

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020719\
 Data File : VN053658.D
 Acq On : 7 Feb 2019 16:20
 Operator : JC/SP
 Sample : PB116887ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Quant Time: Feb 09 00:29:58 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	728058	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1192554	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1083991	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	453745	50.00	ug/l	0.00

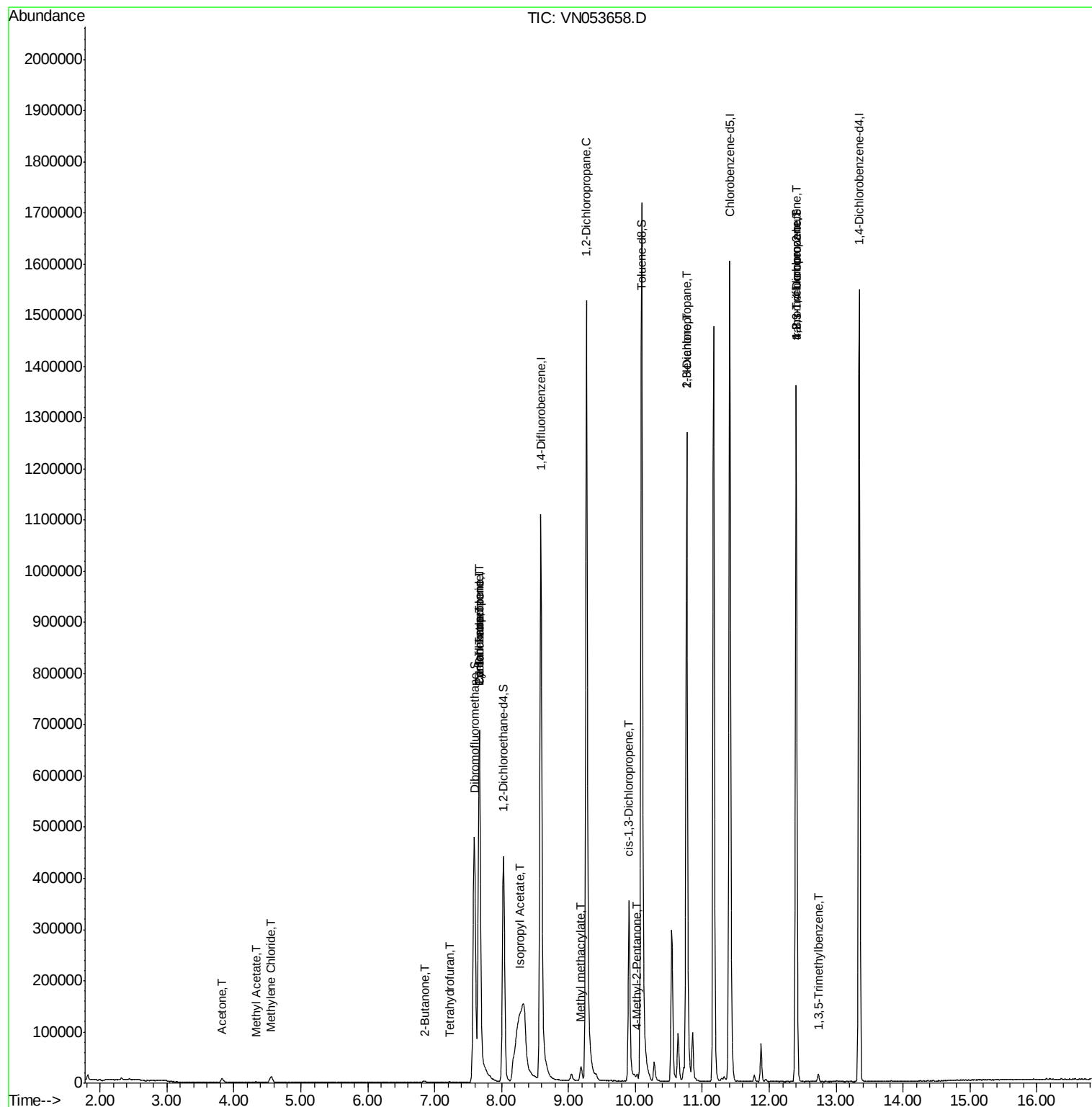
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	383156	52.46	ug/l	0.00
Spiked Amount			Recovery	=	104.92%	
35) Dibromofluoromethane	7.59	113	377371	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
50) Toluene-d8	10.09	98	1432945	50.64	ug/l	0.00
Spiked Amount			Recovery	=	101.28%	
62) 4-Bromofluorobenzene	12.40	95	474926	50.33	ug/l	0.00
Spiked Amount			Recovery	=	100.66%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.83	43	12199	6.512	ug/l	94
18) Methyl Acetate	4.33	43	2698	0.486	ug/l #	83
20) Methylene Chloride	4.55	84	9460	1.204	ug/l	93
25) 2-Butanone	6.85	43	5571	2.085	ug/l	93
29) Tetrahydrofuran	7.22	42	1080	0.629	ug/l #	41
31) Cyclohexane	7.67	56	10410	0.676	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	42410	3.945	ug/l #	49
38) Carbon Tetrachloride	7.67	117	57481	5.308	ug/l #	16
43) Isopropyl Acetate	8.26	43	205161	17.694	ug/l #	51
45) 1,2-Dichloropropane	9.27	63	1888	0.223	ug/l #	43
48) Methyl methacrylate	9.18	41	10593	1.914	ug/l #	12
51) 4-Methyl-2-Pentanone	10.02	43	8914	1.564	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	77174	6.120	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	14789	1.221	ug/l #	43
59) 2-Hexanone	10.77	43	194003	50.155	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	219874	37.727	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7191	0.272	ug/l	86
81) trans-1,4-Dichloro-2-buten	12.40	75	219874	106.084	ug/l #	15

(#) = 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# 1834

Delta R.T. 0.00 min

Lab File: VN053658.D

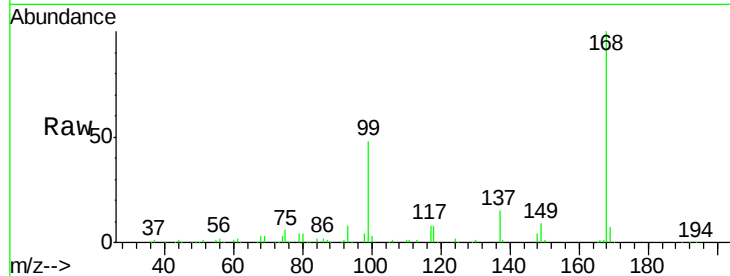
Acq: 7 Feb 2019 16:20

Tot Ion:168 Resp: 728058

Ion Ratio Lower Upper

168 100

99 48.3 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

150000

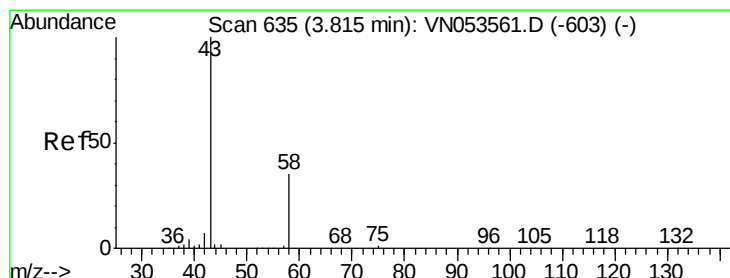
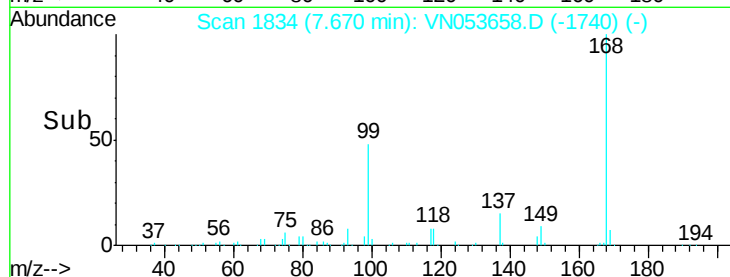
100000

