

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031320\
 Data File : VN060510.D
 Acq On : 13 Mar 2020 18:05
 Operator : JC/MD
 Sample : L1907-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 16 04:31:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	212677	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	356004	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	340687	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	158938	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	139094	50.97	ug/l	0.00
Spiked Amount			Recovery	=	101.94%	
35) Dibromofluoromethane	7.56	113	104665	63.34	ug/l	0.00
Spiked Amount			Recovery	=	126.68%	
50) Toluene-d8	10.08	98	440575	52.68	ug/l	0.00
Spiked Amount			Recovery	=	105.36%	
62) 4-Bromofluorobenzene	12.40	95	166622	52.56	ug/l	0.00
Spiked Amount			Recovery	=	105.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	7729	8.771	ug/l	92
18) Methyl Acetate	4.30	43	1967	0.669	ug/l #	59
20) Methylene Chloride	4.52	84	5538	2.288	ug/l	94
25) 2-Butanone	6.80	43	508	0.357	ug/l #	49
31) Cyclohexane	7.64	56	4416	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	16611	4.896	ug/l #	49
38) Carbon Tetrachloride	7.64	117	20442	6.188	ug/l #	16
43) Isopropyl Acetate	8.14	43	63457	11.283	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1236	0.479	ug/l #	44
48) Methyl methacrylate	9.17	41	3204	1.249	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5113	1.603	ug/l	97
54) cis-1,3-Dichloropropene	9.89	75	26129	6.040	ug/l #	58
57) 1,3-Dichloropropane	10.75	76	4236	1.041	ug/l #	42
59) 2-Hexanone	10.75	43	62434	26.666	ug/l #	53
74) N-amyl acetate	12.02	43	3038	0.590	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	84617	24.266	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	84617	66.985	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.48	75	153	0.211	ug/l #	3
95) Naphthalene	15.13	128	422	Below Cal	#	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060510.D

Acq: 13 Mar 2020 18:05

Instrument :

MSVOA_N

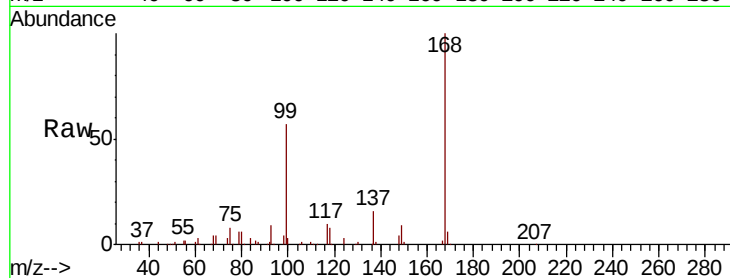
ClientSampled :

Tot Ion:168 Resp: 212677

Ion Ratio Lower Upper

168 100

99 57.0 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): VN060510.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060510.D (-1733) (-)

7.64

80000

60000

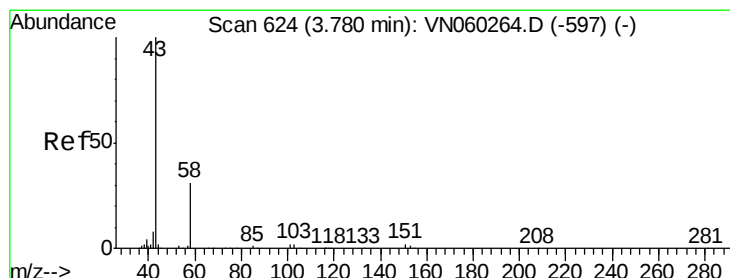
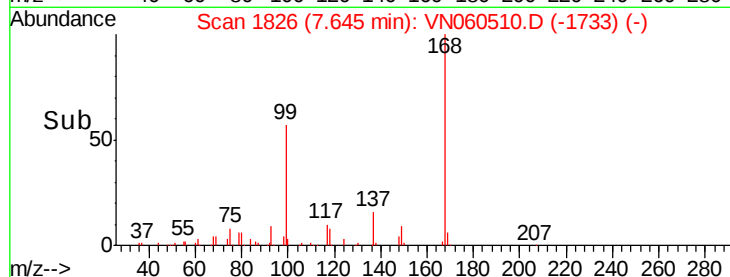
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 8.771 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060510.D

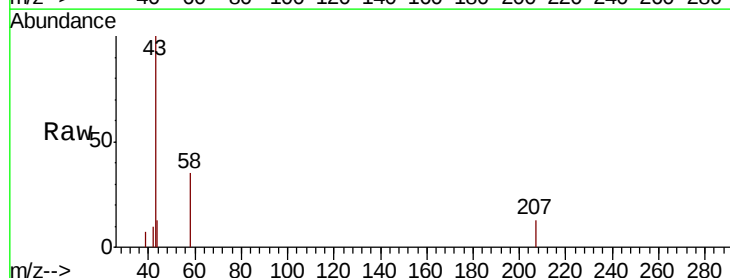
Acq: 13 Mar 2020 18:05

Tgt Ion: 43 Resp: 7729

Ion Ratio Lower Upper

43 100

58 34.9 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN060510.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060510.D (-531) (-)

3.79

3000

2500

2000

1500

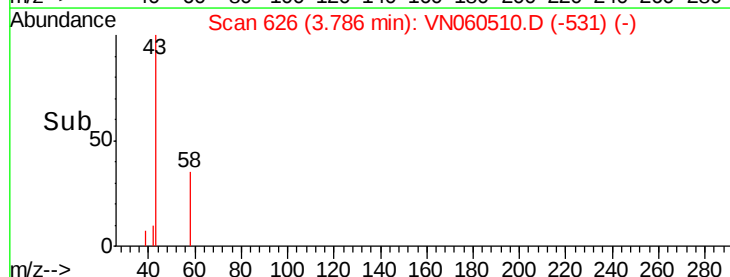
1000

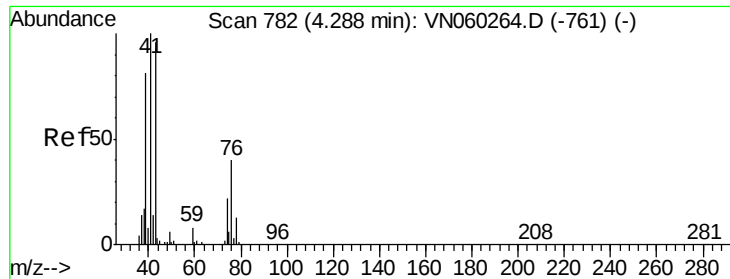
500

0

3.70 3.75 3.80 3.85

Time-->

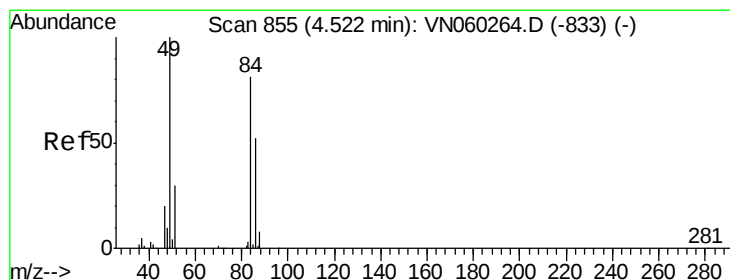
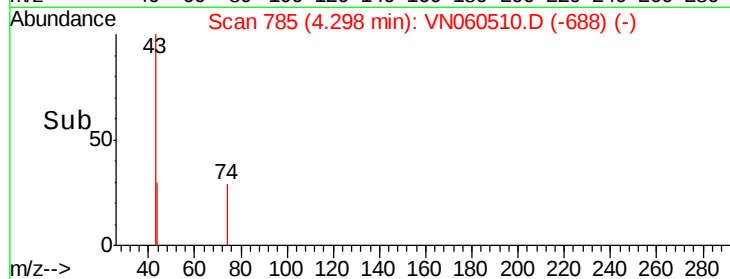
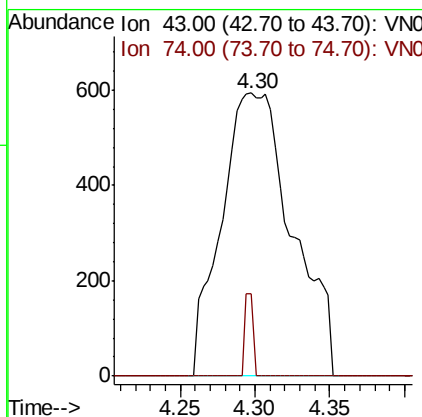
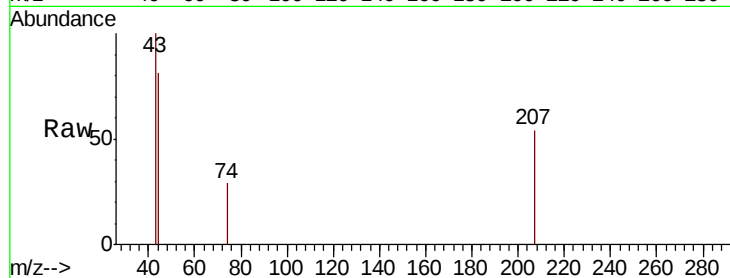




