

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022219\
 Data File : VN053908.D
 Acq On : 22 Feb 2019 11:45
 Operator : JC/SP
 Sample : PB117291TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 22 22:12:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022019W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 21 03:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	637611	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1129574	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	961434	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	344517	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	354619	54.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.84%	
35) Dibromofluoromethane	7.59	113	360473	48.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.26%	
50) Toluene-d8	10.09	98	1335007	49.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.72%	
62) 4-Bromofluorobenzene	12.40	95	396132	44.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.62%	

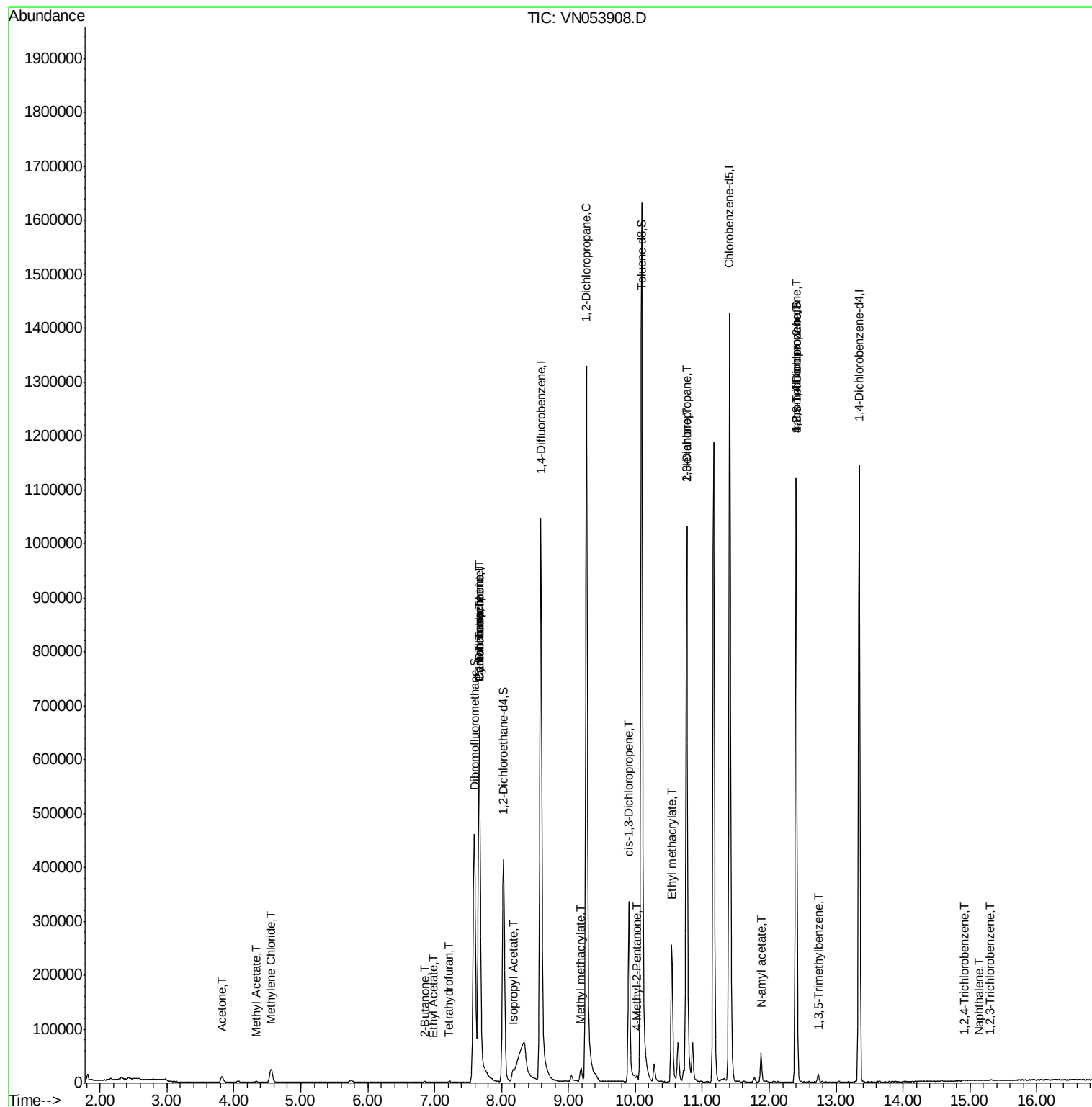
Target Compounds

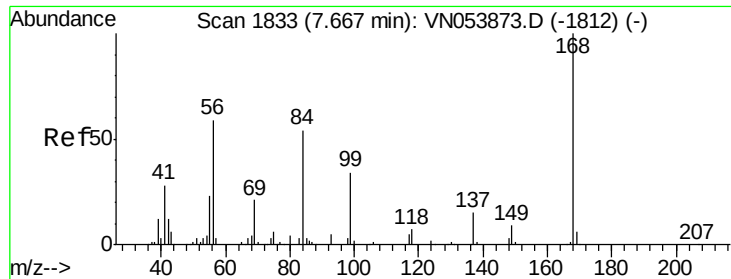
					Qvalue
16) Acetone	3.82	43	19285	10.761	ug/l 98
18) Methyl Acetate	4.33	43	1734	0.410	ug/l 100
20) Methylene Chloride	4.55	84	10323	1.539	ug/l 98
25) 2-Butanone	6.84	43	1799	0.778	ug/l # 89
29) Tetrahydrofuran	7.21	42	665	0.445	ug/l # 62
31) Cyclohexane	7.67	56	9065	0.341	ug/l # 1
36) 1,1-Dichloropropene	7.67	75	39734	3.838	ug/l # 47
37) Ethyl Acetate	6.97	43	143	0.242	ug/l # 67
38) Carbon Tetrachloride	7.67	117	53632	5.185	ug/l # 16
41) Methacrylonitrile	7.21	41	365	Below Cal	# 100
43) Isopropyl Acetate	8.17	43	27100	2.454	ug/l 98
45) 1,2-Dichloropropane	9.27	63	1796	0.230	ug/l # 44
48) Methyl methacrylate	9.18	41	8509	1.797	ug/l # 12
51) 4-Methyl-2-Pentanone	10.02	43	7791	7.858	ug/l # 34
54) cis-1,3-Dichloropropene	9.90	75	71675	6.309	ug/l # 63
56) Ethyl methacrylate	10.54	69	1319	2.613	ug/l # 1
57) 1,3-Dichloropropane	10.77	76	12183	1.091	ug/l # 43
59) 2-Hexanone	10.76	43	154499	44.589	ug/l # 50
74) N-amyl acetate	11.88	43	16817	3.017	ug/l # 49
76) 1,2,3-Trichloropropane	12.40	75	180959	35.780	ug/l # 100
80) 1,3,5-Trimethylbenzene	12.73	105	7403	0.367	ug/l 91
81) trans-1,4-Dichloro-2-buten	12.40	75	180959	118.121	ug/l # 15
93) 1,2,4-Trichlorobenzene	14.90	180	394	2.982	ug/l 73
95) Naphthalene	15.13	128	1054	4.682	ug/l # 70
96) 1,2,3-Trichlorobenzene	15.32	180	501	2.638	ug/l 93

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

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QLast Update : Thu Feb 21 03:36:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053908.D

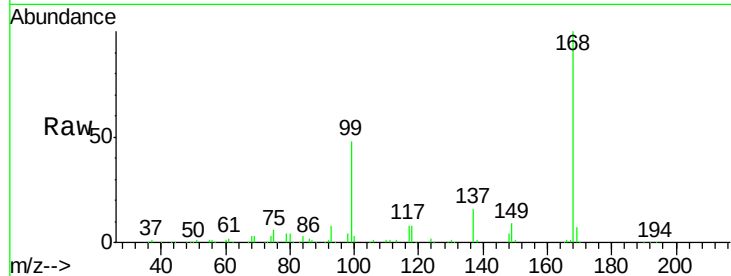
Acq: 22 Feb 2019 11:45

Tot Ion:168 Resp: 637611

Ion Ratio Lower Upper

168 100

99 48.0 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

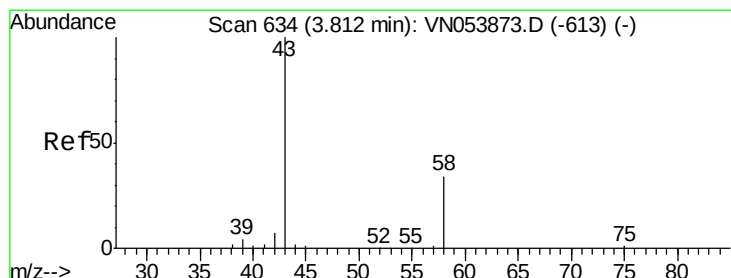
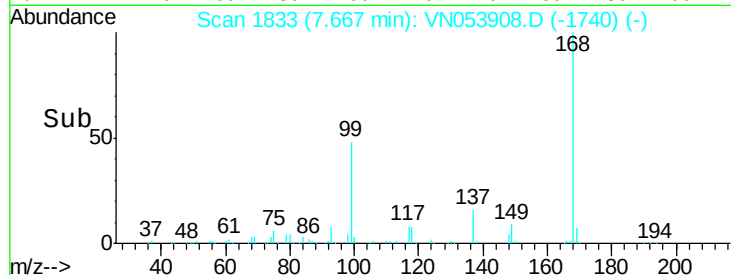
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 10.761 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053908.D

