 to 91.70): VN060212.D (-2510) (-)



#54

cis-1,3-Dichloropropene

Concen: 0.98 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060212.D

Acq: 24 Feb 2020 16:02

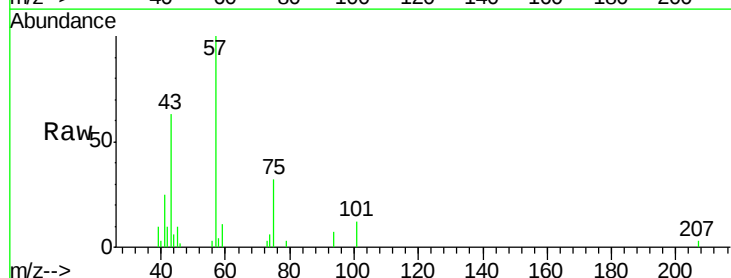
Tgt Ion: 75 Resp: 3330

Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

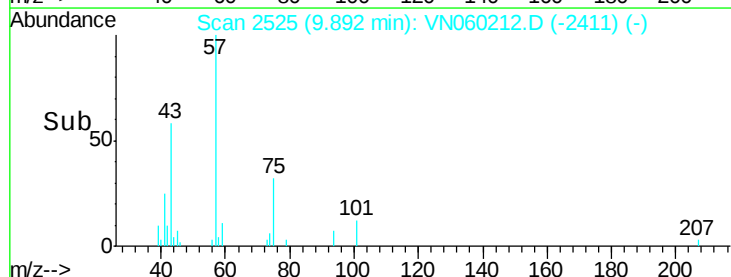
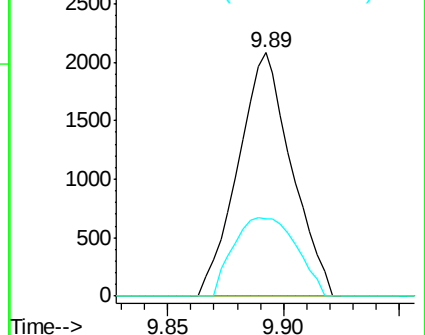
39 31.9 42.2 63.4#

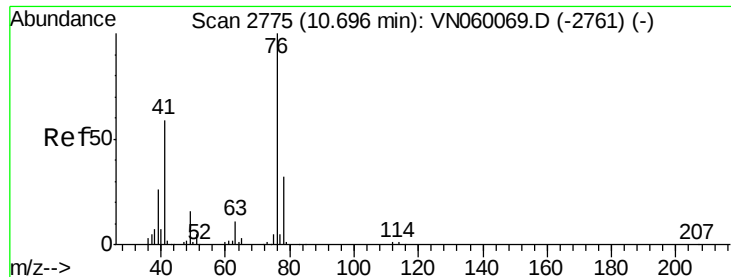


Abundance Ion 74.90 (74.60 to 75.60): VN060212.D (-2411) (-)

Ion 76.90 (76.60 to 77.60): VN060212.D (-2411) (-)

Ion 39.00 (38.70 to 39.70): VN060212.D (-2411) (-)