#18
Methyl Acetate
Concen: 0.669 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060510.D
Acq: 13 Mar 2020 18:05

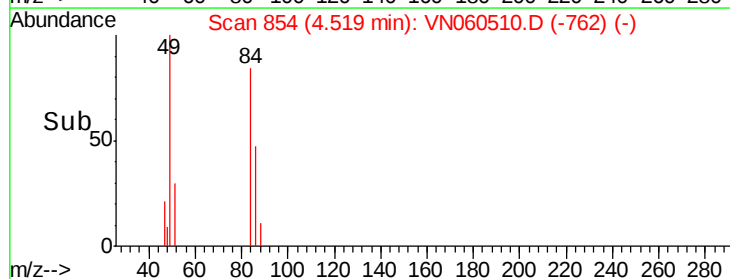
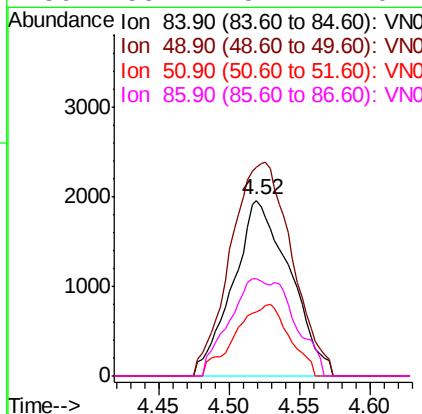
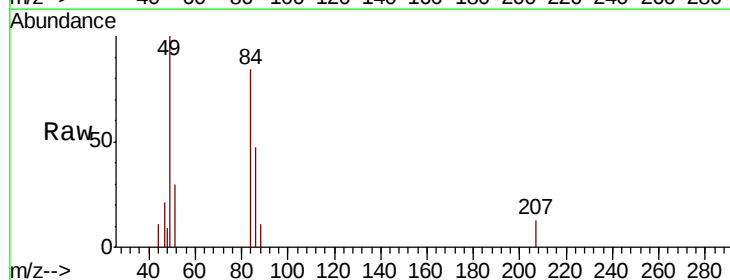
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1967
Ion Ratio Lower Upper
43 100
74 3.4 18.8 28.2#



#20
Methylene Chloride
Concen: 2.288 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060510.D
Acq: 13 Mar 2020 18:05

Tgt Ion: 84 Resp: 5538
Ion Ratio Lower Upper
84 100
49 118.9 99.3 148.9
51 36.2 30.1 45.1
86 55.4 51.1 76.7





#25

2-Butanone

Concen: 0.357 ug/l

RT: 6.80 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VN060510.D

Acq: 13 Mar 2020 18:05

Instrument :

MSVOA_N

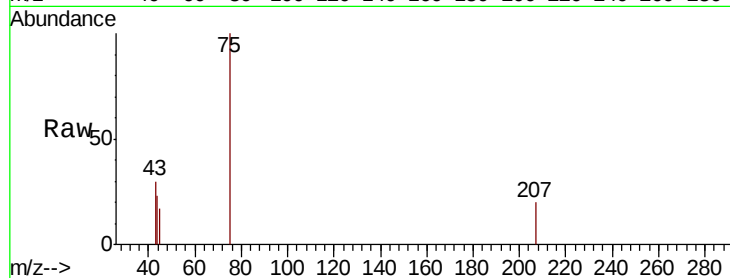
ClientSampled :

Tot Ion: 43 Resp: 508

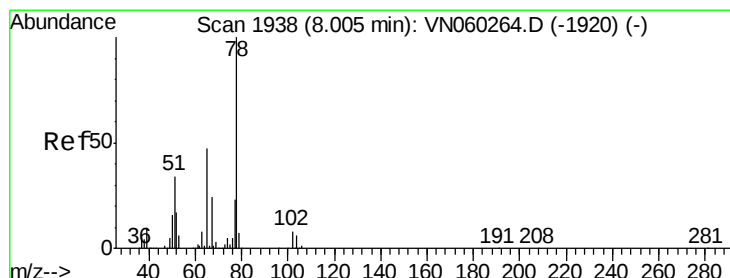
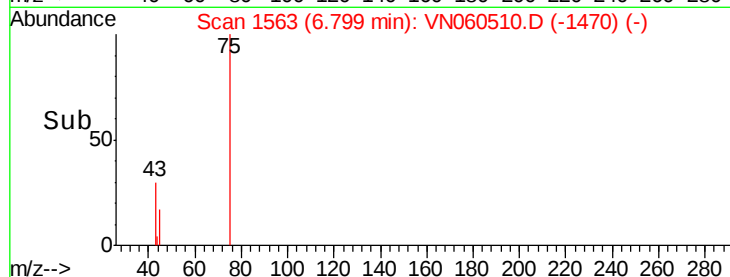
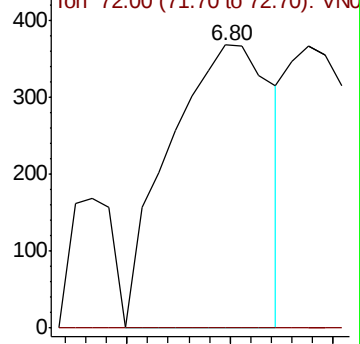
Ion Ratio Lower Upper

43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 50.975 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060510.D

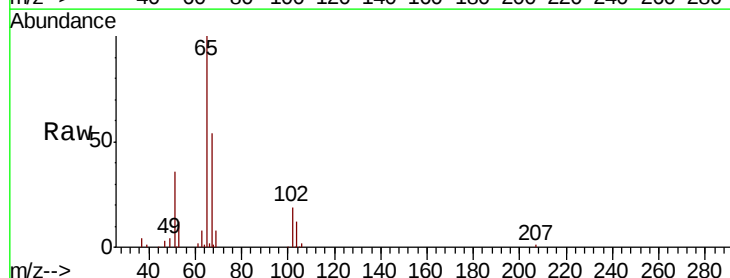
Acq: 13 Mar 2020 18:05

Tgt Ion: 65 Resp: 139094

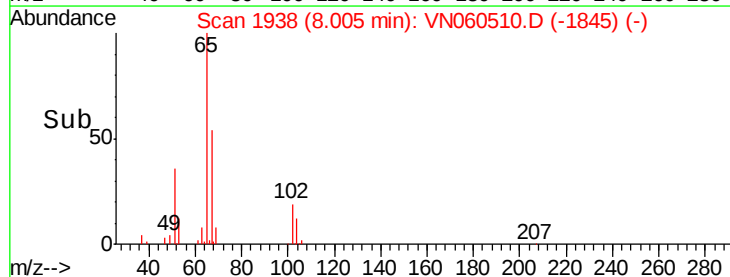
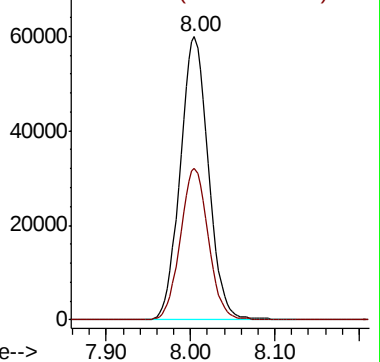
Ion Ratio Lower Upper

