

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030419\
 Data File : VN054080.D
 Acq On : 4 Mar 2019 21:48
 Operator : JC/SP
 Sample : K1715-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 04 23:59:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 28 04:05:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	580898	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1101170	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1081977	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	396077	50.00	ug/l	0.00

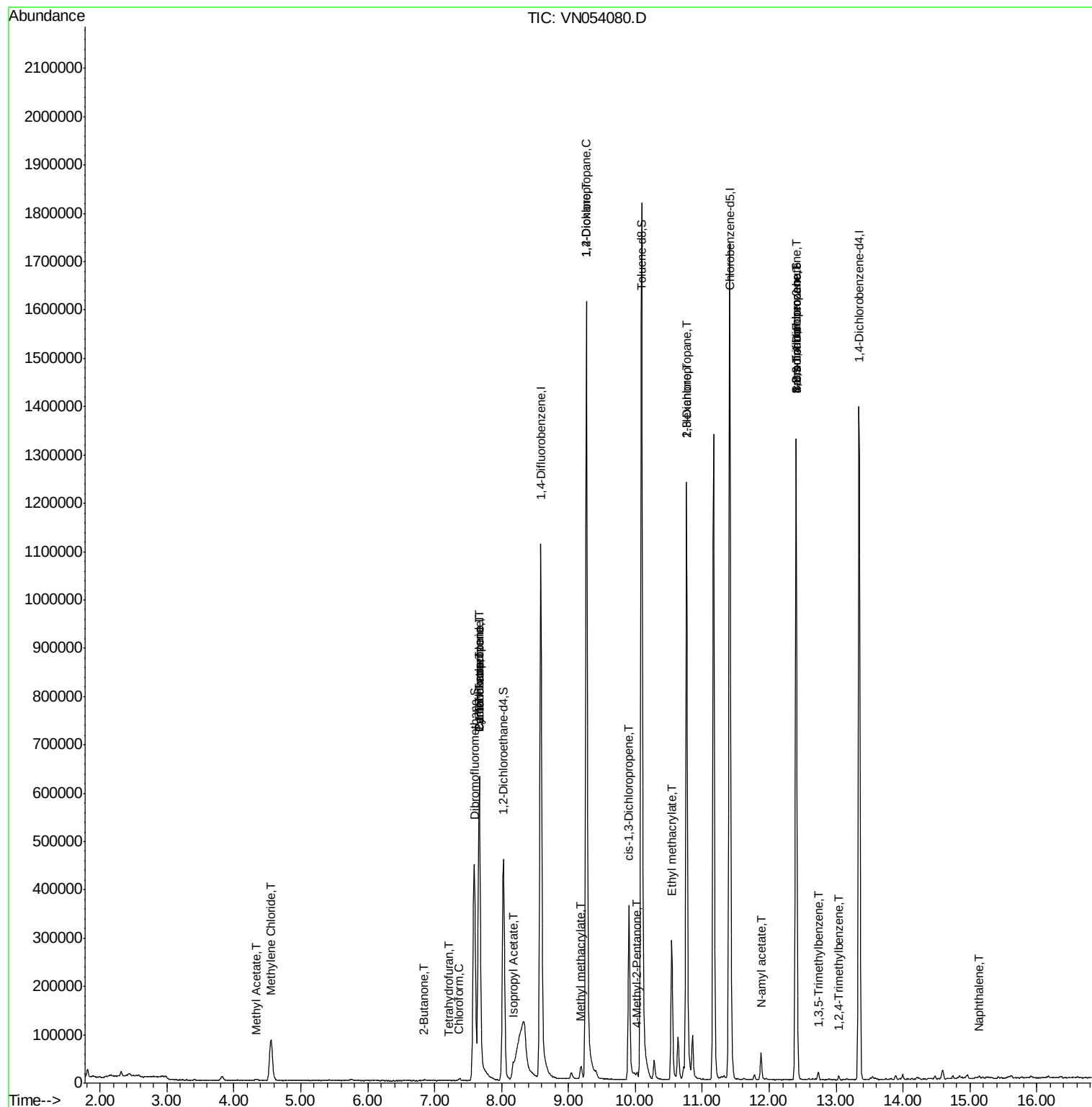
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	390910	57.41	ug/l	0.00
Spiked Amount			Recovery	=	114.82%	
35) Dibromofluoromethane	7.59	113	355437	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
50) Toluene-d8	10.09	98	1406950	53.08	ug/l	0.00
Spiked Amount			Recovery	=	106.16%	
62) 4-Bromofluorobenzene	12.40	95	468578	53.06	ug/l	0.00
Spiked Amount			Recovery	=	106.12%	

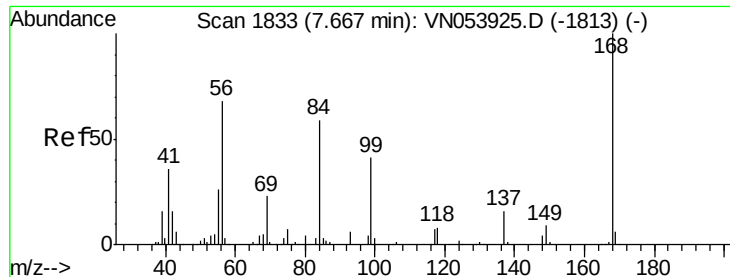
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	14861	Below Cal		91
18) Methyl Acetate	4.34	43	5932	1.246	ug/l #	77
20) Methylene Chloride	4.55	84	65510	9.720	ug/l	88
25) 2-Butanone	6.84	43	3064	1.146	ug/l #	47
29) Tetrahydrofuran	7.23	42	922	0.518	ug/l #	40
30) Chloroform	7.37	83	4856	0.421	ug/l #	79
31) Cyclohexane	7.67	56	10364	0.546	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	40857	3.990	ug/l #	47
38) Carbon Tetrachloride	7.67	117	50846	4.774	ug/l #	16
43) Isopropyl Acetate	8.18	43	33067	2.678	ug/l #	87
45) 1,2-Dichloropropane	9.27	63	2032	0.239	ug/l #	44
48) Methyl methacrylate	9.18	41	9892	1.742	ug/l #	12
49) 1,4-Dioxane	9.27	88	149	1.937	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	10712	1.688	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	68392	5.742	ug/l #	69
56) Ethyl methacrylate	10.54	69	1602	2.125	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	13060	1.117	ug/l #	43
59) 2-Hexanone	10.76	43	193643	46.931	ug/l #	48
71) Bromoform	12.41	173	3592	0.627	ug/l #	1
74) N-amyl acetate	11.88	43	18645	2.307	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	230444	36.269	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8013	0.317	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	230444	114.632	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	5385	0.214	ug/l	90
95) Naphthalene	15.13	128	3354	3.412	ug/l #	94

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054080.D

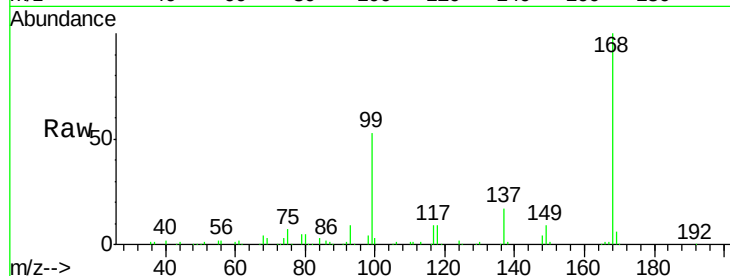
Acq: 4 Mar 2019 21:48

Tot Ion:168 Resp: 580898

Ion Ratio Lower Upper

168 100

99 53.0 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): VN054080.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN054080.D (-1740) (-)

7.67

250000

200000

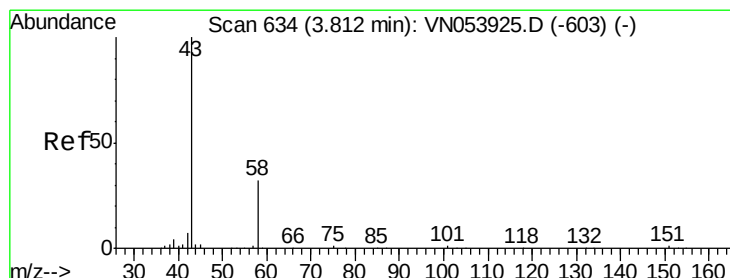
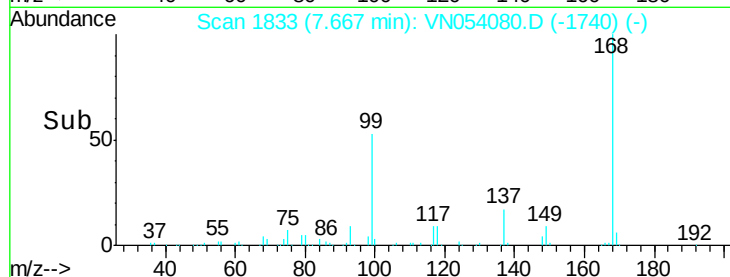
150000

100000

50000

0

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN054080.D

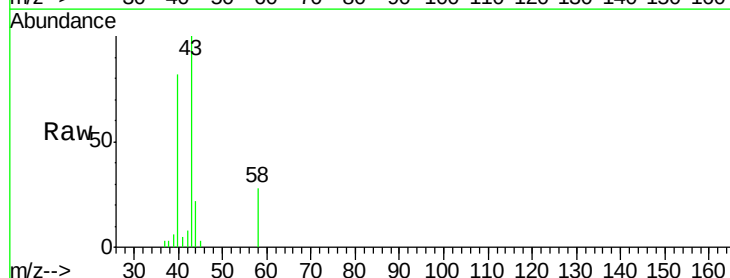
Acq: 4 Mar 2019 21:48

Tgt Ion: 43 Resp: 14861

Ion Ratio Lower Upper

43 100

58 29.5 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VN054080.D (-540) (-)

Ion 58.00 (57.70 to 58.70): VN054080.D (-540) (-)

3.82

6000

5000

4000

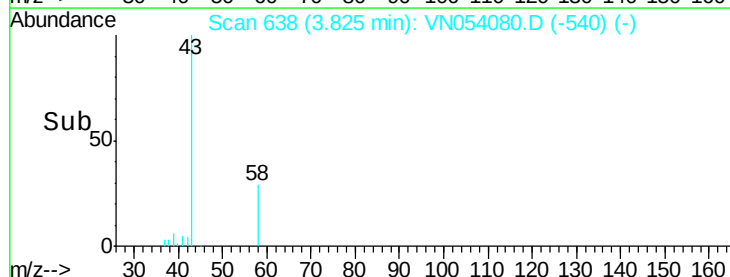
3000

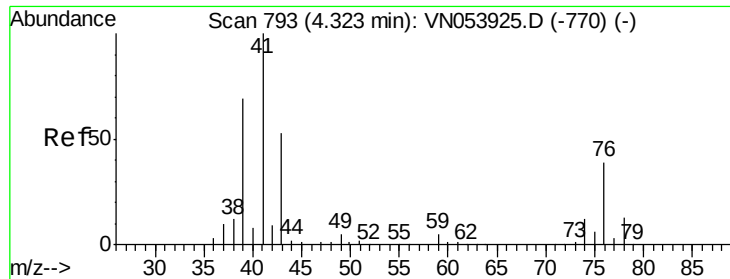
2000

1000

0

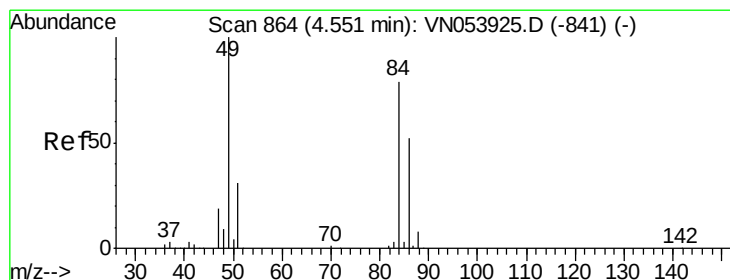
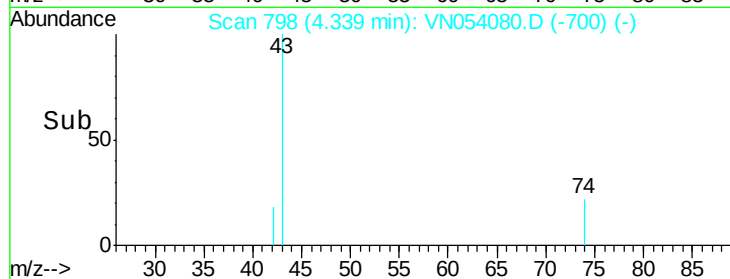
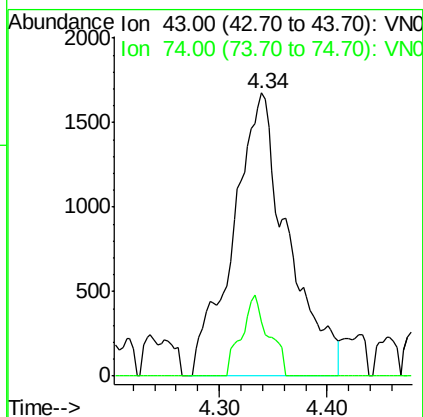
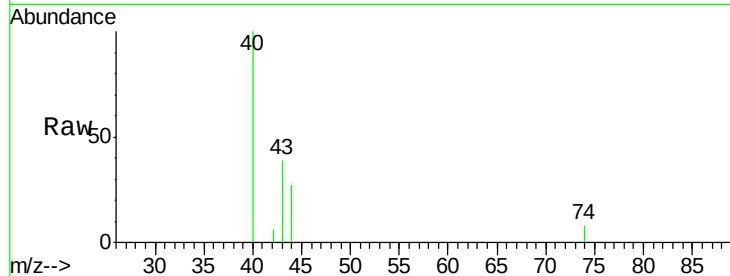
Time-->





