

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020719\
 Data File : VN053655.D
 Acq On : 7 Feb 2019 15:00
 Operator : JC/SP
 Sample : PB116887ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

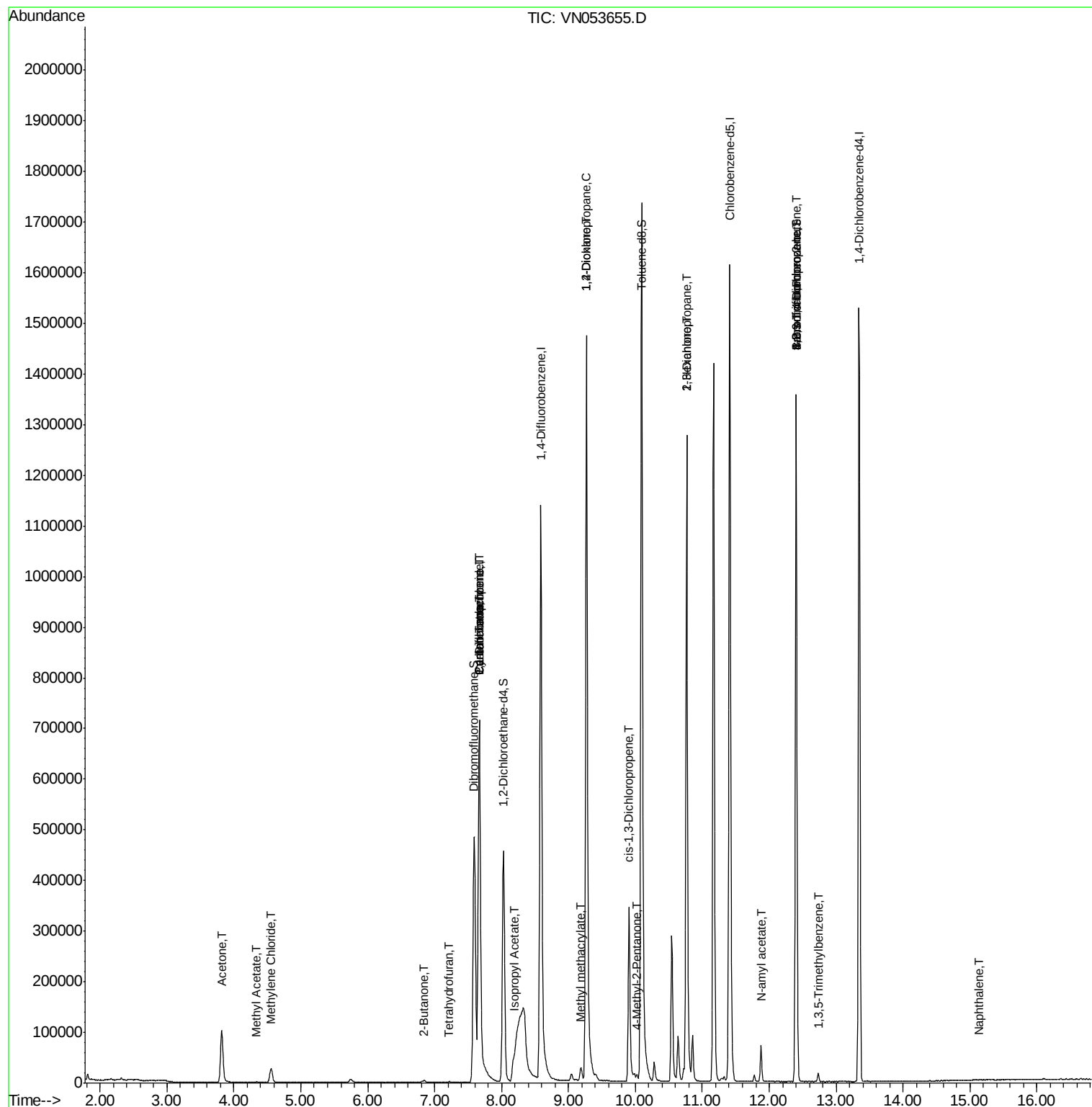
Quant Time: Feb 09 00:29:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	737690	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1215685	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1102966	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	449058	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	394879	53.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.72%	
35) Dibromofluoromethane	7.59	113	386495	50.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.62%	
50) Toluene-d8	10.09	98	1459492	50.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.20%	
62) 4-Bromofluorobenzene	12.40	95	473213	49.19	ug/l	0.00
Spiked Amount 50.000			Recovery	=	98.38%	
Target Compounds						
					Qvalue	
16) Acetone	3.82	43	176974	93.231	ug/l	99
18) Methyl Acetate	4.33	43	1226	0.218	ug/l #	51
20) Methylene Chloride	4.56	84	21022	2.640	ug/l	96
25) 2-Butanone	6.85	43	4039	1.492	ug/l	95
29) Tetrahydrofuran	7.21	42	568	0.327	ug/l #	82
31) Cyclohexane	7.66	56	10219	0.649	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43210	3.943	ug/l #	48
38) Carbon Tetrachloride	7.67	117	59210	5.363	ug/l #	16
43) Isopropyl Acetate	8.18	43	37674	3.187	ug/l #	77
45) 1,2-Dichloropropane	9.27	63	1941	0.225	ug/l #	43
48) Methyl methacrylate	9.18	41	10575	1.874	ug/l #	12
49) 1,4-Dioxane	9.26	88	65	39.862	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	9536	1.642	ug/l #	34
54) cis-1,3-Dichloropropene	9.91	75	73858	5.745	ug/l #	63
57) 1,3-Dichloropropane	10.77	76	15101	1.223	ug/l #	43
59) 2-Hexanone	10.77	43	186692	47.346	ug/l #	51
71) Bromoform	12.40	173	1446	0.258	ug/l #	1
74) N-amyl acetate	11.88	43	22201	2.925	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	220411	38.214	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7924	0.303	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	220411	107.454	ug/l #	15
95) Naphthalene	15.13	128	30	1.738	ug/l #	69

(#) = 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: VN053655.D

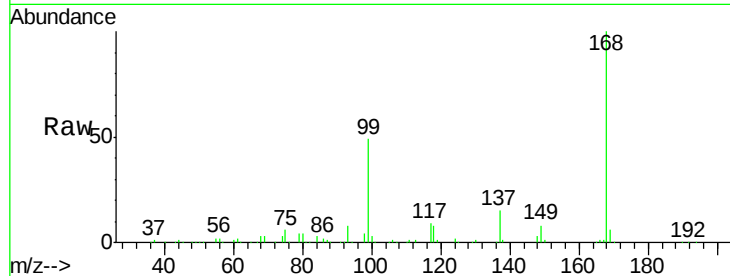
Acq: 7 Feb 2019 15:00

Tot Ion:168 Resp: 737690

Ion Ratio Lower Upper

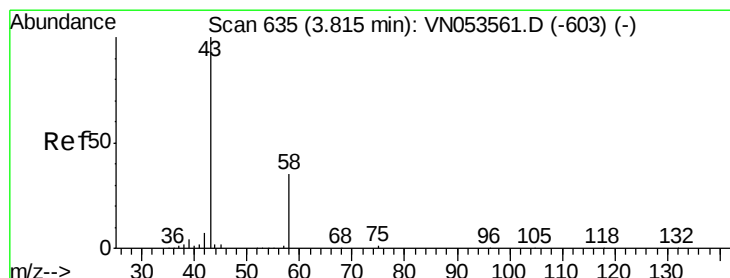
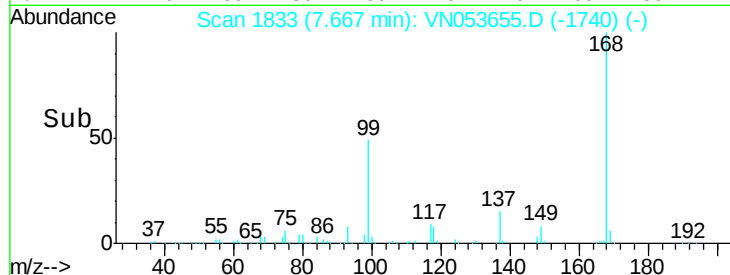
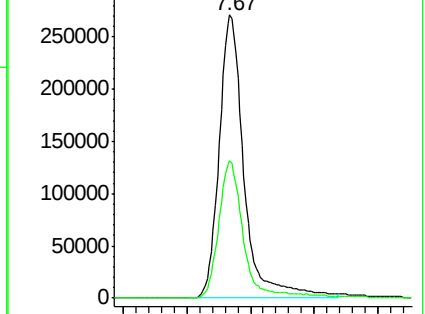
168 100

99 48.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 93.231 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053655.D

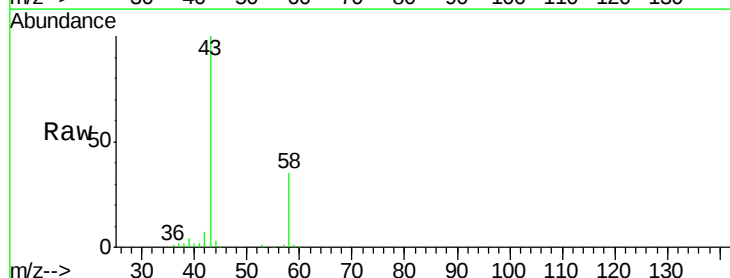
Acq: 7 Feb 2019 15:00

Tgt Ion: 43 Resp: 176974

Ion Ratio Lower Upper

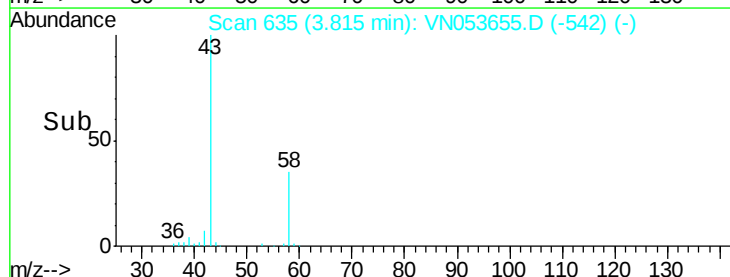
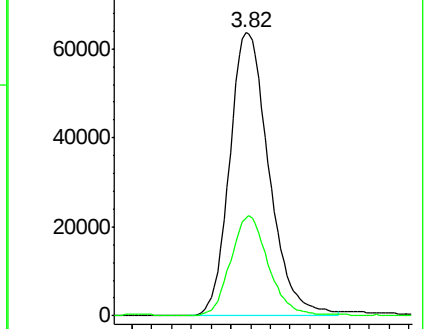
43 100

