

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030419\
 Data File : VN054088.D
 Acq On : 5 Mar 2019 1:22
 Operator : JC/SP
 Sample : K1712-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 33 Sample Multiplier: 1

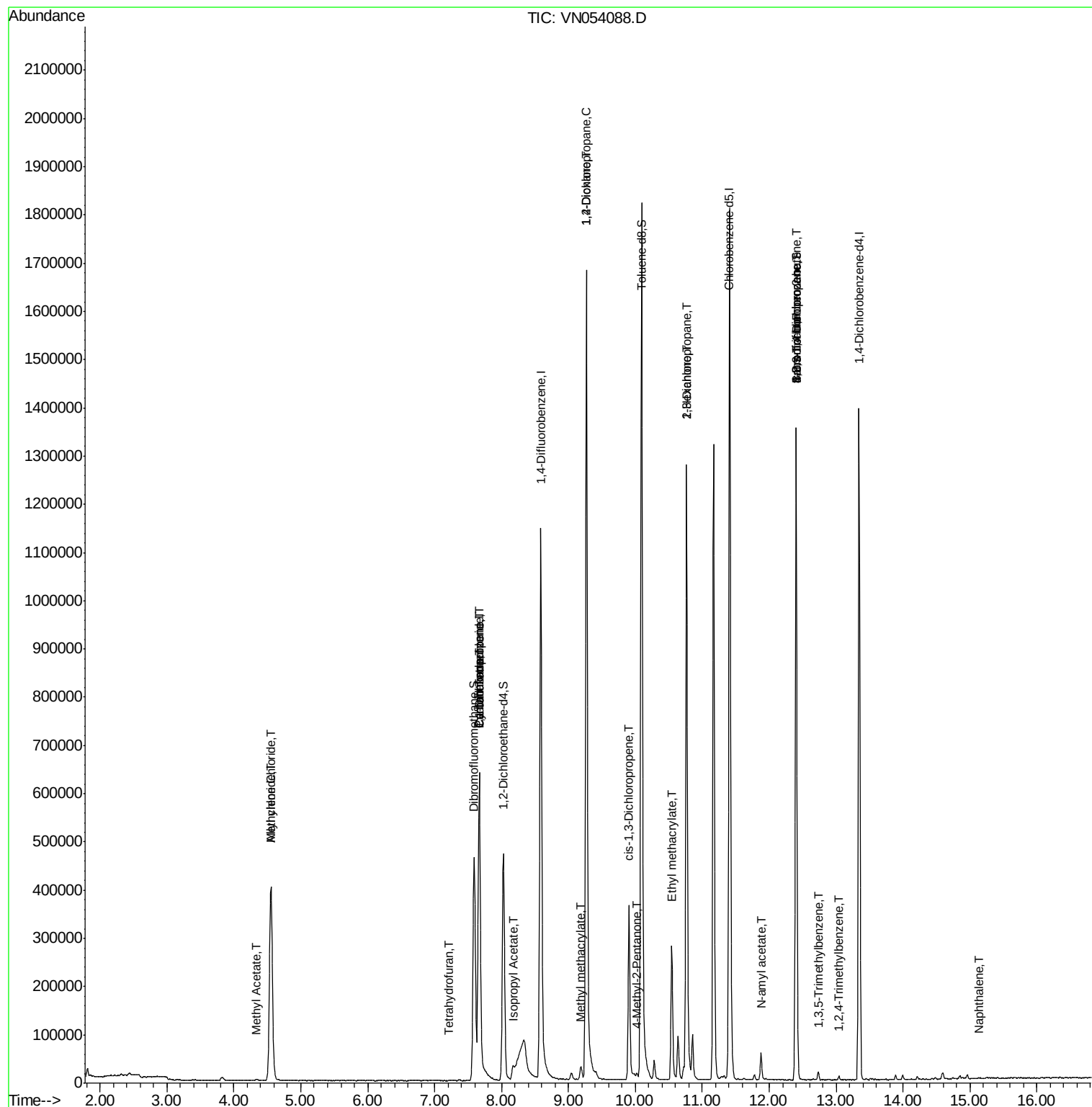
Quant Time: Mar 05 03:42:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 28 04:05:45 2019
 Response via : Initial Calibration

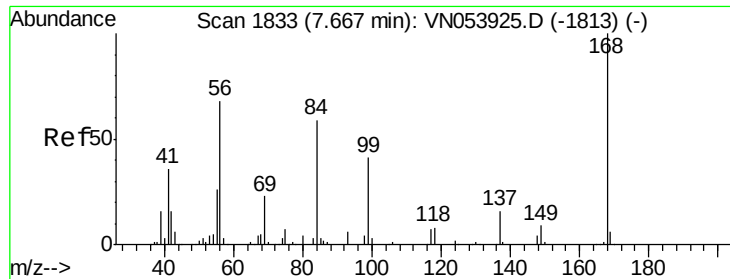
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	602655	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1121722	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1096981	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	394888	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	406885	57.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.20%	
35) Dibromofluoromethane	7.59	113	362726	50.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.02%	
50) Toluene-d8	10.09	98	1419362	52.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.12%	
62) 4-Bromofluorobenzene	12.40	95	470037	52.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.50%	
Target Compounds						
					Qvalue	
14) Allyl chloride	4.55	41	13684	1.311	ug/l #	27
16) Acetone	3.82	43	12411	Below Cal		96
18) Methyl Acetate	4.33	43	2989	0.605	ug/l #	81
20) Methylene Chloride	4.55	84	300299	42.950	ug/l	89
29) Tetrahydrofuran	7.21	42	598	0.324	ug/l #	51
31) Cyclohexane	7.67	56	10942	0.563	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41531	3.981	ug/l #	46
38) Carbon Tetrachloride	7.67	117	53564	4.937	ug/l #	17
43) Isopropyl Acetate	8.17	43	35919	2.856	ug/l #	88
45) 1,2-Dichloropropane	9.27	63	2379	0.275	ug/l #	44
48) Methyl methacrylate	9.18	41	11079	1.915	ug/l #	12
49) 1,4-Dioxane	9.27	88	142	1.812	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	9923	1.535	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	67485	5.562	ug/l #	72
56) Ethyl methacrylate	10.54	69	1613	2.123	ug/l #	1
57) 1,3-Dichloropropane	10.77	76	13494	1.133	ug/l #	43
59) 2-Hexanone	10.76	43	203711	48.466	ug/l #	48
71) Bromoform	12.40	173	3402	0.586	ug/l #	1
74) N-amyl acetate	11.88	43	19202	2.383	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	230260	36.349	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8005	0.318	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	230260	114.886	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	5192	0.207	ug/l	93
95) Naphthalene	15.13	128	2605	3.368	ug/l	98

(#) = 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: VN054088.D

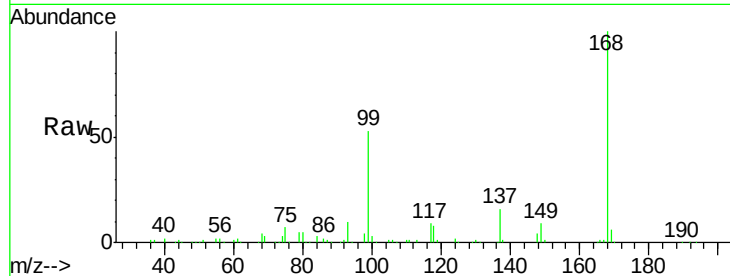
Acq: 5 Mar 2019 1:22

Tot Ion:168 Resp: 602655

Ion Ratio Lower Upper

168 100

99 53.1 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): VN054088.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN054088.D (-1740) (-)

7.67

250000

200000

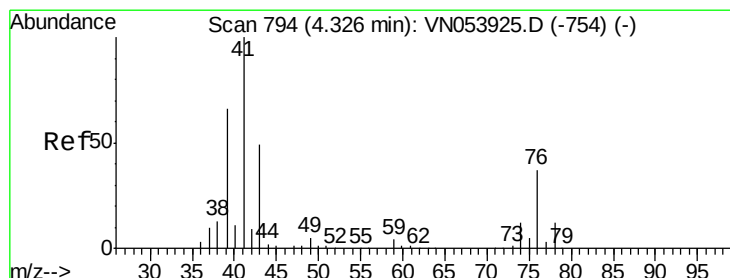
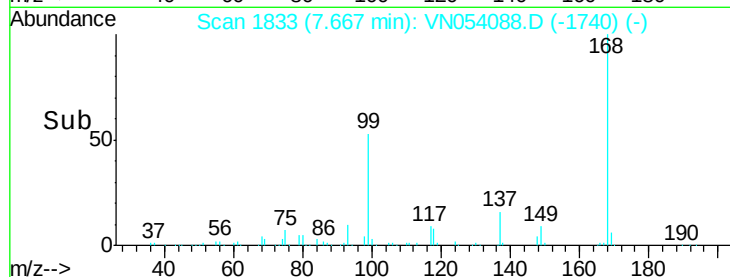
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#14

Allyl chloride

Concen: 1.311 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.22 min

Lab File: VN054088.D

Acq: 5 Mar 2019 1:22

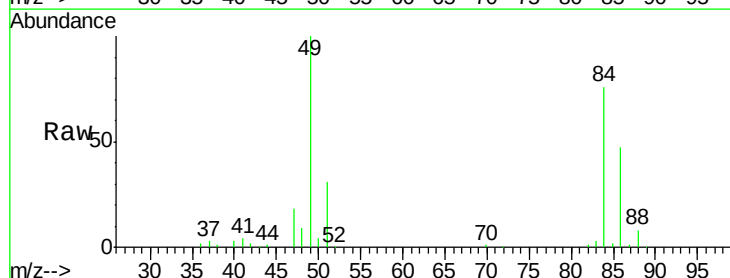
Tgt Ion: 41 Resp: 13684

Ion Ratio Lower Upper

41 100

39 0.5 48.8 73.2#

76 0.0 30.9 46.3#



Abundance Ion 41.00 (40.70 to 41.70): VN054088.D (-701) (-)

Ion 39.00 (38.70 to 39.70): VN054088.D (-701) (-)

Ion 75.90 (75.60 to 76.60): VN054088.D (-701) (-)