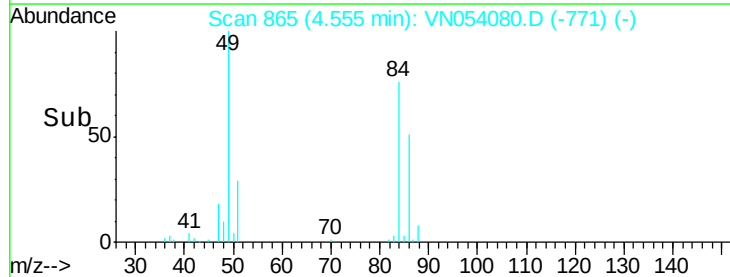
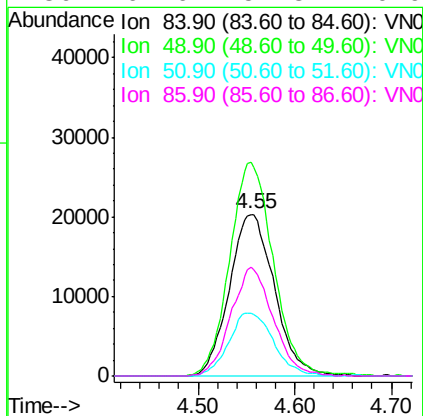
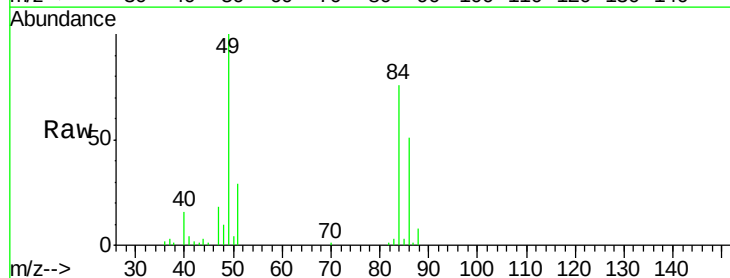
#18
Methyl Acetate
Concen: 1.246 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.02 min
Lab File: VN054080.D
Acq: 4 Mar 2019 21:48

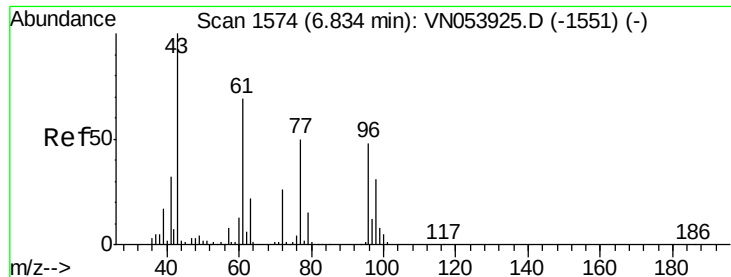
Tot Ion: 43 Resp: 5932
Ion Ratio Lower Upper
43 100
74 14.1 20.5 30.7#



#20
Methylene Chloride
Concen: 9.720 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN054080.D
Acq: 4 Mar 2019 21:48

Tgt Ion: 84 Resp: 65510
Ion Ratio Lower Upper
84 100
49 131.4 89.7 134.5
51 38.8 27.8 41.8
86 67.6 51.3 76.9





#25

2-Butanone

Concen: 1.146 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN054080.D

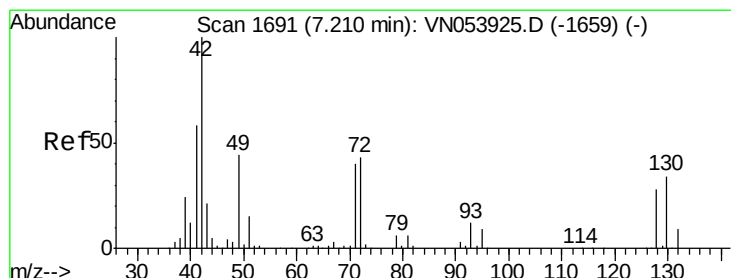
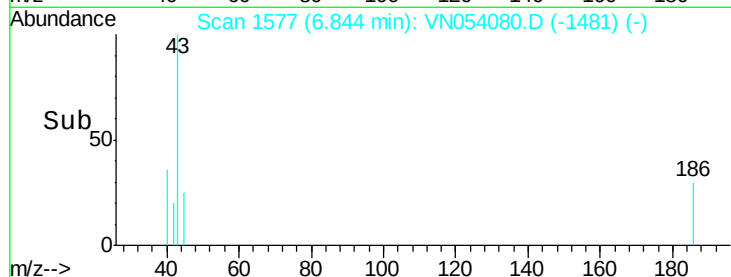
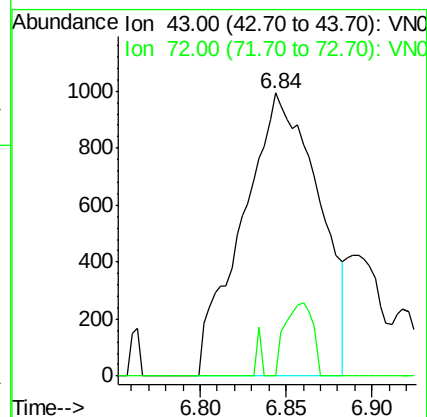
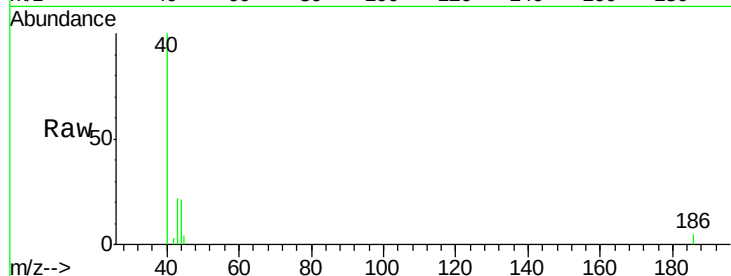
Acq: 4 Mar 2019 21:48

Tot Ion: 43 Resp: 3064

Ion Ratio Lower Upper

43 100

72 0.0 22.1 33.1#



#29

Tetrahydrofuran

Concen: 0.518 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.02 min

Lab File: VN054080.D

Acq: 4 Mar 2019 21:48

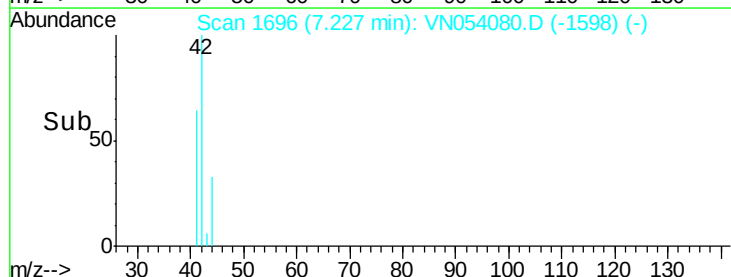
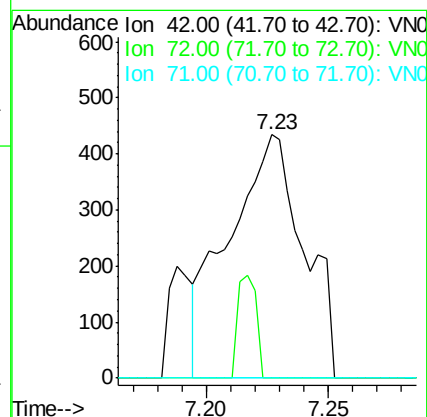
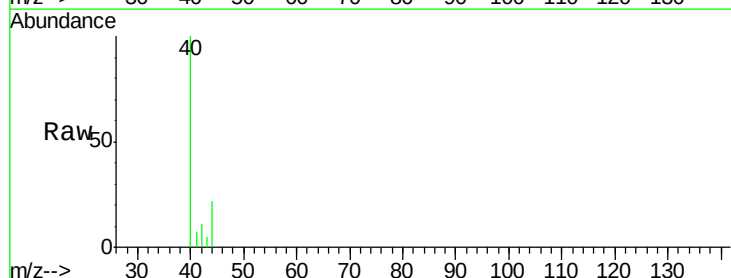
Tgt Ion: 42 Resp: 922

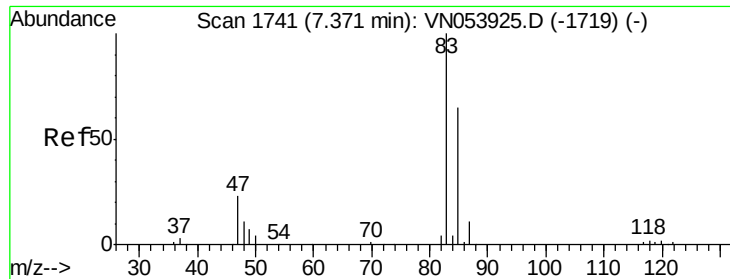
Ion Ratio Lower Upper

42 100

72 10.7 36.9 55.3#

71 0.0 34.6 52.0#





#30

Chloroform

Concen: 0.421 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN054080.D

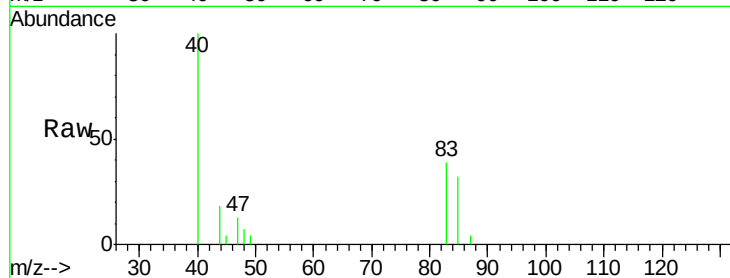
Acq: 4 Mar 2019 21:48

Tot Ion: 83 Resp: 4856

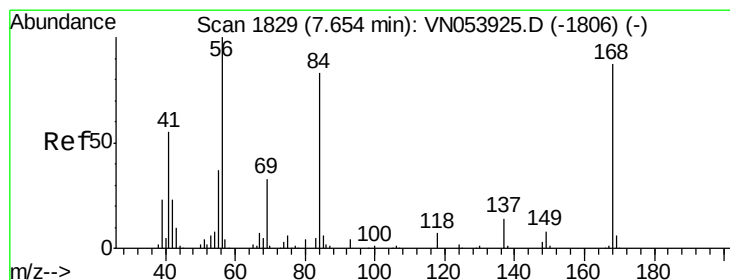
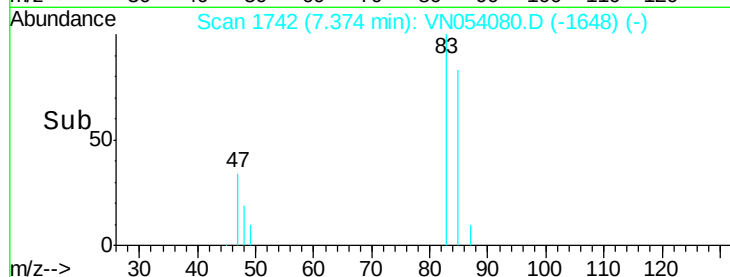
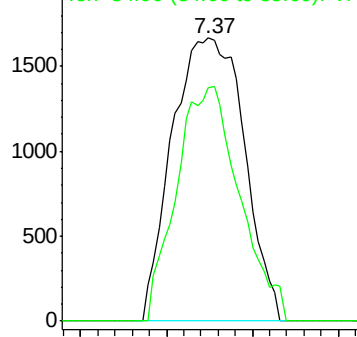
Ion Ratio Lower Upper

