

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020719\
 Data File : VN053659.D
 Acq On : 7 Feb 2019 16:47
 Operator : JC/SP
 Sample : PB116887ZHE#10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 28

Quant Time: Feb 09 00:30:11 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	753627	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1228190	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1118165	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	459937	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	390969	51.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.42%	
35) Dibromofluoromethane	7.59	113	393275	50.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.36%	
50) Toluene-d8	10.09	98	1465887	50.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.62%	
62) 4-Bromofluorobenzene	12.40	95	484132	49.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.64%	

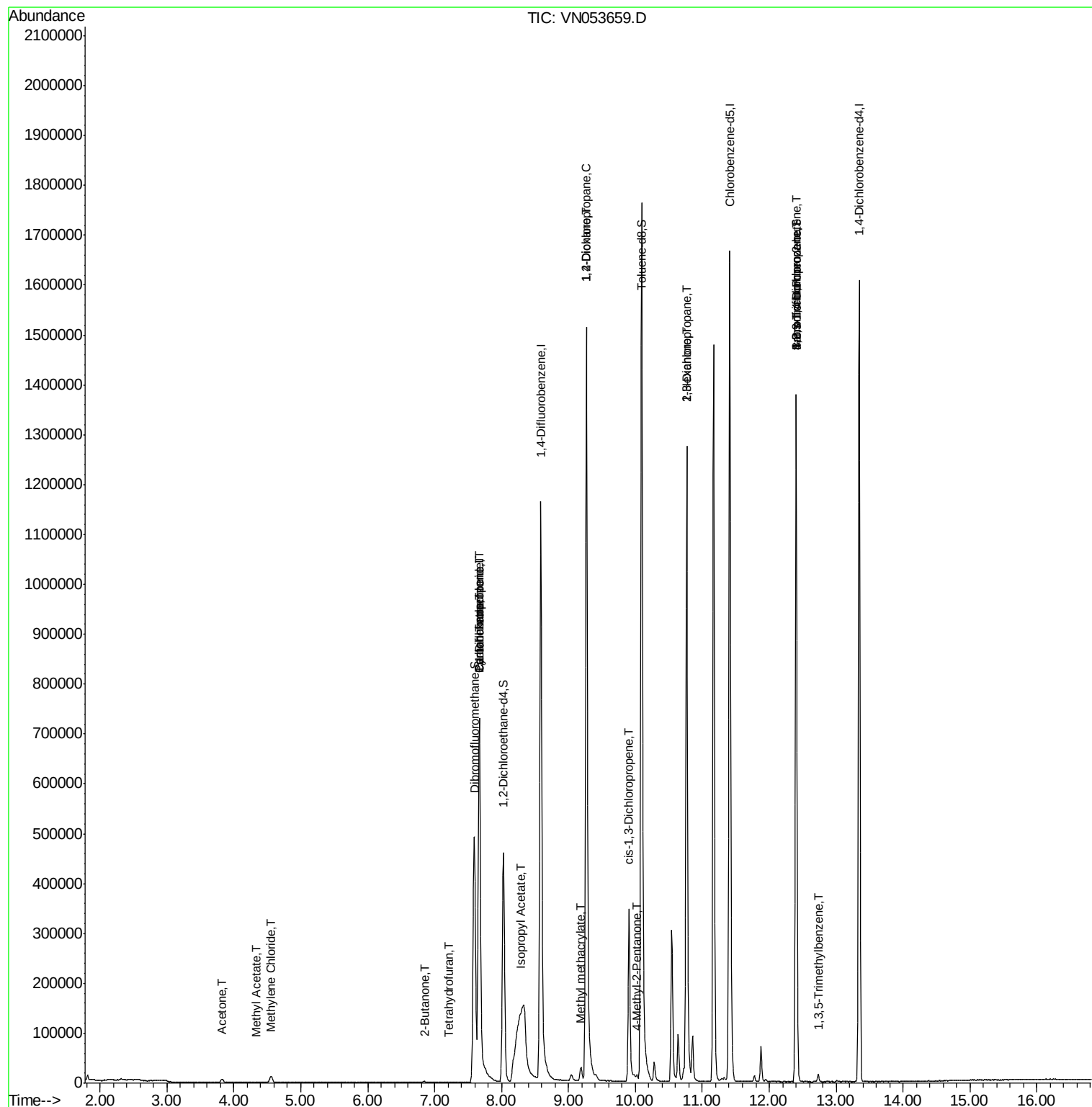
Target Compounds

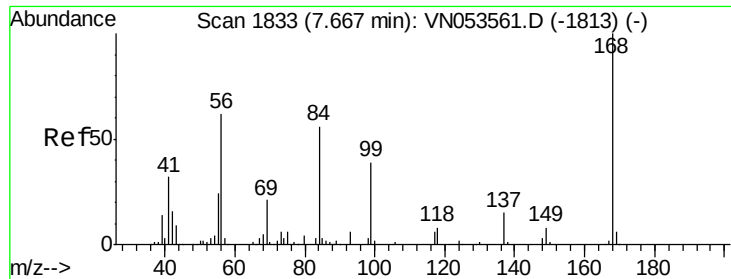
					Qvalue	
16) Acetone	3.82	43	12688	6.543	ug/l	96
18) Methyl Acetate	4.32	43	1388	0.242	ug/l #	61
20) Methylene Chloride	4.55	84	4883	0.600	ug/l	98
25) 2-Butanone	6.85	43	4688	1.695	ug/l	99
29) Tetrahydrofuran	7.21	42	450	0.253	ug/l #	33
31) Cyclohexane	7.67	56	10422	0.648	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	43407	3.921	ug/l #	48
38) Carbon Tetrachloride	7.67	117	60048	5.384	ug/l #	15
43) Isopropyl Acetate	8.27	43	249498	20.893	ug/l #	52
45) 1,2-Dichloropropane	9.27	63	2171	0.249	ug/l #	43
48) Methyl methacrylate	9.18	41	10909	1.914	ug/l #	12
49) 1,4-Dioxane	9.27	88	62	39.819	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	9651	1.645	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	74416	5.730	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	15023	1.204	ug/l #	43
59) 2-Hexanone	10.77	43	191123	47.977	ug/l #	51
71) Bromoform	12.40	173	1684	0.296	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	220636	37.348	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7111	0.265	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	220636	105.019	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# 1833

Delta R.T. 0.00 min

Lab File: VN053659.D

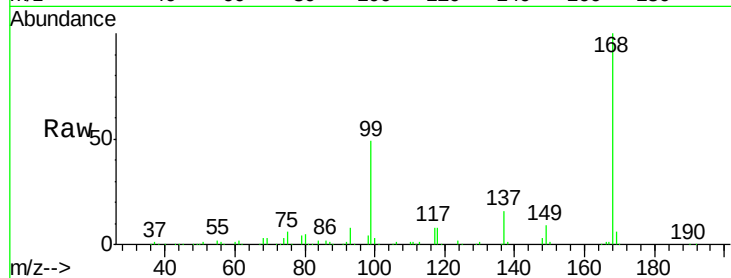
Acq: 7 Feb 2019 16:47

Tot Ion:168 Resp: 753627

Ion Ratio Lower Upper

168 100

99 48.6 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053659.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053659.D (-1740) (-)

7.67

300000

250000

200000

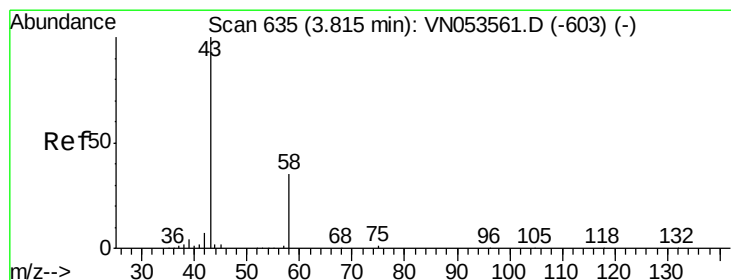
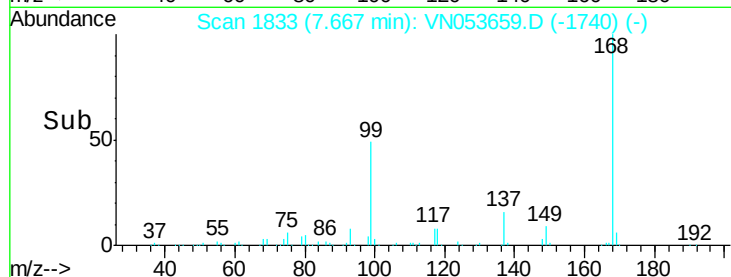
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 6.543 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053659.D

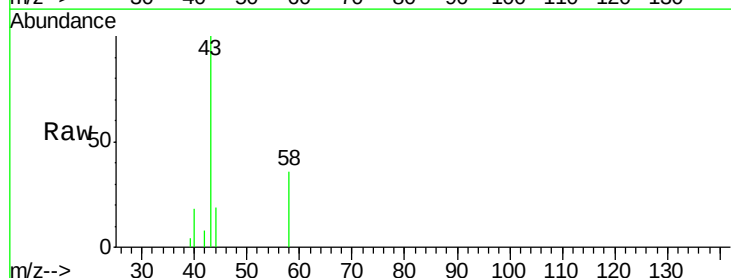
Acq: 7 Feb 2019 16:47

Tgt Ion: 43 Resp: 12688

Ion Ratio Lower Upper

43 100

58 36.5 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN053659.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN053659.D (-542) (-)

