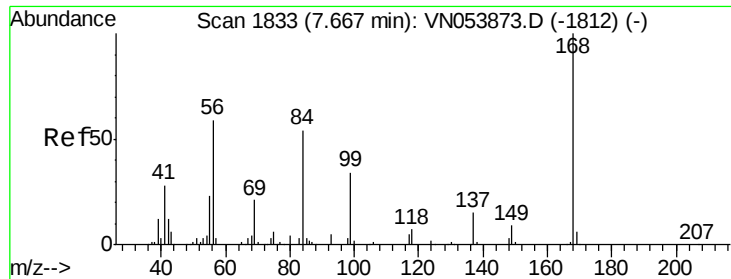


Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022219\
 Data File : VN053907.D
 Acq On : 22 Feb 2019 11:18
 Operator : JC/SP
 Sample : PB117286TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 22 22:12:10 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	614588	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1094537	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1010609	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	376416	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	341036	54.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.60%	
35) Dibromofluoromethane	7.59	113	334245	46.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.06%	
50) Toluene-d8	10.09	98	1345799	51.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.74%	
62) 4-Bromofluorobenzene	12.40	95	420929	49.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.28%	
Target Compounds						
					Qvalue	
16) Acetone	3.82	43	18472	10.694	ug/l	91
17) Carbon Disulfide	4.06	76	3592	0.203	ug/l #	74
18) Methyl Acetate	4.34	43	2196	0.539	ug/l #	79
20) Methylene Chloride	4.56	84	18474	2.857	ug/l	96
25) 2-Butanone	6.84	43	1812	0.813	ug/l	95
29) Tetrahydrofuran	7.23	42	1685	1.169	ug/l	91
31) Cyclohexane	7.66	56	8698	0.337	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	35405	3.529	ug/l #	48
37) Ethyl Acetate	6.93	43	252	0.261	ug/l #	67
38) Carbon Tetrachloride	7.67	117	51195	5.108	ug/l #	16
43) Isopropyl Acetate	8.17	43	32908	3.075	ug/l #	89
45) 1,2-Dichloropropane	9.27	63	1826	0.241	ug/l #	44
48) Methyl methacrylate	9.18	41	9958	2.170	ug/l #	12
51) 4-Methyl-2-Pentanone	10.02	43	8578	8.040	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	74507	6.768	ug/l #	64
56) Ethyl methacrylate	10.54	69	1516	2.640	ug/l #	1
57) 1,3-Dichloropropane	10.77	76	12757	1.179	ug/l #	43
59) 2-Hexanone	10.76	43	157976	47.052	ug/l #	51
71) Bromoform	12.40	173	2881	0.526	ug/l #	1
74) N-amyl acetate	12.07	43	1438	0.236	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	194972	35.284	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8051	0.366	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	194972	116.482	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	1978	3.179	ug/l	94
95) Naphthalene	15.14	128	5072	4.921	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.32	180	2181	2.859	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053907.D

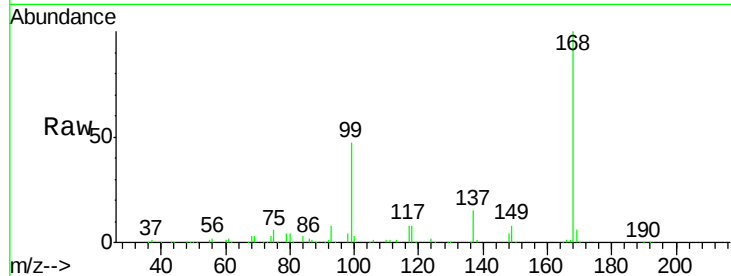
Acq: 22 Feb 2019 11:18

Tot Ion:168 Resp: 614588

Ion Ratio Lower Upper

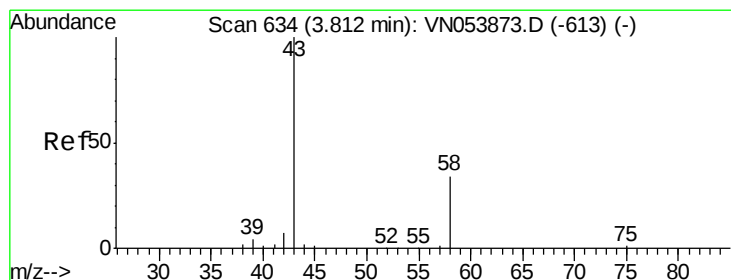
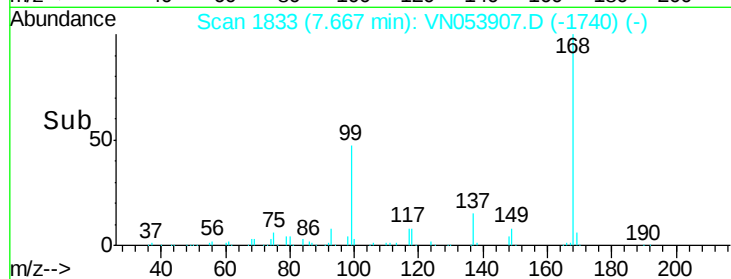
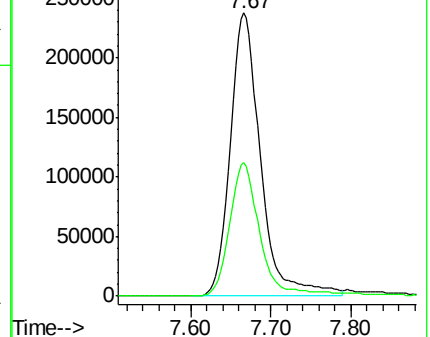
168 100