58 34.7 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#18

Methyl Acetate

Concen: 0.218 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053655.D

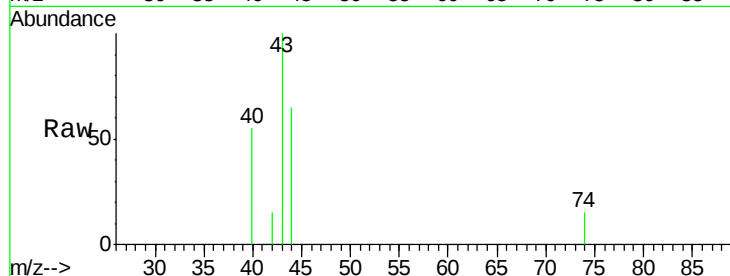
Acq: 7 Feb 2019 15:00

Tot Ion: 43 Resp: 1226

Ion Ratio Lower Upper

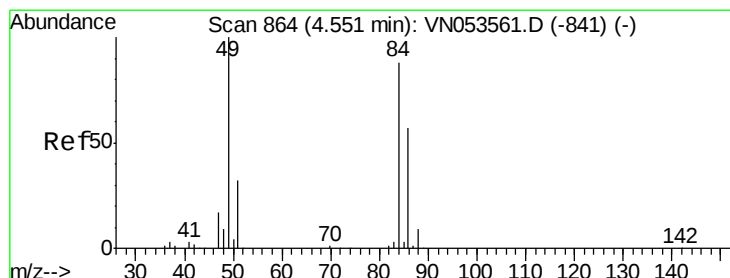
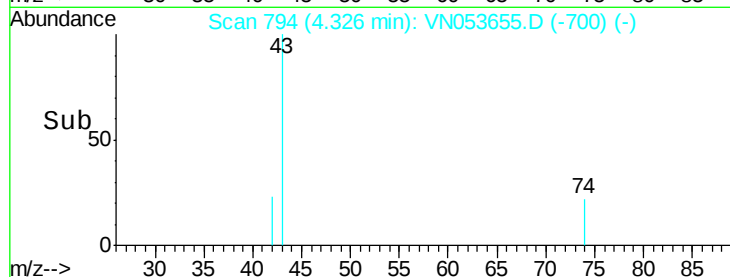
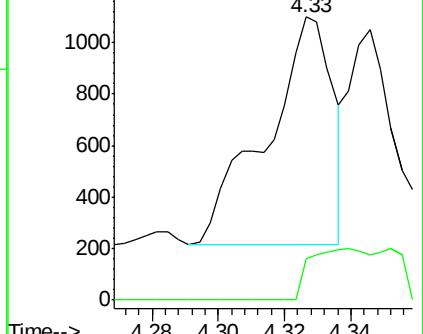
43 100

74 0.0 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#20

Methylene Chloride

Concen: 2.640 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.01 min

Lab File: VN053655.D

Acq: 7 Feb 2019 15:00

Tgt Ion: 84 Resp: 21022

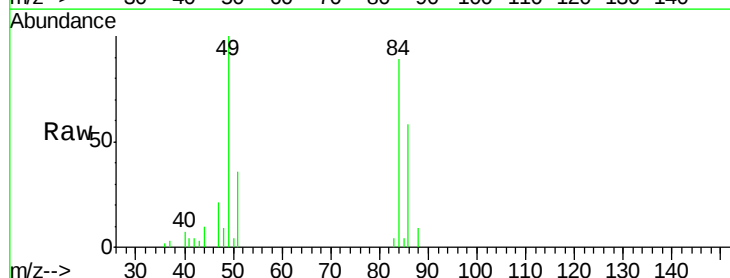
Ion Ratio Lower Upper

84 100

49 112.5 94.3 141.5

51 40.3 29.4 44.2

86 65.0 51.4 77.0

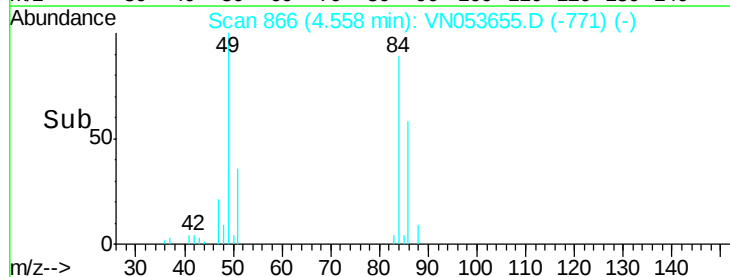
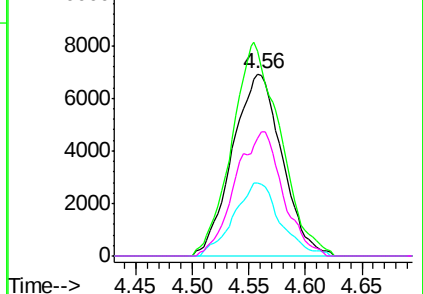


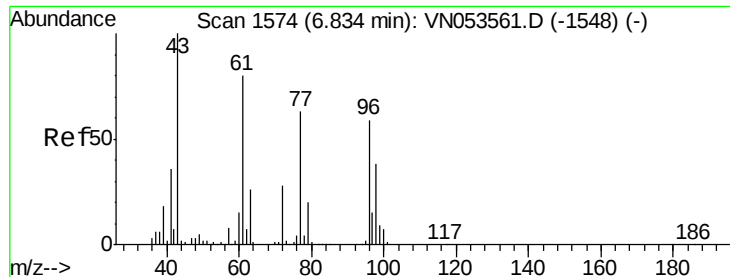
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

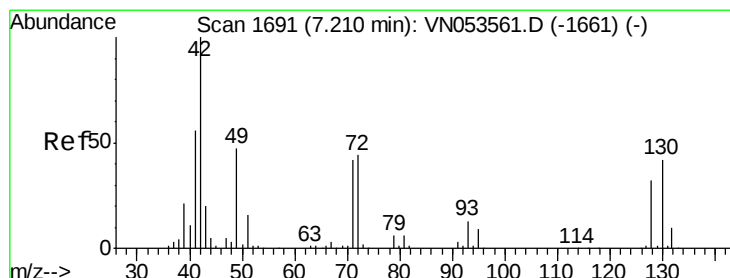
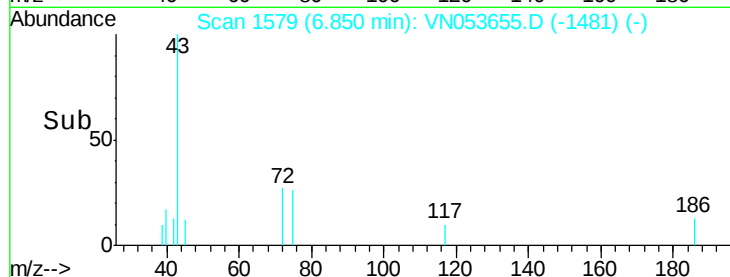
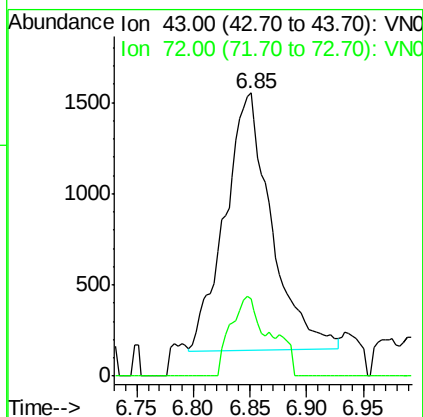
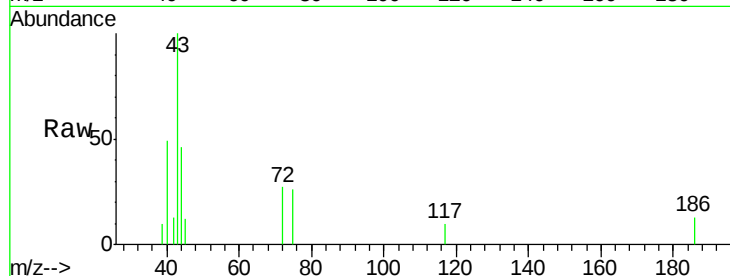
Ion 85.90 (85.60 to 86.60): VN0





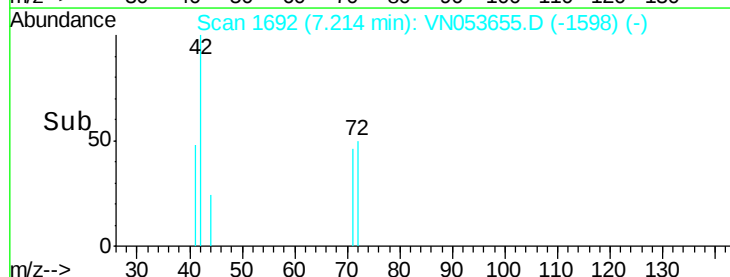
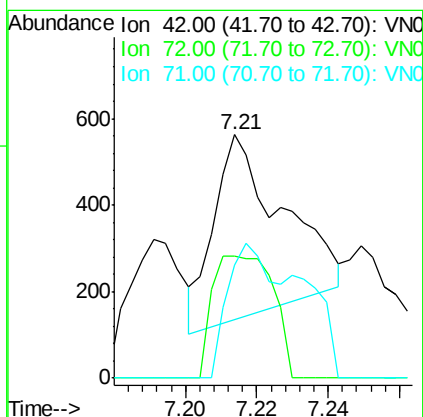
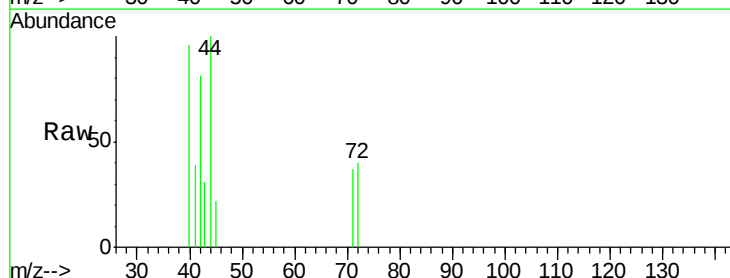
#25
2-Butanone
Concen: 1.492 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.02 min
Lab File: VN053655.D
Acq: 7 Feb 2019 15:00

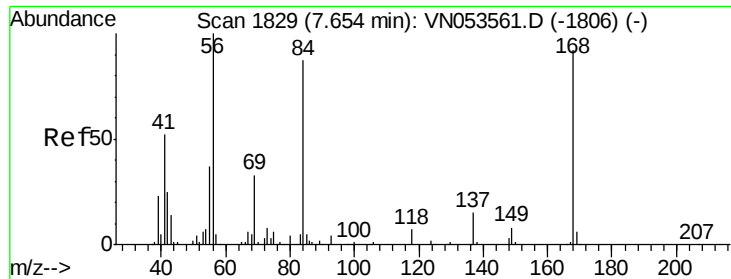
Tot Ion: 43 Resp: 4039
Ion Ratio Lower Upper
43 100
72 30.1 22.0 33.0



#29
Tetrahydrofuran
Concen: 0.327 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN053655.D
Acq: 7 Feb 2019 15:00