83 100

85 82.6 52.6 78.8#



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO



#31

Cyclohexane

Concen: 0.546 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN054080.D

Acq: 4 Mar 2019 21:48

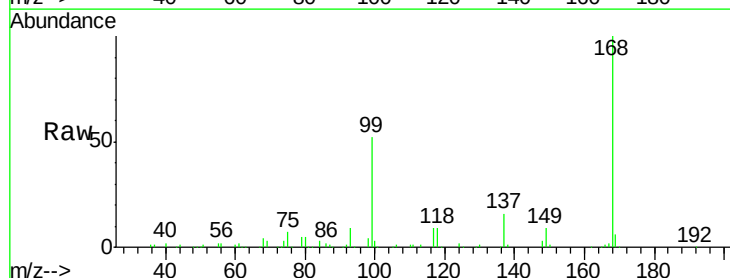
Tgt Ion: 56 Resp: 10364

Ion Ratio Lower Upper

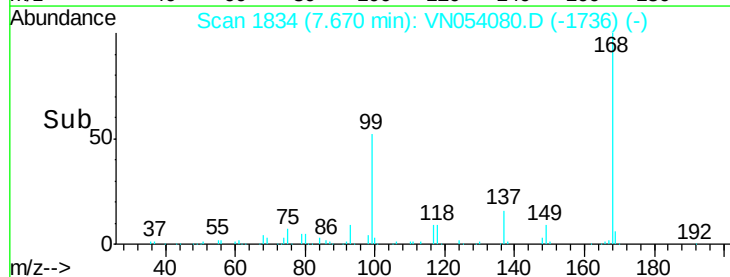
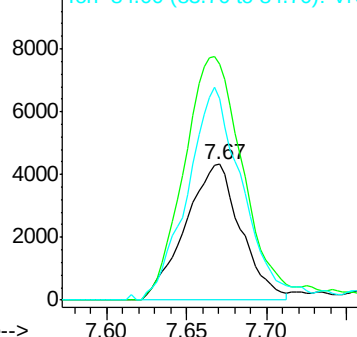
56 100

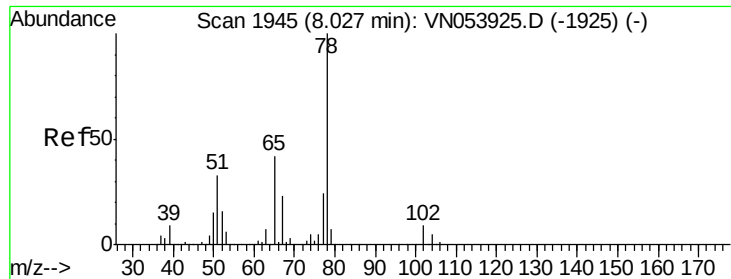
69 173.9 26.0 39.0#

84 147.7 69.1 103.7#



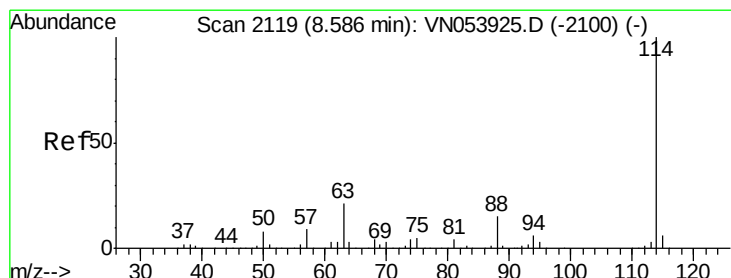
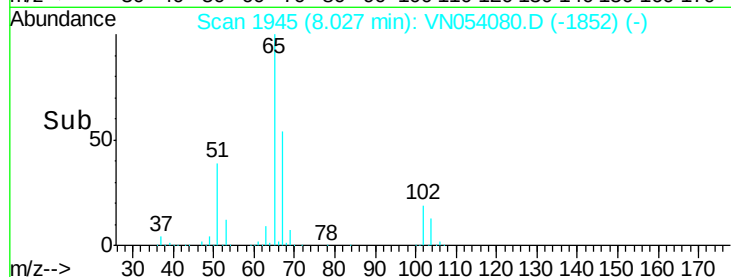
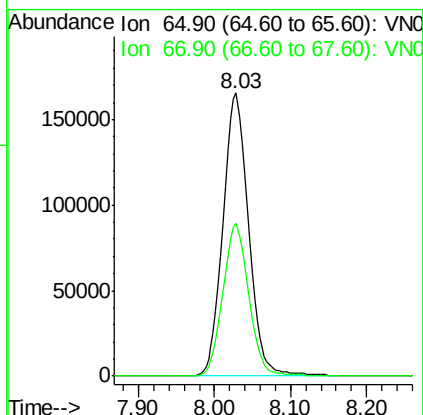
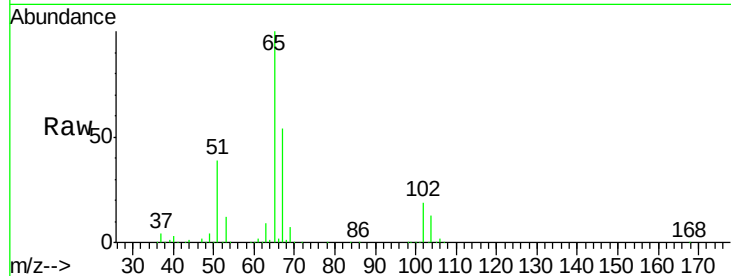
Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO





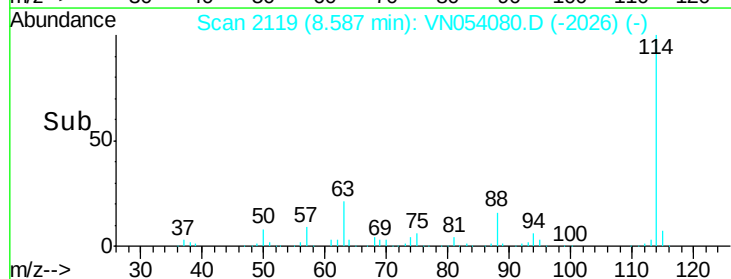
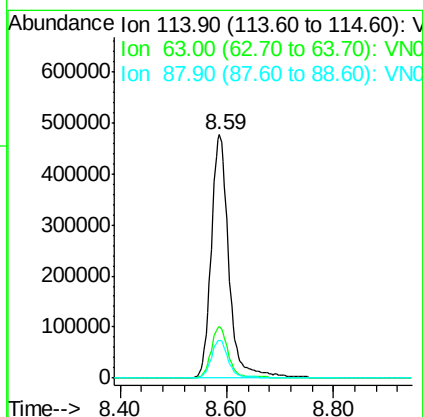
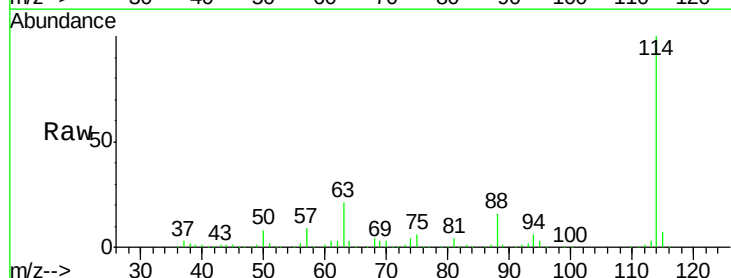
#33
 1,2-Dichloroethane-d4
 Concen: 57.407 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054080.D
 Acq: 4 Mar 2019 21:48

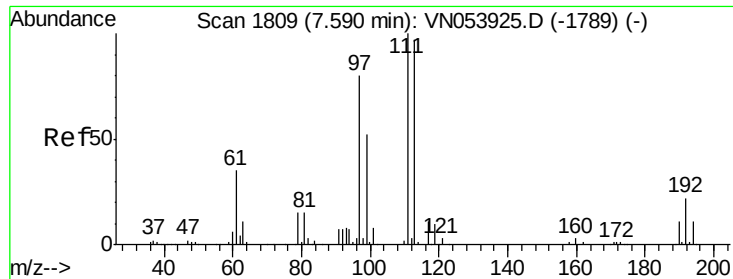
Tot Ion: 65 Resp: 390910
 Ion Ratio Lower Upper
 65 100
 67 54.5 0.0 111.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054080.D
 Acq: 4 Mar 2019 21:48

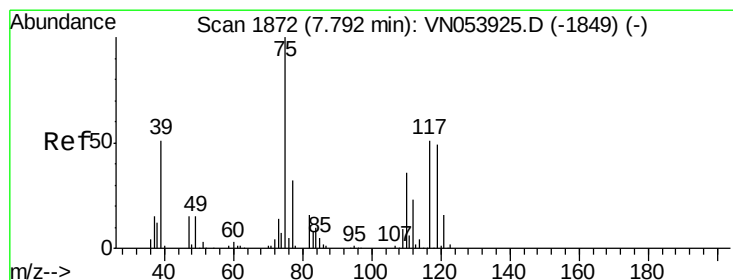
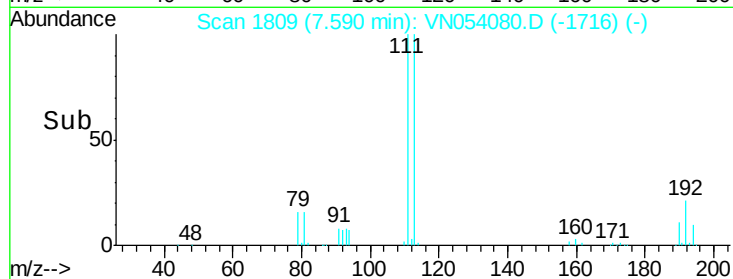
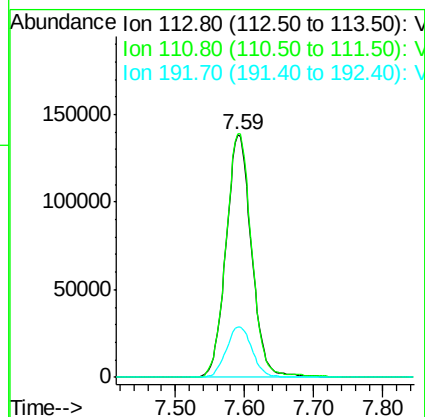
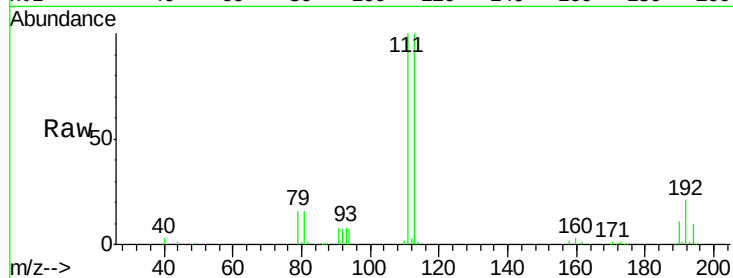
Tgt Ion: 114 Resp: 1101170
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 37.4
 88 15.7 0.0 30.4