65 100

67 53.1 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

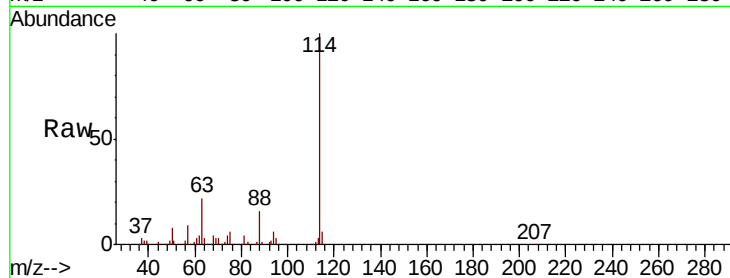




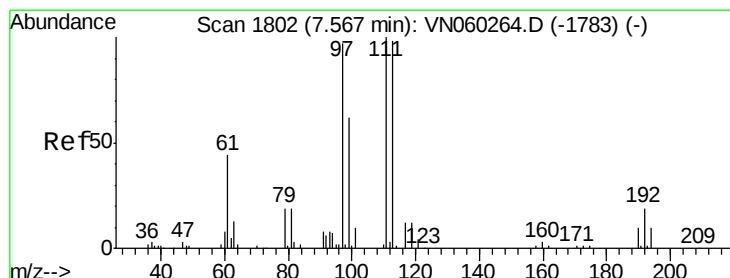
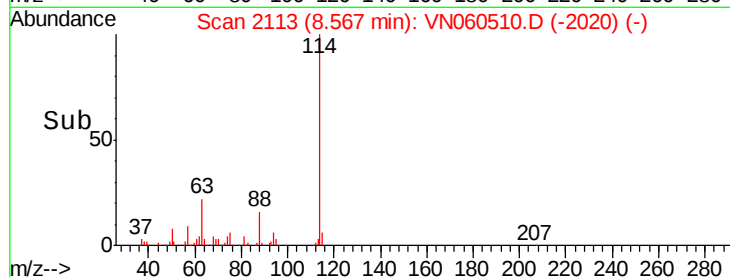
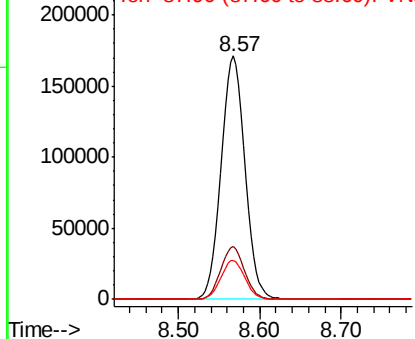
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN060510.D
Acq: 13 Mar 2020 18:05

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 356004
Ion Ratio Lower Upper
114 100
63 21.5 0.0 43.2
88 16.0 0.0 31.6

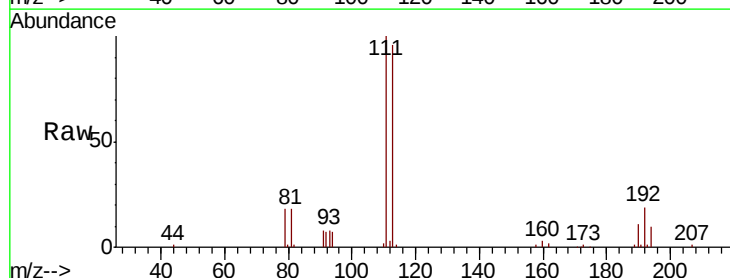


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

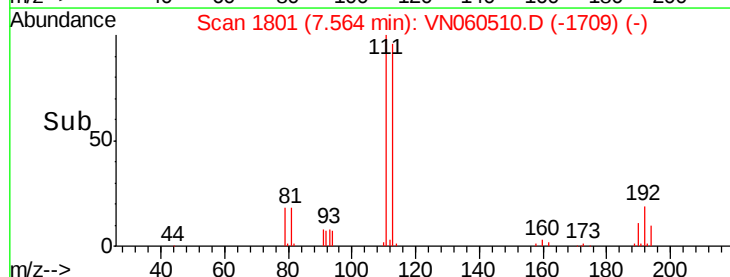
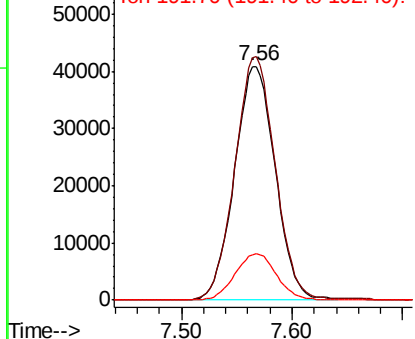


#35
Dibromofluoromethane
Concen: 63.339 ug/l
RT: 7.56 min Scan# 1801
Delta R.T. -0.00 min
Lab File: VN060510.D
Acq: 13 Mar 2020 18:05

Tgt Ion:113 Resp: 104665
Ion Ratio Lower Upper
113 100
111 103.7 82.4 123.6
192 20.1 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: 4.896 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060510.D

Acq: 13 Mar 2020 18:05

Instrument :

MSVOA_N

ClientSampleId :

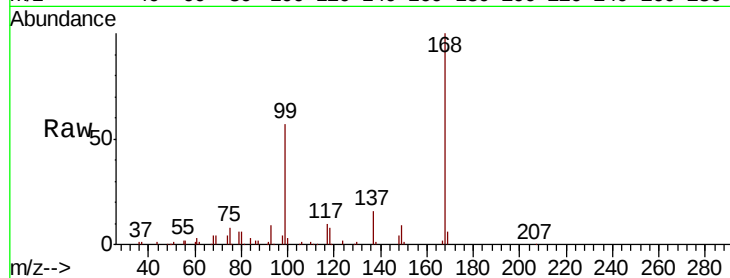
Tot Ion: 75 Resp: 16611

Ion Ratio Lower Upper

75 100

110 7.8 17.3 52.0#

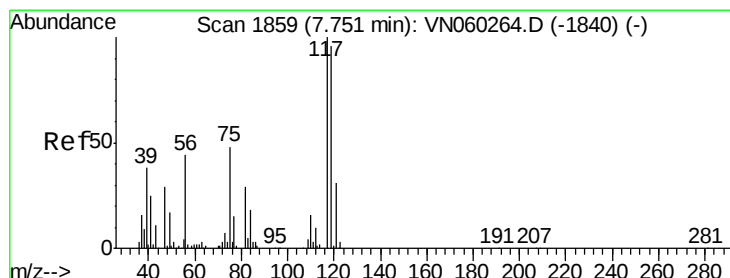
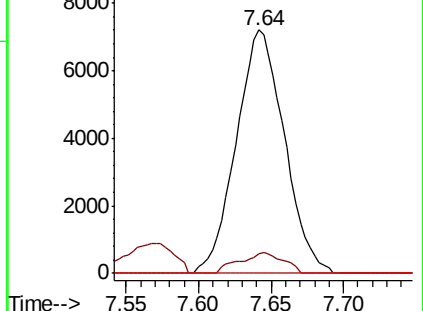
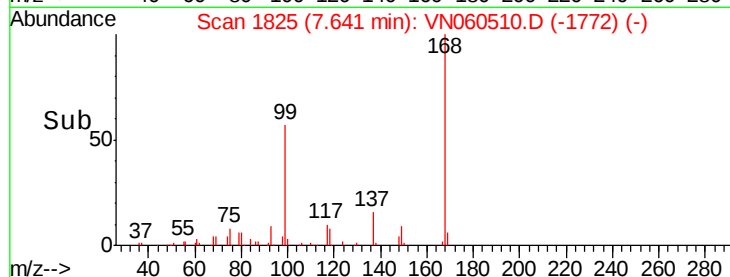
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060510.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN060510.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN060510.D (-1772) (-)



#38

Carbon Tetrachloride

Concen: 6.188 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060510.D

Acq: 13 Mar 2020 18:05

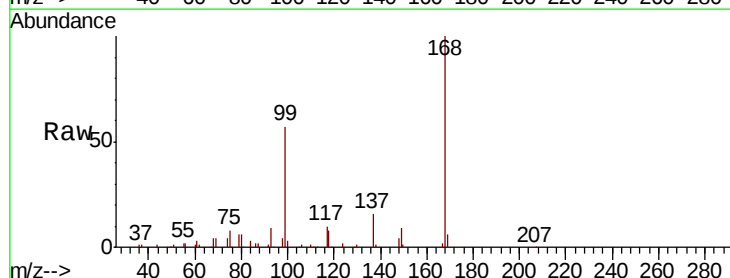
Tgt Ion: 117 Resp: 20442

Ion Ratio Lower Upper

117 100

119 4.6 76.7 115.1#

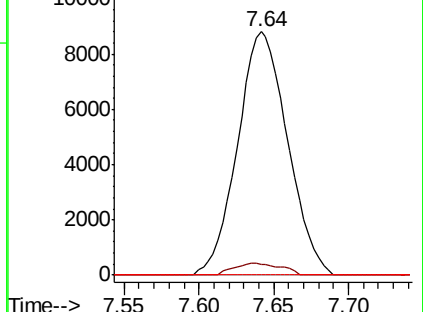
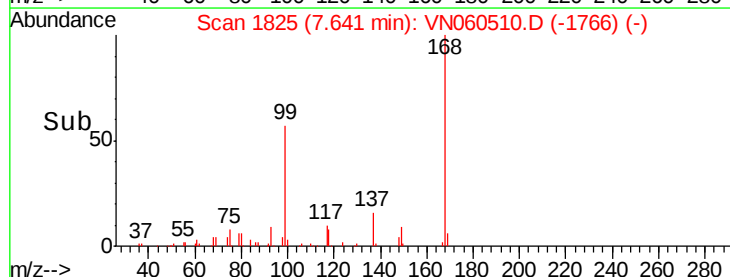
121 0.0 24.5 36.7#