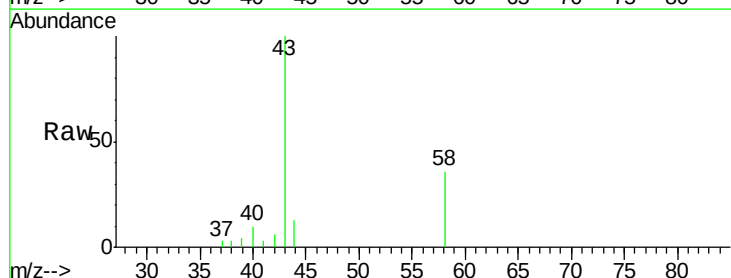
Acq: 22 Feb 2019 11:45

Tgt Ion: 43 Resp: 19285

Ion Ratio Lower Upper

43 100

58 35.8 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.82

8000

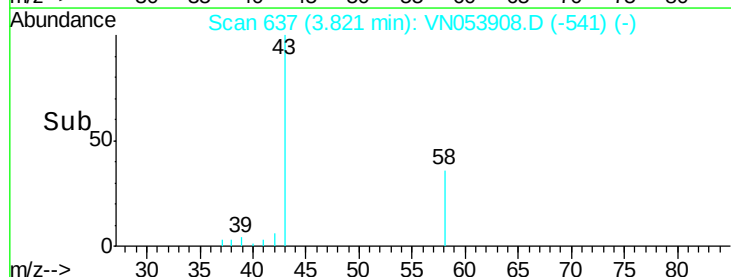
6000

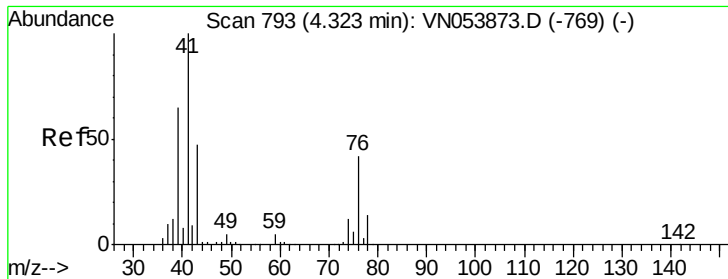
4000

2000

0

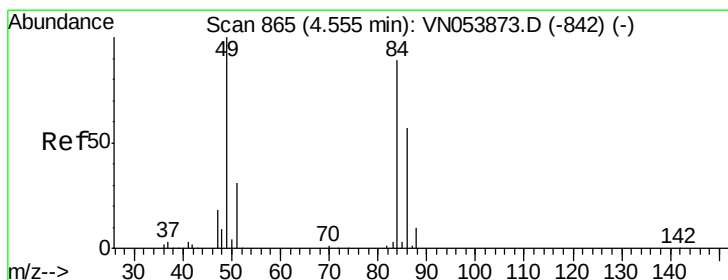
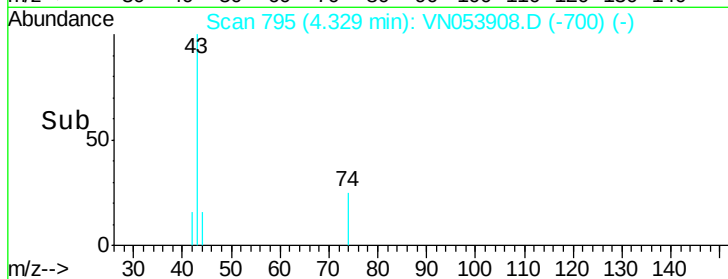
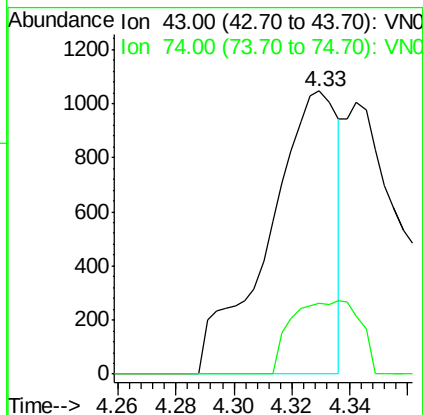
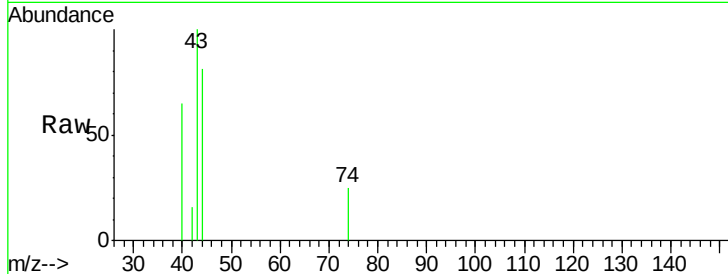
Time-->





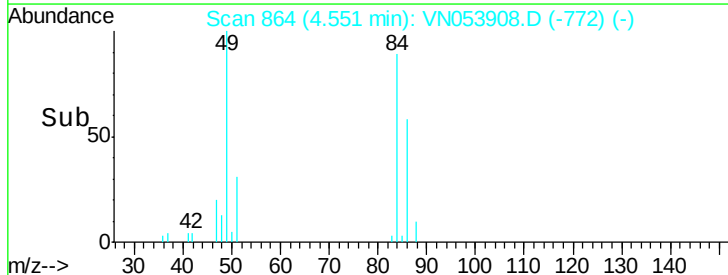
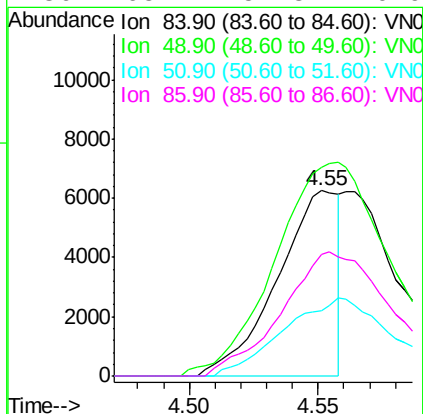
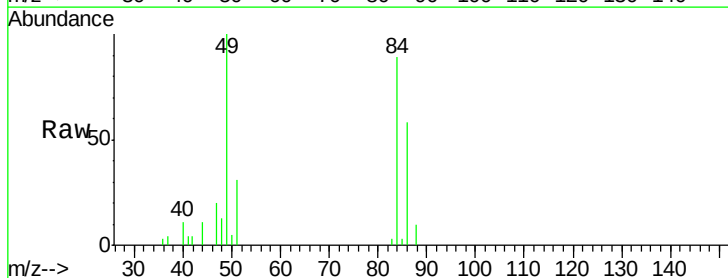
#18
Methyl Acetate
Concen: 0.410 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN053908.D
Acq: 22 Feb 2019 11:45

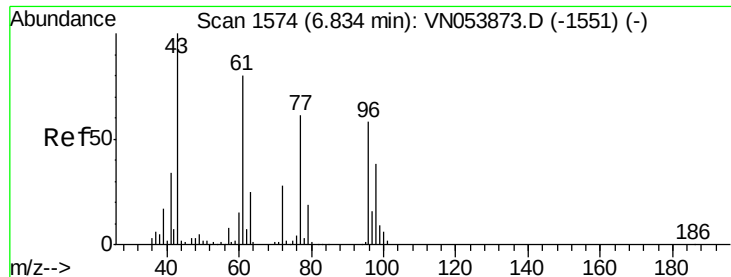
Tot Ion: 43 Resp: 1734
Ion Ratio Lower Upper
43 100
74 25.6 20.5 30.7



#20
Methylene Chloride
Concen: 1.539 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN053908.D
Acq: 22 Feb 2019 11:45

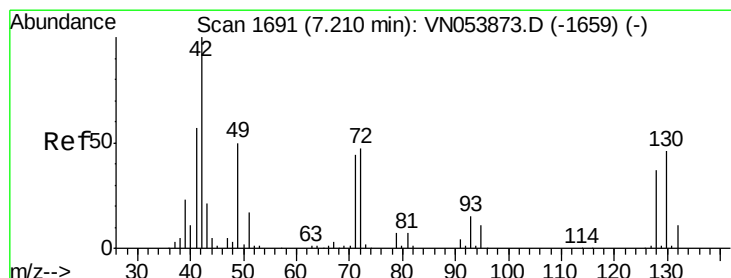
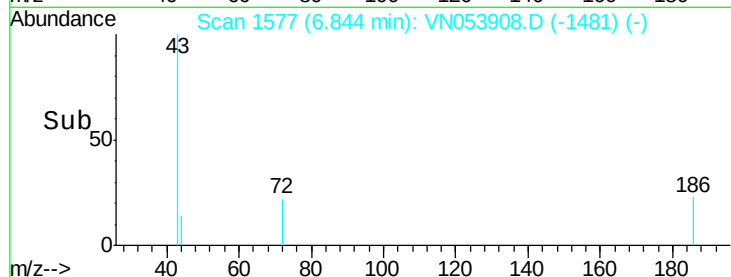
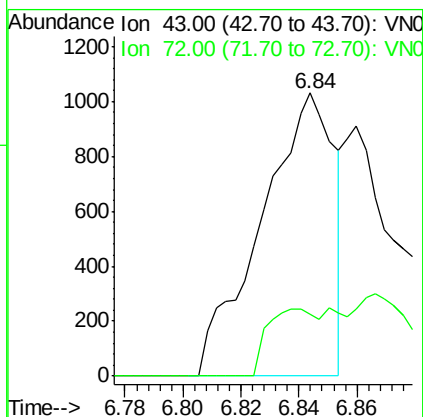
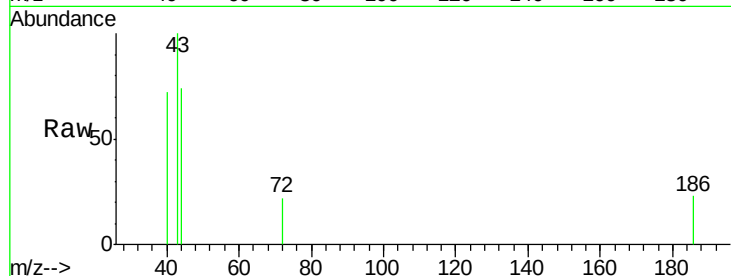
Tgt Ion: 84 Resp: 10323
Ion Ratio Lower Upper
84 100
49 109.3 89.7 134.5
51 35.4 27.8 41.8
86 65.7 51.3 76.9





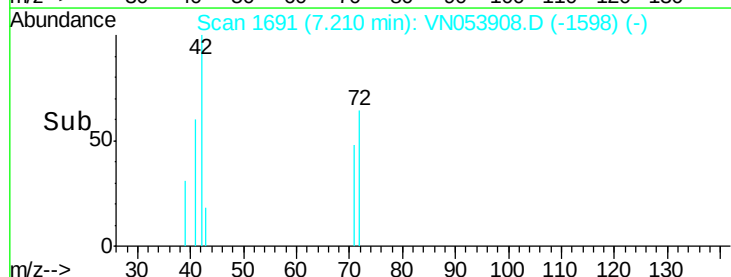
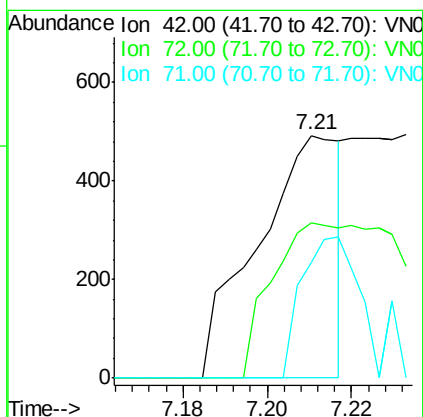
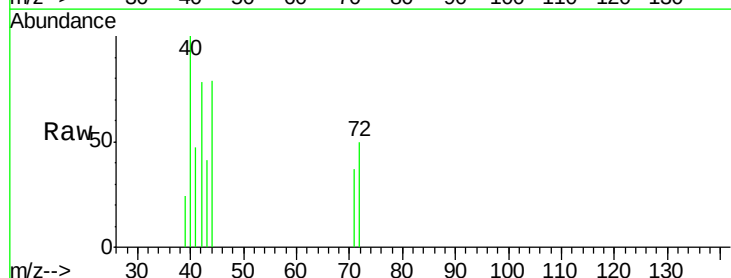
#25
2-Butanone
Concen: 0.778 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053908.D
Acq: 22 Feb 2019 11:45

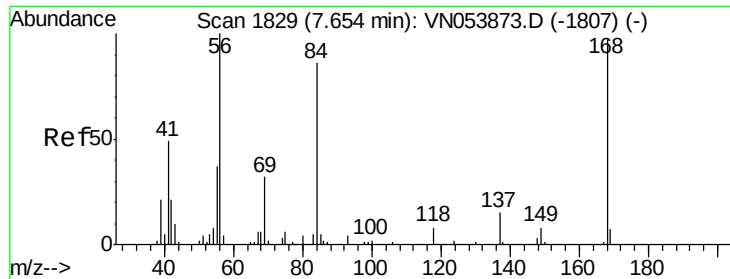
Tot Ion: 43 Resp: 1799
Ion Ratio Lower Upper
43 100
72 21.8 22.1 33.1#



#29
Tetrahydrofuran
Concen: 0.445 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN053908.D
Acq: 22 Feb 2019 11:45

Tgt Ion: 42 Resp: 665
Ion Ratio Lower Upper
42 100
72 94.3 36.9 55.3#
71 44.2 34.6 52.0