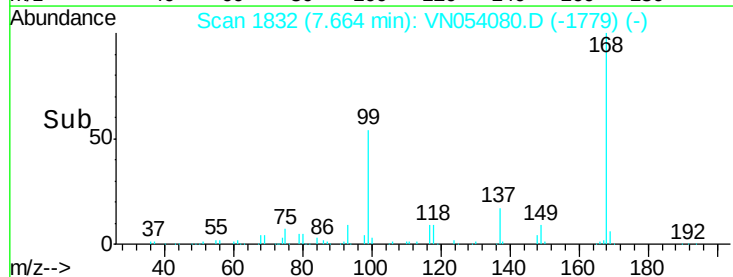
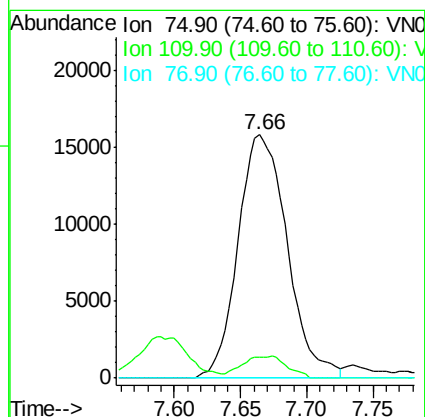
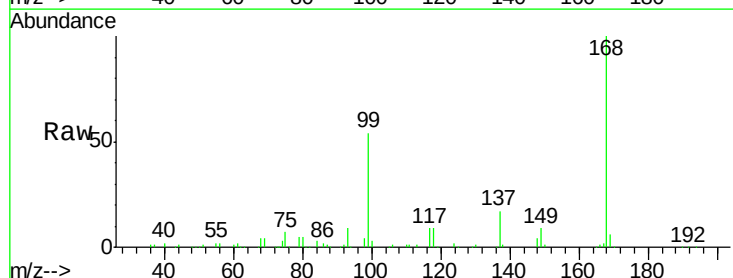
#35
 Dibromofluoromethane
 Concen: 49.915 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054080.D
 Acq: 4 Mar 2019 21:48

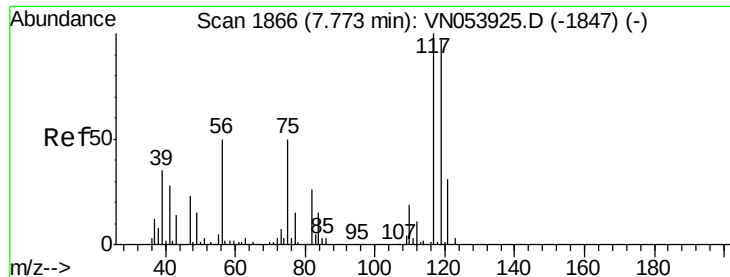
Tot Ion:113 Resp: 355437
 Ion Ratio Lower Upper
 113 100
 111 100.3 81.1 121.7
 192 21.3 18.8 28.2



#36
 1,1-Dichloropropene
 Concen: 3.990 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054080.D
 Acq: 4 Mar 2019 21:48

Tgt Ion: 75 Resp: 40857
 Ion Ratio Lower Upper
 75 100
 110 8.3 19.0 57.0#
 77 0.0 25.4 38.0#





#38

Carbon Tetrachloride

Concen: 4.774 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054080.D

Acq: 4 Mar 2019 21:48

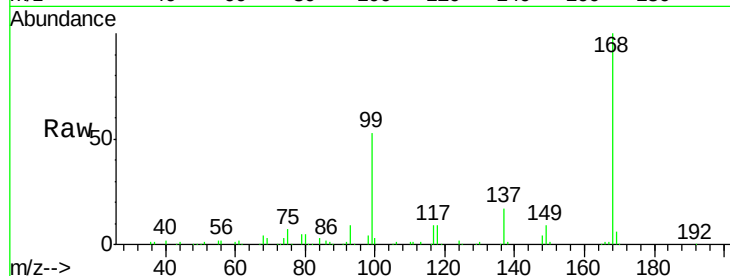
Tot Ion:117 Resp: 50846

Ion Ratio Lower Upper

117 100

119 4.7 76.2 114.2#

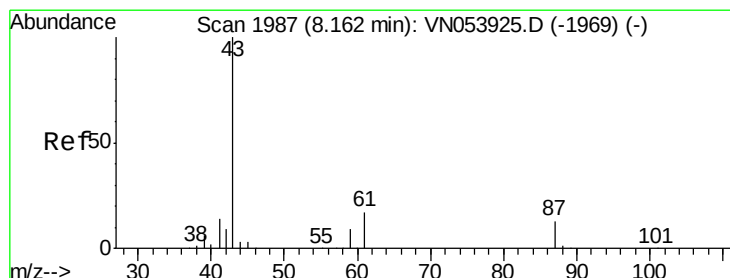
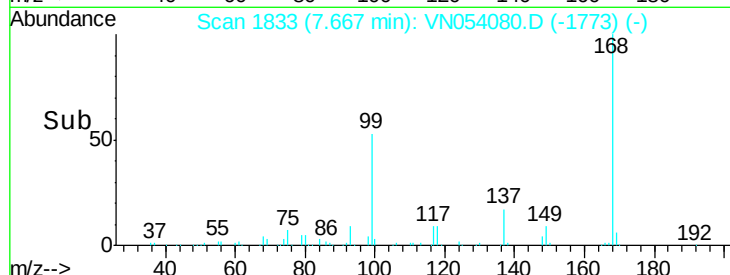
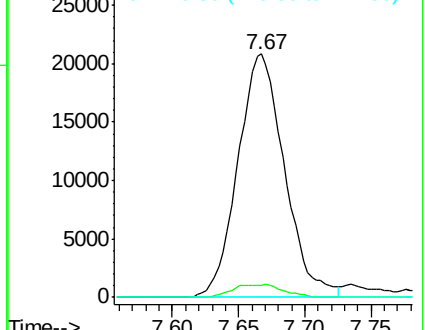
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.678 ug/l

RT: 8.18 min Scan# 1991

Delta R.T. 0.01 min

Lab File: VN054080.D

Acq: 4 Mar 2019 21:48

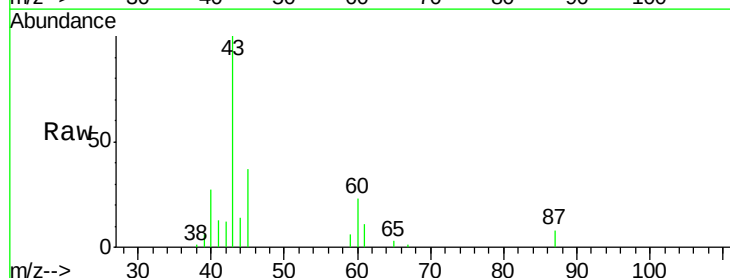
Tgt Ion: 43 Resp: 33067

Ion Ratio Lower Upper

43 100

61 14.7 17.4 26.0#

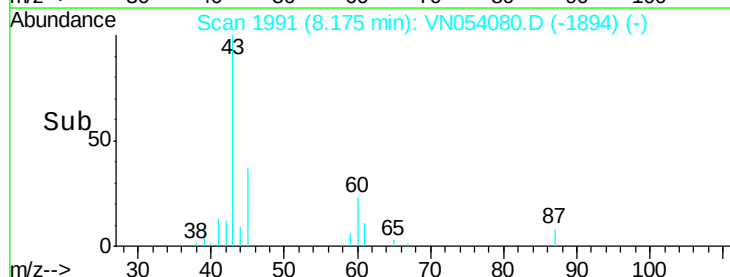
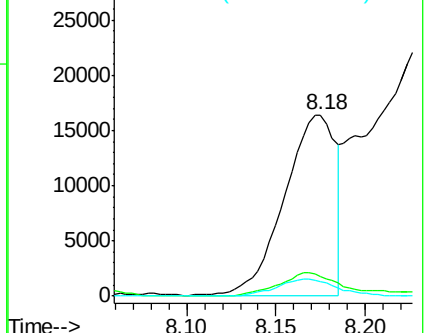
87 10.6 11.5 17.3#

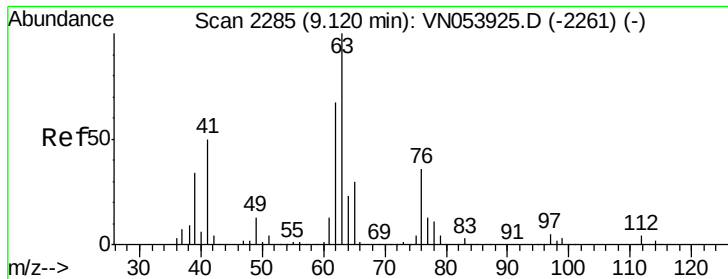


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.239 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN054080.D

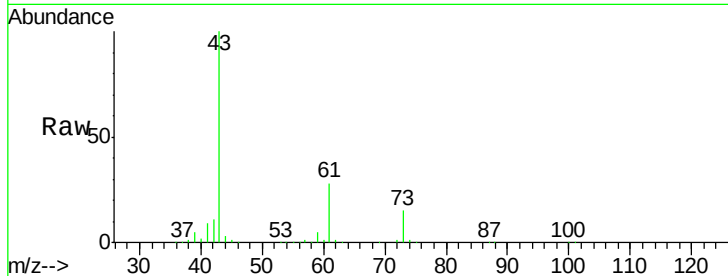
Acq: 4 Mar 2019 21:48

Tot Ion: 63 Resp: 2032

Ion Ratio Lower Upper

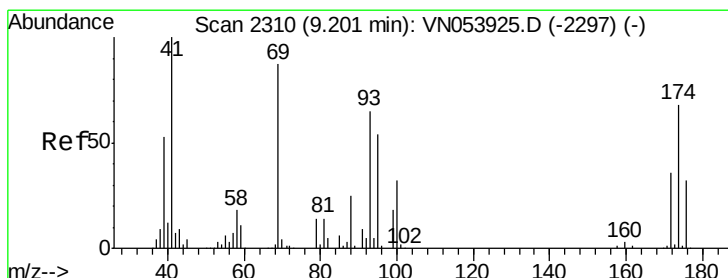
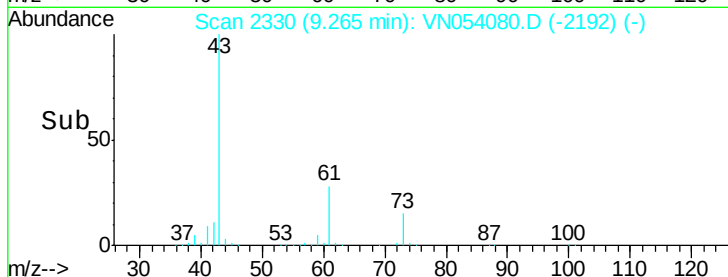
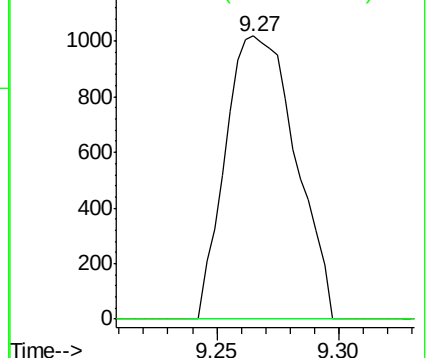
63 100