99 47.0 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 10.694 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053907.D

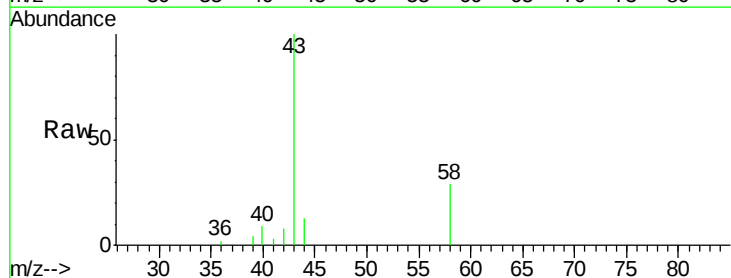
Acq: 22 Feb 2019 11:18

Tgt Ion: 43 Resp: 18472

Ion Ratio Lower Upper

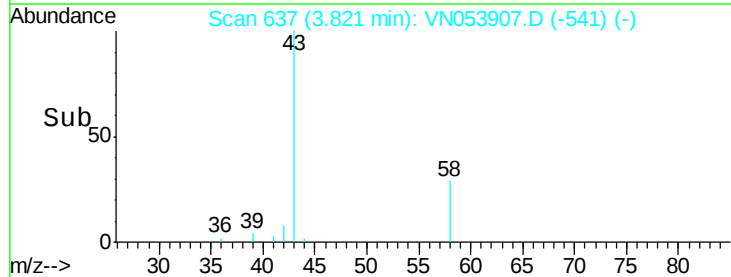
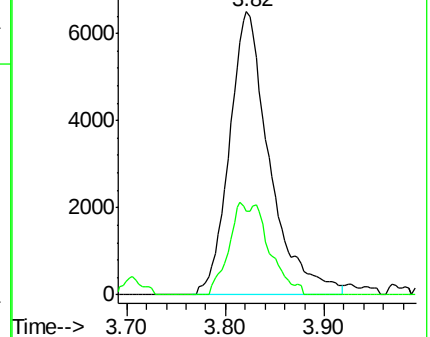
43 100

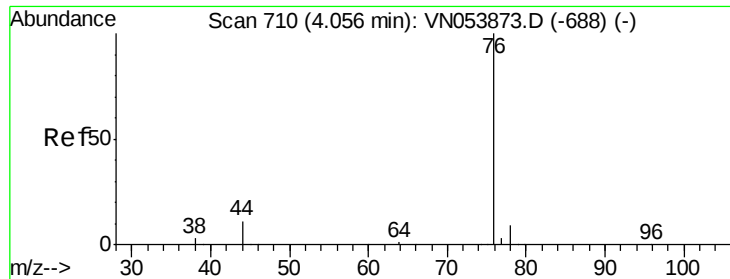
58 29.4 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VNO

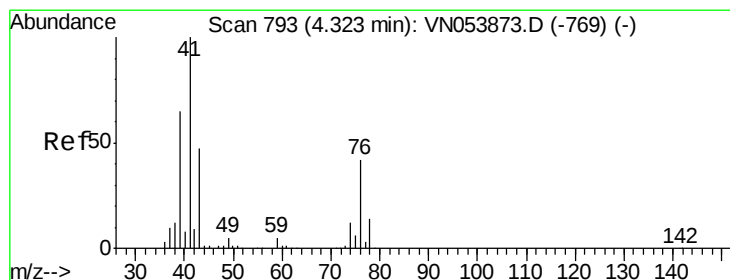
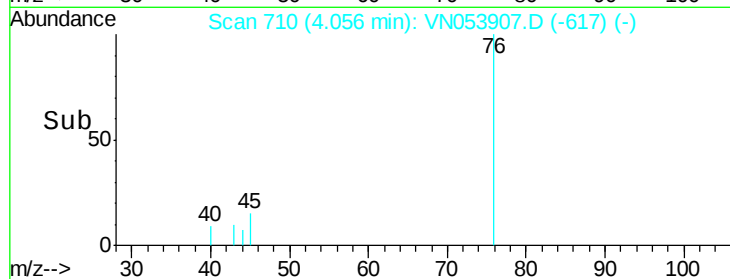
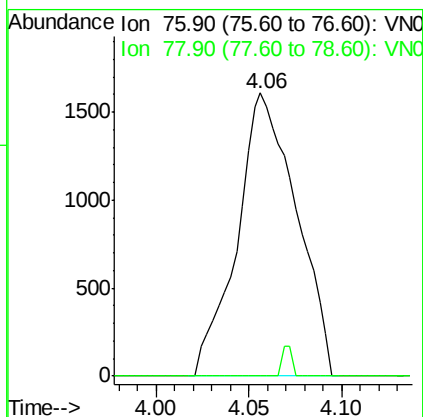
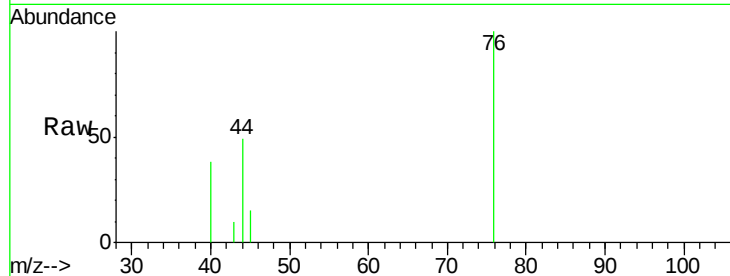
Ion 58.00 (57.70 to 58.70): VNO





