

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN011719\
 Data File : VN053444.D
 Acq On : 17 Jan 2019 19:33
 Operator : JC/SP
 Sample : PB116439ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 28

Quant Time: Jan 18 00:12:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 03:10:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	913710	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1432188	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1377175	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	614203	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	466938	51.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.40%	
35) Dibromofluoromethane	7.59	113	409813	50.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.28%	
50) Toluene-d8	10.09	98	1795684	51.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.90%	
62) 4-Bromofluorobenzene	12.40	95	633076	52.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.46%	

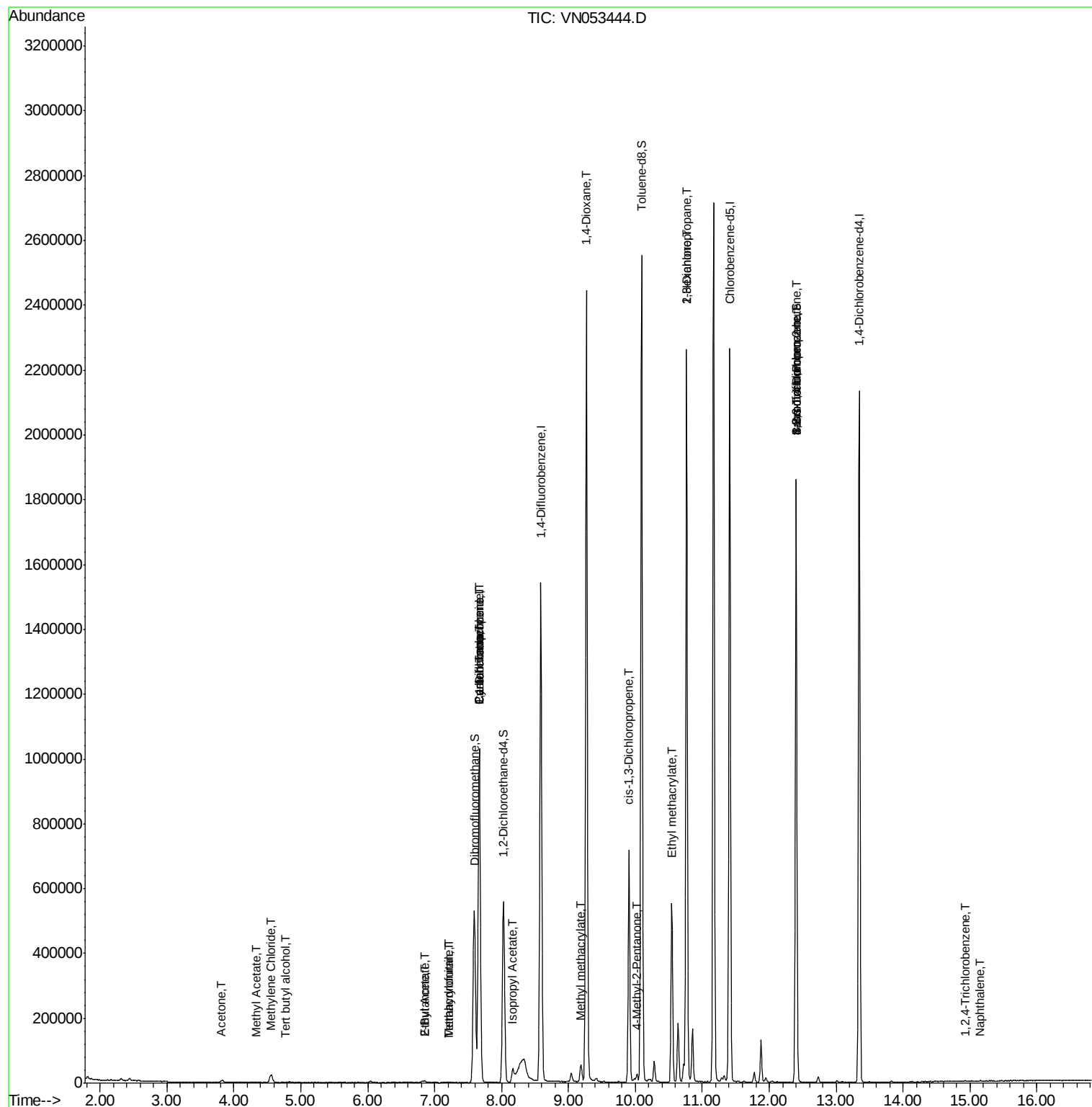
Target Compounds

					Qvalue	
11) Tert butyl alcohol	4.78	59	261	0.591	ug/l #	72
16) Acetone	3.82	43	12722	6.004	ug/l	91
18) Methyl Acetate	4.33	43	3761	0.527	ug/l	94
20) Methylene Chloride	4.56	84	19449	2.010	ug/l	98
25) 2-Butanone	6.85	43	6945	2.127	ug/l	99
29) Tetrahydrofuran	7.20	42	580	0.273	ug/l #	53
31) Cyclohexane	7.67	56	13896	0.655	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	59216	4.540	ug/l #	48
37) Ethyl Acetate	6.85	43	6945	0.925	ug/l #	67
38) Carbon Tetrachloride	7.67	117	78299	6.341	ug/l #	16
41) Methacrylonitrile	7.21	41	590	0.798	ug/l #	26
43) Isopropyl Acetate	8.17	43	53996	4.002	ug/l #	83
48) Methyl methacrylate	9.18	41	20405	2.929	ug/l #	20
49) 1,4-Dioxane	9.27	88	247	3.630	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	21148	2.871	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	132481	8.790	ug/l #	62
56) Ethyl methacrylate	10.54	69	1204	2.154	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	23856	1.626	ug/l #	43
59) 2-Hexanone	10.76	43	320656	62.013	ug/l #	50
71) Bromoform	12.40	173	4412	0.632	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	292408	36.126	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	292408	89.328	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.92	180	179	2.786	ug/l #	12
95) Naphthalene	15.14	128	495	3.969	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: VN053444.D

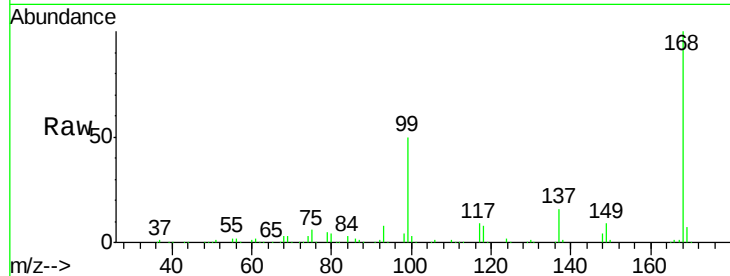
Acq: 17 Jan 2019 19:33

Tot Ion:168 Resp: 913710

Ion Ratio Lower Upper

168 100

99 49.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053399.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN053399.D (-1812) (-)

7.67

400000

300000

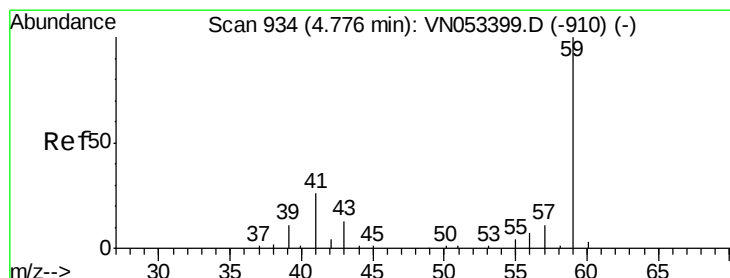
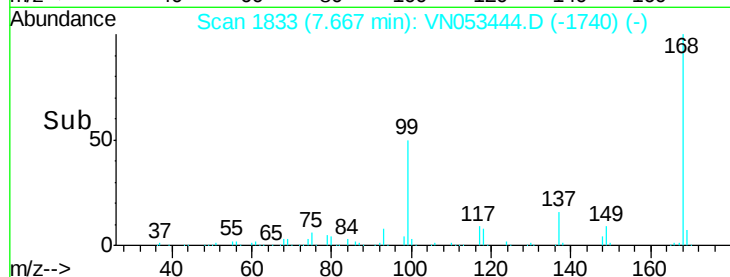
200000

100000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.591 ug/l

RT: 4.78 min Scan# 934

Delta R.T. 0.00 min

Lab File: VN053444.D

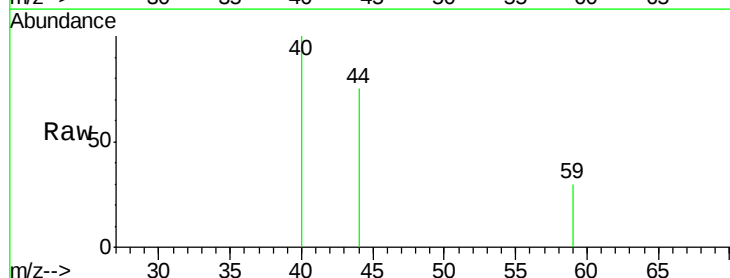
Acq: 17 Jan 2019 19:33

Tgt Ion: 59 Resp: 261

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN053399.D (-910) (-)

Ion 57.00 (56.70 to 57.70): VN053399.D (-910) (-)