50000

0

Time-->

7.60 7.80



#16

Acetone

Concen: 6.512 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN053658.D

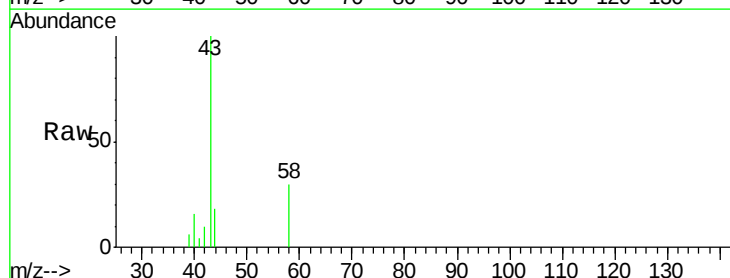
Acq: 7 Feb 2019 16:20

Tgt Ion: 43 Resp: 12199

Ion Ratio Lower Upper

43 100

58 30.7 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.83

5000

4000

3000

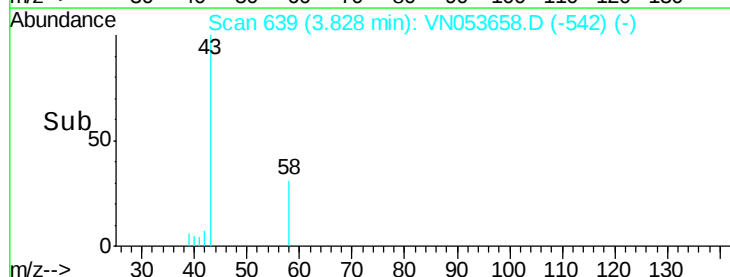
2000

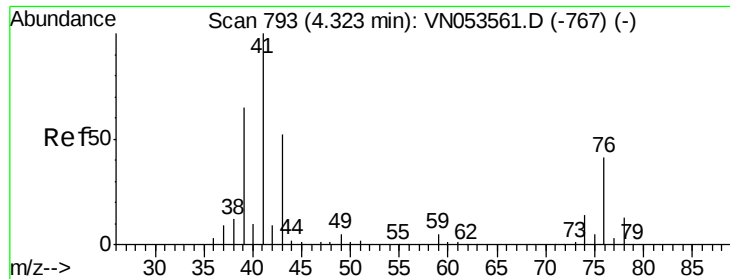
1000

0

Time-->

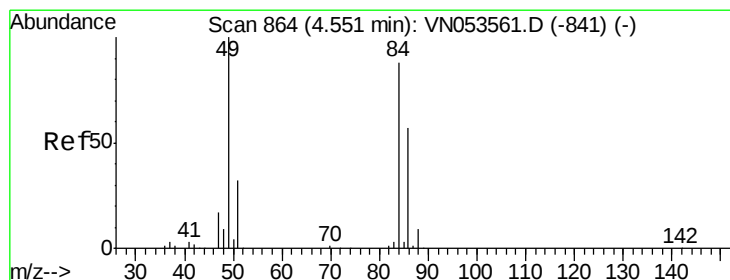
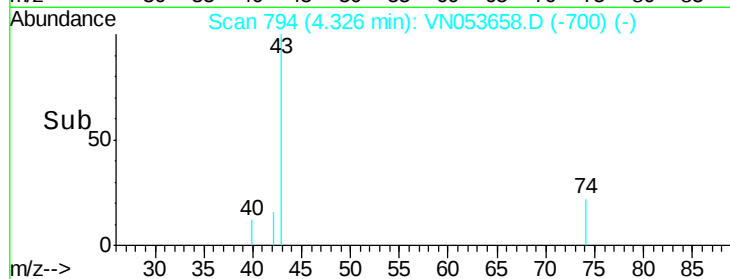
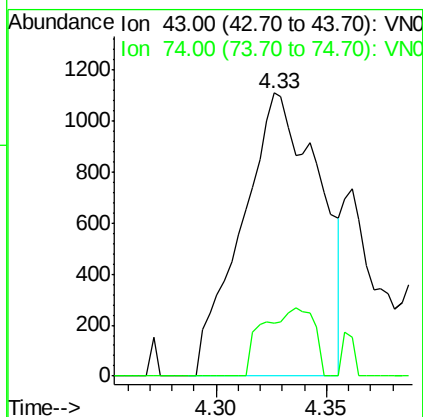
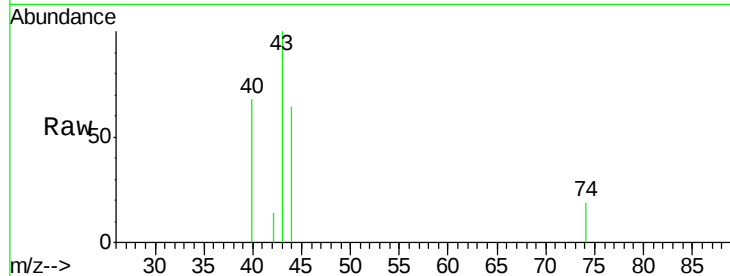
3.75 3.80 3.85 3.90





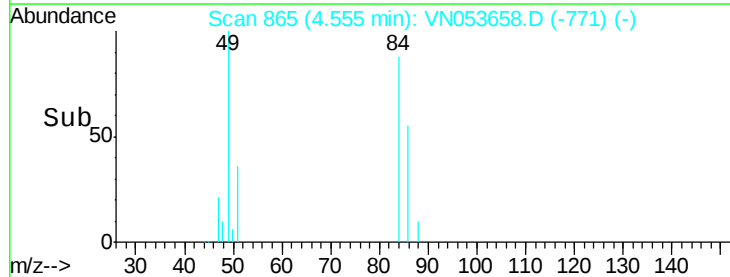
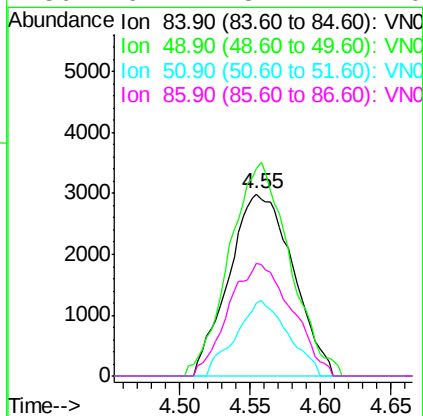
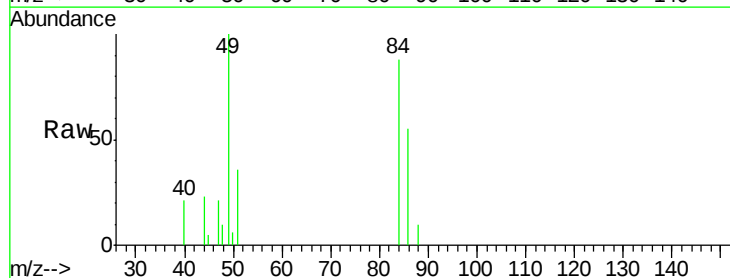
#18
Methyl Acetate
Concen: 0.486 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053658.D
Acq: 7 Feb 2019 16:20

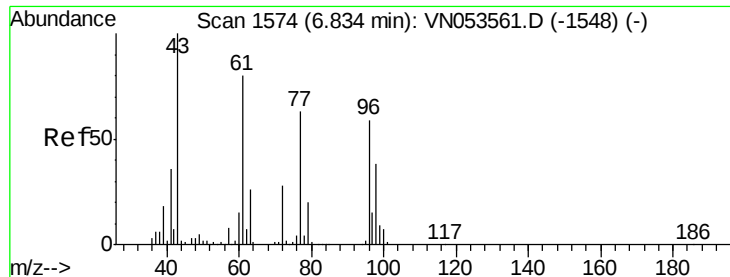
Tot Ion: 43 Resp: 2698
Ion Ratio Lower Upper
43 100
74 15.9 19.4 29.2#



#20
Methylene Chloride
Concen: 1.204 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053658.D
Acq: 7 Feb 2019 16:20

Tgt Ion: 84 Resp: 9460
Ion Ratio Lower Upper
84 100
49 108.2 94.3 141.5
51 40.4 29.4 44.2
86 62.1 51.4 77.0





#25

2-Butanone

Concen: 2.085 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN053658.D

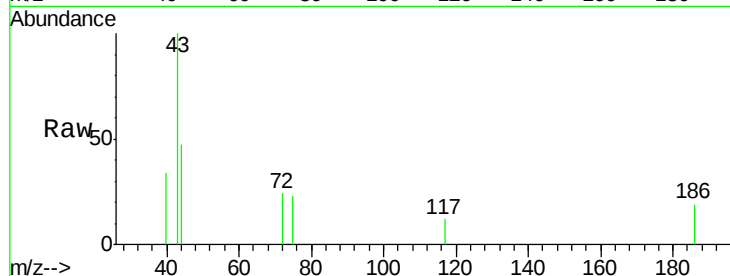
Acq: 7 Feb 2019 16:20

Tot Ion: 43 Resp: 5571

Ion Ratio Lower Upper

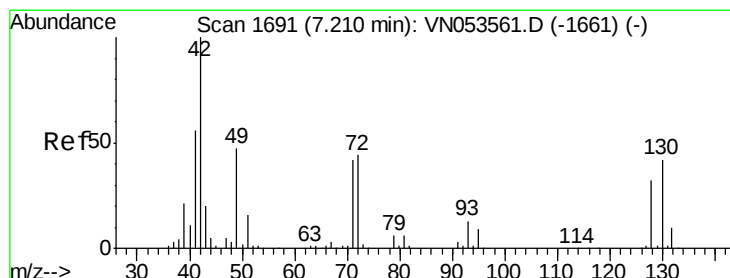
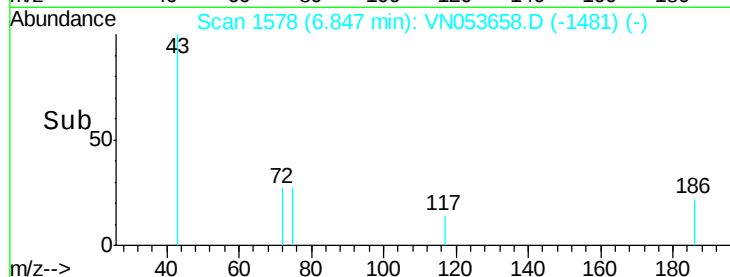
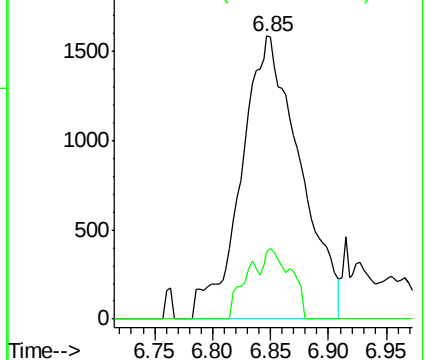
43 100