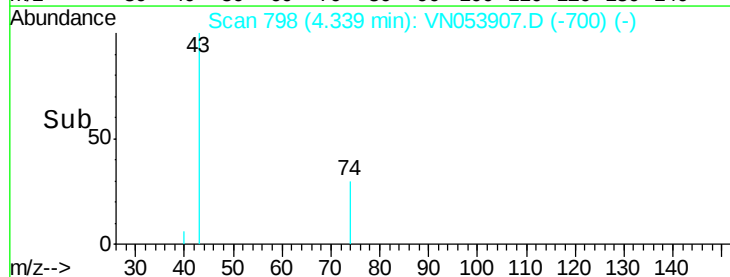
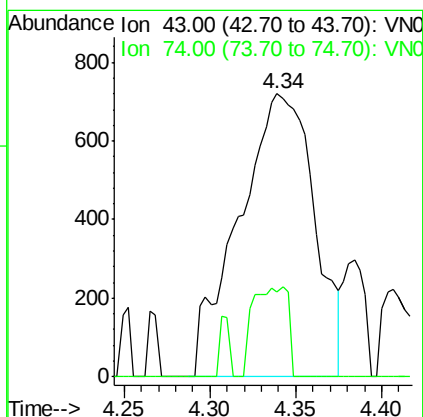
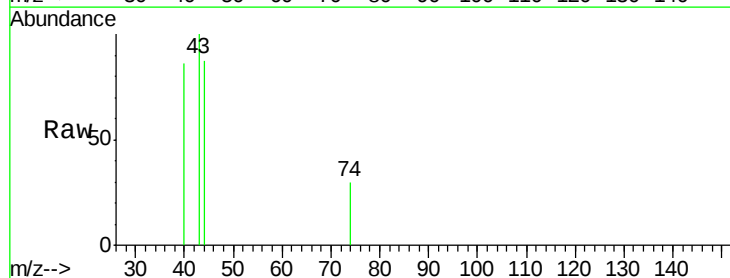
#17
Carbon Disulfide
Concen: 0.203 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN053907.D
Acq: 22 Feb 2019 11:18

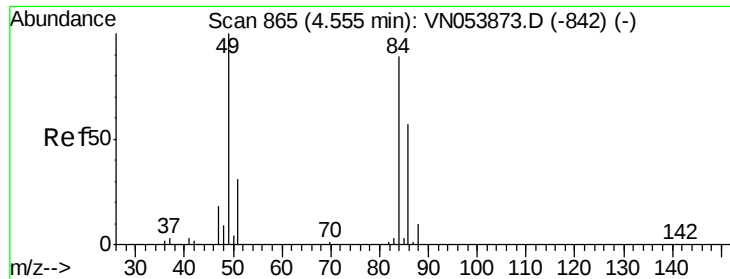
Tot Ion: 76 Resp: 3592
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#



#18
Methyl Acetate
Concen: 0.539 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.02 min
Lab File: VN053907.D
Acq: 22 Feb 2019 11:18

Tgt Ion: 43 Resp: 2196
Ion Ratio Lower Upper
43 100
74 14.8 20.5 30.7#

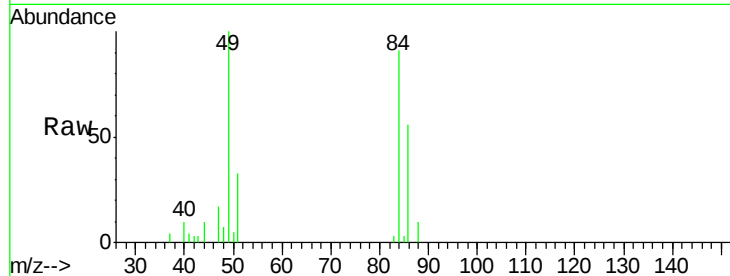




#20
Methvlene Chloride
Concen: 2.857 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN053907.D
Acq: 22 Feb 2019 11:18

Tot Ion: 84 Resp: 18474

Ion	Ratio	Lower	Upper
84	100		
49	107.6	89.7	134.5
51	36.5	27.8	41.8
86	61.3	51.3	76.9