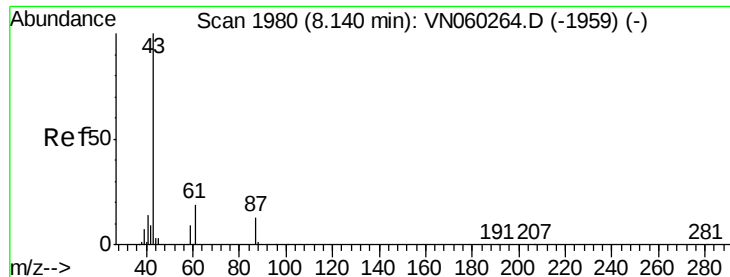


Abundance Ion 116.80 (116.50 to 117.50): VN060510.D (-1766) (-)

Ion 118.80 (118.50 to 119.50): VN060510.D (-1766) (-)

Ion 120.80 (120.50 to 121.50): VN060510.D (-1766) (-)





#43

Isopropyl Acetate

Concen: 11.283 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060510.D

Acq: 13 Mar 2020 18:05

Instrument :

MSVOA_N

ClientSampleId :

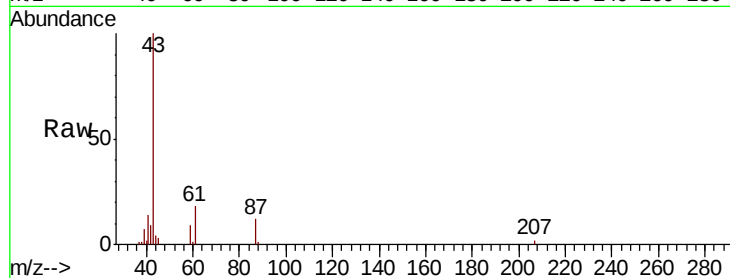
Tot Ion: 43 Resp: 63457

Ion Ratio Lower Upper

43 100

61 19.1 20.9 31.3#

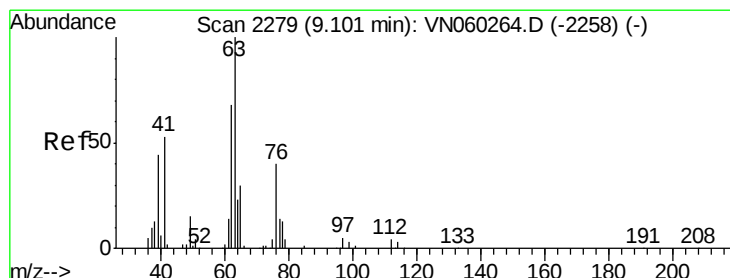
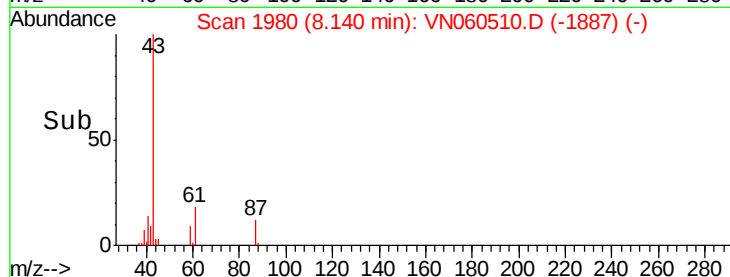
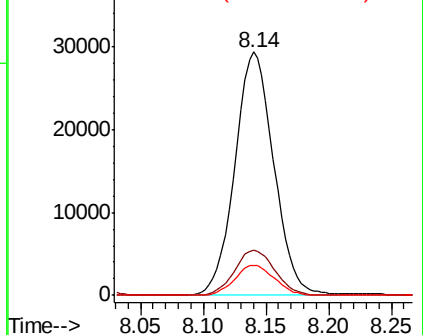
87 12.5 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060510.D (-2186) (-)

Ion 61.00 (60.70 to 61.70): VN060510.D (-2186) (-)

Ion 87.00 (86.70 to 87.70): VN060510.D (-2186) (-)



#45

1,2-Dichloropropane

Concen: 0.479 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060510.D

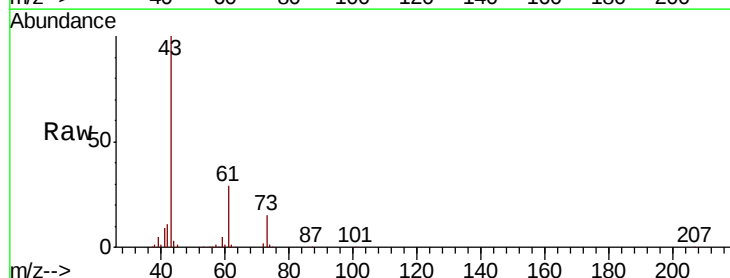
Acq: 13 Mar 2020 18:05

Tgt Ion: 63 Resp: 1236

Ion Ratio Lower Upper

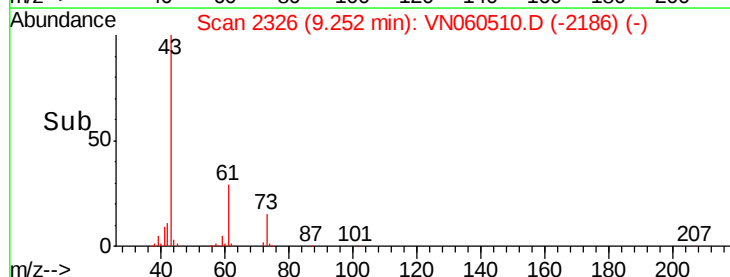
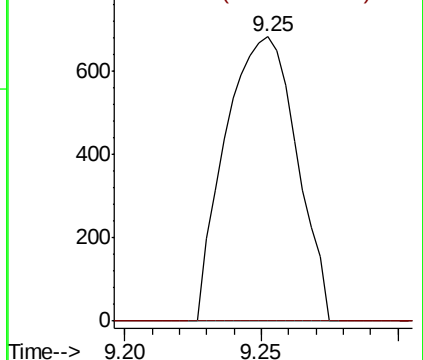
63 100

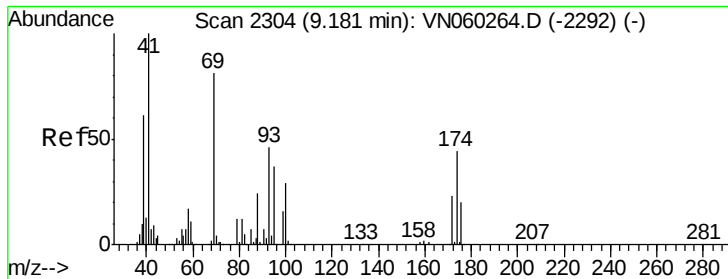
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060510.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060510.D (-2186) (-)

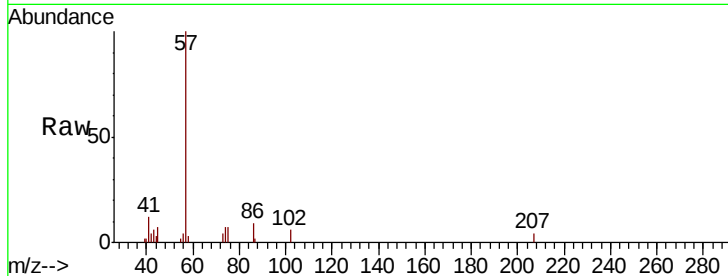




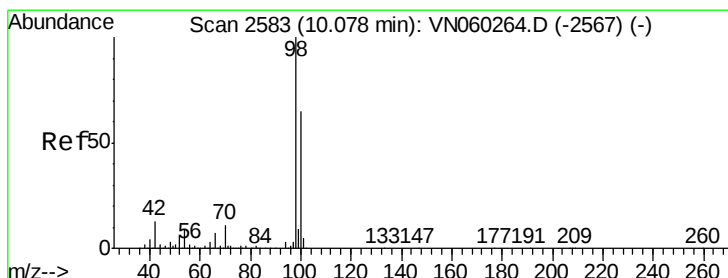
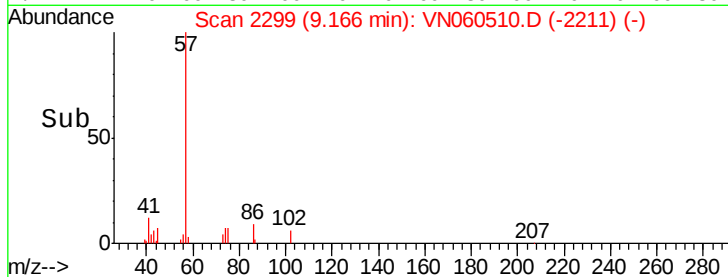
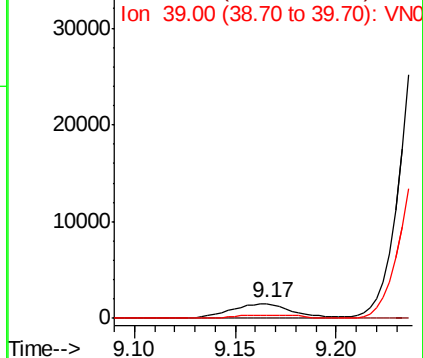
#48
Methvl methacrylate
Concen: 1.249 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN060510.D
Acq: 13 Mar 2020 18:05