4.55

6000

5000

4000

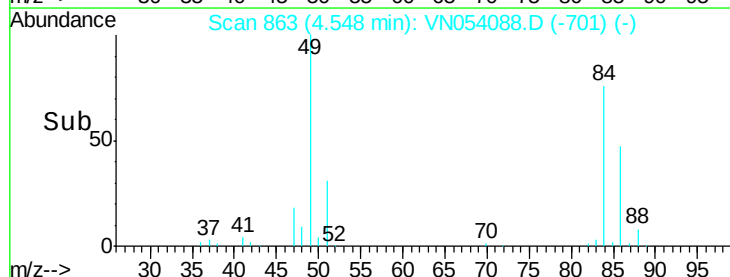
3000

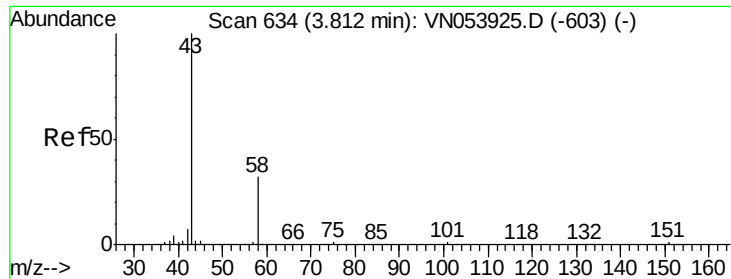
2000

1000

0

Time--> 4.45 4.50 4.55 4.60 4.65





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN054088.D

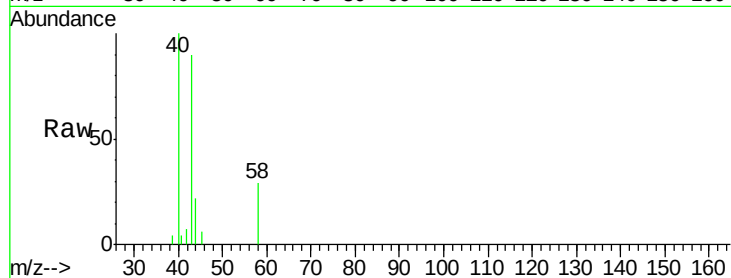
Acq: 5 Mar 2019 1:22

Tot Ion: 43 Resp: 12411

Ion Ratio Lower Upper

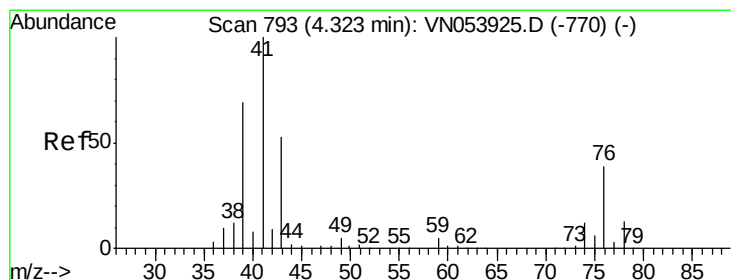
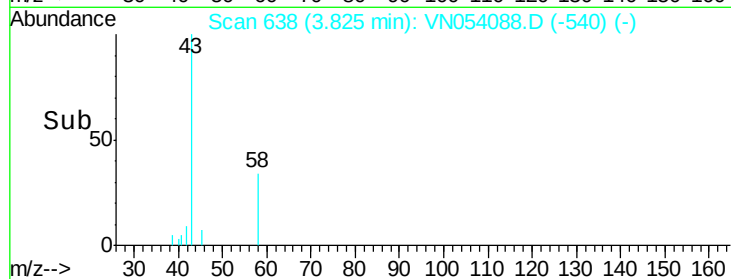
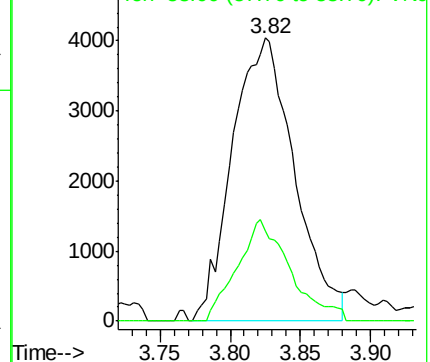
43 100

58 31.9 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.605 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN054088.D

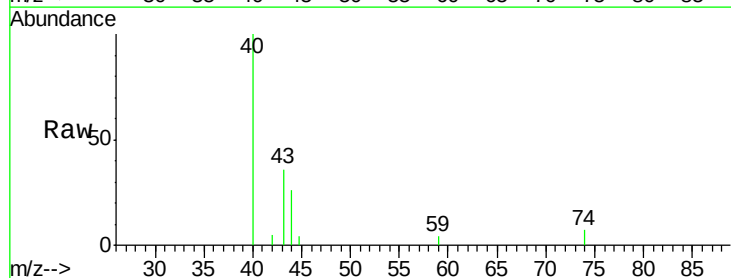
Acq: 5 Mar 2019 1:22

Tgt Ion: 43 Resp: 2989

Ion Ratio Lower Upper

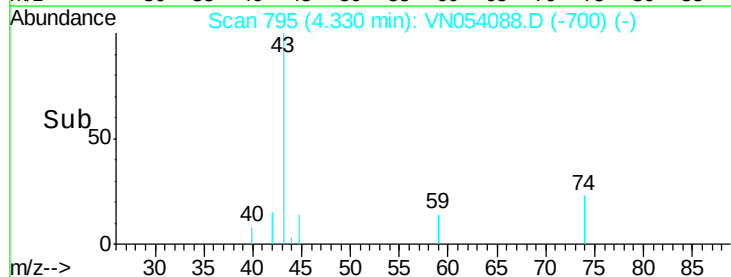
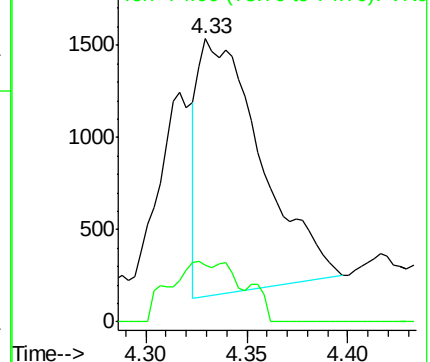
43 100

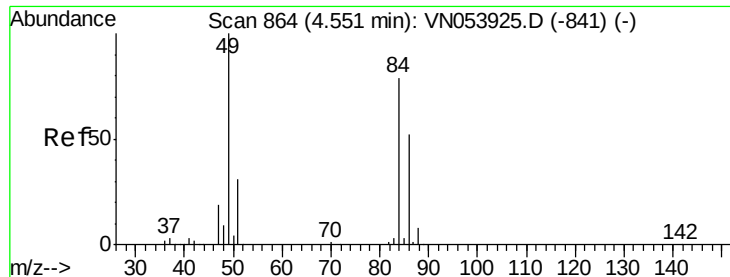
74 16.2 20.5 30.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

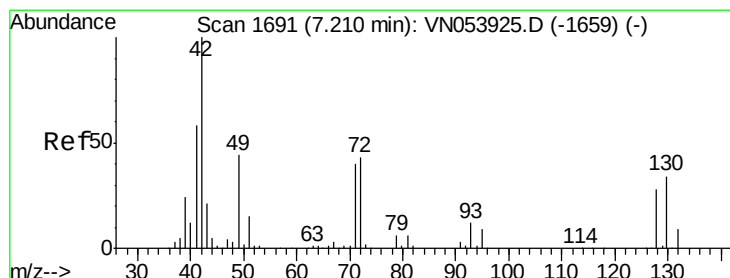
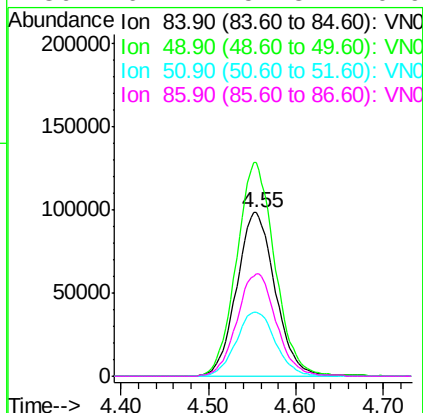
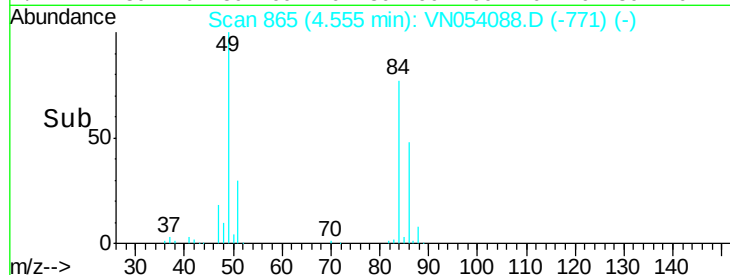
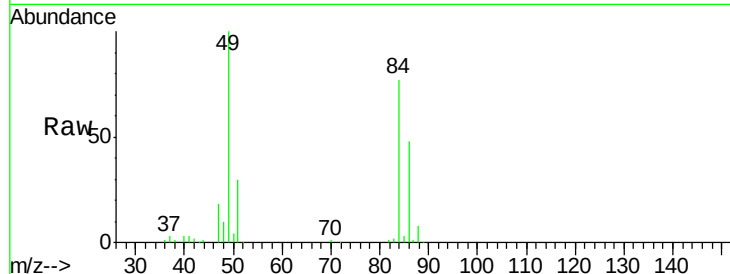




#20
Methylene Chloride
Concen: 42.950 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN054088.D
Acq: 5 Mar 2019 1:22

Tot Ion: 84 Resp: 300299

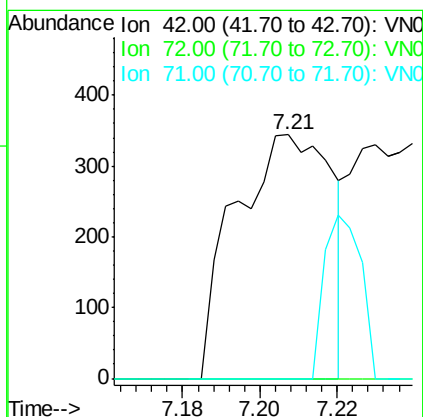
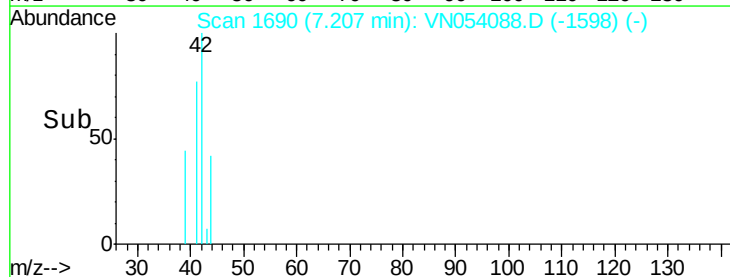
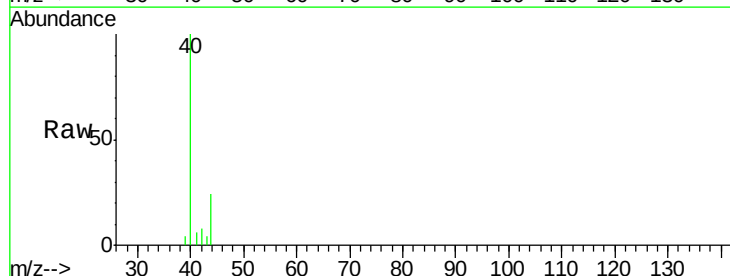
Ion	Ratio	Lower	Upper
84	100		
49	130.2	89.7	134.5
51	39.0	27.8	41.8
86	62.4	51.3	76.9

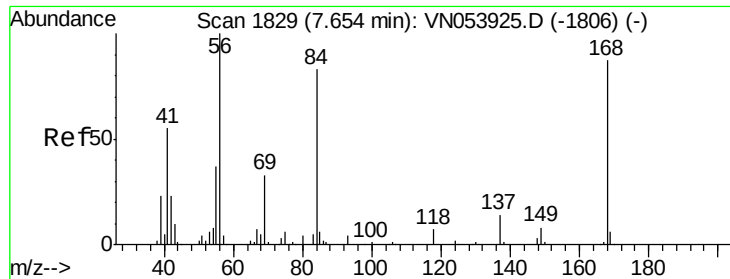


#29
Tetrahydrofuran
Concen: 0.324 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN054088.D
Acq: 5 Mar 2019 1:22

Tgt Ion: 42 Resp: 598

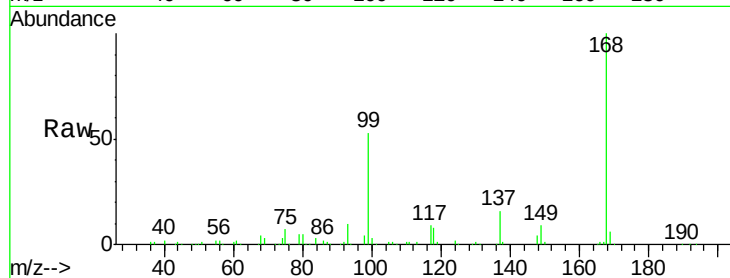
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.9	55.3#
71	25.4	34.6	52.0#