#31

Cyclohexane

Concen: 0.341 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053908.D

Acq: 22 Feb 2019 11:45

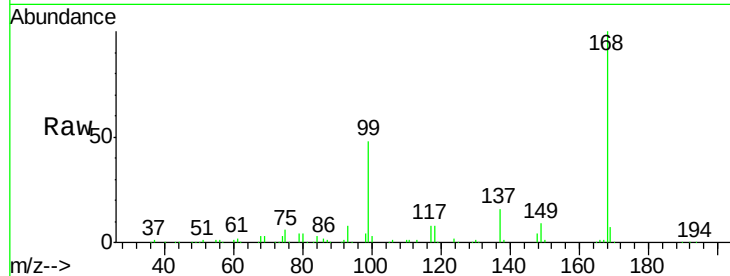
Tot Ion: 56 Resp: 9065

Ion Ratio Lower Upper

56 100

69 206.8 26.0 39.0#

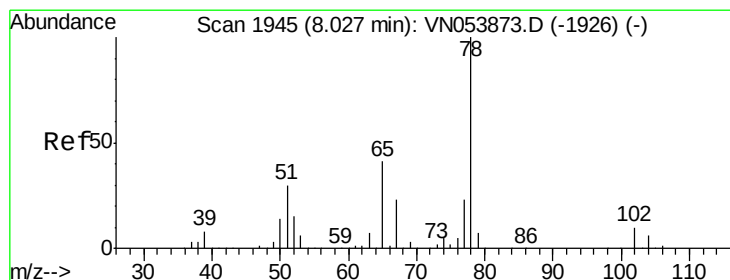
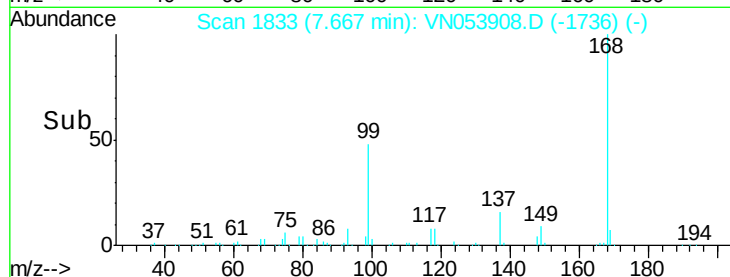
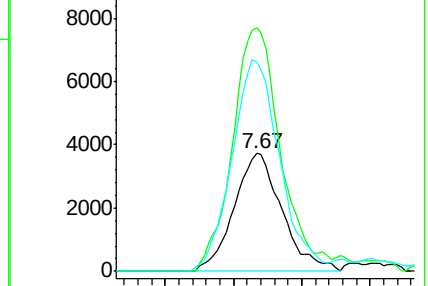
84 177.2 69.1 103.7#



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: 54.420 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN053908.D

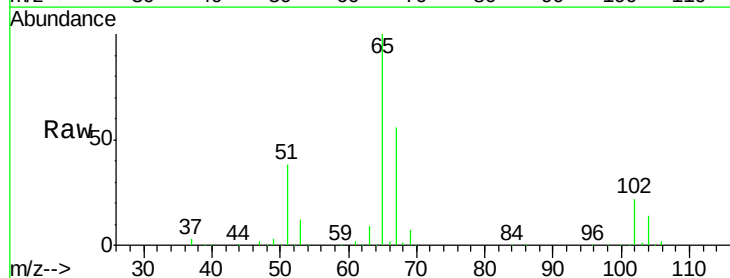
Acq: 22 Feb 2019 11:45

Tgt Ion: 65 Resp: 354619

Ion Ratio Lower Upper

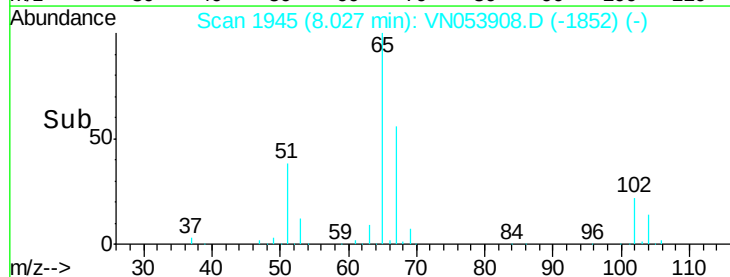
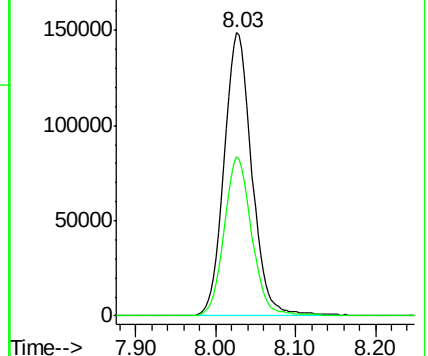
65 100

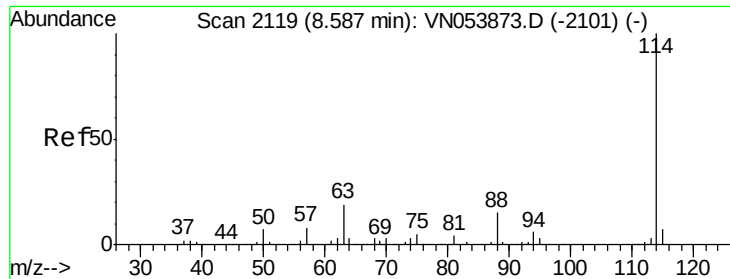
67 55.8 0.0 111.8



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: VN053908.D

Acq: 22 Feb 2019 11:45

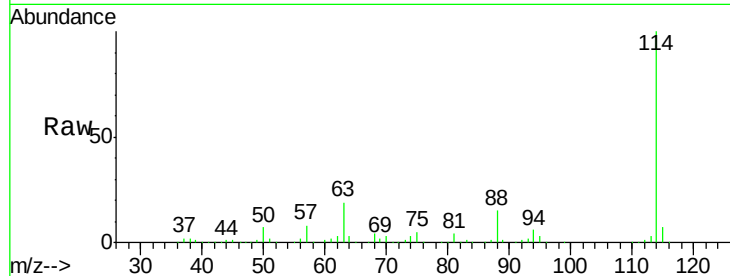
Tot Ion:114 Resp: 1129574

Ion Ratio Lower Upper

114 100

63 18.7 0.0 37.4

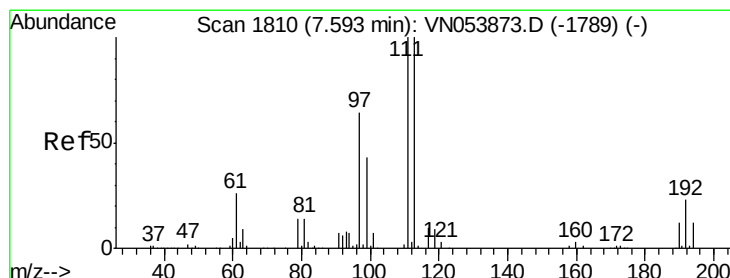
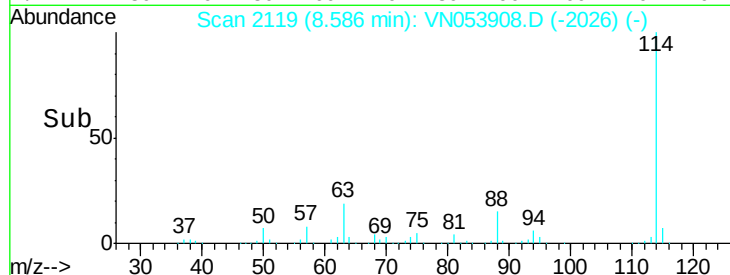
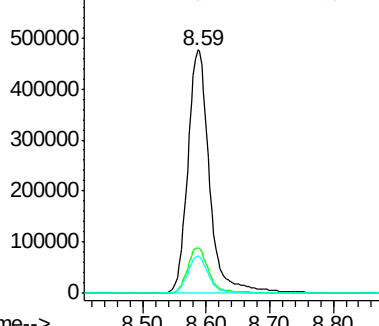
88 15.4 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VNO

Ion 87.90 (87.60 to 88.60): VNO



#35

Dibromofluoromethane

Concen: 48.626 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN053908.D

Acq: 22 Feb 2019 11:45

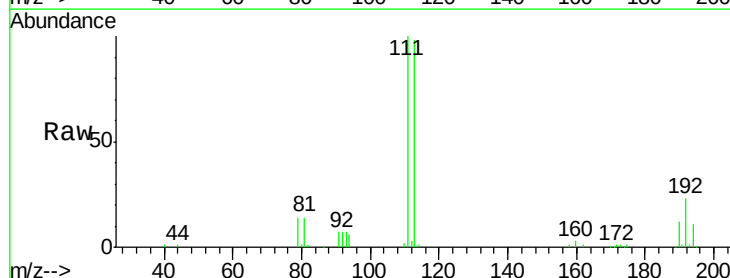
Tgt Ion:113 Resp: 360473

Ion Ratio Lower Upper

113 100

111 103.9 81.1 121.7

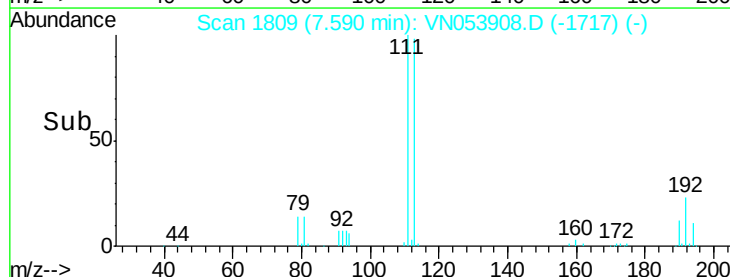
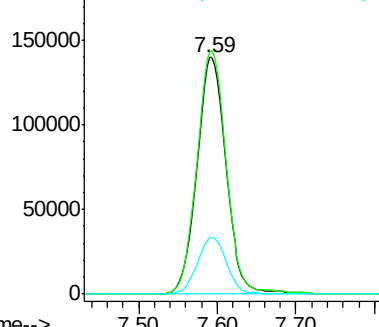
192 23.9 18.8 28.2

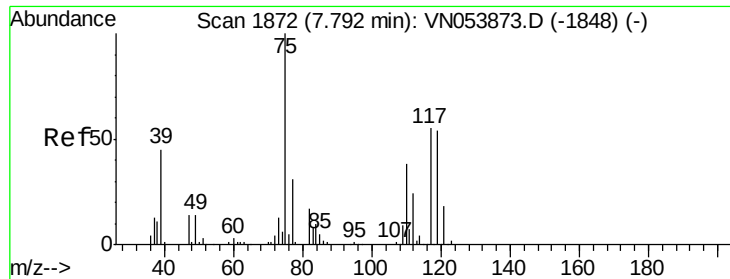


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.838 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053908.D