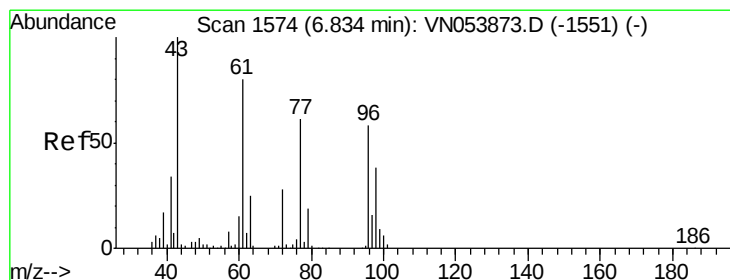
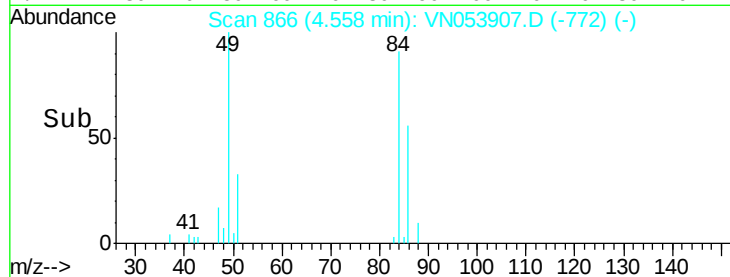
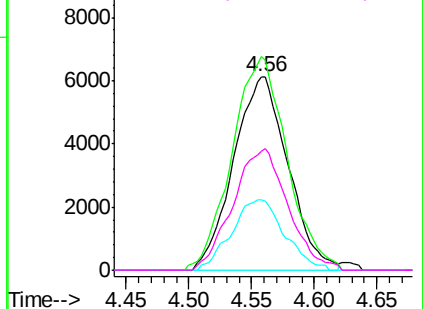
Abundance

Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

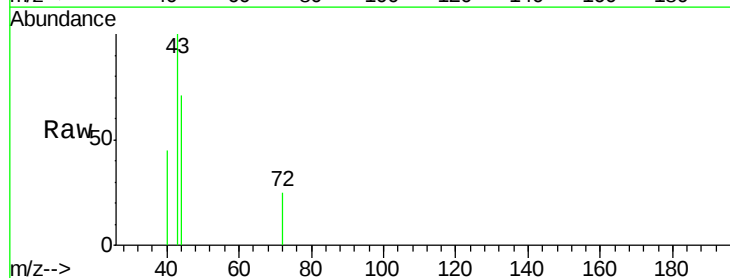
Ion 85.90 (85.60 to 86.60): VNO



#25
2-Butanone
Concen: 0.813 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN053907.D
Acq: 22 Feb 2019 11:18

Tgt Ion: 43 Resp: 1812

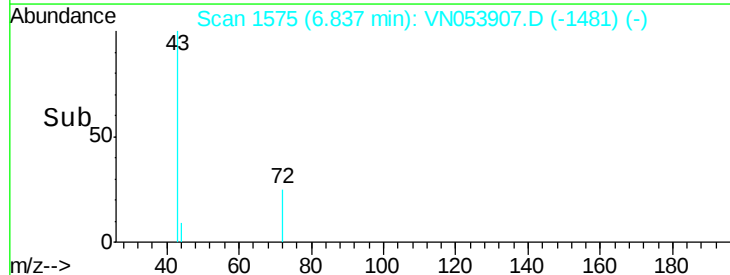
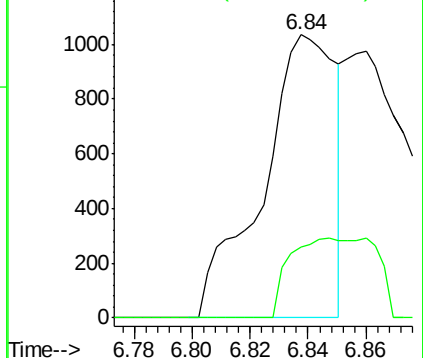
Ion	Ratio	Lower	Upper
43	100		
72	24.8	22.1	33.1