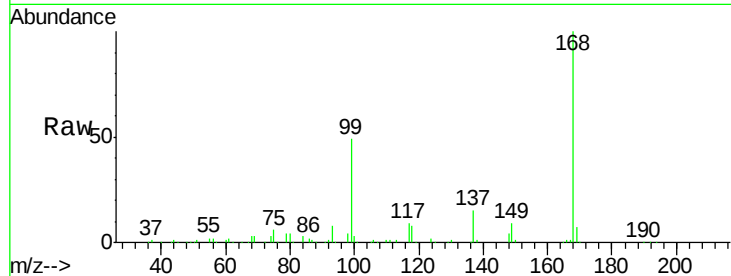
Tgt Ion: 42 Resp: 568
Ion Ratio Lower Upper
42 100
72 58.5 35.2 52.8#
71 49.6 33.0 49.4#



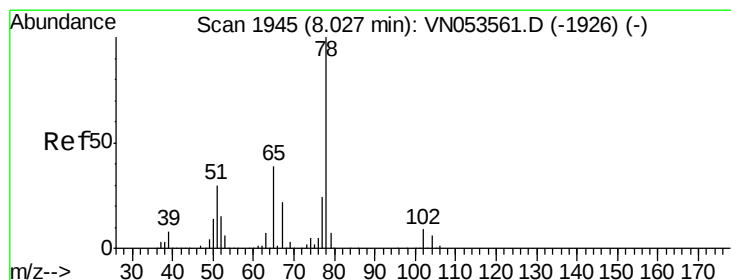
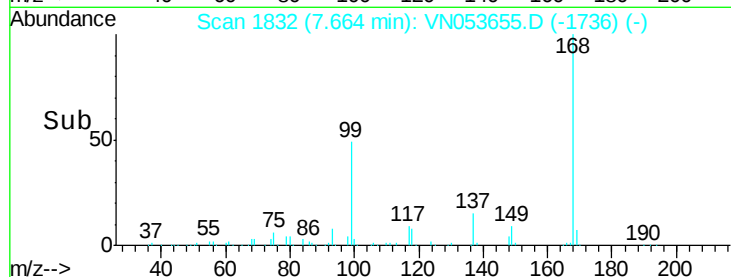
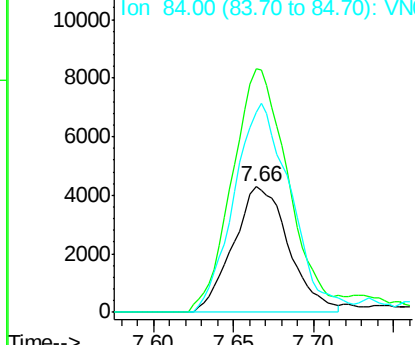


#31
Cvclohexane
Concen: 0.649 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN053655.D
Acq: 7 Feb 2019 15:00

Tot Ion: 56 Resp: 10219
Ion Ratio Lower Upper
56 100
69 193.6 26.4 39.6#
84 159.3 67.9 101.9#

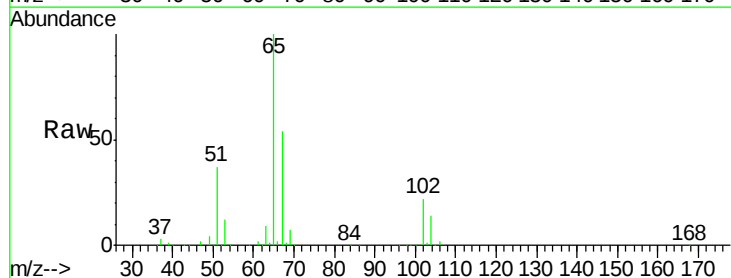


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

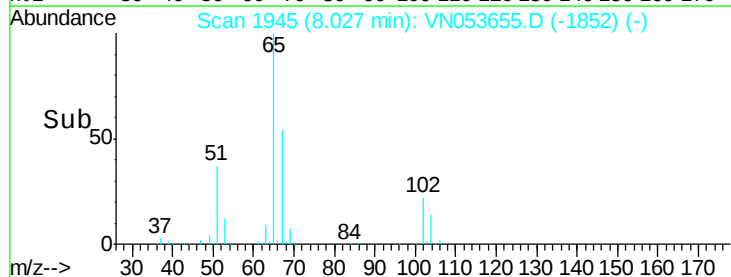
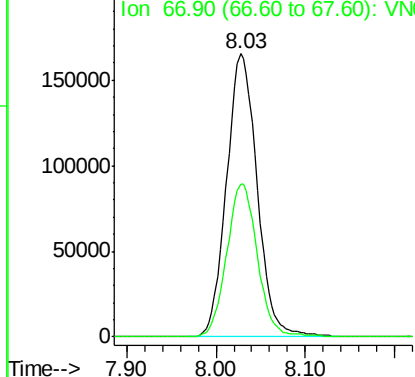


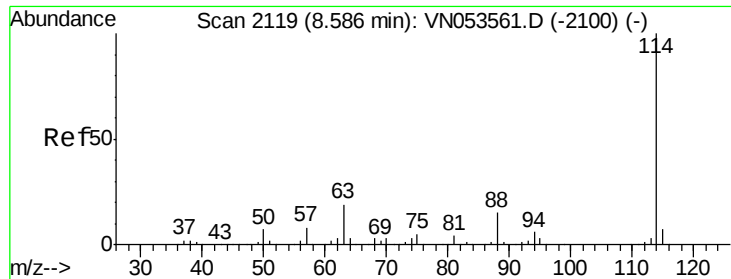
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN053655.D
Acq: 7 Feb 2019 15:00

Tgt Ion: 65 Resp: 394879
Ion Ratio Lower Upper
65 100
67 54.1 0.0 111.2



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

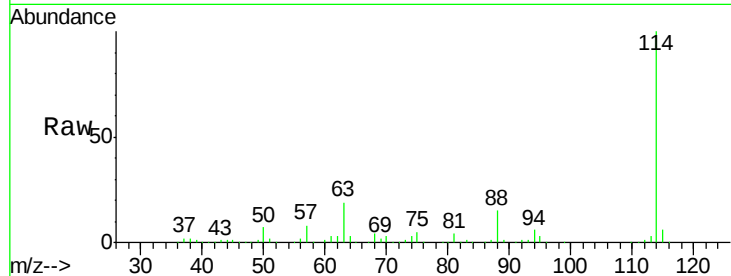




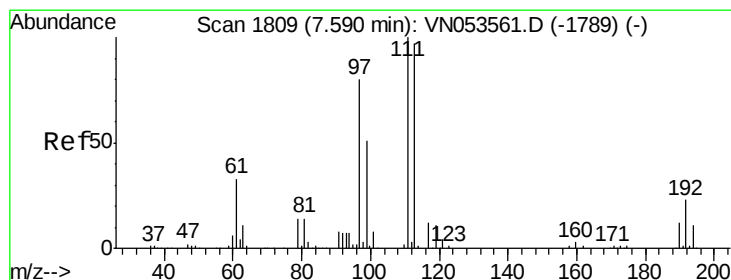
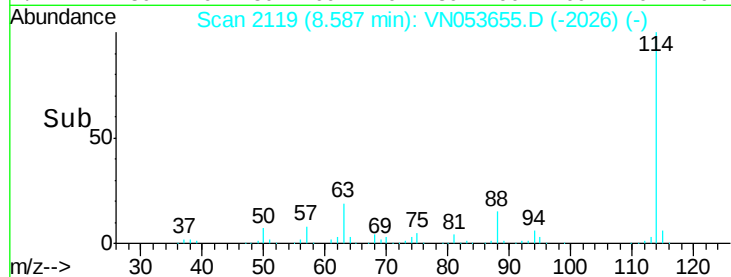
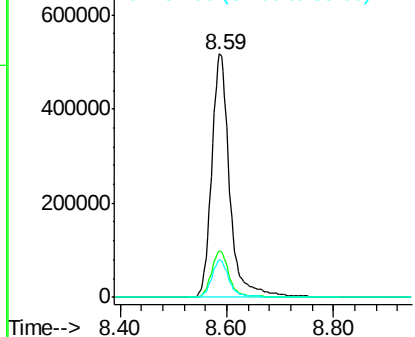
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053655.D
 Acq: 7 Feb 2019 15:00

Tot Ion:114 Resp: 1215685

Ion	Ratio	Lower	Upper
114	100		
63	19.1	0.0	38.6
88	15.4	0.0	30.4



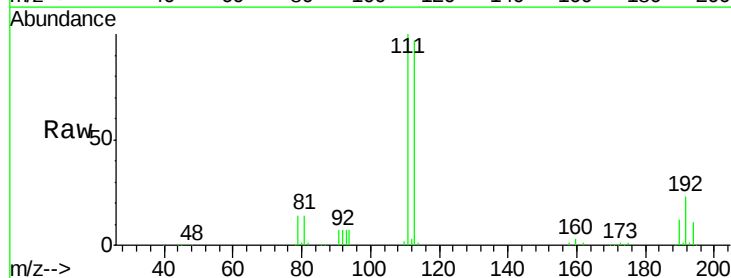
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN



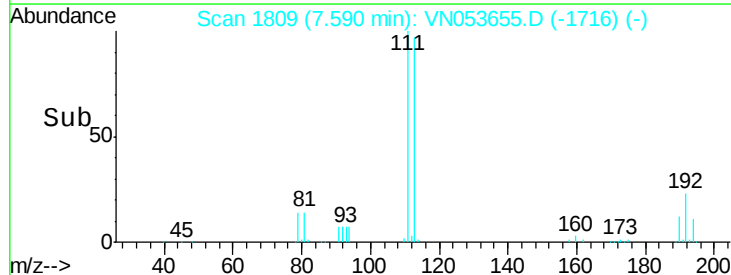
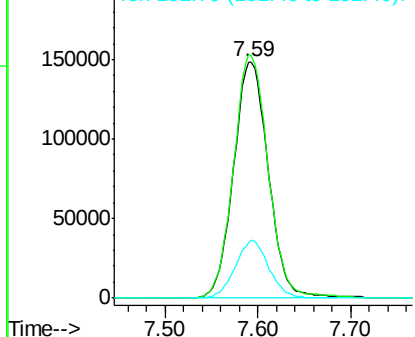
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053655.D
 Acq: 7 Feb 2019 15:00

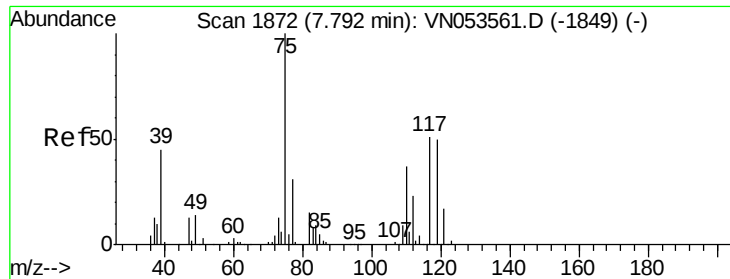
Tgt Ion:113 Resp: 386495

Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.1	121.7
192	23.6	18.2	27.2



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: 3.943 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053655.D