72 23.8 22.0 33.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.629 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.01 min

Lab File: VN053658.D

Acq: 7 Feb 2019 16:20

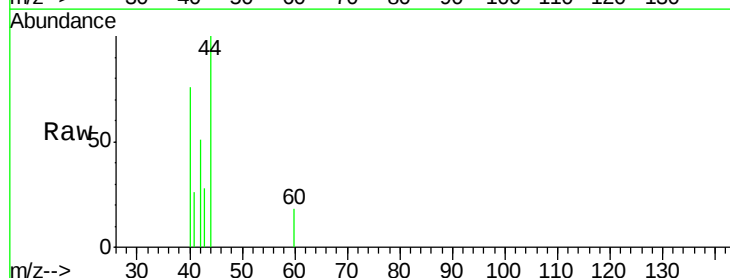
Tgt Ion: 42 Resp: 1080

Ion Ratio Lower Upper

42 100

72 0.0 35.2 52.8#

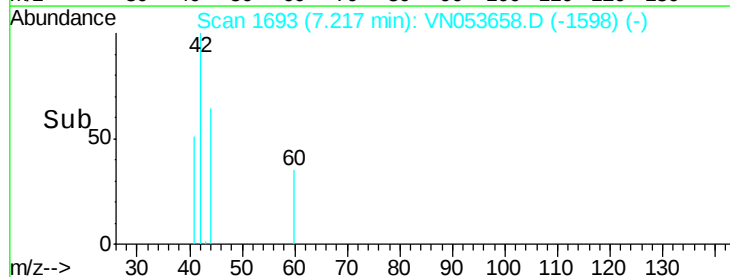
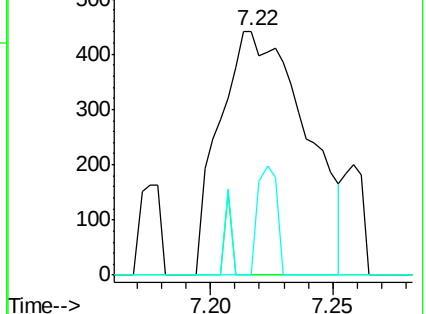
71 9.7 33.0 49.4#

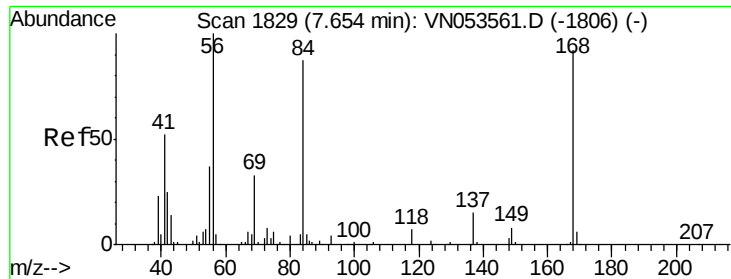


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

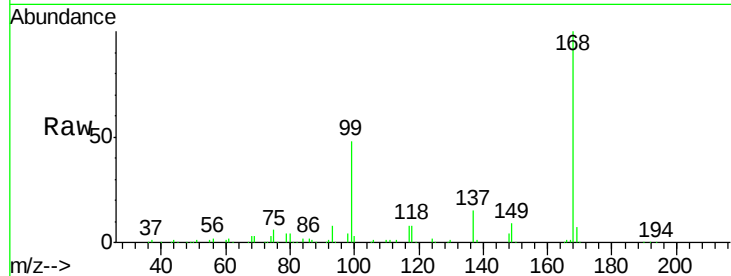
Ion 71.00 (70.70 to 71.70): VN0



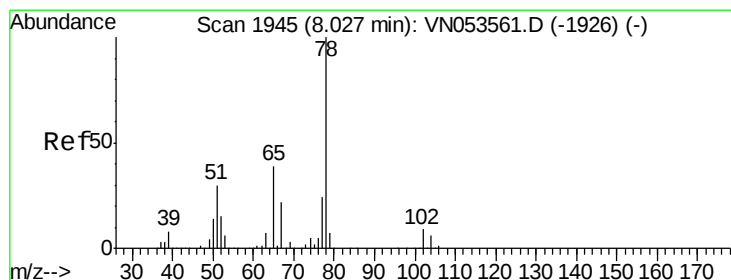
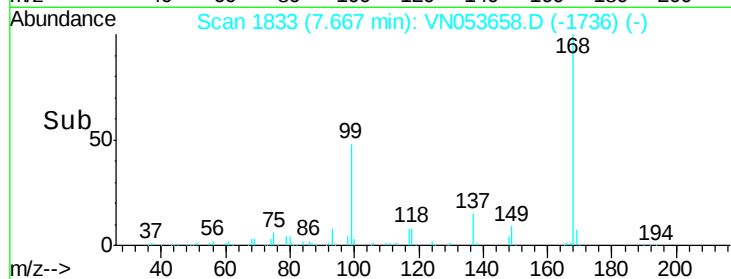
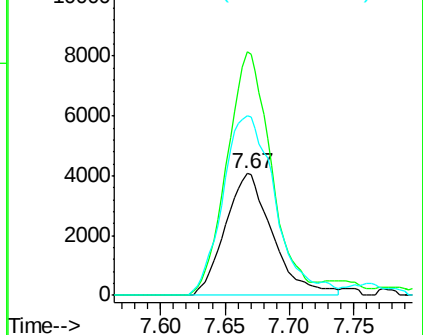


#31
Cyclohexane
Concen: 0.676 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN053658.D
Acq: 7 Feb 2019 16:20

Tot Ion: 56 Resp: 10410
Ion Ratio Lower Upper
56 100
69 200.2 26.4 39.6#
84 147.7 67.9 101.9#

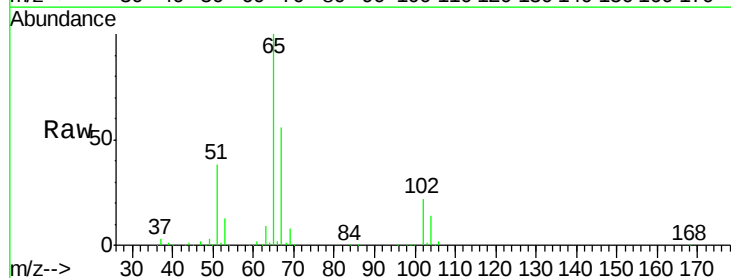


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

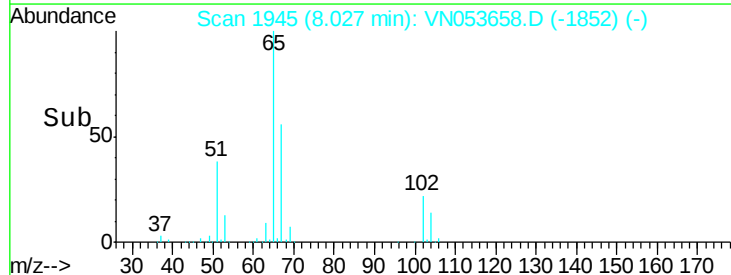
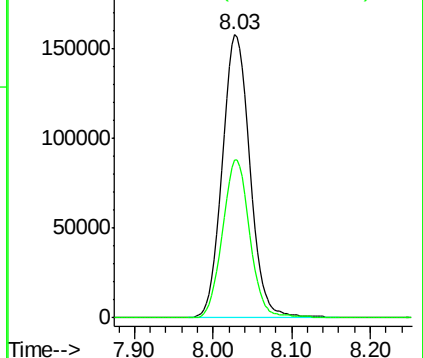


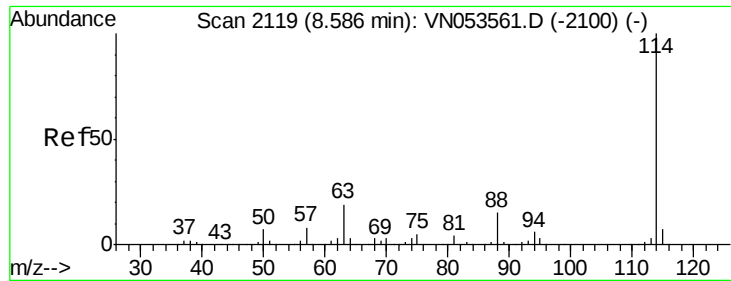
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN053658.D
Acq: 7 Feb 2019 16:20