Acq: 22 Feb 2019 11:45

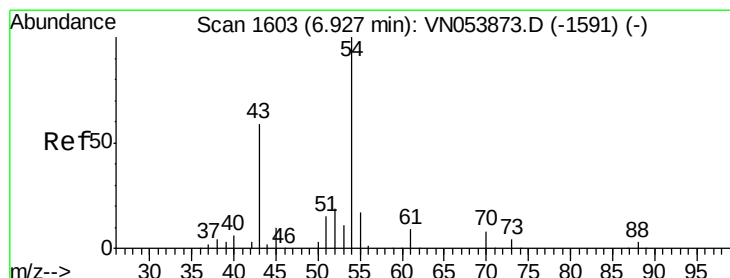
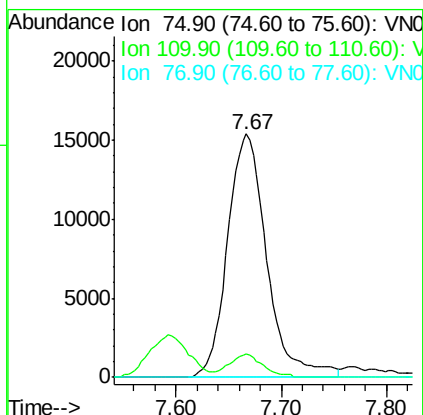
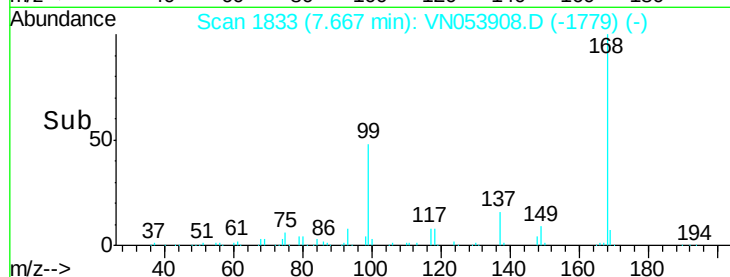
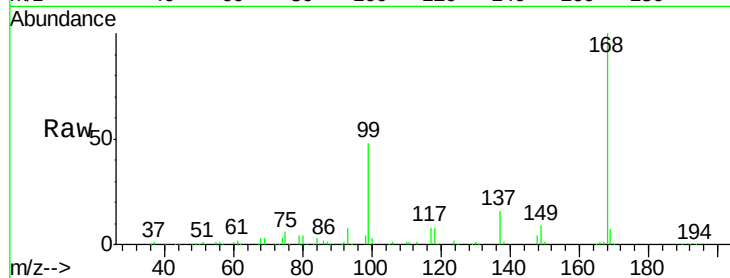
Tot Ion: 75 Resp: 39734

Ion Ratio Lower Upper

75 100

110 8.2 19.0 57.0#

77 0.0 25.4 38.0#



#37

Ethyl Acetate

Concen: 0.242 ug/l

RT: 6.97 min Scan# 1616

Delta R.T. 0.04 min

Lab File: VN053908.D

Acq: 22 Feb 2019 11:45

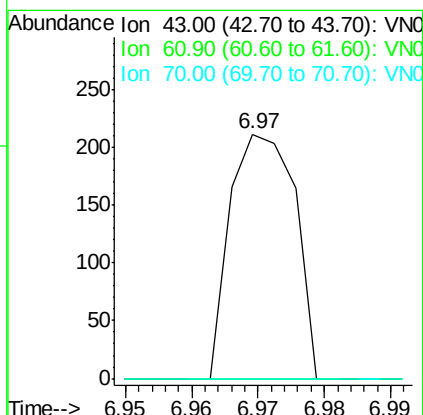
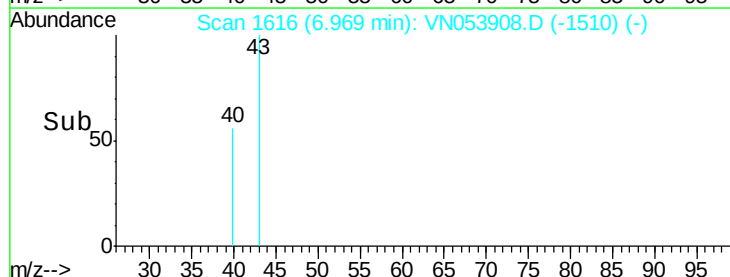
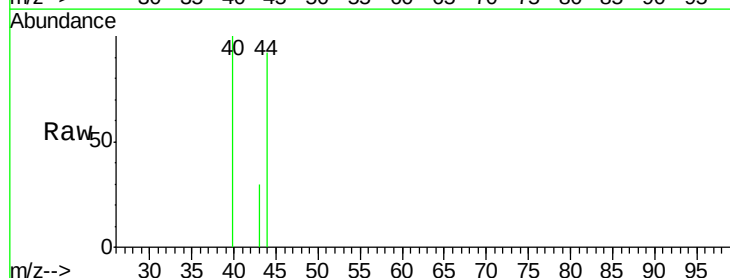
Tgt Ion: 43 Resp: 143

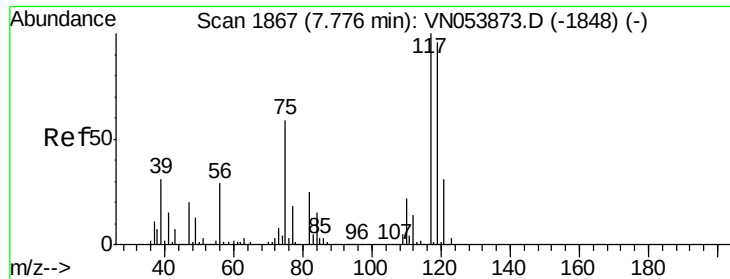
Ion Ratio Lower Upper

43 100

61 0.0 12.0 18.0#

70 0.0 8.7 13.1#





#38

Carbon Tetrachloride

Concen: 5.185 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053908.D

Acq: 22 Feb 2019 11:45

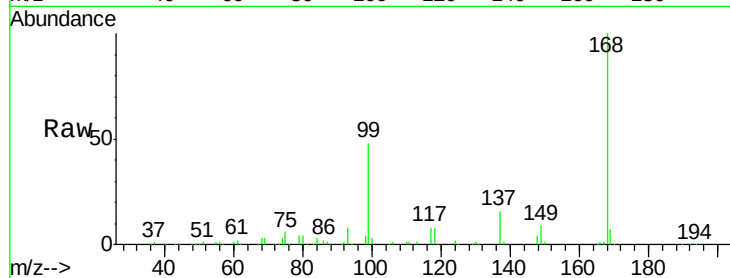
Tot Ion: 117 Resp: 53632

Ion Ratio Lower Upper

117 100

119 5.2 76.2 114.2#

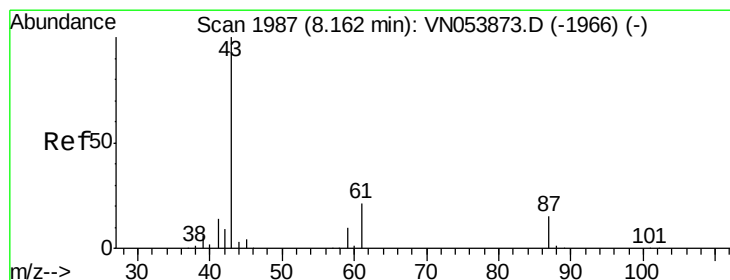
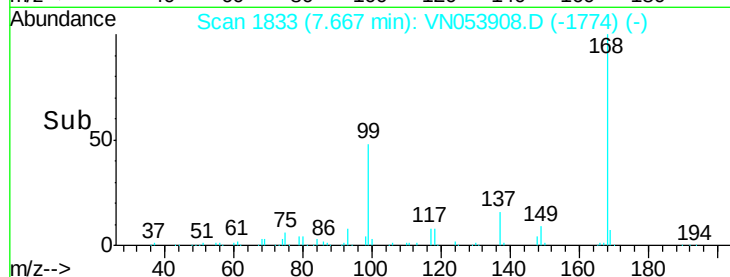
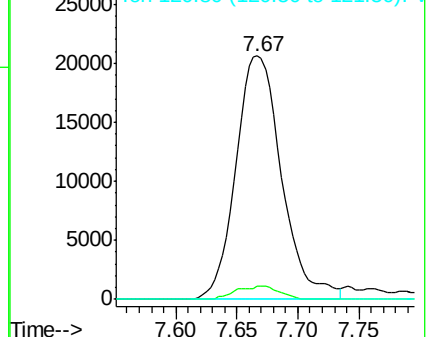
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 2.454 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053908.D

Acq: 22 Feb 2019 11:45

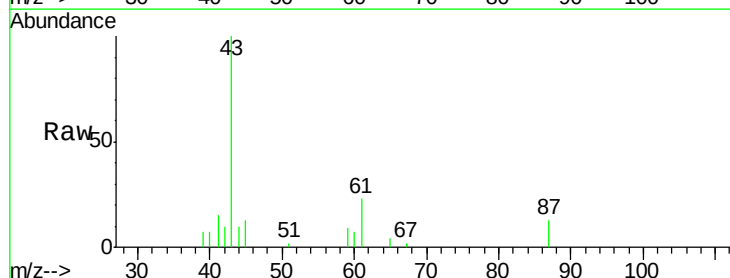
Tgt Ion: 43 Resp: 27100

Ion Ratio Lower Upper

43 100

61 22.1 17.4 26.0

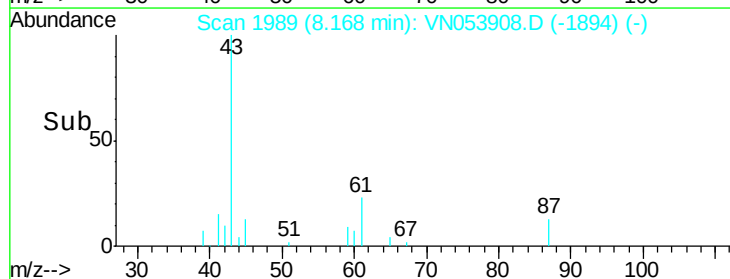
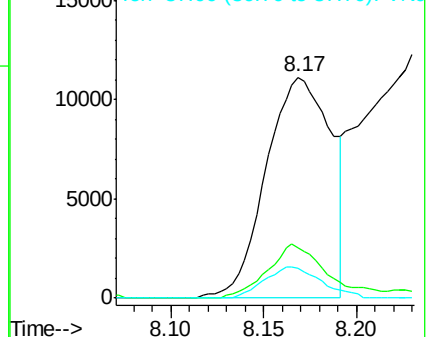
87 12.4 11.5 17.3

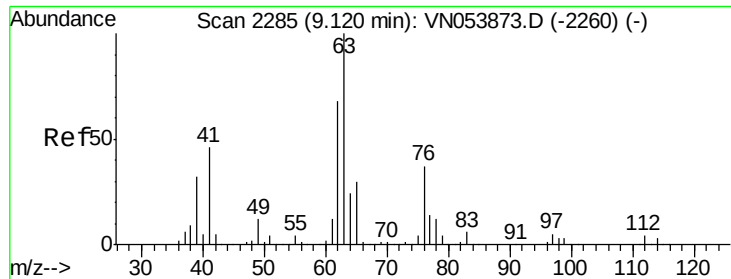


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

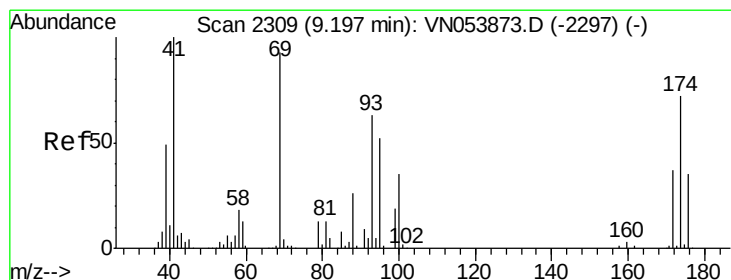
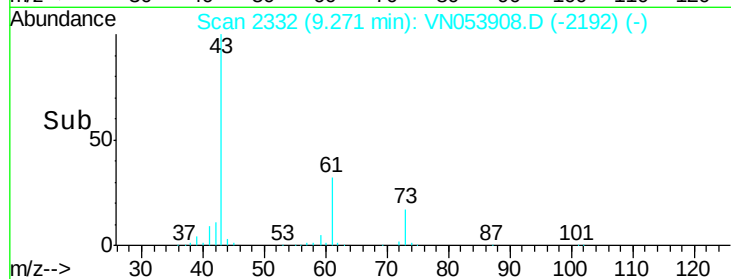
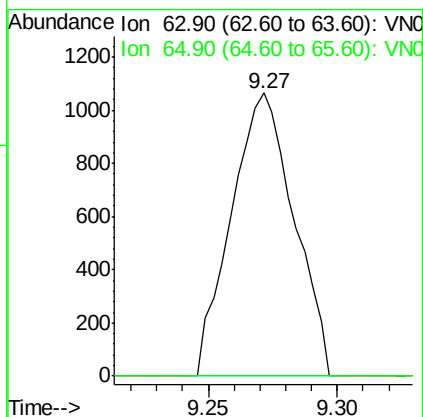
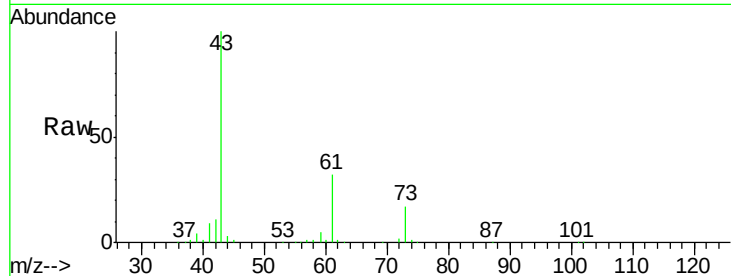
Ion 87.00 (86.70 to 87.70): V