3.82

5000

4000

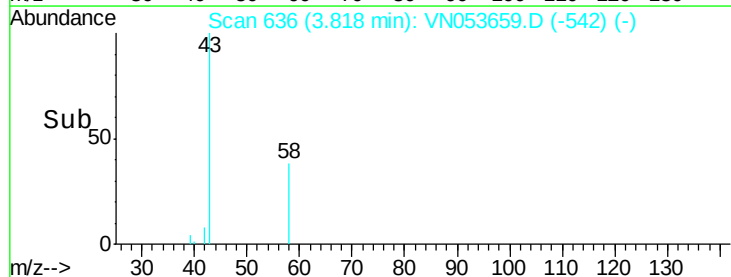
3000

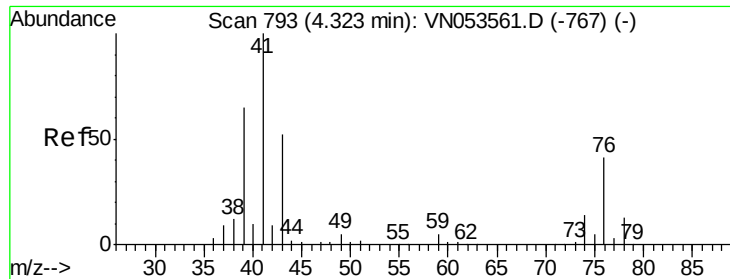
2000

1000

0

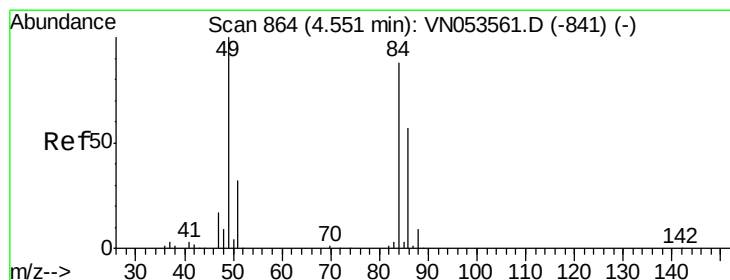
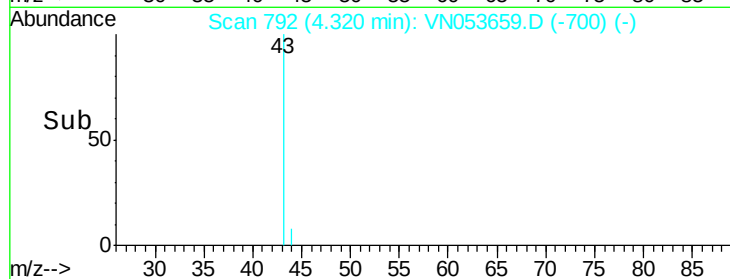
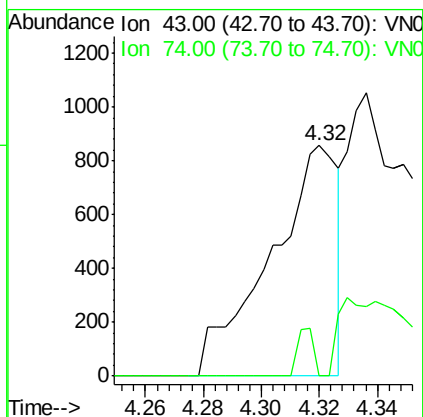
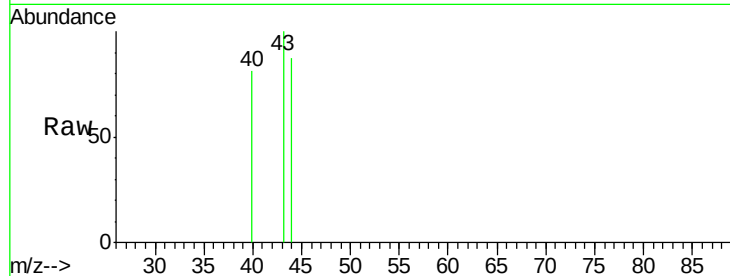
Time-->





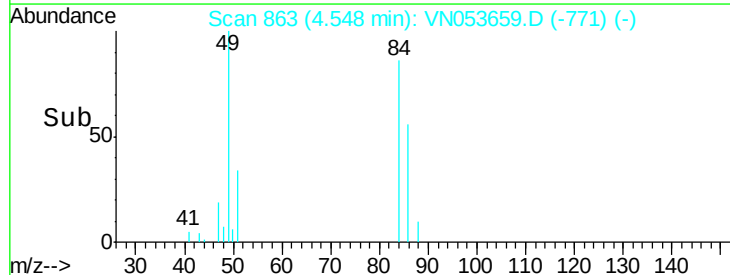
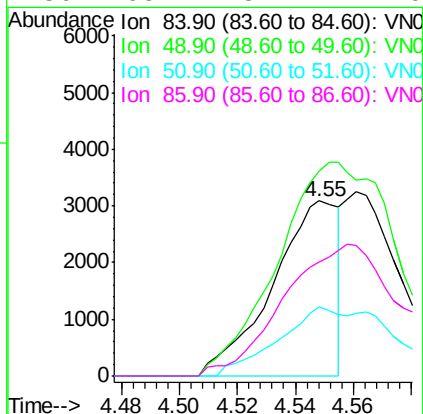
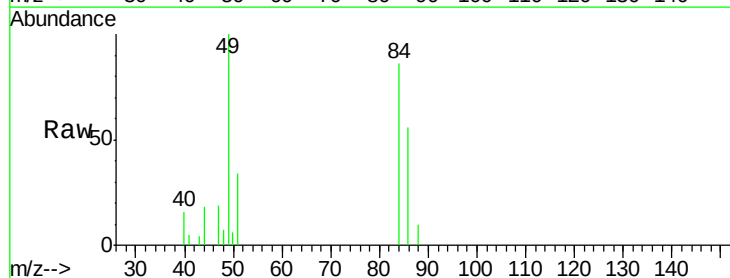
#18
Methyl Acetate
Concen: 0.242 ug/l
RT: 4.32 min Scan# 792
Delta R.T. -0.00 min
Lab File: VN053659.D
Acq: 7 Feb 2019 16:47

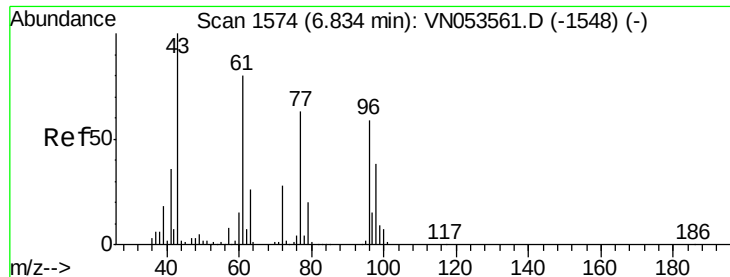
Tot Ion: 43 Resp: 1388
Ion Ratio Lower Upper
43 100
74 4.8 19.4 29.2#



#20
Methylene Chloride
Concen: 0.600 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN053659.D
Acq: 7 Feb 2019 16:47

Tgt Ion: 84 Resp: 4883
Ion Ratio Lower Upper
84 100
49 116.7 94.3 141.5
51 39.2 29.4 44.2
86 65.2 51.4 77.0





#25

2-Butanone

Concen: 1.695 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.02 min

Lab File: VN053659.D

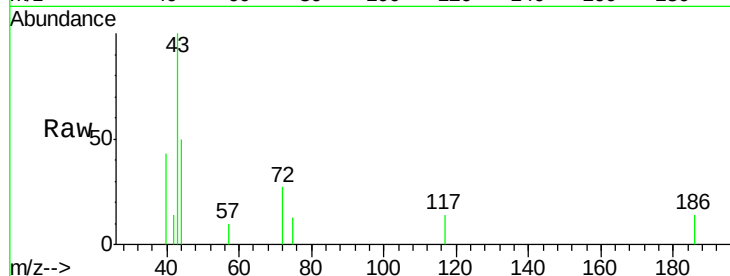
Acq: 7 Feb 2019 16:47

Tot Ion: 43 Resp: 4688

Ion Ratio Lower Upper

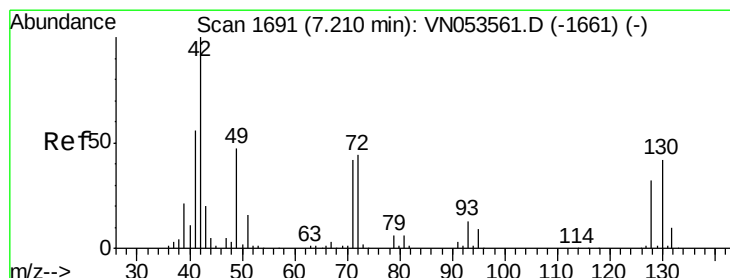
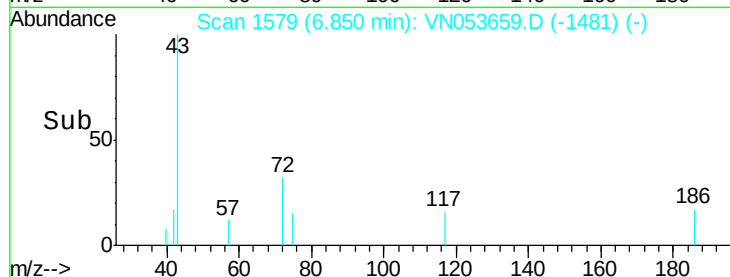
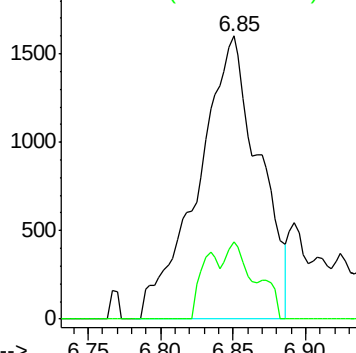
43 100

72 27.1 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: 0.253 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. -0.00 min