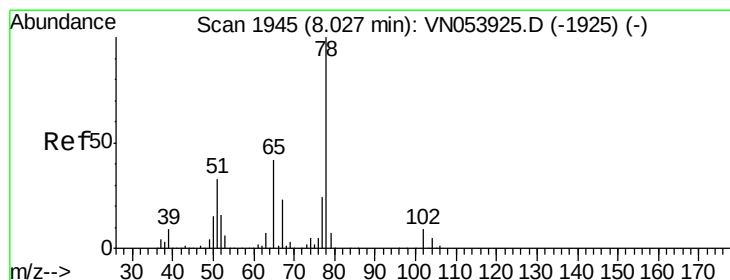
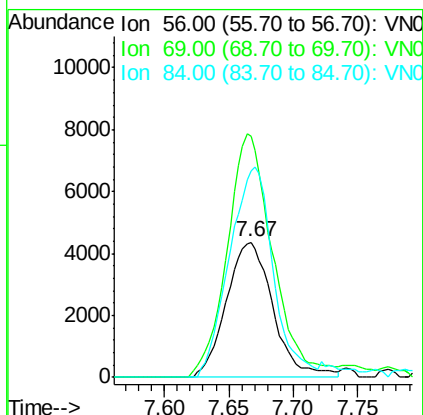
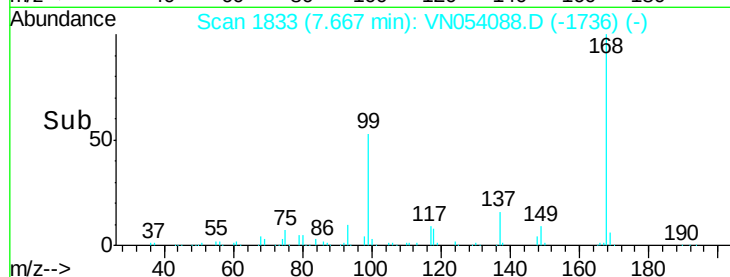


#31
Cyclohexane
Concen: 0.563 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN054088.D
Acq: 5 Mar 2019 1:22

Tot Ion: 56 Resp: 10942
Ion Ratio Lower Upper
56 100
69 178.8 26.0 39.0#
84 153.0 69.1 103.7#

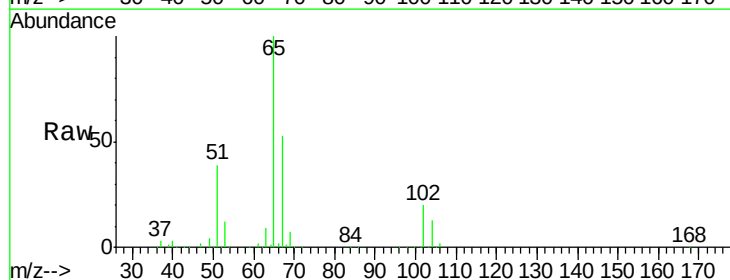


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

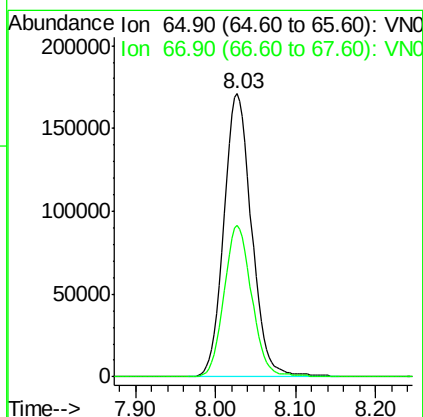
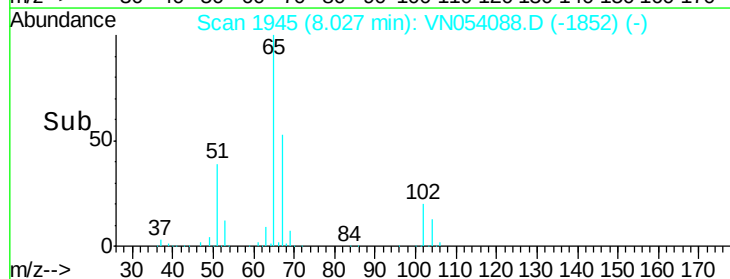


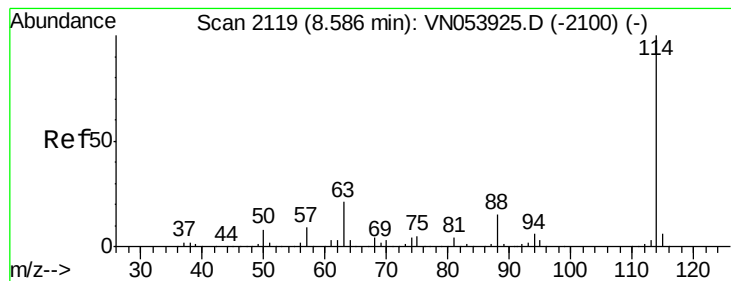
#33
1,2-Dichloroethane-d4
Concen: 57.596 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054088.D
Acq: 5 Mar 2019 1:22

Tgt Ion: 65 Resp: 406885
Ion Ratio Lower Upper
65 100
67 53.4 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: VN054088.D

Acq: 5 Mar 2019 1:22

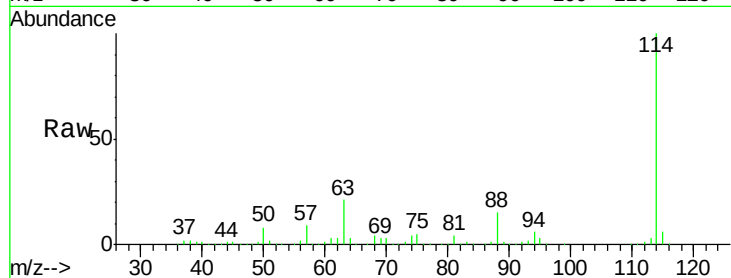
Tot Ion:114 Resp: 1121722

Ion Ratio Lower Upper

114 100

63 20.6 0.0 37.4

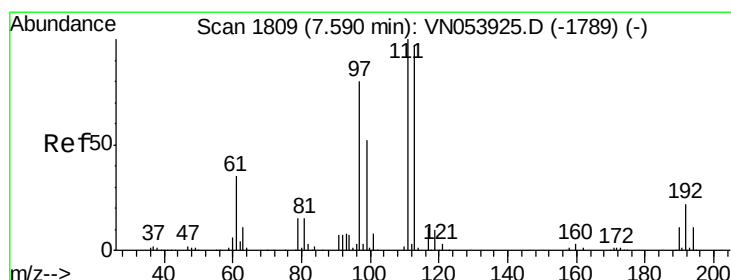
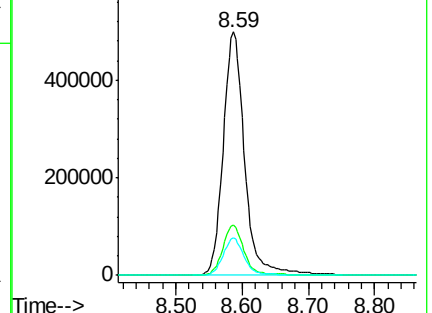
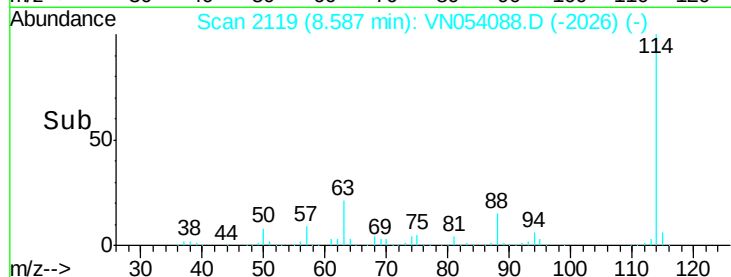
88 15.4 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.006 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054088.D

Acq: 5 Mar 2019 1:22

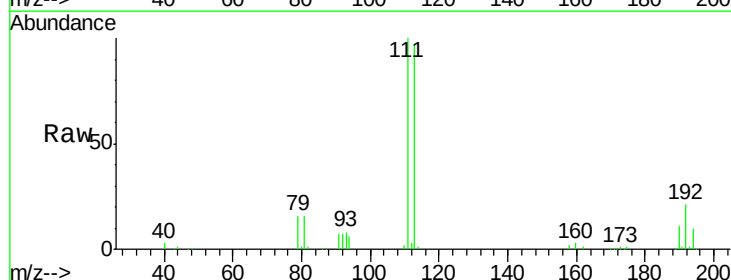
Tgt Ion:113 Resp: 362726

Ion Ratio Lower Upper

113 100

111 103.3 81.1 121.7

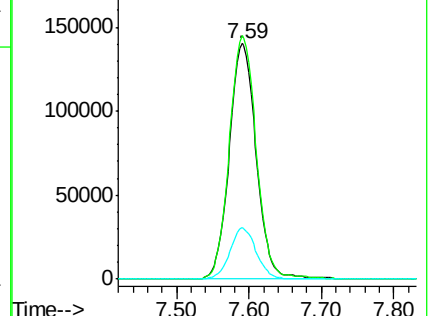
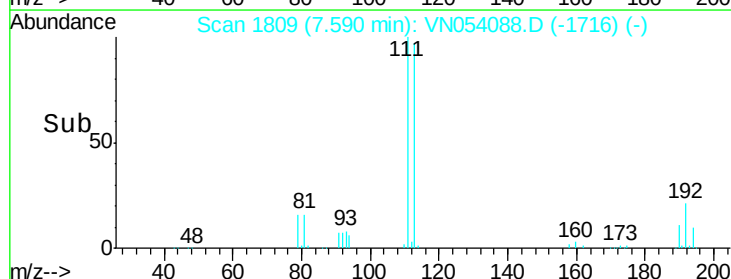
192 21.1 18.8 28.2

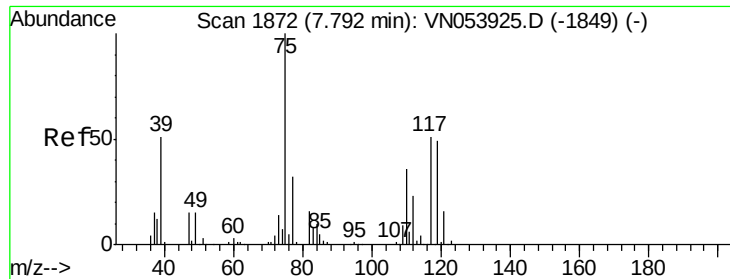


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.981 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN054088.D