4.78

300

250

200

150

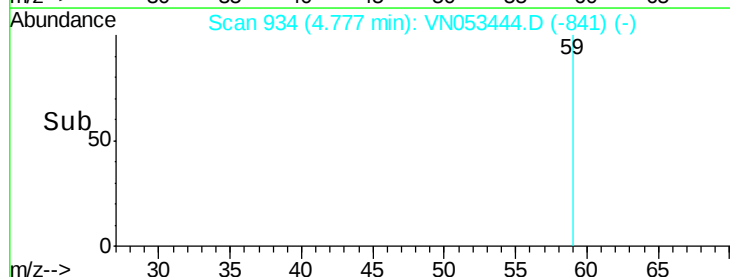
100

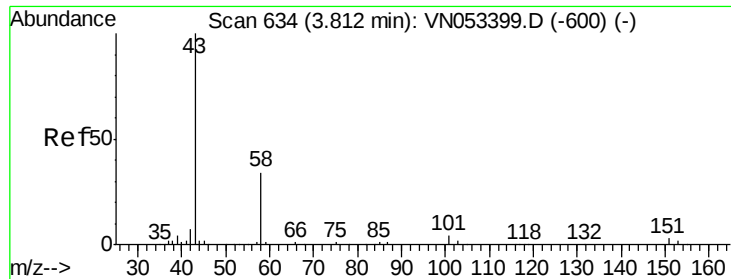
50

0

4.76 4.77 4.78 4.79 4.80

Time-->





#16

Acetone

Concen: 6.004 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053444.D

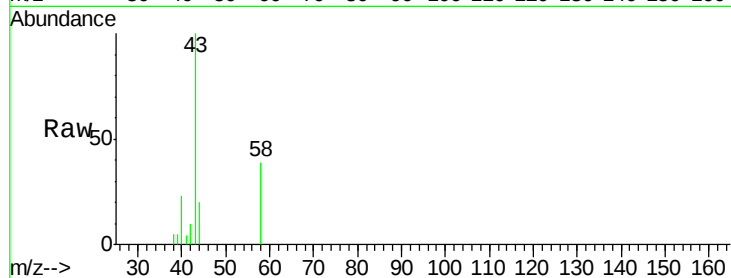
Acq: 17 Jan 2019 19:33

Tot Ion: 43 Resp: 12722

Ion Ratio Lower Upper

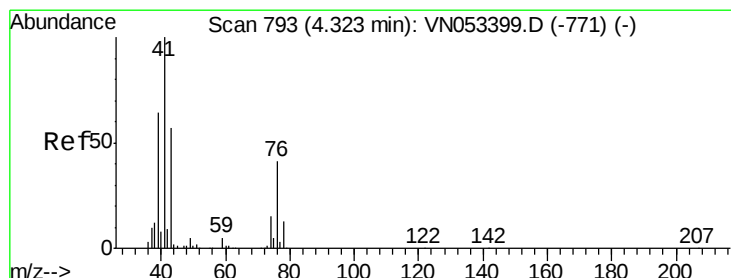
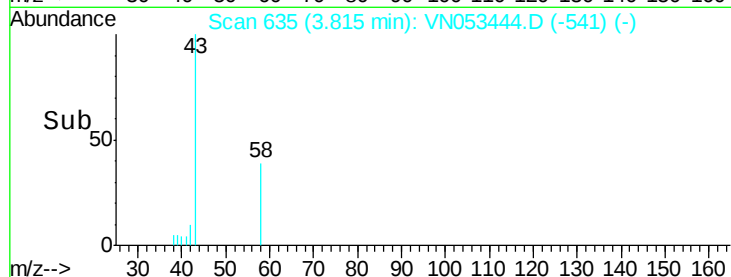
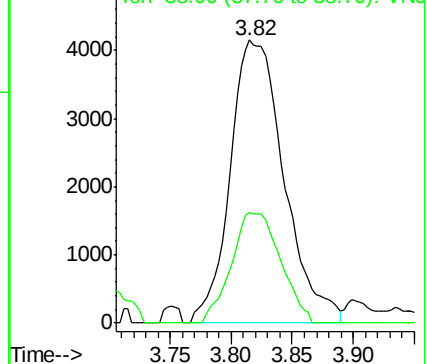
43 100

58 38.9 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.527 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN053444.D

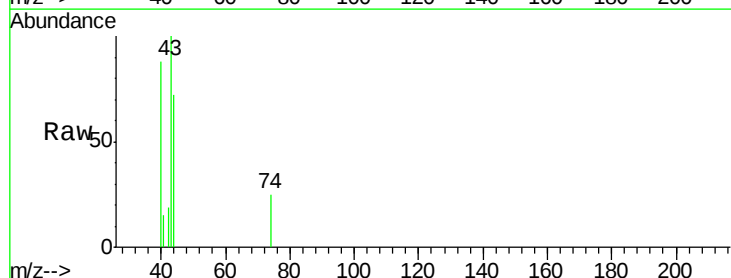
Acq: 17 Jan 2019 19:33

Tgt Ion: 43 Resp: 3761

Ion Ratio Lower Upper

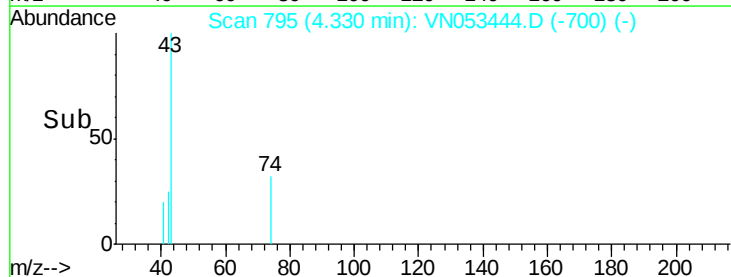
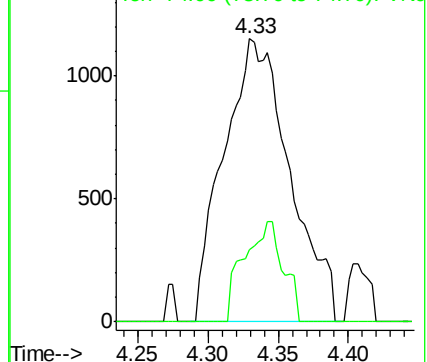
43 100

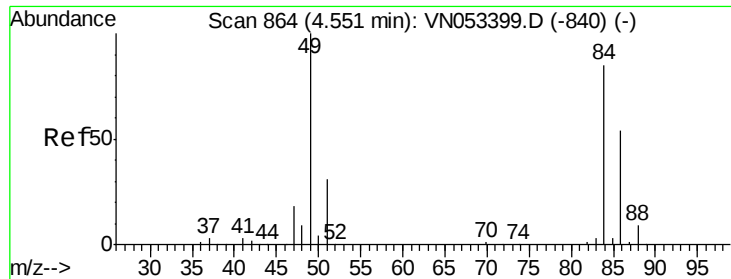
74 21.1 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

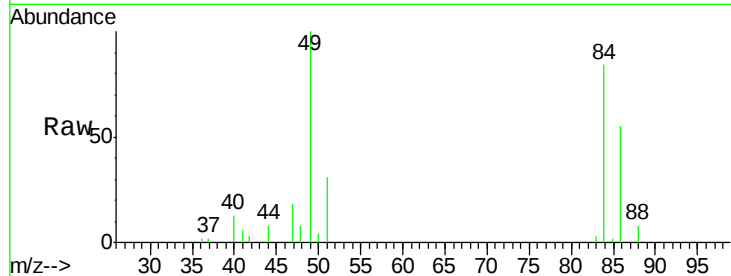




#20
Methvlene Chloride
Concen: 2.010 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053444.D
Acq: 17 Jan 2019 19:33

Tot Ion: 84 Resp: 19449

Ion	Ratio	Lower	Upper
84	100		
49	119.7	94.3	141.5
51	37.1	29.4	44.2
86	66.0	51.4	77.0



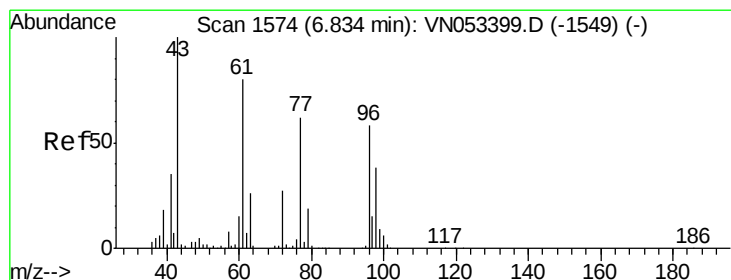
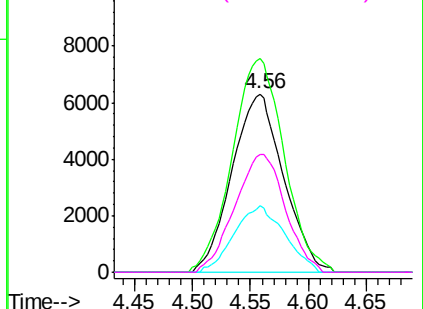
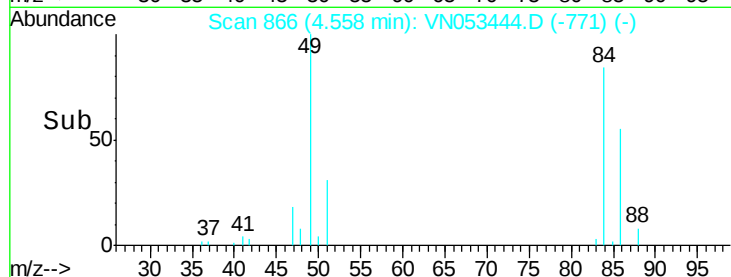
Abundance

Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

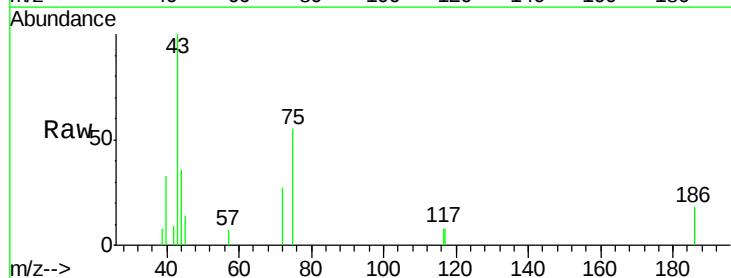
Ion 85.90 (85.60 to 86.60): VNC



#25
2-Butanone
Concen: 2.127 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN053444.D
Acq: 17 Jan 2019 19:33

Tgt Ion: 43 Resp: 6945

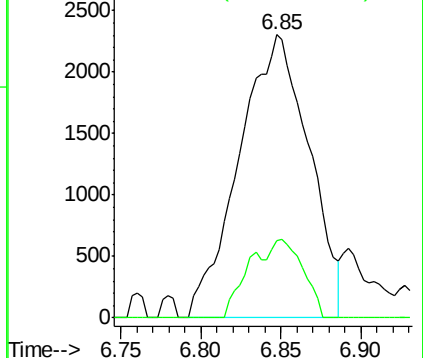
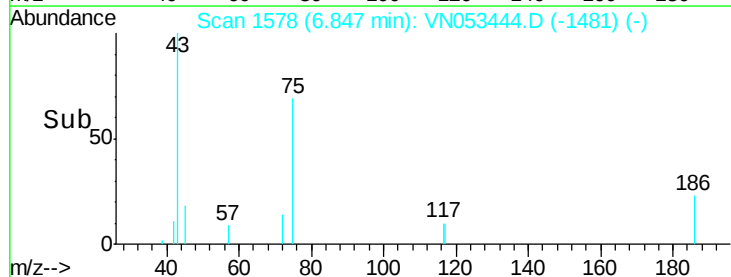
Ion	Ratio	Lower	Upper
43	100		
72	27.2	22.0	33.0

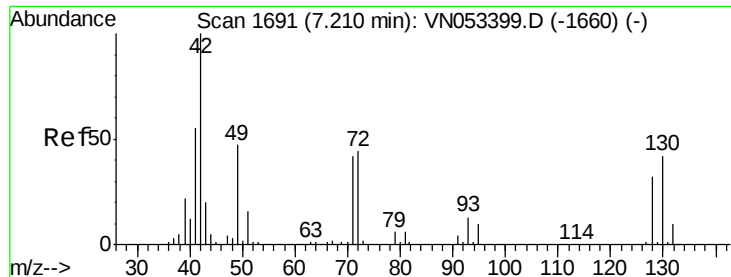


Abundance

Ion 43.00 (42.70 to 43.70): VNC

Ion 72.00 (71.70 to 72.70): VNC





#29

Tetrahydrofuran

Concen: 0.273 ug/l

RT: 7.20 min Scan# 1688

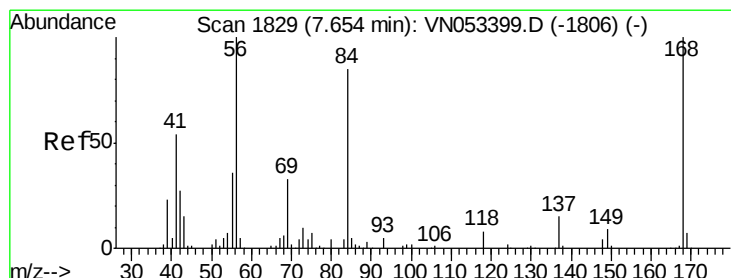
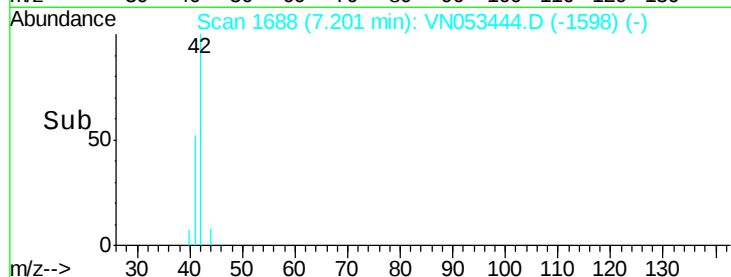
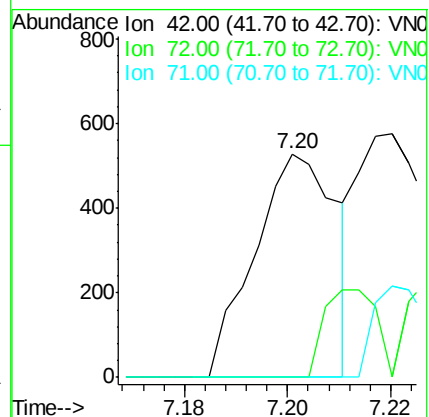
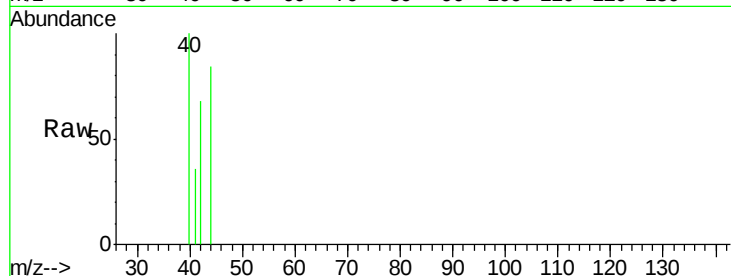
Delta R.T. -0.01 min

