

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030419\
 Data File : VN054058.D
 Acq On : 4 Mar 2019 10:15
 Operator : JC/SP
 Sample : VN0304WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 04 23:24:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 01 11:11:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	110766	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	582551	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	485965	30.00	ug/l	0.00

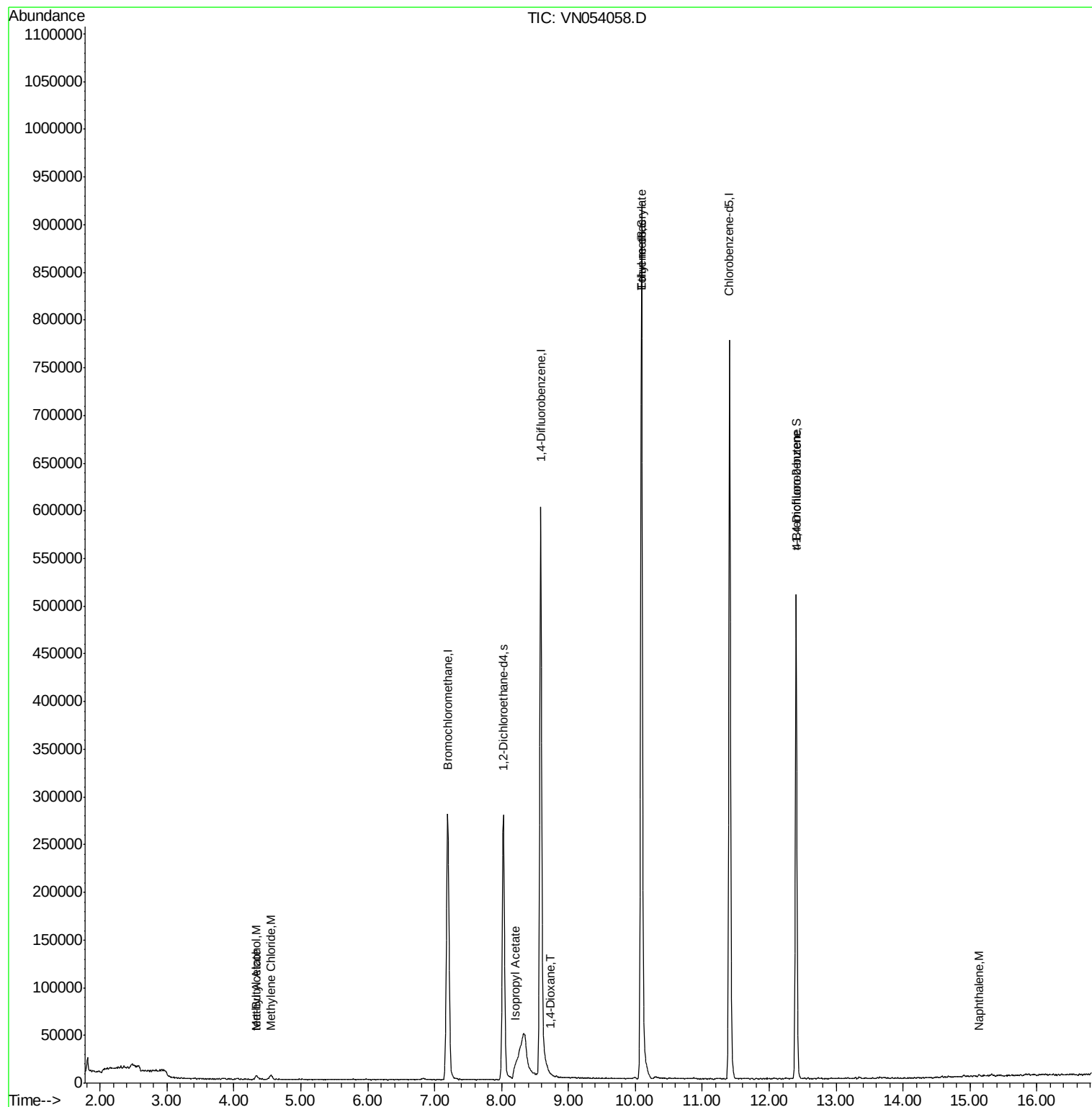
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	240444	30.91	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	103.03%
60) 4-Bromofluorobenzene	12.40	95	176312	23.70	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	79.00%
63) Toluene-d8	10.09	98	703613	30.09	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.30%

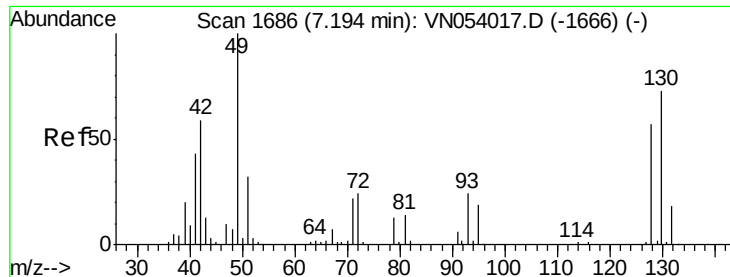
Target Compounds						Ovalue
12) Methyl Acetate	4.34	43	6179	1.200	ug/l	97
18) Methylene Chloride	4.56	84	3287	0.466	ug/l #	58
23) tert-Butyl Alcohol	4.34	59	256	0.578	ug/l #	100
44) Isopropyl Acetate	8.20	43	7817	0.738	ug/l #	59
45) 1,4-Dioxane	8.74	88	81	32.742	ug/l #	1
51) Ethyl methacrylate	10.09	69	2133	0.297	ug/l	96
77) t-1,4-Dichloro-2-butene	12.40	75	88300	48.689	ug/l #	11
91) Naphthalene	15.13	128	1848	7.120	ug/l #	78