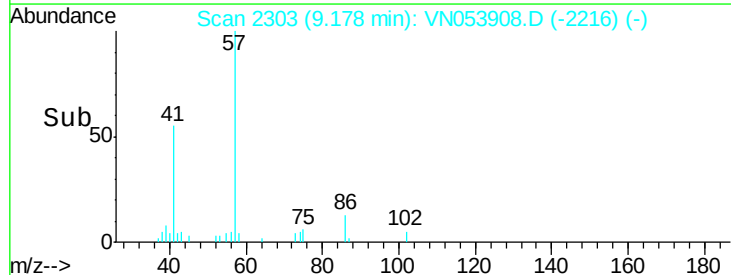
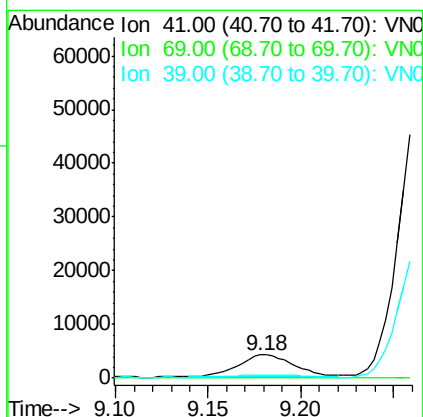
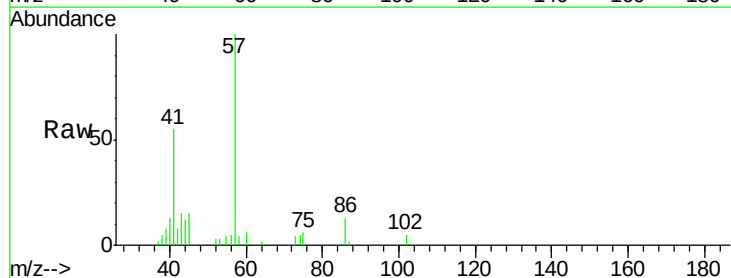
#45
 1,2-Dichloropropane
 Concen: 0.230 ug/l
 RT: 9.27 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN053908.D
 Acq: 22 Feb 2019 11:45

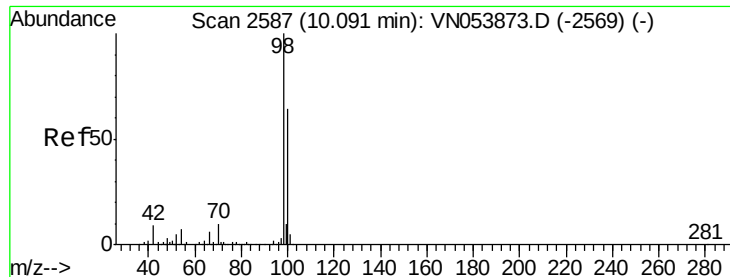
Tot Ion: 63 Resp: 1796
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.3 36.5#



#48
 Methyl methacrylate
 Concen: 1.797 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053908.D
 Acq: 22 Feb 2019 11:45

Tgt Ion: 41 Resp: 8509
 Ion Ratio Lower Upper
 41 100
 69 0.0 74.8 112.2#
 39 0.0 39.0 58.6#





#50

Toluene-d8

Concen: 49.861 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053908.D

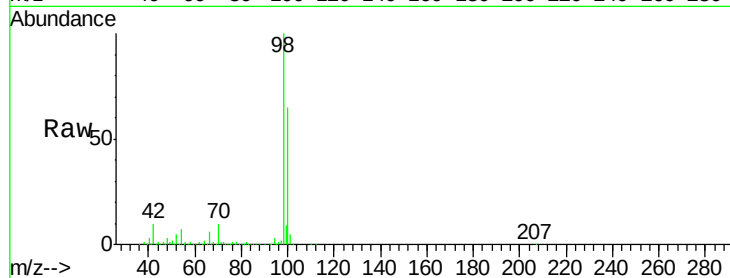
Acq: 22 Feb 2019 11:45

Tot Ion: 98 Resp: 1335007

Ion Ratio Lower Upper

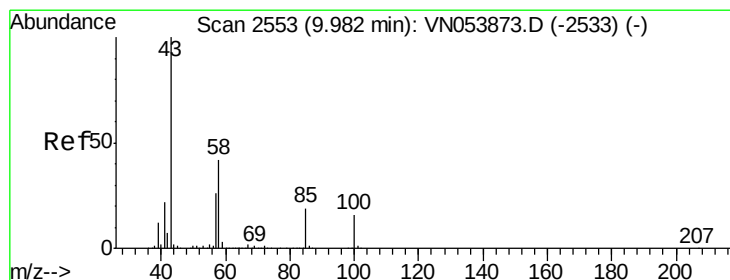
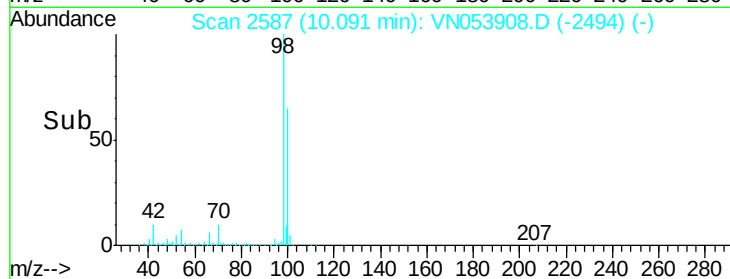
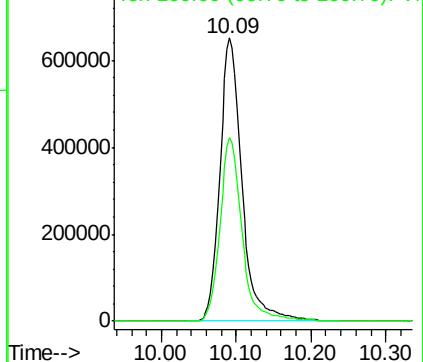
98 100

100 64.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN053873.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN053873.D (-2569) (-)



#51

4-Methyl-2-Pentanone

Concen: 7.858 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053908.D

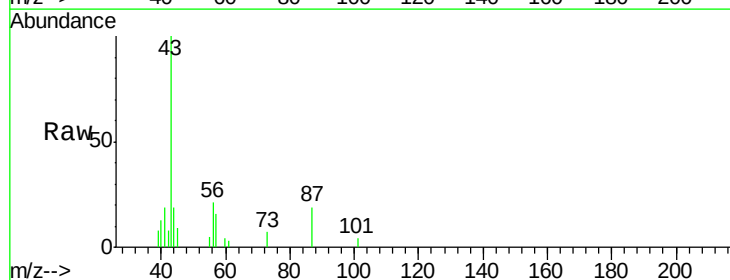
Acq: 22 Feb 2019 11:45

Tgt Ion: 43 Resp: 7791

Ion Ratio Lower Upper

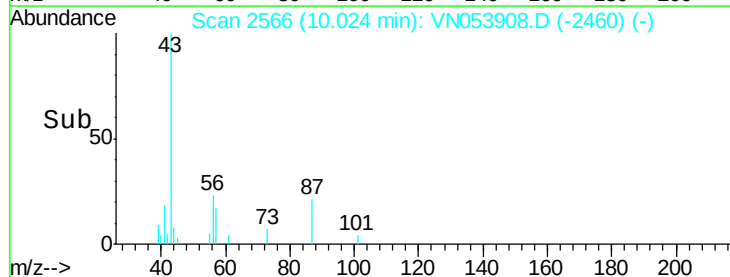
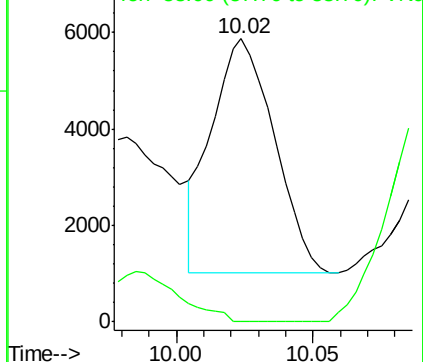
43 100

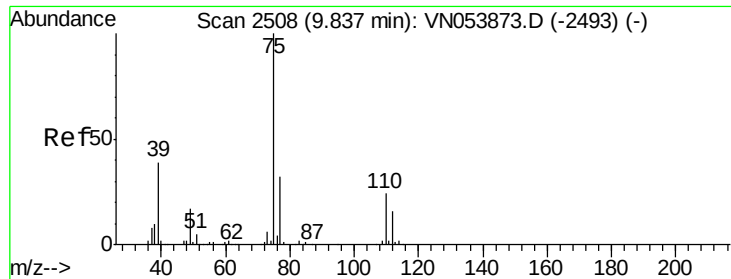
58 0.0 32.7 49.1#



Abundance Ion 43.00 (42.70 to 43.70): VN053873.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN053873.D (-2533) (-)





#54

cis-1,3-Dichloropropene

Concen: 6.309 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053908.D

Acq: 22 Feb 2019 11:45

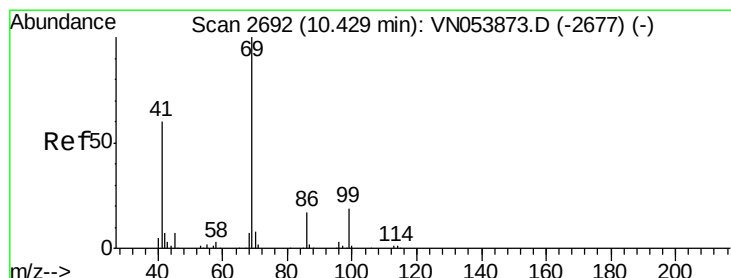
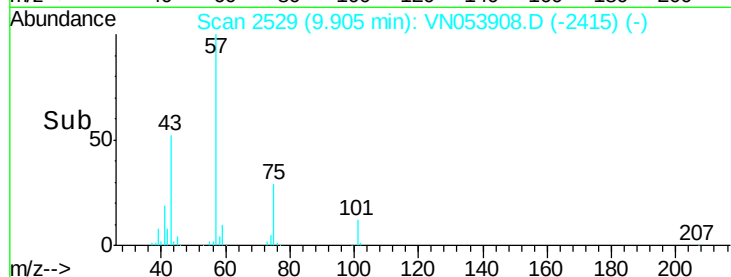
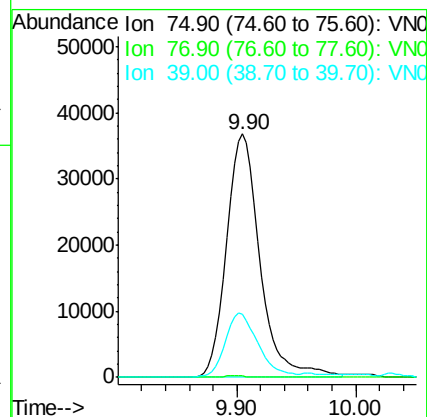
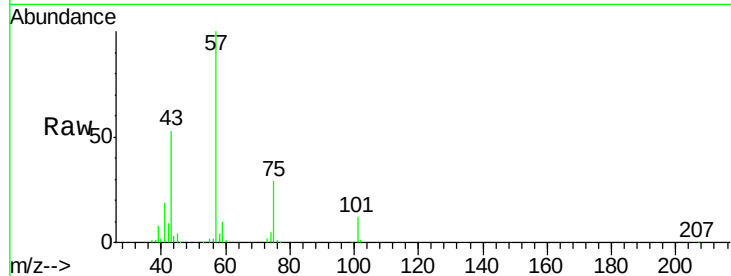
Tot Ion: 75 Resp: 71675