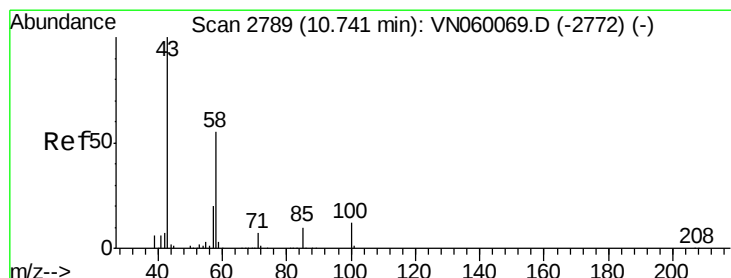
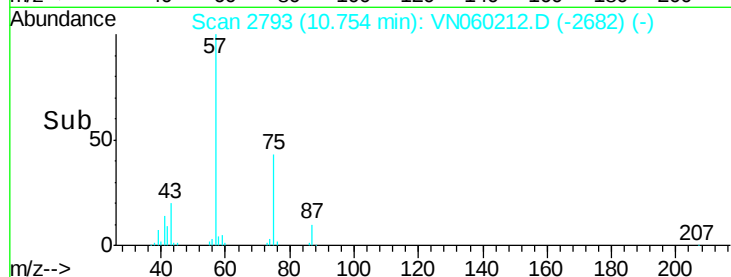
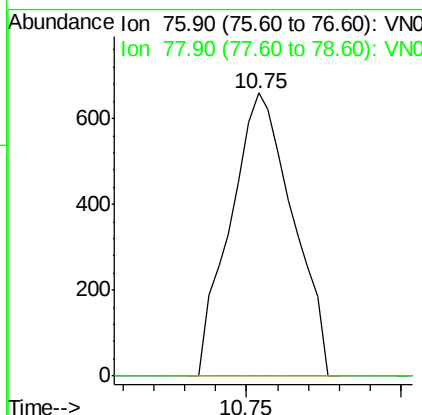
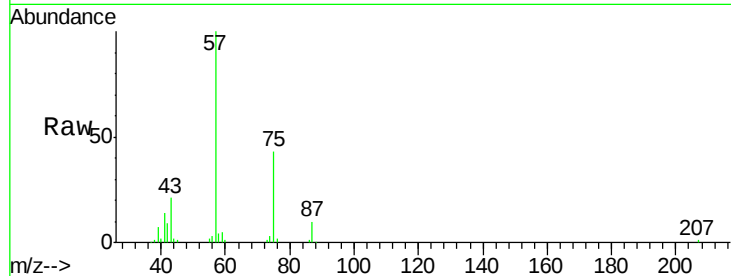




#57
 1,3-Dichloropropane
 Concen: 0.28 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060212.D
 Acq: 24 Feb 2020 16:02

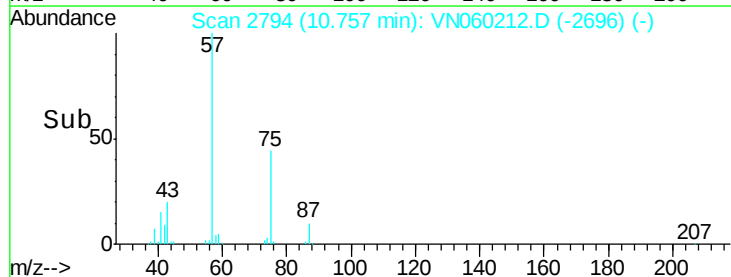
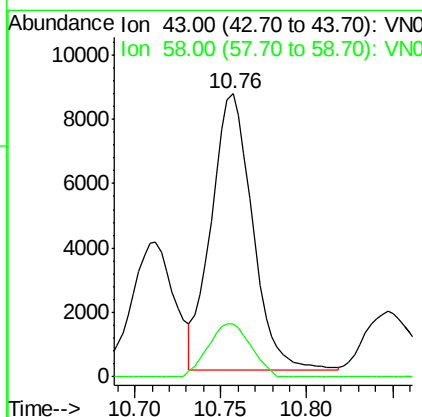
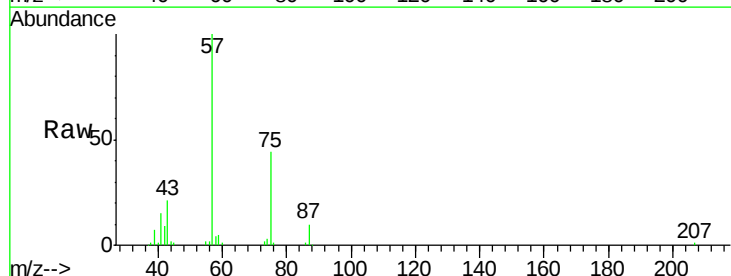
Instrument :
 MSVOA_N
 ClientSampleId :
 STOCKPILEDL