Acq: 5 Mar 2019 1:22

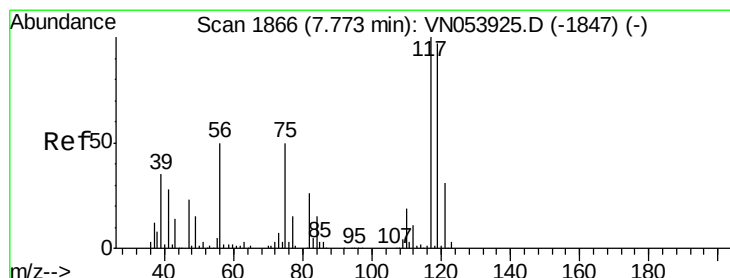
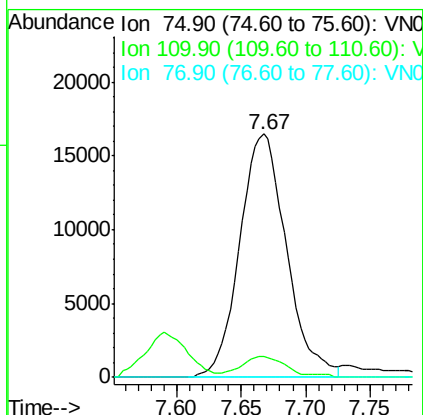
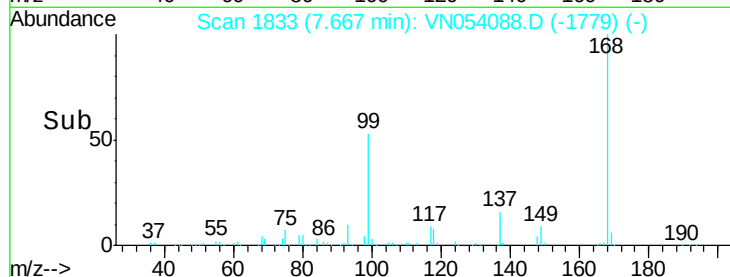
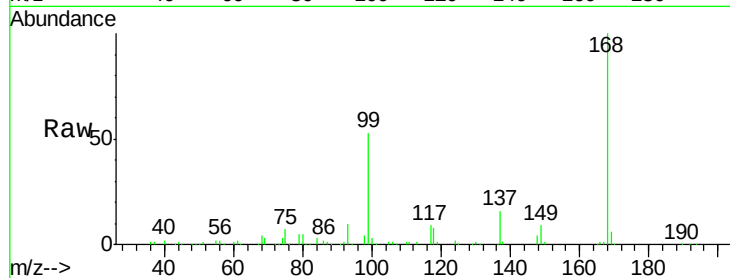
Tot Ion: 75 Resp: 41531

Ion Ratio Lower Upper

75 100

110 6.7 19.0 57.0#

77 0.0 25.4 38.0#



#38

Carbon Tetrachloride

Concen: 4.937 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054088.D

Acq: 5 Mar 2019 1:22

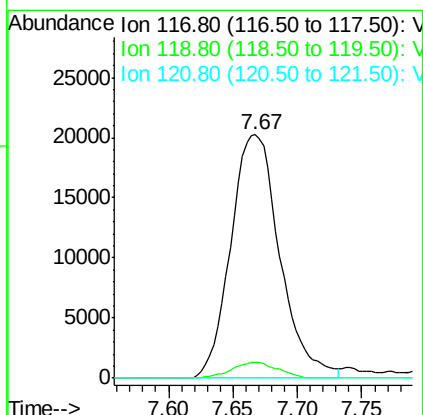
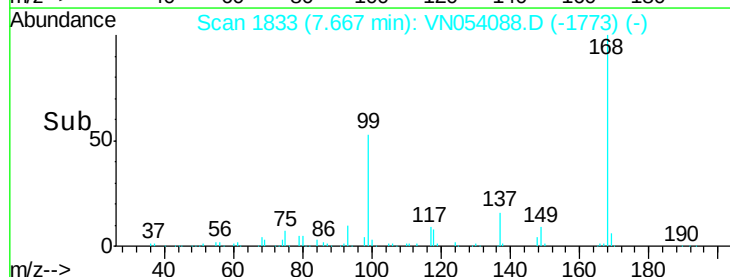
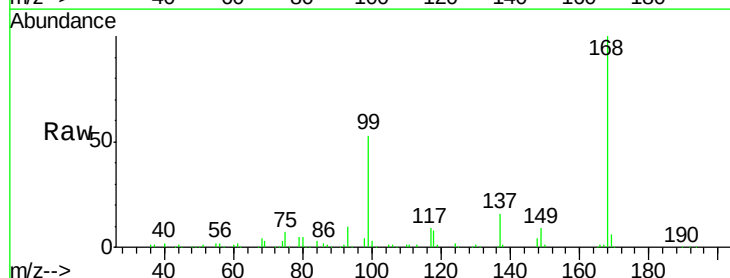
Tgt Ion: 117 Resp: 53564

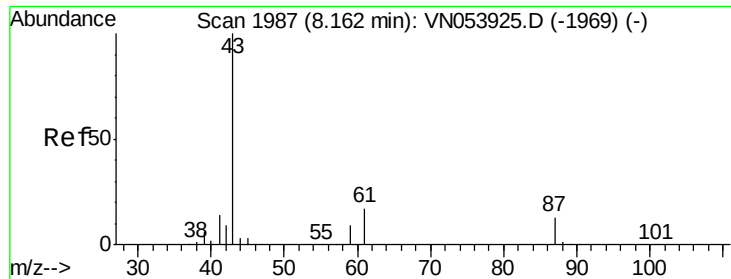
Ion Ratio Lower Upper

117 100

119 6.5 76.2 114.2#

121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 2.856 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN054088.D

Acq: 5 Mar 2019 1:22

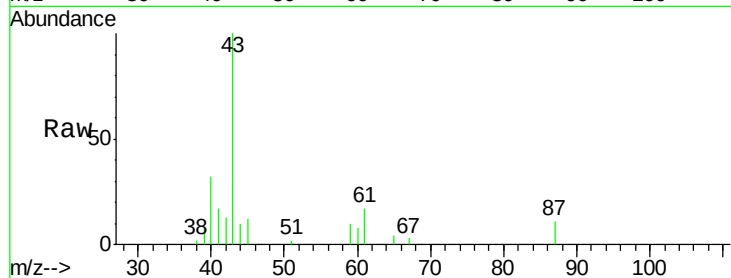
Tot Ion: 43 Resp: 35919

Ion Ratio Lower Upper

43 100

61 16.1 17.4 26.0#

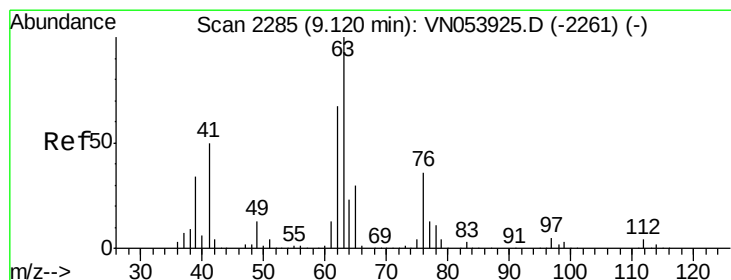
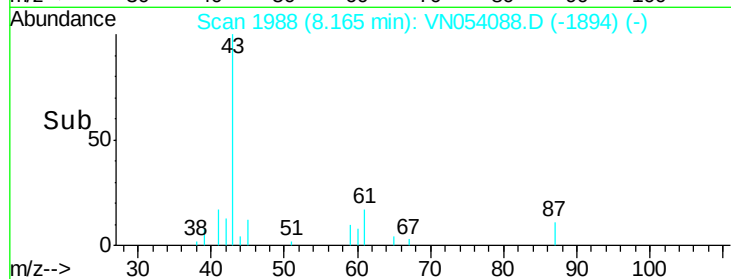
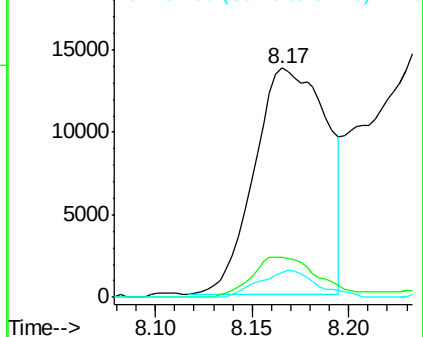
87 9.4 11.5 17.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.275 ug/l

RT: 9.27 min Scan# 2333

Delta R.T. 0.15 min

Lab File: VN054088.D

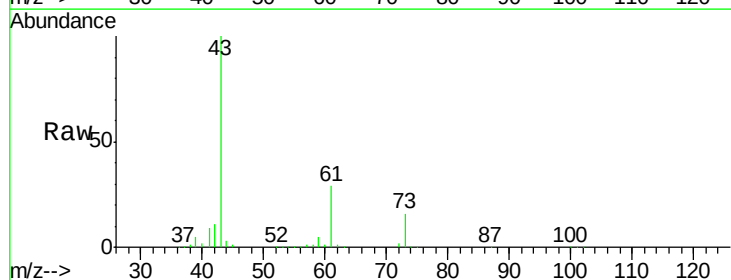
Acq: 5 Mar 2019 1:22

Tgt Ion: 63 Resp: 2379

Ion Ratio Lower Upper

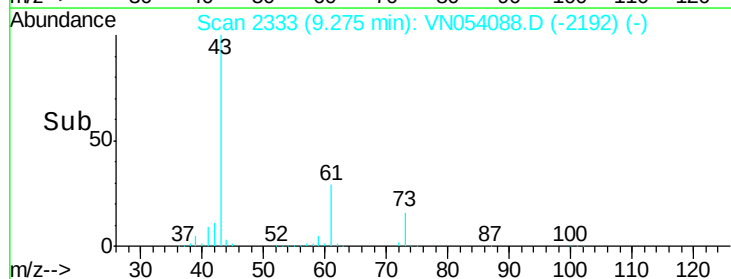
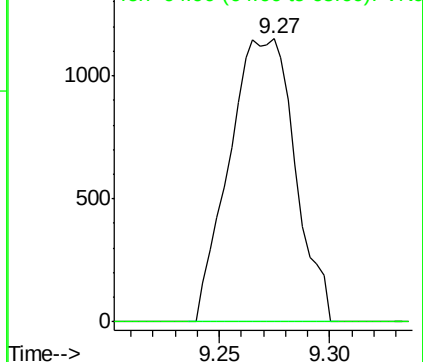
63 100

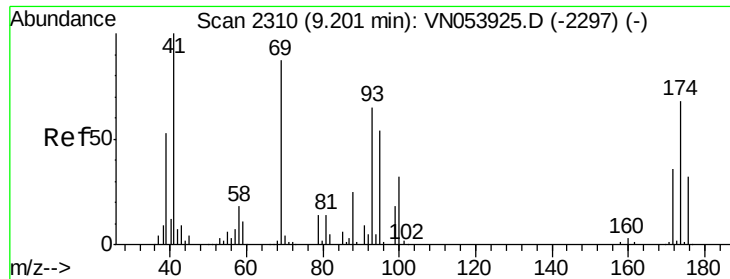
65 0.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