Lab File: VN053444.D

Acq: 17 Jan 2019 19:33

Tot Ion: 42 Resp: 580

Ion	Ratio	Lower	Upper
42	100		
72	25.0	35.2	52.8#
71	0.0	33.0	49.4#



#31

Cyclohexane

Concen: 0.655 ug/l

RT: 7.67 min Scan# 1833

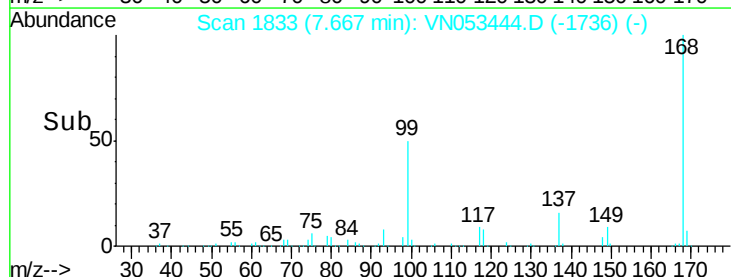
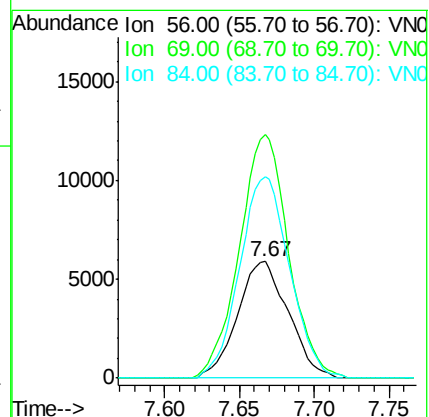
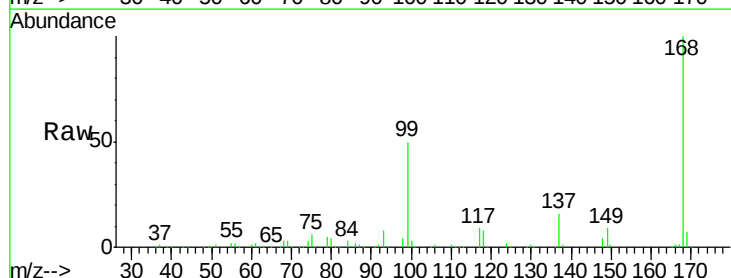
Delta R.T. 0.01 min

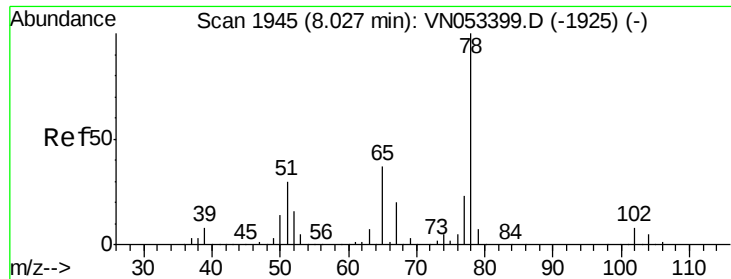
Lab File: VN053444.D

Acq: 17 Jan 2019 19:33

Tgt Ion: 56 Resp: 13896

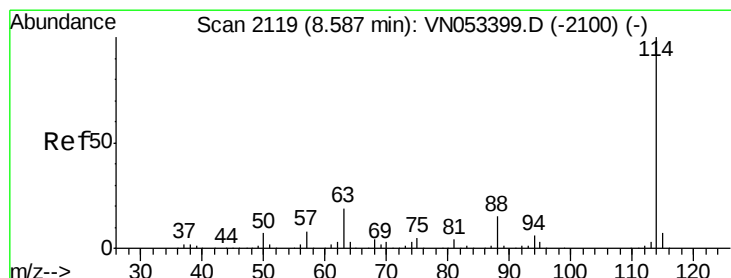
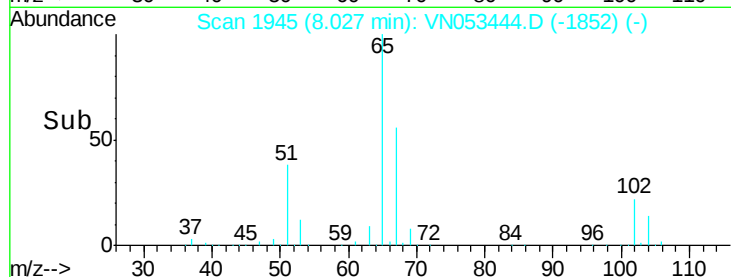
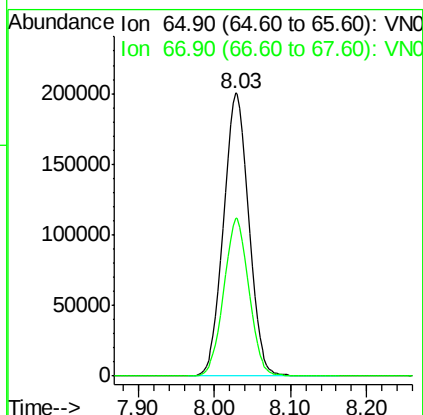
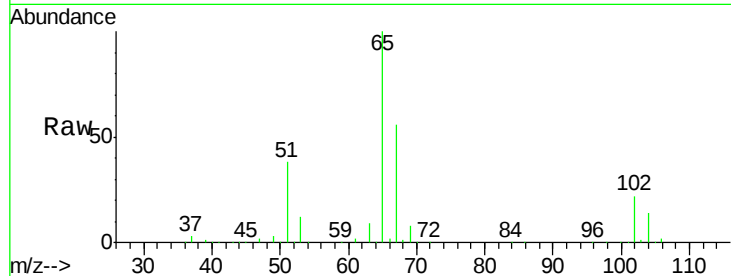
Ion	Ratio	Lower	Upper
56	100		
69	208.7	26.4	39.6#
84	172.6	67.9	101.9#





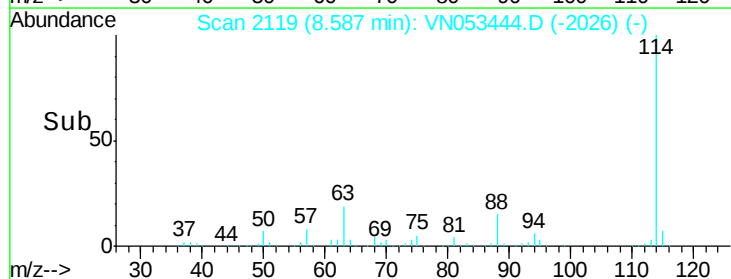
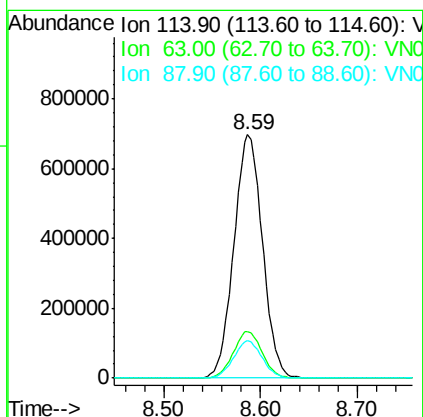
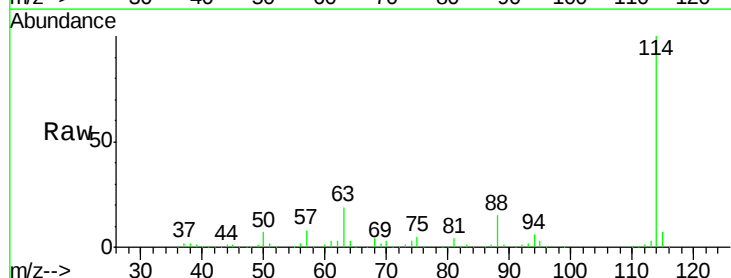
#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053444.D
 Acq: 17 Jan 2019 19:33

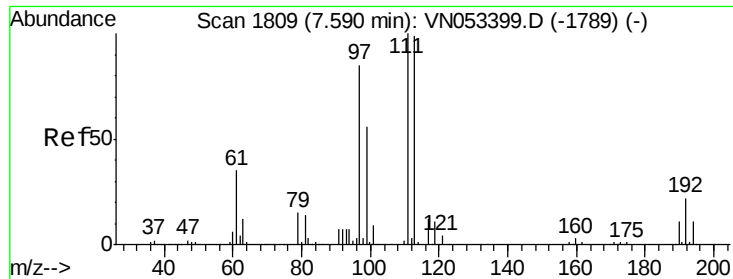
Tot Ion: 65 Resp: 466938
 Ion Ratio Lower Upper
 65 100
 67 55.1 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053444.D
 Acq: 17 Jan 2019 19:33