65 0.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0



#48

Methyl methacrylate

Concen: 1.742 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN054080.D

Acq: 4 Mar 2019 21:48

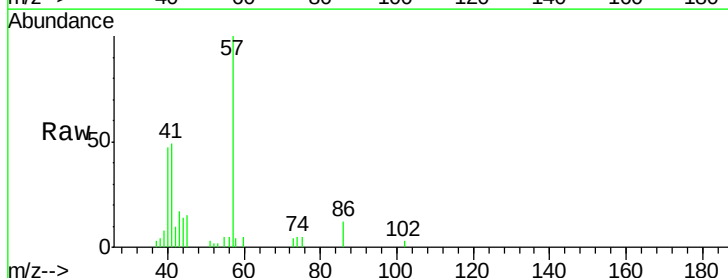
Tgt Ion: 41 Resp: 9892

Ion Ratio Lower Upper

41 100

69 0.0 74.8 112.2#

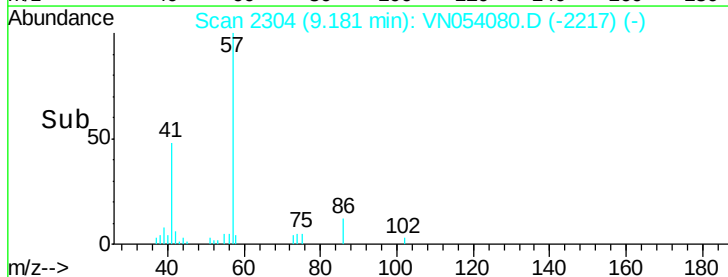
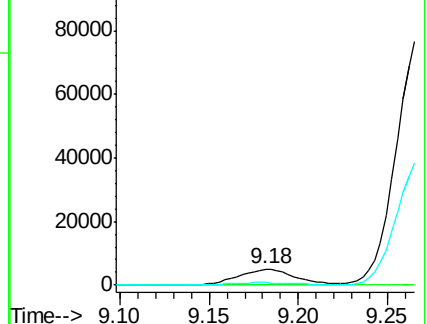
39 0.0 39.0 58.6#

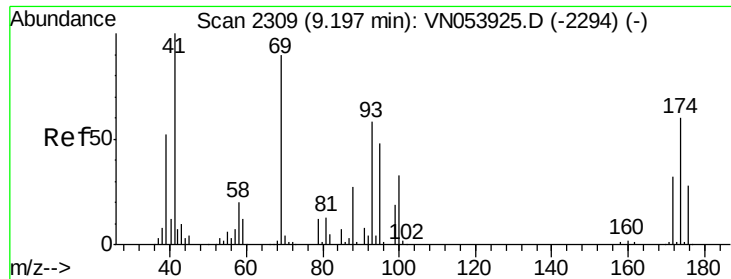


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 1.937 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.07 min

Lab File: VN054080.D

Acq: 4 Mar 2019 21:48

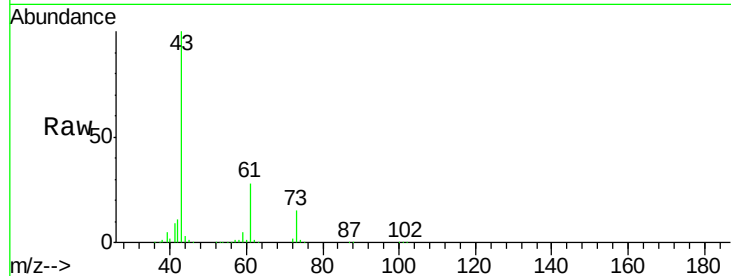
Tot Ion: 88 Resp: 149

Ion Ratio Lower Upper

88 100

43 1166698.0 21.2 31.8#

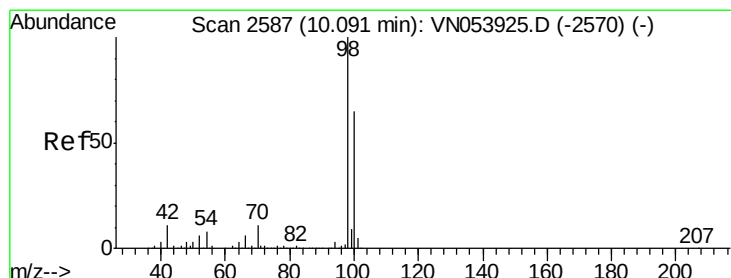
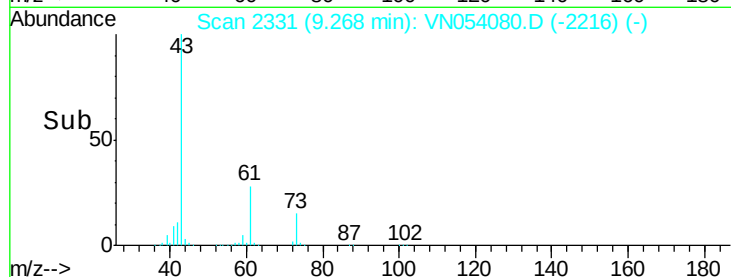
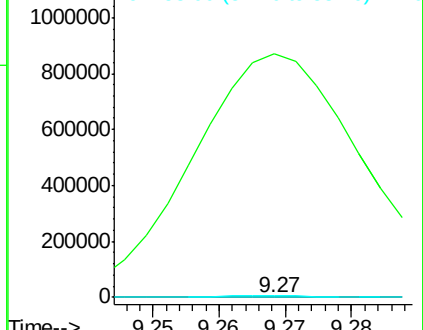
58 5946.3 54.2 81.2#



Abundance Ion 88.00 (87.70 to 88.70): VN054080.D (-2216) (-)

Ion 43.00 (42.70 to 43.70): VN054080.D (-2216) (-)

Ion 58.00 (57.70 to 58.70): VN054080.D (-2216) (-)



#50

Toluene-d8

Concen: 53.077 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054080.D

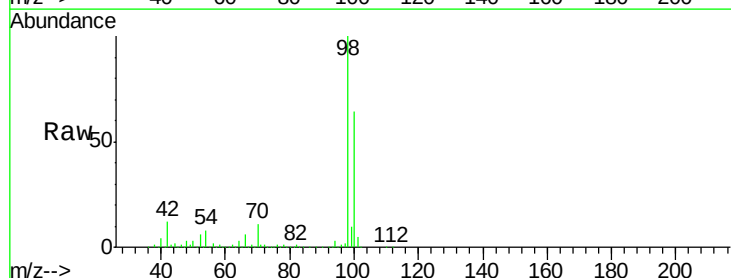
Acq: 4 Mar 2019 21:48

Tgt Ion: 98 Resp: 1406950

Ion Ratio Lower Upper

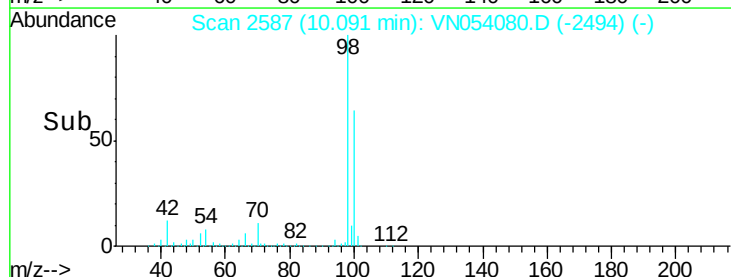
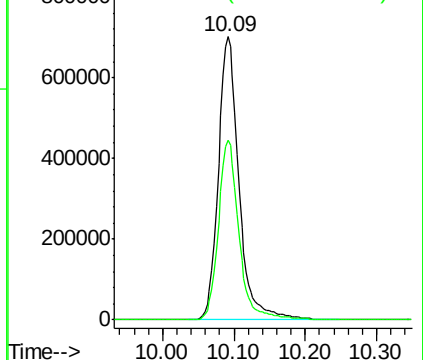
98 100

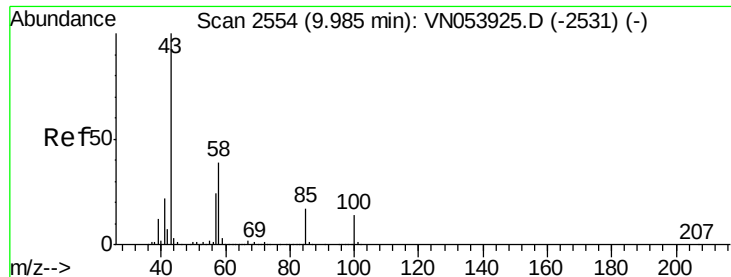
100 63.2 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN054080.D (-2494) (-)

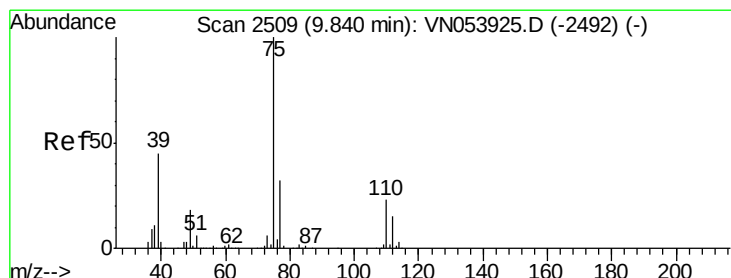
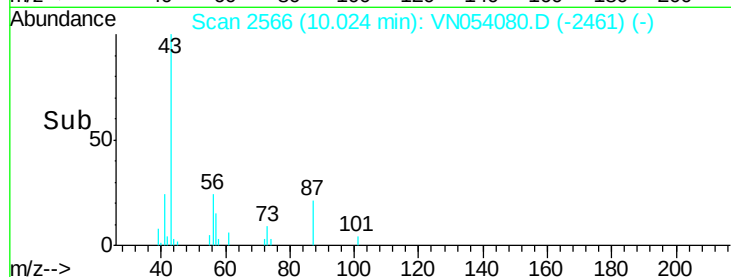
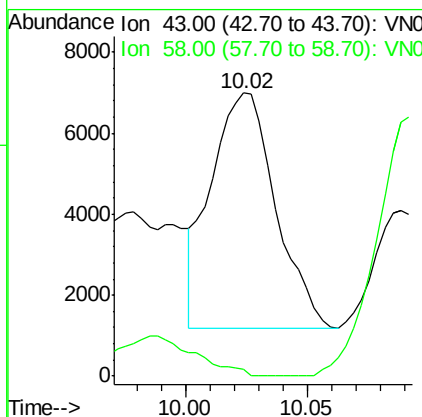
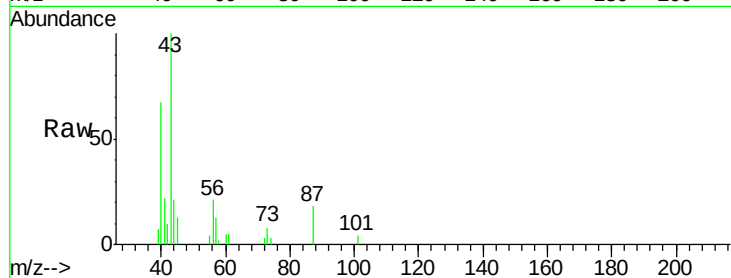
Ion 100.00 (99.70 to 100.70): VN054080.D (-2494) (-)





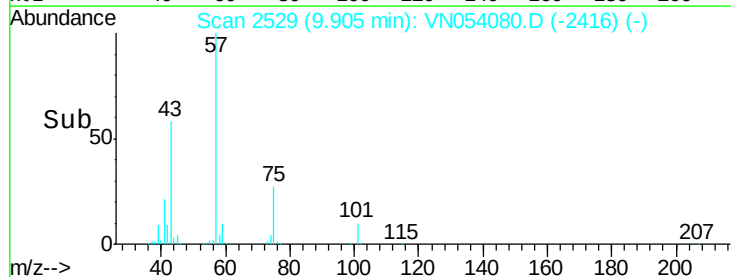
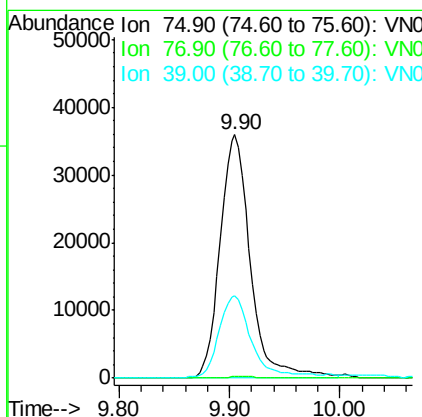
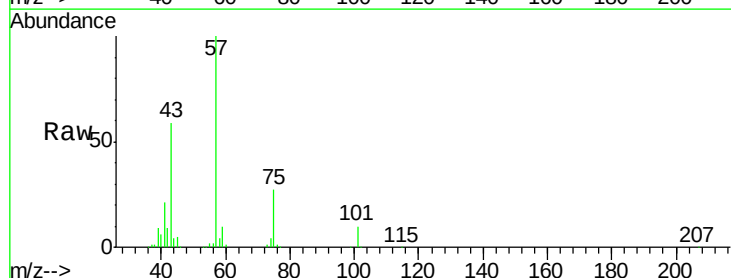
#51
 4-Methyl-2-Pentanone
 Concen: 1.688 ug/l
 RT: 10.02 min Scan# 2566
 Delta R.T. 0.04 min
 Lab File: VN054080.D
 Acq: 4 Mar 2019 21:48