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

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Mar 01 11:11:48 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN054058.D

Acq: 4 Mar 2019 10:15

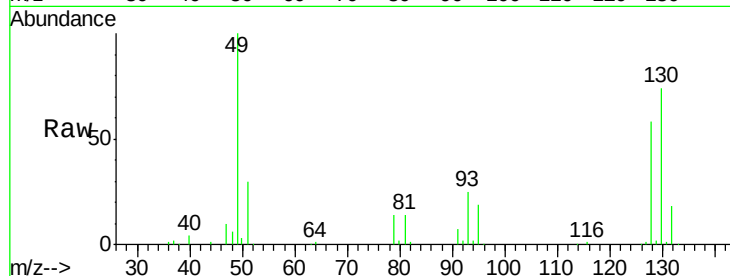
Tot Ion:128 Resp: 110766

Ion Ratio Lower Upper

128 100

49 175.3 0.0 431.8

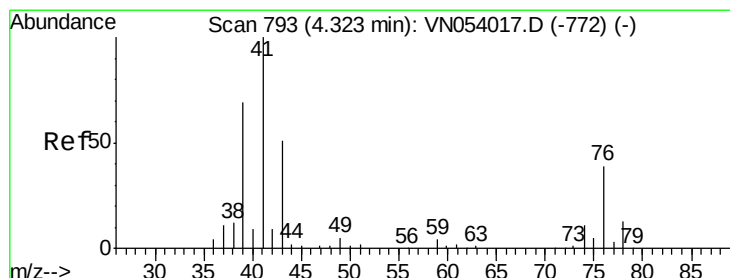
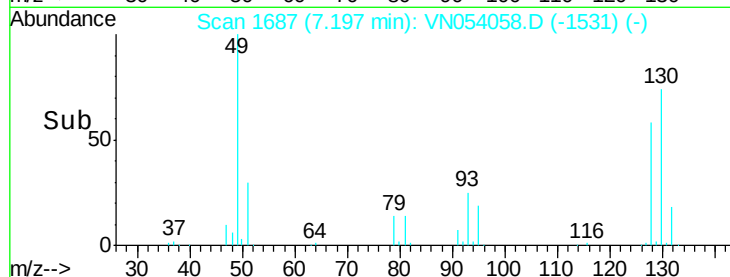
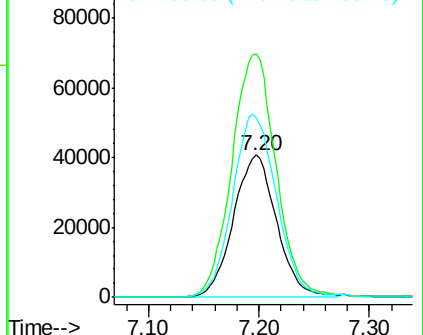
130 130.8 0.0 317.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#12

Methyl Acetate

Concen: 1.200 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.02 min

Lab File: VN054058.D

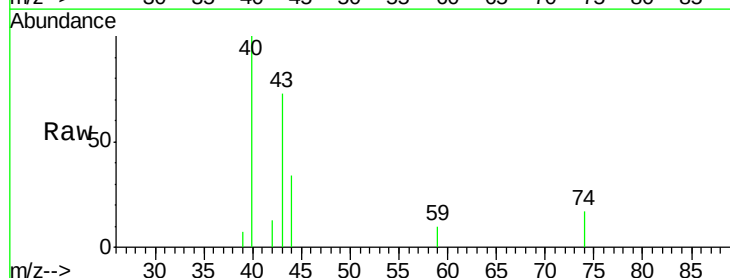
Acq: 4 Mar 2019 10:15

Tgt Ion: 43 Resp: 6179

Ion Ratio Lower Upper

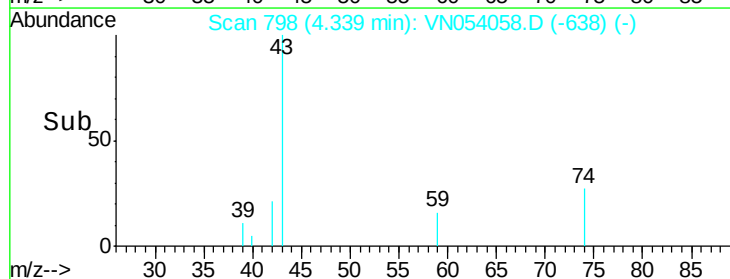
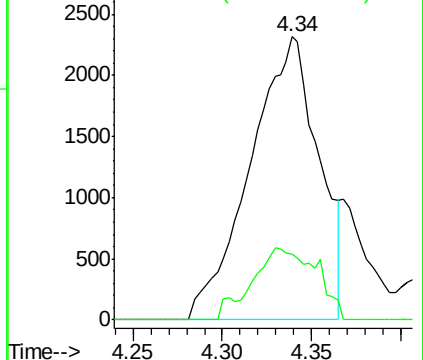
43 100

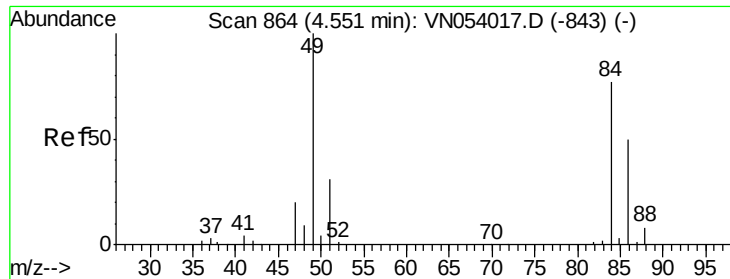
74 25.3 18.9 28.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