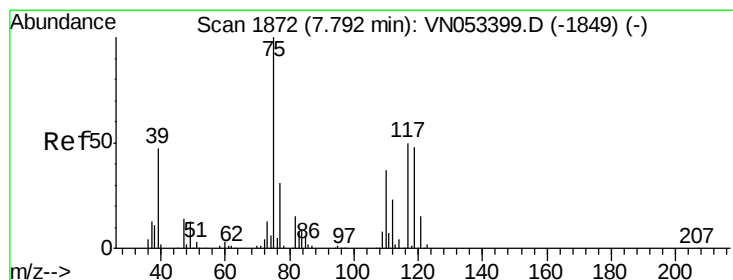
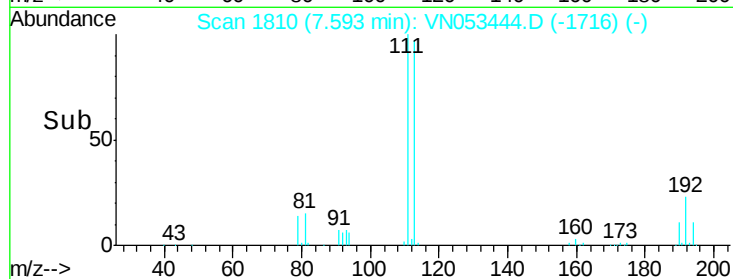
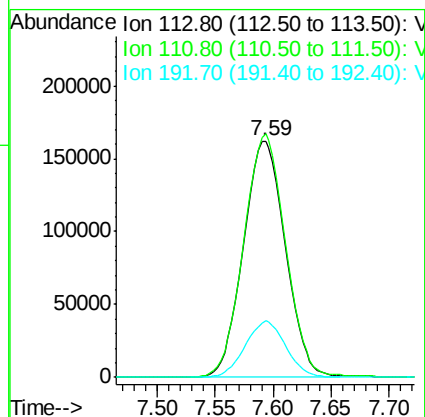
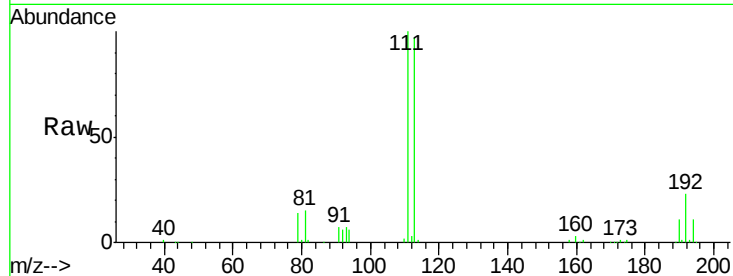
Tgt Ion: 114 Resp: 1432188
 Ion Ratio Lower Upper
 114 100
 63 19.3 0.0 38.6
 88 15.2 0.0 30.4





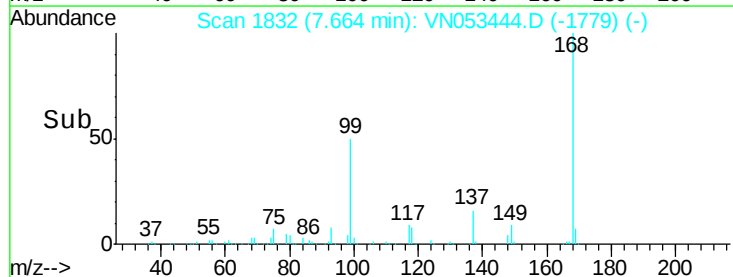
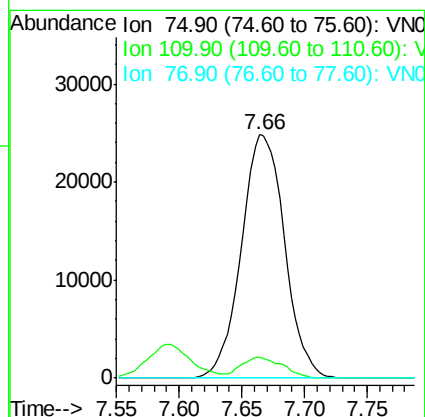
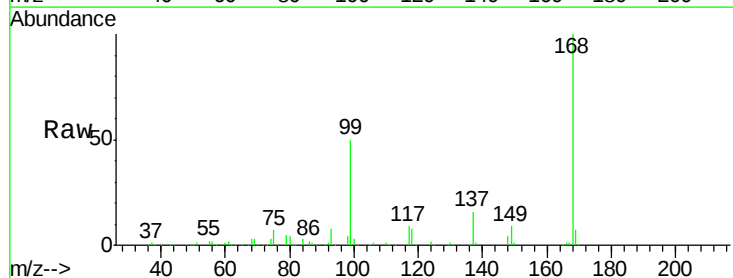
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053444.D
 Acq: 17 Jan 2019 19:33

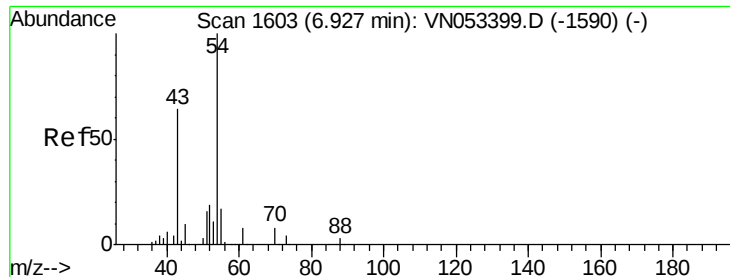
Tot Ion:113 Resp: 409813
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.1 121.7
 192 23.0 18.2 27.2



#36
 1,1-Dichloropropene
 Concen: 4.540 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053444.D
 Acq: 17 Jan 2019 19:33

Tgt Ion: 75 Resp: 59216
 Ion Ratio Lower Upper
 75 100
 110 8.3 18.1 54.3#
 77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 0.925 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. -0.08 min

Lab File: VN053444.D

Acq: 17 Jan 2019 19:33

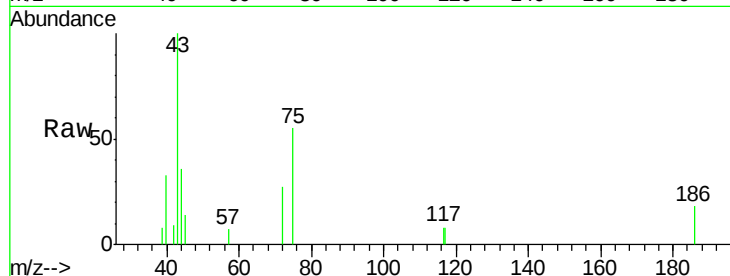
Tot Ion: 43 Resp: 6945

Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.6#

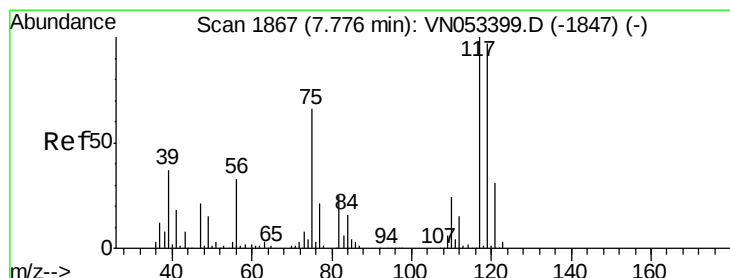
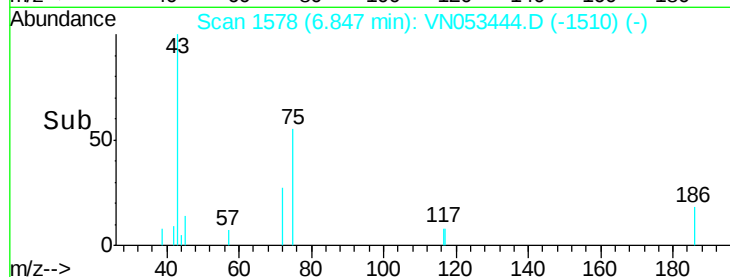
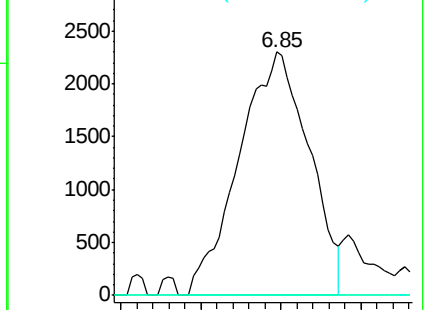
70 0.0 8.6 12.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0



#38

Carbon Tetrachloride

Concen: 6.341 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053444.D

Acq: 17 Jan 2019 19:33

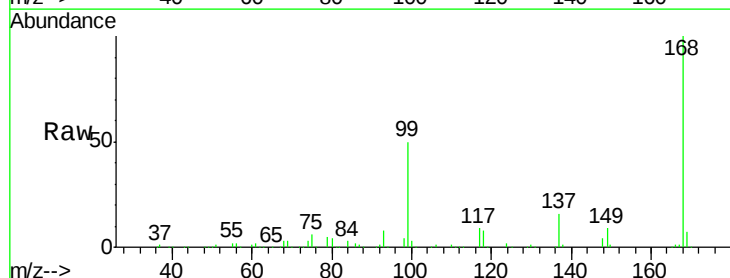
Tgt Ion: 117 Resp: 78299

Ion Ratio Lower Upper

117 100

119 5.3 77.2 115.8#

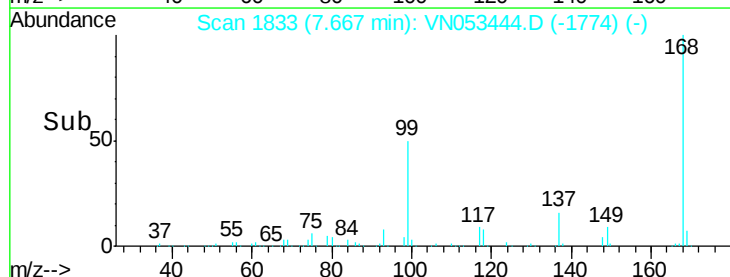
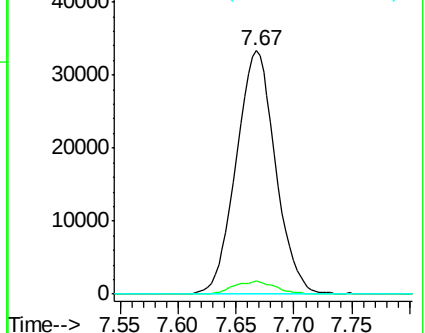
121 0.0 24.6 37.0#

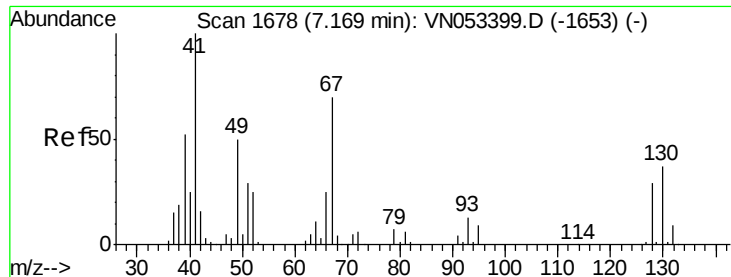


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 0.798 ug/l

RT: 7.21 min Scan# 1690

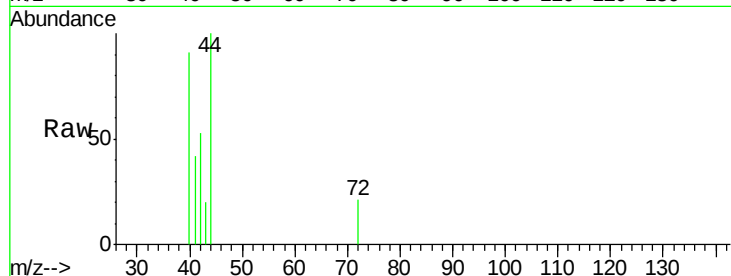
Delta R.T. 0.04 min

Lab File: VN053444.D

Acq: 17 Jan 2019 19:33

Tot Ion: 41 Resp: 590

Ion	Ratio	Lower	Upper
41	100		
39	11.4	46.8	70.2#
67	0.0	63.0	94.6#
52	0.0	23.8	35.8#