Lab File: VN053659.D

Acq: 7 Feb 2019 16:47

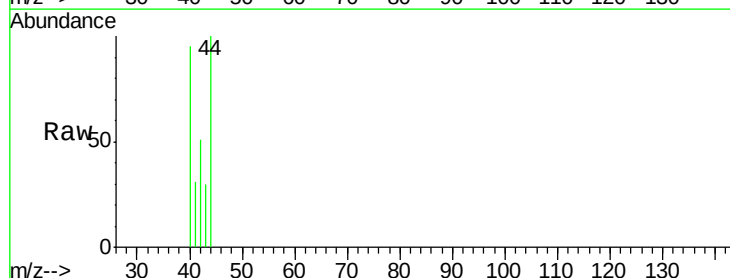
Tgt Ion: 42 Resp: 450

Ion Ratio Lower Upper

42 100

72 0.0 35.2 52.8#

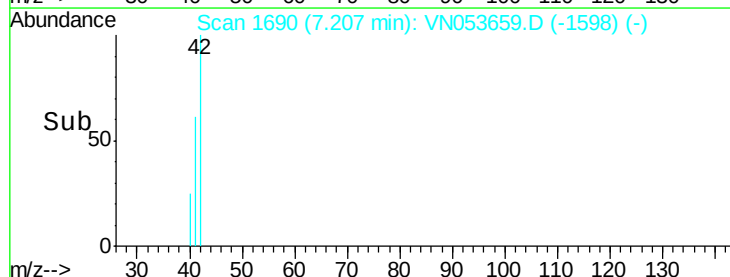
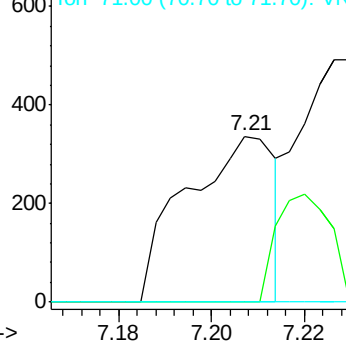
71 0.0 33.0 49.4#

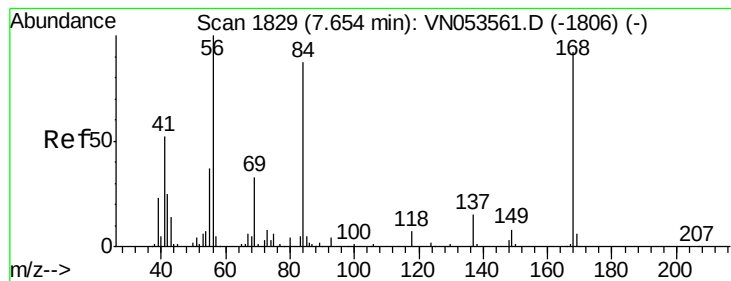


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0





#31

Cyclohexane

Concen: 0.648 ug/l

RT: 7.67 min Scan# 1833

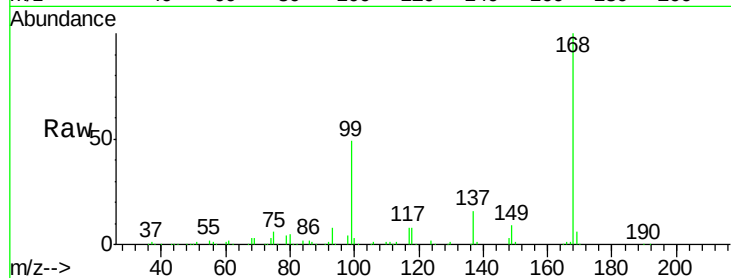
Delta R.T. 0.01 min

Lab File: VN053659.D

Acq: 7 Feb 2019 16:47

Tot Ion: 56 Resp: 10422

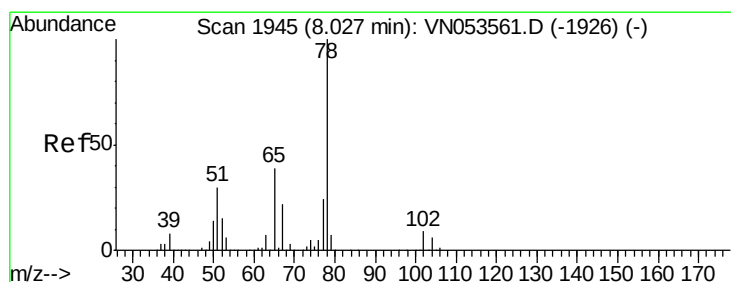
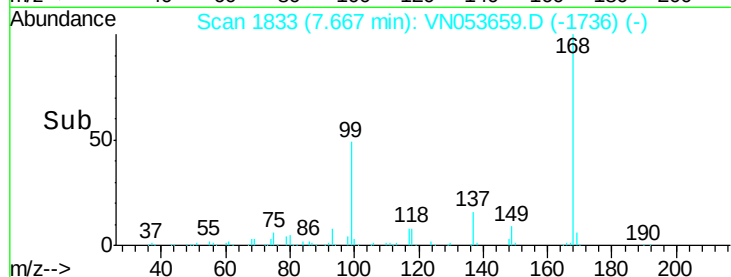
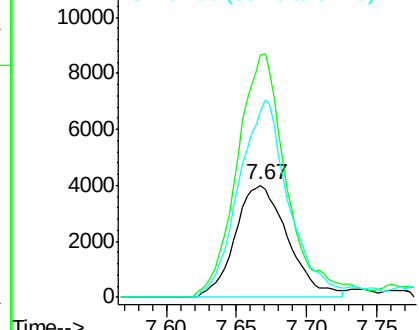
Ion	Ratio	Lower	Upper
56	100		
69	216.3	26.4	39.6#
84	166.2	67.9	101.9#



Abundance Ion 56.00 (55.70 to 56.70): VN053659.D (-1736) (-)

Ion 69.00 (68.70 to 69.70): VN053659.D (-1736) (-)

Ion 84.00 (83.70 to 84.70): VN053659.D (-1736) (-)



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1945

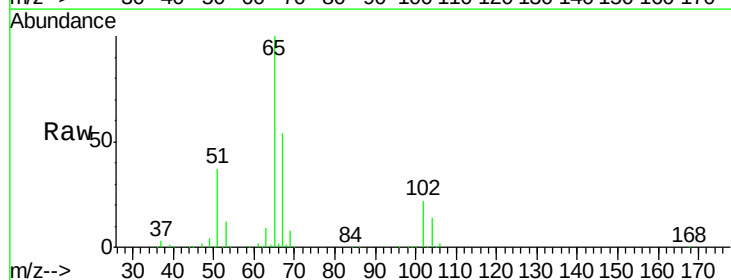
Delta R.T. 0.00 min

Lab File: VN053659.D

Acq: 7 Feb 2019 16:47

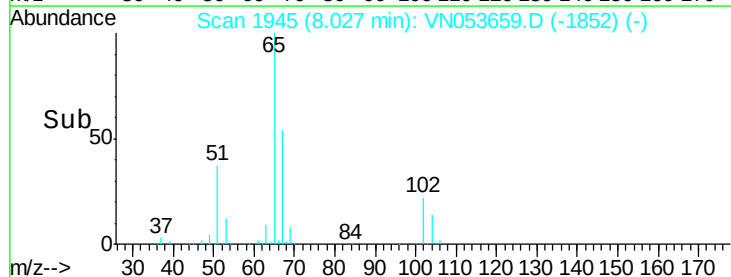
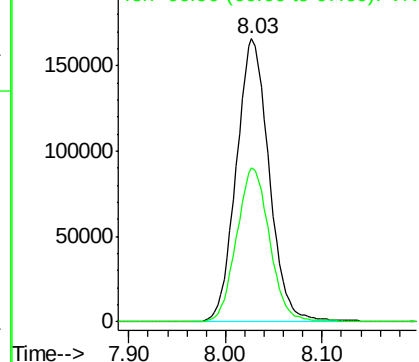
Tgt Ion: 65 Resp: 390969

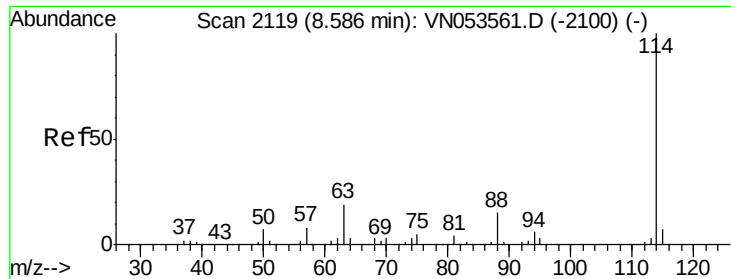
Ion	Ratio	Lower	Upper
65	100		
67	54.7	0.0	111.2



Abundance Ion 64.90 (64.60 to 65.60): VN053659.D (-1852) (-)

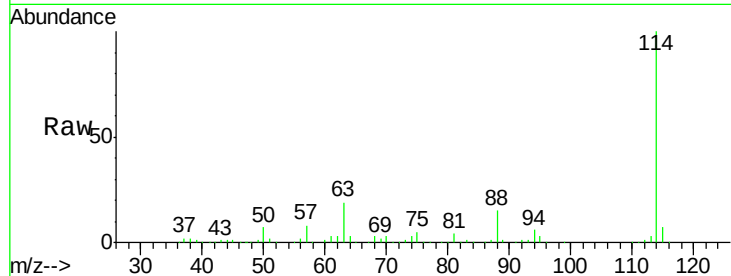
Ion 66.90 (66.60 to 67.60): VN053659.D (-1852) (-)



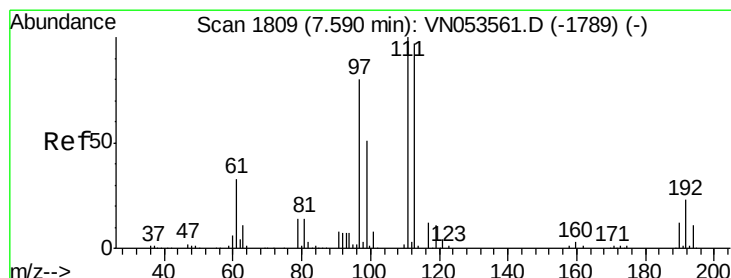
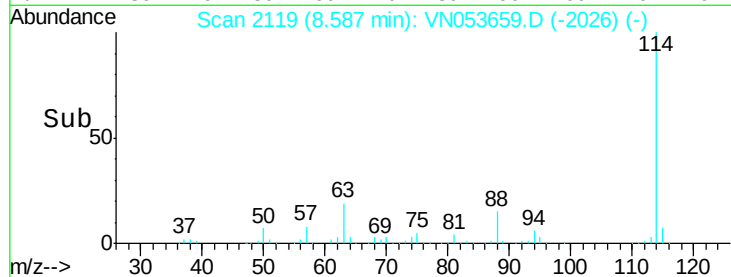
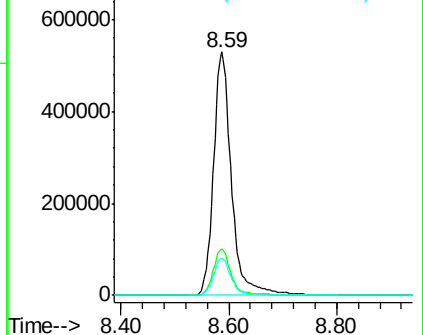