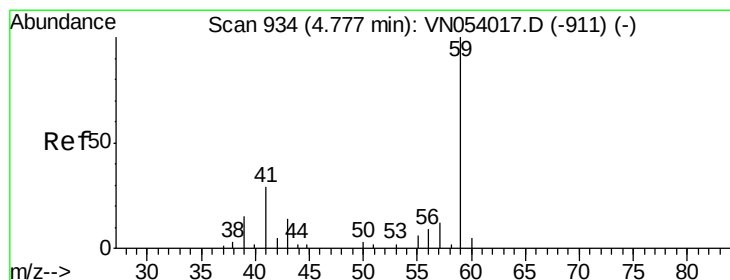
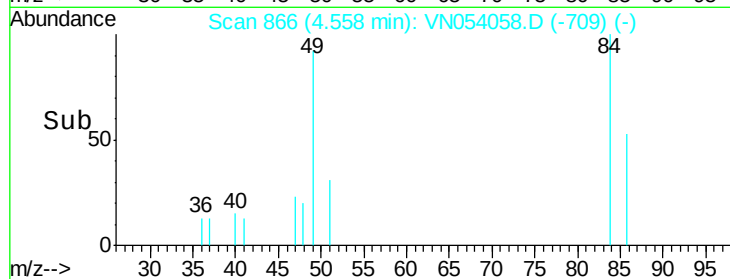
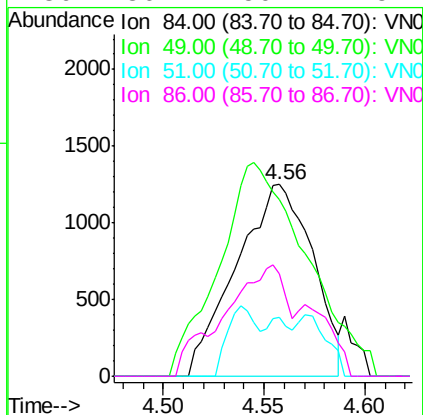
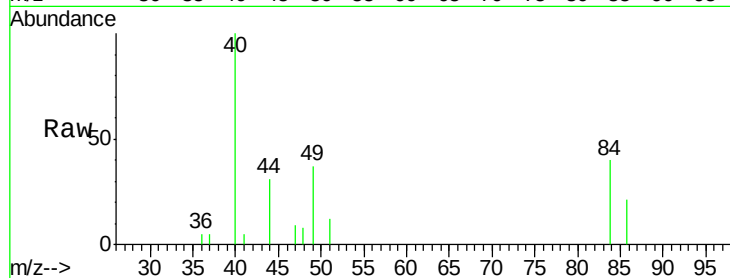
Ion 74.00 (73.70 to 74.70): VN0





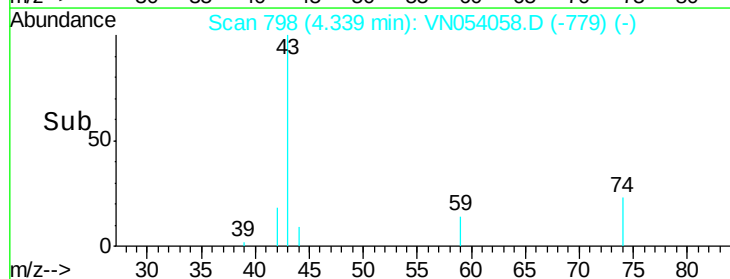
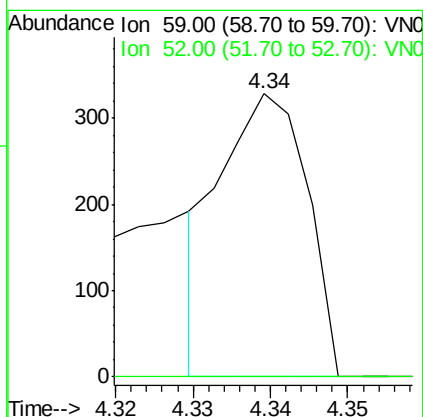
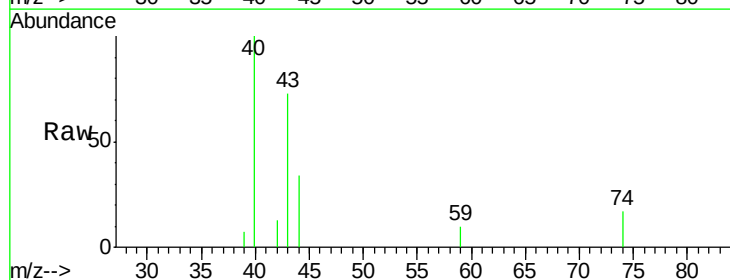
#18
Methylene Chloride
Concen: 0.466 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN054058.D
Acq: 4 Mar 2019 10:15

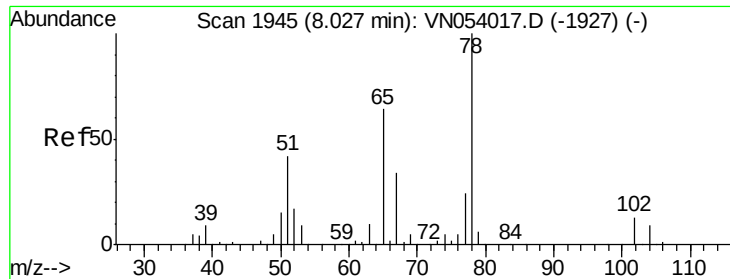
Tot Ion: 84 Resp: 3287
Ion Ratio Lower Upper
84 100
49 64.9 101.4 152.0#
51 30.7 31.7 47.5#
86 36.1 50.1 75.1#