Ion Ratio Lower Upper

75 100

77 0.4 25.8 38.6#

39 26.0 31.4 47.0#



#56

Ethyl methacrylate

Concen: 2.613 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN053908.D

Acq: 22 Feb 2019 11:45

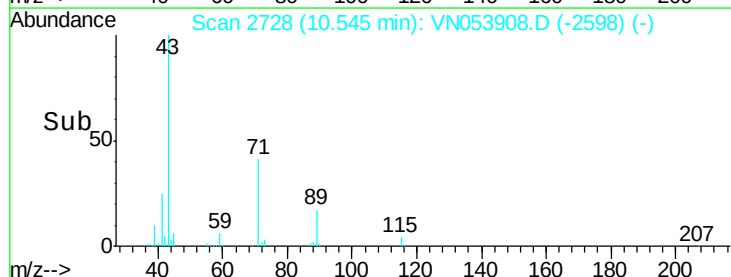
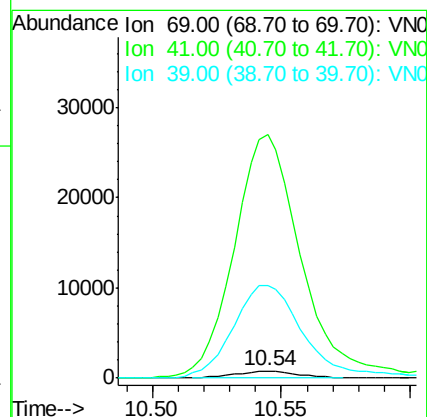
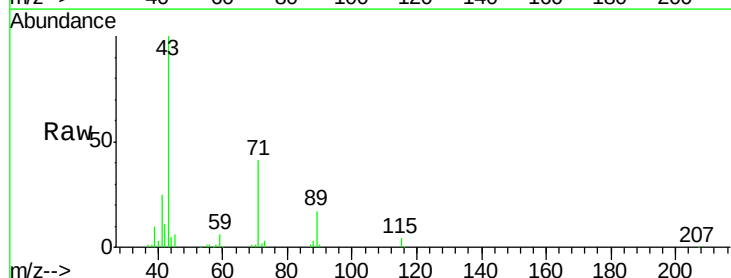
Tgt Ion: 69 Resp: 1319

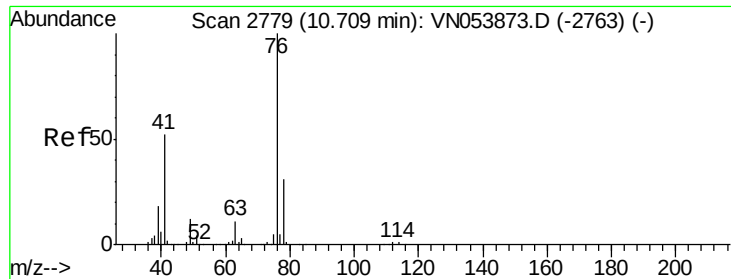
Ion Ratio Lower Upper

69 100

41 3708.0 47.5 71.3#

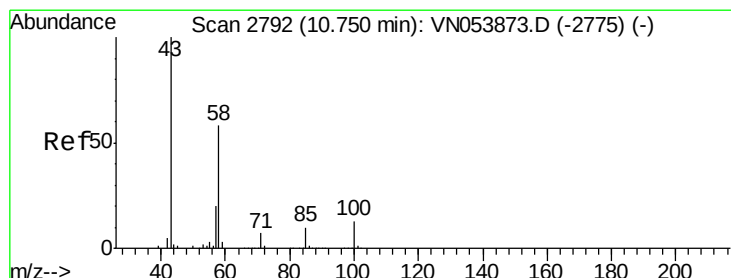
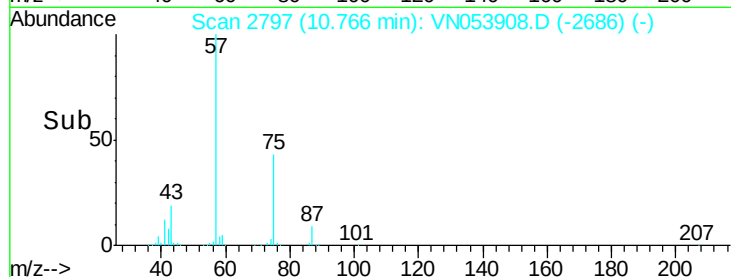
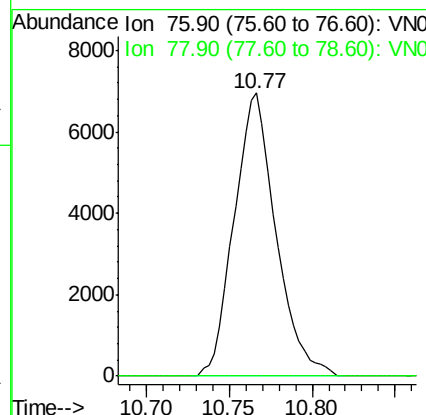
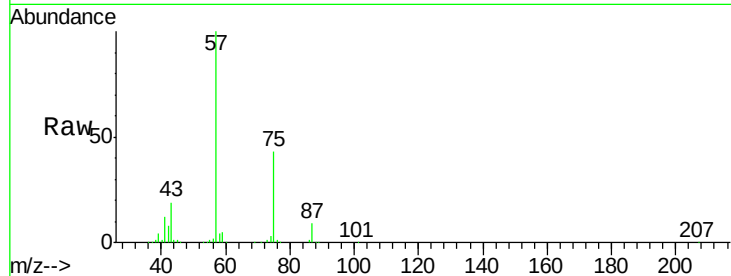
39 1482.9 23.4 35.0#





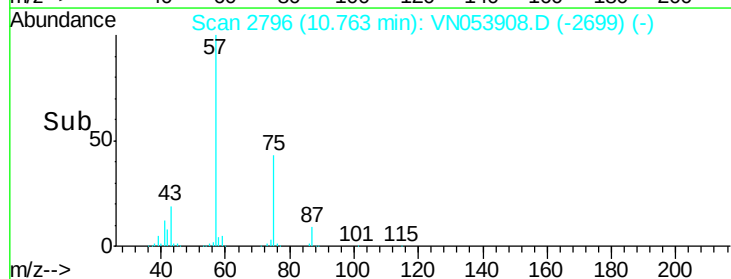
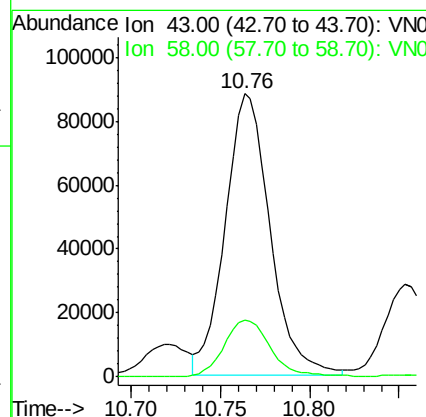
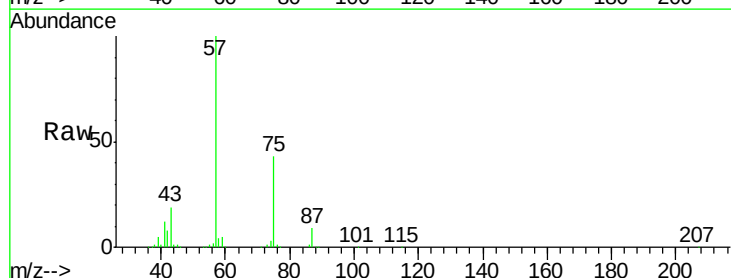
#57
 1,3-Dichloropropane
 Concen: 1.091 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN053908.D
 Acq: 22 Feb 2019 11:45

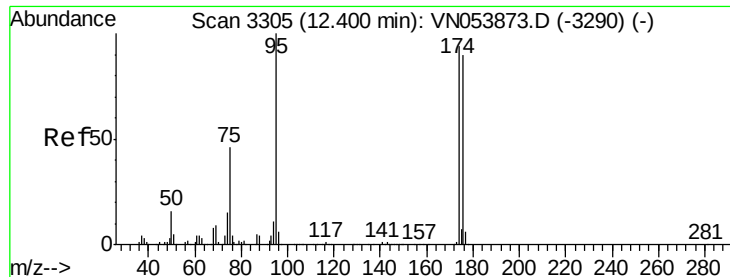
Tot Ion: 76 Resp: 12183
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.2 37.8#



#59
 2-Hexanone
 Concen: 44.589 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN053908.D
 Acq: 22 Feb 2019 11:45

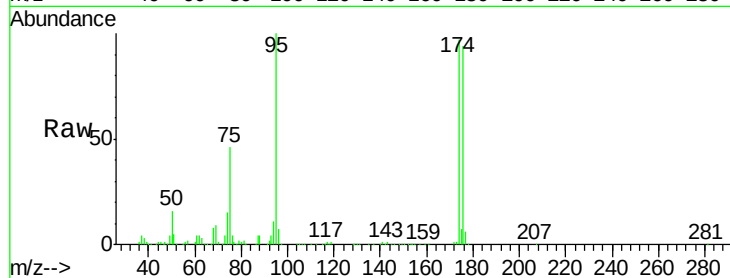
Tgt Ion: 43 Resp: 154499
 Ion Ratio Lower Upper
 43 100
 58 21.1 29.1 87.4#





#62
4-Bromofluorobenzene
Concen: 44.814 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053908.D
Acq: 22 Feb 2019 11:45

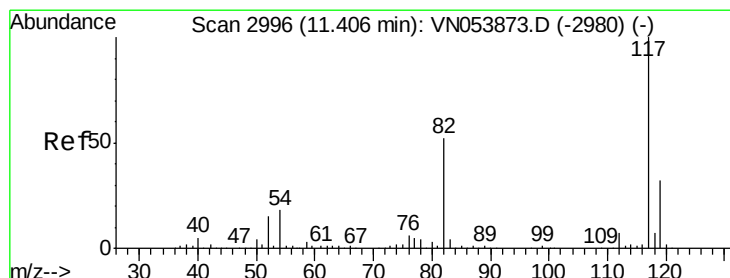
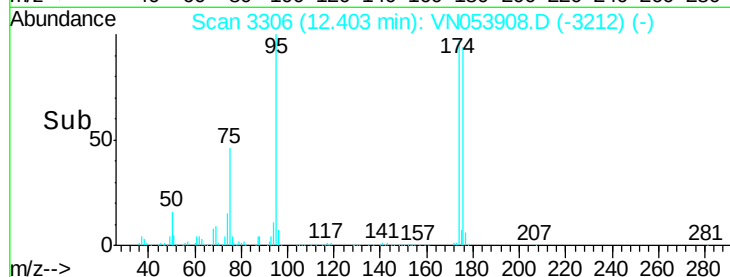
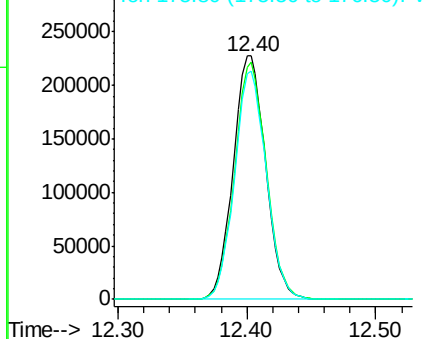
Tot Ion	Ratio	Lower	Upper
95	100		
174	95.5	0.0	188.8
176	92.0	0.0	182.6