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053659.D
 Acq: 7 Feb 2019 16:47

Tot Ion:114 Resp: 1228190
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 38.6
 88 15.2 0.0 30.4

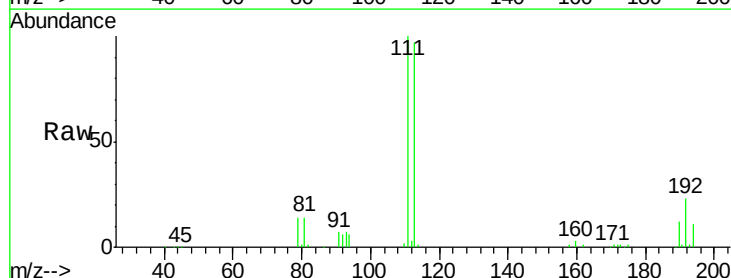


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

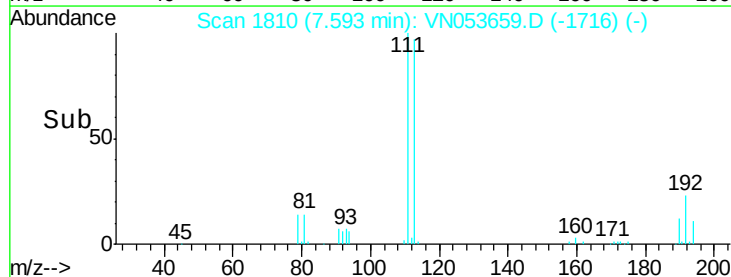
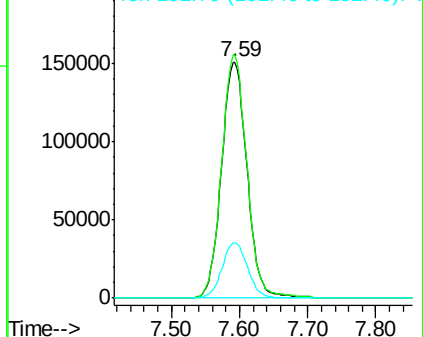


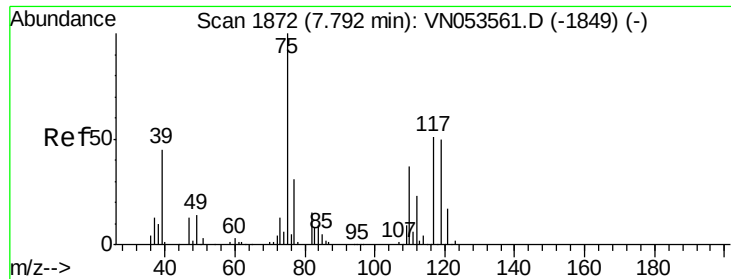
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053659.D
 Acq: 7 Feb 2019 16:47

Tgt Ion:113 Resp: 393275
 Ion Ratio Lower Upper
 113 100
 111 101.9 81.1 121.7
 192 23.4 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: 3.921 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN053659.D

Acq: 7 Feb 2019 16:47

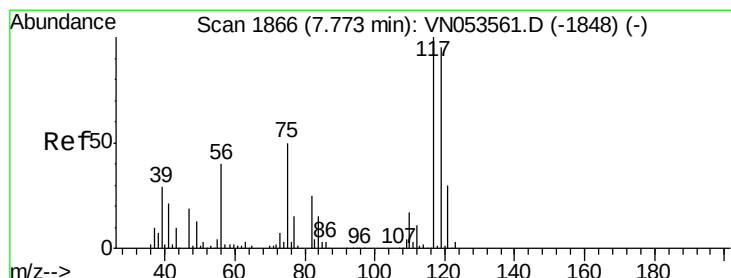
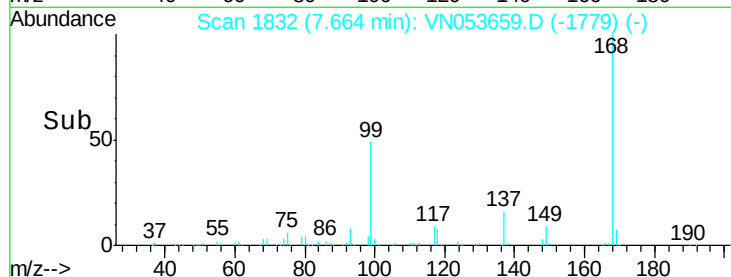
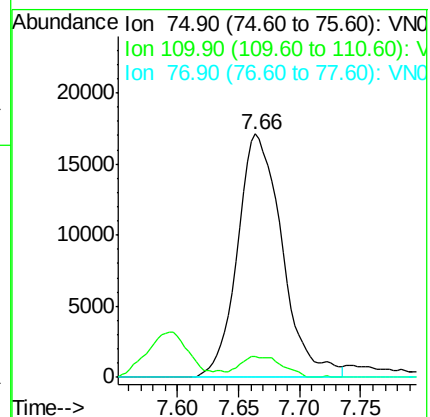
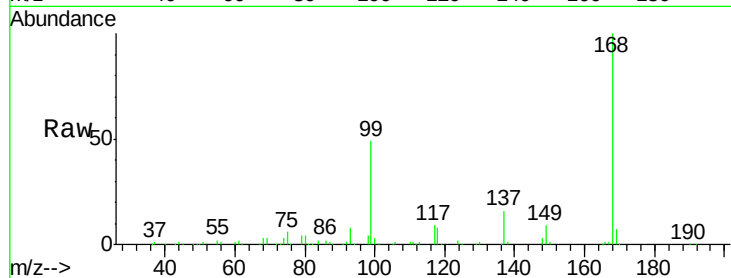
Tot Ion: 75 Resp: 43407

Ion Ratio Lower Upper

75 100

110 8.2 18.1 54.3#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 5.384 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053659.D

Acq: 7 Feb 2019 16:47

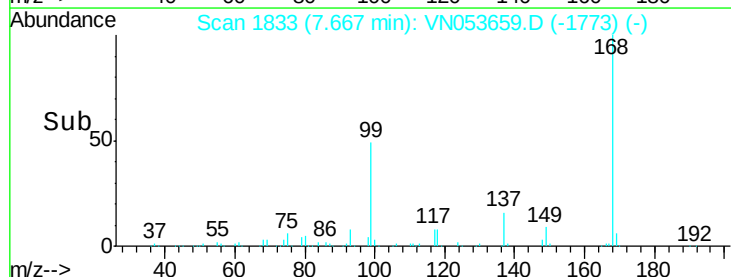
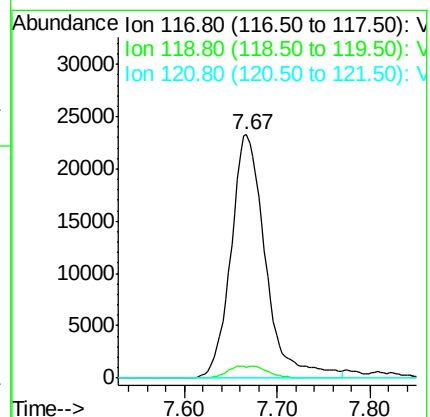
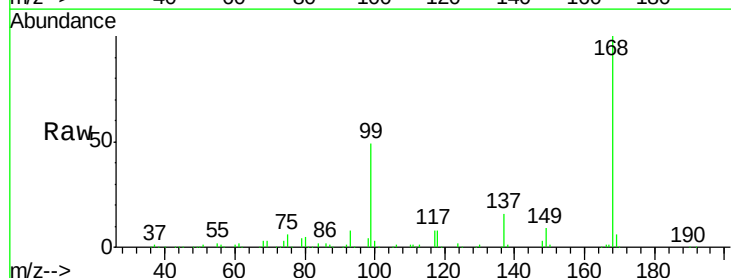
Tgt Ion: 117 Resp: 60048