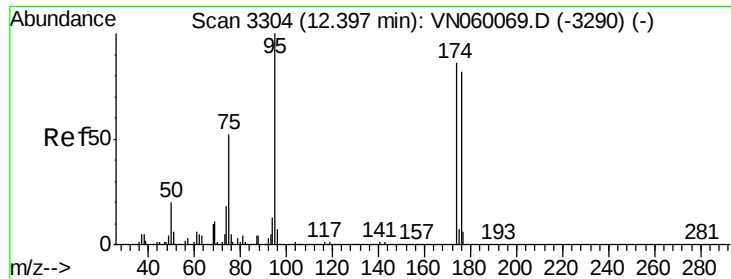
Tgt Ion: 76 Resp: 923
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 7.61 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.02 min
 Lab File: VN060212.D
 Acq: 24 Feb 2020 16:02

Tgt Ion: 43 Resp: 14285
 Ion Ratio Lower Upper
 43 100
 58 19.9 27.5 82.4#





#62

4-Bromofluorobenzene

Concen: 49.46 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060212.D

Acq: 24 Feb 2020 16:02

Instrument :

MSVOA_N

ClientSampled :

STOCKPILEDL

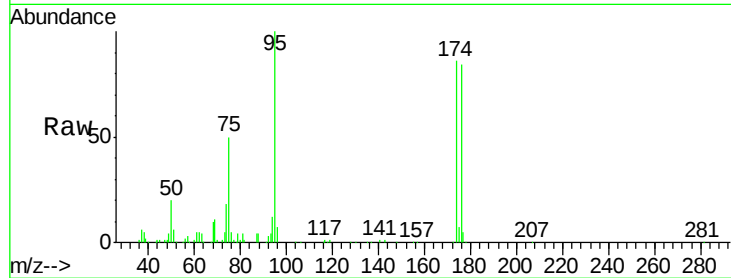
Tgt Ion: 95 Resp: 129148

Ion Ratio Lower Upper

95 100

174 86.7 0.0 169.8

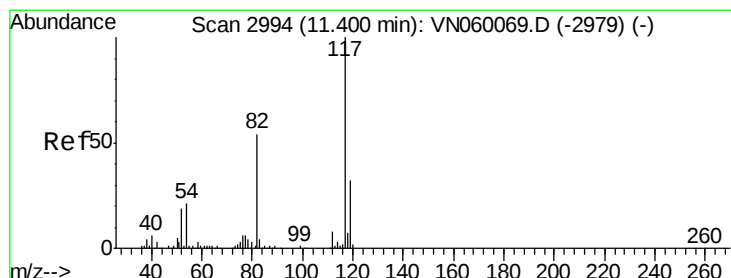
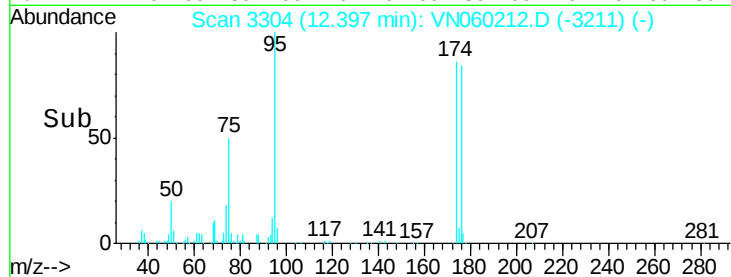
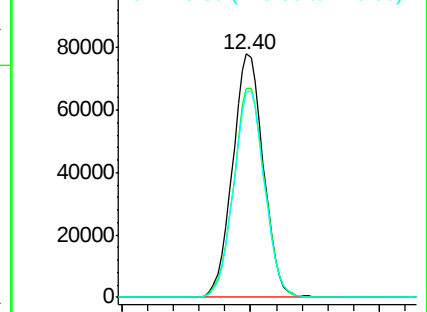
176 84.7 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN060212.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060212.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060212.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060212.D