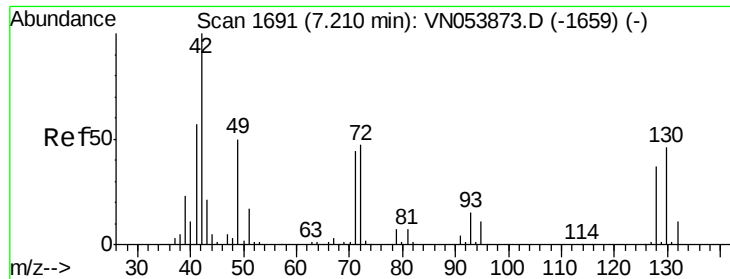


Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#29

Tetrahydrofuran

Concen: 1.169 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.02 min

Lab File: VN053907.D

Acq: 22 Feb 2019 11:18

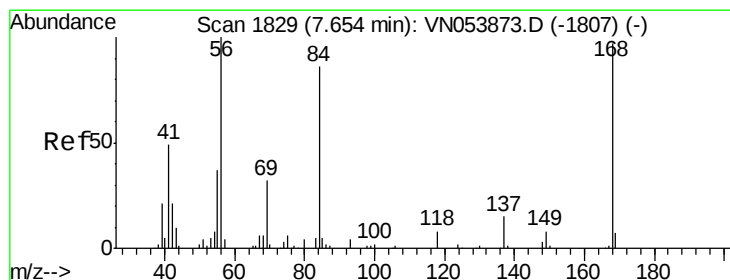
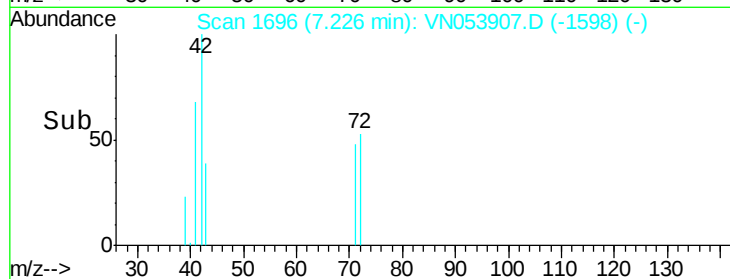
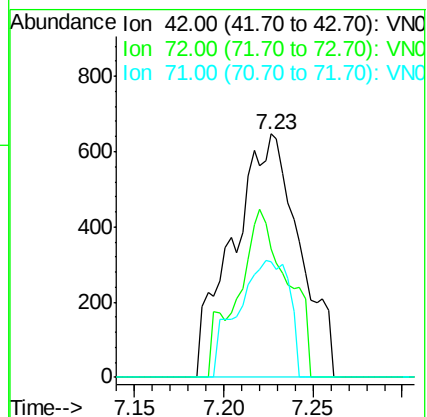
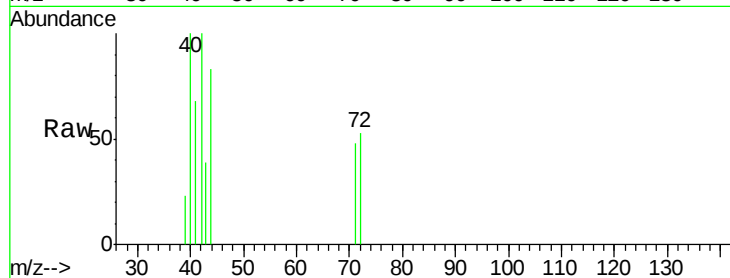
Tot Ion: 42 Resp: 1685

Ion Ratio Lower Upper

42 100

72 52.0 36.9 55.3

71 37.4 34.6 52.0



#31

Cyclohexane

Concen: 0.337 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053907.D

Acq: 22 Feb 2019 11:18

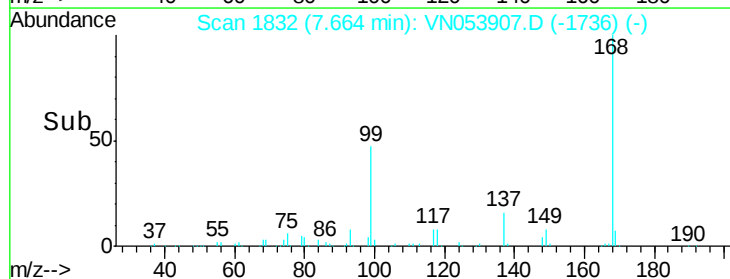
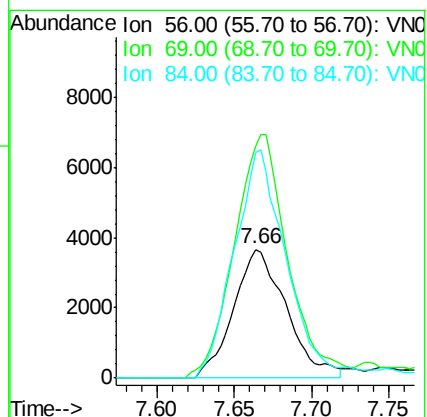
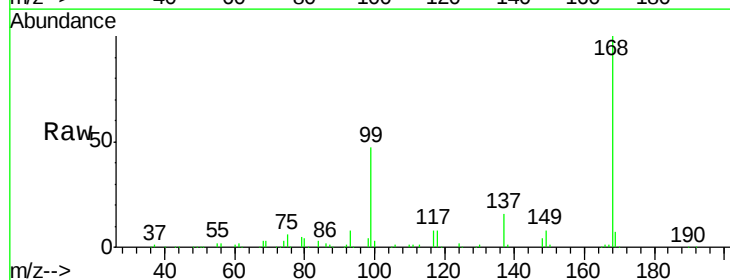
Tgt Ion: 56 Resp: 8698