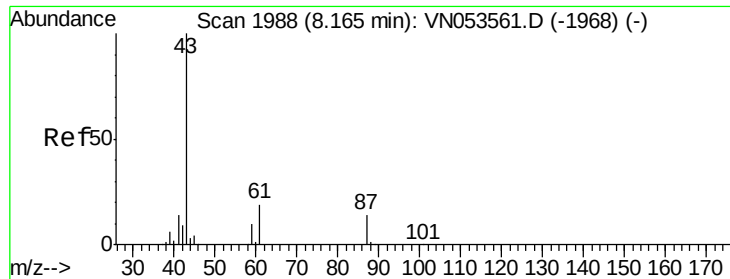
Ion Ratio Lower Upper

117 100

119 4.6 77.2 115.8#

121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 20.893 ug/l

RT: 8.27 min Scan# 2022

Delta R.T. 0.11 min

Lab File: VN053659.D

Acq: 7 Feb 2019 16:47

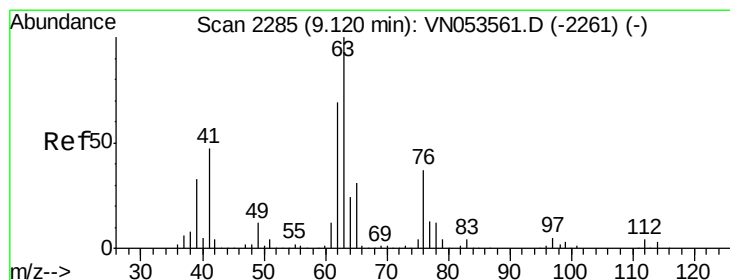
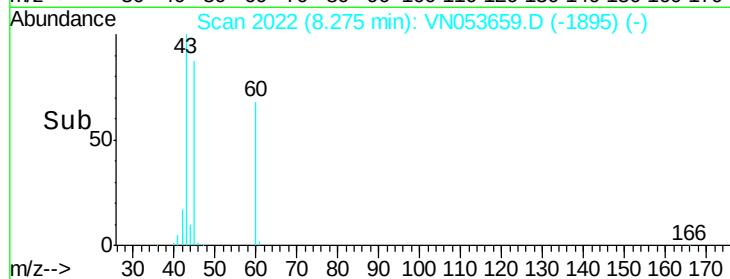
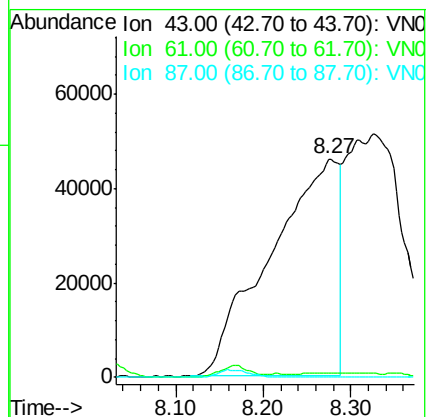
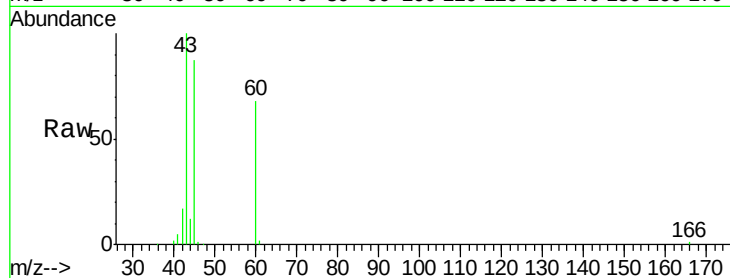
Tot Ion: 43 Resp: 249498

Ion Ratio Lower Upper

43 100

61 0.2 23.9 35.9#

87 0.0 11.0 16.6#



#45

1,2-Dichloropropane

Concen: 0.249 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN053659.D

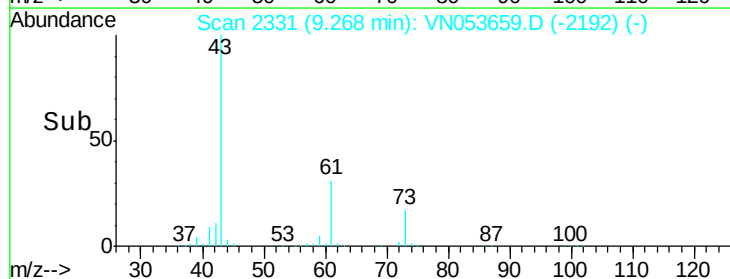
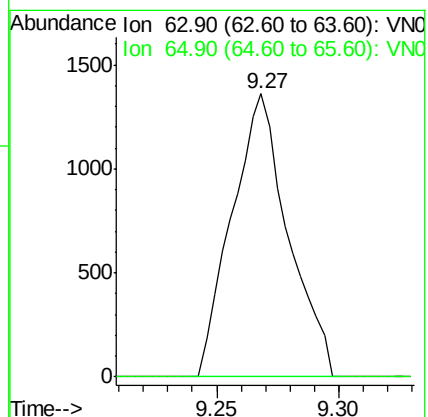
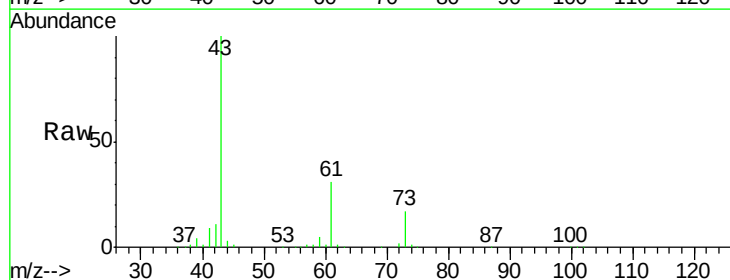
Acq: 7 Feb 2019 16:47

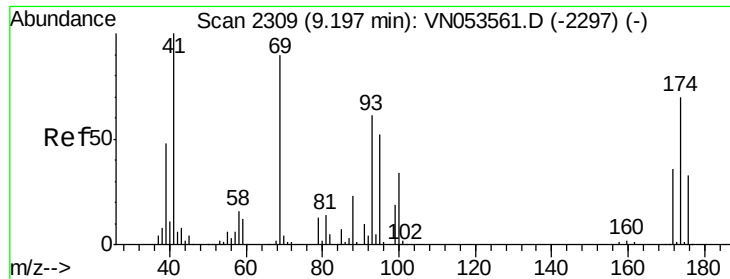
Tgt Ion: 63 Resp: 2171

Ion Ratio Lower Upper

63 100

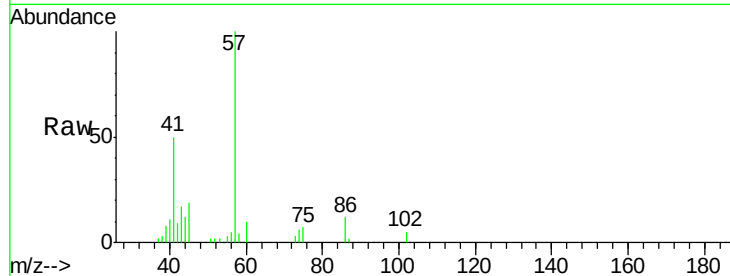
65 0.0 25.0 37.4#



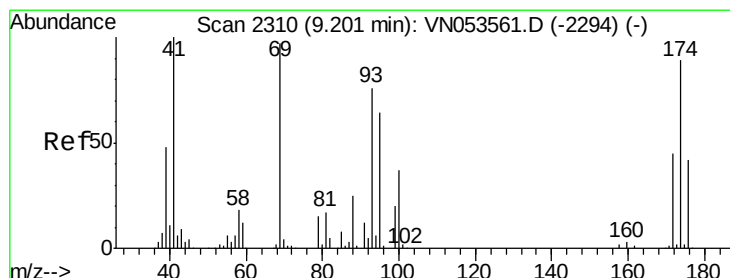
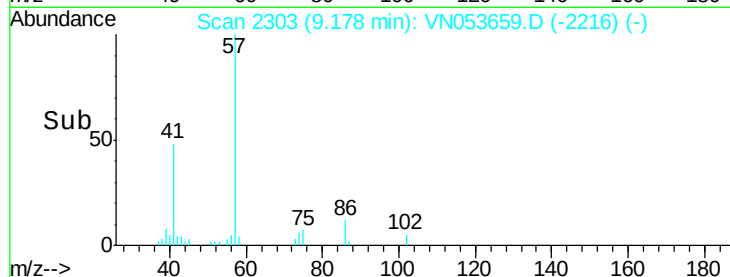
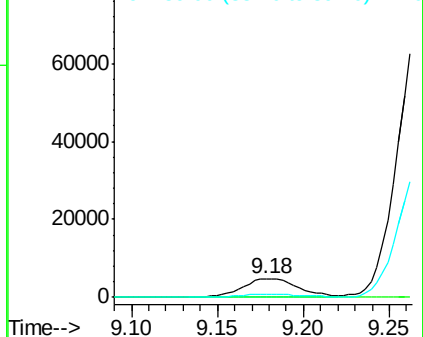


#48
Methvl methacrylate
Concen: 1.914 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053659.D
Acq: 7 Feb 2019 16:47

Tot Ion: 41 Resp: 10909
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#

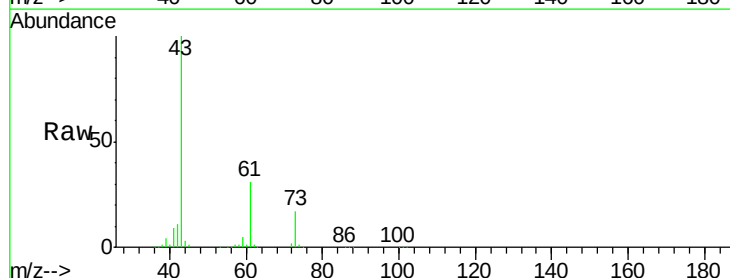


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

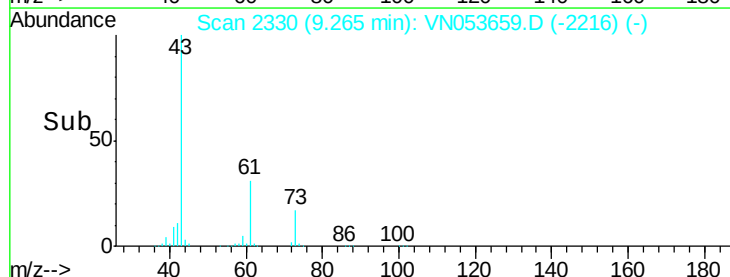
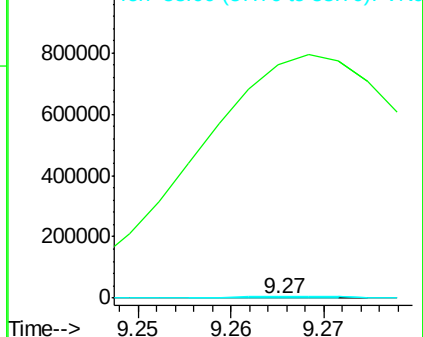


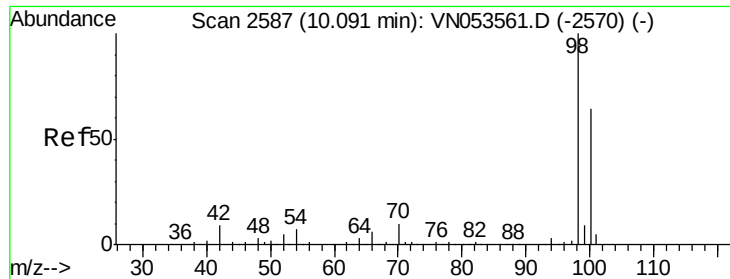
#49
1,4-Dioxane
Concen: 39.819 ug/l
RT: 9.27 min Scan# 2330
Delta R.T. 0.07 min
Lab File: VN053659.D
Acq: 7 Feb 2019 16:47