#23
tert-Butyl Alcohol
Concen: 0.578 ug/l
RT: 4.34 min Scan# 798
Delta R.T. -0.44 min
Lab File: VN054058.D
Acq: 4 Mar 2019 10:15

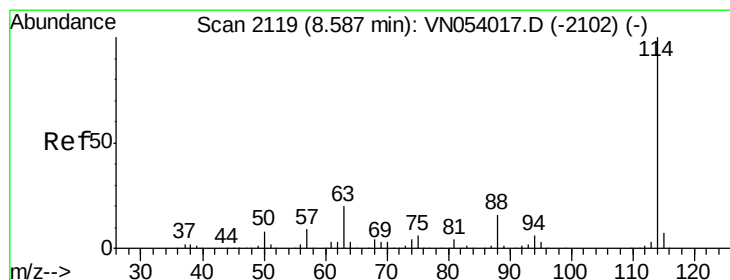
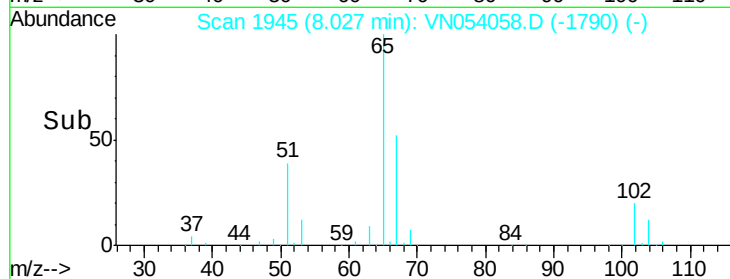
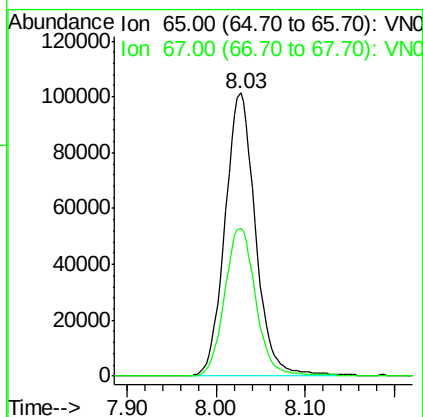
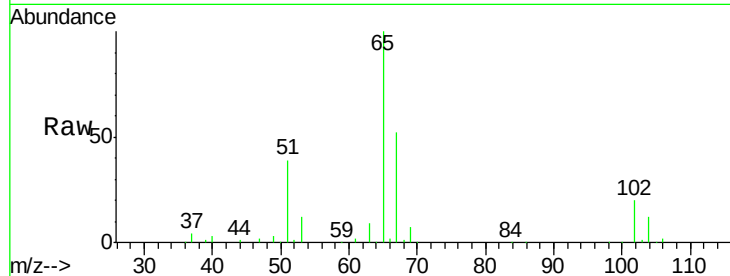
Tgt Ion: 59 Resp: 256
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





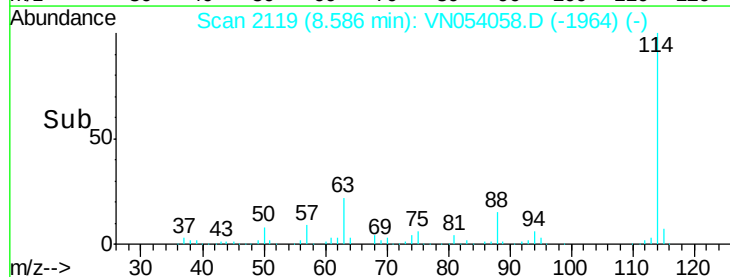
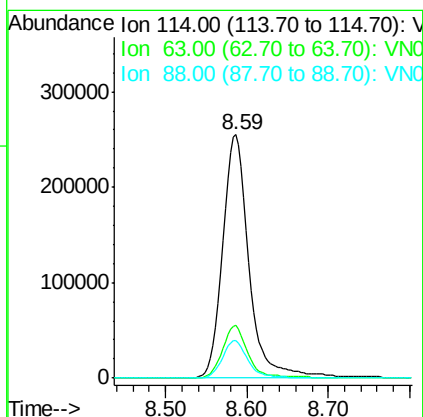
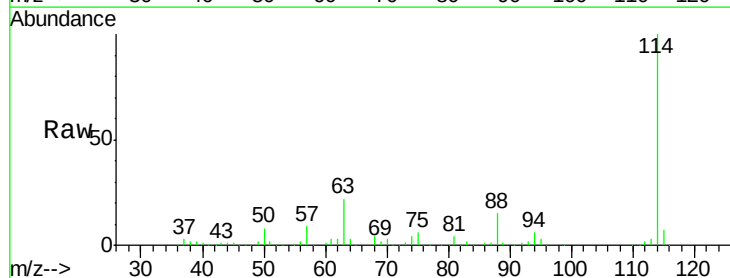
#27
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054058.D
 Acq: 4 Mar 2019 10:15

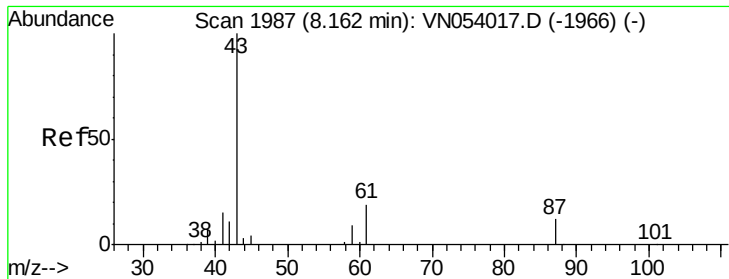
Tot Ion: 65 Resp: 240444
 Ion Ratio Lower Upper
 65 100
 67 52.8 44.6 66.8