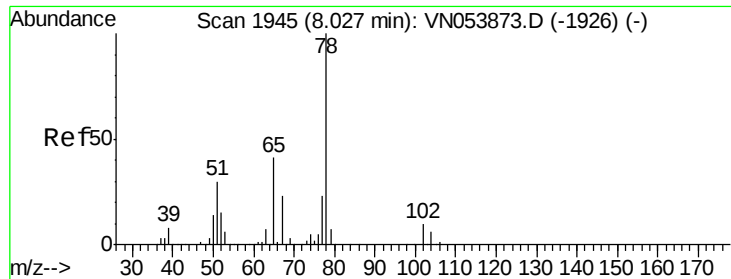
Ion Ratio Lower Upper

56 100

69 175.0 26.0 39.0#

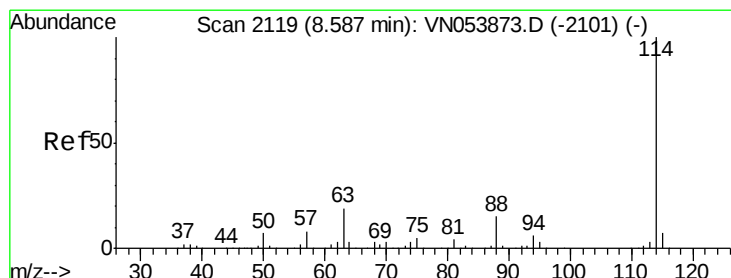
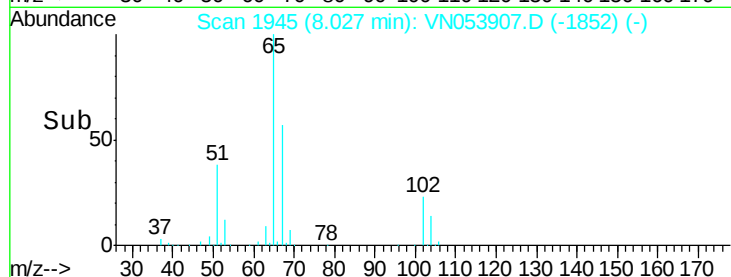
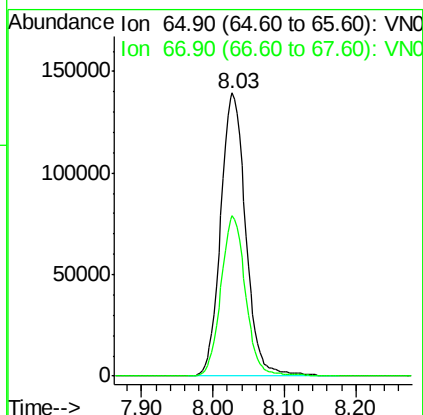
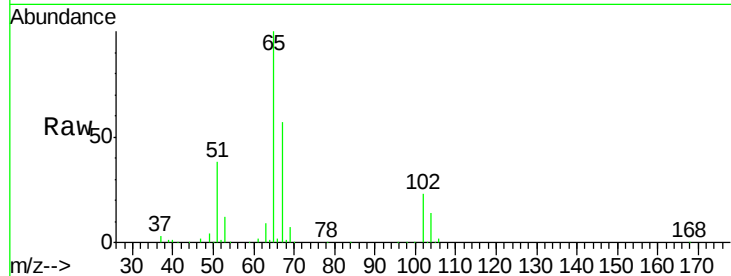
84 175.2 69.1 103.7#





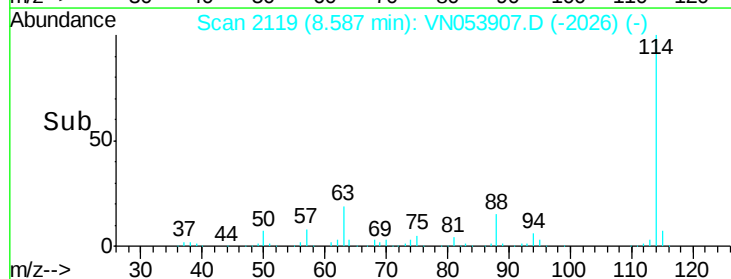
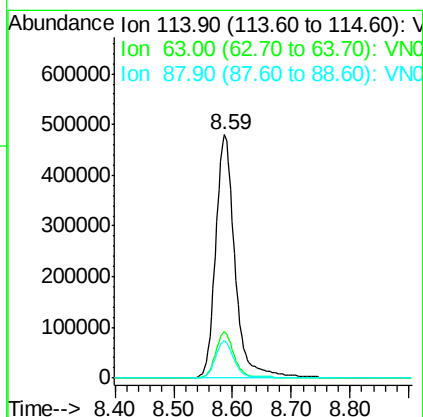
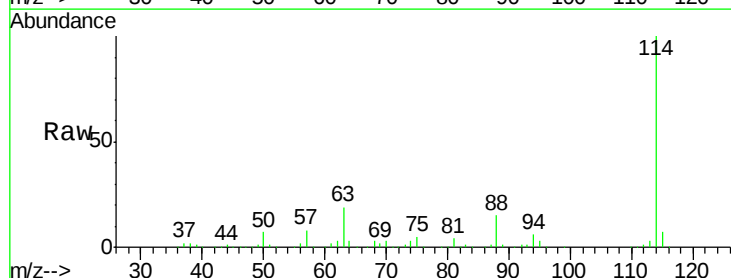
#33
 1,2-Dichloroethane-d4
 Concen: 54.297 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053907.D
 Acq: 22 Feb 2019 11:18