Tgt Ion: 88 Resp: 62
Ion Ratio Lower Upper
88 100
43 2654604.8 27.8 41.6#
58 13608.1 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: 39.819 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053659.D

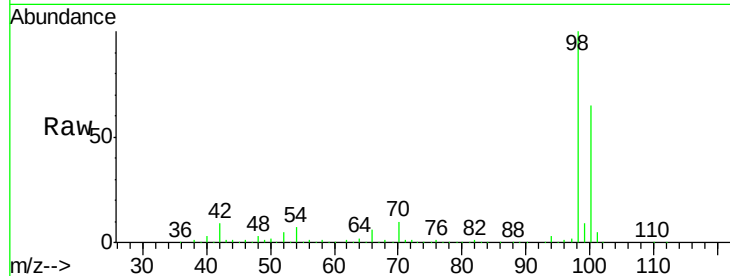
Acq: 7 Feb 2019 16:47

Tot Ion: 98 Resp: 1465887

Ion Ratio Lower Upper

98 100

100 65.0 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) (-)

10.09

800000

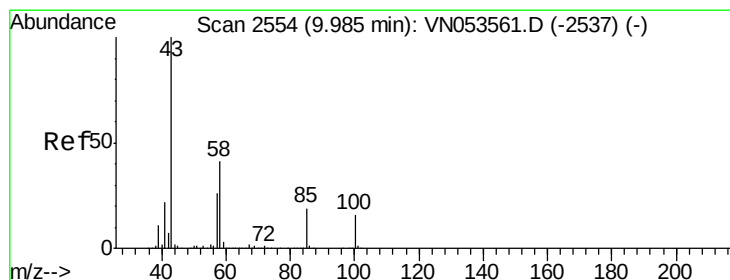
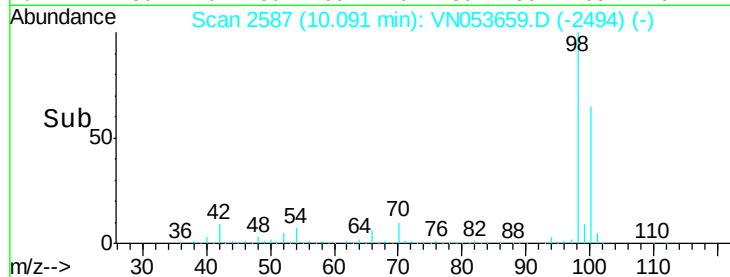
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.645 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN053659.D

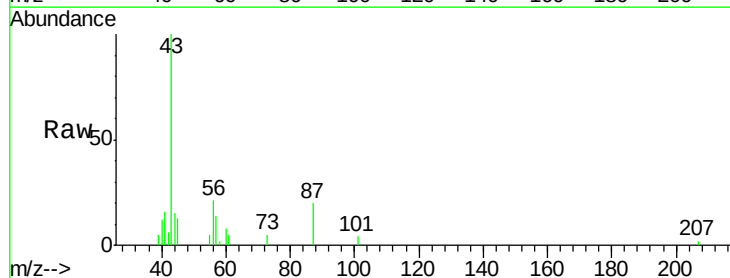
Acq: 7 Feb 2019 16:47

Tgt Ion: 43 Resp: 9651

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN053561.D (-2537) (-)

10.03

8000

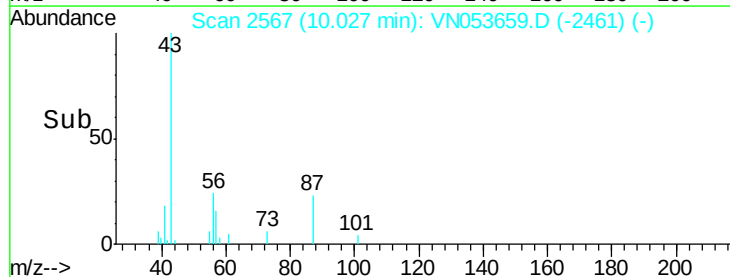
6000

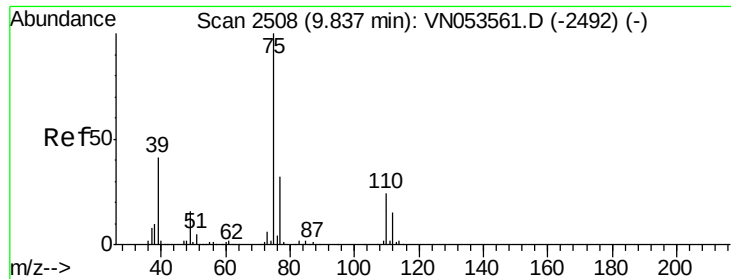
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.730 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053659.D

Acq: 7 Feb 2019 16:47

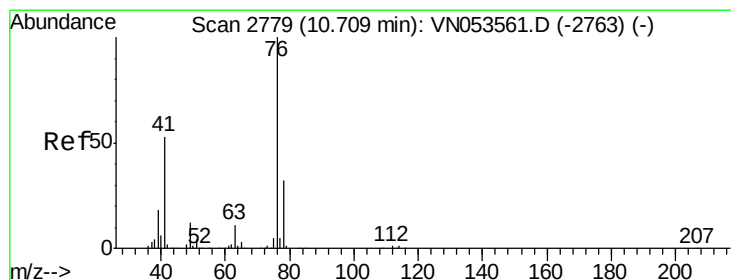
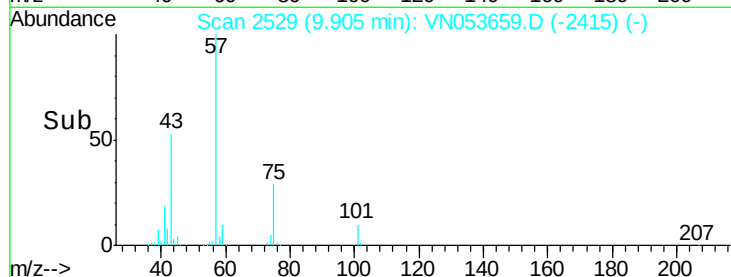
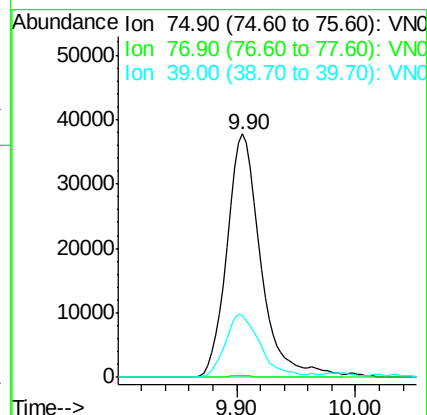
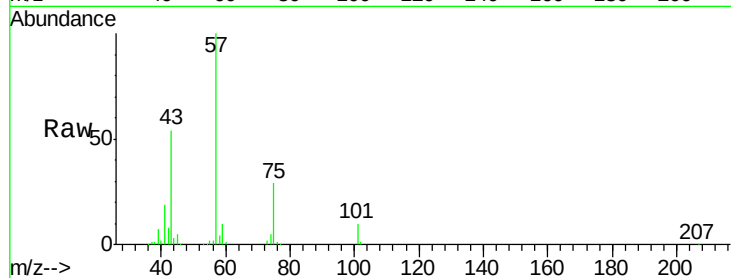
Tot Ion: 75 Resp: 74416

Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.6#

39 25.4 33.4 50.0#



#57

1,3-Dichloropropane

Concen: 1.204 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053659.D

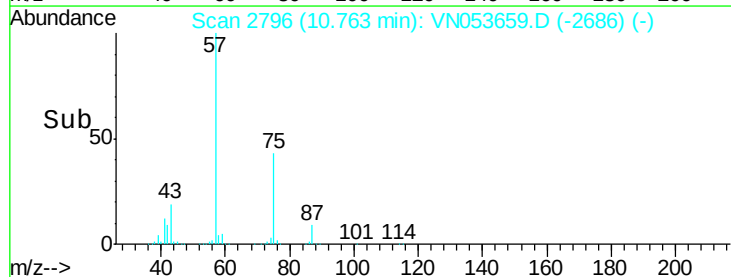
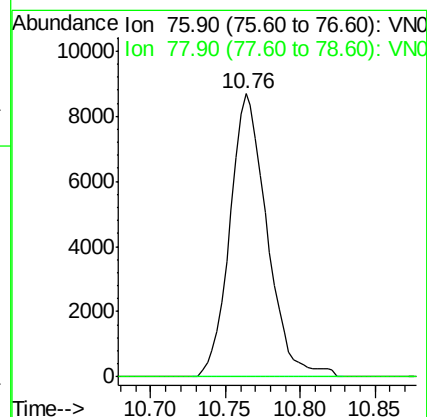
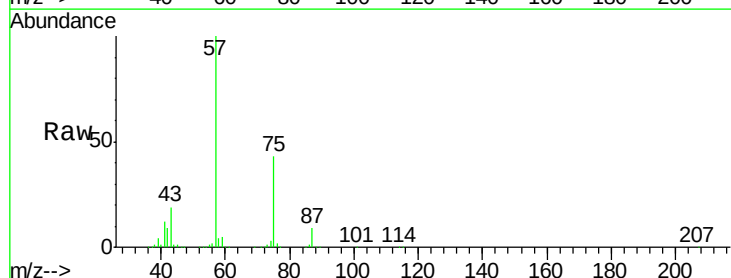
Acq: 7 Feb 2019 16:47