Acq: 24 Feb 2020 16:02

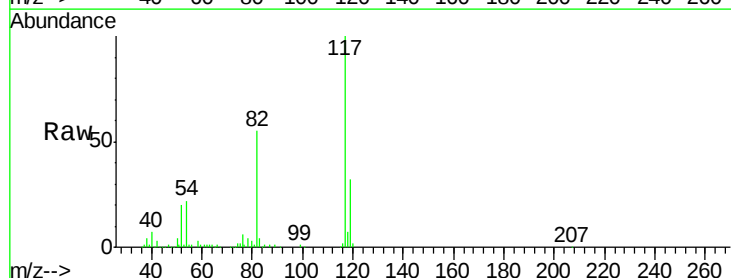
Tgt Ion: 117 Resp: 280498

Ion Ratio Lower Upper

117 100

82 54.7 43.4 65.0

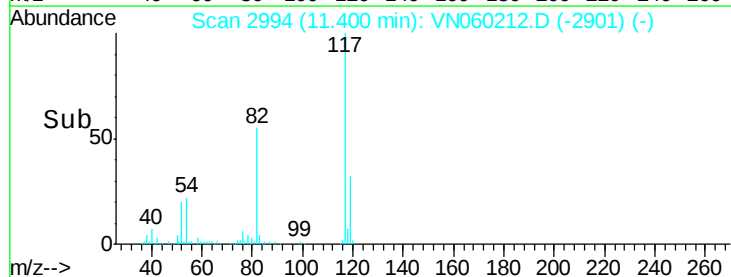
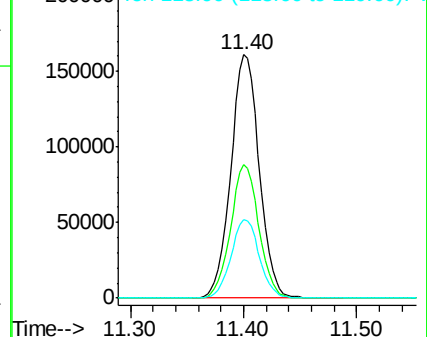
119 32.2 25.8 38.6

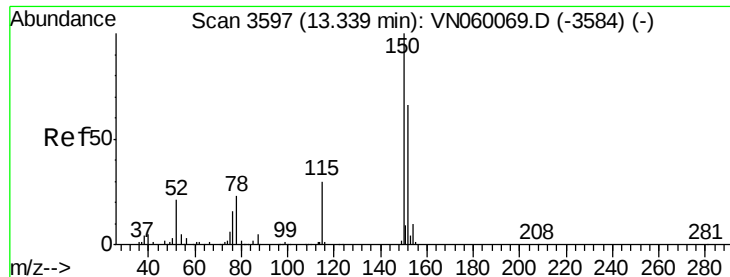


Abundance Ion 116.90 (116.60 to 117.60): VN060212.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060212.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060212.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: VN060212.D