Abundance Ion 94.90 (94.60 to 95.60): VN053908.D (-3212) (-)

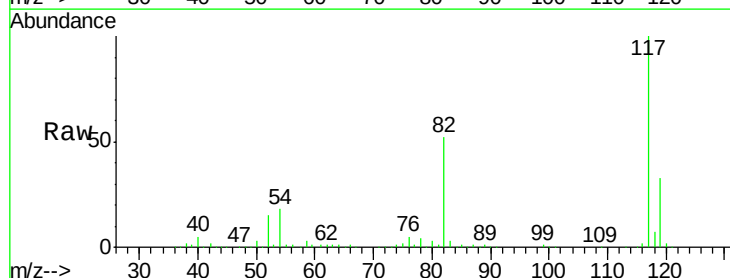
Ion 173.80 (173.50 to 174.50): VN053908.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN053908.D (-3212) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053908.D
Acq: 22 Feb 2019 11:45

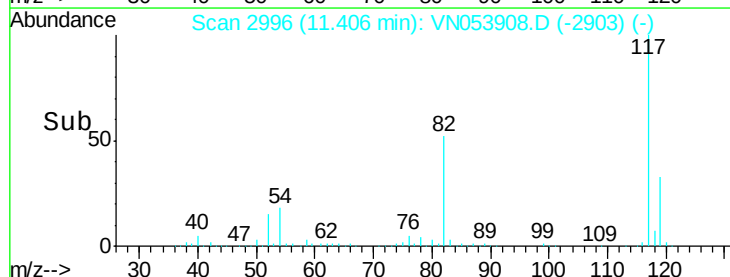
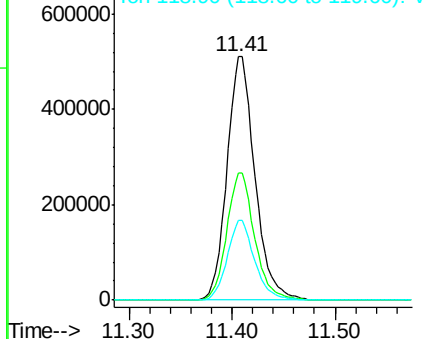
Tgt Ion	Ratio	Lower	Upper
117	100		
82	52.5	41.4	62.2
119	32.7	25.3	37.9

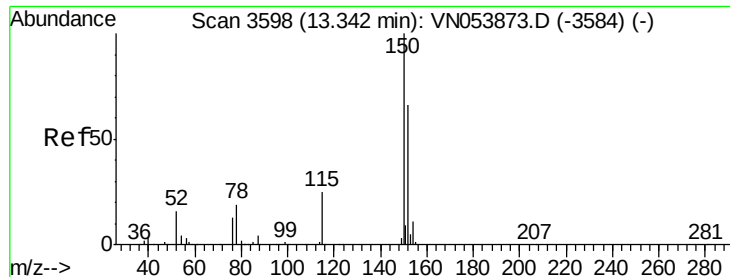


Abundance Ion 116.90 (116.60 to 117.60): VN053908.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN053908.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN053908.D (-2903) (-)

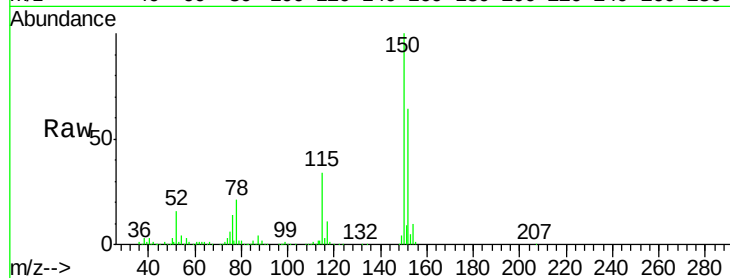




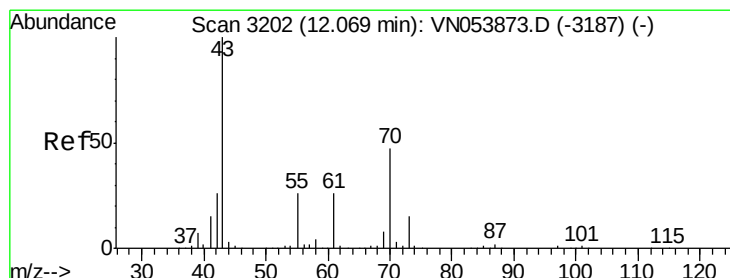
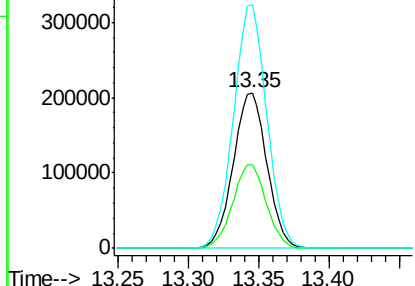
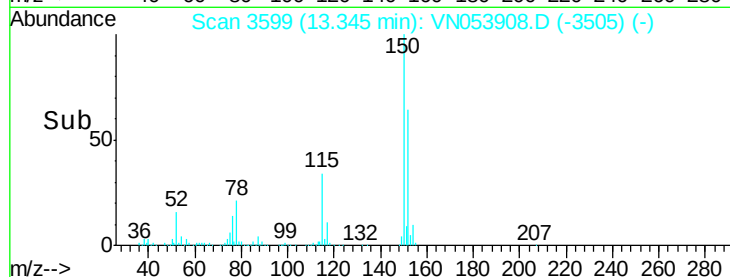
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053908.D
Acq: 22 Feb 2019 11:45

Tot Ion	Ratio	Lower	Upper
152	100		
115	53.8	27.2	81.6
150	155.6	0.0	348.2



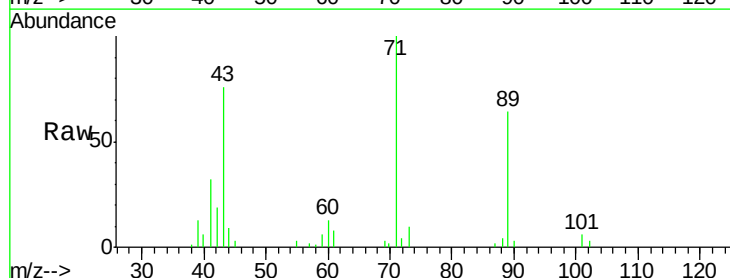
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



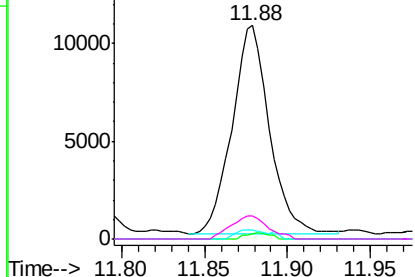
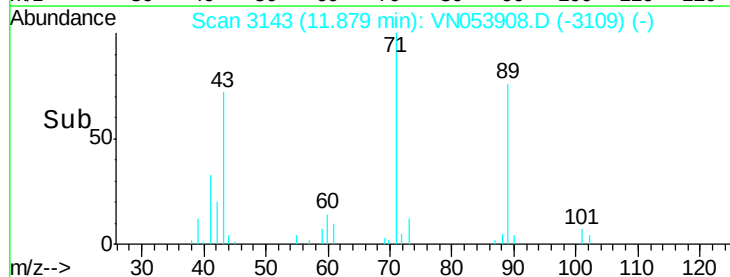
#74

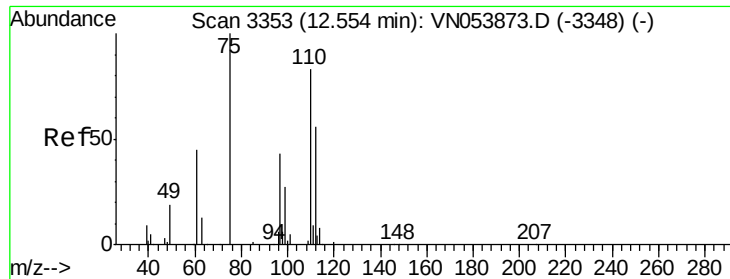
N-ethyl acetate
Concen: 3.017 ug/l
RT: 11.88 min Scan# 3143
Delta R.T. -0.19 min
Lab File: VN053908.D
Acq: 22 Feb 2019 11:45

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.0	37.4	56.2#
55	4.1	21.4	32.0#
61	10.9	20.9	31.3#



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 70.00 (69.70 to 70.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 61.00 (60.70 to 61.70): V

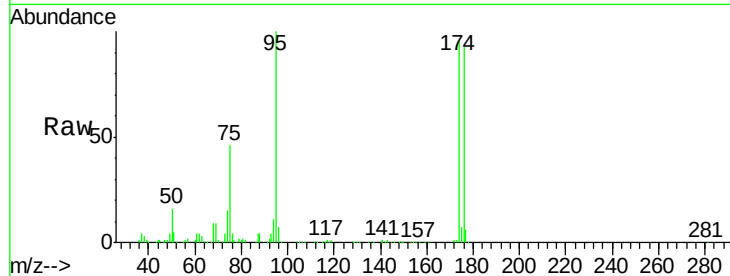




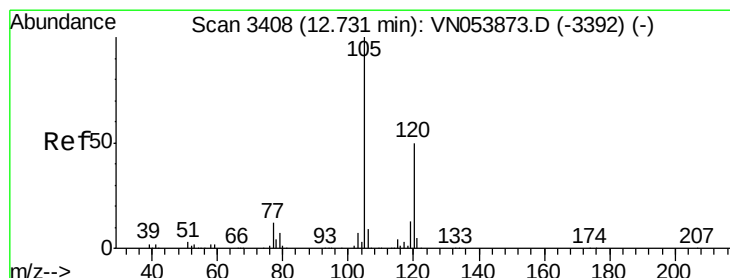
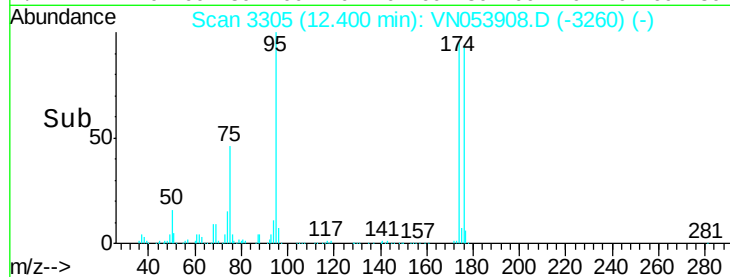
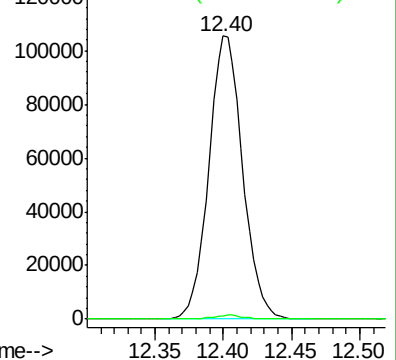
#76