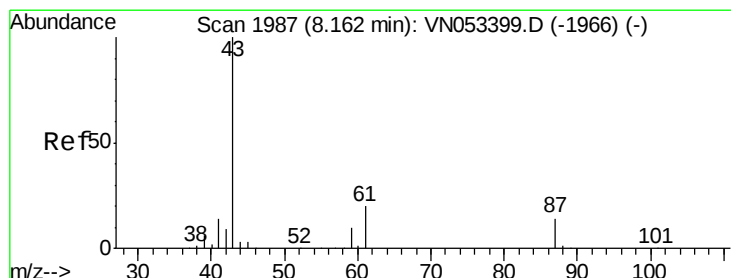
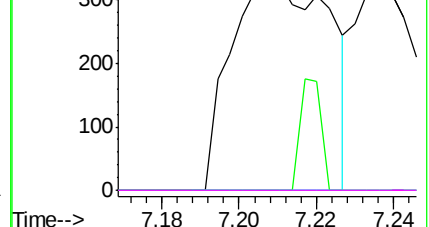
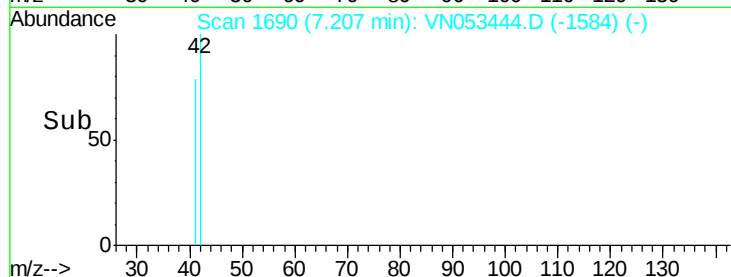


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO



#43

Isopropyl Acetate

Concen: 4.002 ug/l

RT: 8.17 min Scan# 1989

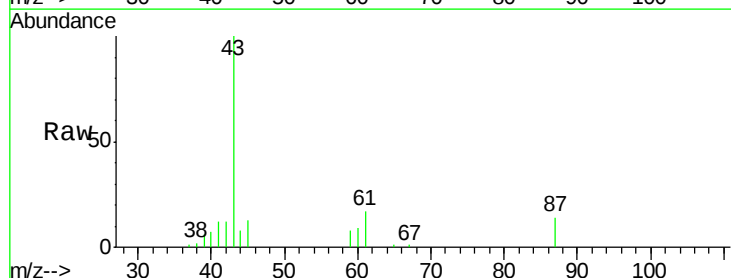
Delta R.T. 0.01 min

Lab File: VN053444.D

Acq: 17 Jan 2019 19:33

Tgt Ion: 43 Resp: 53996

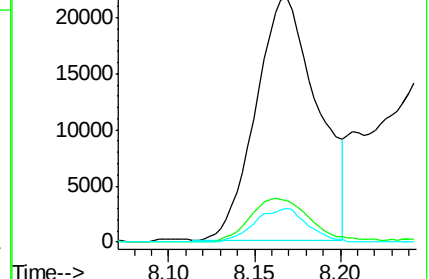
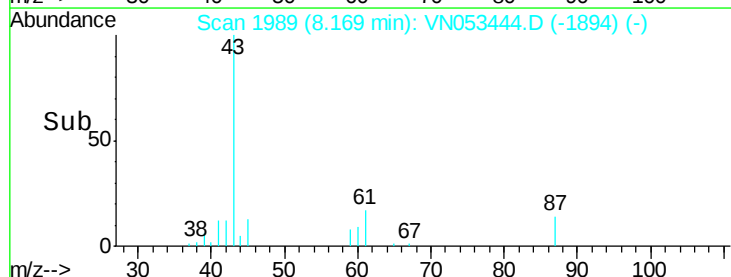
Ion	Ratio	Lower	Upper
43	100		
61	17.6	23.9	35.9#
87	11.7	11.0	16.6

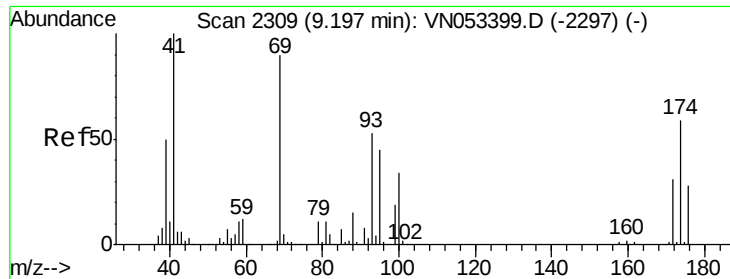


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#48

Methyl methacrylate

Concen: 2.929 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN053444.D

Acq: 17 Jan 2019 19:33

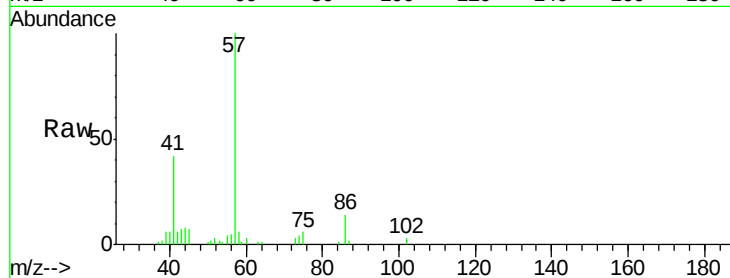
Tot Ion: 41 Resp: 20405

Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

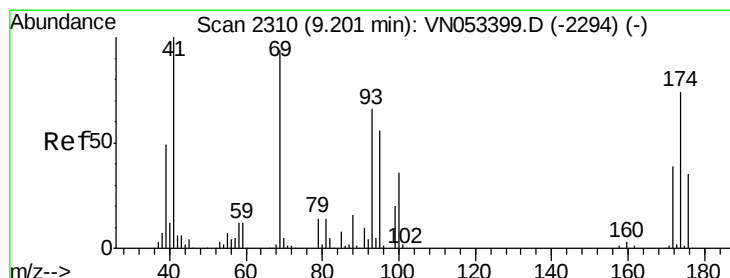
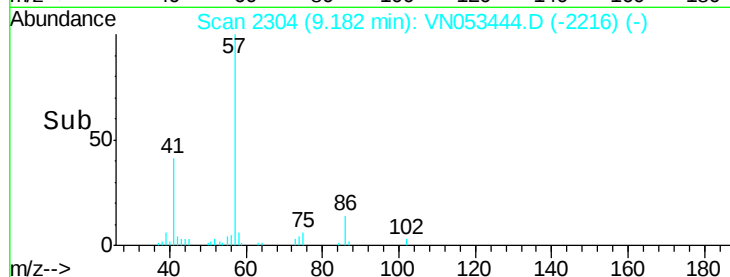
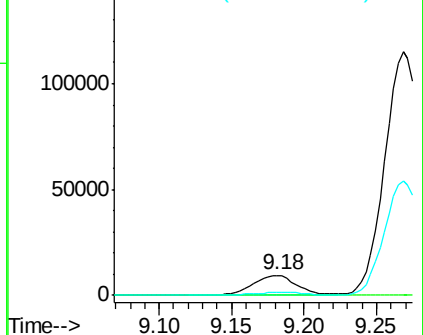
39 16.6 40.0 60.0#



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: 3.630 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.06 min

Lab File: VN053444.D

Acq: 17 Jan 2019 19:33

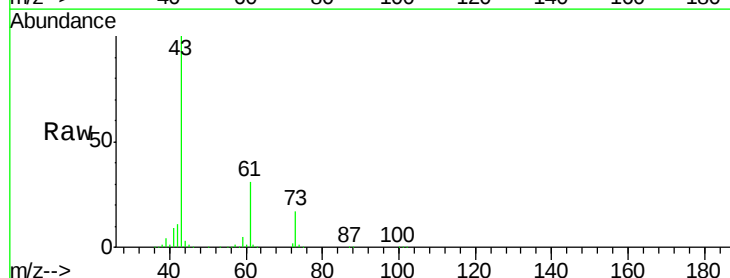
Tgt Ion: 88 Resp: 247

Ion Ratio Lower Upper

88 100

43 951296.4 27.8 41.6#

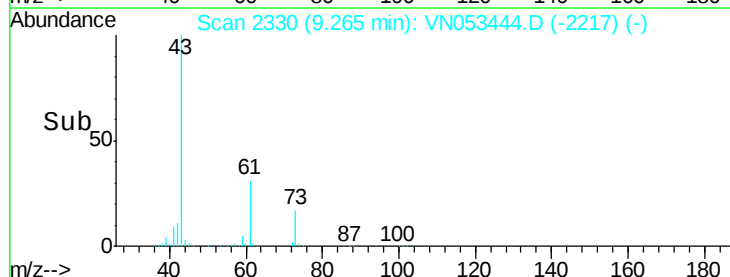
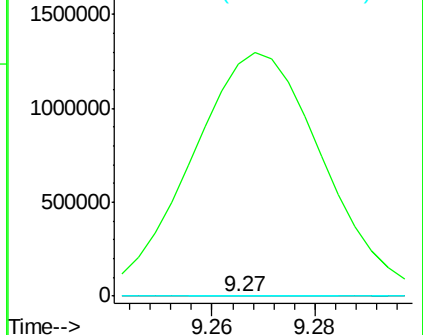
58 4347.8 56.5 84.7#

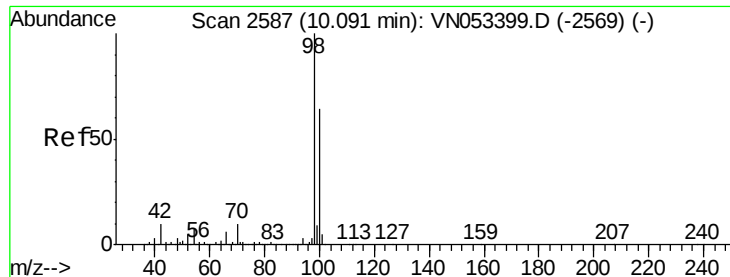


Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#50

Toluene-d8

Concen: 3.630 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053444.D

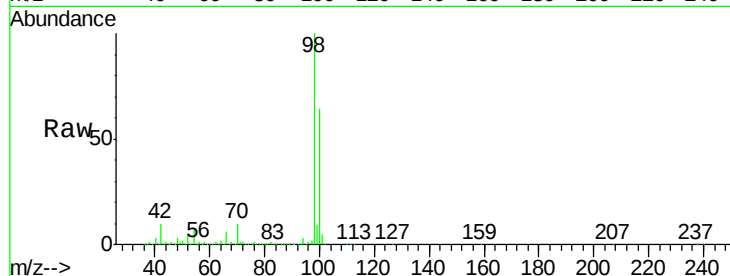
Acq: 17 Jan 2019 19:33

Tot Ion: 98 Resp: 1795684

Ion Ratio Lower Upper

98 100

100 64.3 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053399.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN053399.D (-2569) (-)