Acq: 24 Feb 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

STOCKPILEDL

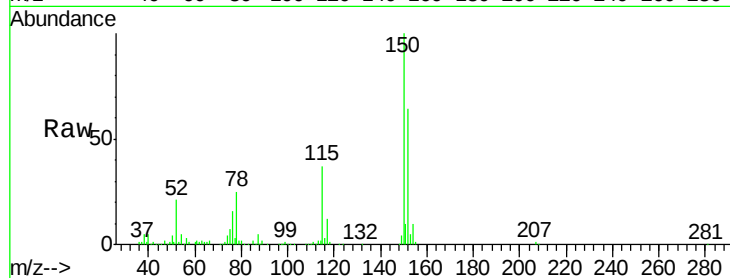
Tgt Ion:152 Resp: 126246

Ion Ratio Lower Upper

152 100

115 57.5 28.9 86.8

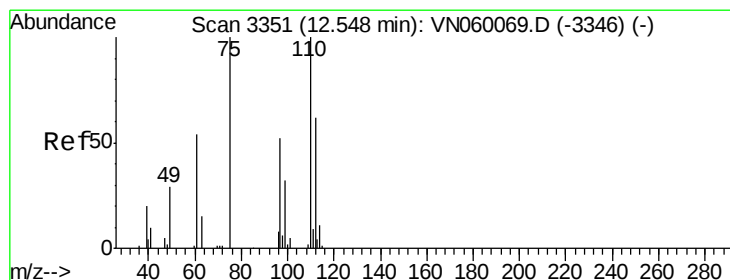
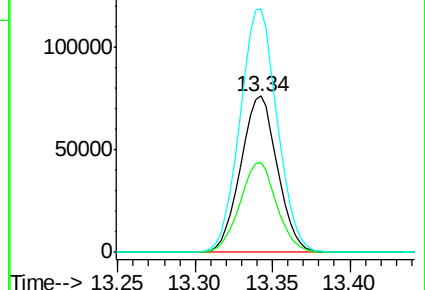
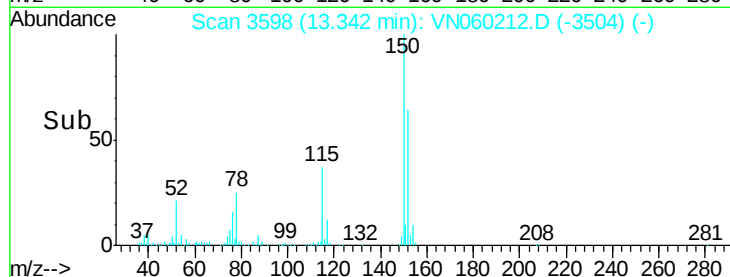
150 158.0 0.0 342.4



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



#76

1,2,3-Trichloropropane

Concen: 27.18 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060212.D

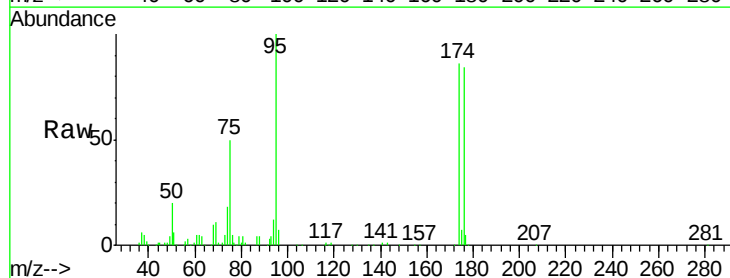
Acq: 24 Feb 2020 16:02

Tgt Ion: 75 Resp: 65660

Ion Ratio Lower Upper

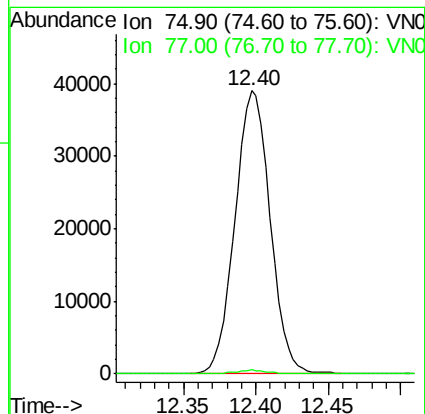
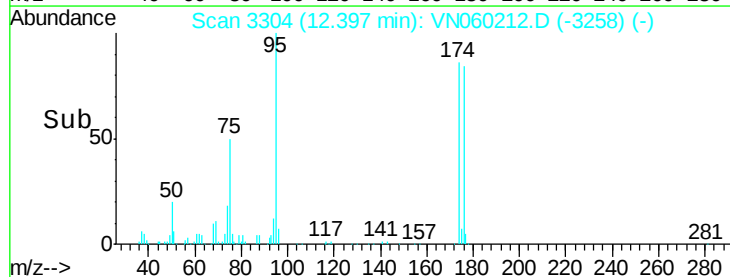
75 100