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 3204
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#

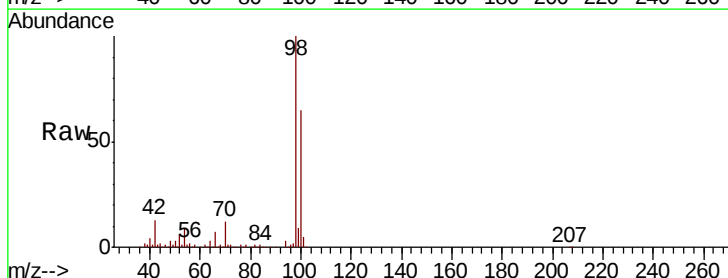


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

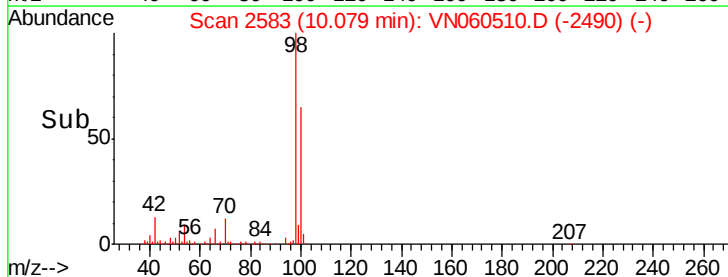
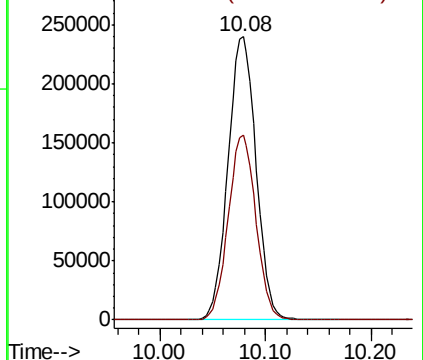


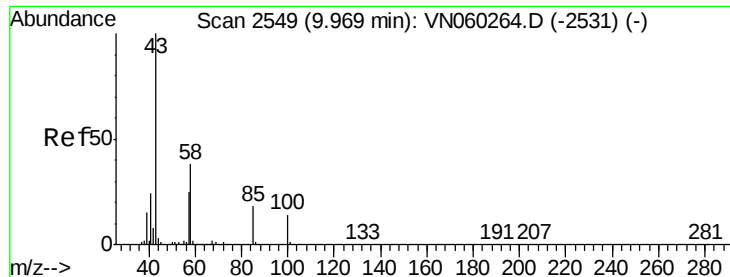
#50
Toluene-d8
Concen: 52.680 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060510.D
Acq: 13 Mar 2020 18:05

Tgt Ion: 98 Resp: 440575
Ion Ratio Lower Upper
98 100
100 64.5 52.2 78.2



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

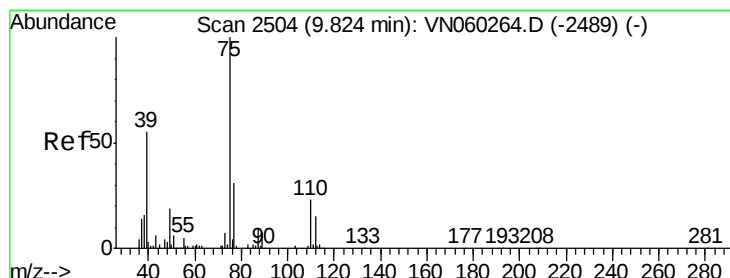
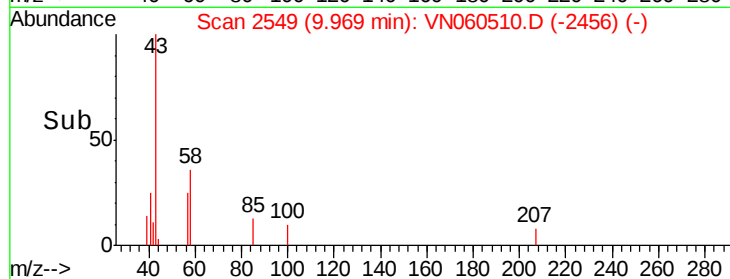
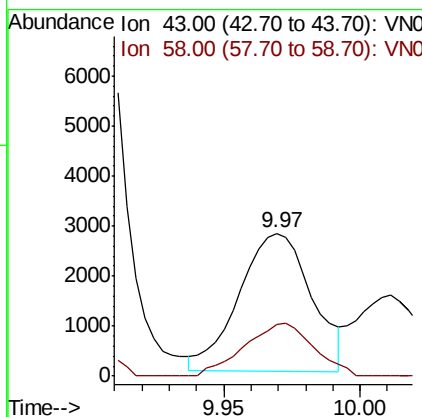
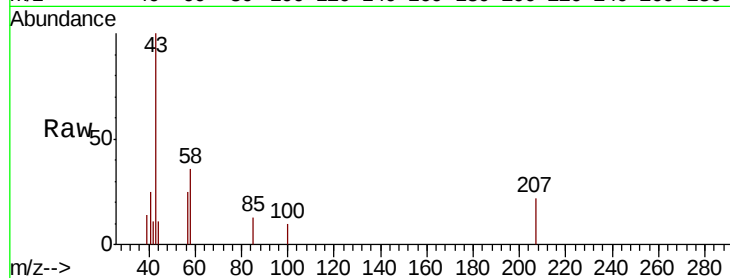




#51
 4-Methyl-2-Pentanone
 Concen: 1.603 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. 0.00 min
 Lab File: VN060510.D
 Acq: 13 Mar 2020 18:05

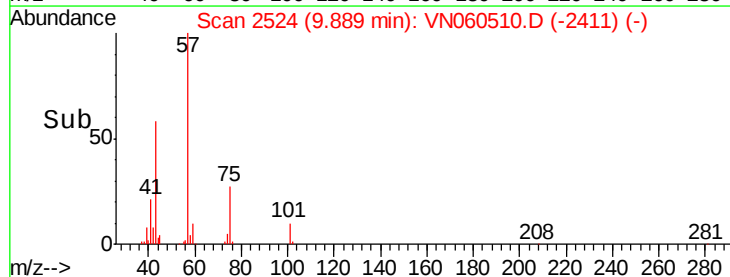
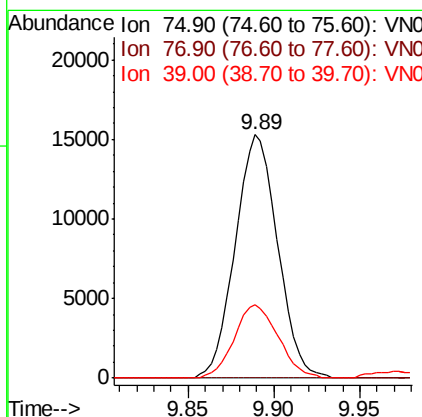
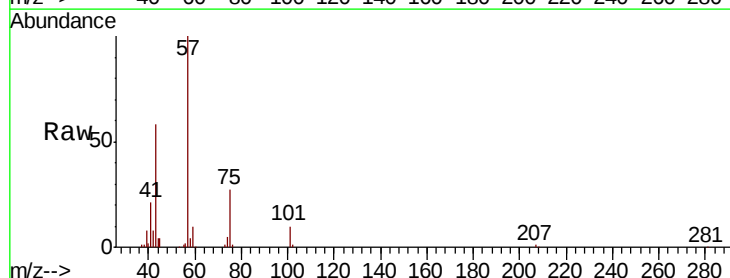
Instrument :
 MSVOA_N
 ClientSampleId :

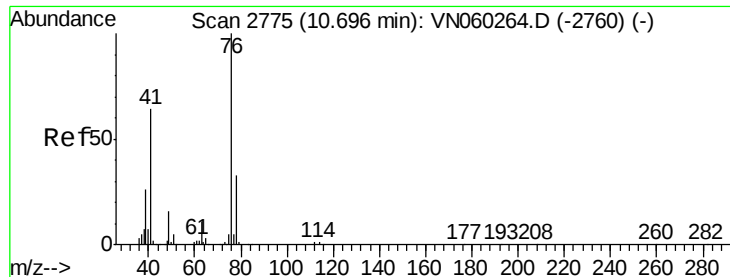
Tot Ion: 43 Resp: 5113
 Ion Ratio Lower Upper
 43 100
 58 36.6 30.9 46.3