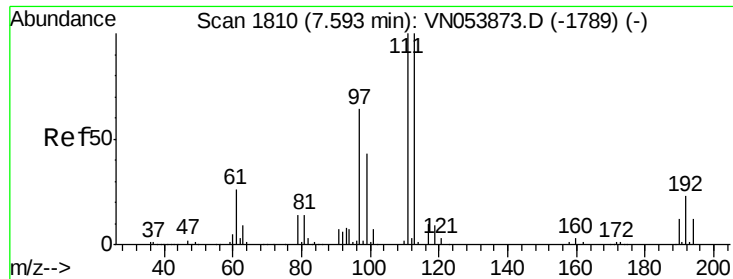
Tot Ion: 65 Resp: 341036
 Ion Ratio Lower Upper
 65 100
 67 55.5 0.0 111.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053907.D
 Acq: 22 Feb 2019 11:18

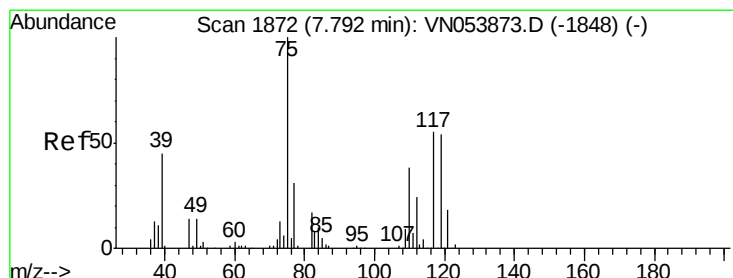
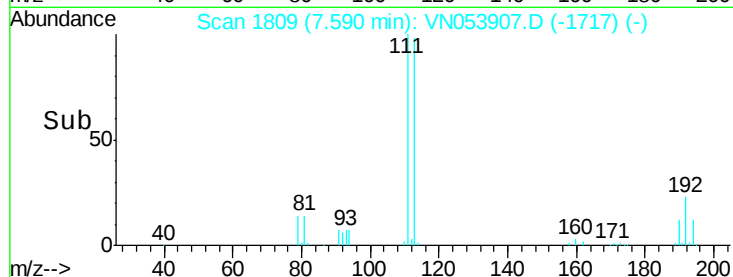
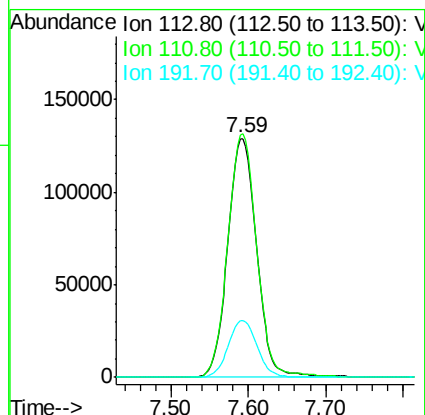
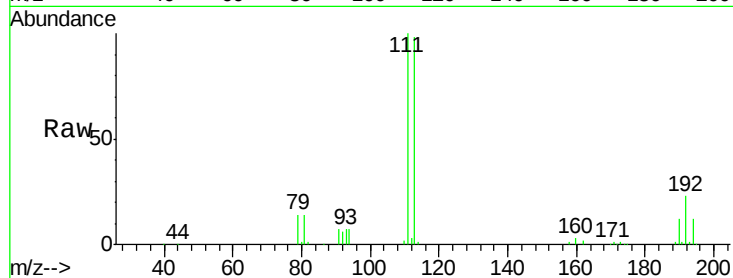
Tgt Ion: 114 Resp: 1094537
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 37.4
 88 15.2 0.0 30.4





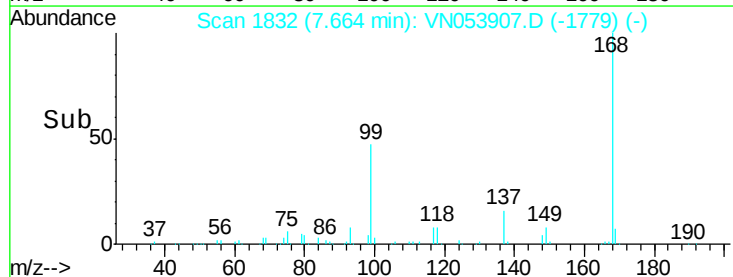
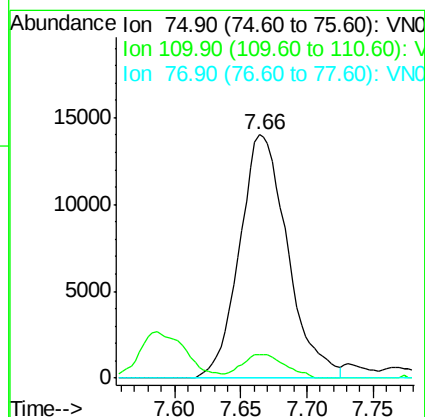
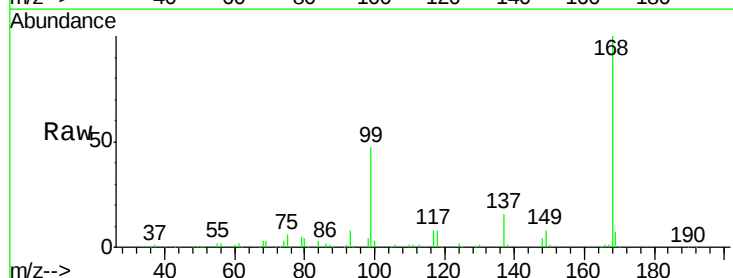
#35
 Dibromofluoromethane
 Concen: 46.531 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN053907.D
 Acq: 22 Feb 2019 11:18