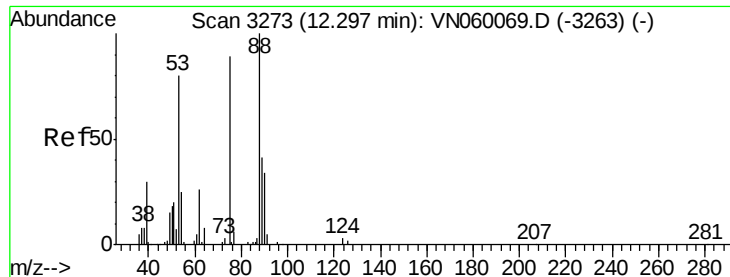
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 66.56 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060212.D

Acq: 24 Feb 2020 16:02

Instrument :

MSVOA_N

ClientSampleId :

STOCKPILEDL

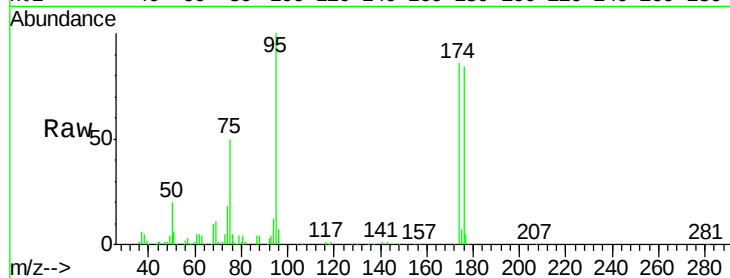
Tgt Ion: 75 Resp: 65660

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

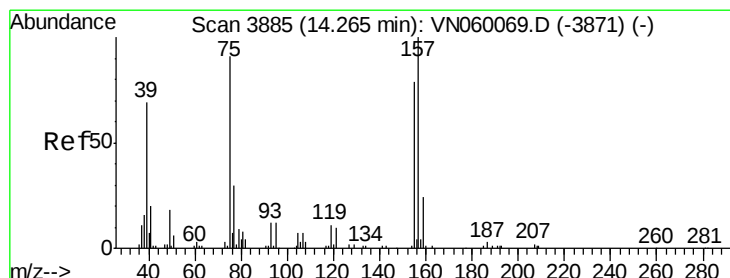
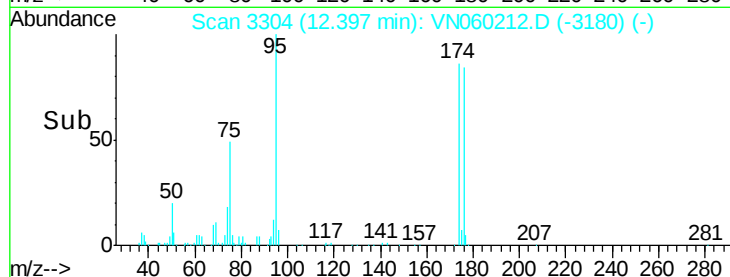
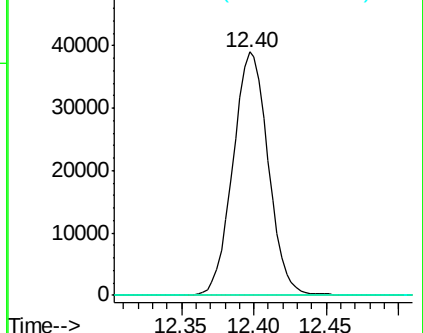
89 0.0 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3882

Delta R.T. -0.01 min

Lab File: VN060212.D

Acq: 24 Feb 2020 16:02

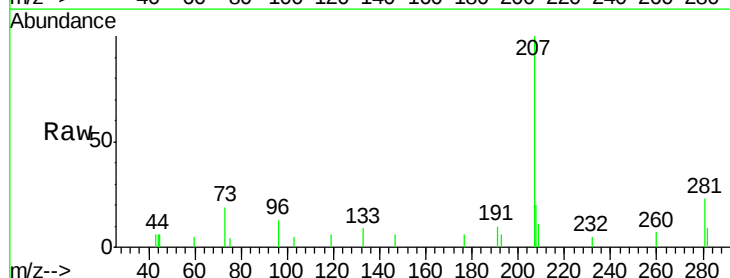
Tgt Ion: 75 Resp: 89

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.0#

157 0.0 54.9 164.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