Tgt Ion: 65 Resp: 383156
Ion Ratio Lower Upper
65 100
67 54.7 0.0 111.2



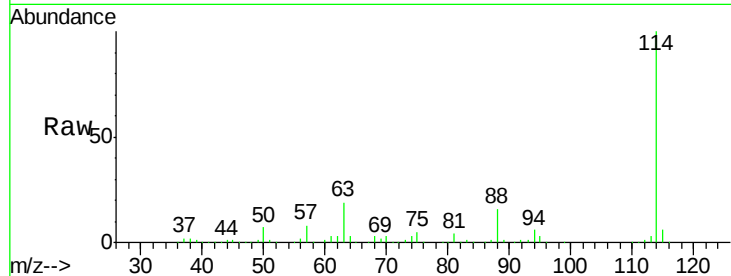
Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0



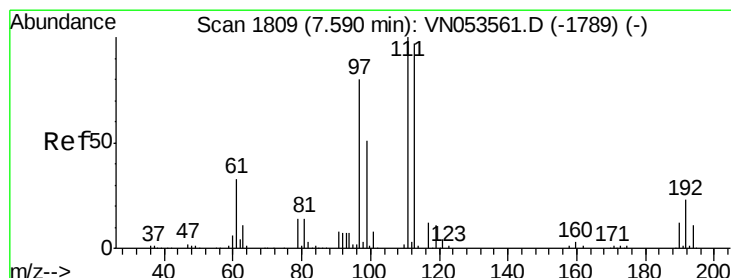
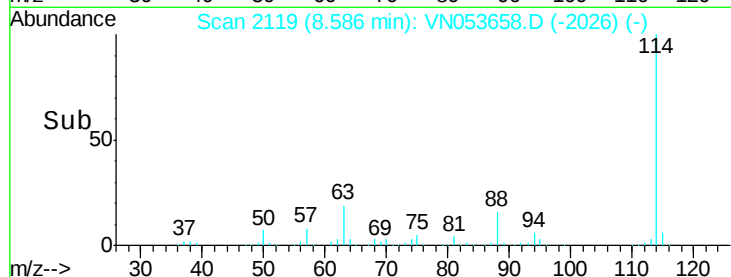
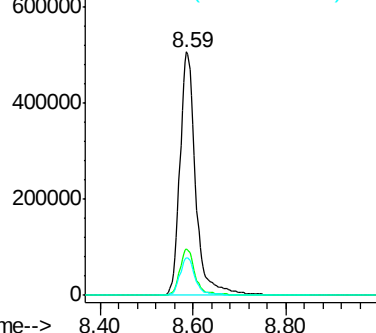


#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN053658.D
Acq: 7 Feb 2019 16:20

Tot Ion:114 Resp: 1192554
Ion Ratio Lower Upper
114 100
63 18.9 0.0 38.6
88 15.6 0.0 30.4

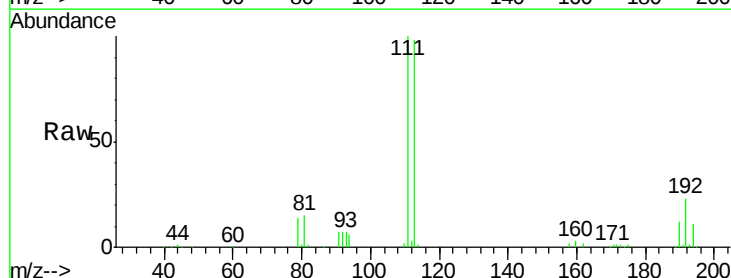


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

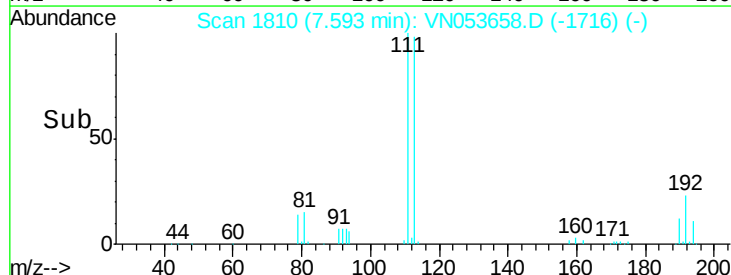
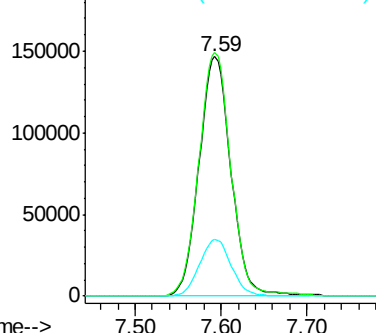


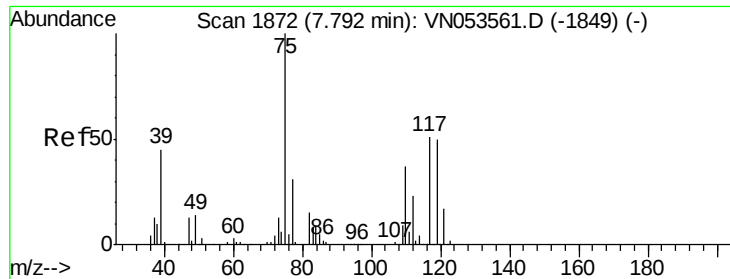
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN053658.D
Acq: 7 Feb 2019 16:20

Tgt Ion:113 Resp: 377371
Ion Ratio Lower Upper
113 100
111 102.6 81.1 121.7
192 23.7 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: 3.945 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053658.D

Acq: 7 Feb 2019 16:20

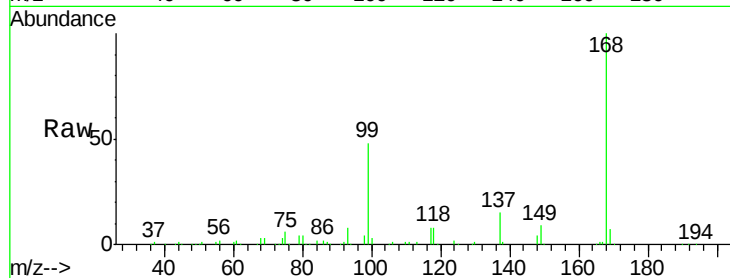
Tot Ion: 75 Resp: 42410

Ion Ratio Lower Upper

75 100

110 8.6 18.1 54.3#

77 0.0 25.1 37.7#

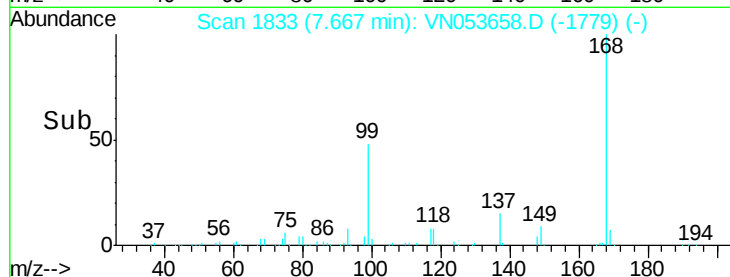


Abundance Ion 74.90 (74.60 to 75.60): VN053561.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN053561.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN053561.D (-1849) (-)

Time-->



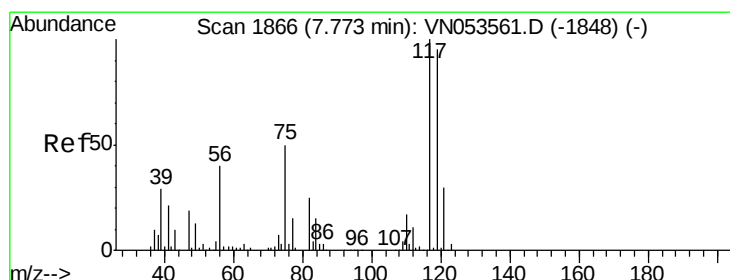
Abundance

Ion 74.90 (74.60 to 75.60): VN053561.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN053561.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN053561.D (-1849) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.308 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN053658.D

Acq: 7 Feb 2019 16:20

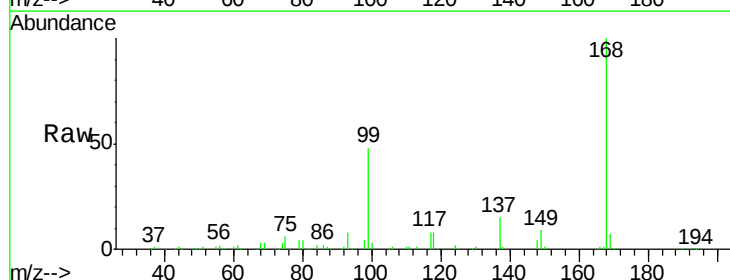
Tgt Ion: 117 Resp: 57481

Ion Ratio Lower Upper

117 100

119 5.7 77.2 115.8#

121 0.0 24.6 37.0#

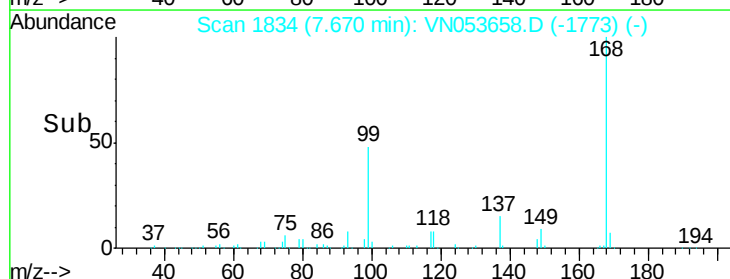


Abundance Ion 116.80 (116.50 to 117.50): VN053561.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN053561.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN053561.D (-1848) (-)