Acq: 7 Feb 2019 15:00

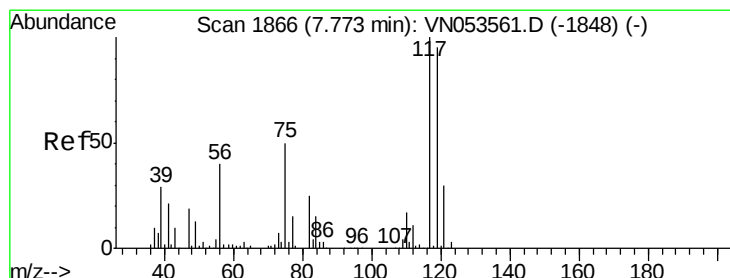
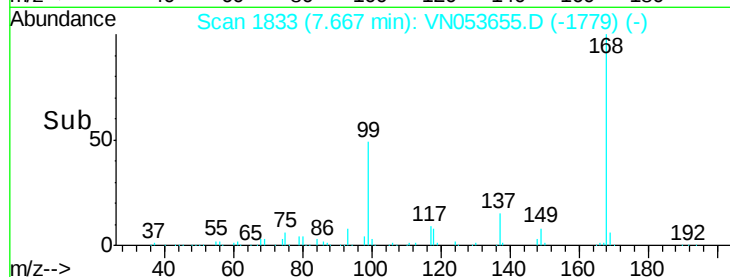
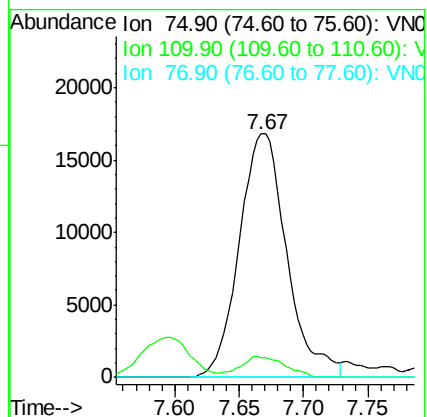
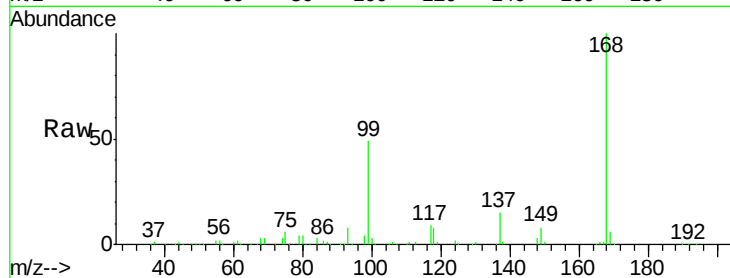
Tot Ion: 75 Resp: 43210

Ion Ratio Lower Upper

75 100

110 8.1 18.1 54.3#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.363 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053655.D

Acq: 7 Feb 2019 15:00

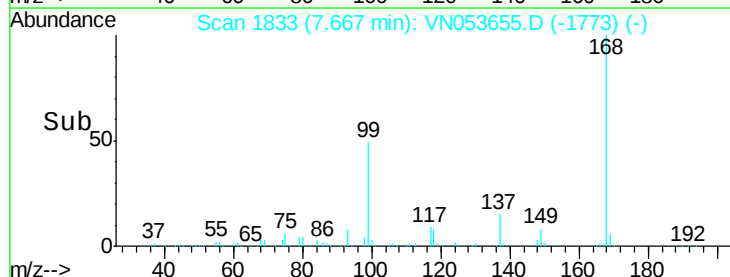
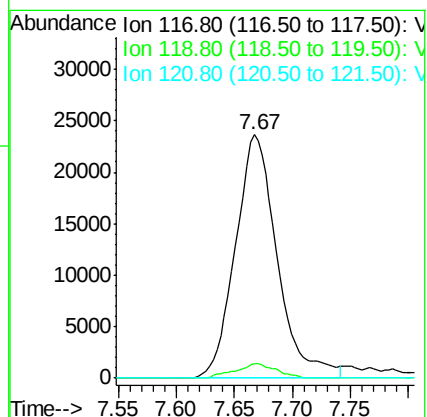
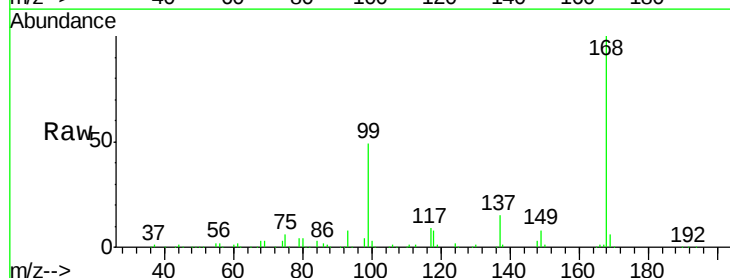
Tgt Ion: 117 Resp: 59210

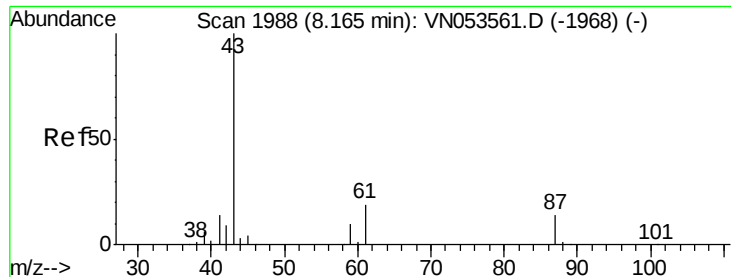
Ion Ratio Lower Upper

117 100

119 5.8 77.2 115.8#

121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 3.187 ug/l

RT: 8.18 min Scan# 1992

Delta R.T. 0.01 min

Lab File: VN053655.D

Acq: 7 Feb 2019 15:00

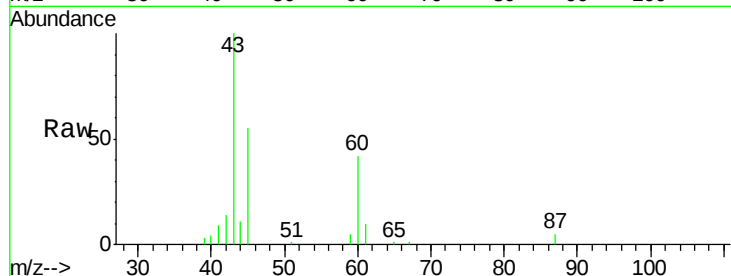
Tot Ion: 43 Resp: 37674

Ion Ratio Lower Upper

43 100

61 14.4 23.9 35.9#

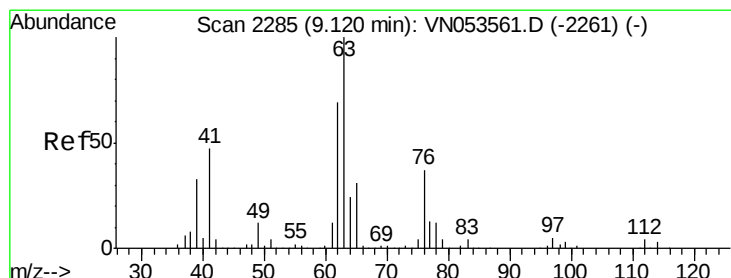
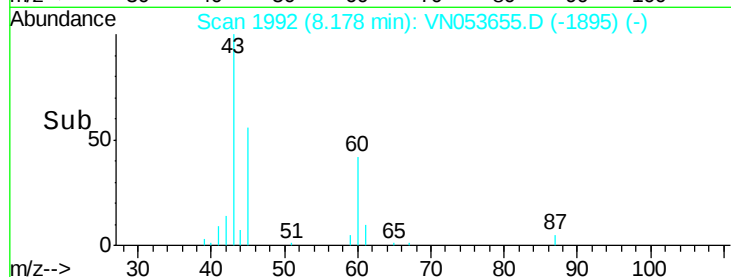
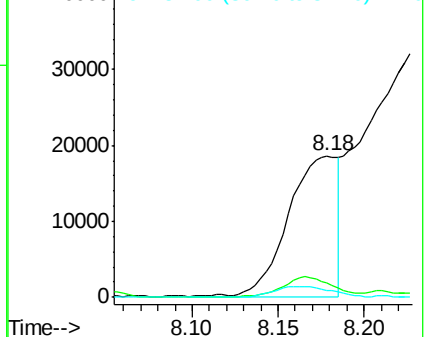
87 8.9 11.0 16.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.225 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN053655.D

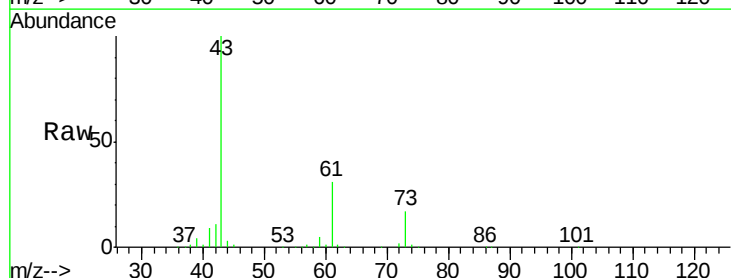
Acq: 7 Feb 2019 15:00

Tgt Ion: 63 Resp: 1941

Ion Ratio Lower Upper

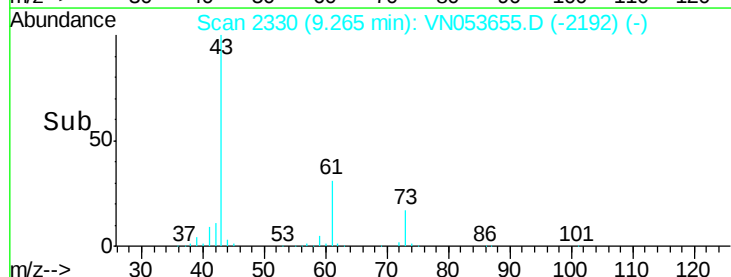
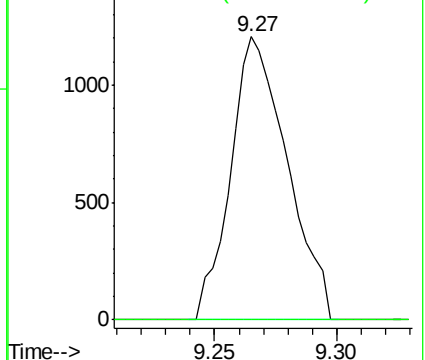
63 100