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054058.D
 Acq: 4 Mar 2019 10:15

Tgt Ion: 114 Resp: 582551
 Ion Ratio Lower Upper
 114 100
 63 21.1 16.9 25.3
 88 15.0 12.8 19.2





#44

Isopropyl Acetate

Concen: 0.738 ug/l

RT: 8.20 min Scan# 1998

Delta R.T. 0.04 min

Lab File: VN054058.D

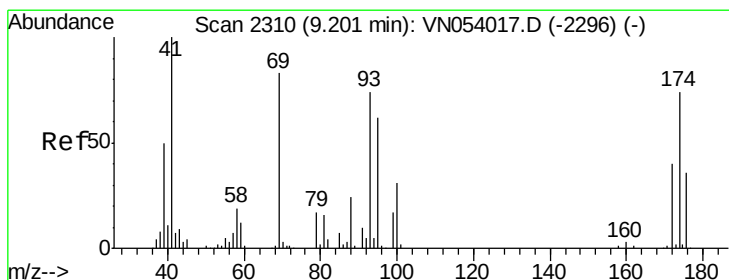
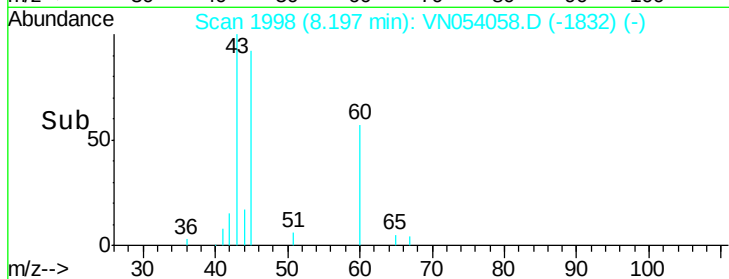
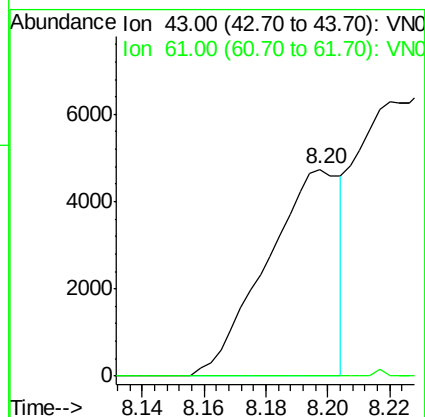
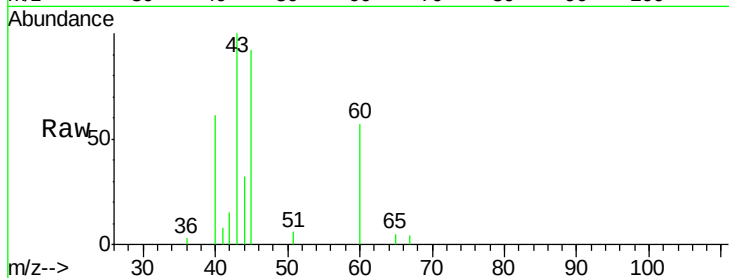
Acq: 4 Mar 2019 10:15

Tot Ion: 43 Resp: 7817

Ion Ratio Lower Upper

43 100

61 1.3 16.0 24.0#



#45

1,4-Dioxane

Concen: 32.742 ug/l

RT: 8.74 min Scan# 2166

Delta R.T. -0.46 min

Lab File: VN054058.D

Acq: 4 Mar 2019 10:15

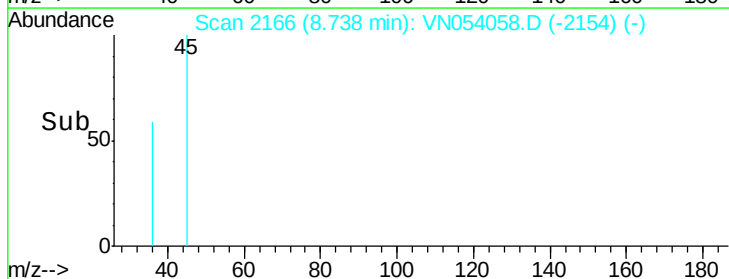
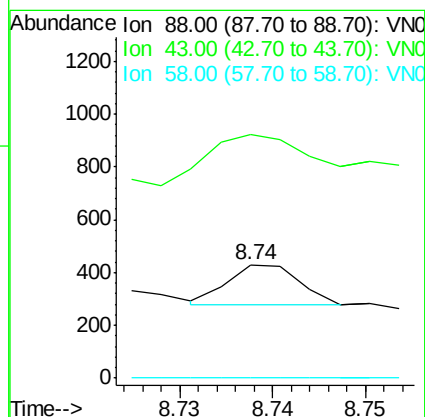
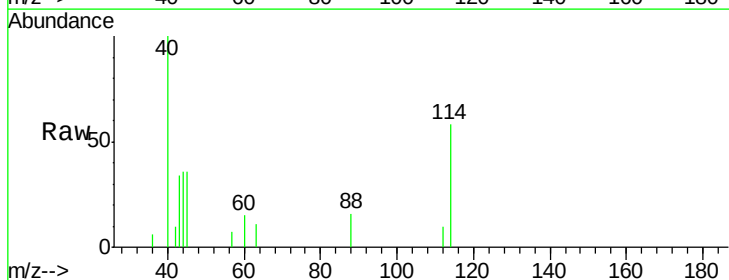
Tgt Ion: 88 Resp: 81