#54
 cis-1,3-Dichloropropene
 Concen: 6.040 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060510.D
 Acq: 13 Mar 2020 18:05

Tgt Ion: 75 Resp: 26129
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 30.1 43.8 65.8#





#57

1,3-Dichloropropane

Concen: 1.041 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060510.D

Acq: 13 Mar 2020 18:05

Instrument :

MSVOA_N

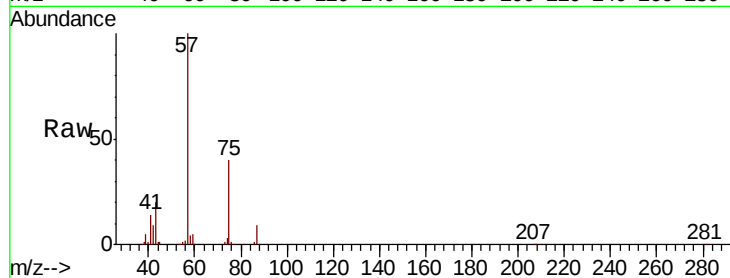
ClientSampleId :

Tot Ion: 76 Resp: 4236

Ion Ratio Lower Upper

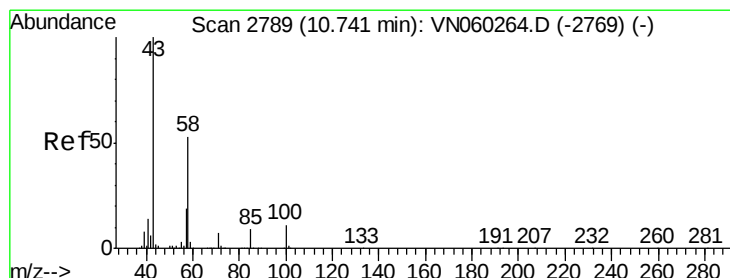
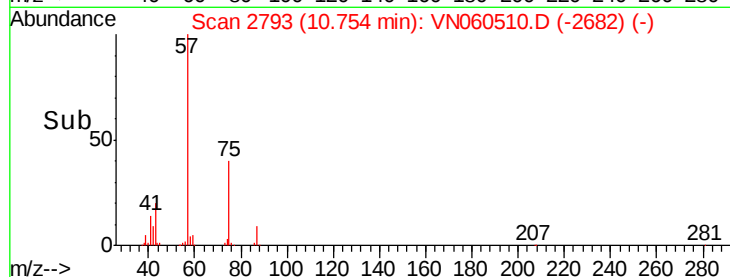
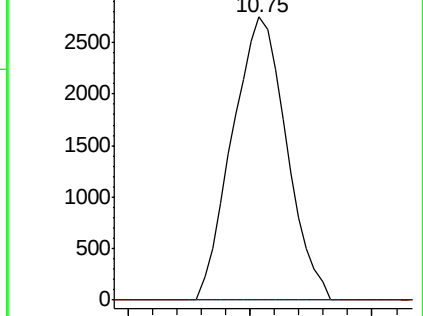
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 26.666 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060510.D

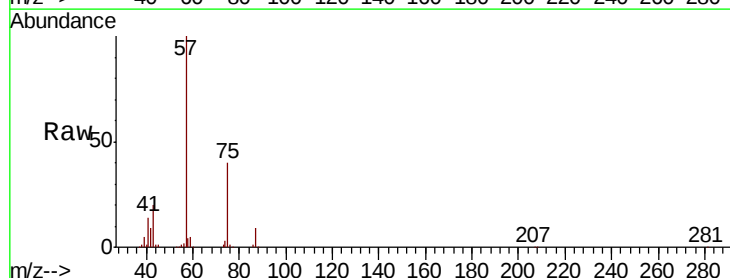
Acq: 13 Mar 2020 18:05

Tgt Ion: 43 Resp: 62434

Ion Ratio Lower Upper

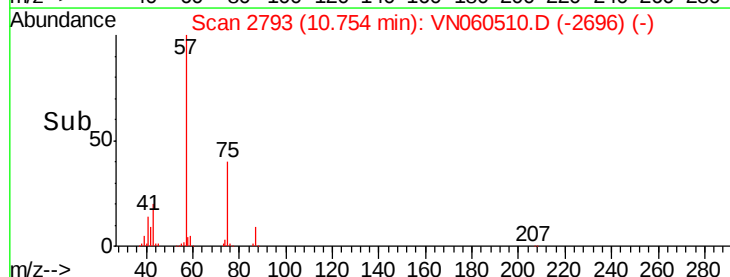
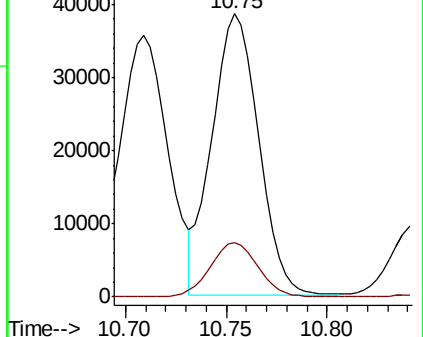
43 100

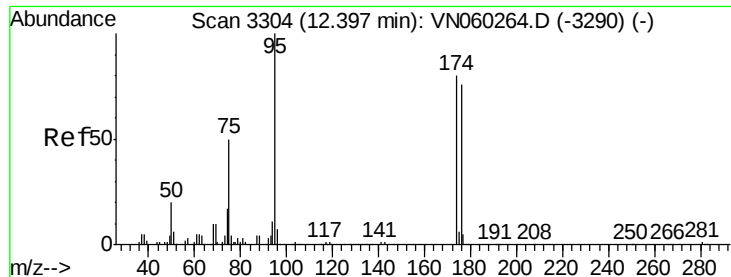
58 19.6 26.5 79.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 52.557 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060510.D

Acq: 13 Mar 2020 18:05

Instrument :

MSVOA_N

ClientSampleId :

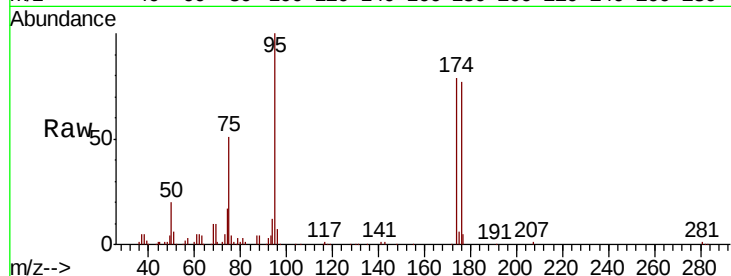
Tot Ion: 95 Resp: 166622

Ion Ratio Lower Upper

95 100

174 78.7 0.0 159.2

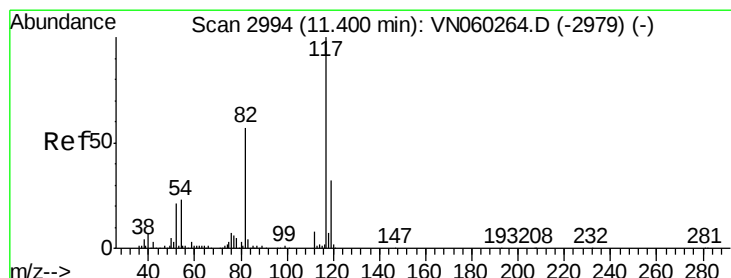
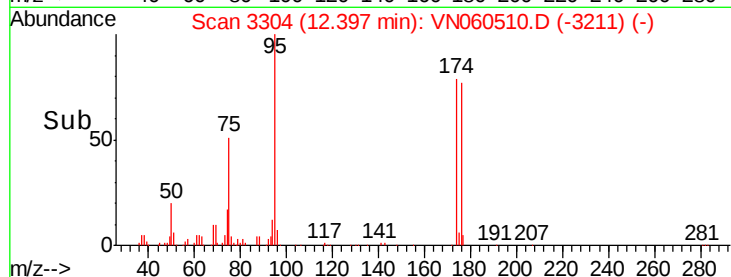
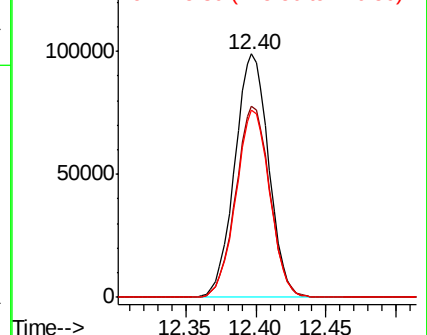
176 76.7 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060510.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060510.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060510.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060510.D