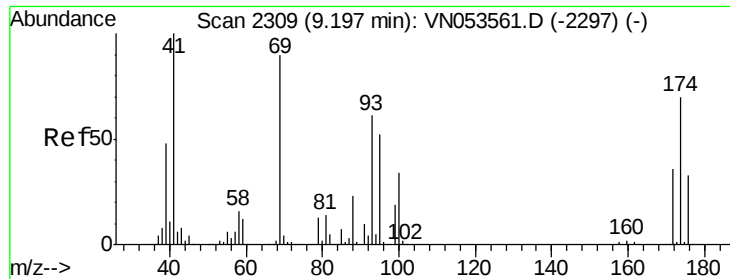
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

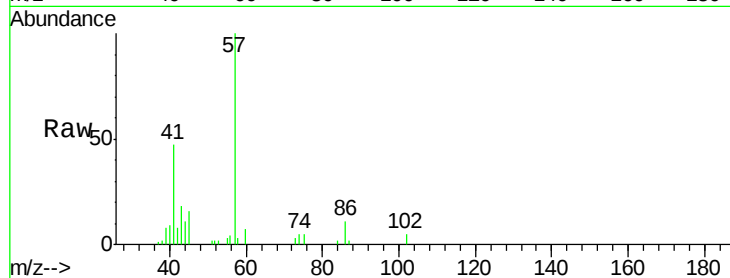
Ion 64.90 (64.60 to 65.60): VN0



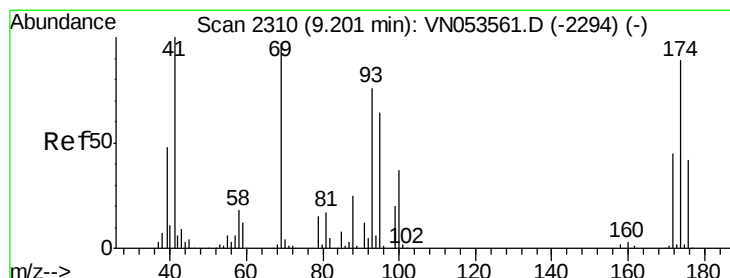
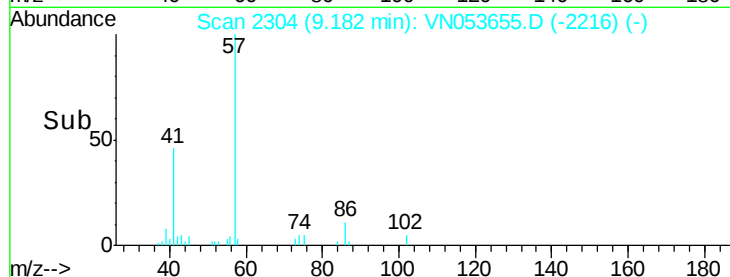
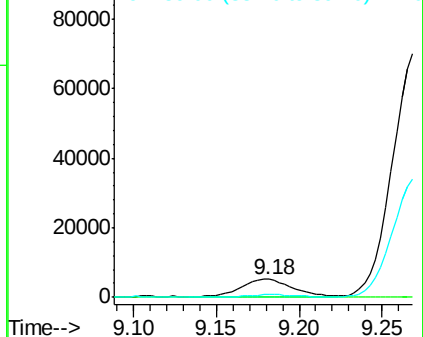


#48
Methvl methacrylate
Concen: 1.874 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN053655.D
Acq: 7 Feb 2019 15:00

Tot Ion: 41 Resp: 10575
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#

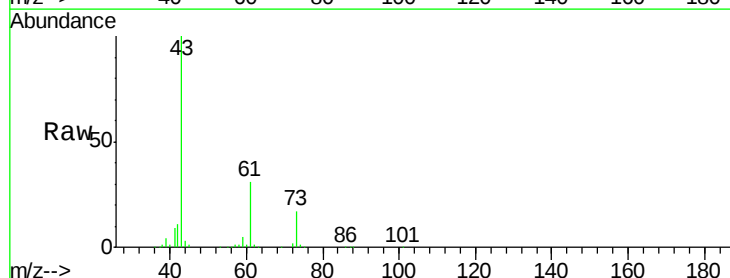


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

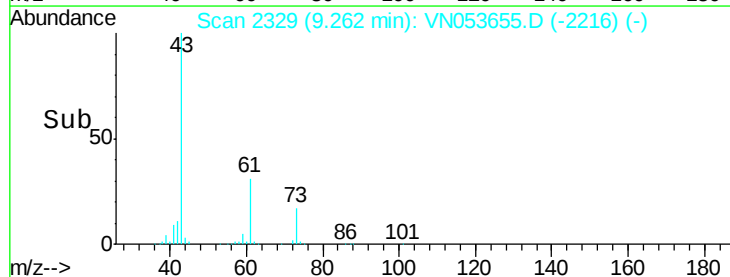
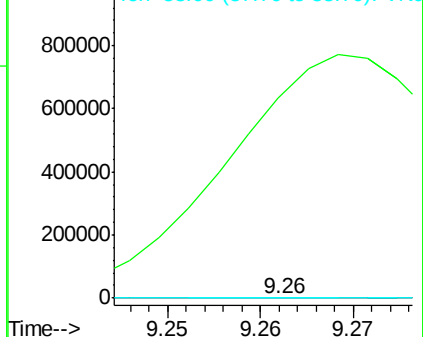


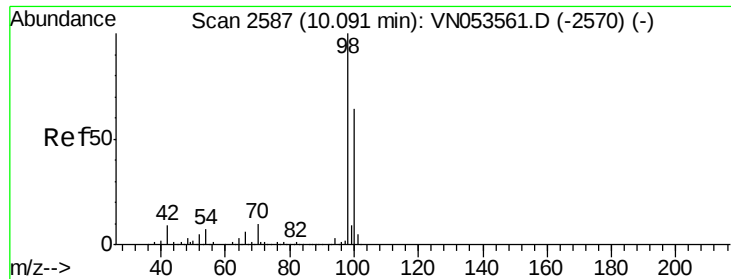
#49
1,4-Dioxane
Concen: 39.862 ug/l
RT: 9.26 min Scan# 2329
Delta R.T. 0.06 min
Lab File: VN053655.D
Acq: 7 Feb 2019 15:00

Tgt Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 2456273.8 27.8 41.6#
58 12018.5 56.5 84.7#



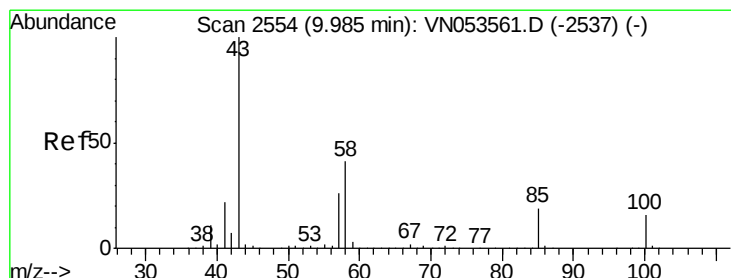
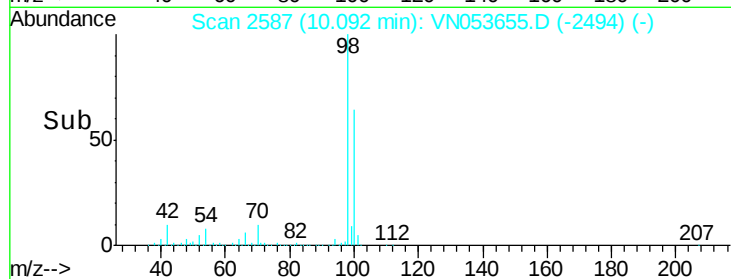
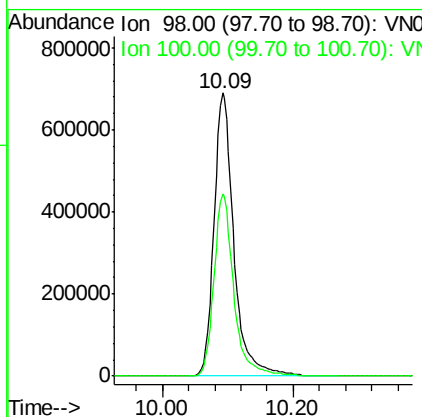
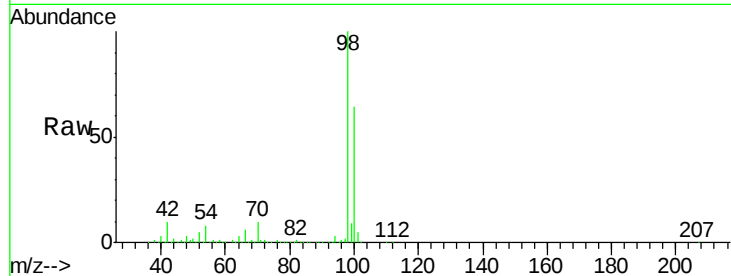
Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0





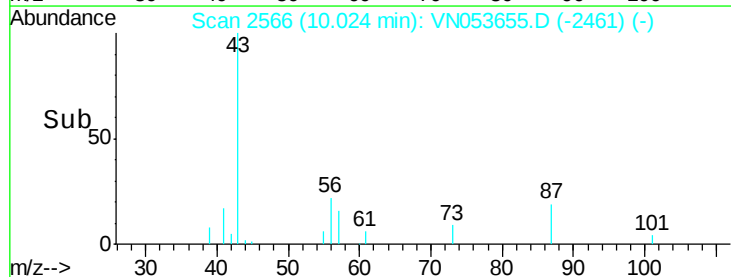
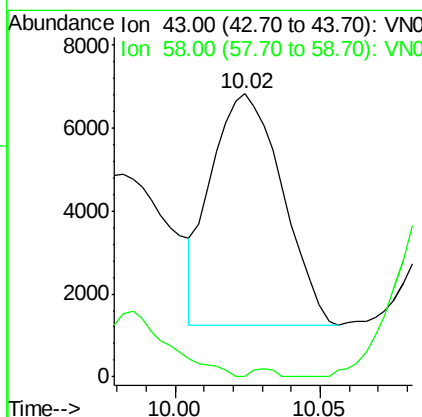
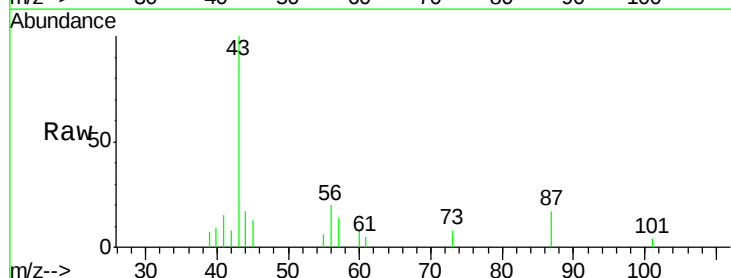
#50
Toluene-d8
Concen: 39.862 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053655.D
Acq: 7 Feb 2019 15:00