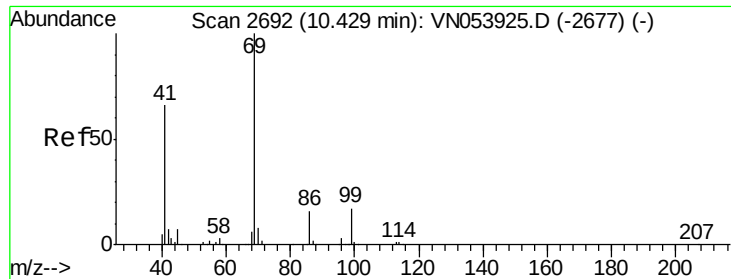
Tot Ion: 43 Resp: 10712
 Ion Ratio Lower Upper
 43 100
 58 0.0 32.7 49.1#



#54
 cis-1,3-Dichloropropene
 Concen: 5.742 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN054080.D
 Acq: 4 Mar 2019 21:48

Tgt Ion: 75 Resp: 68392
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.8 38.6#
 39 33.5 31.4 47.0





#56

Ethyl methacrylate

Concen: 2.125 ug/l

RT: 10.54 min Scan# 2725

Delta R.T. 0.11 min

Lab File: VN054080.D

Acq: 4 Mar 2019 21:48

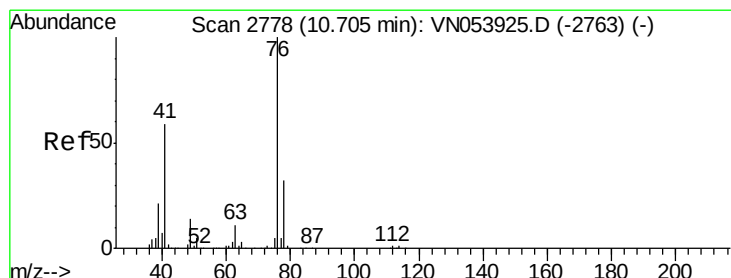
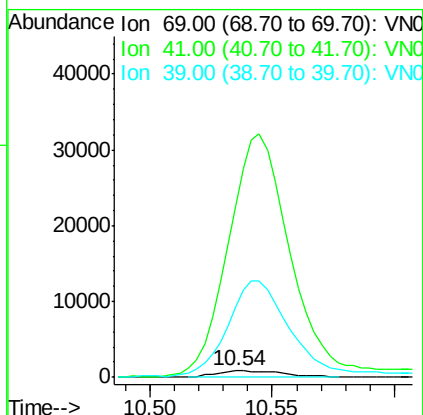
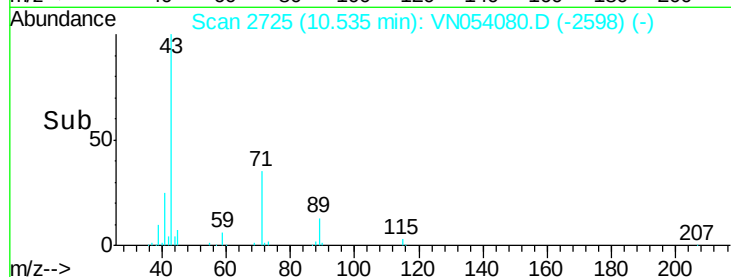
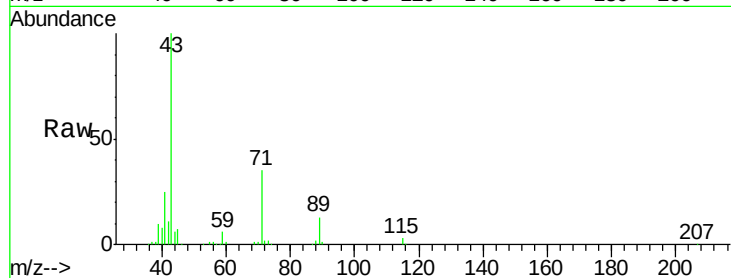
Tot Ion: 69 Resp: 1602

Ion Ratio Lower Upper

69 100

41 3598.9 47.5 71.3#

39 1410.3 23.4 35.0#



#57

1,3-Dichloropropane

Concen: 1.117 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN054080.D

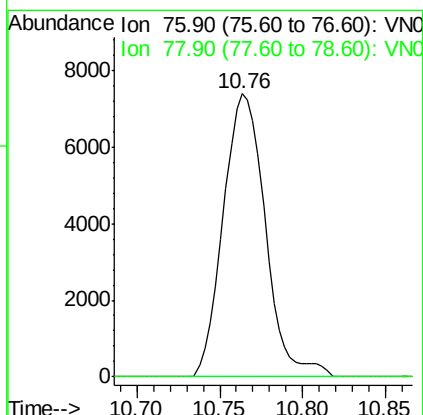
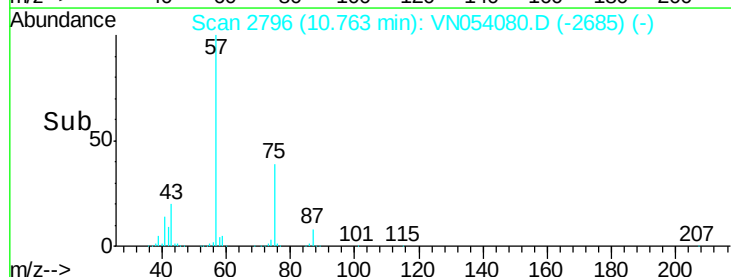
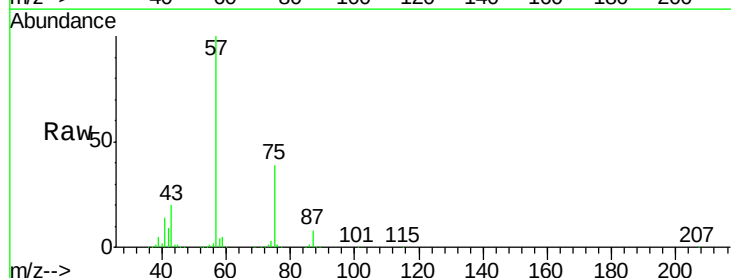
Acq: 4 Mar 2019 21:48

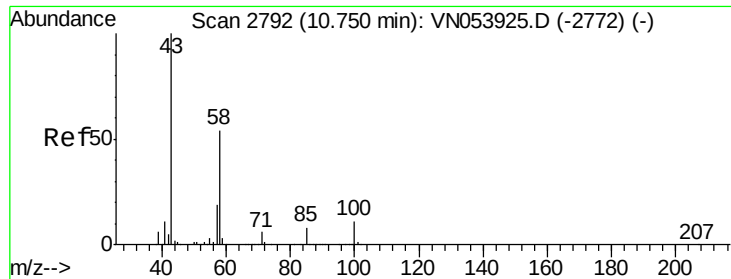
Tgt Ion: 76 Resp: 13060

Ion Ratio Lower Upper

76 100

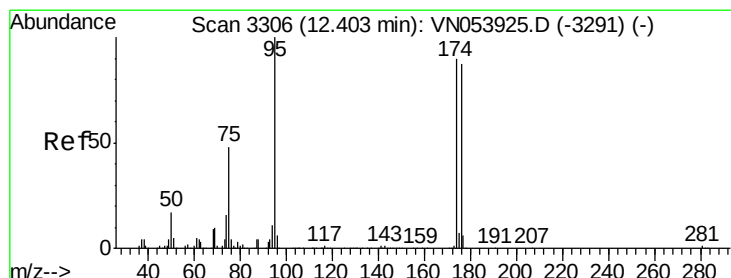
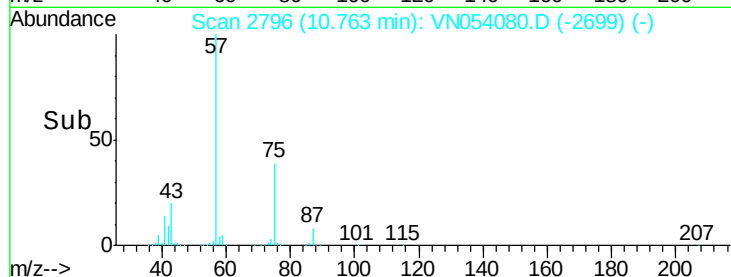
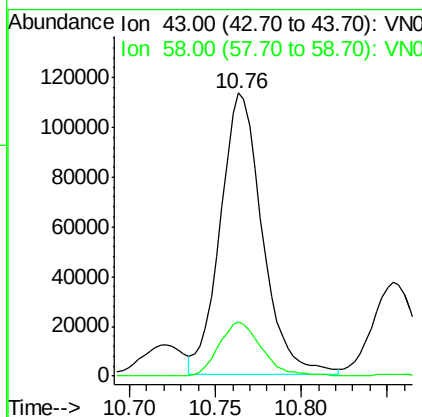
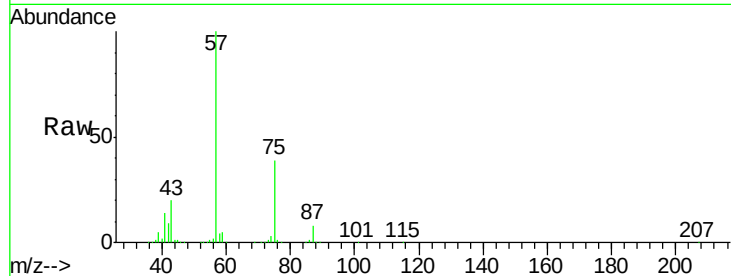
78 0.0 25.2 37.8#





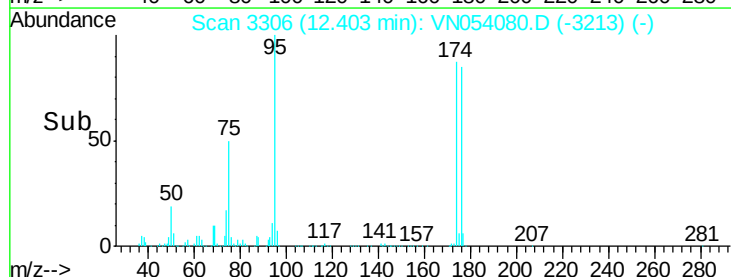
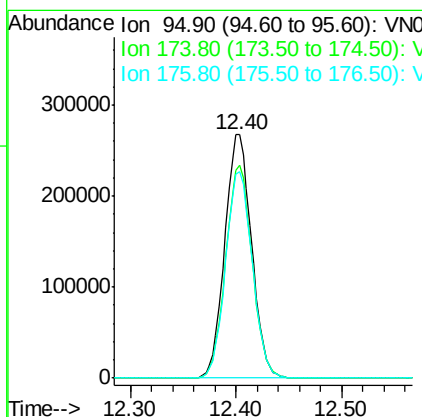
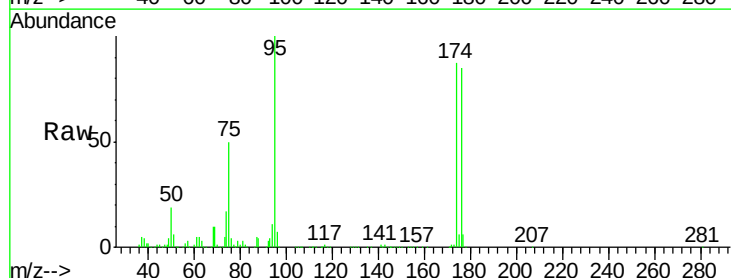
#59
2-Hexanone
Concen: 46.931 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN054080.D
Acq: 4 Mar 2019 21:48