10.09

1200000

1000000

800000

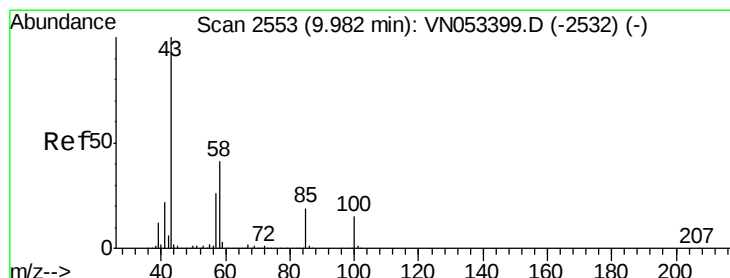
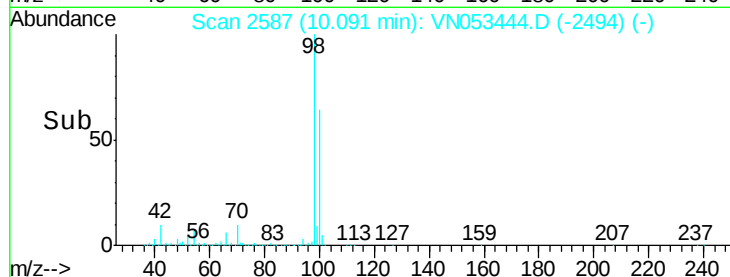
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.871 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053444.D

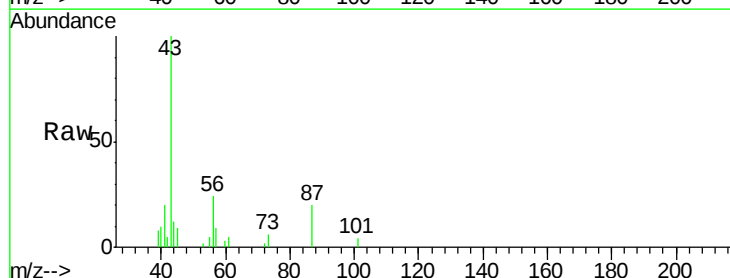
Acq: 17 Jan 2019 19:33

Tgt Ion: 43 Resp: 21148

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN053399.D (-2532) (-)

Ion 58.00 (57.70 to 58.70): VN053399.D (-2532) (-)

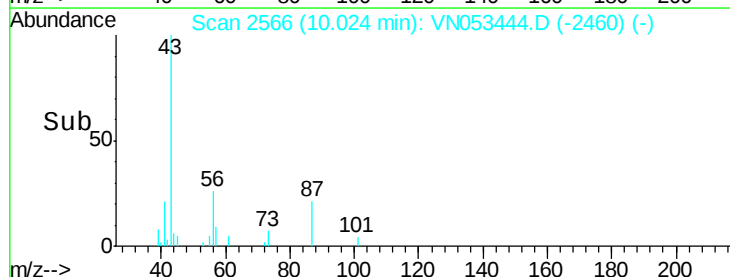
10.02

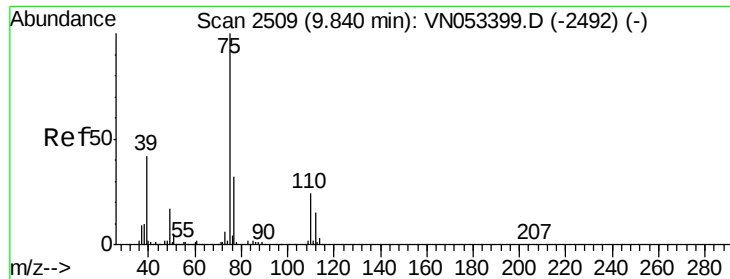
10000

5000

0

Time-->

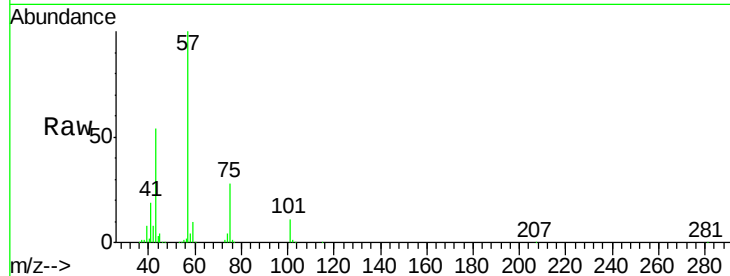




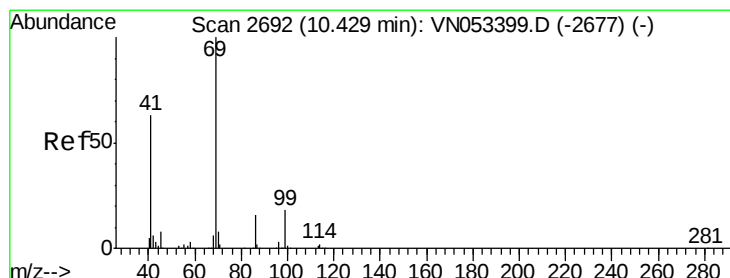
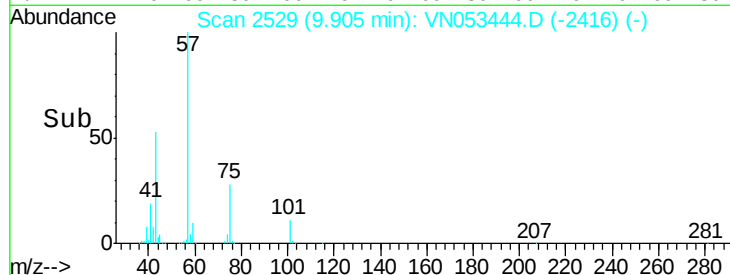
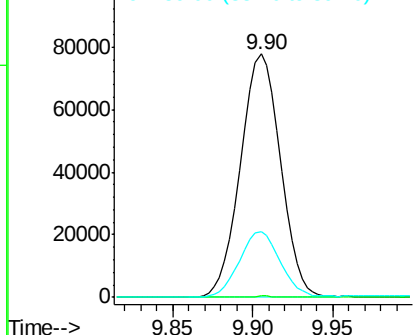
#54

cis-1,3-Dichloropropene
 Concen: 8.790 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN053444.D
 Acq: 17 Jan 2019 19:33

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.4	25.8	38.6#
39	27.1	33.4	50.0#



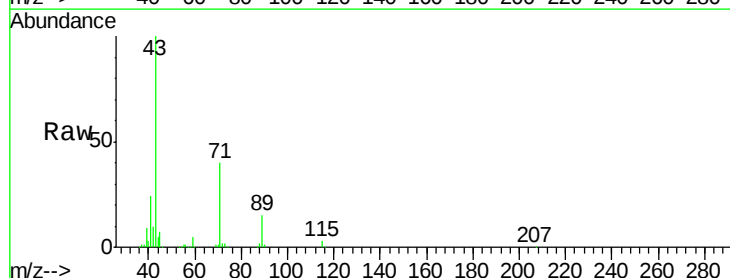
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



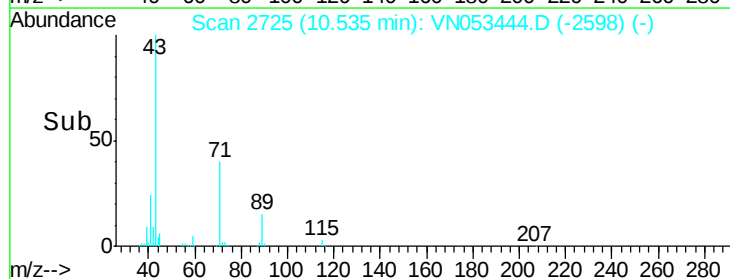
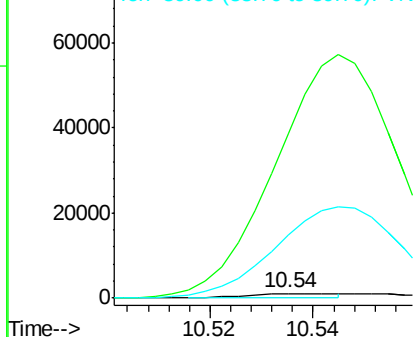
#56

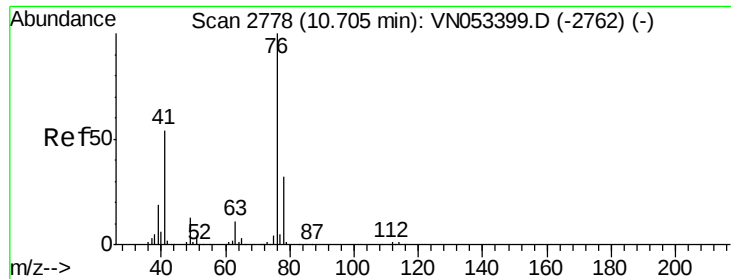
Ethyl methacrylate
 Concen: 2.154 ug/l
 RT: 10.54 min Scan# 2725
 Delta R.T. 0.11 min
 Lab File: VN053444.D
 Acq: 17 Jan 2019 19:33

Tgt Ion	Ratio	Lower	Upper
69	100		
41	8011.7	49.4	74.0#
39	3093.0	23.3	34.9#



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





#57

1,3-Dichloropropane

Concen: 1.626 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053444.D

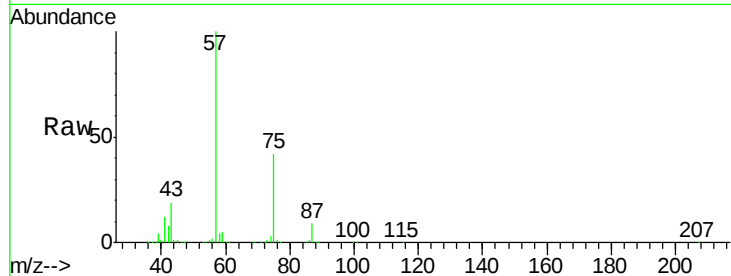
Acq: 17 Jan 2019 19:33

Tot Ion: 76 Resp: 23856

Ion Ratio Lower Upper

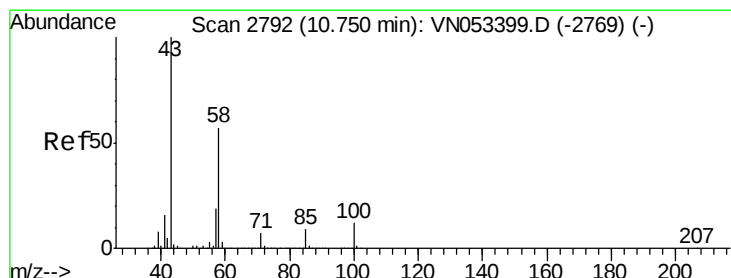
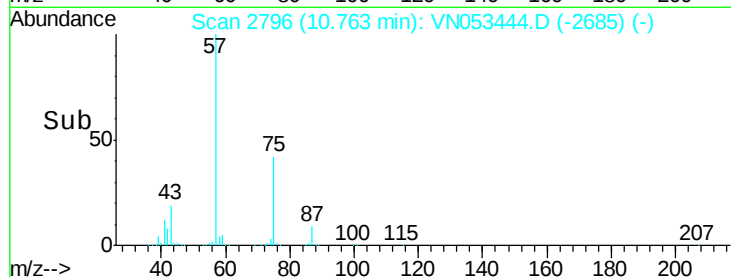
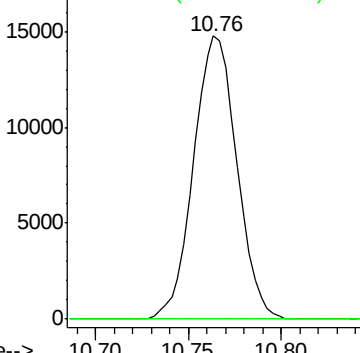
76 100

78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 62.013 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN053444.D