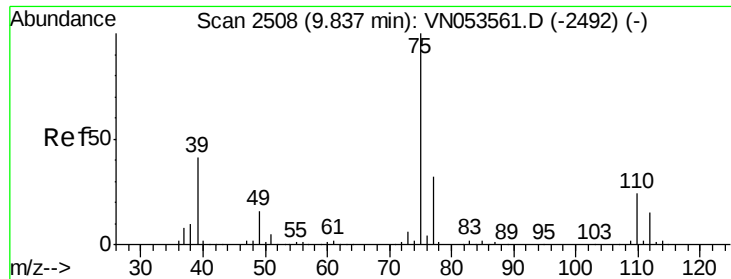
Tot Ion: 98 Resp: 1459492
Ion Ratio Lower Upper
98 100
100 64.4 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 1.642 ug/l
RT: 10.02 min Scan# 2566
Delta R.T. 0.04 min
Lab File: VN053655.D
Acq: 7 Feb 2019 15:00

Tgt Ion: 43 Resp: 9536
Ion Ratio Lower Upper
43 100
58 0.0 32.8 49.2#





#54

cis-1,3-Dichloropropene

Concen: 5.745 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053655.D

Acq: 7 Feb 2019 15:00

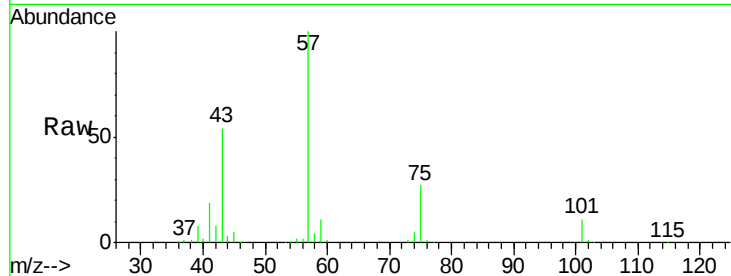
Tot Ion: 75 Resp: 73858

Ion Ratio Lower Upper

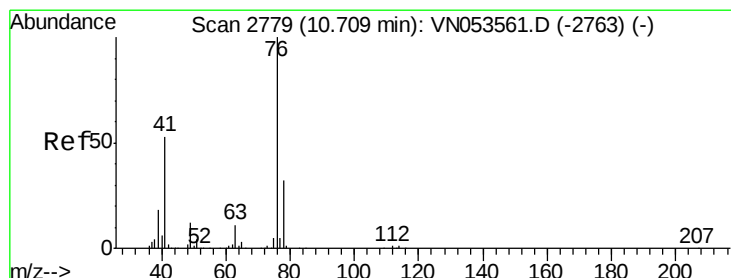
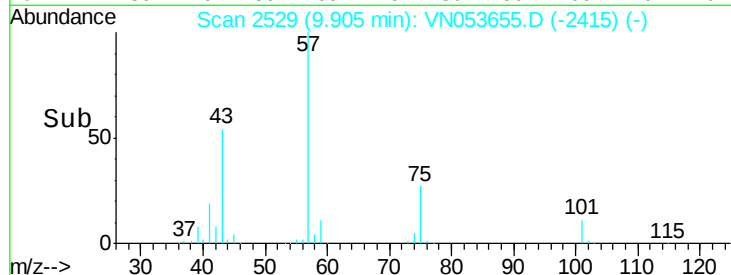
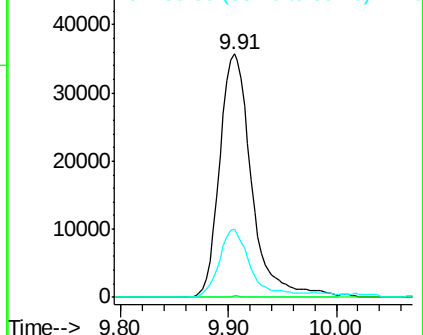
75 100

77 0.4 25.8 38.6#

39 28.1 33.4 50.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC
Ion 76.90 (76.60 to 77.60): VNC
Ion 39.00 (38.70 to 39.70): VNC



#57

1,3-Dichloropropane

Concen: 1.223 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN053655.D

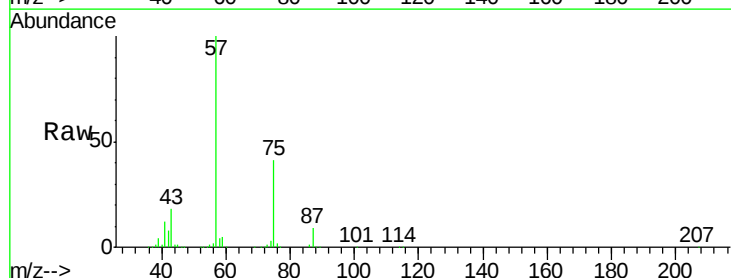
Acq: 7 Feb 2019 15:00

Tgt Ion: 76 Resp: 15101

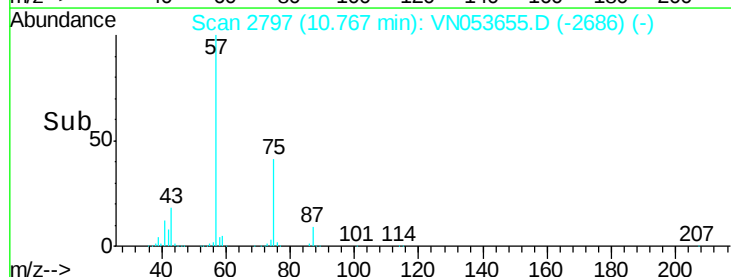
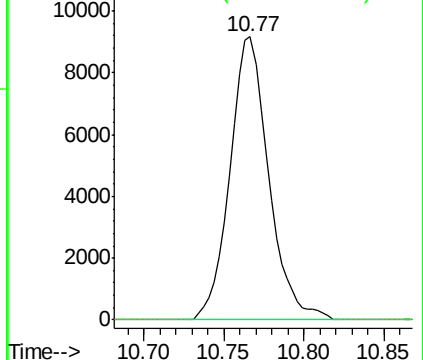
Ion Ratio Lower Upper

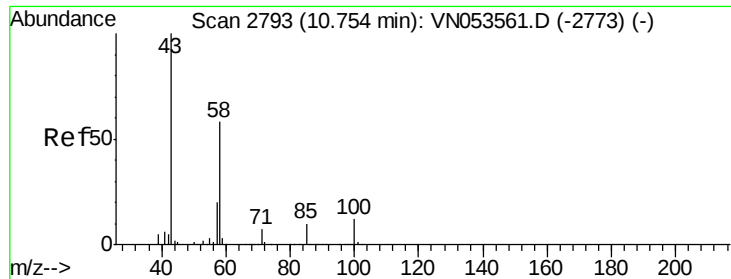
76 100

78 0.0 25.6 38.4#



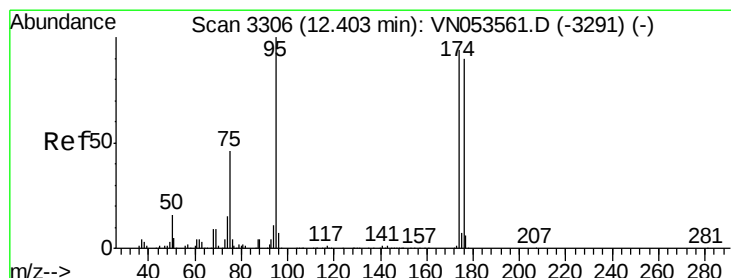
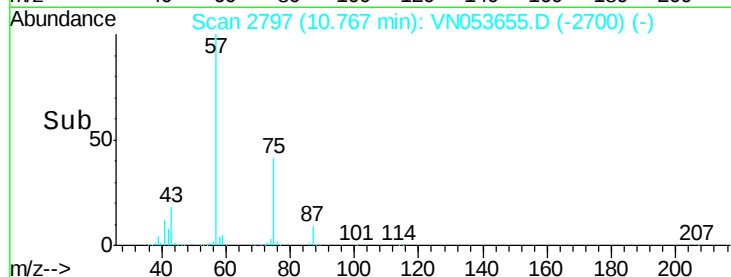
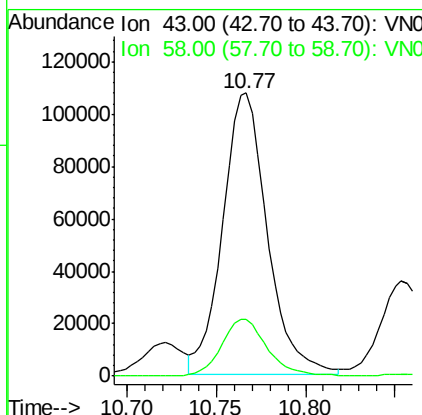
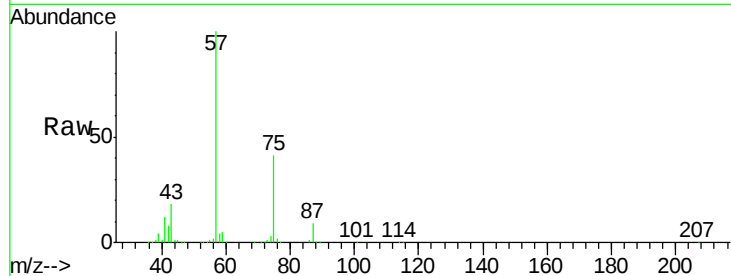
Abundance Ion 75.90 (75.60 to 76.60): VNC
Ion 77.90 (77.60 to 78.60): VNC





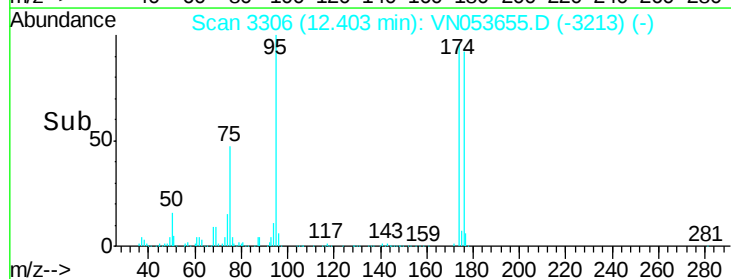
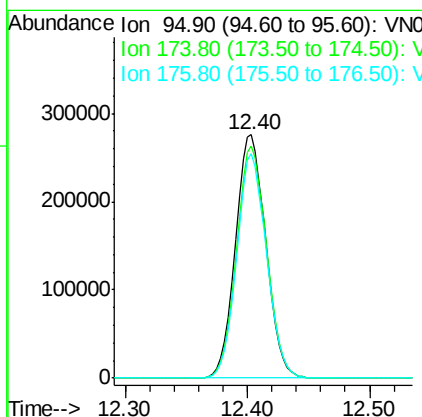
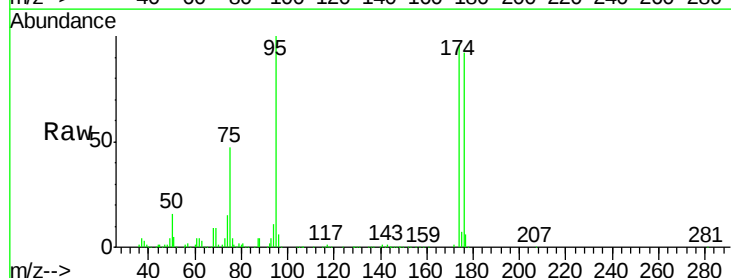
#59
2-Hexanone
Concen: 47.346 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN053655.D
Acq: 7 Feb 2019 15:00