Time-->



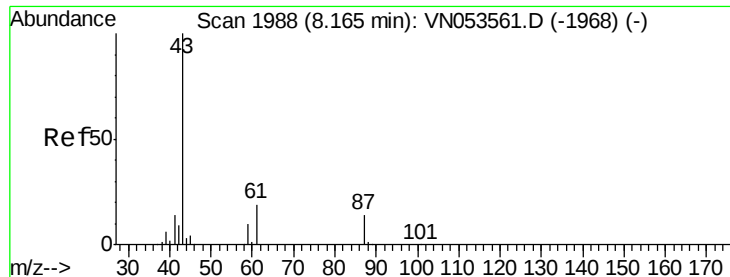
Abundance

Ion 116.80 (116.50 to 117.50): VN053561.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN053561.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN053561.D (-1848) (-)

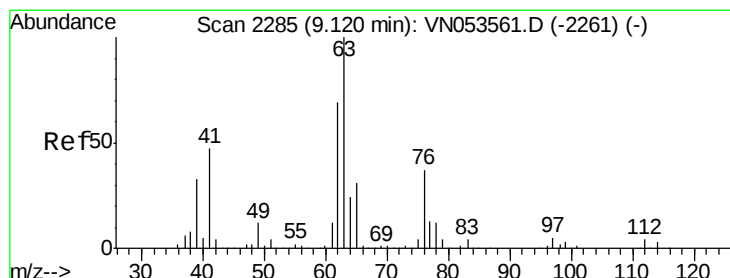
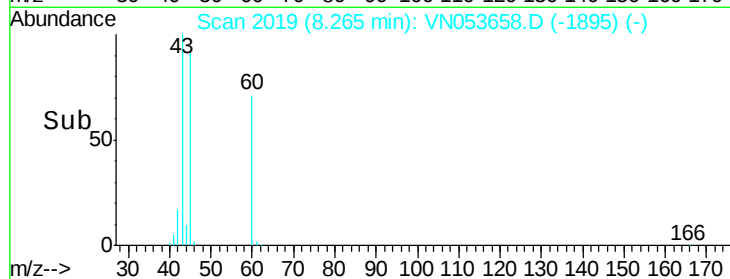
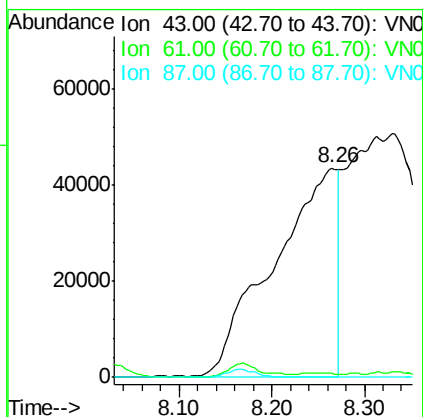
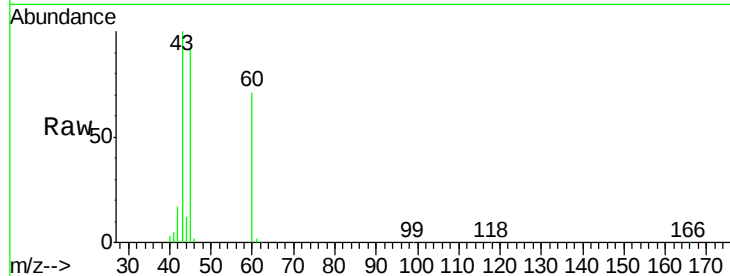
Time-->



#43

Isopropyl Acetate
 Concen: 17.694 ug/l
 RT: 8.26 min Scan# 2019
 Delta R.T. 0.10 min
 Lab File: VN053658.D
 Acq: 7 Feb 2019 16:20

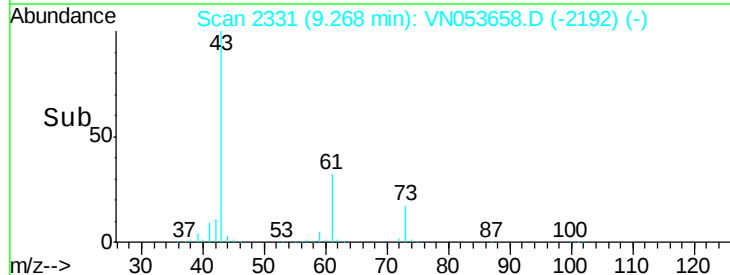
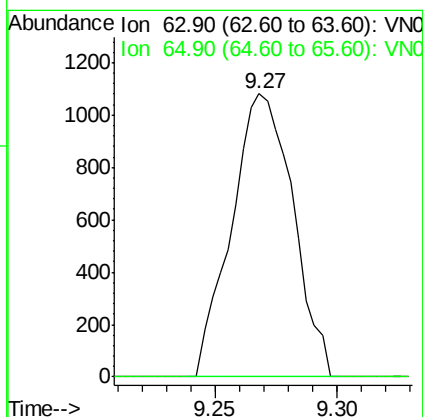
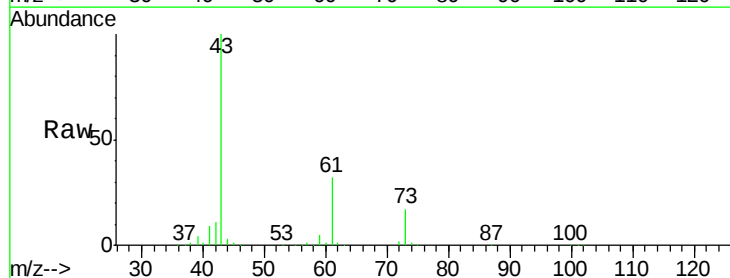
Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	23.9	35.9#
87	0.0	11.0	16.6#

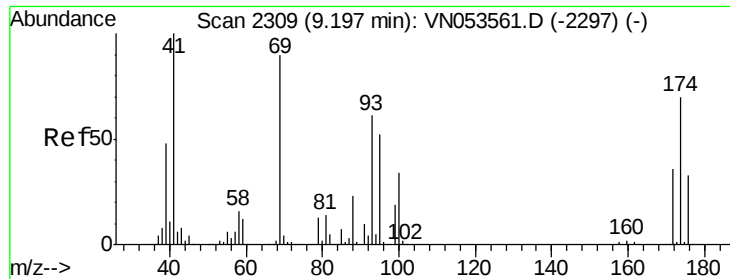


#45

1,2-Dichloropropane
 Concen: 0.223 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN053658.D
 Acq: 7 Feb 2019 16:20

Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.0	37.4#





#48

Methyl methacrylate

Concen: 1.914 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN053658.D

Acq: 7 Feb 2019 16:20

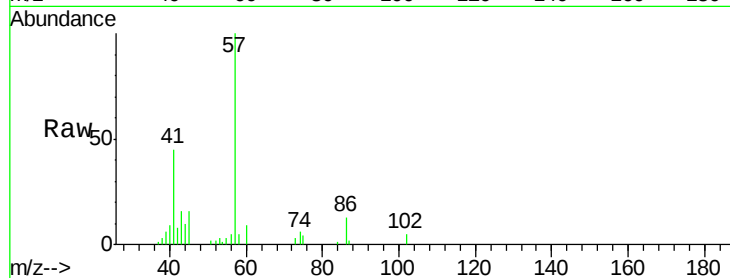
Tot Ion: 41 Resp: 10593

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): VN053561.D (-2297) (-)

Ion 69.00 (68.70 to 69.70): VN053561.D (-2297) (-)

Ion 39.00 (38.70 to 39.70): VN053561.D (-2297) (-)

Time-->

9.10 9.15 9.20

30000

20000

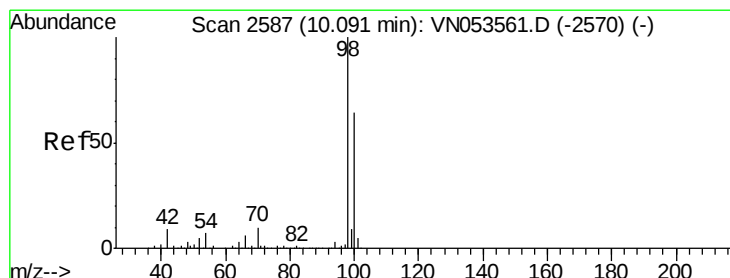
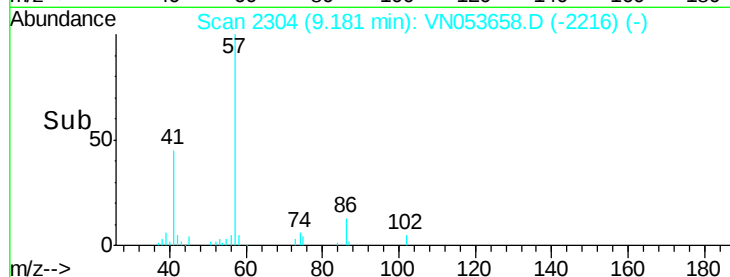
10000