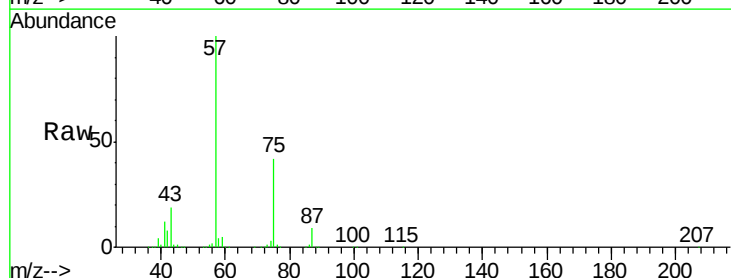
Acq: 17 Jan 2019 19:33

Tgt Ion: 43 Resp: 320656

Ion Ratio Lower Upper

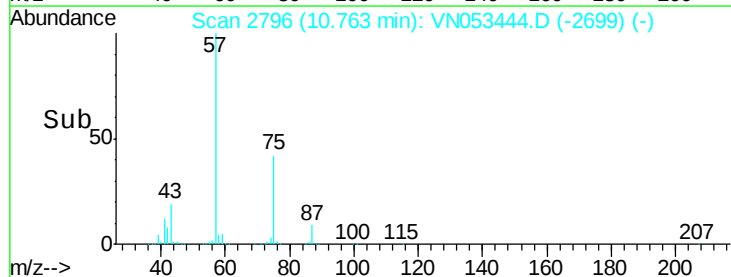
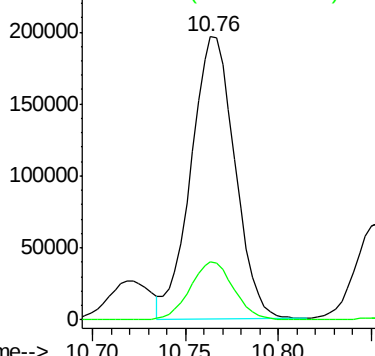
43 100

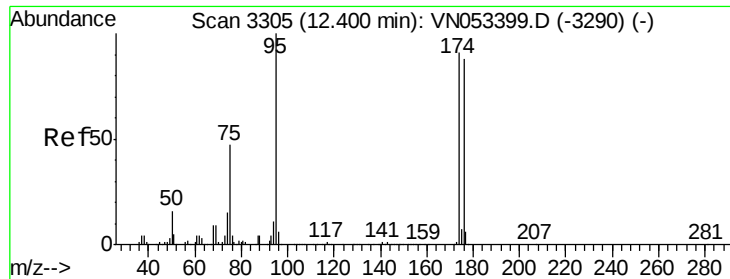
58 20.6 28.6 85.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

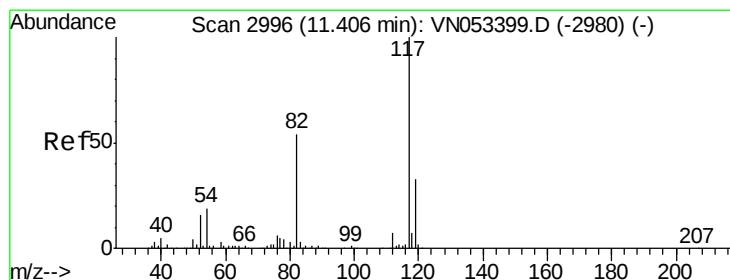
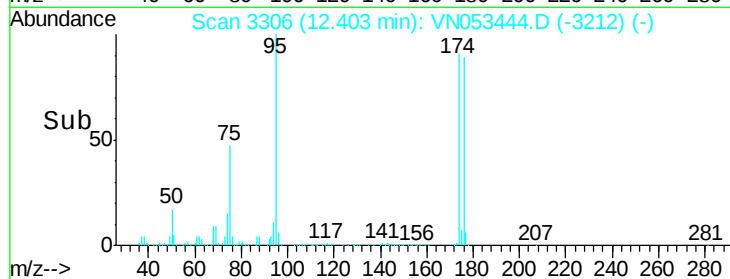
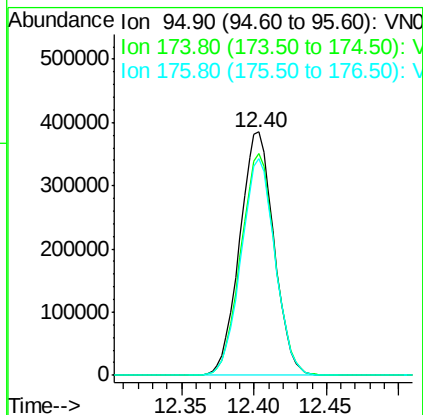
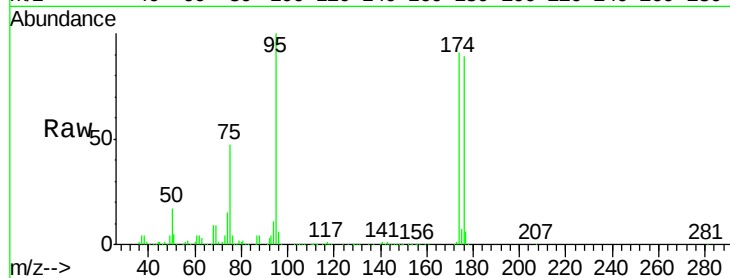
Ion 58.00 (57.70 to 58.70): VN0





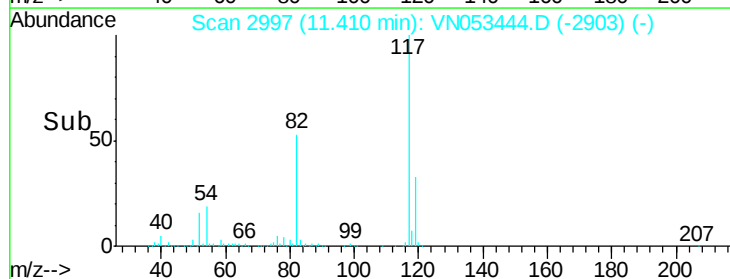
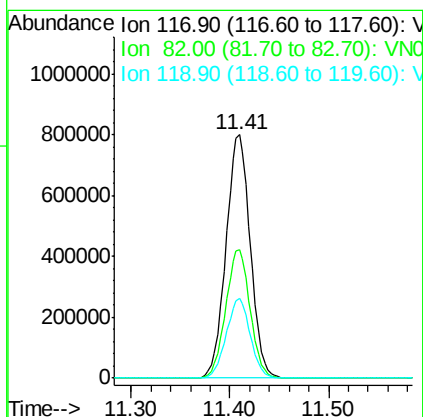
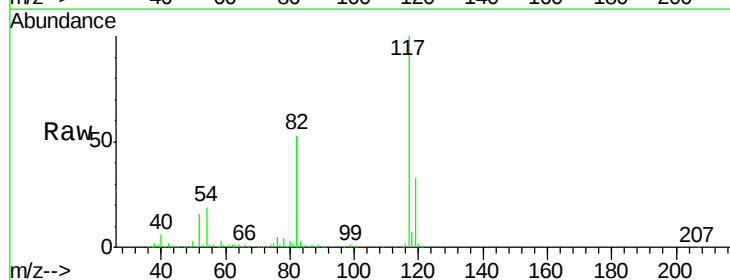
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053444.D
Acq: 17 Jan 2019 19:33

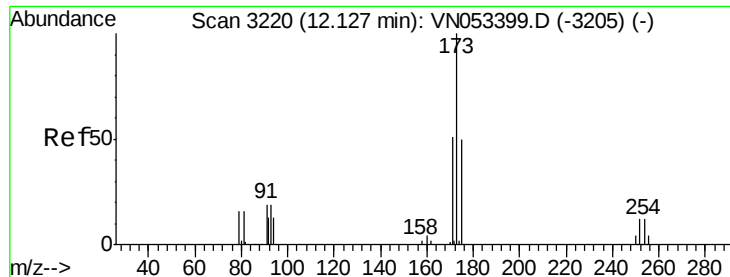
Tot Ion: 95 Resp: 633076
Ion Ratio Lower Upper
95 100
174 90.8 0.0 183.2
176 88.1 0.0 177.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053444.D
Acq: 17 Jan 2019 19:33

Tgt Ion: 117 Resp: 1377175
Ion Ratio Lower Upper
117 100
82 52.9 42.9 64.3
119 32.7 26.0 39.0





#71

Bromoform

Concen: 0.632 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053444.D

Acq: 17 Jan 2019 19:33

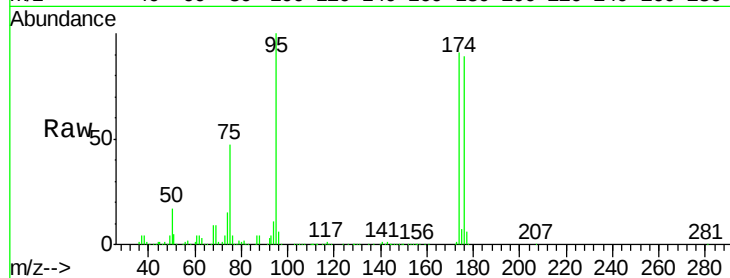
Tot Ion:173 Resp: 4412

Ion Ratio Lower Upper

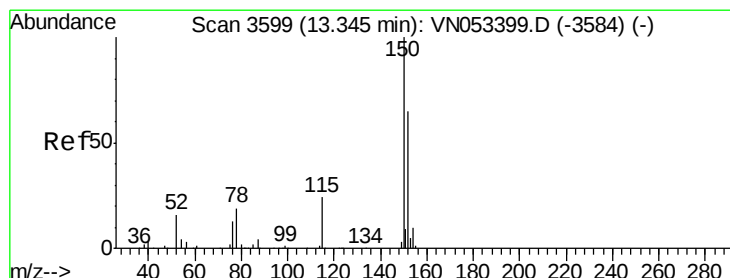
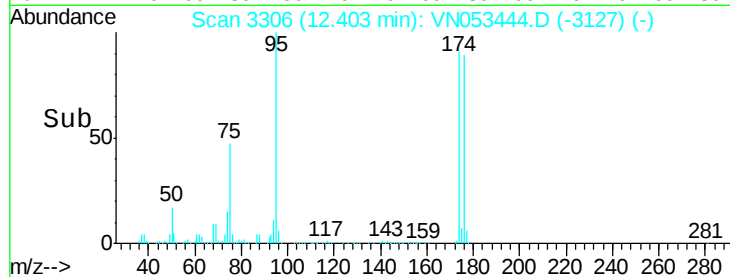
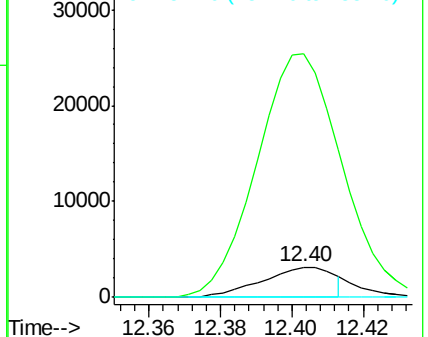
173 100