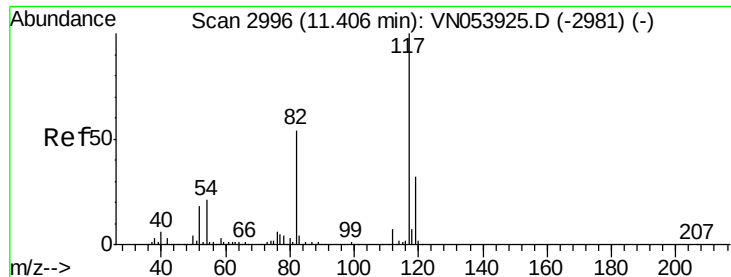
Tot Ion: 43 Resp: 193643
Ion Ratio Lower Upper
43 100
58 19.6 29.1 87.4#



#62
4-Bromofluorobenzene
Concen: 53.057 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN054080.D
Acq: 4 Mar 2019 21:48

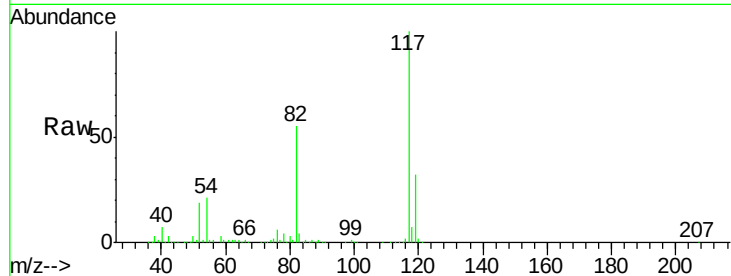
Tgt Ion: 95 Resp: 468578
Ion Ratio Lower Upper
95 100
174 86.4 0.0 188.8
176 84.8 0.0 182.6



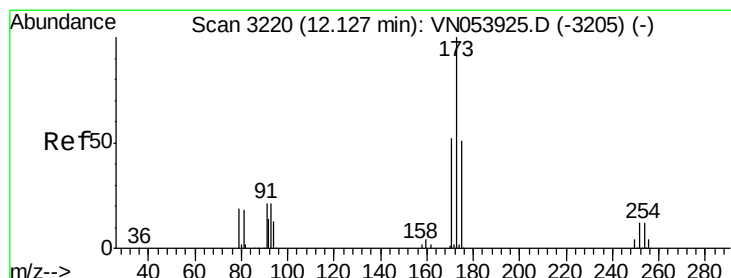
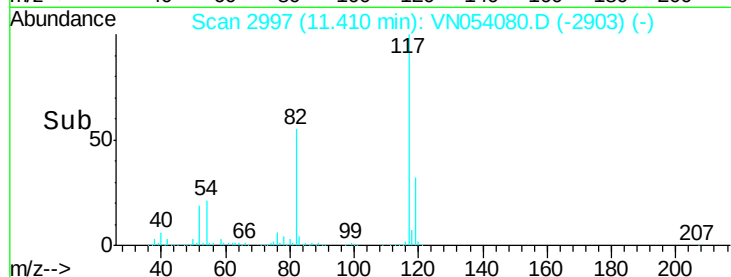
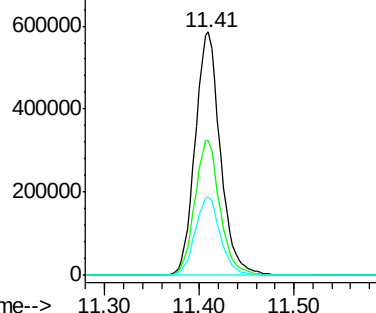


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN054080.D
Acq: 4 Mar 2019 21:48

Tot Ion:117 Resp: 1081977
Ion Ratio Lower Upper
117 100
82 55.5 41.4 62.2
119 32.4 25.3 37.9

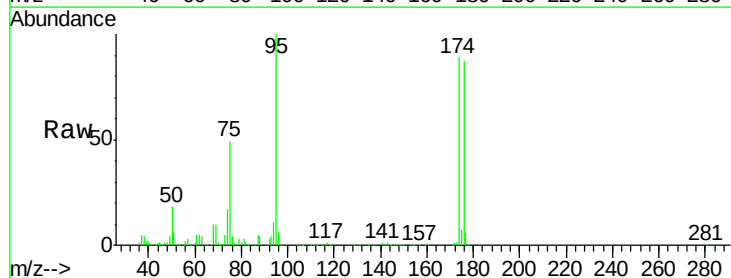


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

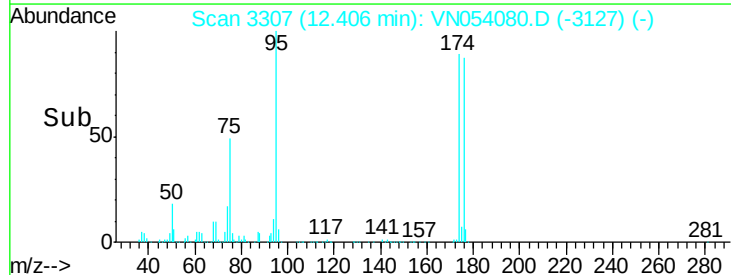
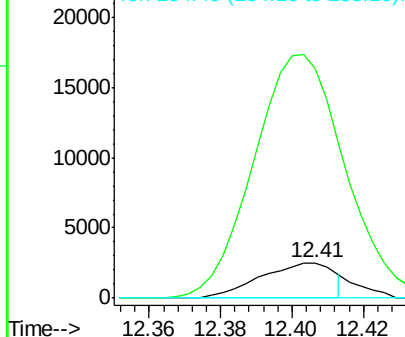


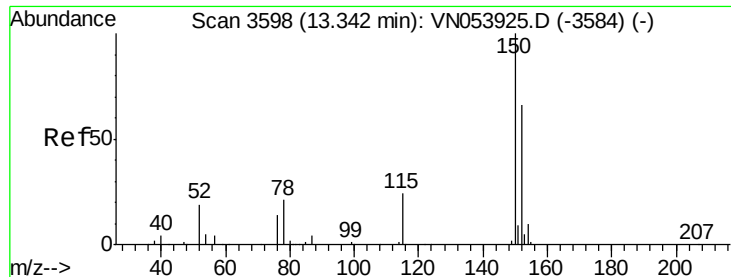
#71
Bromoform
Concen: 0.627 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN054080.D
Acq: 4 Mar 2019 21:48

Tgt Ion:173 Resp: 3592
Ion Ratio Lower Upper
173 100
175 728.2 24.3 72.8#
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

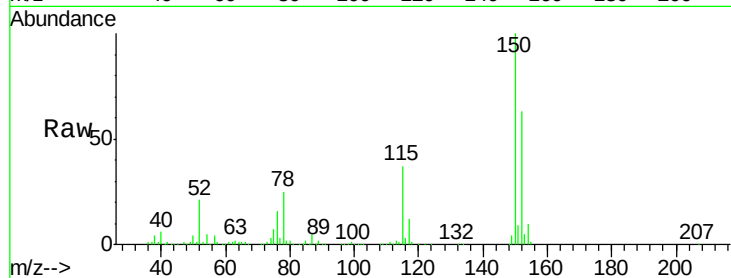




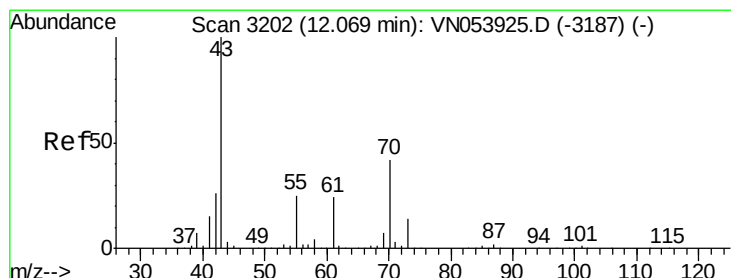
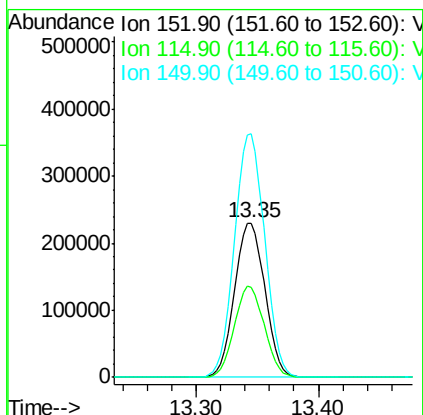
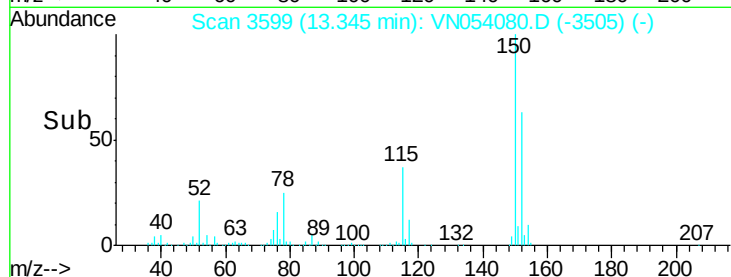
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN054080.D
Acq: 4 Mar 2019 21:48

Tot Ion	Ratio	Lower	Upper
152	100		
115	58.1	27.2	81.6
150	157.7	0.0	348.2



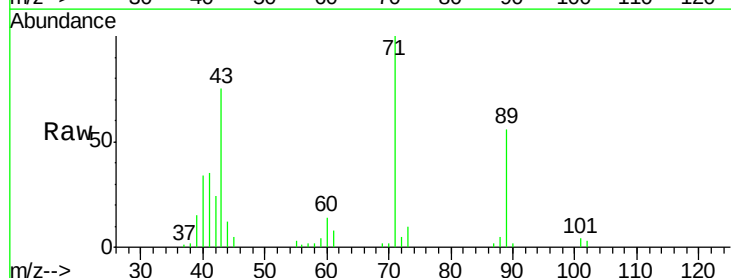
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



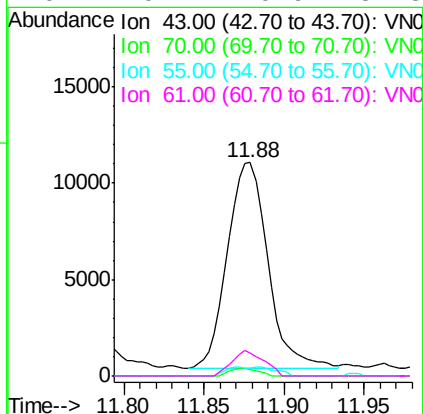
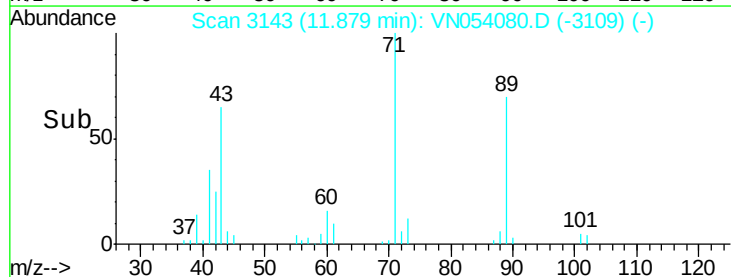
#74

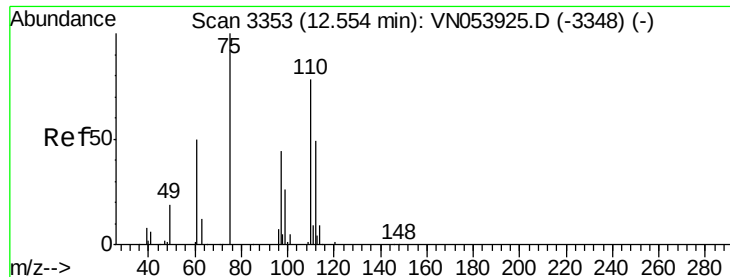
N-ethyl acetate
Concen: 2.307 ug/l
RT: 11.88 min Scan# 3143
Delta R.T. -0.19 min
Lab File: VN054080.D
Acq: 4 Mar 2019 21:48

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.7	37.4	56.2#
55	2.2	21.4	32.0#
61	9.4	20.9	31.3#