0

9.18

Time-->

9.10 9.15 9.20



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053658.D

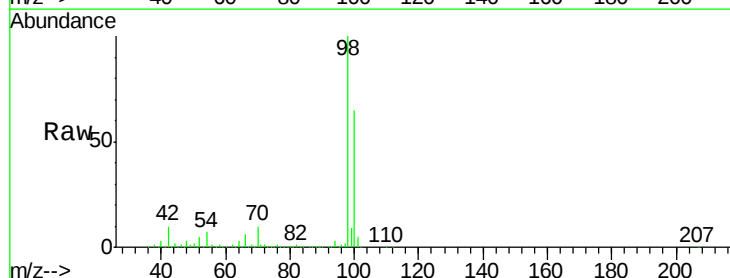
Acq: 7 Feb 2019 16:20

Tgt Ion: 98 Resp: 1432945

Ion Ratio Lower Upper

98 100

100 64.5 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053561.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN053561.D (-2570) (-)

Time-->

10.00 10.10 10.20 10.30

800000

600000

400000

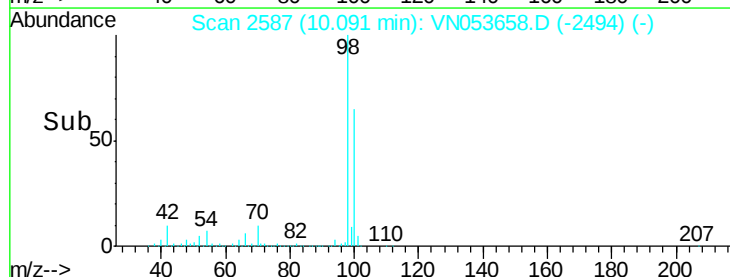
200000

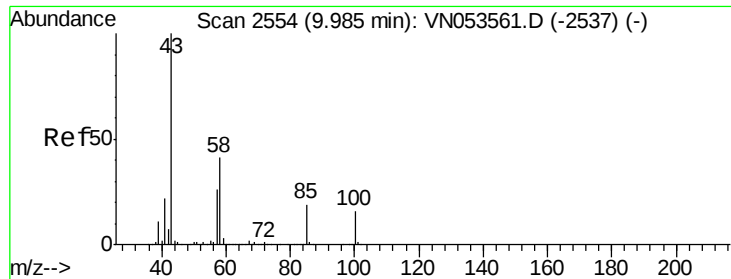
0

10.09

Time-->

10.00 10.10 10.20 10.30





#51

4-Methyl-2-Pentanone

Concen: 1.564 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053658.D

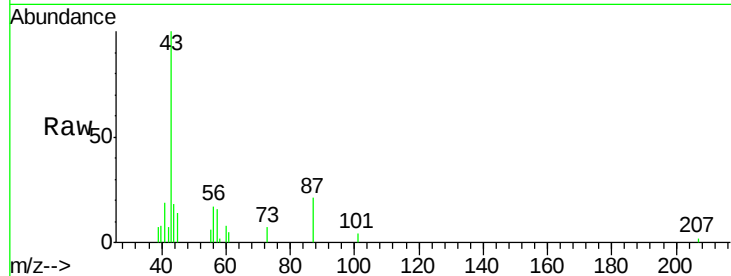
Acq: 7 Feb 2019 16:20

Tot Ion: 43 Resp: 8914

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

8000

6000

4000

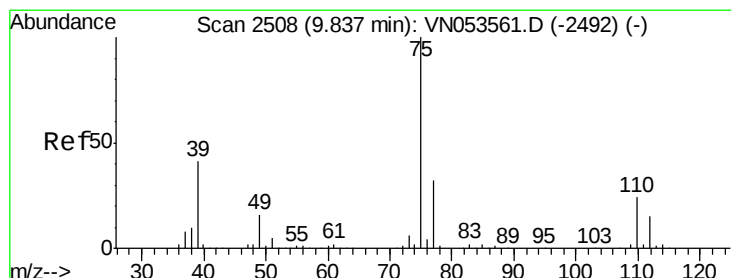
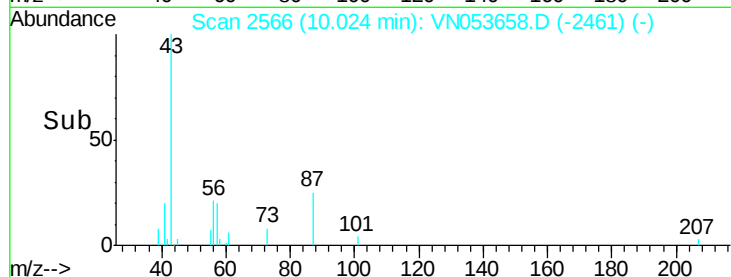
2000

0

10.00

10.05

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.120 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053658.D

Acq: 7 Feb 2019 16:20

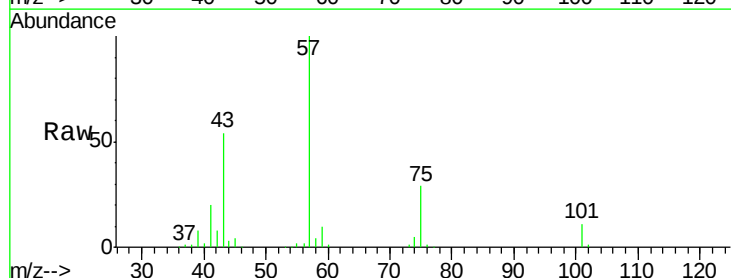
Tgt Ion: 75 Resp: 77174

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

39 26.0 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

50000

40000

30000

20000

10000

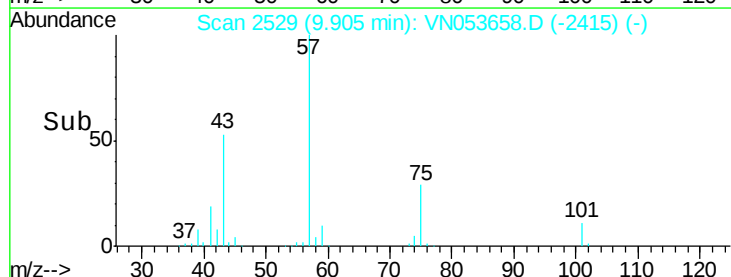
0

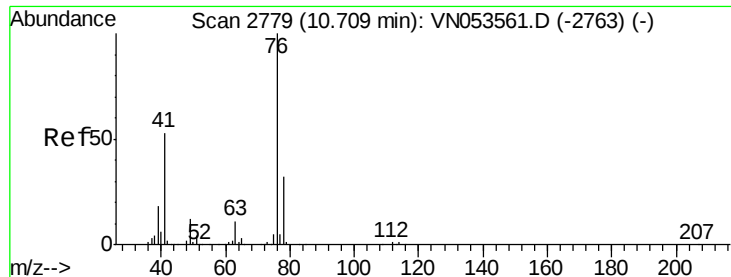
9.80

9.90

10.00

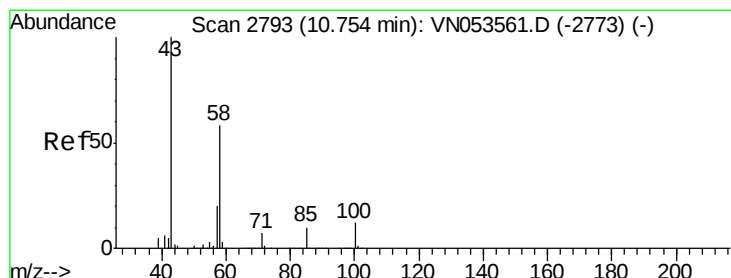
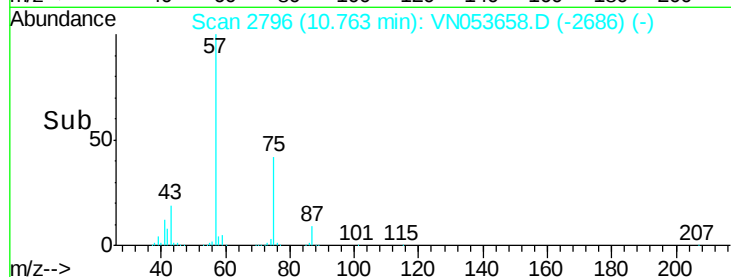
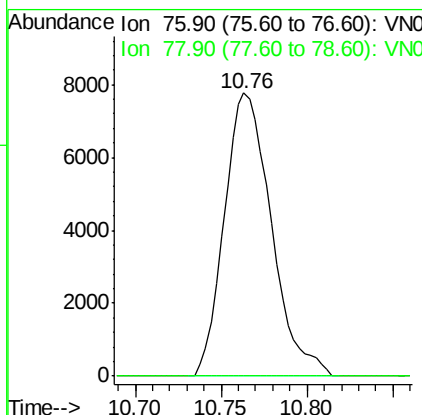
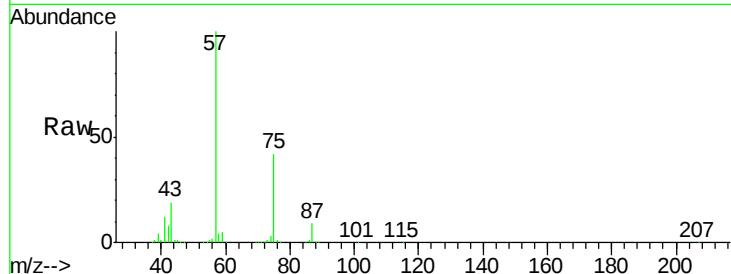
Time-->