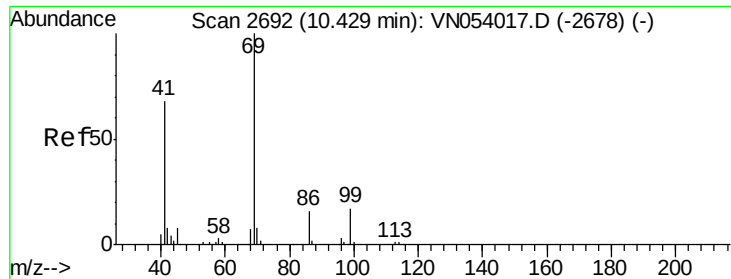
Ion Ratio Lower Upper

88 100

43 188.9 29.5 44.3#

58 0.0 61.5 92.3#





#51

Ethyl methacrylate

Concen: 0.297 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. -0.33 min

Lab File: VN054058.D

Acq: 4 Mar 2019 10:15

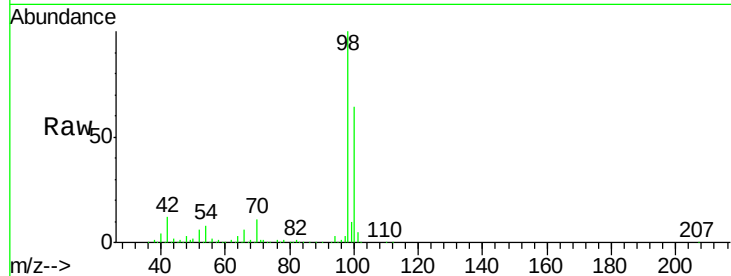
Tot Ion: 69 Resp: 2133

Ion	Ratio	Lower	Upper
69	100		
41	70.4	34.4	103.3
39	36.9	16.4	49.2

69 100

41 70.4 34.4 103.3

39 36.9 16.4 49.2

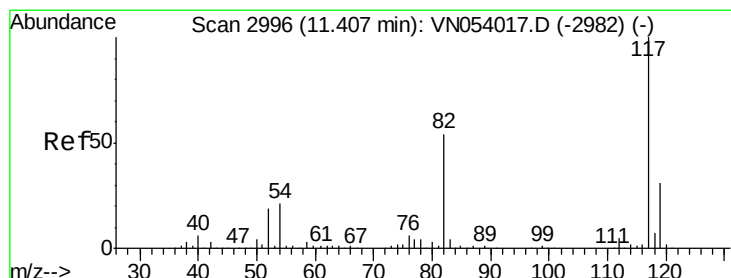
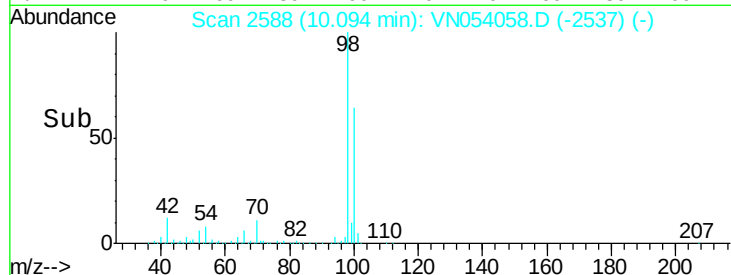
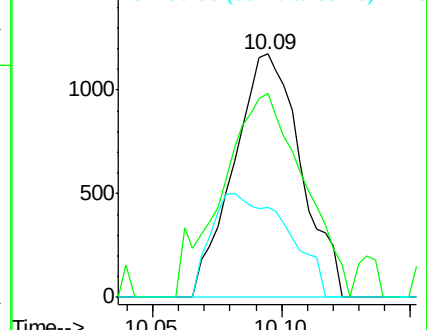


Abundance

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

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054058.D

Acq: 4 Mar 2019 10:15

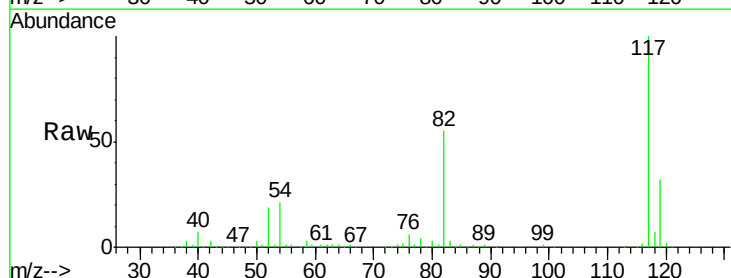
Tgt Ion: 117 Resp: 485965

Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.2	66.2
119	32.0	25.4	38.2

117 100

82 54.7 44.2 66.2

119 32.0 25.4 38.2

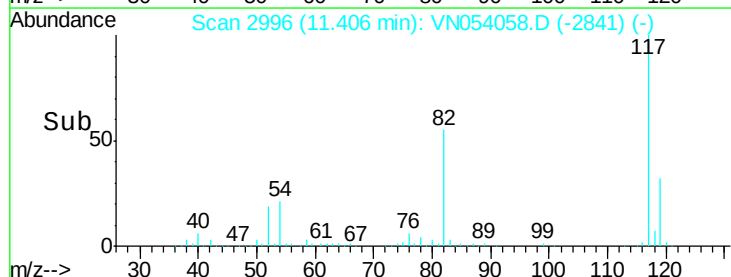
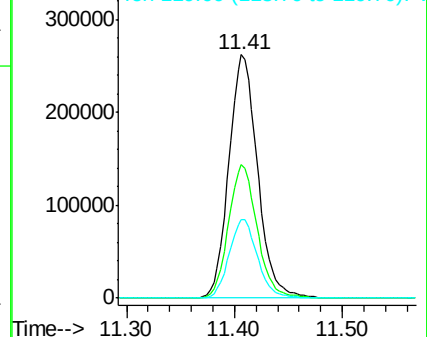