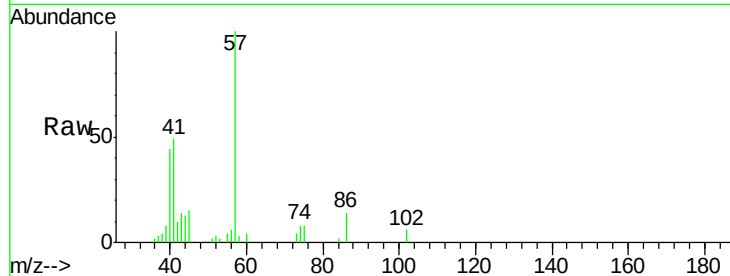
Ion 64.90 (64.60 to 65.60): VN0



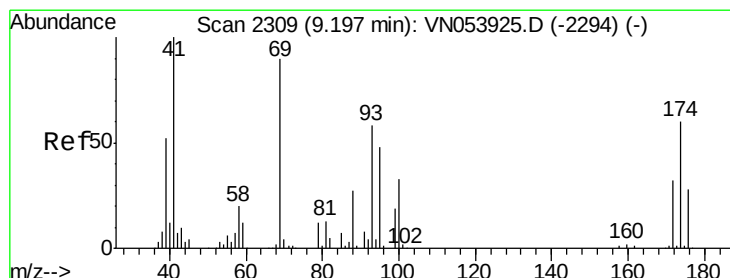
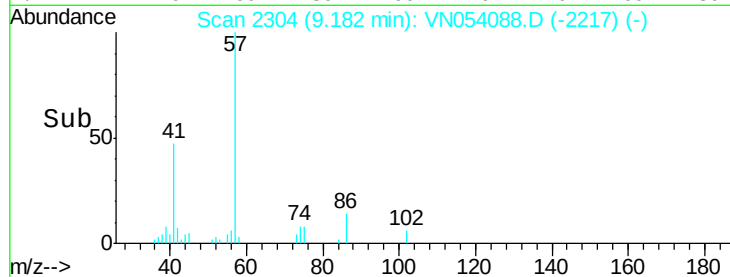
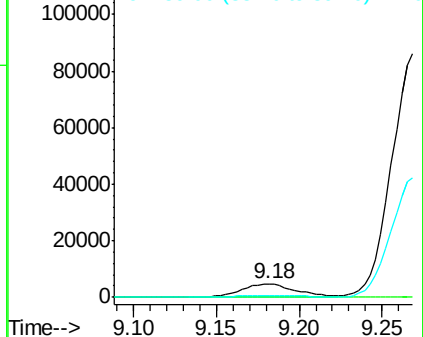


#48
Methvl methacrylate
Concen: 1.915 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN054088.D
Acq: 5 Mar 2019 1:22

Tot Ion: 41 Resp: 11079
Ion Ratio Lower Upper
41 100
69 0.0 74.8 112.2#
39 0.0 39.0 58.6#

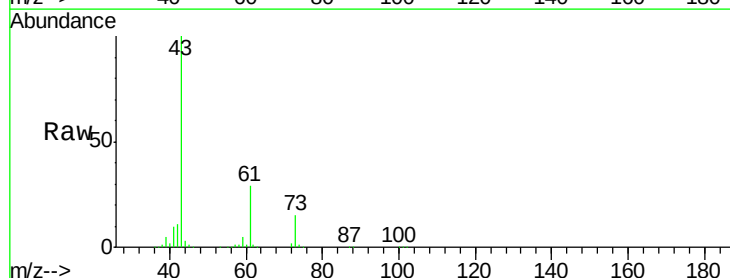


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

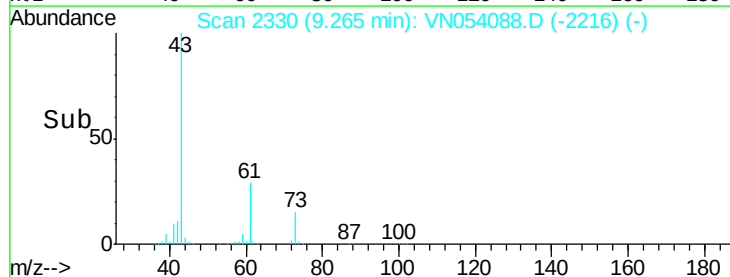
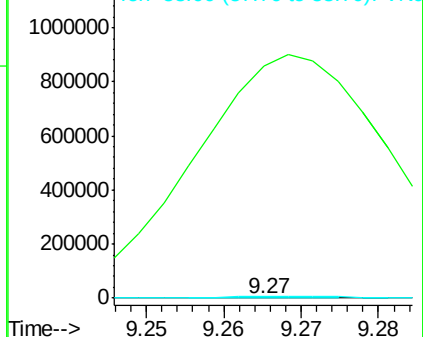


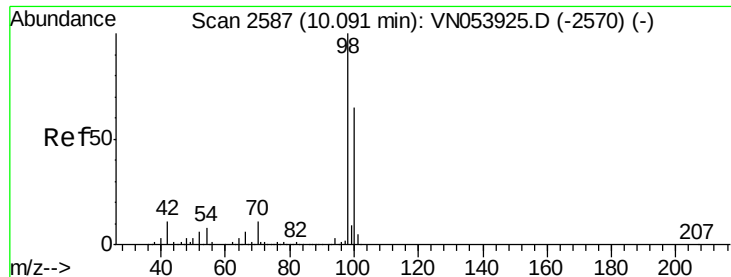
#49
1,4-Dioxane
Concen: 1.812 ug/l
RT: 9.27 min Scan# 2330
Delta R.T. 0.07 min
Lab File: VN054088.D
Acq: 5 Mar 2019 1:22

Tgt Ion: 88 Resp: 142
Ion Ratio Lower Upper
88 100
43 1275888.7 21.2 31.8#
58 6544.4 54.2 81.2#



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





#50

Toluene-d8

Concen: 52.564 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054088.D

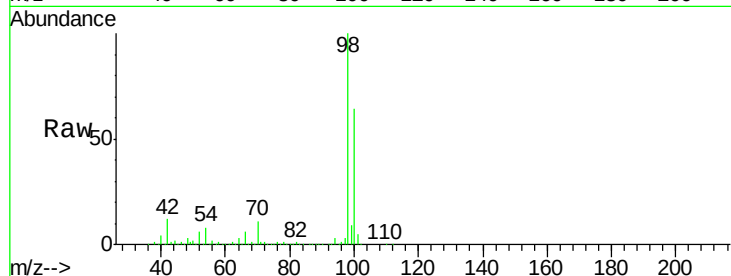
Acq: 5 Mar 2019 1:22

Tot Ion: 98 Resp: 1419362

Ion Ratio Lower Upper

98 100

100 64.3 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN053925.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN053925.D (-2570) (-)

10.09

800000

600000

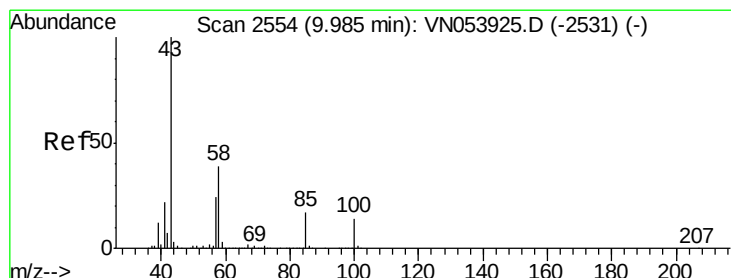
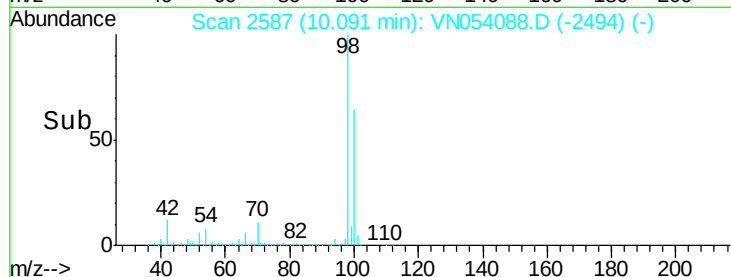
400000

200000

0

Time-->

10.00 10.10 10.20 10.30



#51

4-Methyl-2-Pentanone

Concen: 1.535 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054088.D

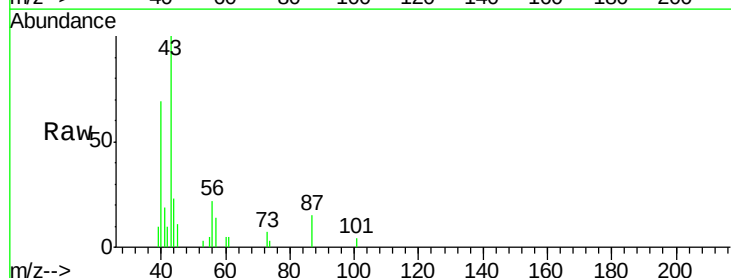
Acq: 5 Mar 2019 1:22

Tgt Ion: 43 Resp: 9923

Ion Ratio Lower Upper

43 100

58 0.0 32.7 49.1#



Abundance Ion 43.00 (42.70 to 43.70): VN053925.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN053925.D (-2531) (-)

10.03

6000

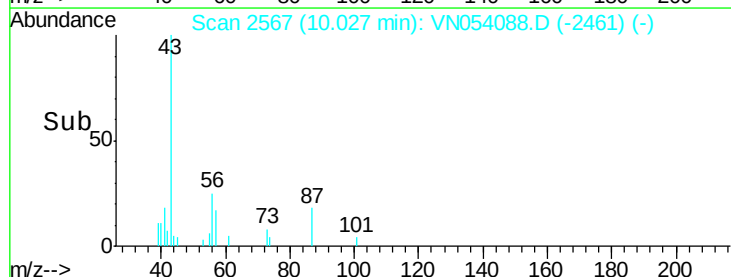
4000

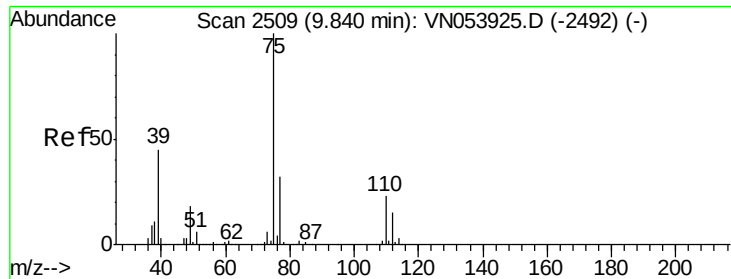
2000

0

Time-->

10.00 10.05





#54

cis-1,3-Dichloropropene

Concen: 5.562 ug/l

RT: 9.90 min Scan# 2529

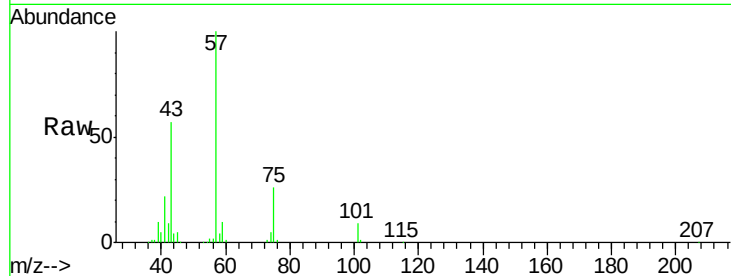
Delta R.T. 0.06 min

Lab File: VN054088.D

Acq: 5 Mar 2019 1:22

Tot Ion: 75 Resp: 67485

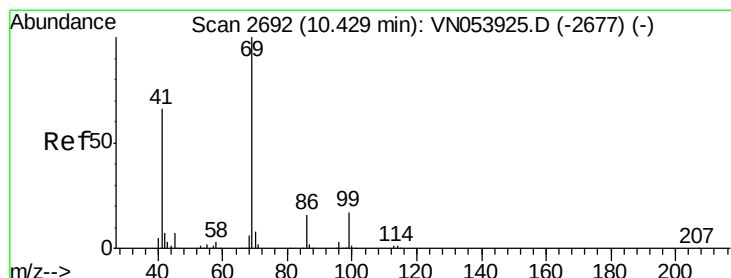
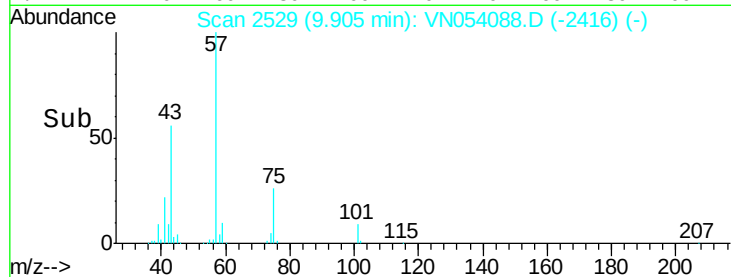
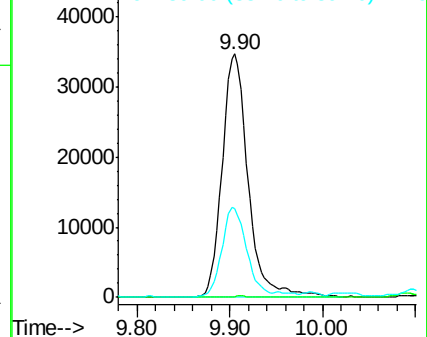
Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.8	38.6#
39	36.6	31.4	47.0