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

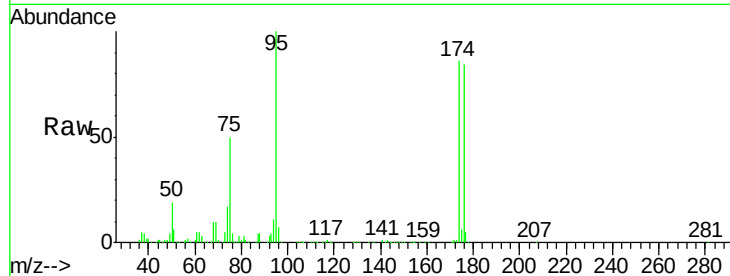




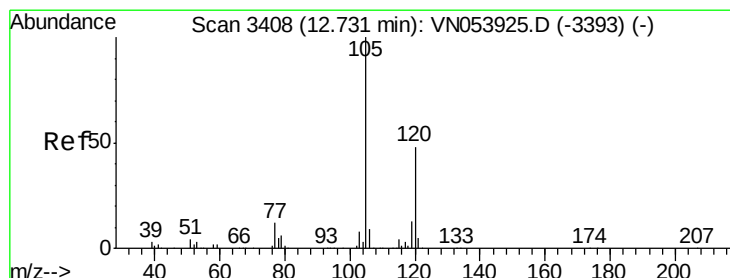
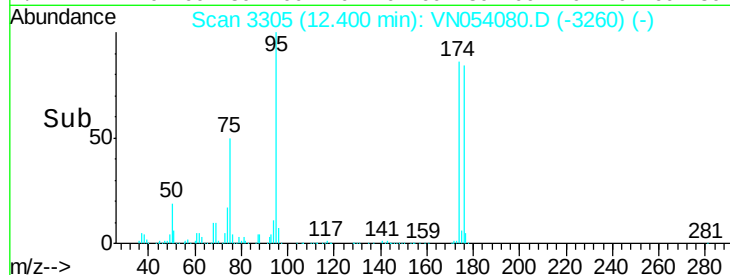
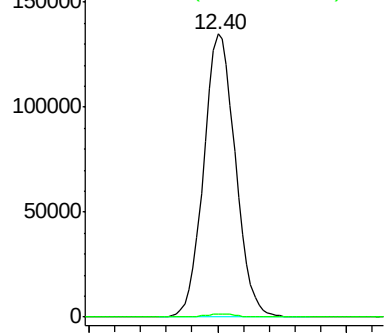
#76

1,2,3-Trichloropropane
Concen: 36.269 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN054080.D
Acq: 4 Mar 2019 21:48

Tot Ion: 75 Resp: 230444
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#



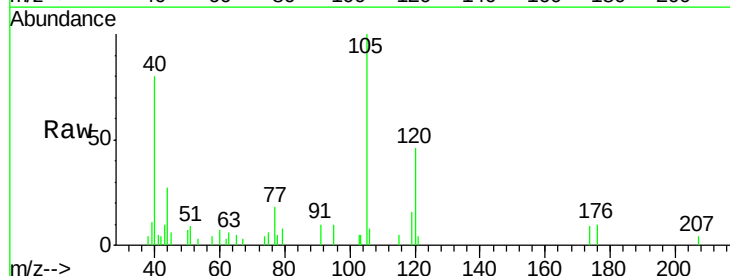
Abundance Ion 74.90 (74.60 to 75.60): VN054080.D (-3305) (-)
Ion 77.00 (76.70 to 77.70): VN054080.D (-3305) (-)



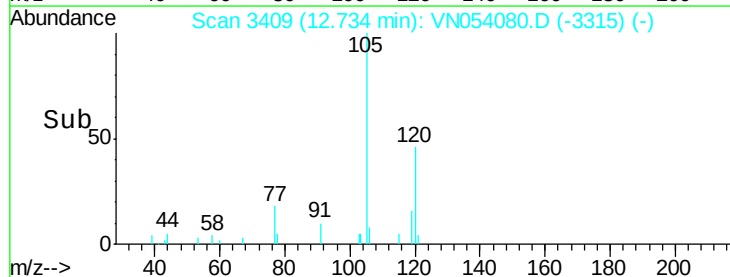
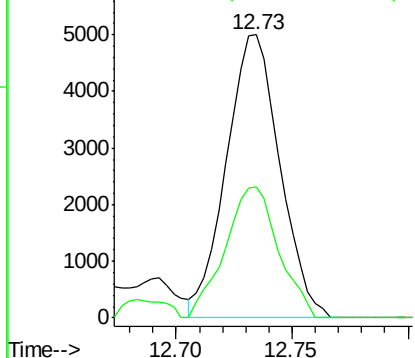
#80

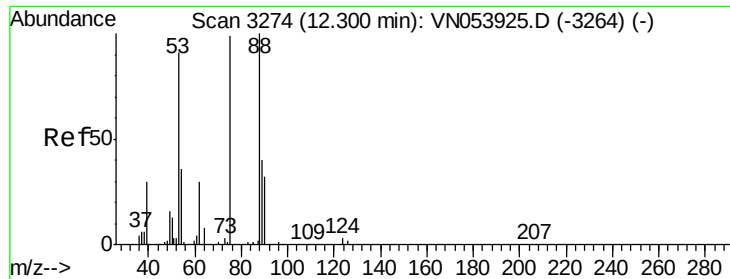
1,3,5-Trimethylbenzene
Concen: 0.317 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. 0.00 min
Lab File: VN054080.D
Acq: 4 Mar 2019 21:48

Tgt Ion: 105 Resp: 8013
Ion Ratio Lower Upper
105 100
120 46.3 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): VN054080.D (-3315) (-)
Ion 120.00 (119.70 to 120.70): VN054080.D (-3315) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 114.632 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054080.D

Acq: 4 Mar 2019 21:48

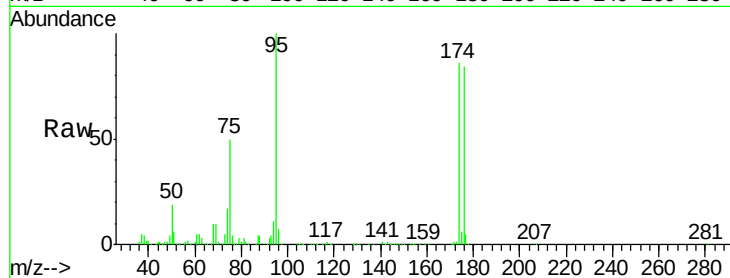
Tot Ion: 75 Resp: 230444

Ion Ratio Lower Upper

75 100

53 0.1 68.6 102.8#

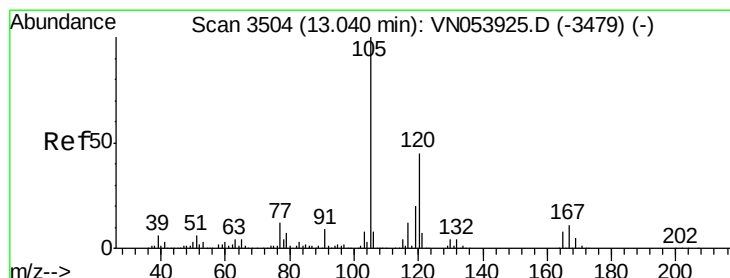
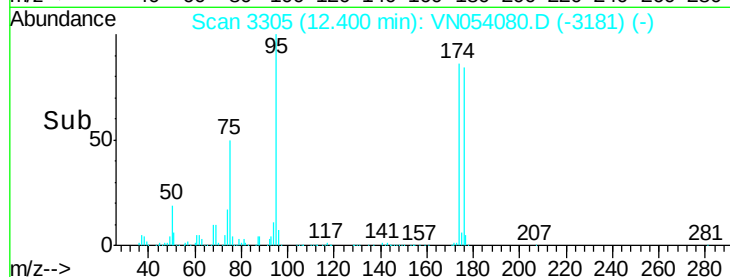
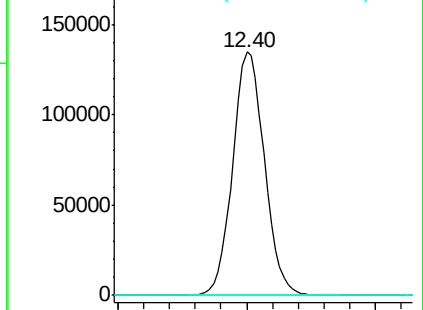
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN054080.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN054080.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN054080.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.214 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054080.D

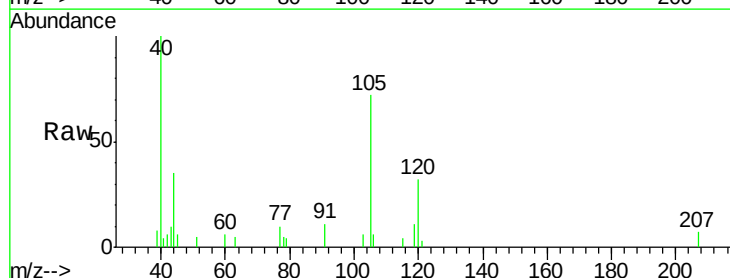
Acq: 4 Mar 2019 21:48

Tgt Ion: 105 Resp: 5385

Ion Ratio Lower Upper

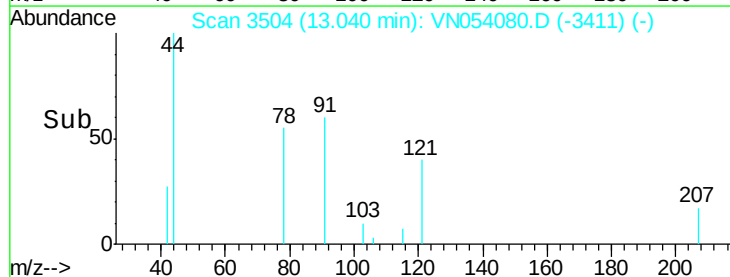
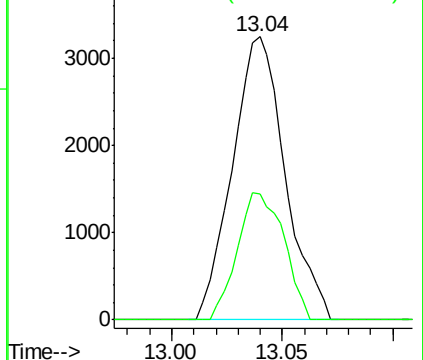
105 100

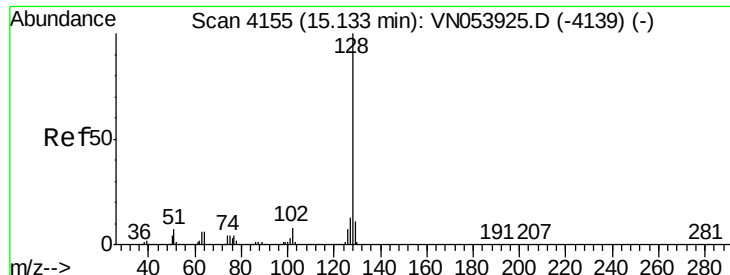
120 39.8 23.2 69.5



Abundance Ion 105.00 (104.70 to 105.70): VN054080.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN054080.D (-3411) (-)





#95

Naphthalene

Concen: 3.412 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054080.D

Acq: 4 Mar 2019 21:48

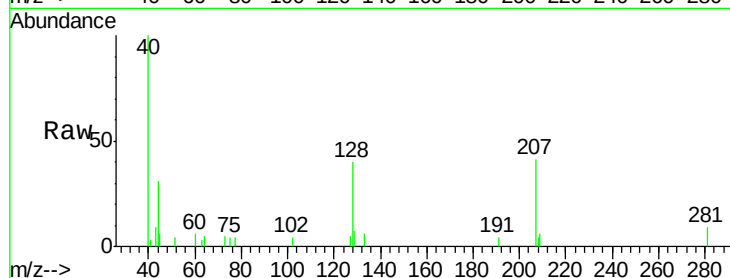
Tot Ion:128 Resp: 3354

Ion Ratio Lower Upper

128 100

127 8.9 10.2 15.2#

129 10.2 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