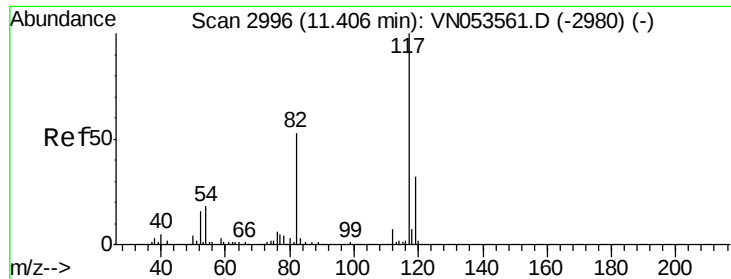
Tot Ion: 43 Resp: 186692
Ion Ratio Lower Upper
43 100
58 20.7 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053655.D
Acq: 7 Feb 2019 15:00

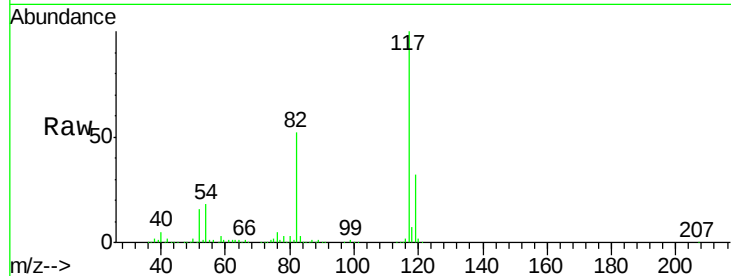
Tgt Ion: 95 Resp: 473213
Ion Ratio Lower Upper
95 100
174 95.0 0.0 183.2
176 90.3 0.0 177.4



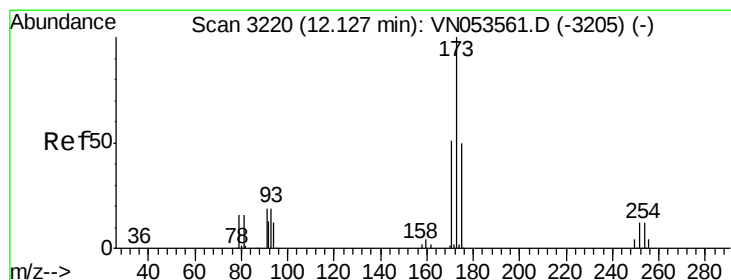
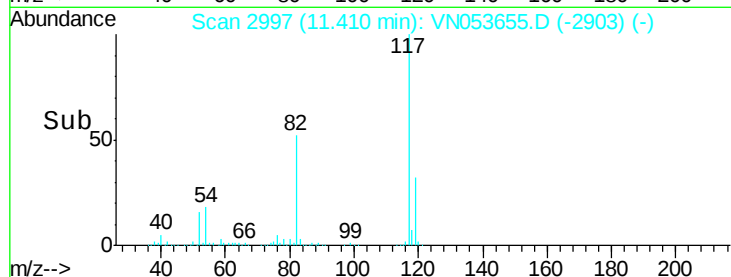
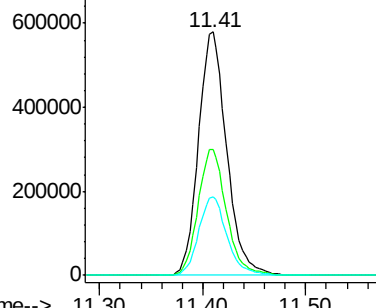


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053655.D
Acq: 7 Feb 2019 15:00

Tot Ion:117 Resp: 1102966
Ion Ratio Lower Upper
117 100
82 51.7 42.9 64.3
119 32.4 26.0 39.0

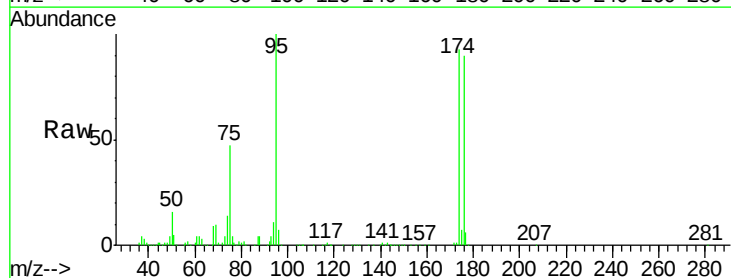


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

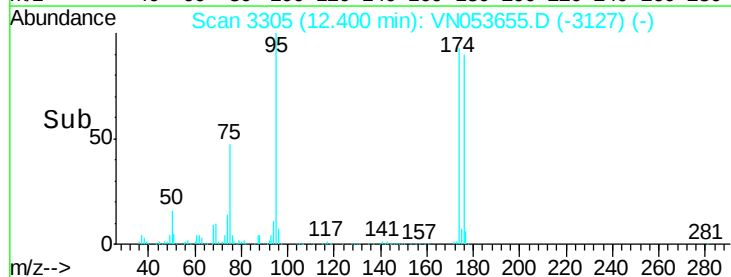
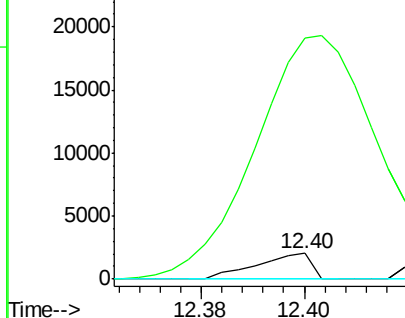


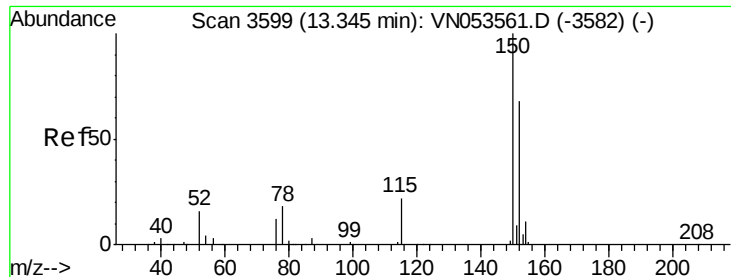
#71
Bromoform
Concen: 0.258 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053655.D
Acq: 7 Feb 2019 15:00

Tgt Ion:173 Resp: 1446
Ion Ratio Lower Upper
173 100
175 1901.0 24.6 74.0#
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

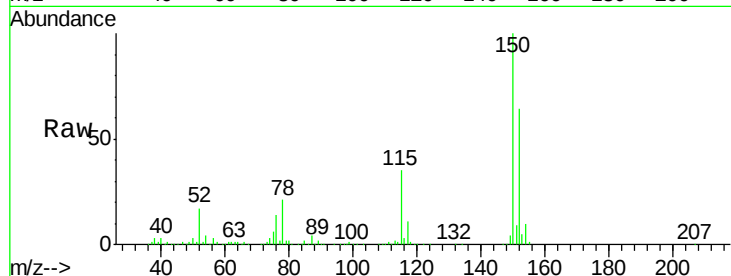




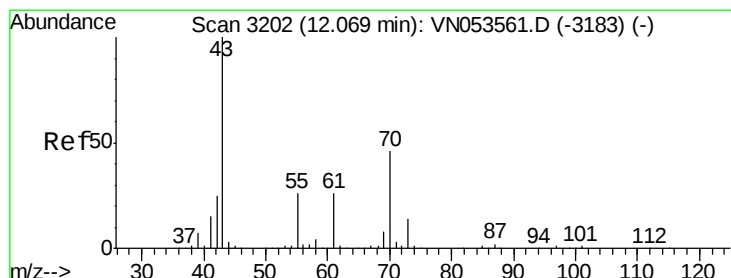
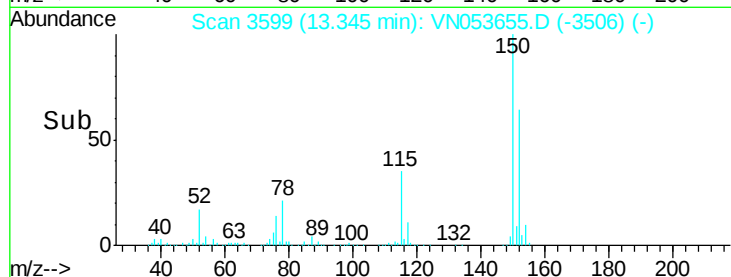
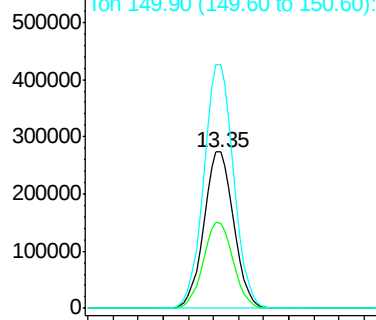
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053655.D
Acq: 7 Feb 2019 15:00

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.3	27.8	83.4
150	156.1	0.0	349.0



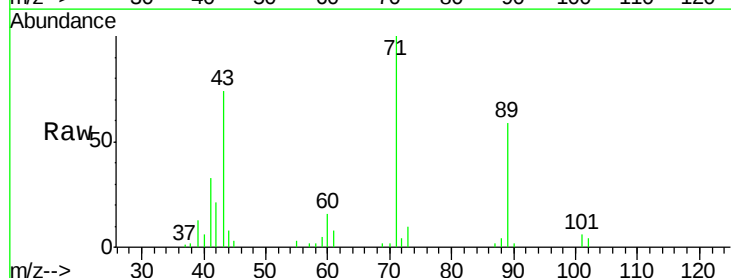
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



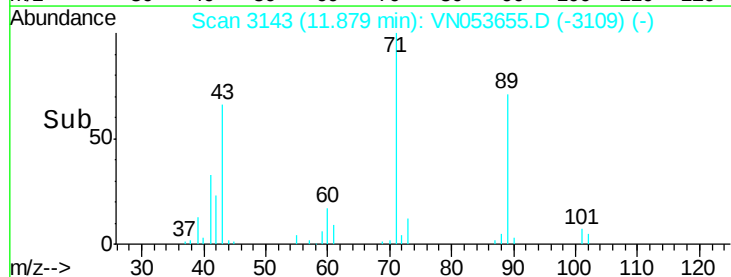
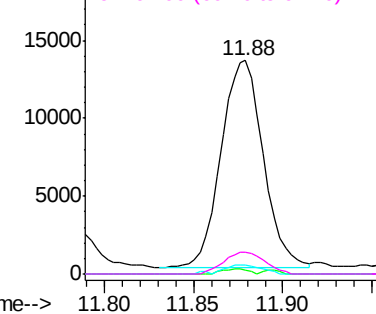
#74