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: 2.123 ug/l

RT: 10.54 min Scan# 2728

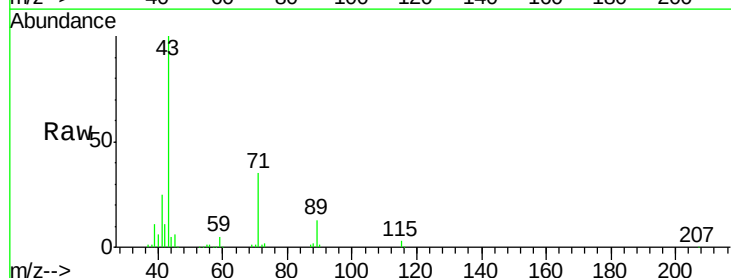
Delta R.T. 0.12 min

Lab File: VN054088.D

Acq: 5 Mar 2019 1:22

Tgt Ion: 69 Resp: 1613

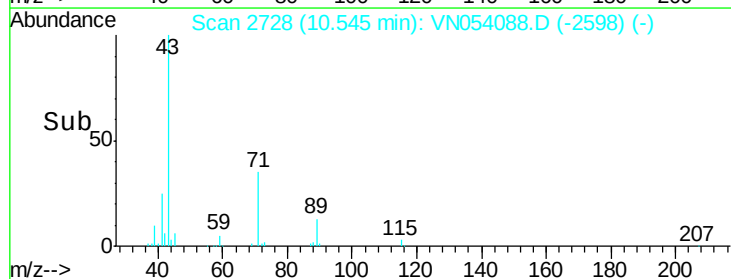
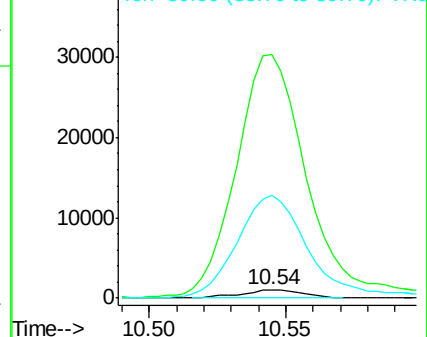
Ion	Ratio	Lower	Upper
69	100		
41	3435.2	47.5	71.3#
39	1441.6	23.4	35.0#

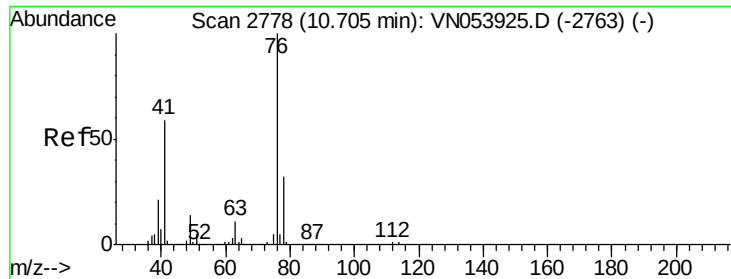


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

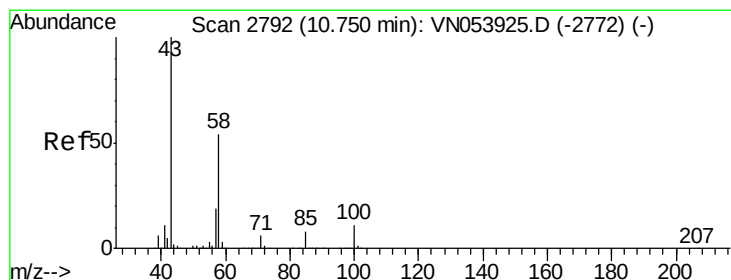
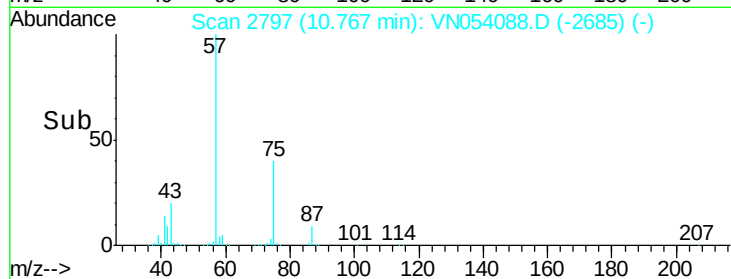
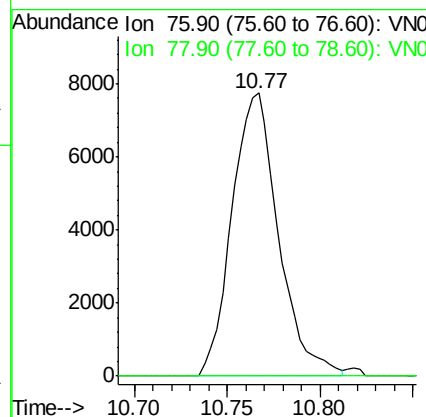
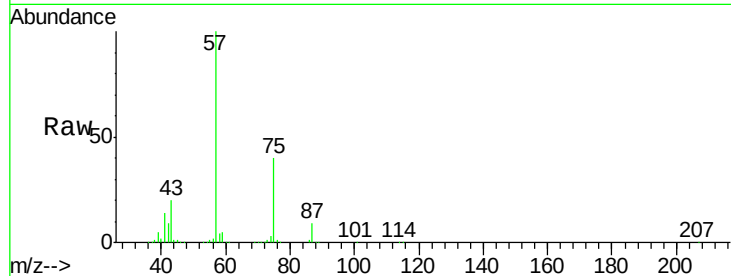
Ion 39.00 (38.70 to 39.70): VN0





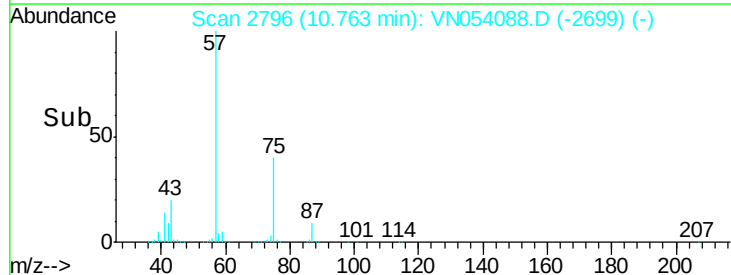
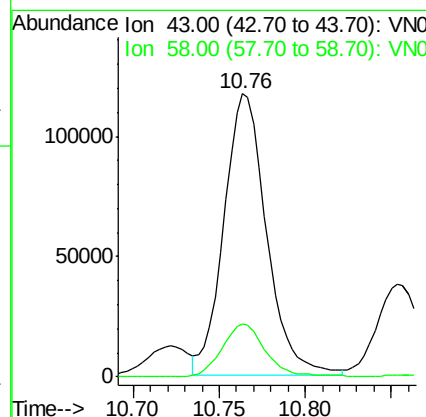
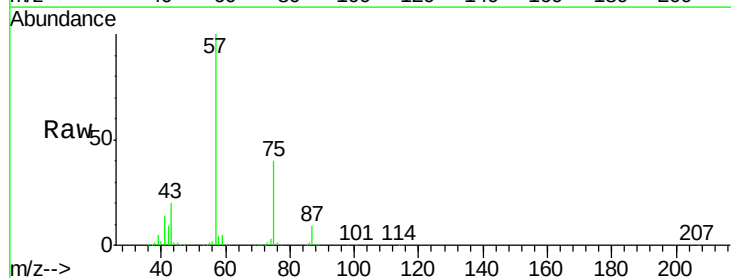
#57
 1,3-Dichloropropane
 Concen: 1.133 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN054088.D
 Acq: 5 Mar 2019 1:22

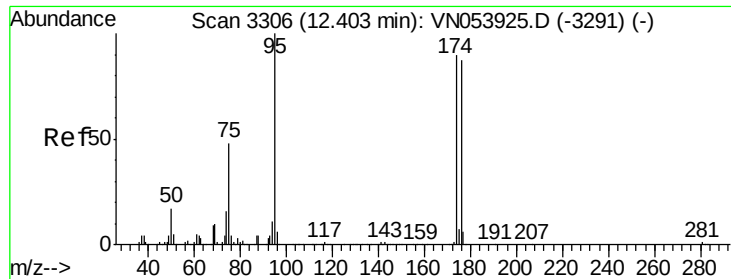
Tot Ion: 76 Resp: 13494
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.2 37.8#



#59
 2-Hexanone
 Concen: 48.466 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN054088.D
 Acq: 5 Mar 2019 1:22

Tgt Ion: 43 Resp: 203711
 Ion Ratio Lower Upper
 43 100
 58 19.3 29.1 87.4#





#62

4-Bromofluorobenzene

Concen: 52.247 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054088.D

Acq: 5 Mar 2019 1:22

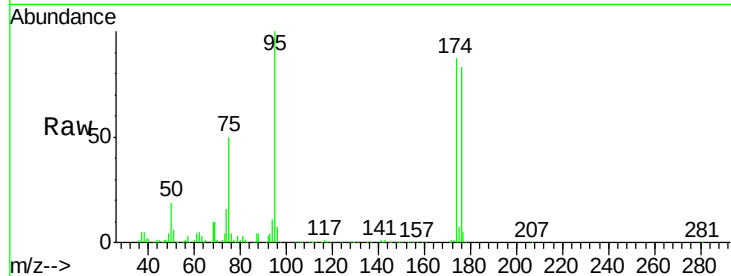
Tot Ion: 95 Resp: 470037

Ion Ratio Lower Upper

95 100

174 86.2 0.0 188.8

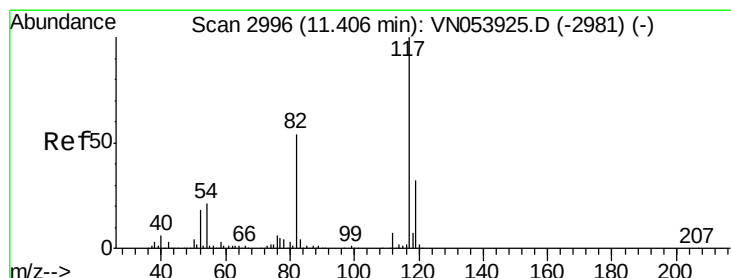
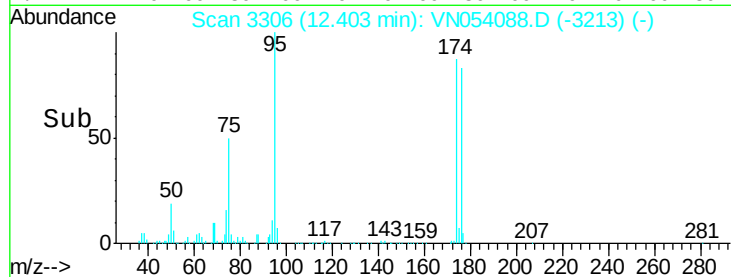
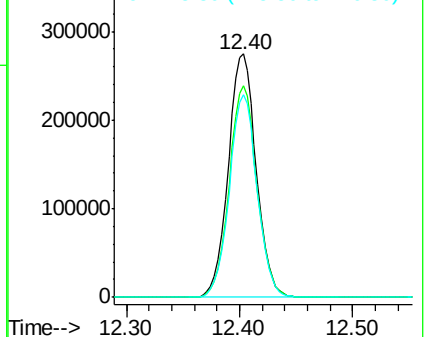
176 82.8 0.0 182.6