Acq: 13 Mar 2020 18:05

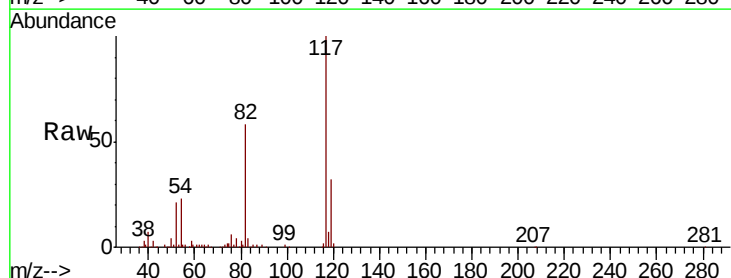
Tgt Ion: 117 Resp: 340687

Ion Ratio Lower Upper

117 100

82 58.3 45.8 68.6

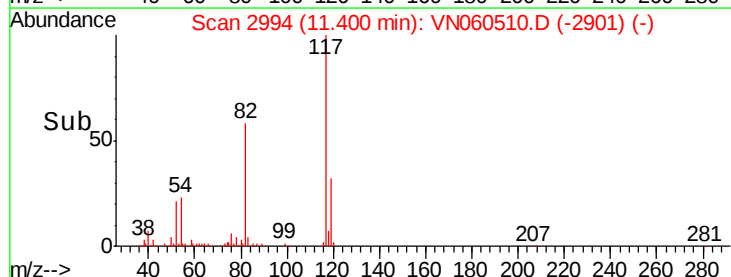
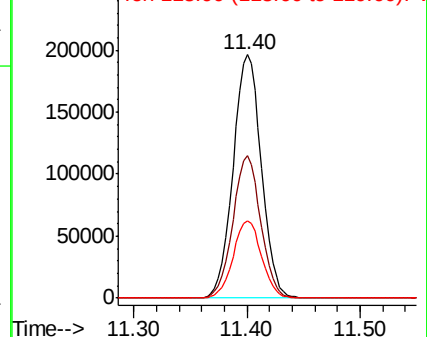
119 31.7 25.8 38.8

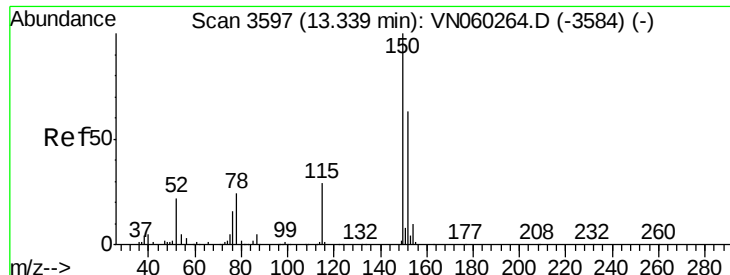


Abundance Ion 116.90 (116.60 to 117.60): VN060510.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060510.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060510.D (-2979) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060510.D

Acq: 13 Mar 2020 18:05

Instrument :

MSVOA_N

ClientSampleId :

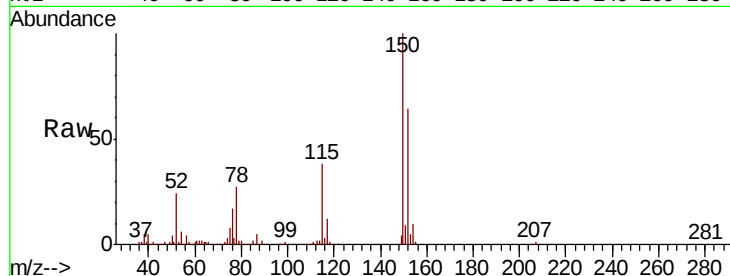
Tot Ion:152 Resp: 158938

Ion Ratio Lower Upper

152 100

115 59.9 30.0 90.0

150 157.5 0.0 349.6

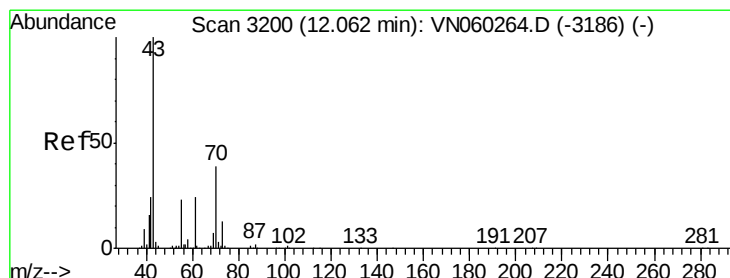
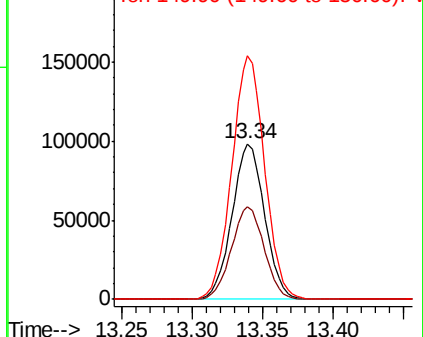
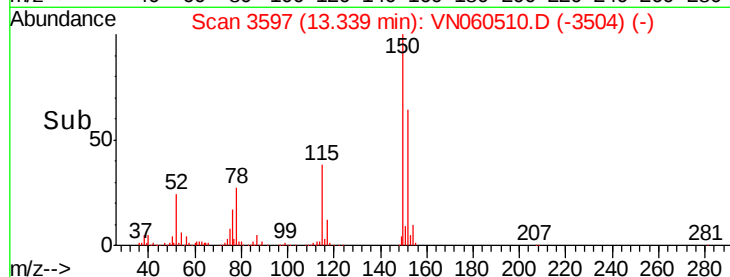


Abundance

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: 0.590 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060510.D

Acq: 13 Mar 2020 18:05

Tgt Ion: 43 Resp: 3038

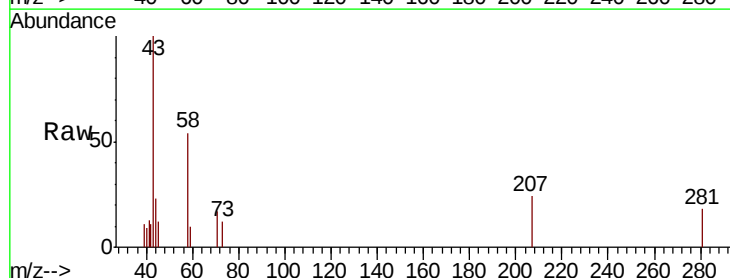
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#



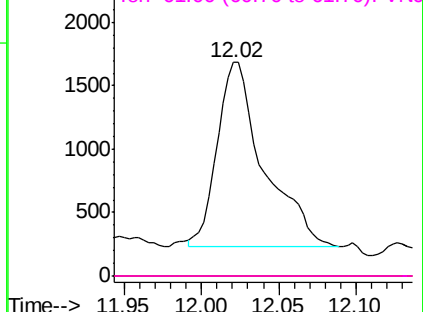
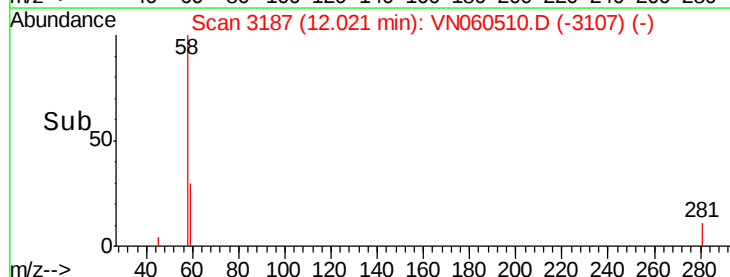
Abundance

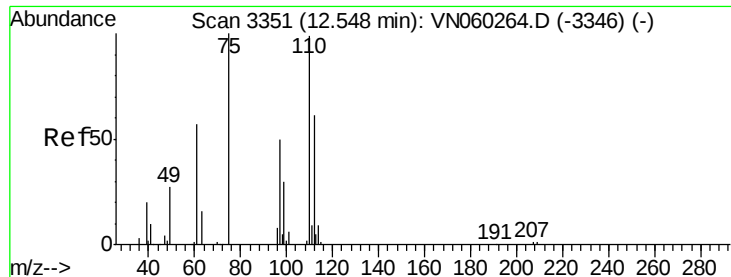
Ion 43.00 (42.70 to 43.70): V

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: 24.266 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060510.D

Acq: 13 Mar 2020 18:05

Instrument :

MSVOA_N

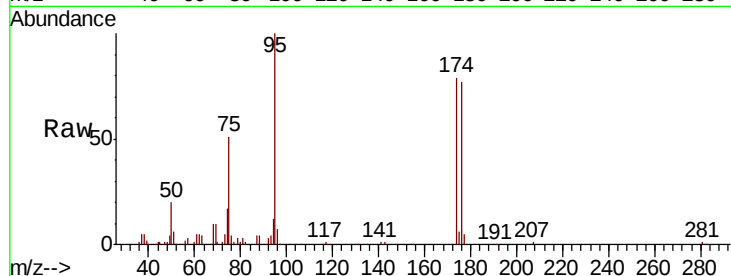
ClientSampled :