175 822.7 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: VN053444.D

Acq: 17 Jan 2019 19:33

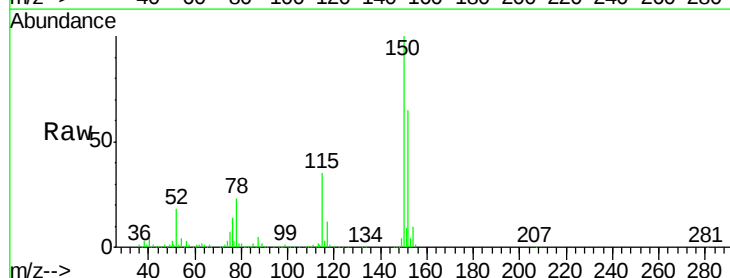
Tgt Ion:152 Resp: 614203

Ion Ratio Lower Upper

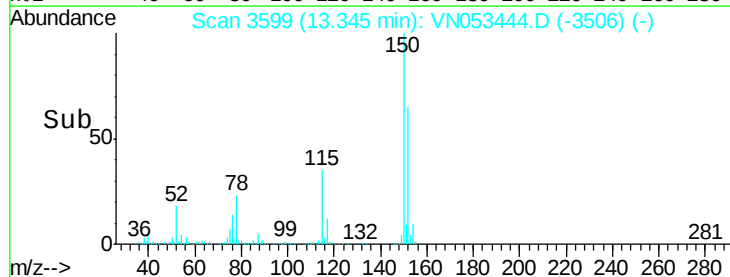
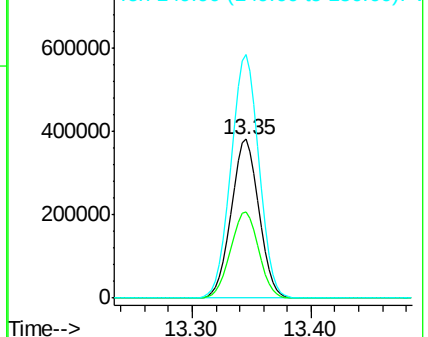
152 100

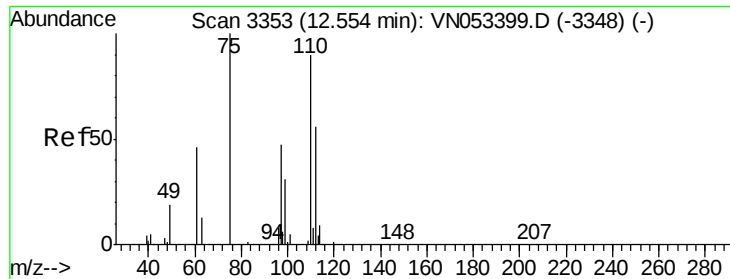
115 55.2 27.8 83.4

150 154.6 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

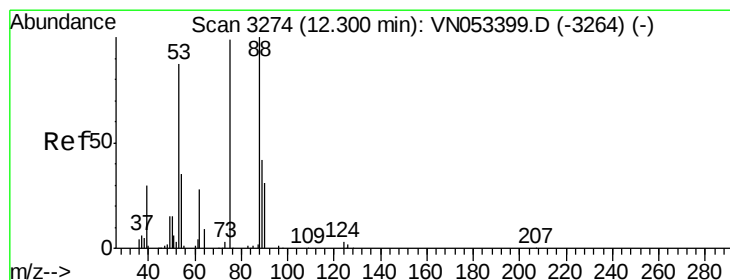
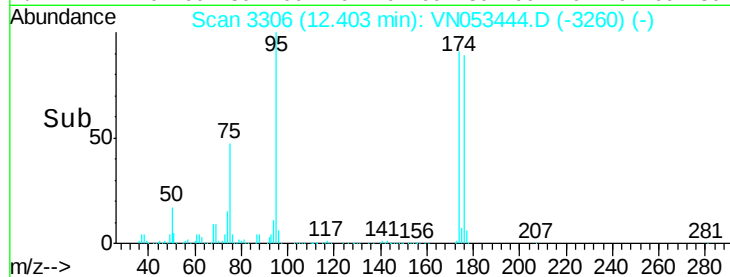
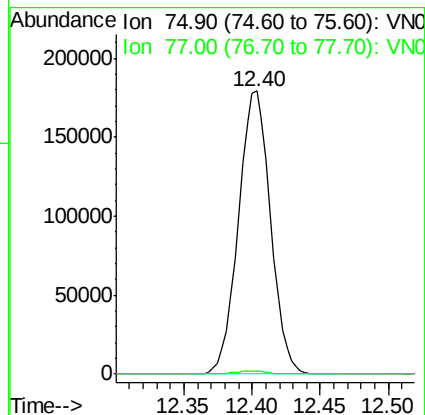
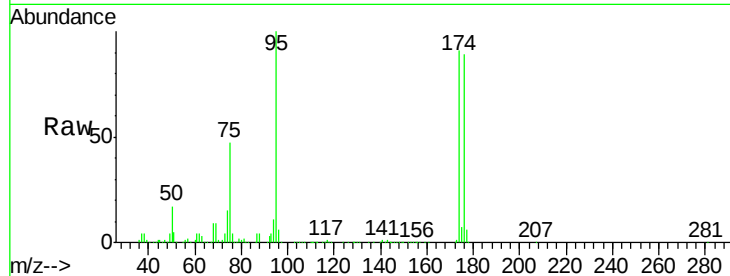




#76

1,2,3-Trichloropropane
Concen: 36.126 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN053444.D
Acq: 17 Jan 2019 19:33

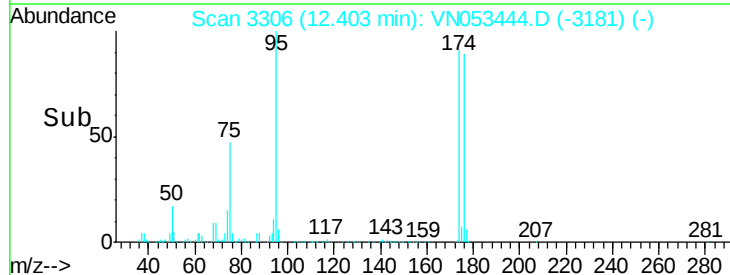
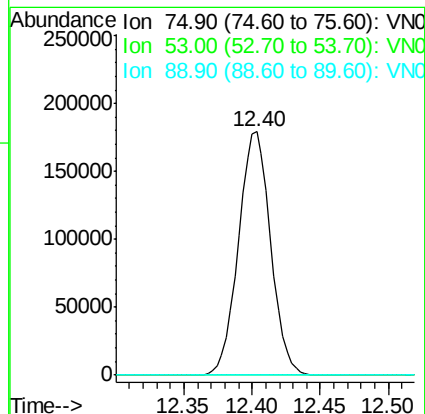
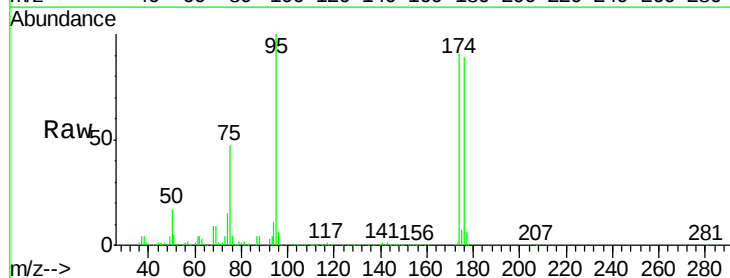
Tot Ion: 75 Resp: 292408
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#

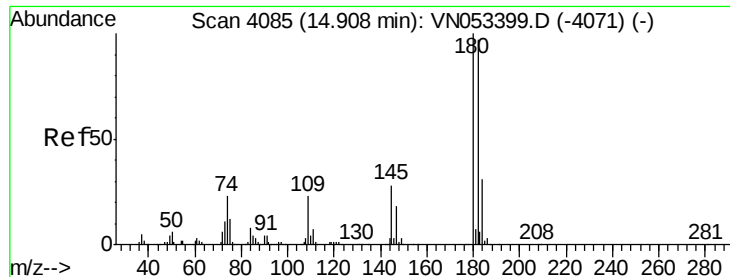


#81

trans-1,4-Dichloro-2-butene
Concen: 89.328 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN053444.D
Acq: 17 Jan 2019 19:33

Tgt Ion: 75 Resp: 292408
Ion Ratio Lower Upper
75 100
53 0.0 69.8 104.6#
89 0.0 35.6 53.4#

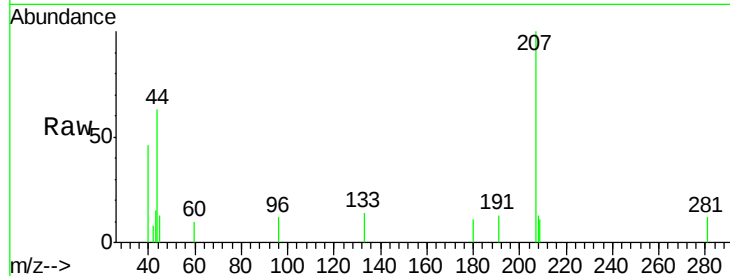




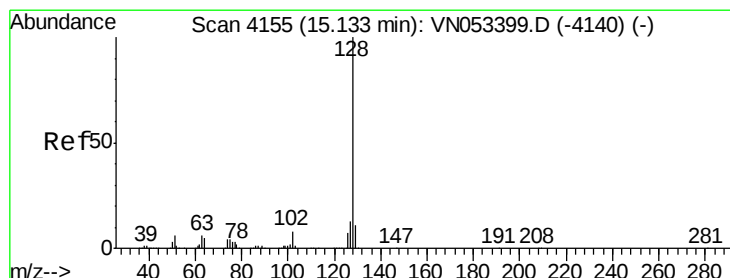
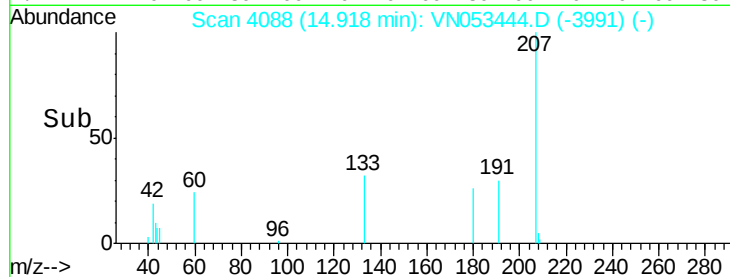
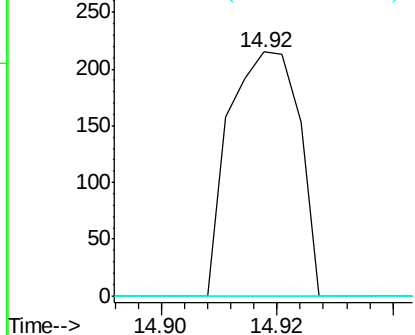
#93

1,2,4-Trichlorobenzene
Concen: 2.786 ug/l
RT: 14.92 min Scan# 4088
Delta R.T. 0.01 min
Lab File: VN053444.D
Acq: 17 Jan 2019 19:33

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.1	144.3#
145	0.0	13.9	41.6#



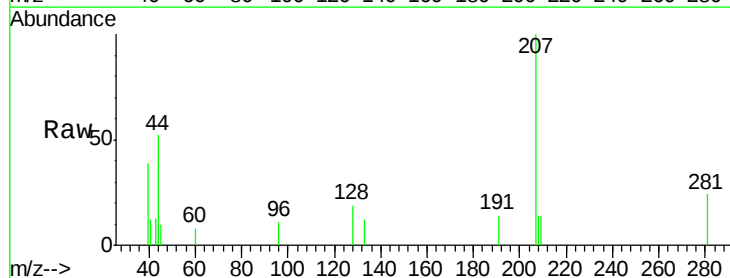
Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene
Concen: 3.969 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN053444.D
Acq: 17 Jan 2019 19:33

Tgt 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): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