Abundance Ion 94.90 (94.60 to 95.60): VN054088.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN054088.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN054088.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054088.D

Acq: 5 Mar 2019 1:22

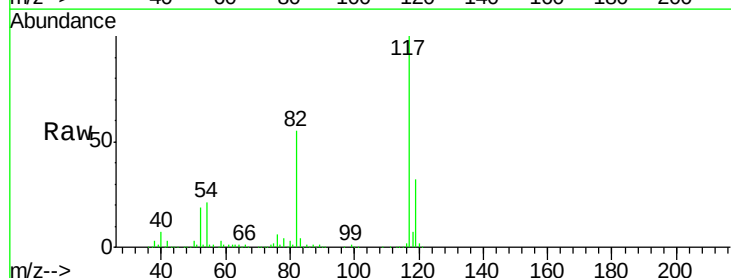
Tgt Ion: 117 Resp: 1096981

Ion Ratio Lower Upper

117 100

82 55.5 41.4 62.2

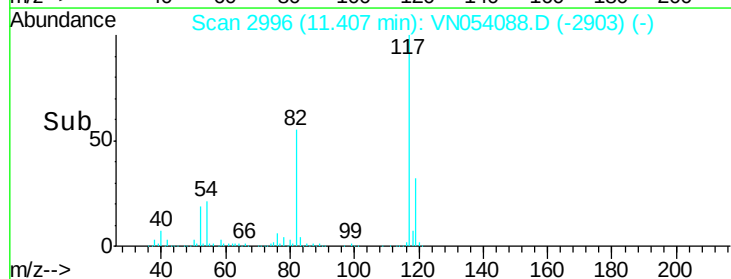
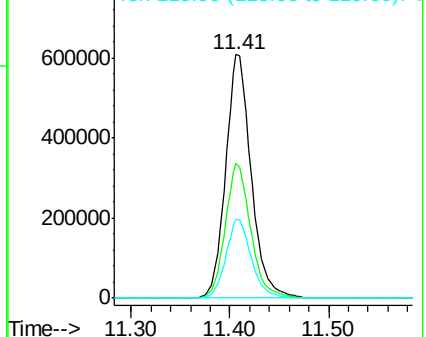
119 32.5 25.3 37.9

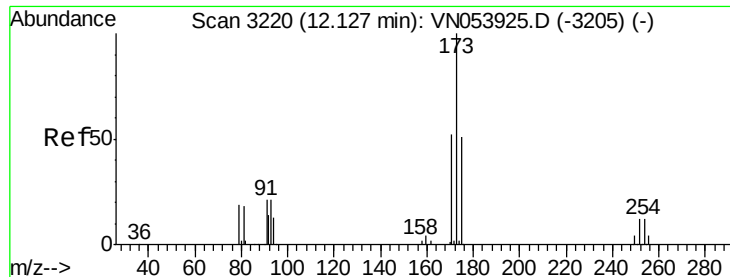


Abundance Ion 116.90 (116.60 to 117.60): VN054088.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054088.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054088.D (-2903) (-)





#71

Bromoform

Concen: 0.586 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054088.D

Acq: 5 Mar 2019 1:22

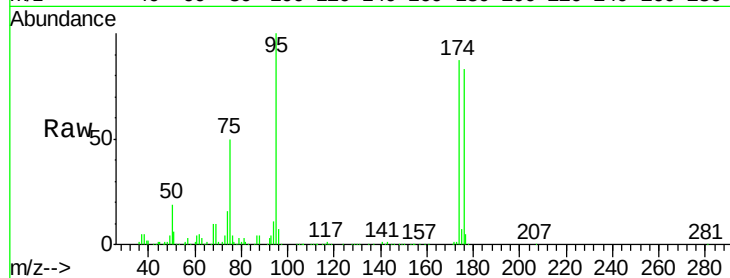
Tot Ion:173 Resp: 3402

Ion Ratio Lower Upper

173 100

175 772.8 24.3 72.8#

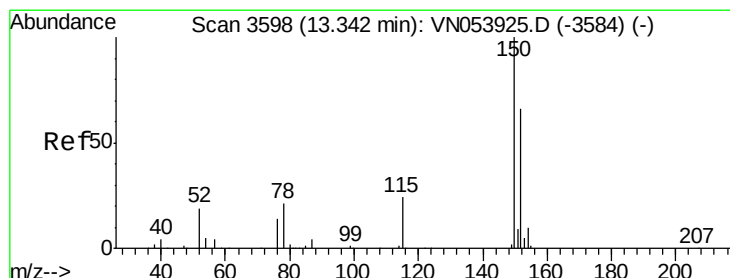
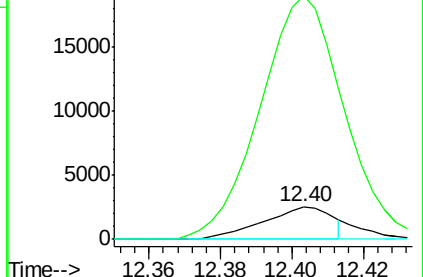
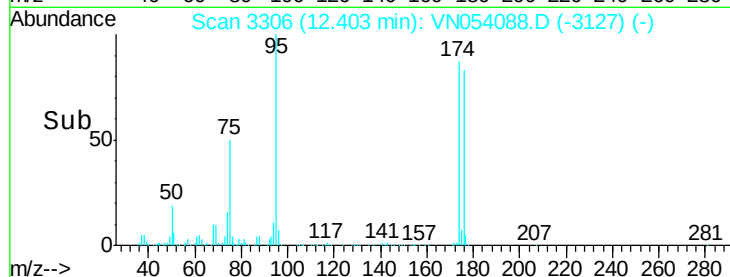
254 0.0 0.2 0.2#



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054088.D

Acq: 5 Mar 2019 1:22

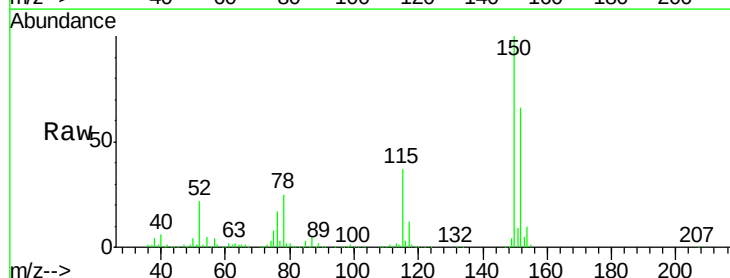
Tgt Ion:152 Resp: 394888

Ion Ratio Lower Upper

152 100

115 56.3 27.2 81.6

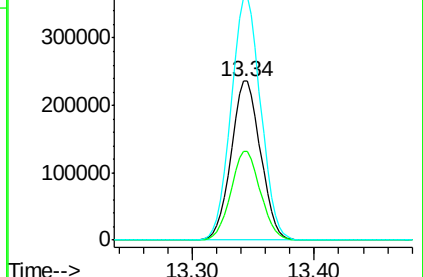
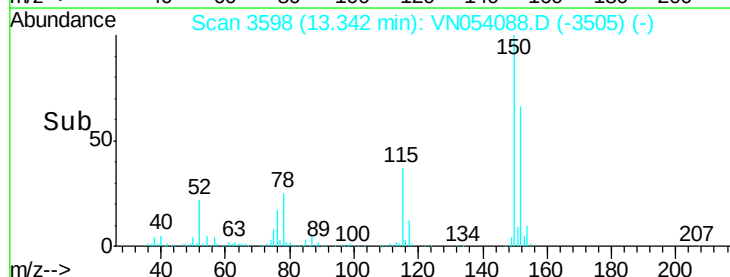
150 154.5 0.0 348.2

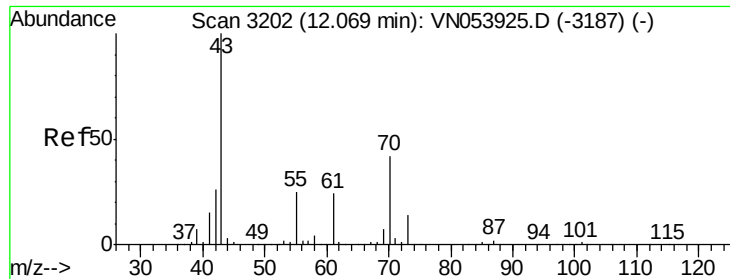


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.383 ug/l

RT: 11.88 min Scan# 3142

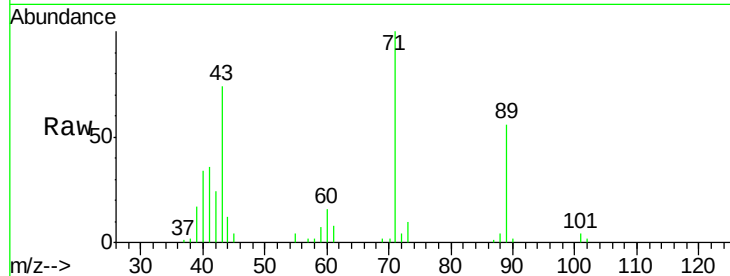
Delta R.T. -0.19 min

Lab File: VN054088.D

Acq: 5 Mar 2019 1:22

Tot Ion: 43 Resp: 19202

Ion	Ratio	Lower	Upper
43	100		
70	2.0	37.4	56.2#
55	5.8	21.4	32.0#
61	10.3	20.9	31.3#

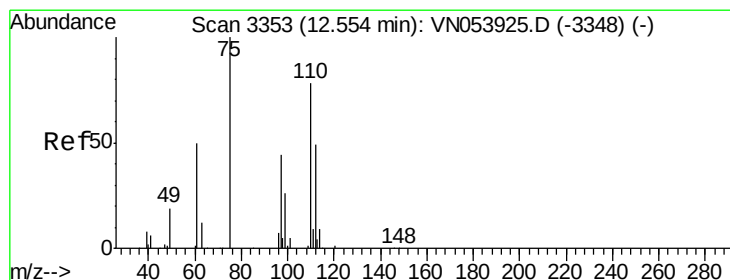
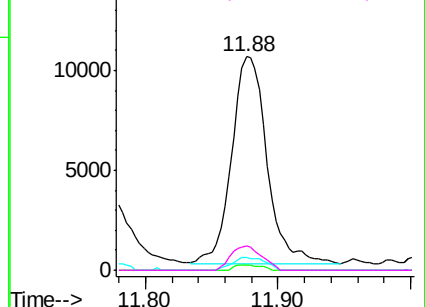
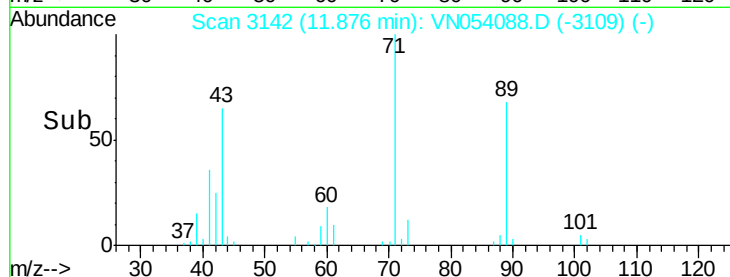