1,2,3-Trichloropropane
Concen: 35.780 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN053908.D
Acq: 22 Feb 2019 11:45

Tot Ion: 75 Resp: 180959
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



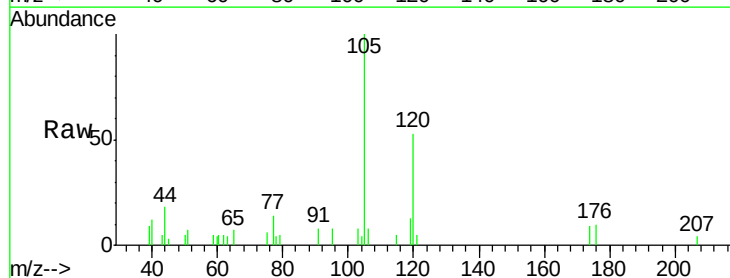
Abundance Ion 74.90 (74.60 to 75.60): VN053908.D (-3305) (-)
Ion 77.00 (76.70 to 77.70): VN053908.D (-3305) (-)



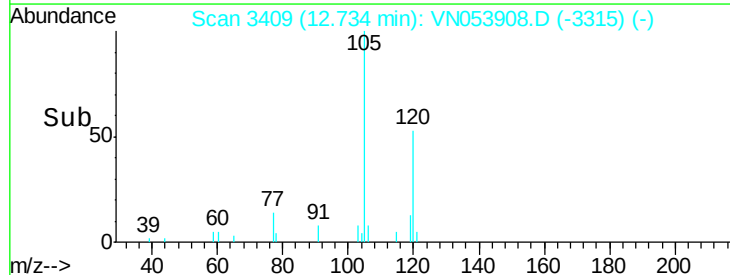
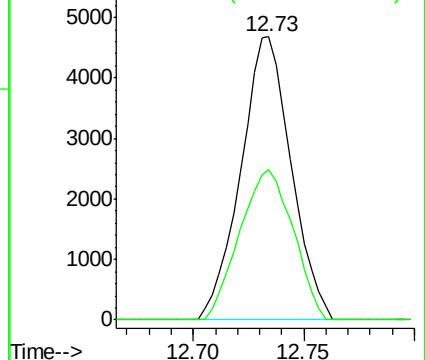
#80

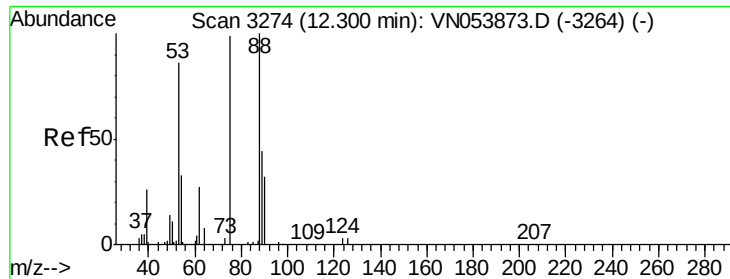
1,3,5-Trimethylbenzene
Concen: 0.367 ug/l
RT: 12.73 min Scan# 3409
Delta R.T. 0.00 min
Lab File: VN053908.D
Acq: 22 Feb 2019 11:45

Tgt Ion: 105 Resp: 7403
Ion Ratio Lower Upper
105 100
120 56.3 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): VN053908.D (-3315) (-)
Ion 120.00 (119.70 to 120.70): VN053908.D (-3315) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 118.121 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053908.D

Acq: 22 Feb 2019 11:45

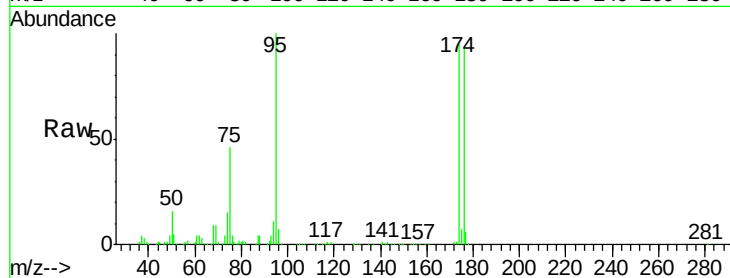
Tot Ion: 75 Resp: 180959

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN053908.D (-3305) (-)

Ion 53.00 (52.70 to 53.70): VN053908.D (-3305) (-)

Ion 88.90 (88.60 to 89.60): VN053908.D (-3305) (-)

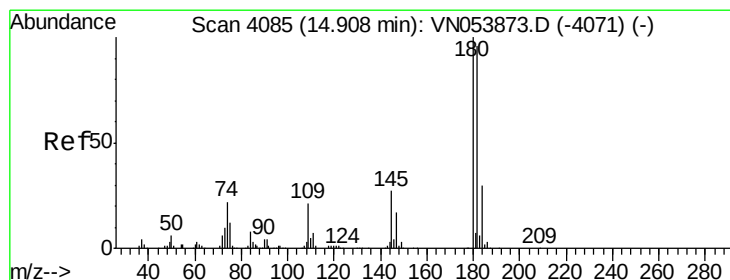
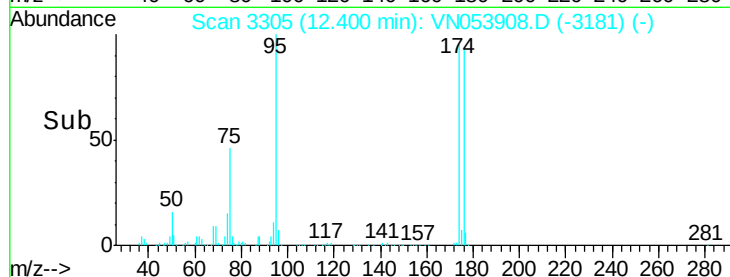
12.40

100000

50000

0

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 2.982 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN053908.D

Acq: 22 Feb 2019 11:45

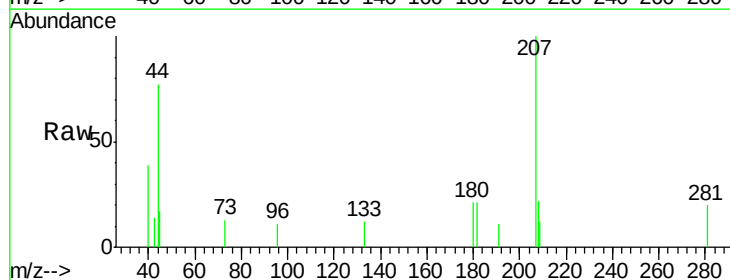
Tgt Ion: 180 Resp: 394

Ion Ratio Lower Upper

180 100

182 126.9 48.6 145.9

145 19.0 13.8 41.3



Abundance Ion 179.80 (179.50 to 180.50): VN053908.D (-4084) (-)

Ion 181.80 (181.50 to 182.50): VN053908.D (-4084) (-)

Ion 144.80 (144.50 to 145.50): VN053908.D (-4084) (-)

400

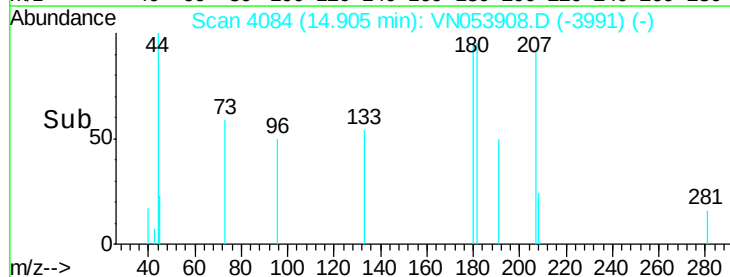
300

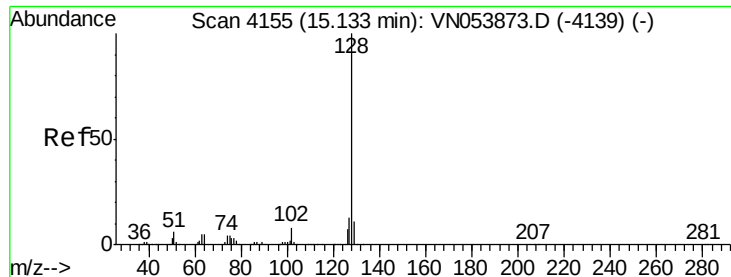
200

100

0

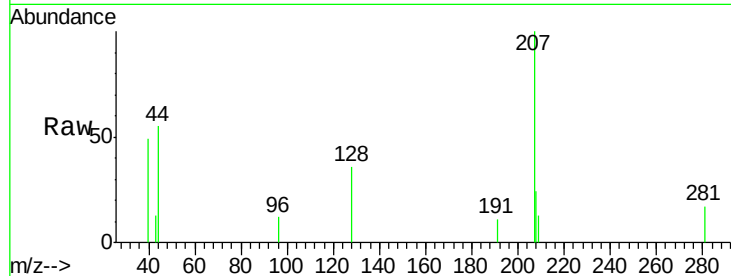
Time-->



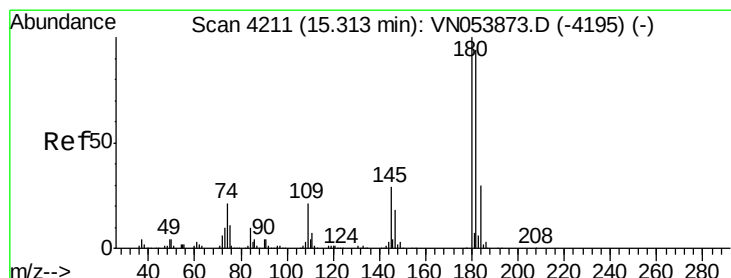
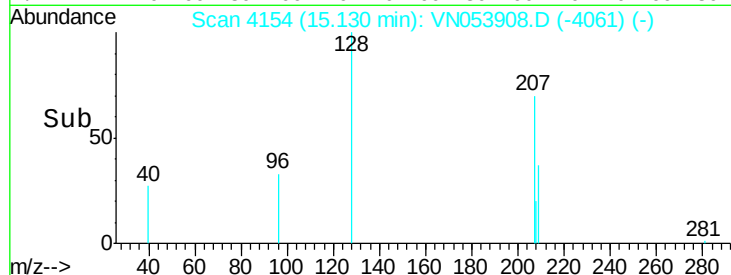
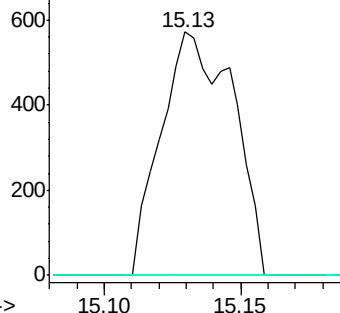


#95
Naphthalene
Concen: 4.682 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN053908.D
Acq: 22 Feb 2019 11:45

Tot Ion:128 Resp: 1054
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 0.0 8.6 12.8#

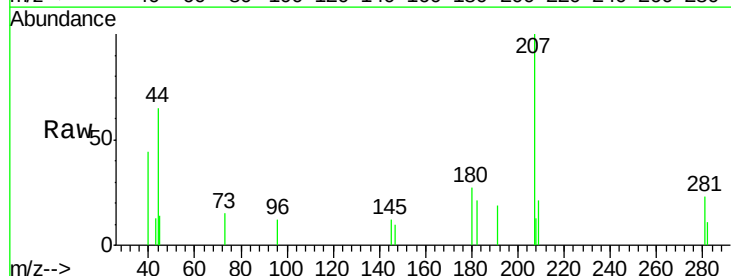


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 2.638 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN053908.D
Acq: 22 Feb 2019 11:45

Tgt Ion:180 Resp: 501
Ion Ratio Lower Upper
180 100
182 100.8 47.3 141.8
145 34.3 14.4 43.0



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