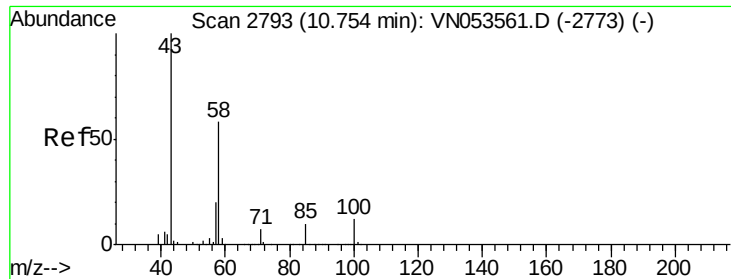
Tgt Ion: 76 Resp: 15023

Ion Ratio Lower Upper

76 100

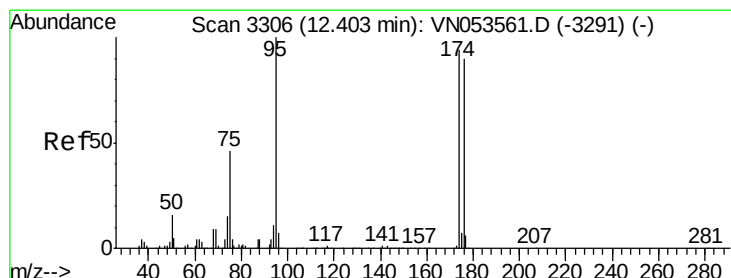
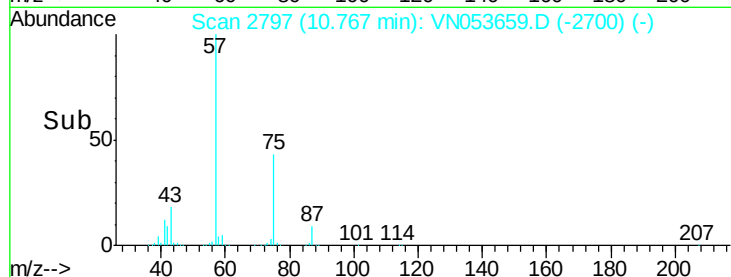
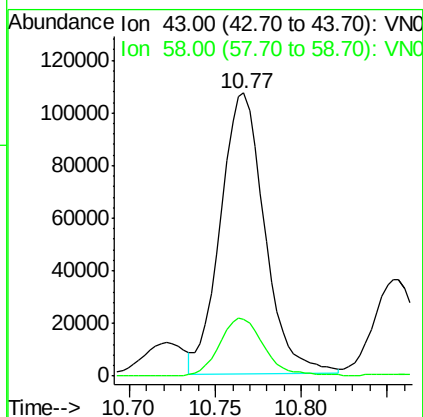
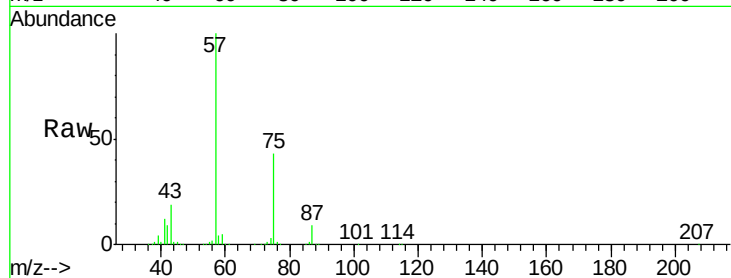
78 0.0 25.6 38.4#





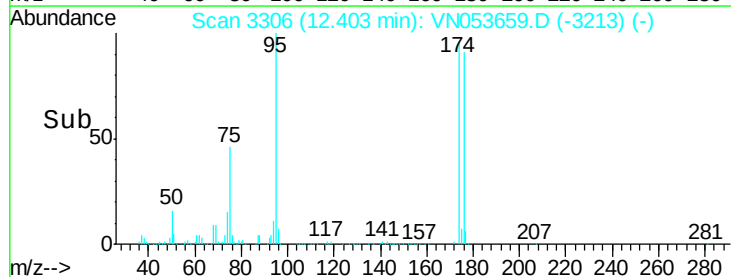
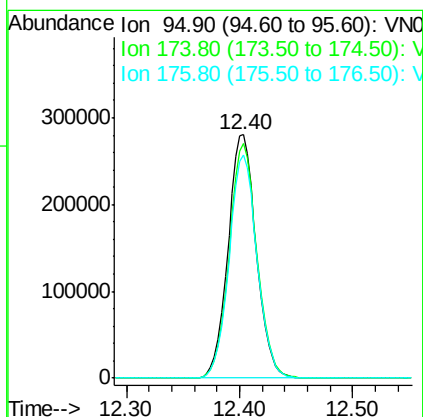
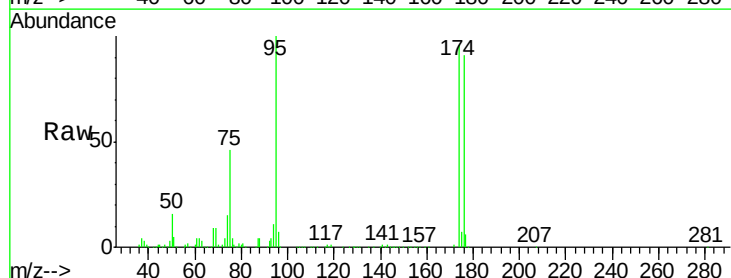
#59
2-Hexanone
Concen: 47.977 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN053659.D
Acq: 7 Feb 2019 16:47

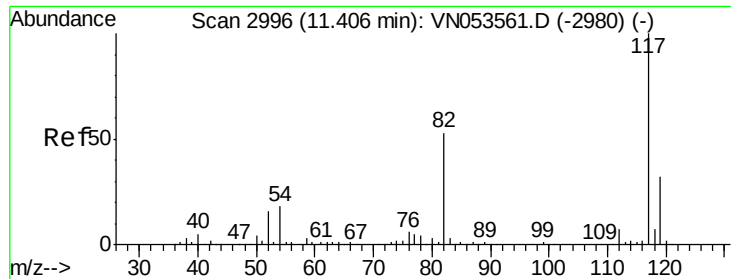
Tot Ion: 43 Resp: 191123
Ion Ratio Lower Upper
43 100
58 21.0 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053659.D
Acq: 7 Feb 2019 16:47

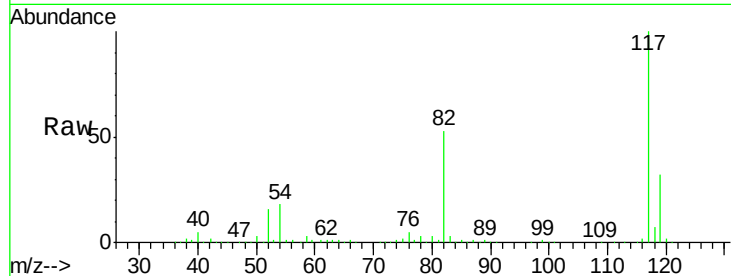
Tgt Ion: 95 Resp: 484132
Ion Ratio Lower Upper
95 100
174 94.8 0.0 183.2
176 90.9 0.0 177.4



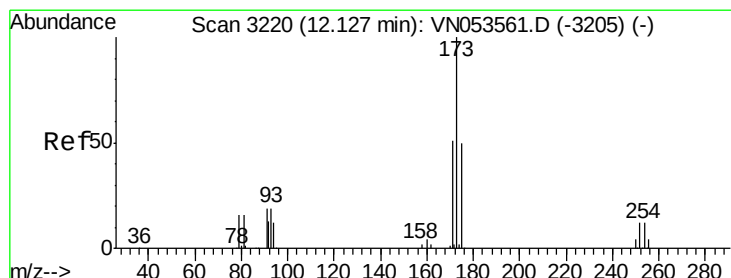
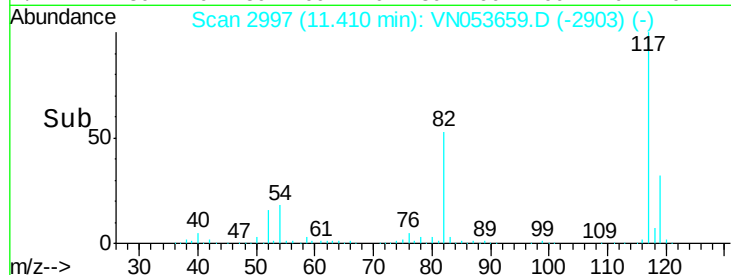
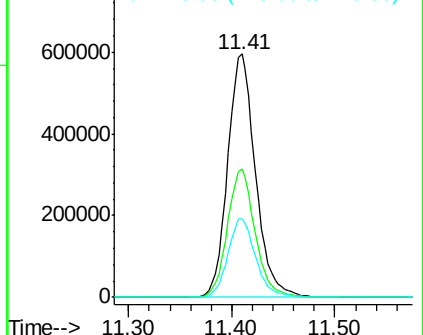


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053659.D
Acq: 7 Feb 2019 16:47

Tot Ion:117 Resp: 1118165
Ion Ratio Lower Upper
117 100
82 52.8 42.9 64.3
119 32.5 26.0 39.0

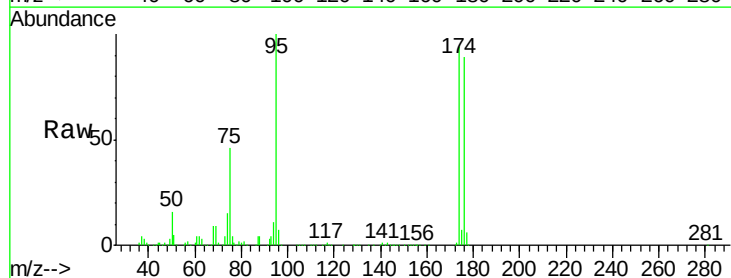


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

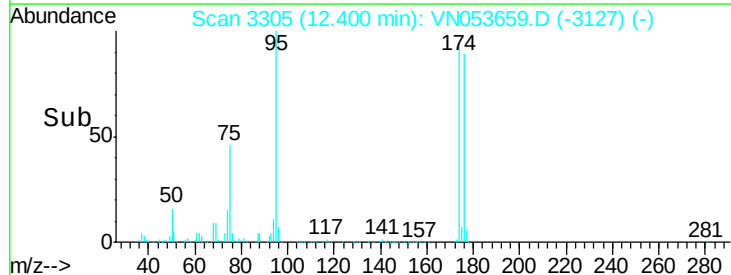
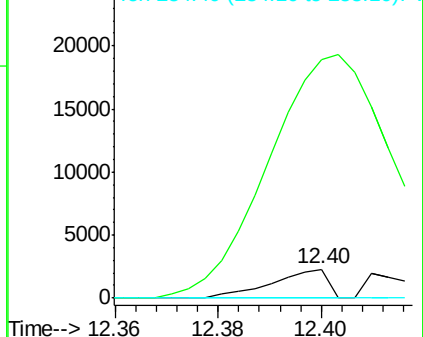