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 36.349 ug/l

RT: 12.40 min Scan# 3306

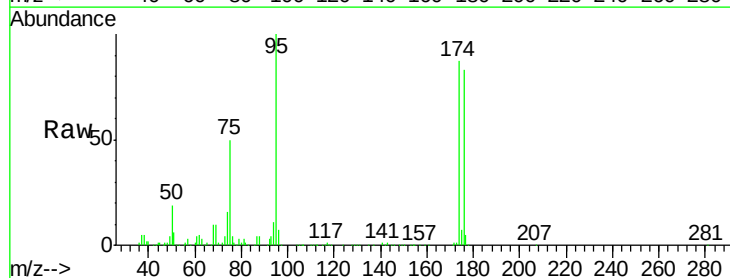
Delta R.T. -0.15 min

Lab File: VN054088.D

Acq: 5 Mar 2019 1:22

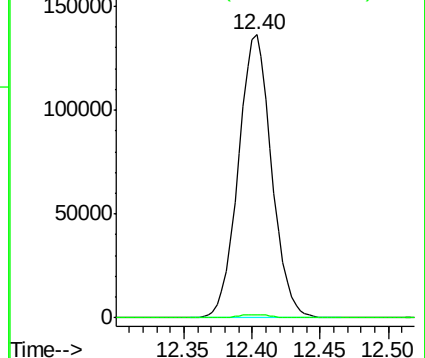
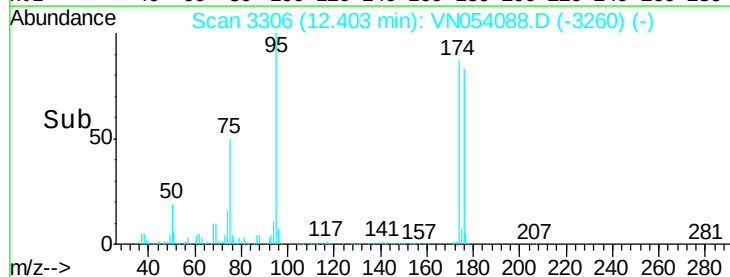
Tgt Ion: 75 Resp: 230260

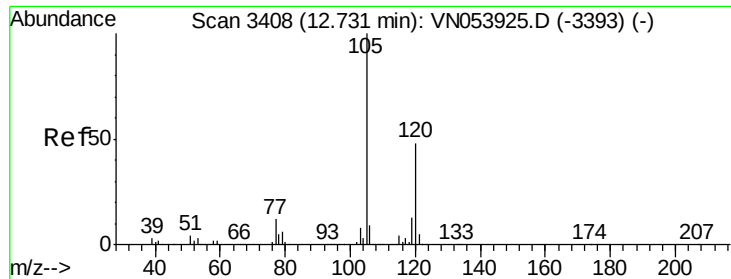
Ion	Ratio	Lower	Upper
75	100		
77	1.3	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

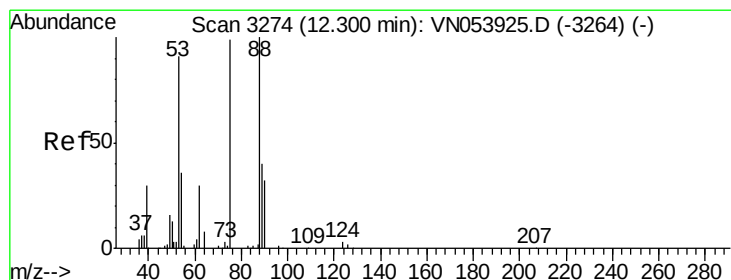
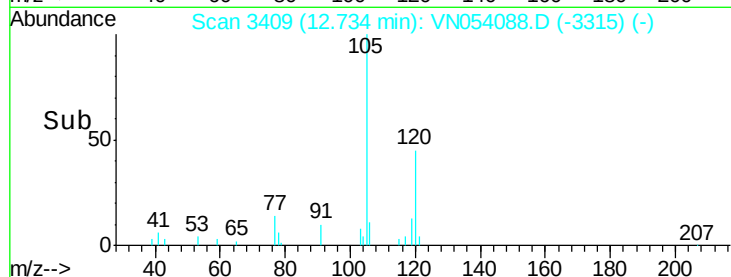
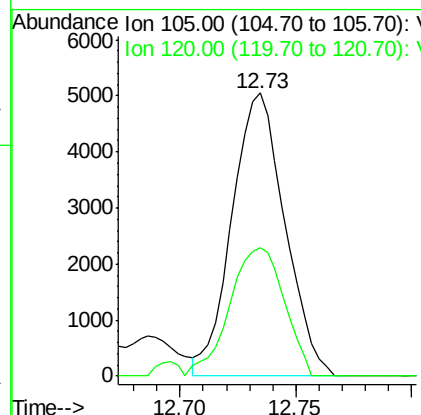
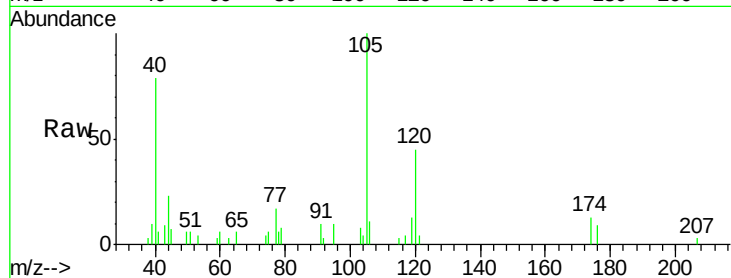
Ion 77.00 (76.70 to 77.70): VN0





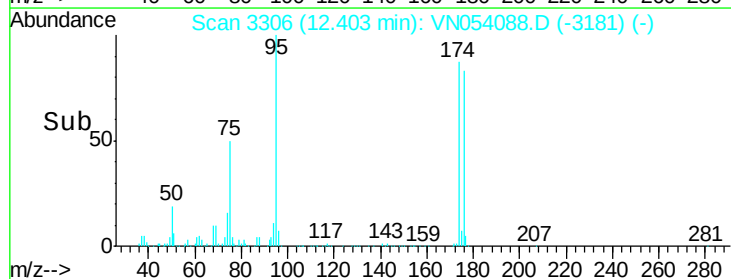
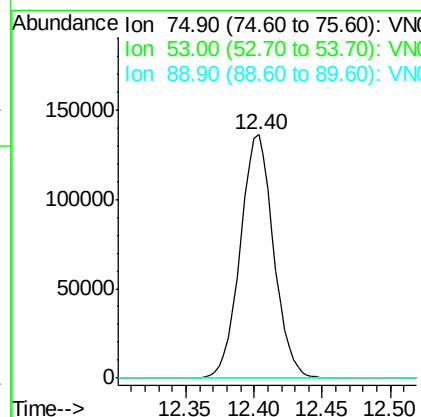
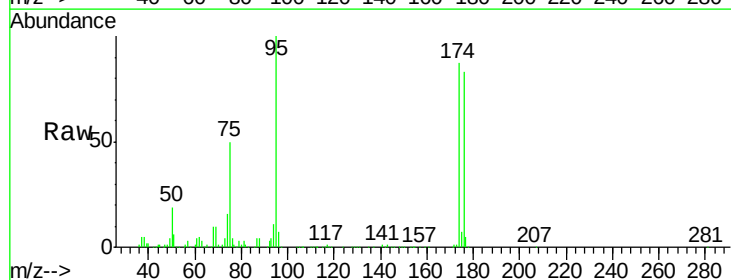
#80
 1,3,5-Trimethylbenzene
 Concen: 0.318 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN054088.D
 Acq: 5 Mar 2019 1:22

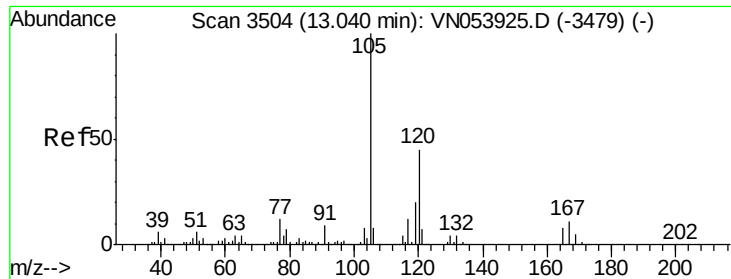
Tot Ion:105 Resp: 8005
 Ion Ratio Lower Upper
 105 100
 120 46.7 25.1 75.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 114.886 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN054088.D
 Acq: 5 Mar 2019 1:22

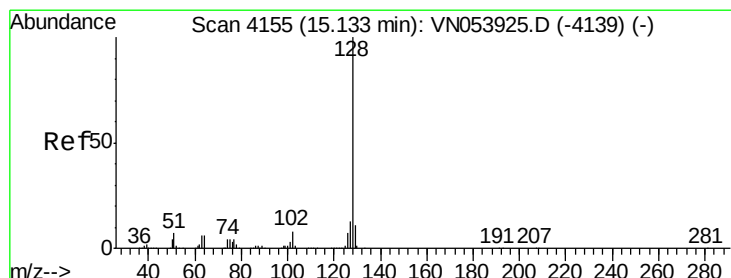
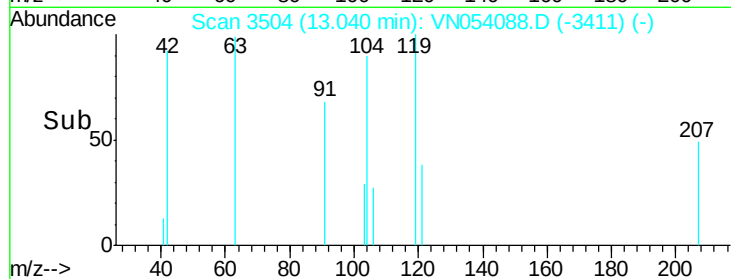
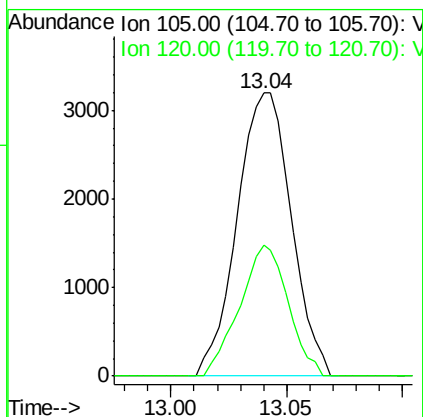
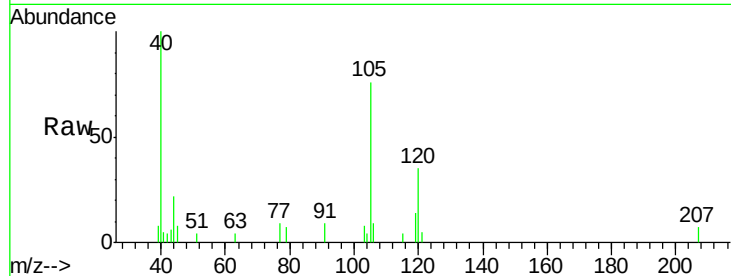
Tgt Ion: 75 Resp: 230260
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.6 102.8#
 89 0.0 35.3 52.9#





#84
 1,2,4-Trimethylbenzene
 Concen: 0.207 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN054088.D
 Acq: 5 Mar 2019 1:22

Tot Ion:105 Resp: 5192
 Ion Ratio Lower Upper
 105 100
 120 41.4 23.2 69.5



#95
 Naphthalene
 Concen: 3.368 ug/l
 RT: 15.13 min Scan# 4153
 Delta R.T. -0.01 min
 Lab File: VN054088.D
 Acq: 5 Mar 2019 1:22

Tgt Ion:128 Resp: 2605
 Ion Ratio Lower Upper
 128 100
 127 11.8 10.2 15.2
 129 11.7 8.6 12.8