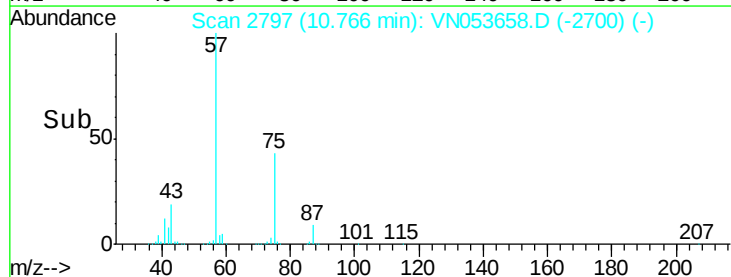
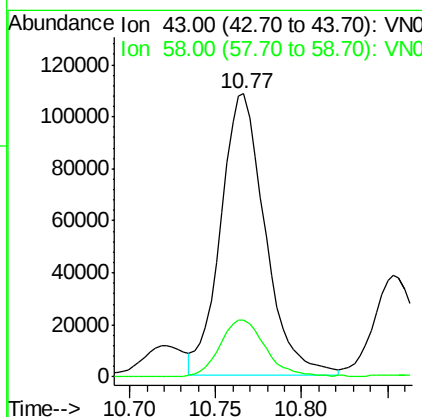
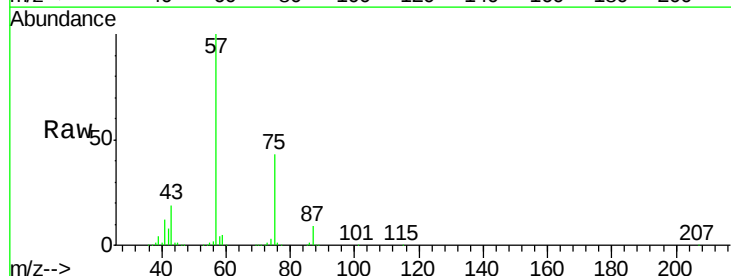
#57
 1,3-Dichloropropane
 Concen: 1.221 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN053658.D
 Acq: 7 Feb 2019 16:20

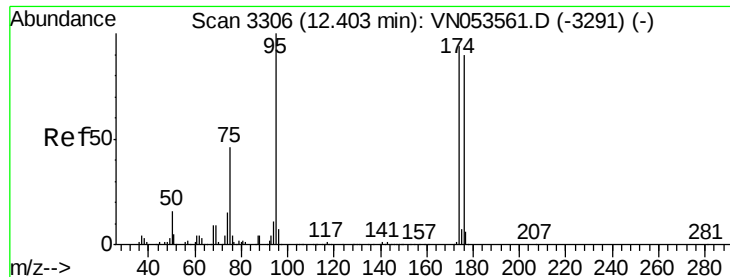
Tot Ion: 76 Resp: 14789
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 50.155 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN053658.D
 Acq: 7 Feb 2019 16:20

Tgt Ion: 43 Resp: 194003
 Ion Ratio Lower Upper
 43 100
 58 20.9 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: VN053658.D

Acq: 7 Feb 2019 16:20

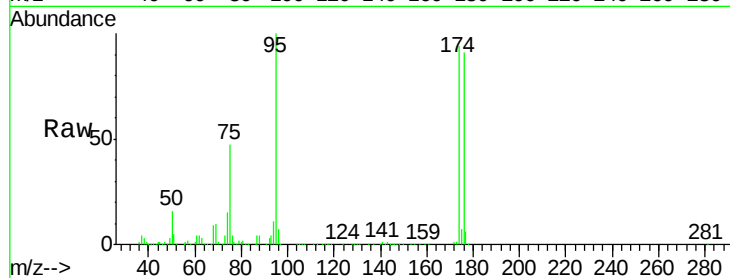
Tot Ion: 95 Resp: 474926

Ion Ratio Lower Upper

95 100

174 93.6 0.0 183.2

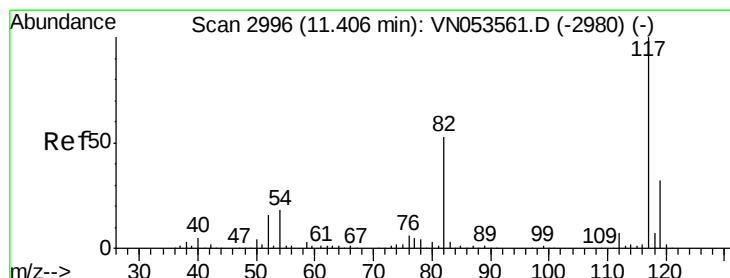
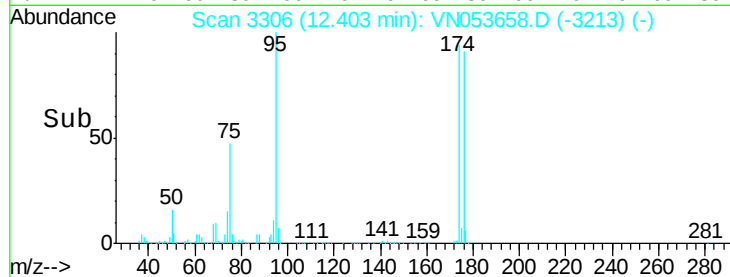
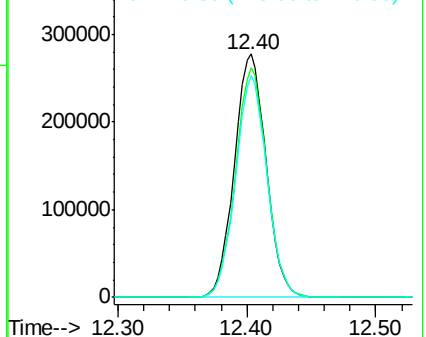
176 90.0 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053561.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN053561.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN053561.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053658.D

Acq: 7 Feb 2019 16:20

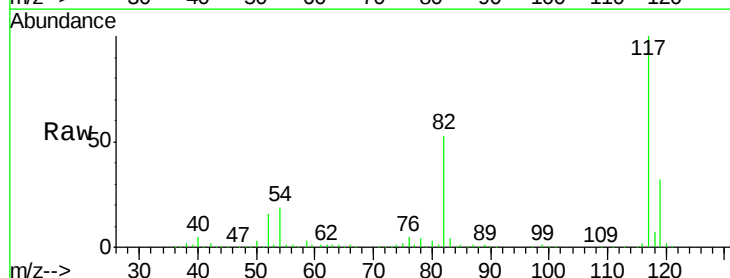
Tgt Ion: 117 Resp: 1083991

Ion Ratio Lower Upper

117 100

82 53.2 42.9 64.3

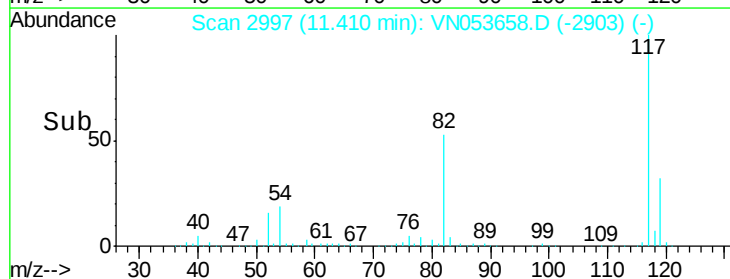
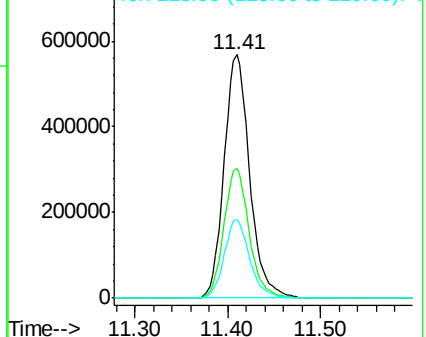
119 32.4 26.0 39.0

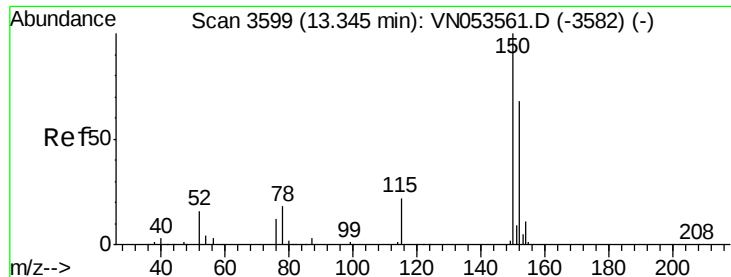


Abundance Ion 116.90 (116.60 to 117.60): VN053561.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053561.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053561.D (-2980) (-)