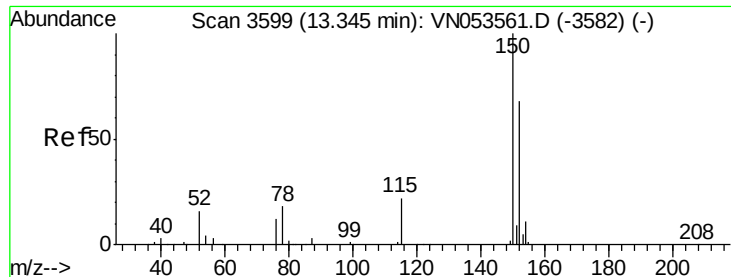
#71
Bromoform
Concen: 0.296 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053659.D
Acq: 7 Feb 2019 16:47

Tgt Ion:173 Resp: 1684
Ion Ratio Lower Upper
173 100
175 1669.7 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

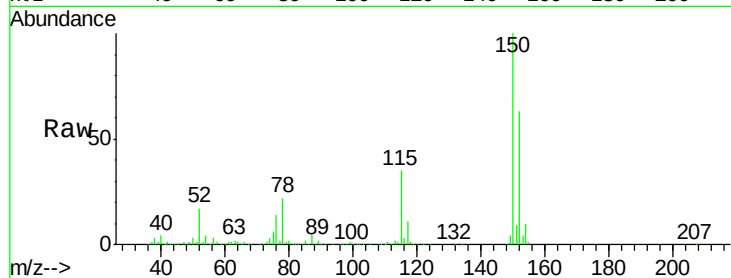




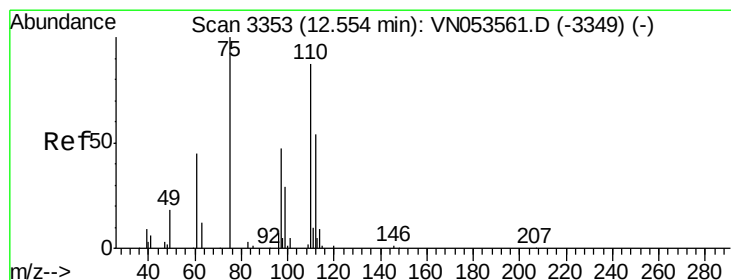
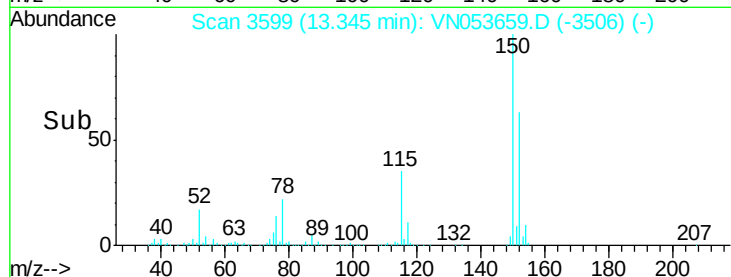
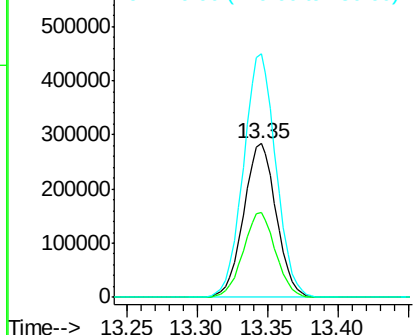
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053659.D
Acq: 7 Feb 2019 16:47

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.7	27.8	83.4
150	157.8	0.0	349.0



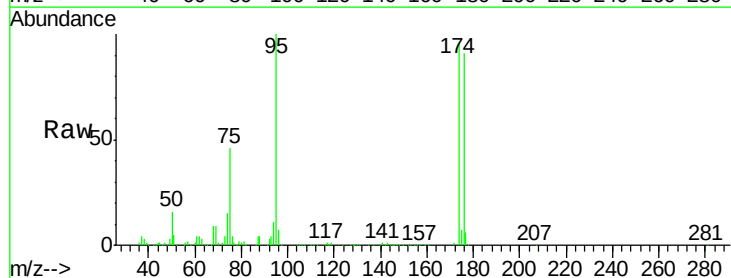
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



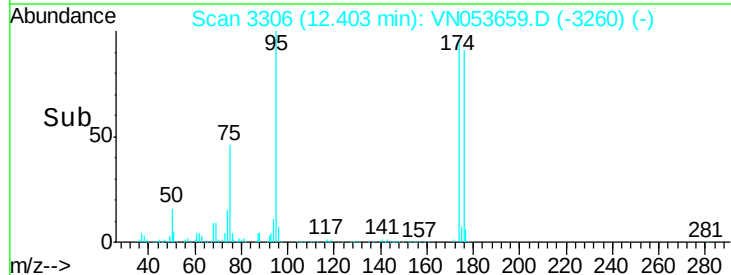
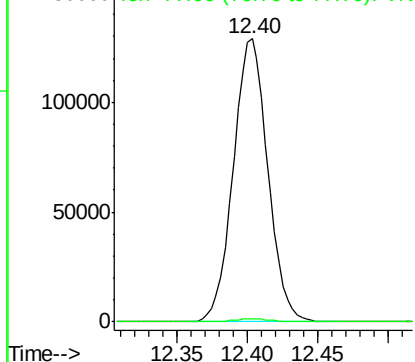
#76

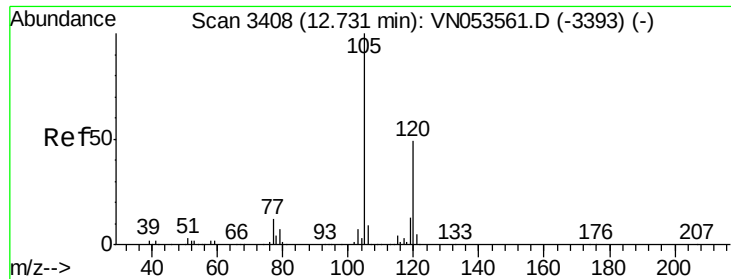
1,2,3-Trichloropropane
Concen: 37.348 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN053659.D
Acq: 7 Feb 2019 16:47

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	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: 0.265 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053659.D

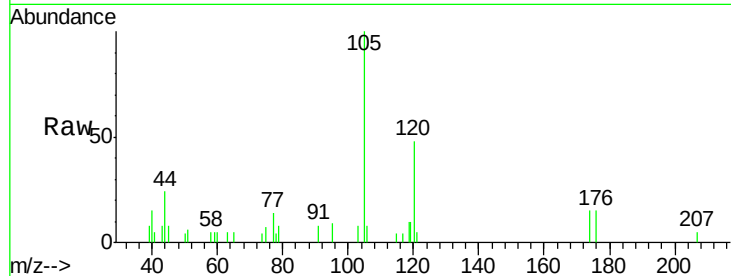
Acq: 7 Feb 2019 16:47

Tot Ion: 105 Resp: 7111

Ion Ratio Lower Upper

105 100

120 46.3 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

4000

3000

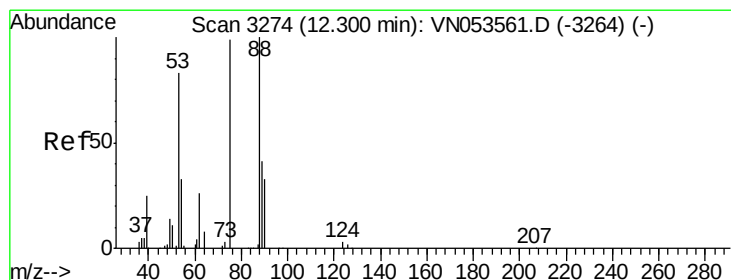
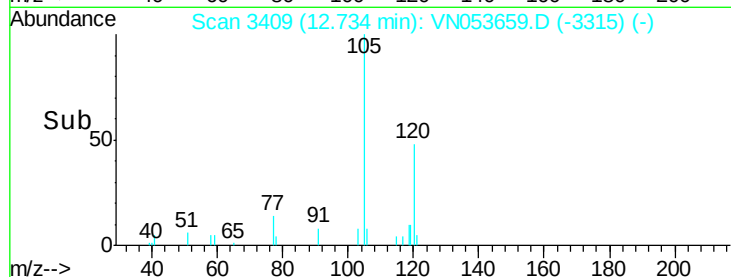
2000

1000

0

Time-->

12.70 12.75



#81

trans-1,4-Dichloro-2-butene

Concen: 105.019 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN053659.D

Acq: 7 Feb 2019 16:47

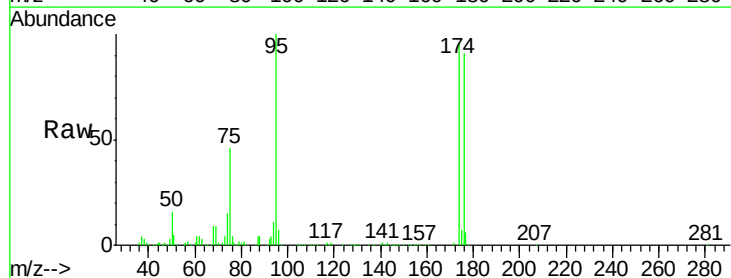
Tgt Ion: 75 Resp: 220636

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

12.40

150000

100000

50000

0

Time-->

12.35 12.40 12.45