Tot Ion: 75 Resp: 84617

Ion Ratio Lower Upper

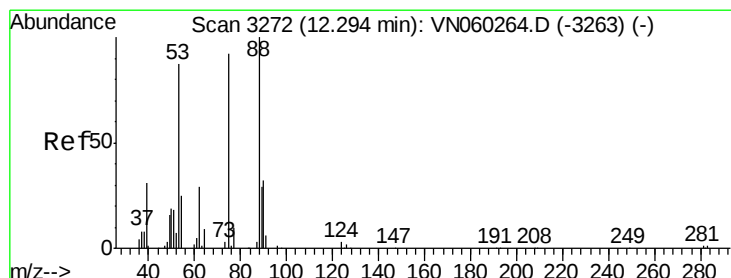
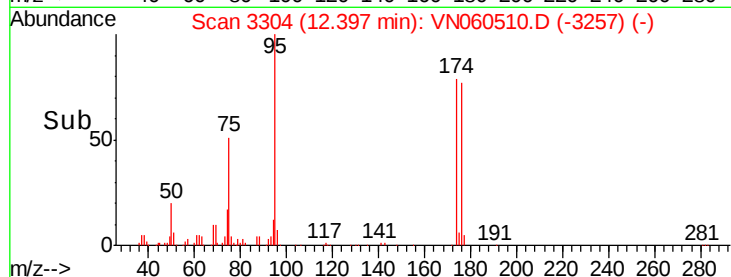
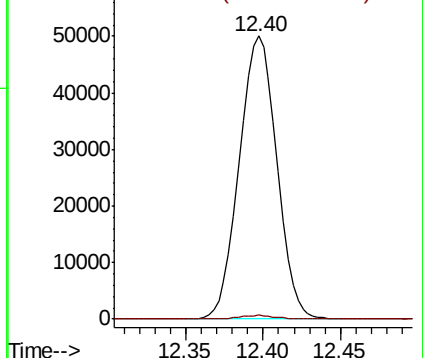
75 100

77 1.2 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: 66.985 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060510.D

Acq: 13 Mar 2020 18:05

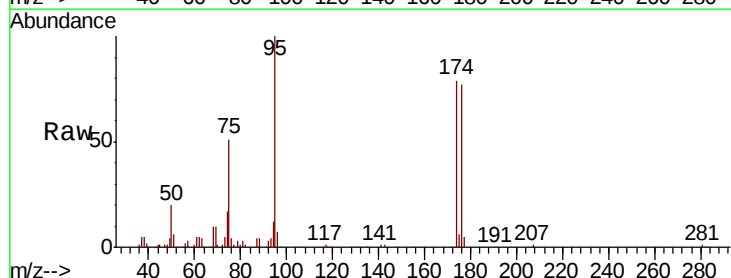
Tgt Ion: 75 Resp: 84617

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

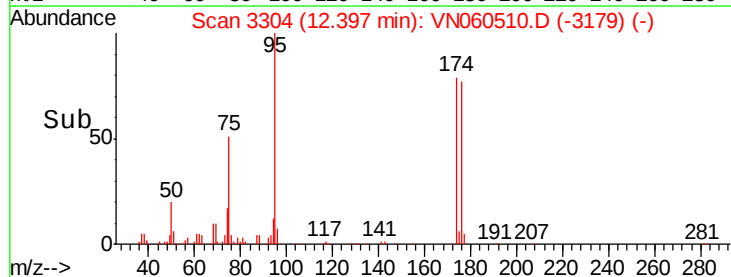
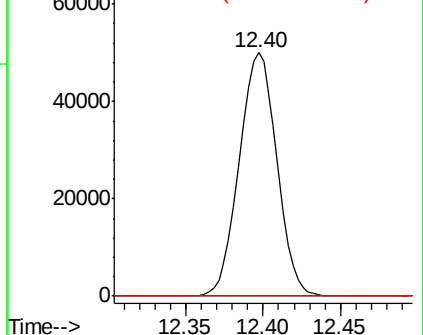
89 0.0 57.1 85.7#

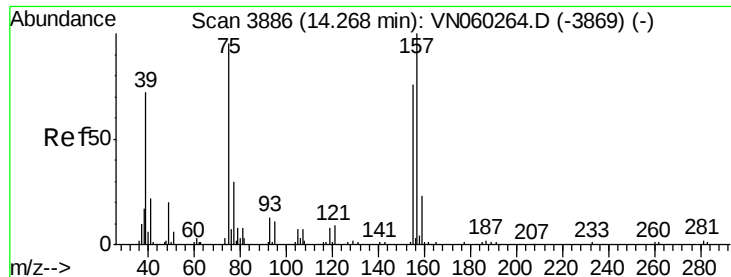


Abundance Ion 74.90 (74.60 to 75.60): VN0

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: 0.211 ug/l

RT: 14.48 min Scan# 3952

Delta R.T. 0.21 min

Lab File: VN060510.D

Acq: 13 Mar 2020 18:05

Instrument :

MSVOA_N

ClientSampleId :

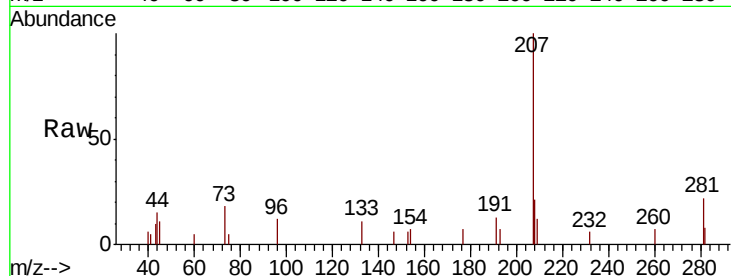
Tot Ion: 75 Resp: 153

Ion Ratio Lower Upper

75 100

155 0.0 40.4 121.2#

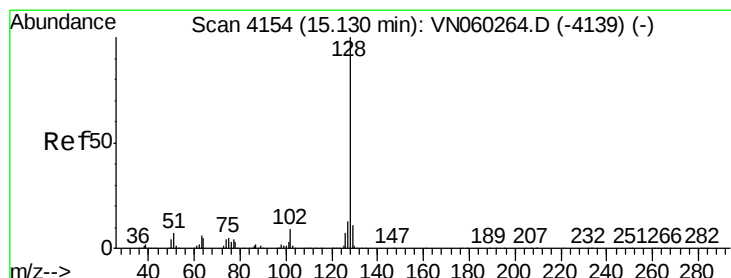
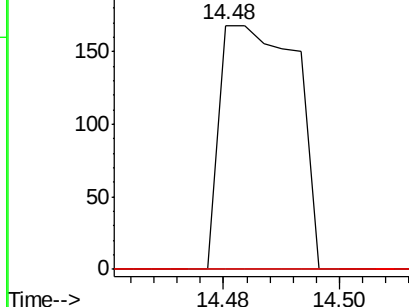
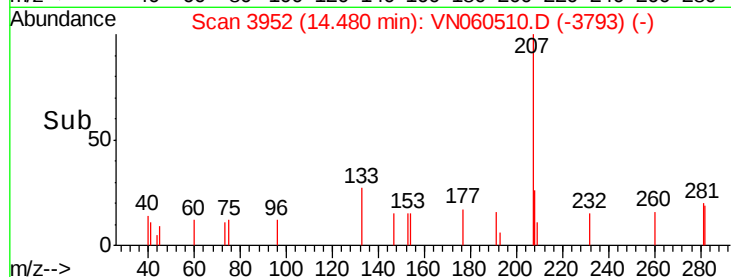
157 0.0 52.5 157.5#



Abundance Ion 74.90 (74.60 to 75.60): VN060510.D (-3793) (-)

Ion 154.80 (154.50 to 155.50): VN060510.D (-3793) (-)

Ion 156.80 (156.50 to 157.50): VN060510.D (-3793) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060510.D

Acq: 13 Mar 2020 18:05

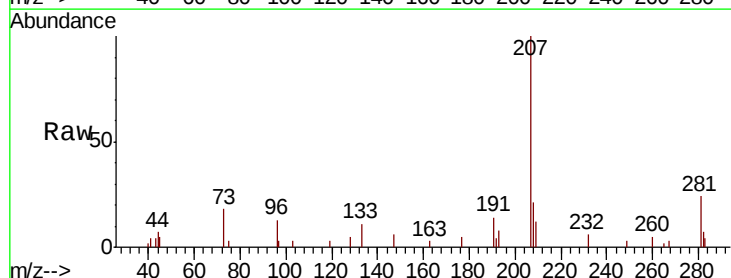
Tgt Ion: 128 Resp: 422

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN060510.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN060510.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN060510.D (-4060) (-)