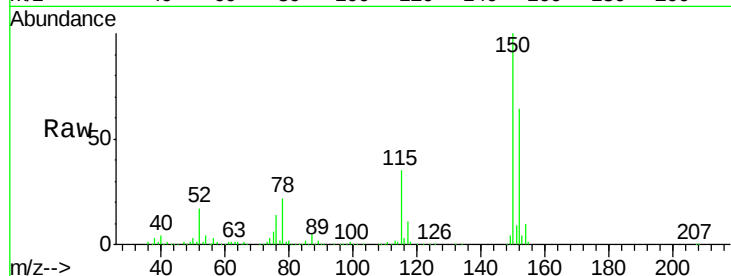




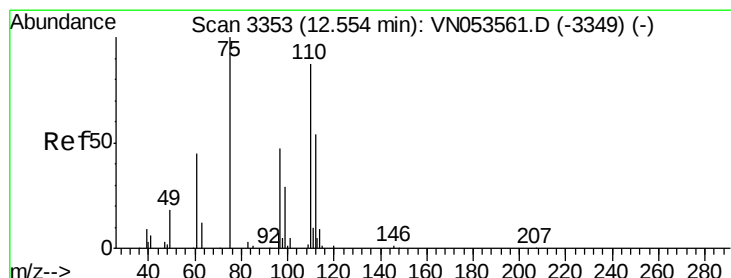
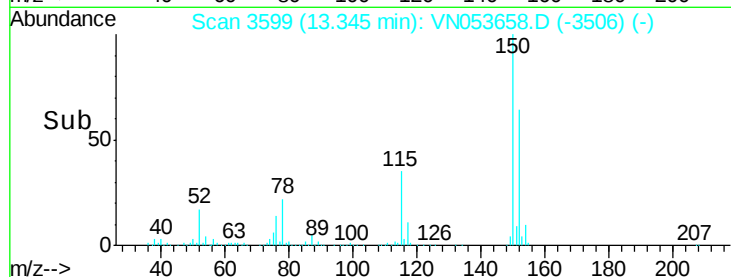
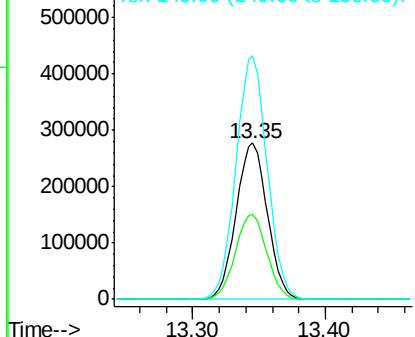
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053658.D
Acq: 7 Feb 2019 16:20

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.5	27.8	83.4
150	155.5	0.0	349.0



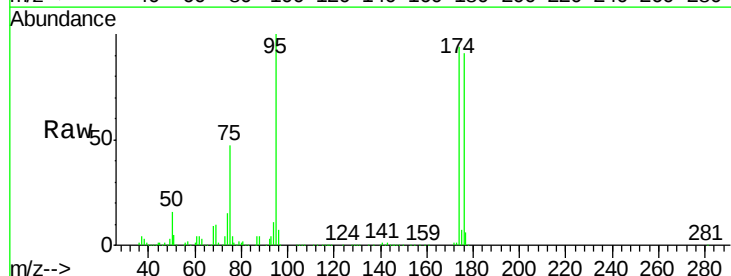
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



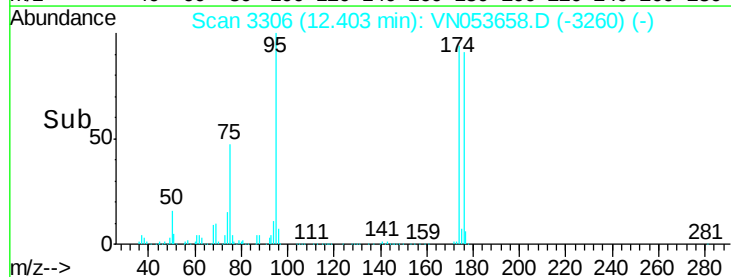
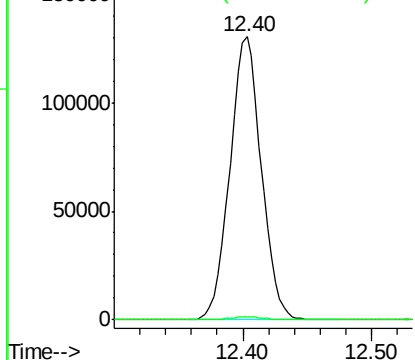
#76

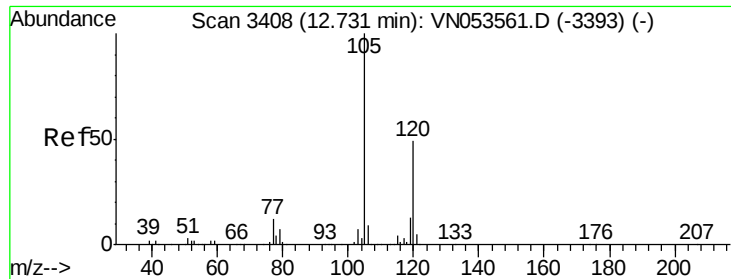
1,2,3-Trichloropropane
Concen: 37.727 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN053658.D
Acq: 7 Feb 2019 16:20

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.1	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V

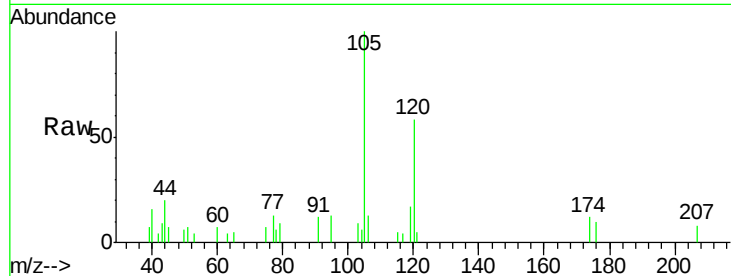




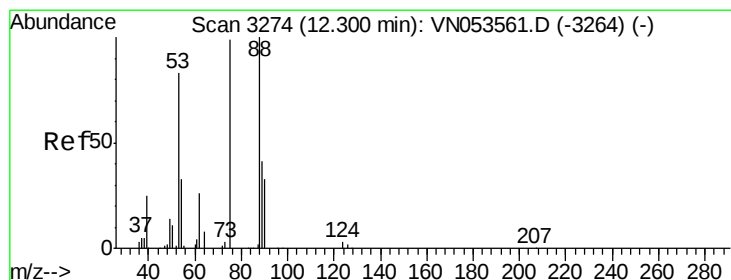
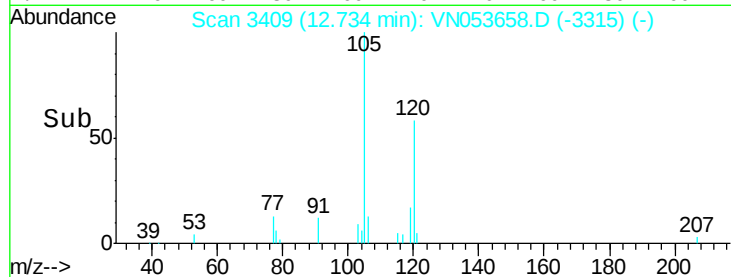
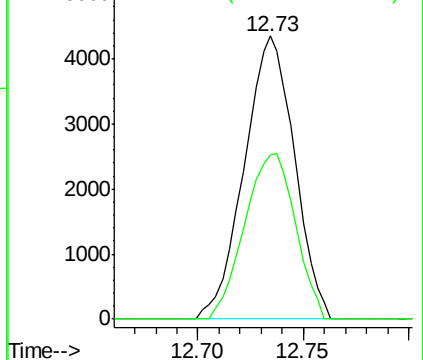
#80

1,3,5-Trimethylbenzene
Concen: 0.272 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. 0.00 min
Lab File: VN053658.D
Acq: 7 Feb 2019 16:20

Tot Ion: 105 Resp: 7191
Ion Ratio Lower Upper
105 100
120 59.0 24.9 74.6



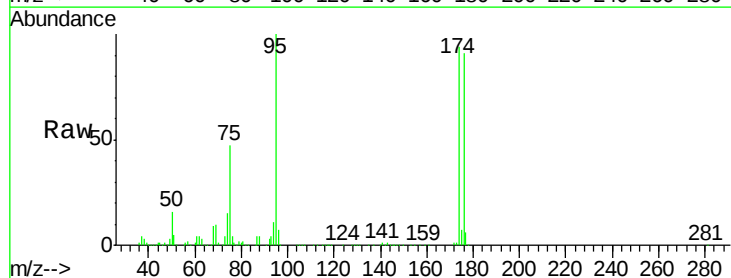
Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene
Concen: 106.084 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN053658.D
Acq: 7 Feb 2019 16:20

Tgt Ion: 75 Resp: 219874
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): VNO
Ion 53.00 (52.70 to 53.70): VNO
Ion 88.90 (88.60 to 89.60): VNO