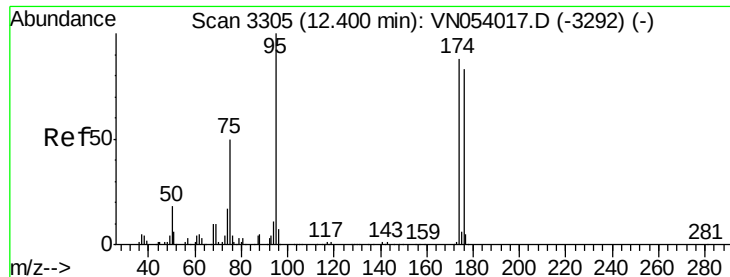
Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 119.00 (118.70 to 119.70): V





#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054058.D

Acq: 4 Mar 2019 10:15

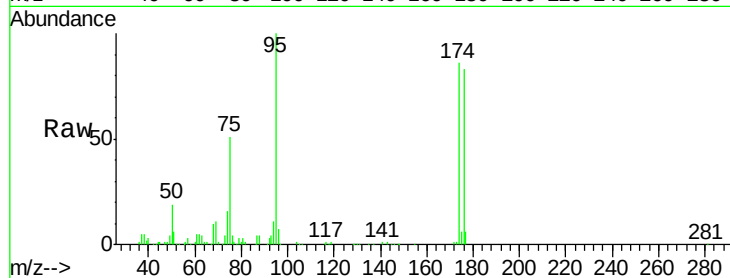
Tot Ion: 95 Resp: 176312

Ion Ratio Lower Upper

95 100

174 88.3 67.9 101.9

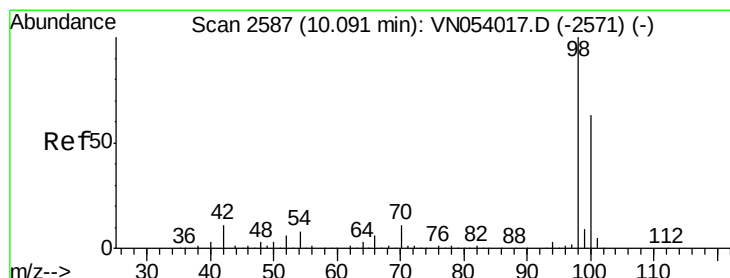
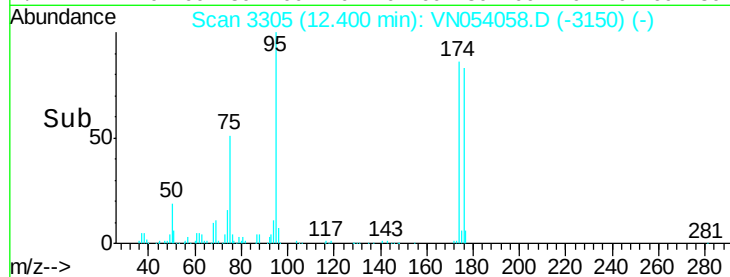
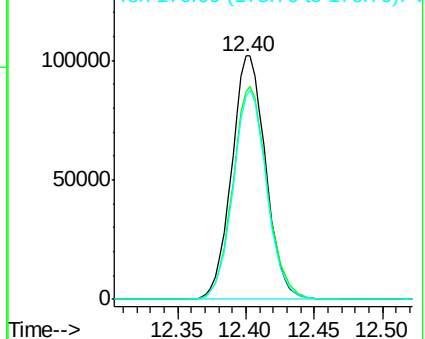
176 84.5 66.4 99.6



Abundance Ion 95.00 (94.70 to 95.70): VN054017.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN054017.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN054017.D (-3292) (-)



#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054058.D

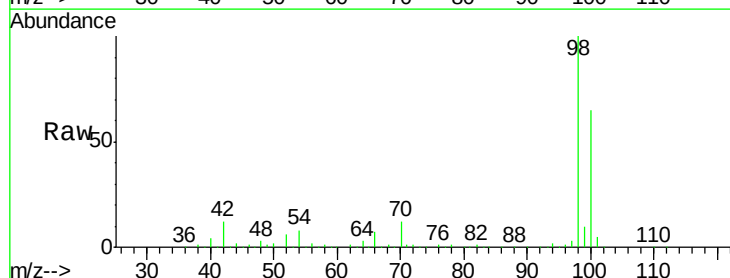
Acq: 4 Mar 2019 10:15

Tgt Ion: 98 Resp: 703613

Ion Ratio Lower Upper

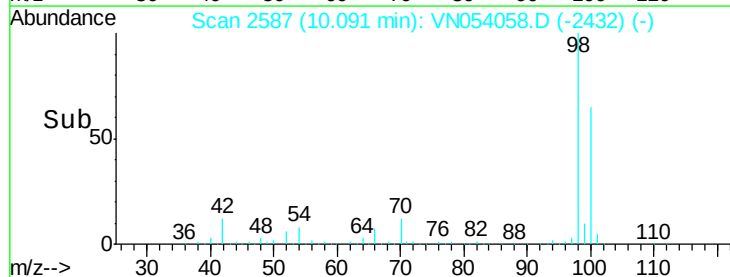
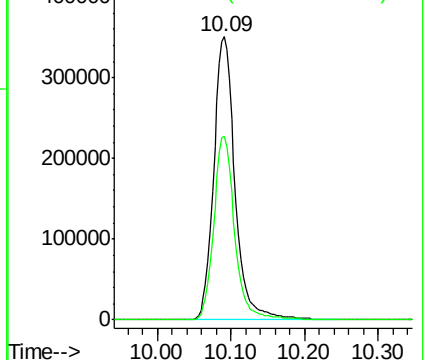
98 100