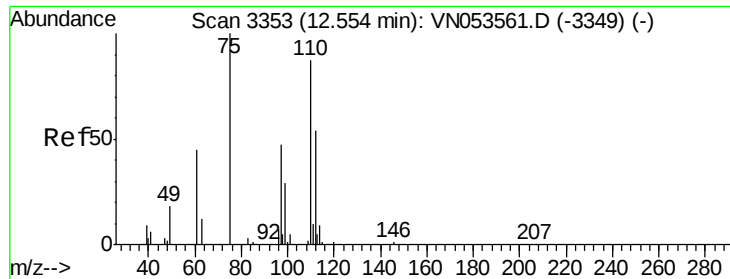
N-ethyl acetate
Concen: 2.925 ug/l
RT: 11.88 min Scan# 3143
Delta R.T. -0.19 min
Lab File: VN053655.D
Acq: 7 Feb 2019 15:00

Tgt Ion	Ratio	Lower	Upper
43	100		
70	1.6	35.4	53.2#
55	3.7	20.9	31.3#
61	10.2	20.5	30.7#



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

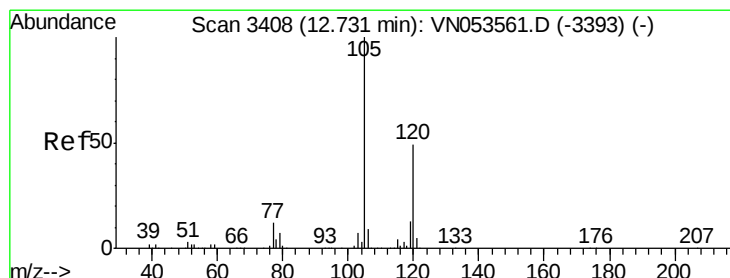
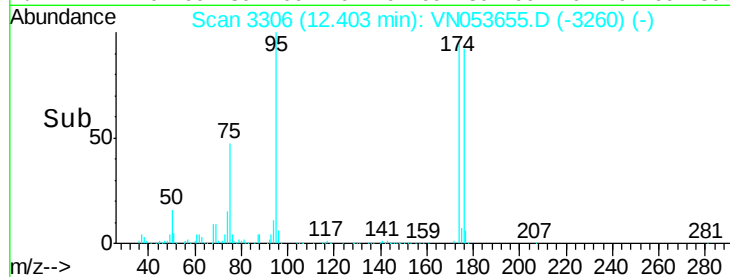
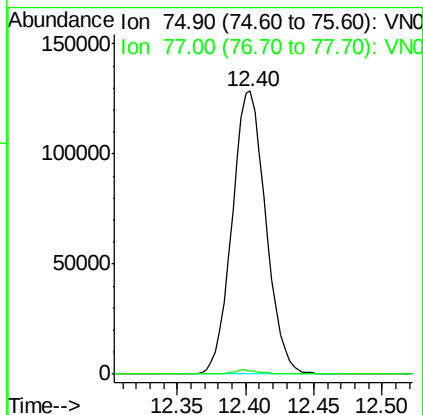
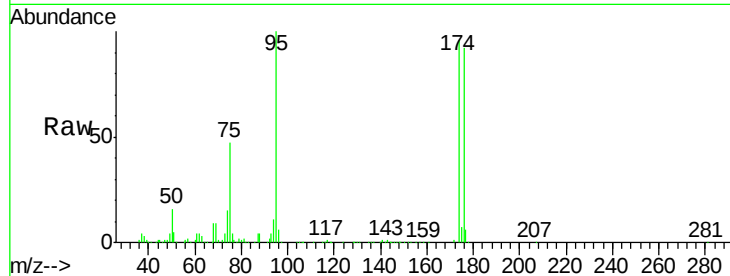




#76

1,2,3-Trichloropropane
Concen: 38.214 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN053655.D
Acq: 7 Feb 2019 15:00

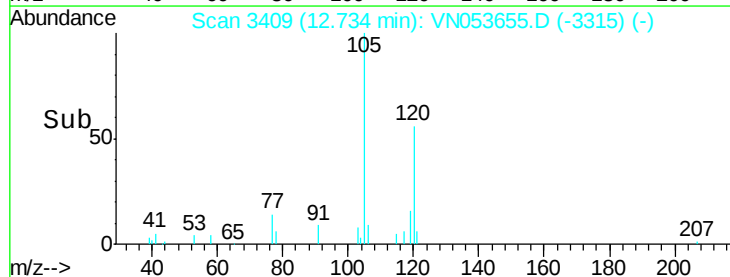
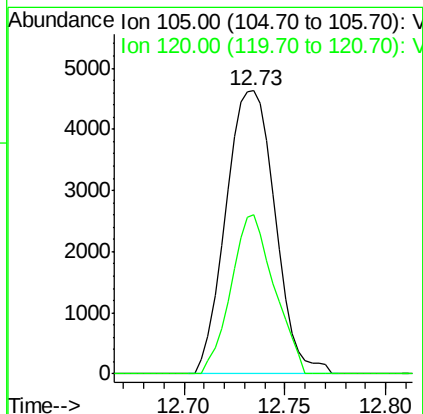
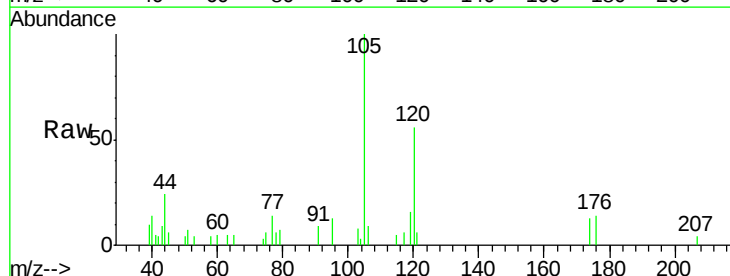
Tot Ion: 75 Resp: 220411
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#

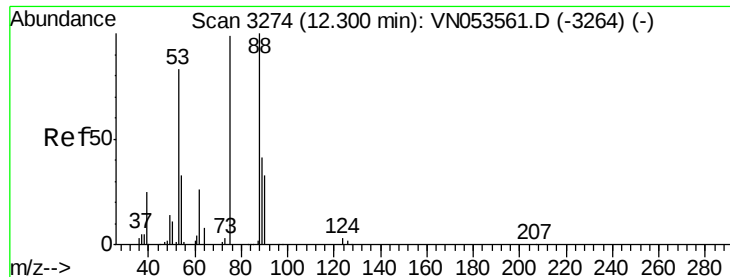


#80

1,3,5-Trimethylbenzene
Concen: 0.303 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. 0.00 min
Lab File: VN053655.D
Acq: 7 Feb 2019 15:00

Tgt Ion: 105 Resp: 7924
Ion Ratio Lower Upper
105 100
120 49.4 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 107.454 ug/l

RT: 12.40 min Scan# 3306

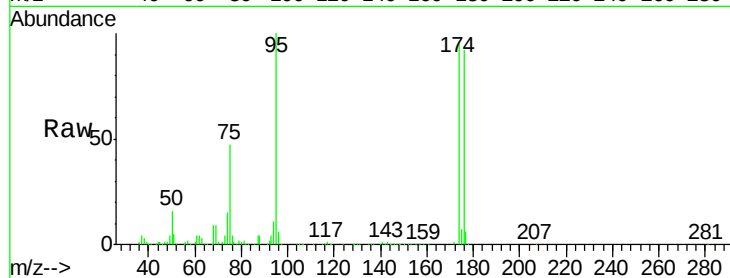
Delta R.T. 0.10 min

Lab File: VN053655.D

Acq: 7 Feb 2019 15:00

Tot Ion: 75 Resp: 220411

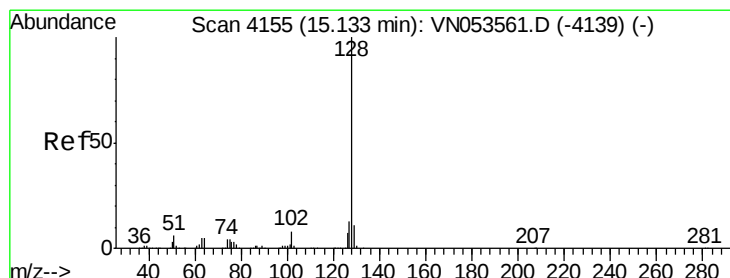
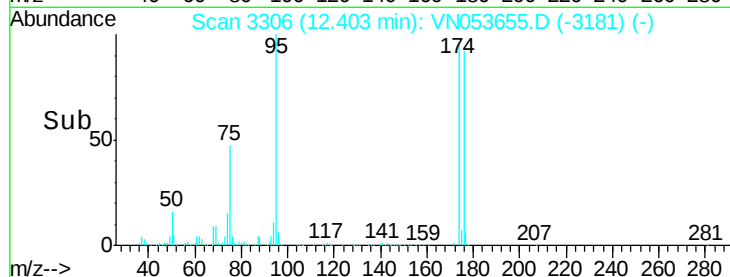
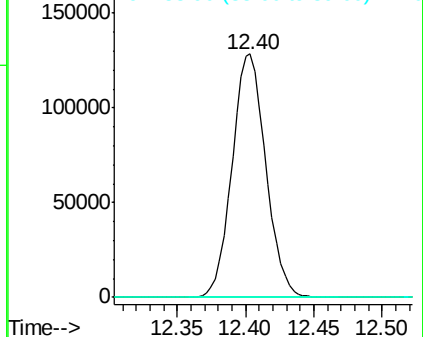
Ion	Ratio	Lower	Upper
75	100		
53	0.0	69.8	104.6#
89	0.0	35.6	53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053655.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053655.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053655.D (-3181) (-)



#95

Naphthalene

Concen: 1.738 ug/l

RT: 15.13 min Scan# 4153

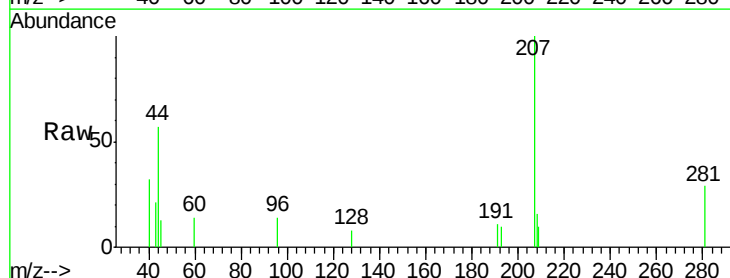
Delta R.T. -0.01 min

Lab File: VN053655.D

Acq: 7 Feb 2019 15:00

Tgt Ion: 128 Resp: 30

Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.6	13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN053655.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN053655.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN053655.D (-4061) (-)