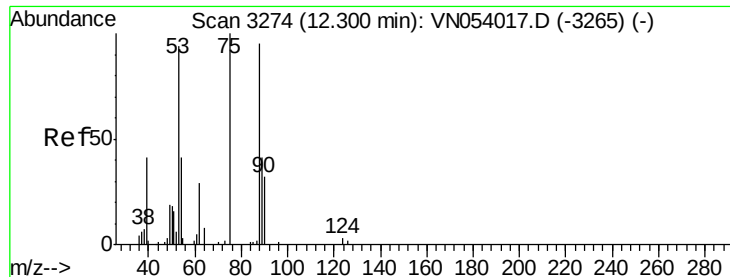
100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN054017.D (-2571) (-)

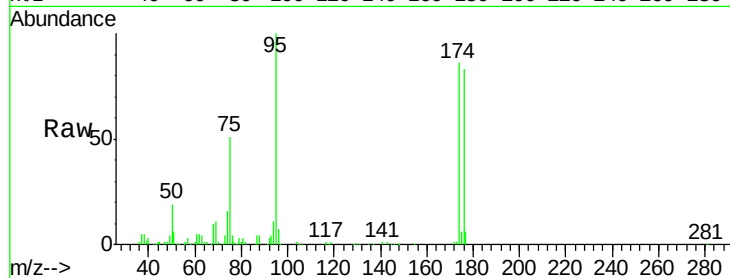
Ion 100.00 (99.70 to 100.70): VN054017.D (-2571) (-)





#77
t-1,4-Dichloro-2-butene
Concen: 48.689 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN054058.D
Acq: 4 Mar 2019 10:15

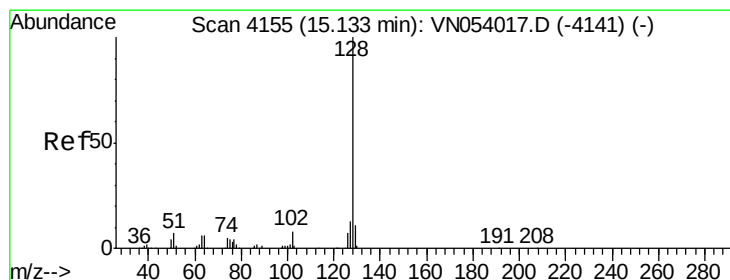
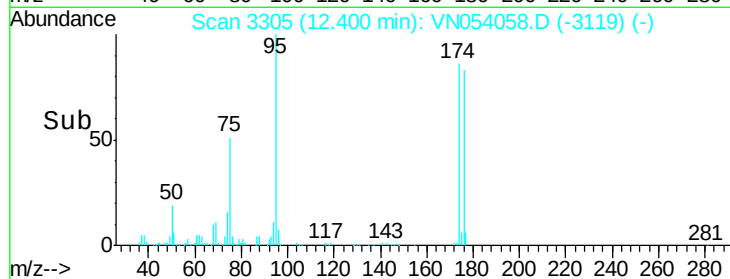
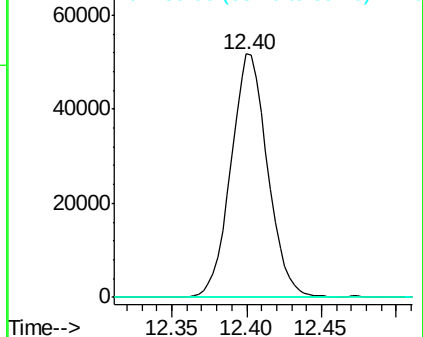
Tot Ion	Ratio	Lower	Upper
75	100		
53	0.4	48.5	145.6#
89	0.0	21.7	65.1#



Abundance Ion 75.00 (74.70 to 75.70): VN054017.D (-3265) (-)

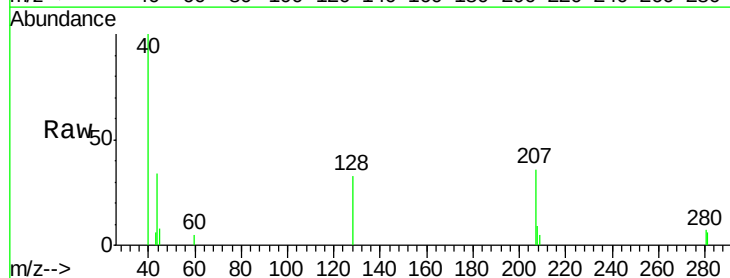
Ion 53.00 (52.70 to 53.70): VN054017.D (-3265) (-)

Ion 89.00 (88.70 to 89.70): VN054017.D (-3265) (-)



#91
Naphthalene
Concen: 7.120 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN054058.D
Acq: 4 Mar 2019 10:15

Tgt Ion	Ratio	Lower	Upper
128	100		
127	5.6	9.9	14.9#
129	0.0	8.5	12.7#



Abundance Ion 128.00 (127.70 to 128.70): VN054017.D (-4141) (-)

Ion 127.00 (126.70 to 127.70): VN054017.D (-4141) (-)

Ion 129.00 (128.70 to 129.70): VN054017.D (-4141) (-)