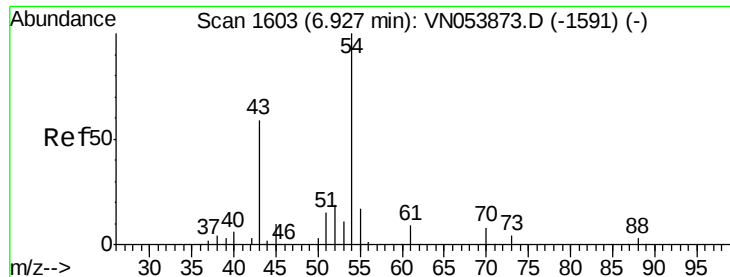
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.1	121.7
192	23.7	18.8	28.2



#36
 1,1-Dichloropropene
 Concen: 3.529 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053907.D
 Acq: 22 Feb 2019 11:18

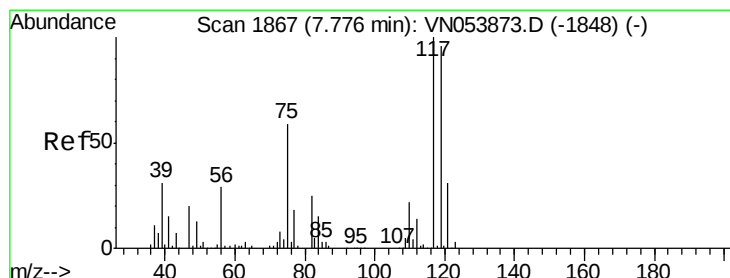
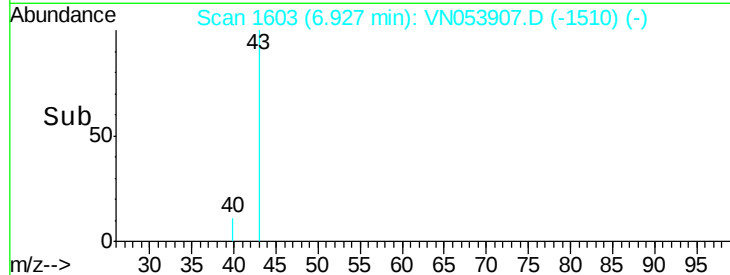
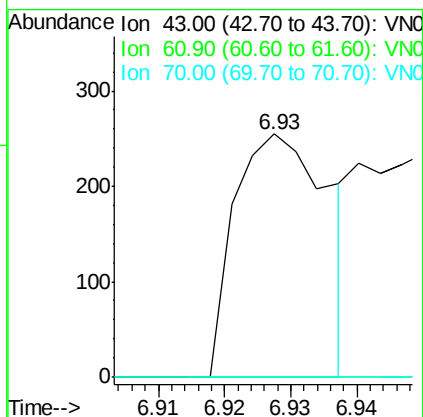
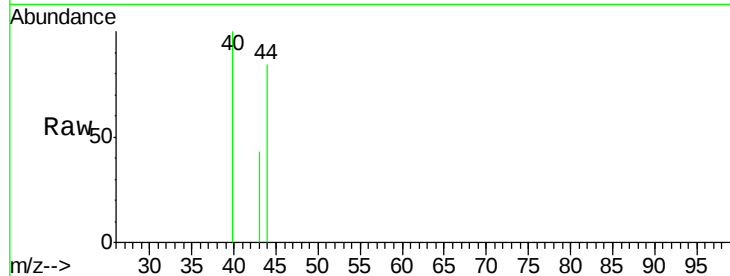
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.7	19.0	57.0#
77	0.0	25.4	38.0#





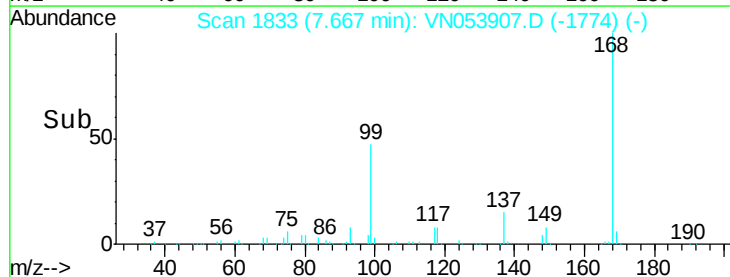
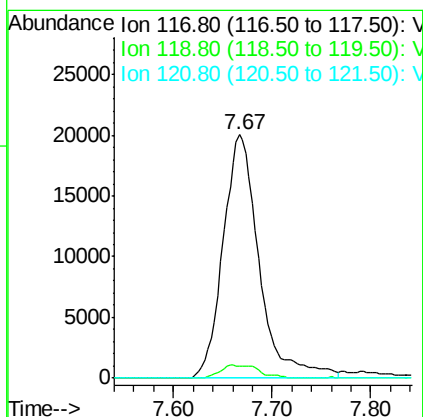
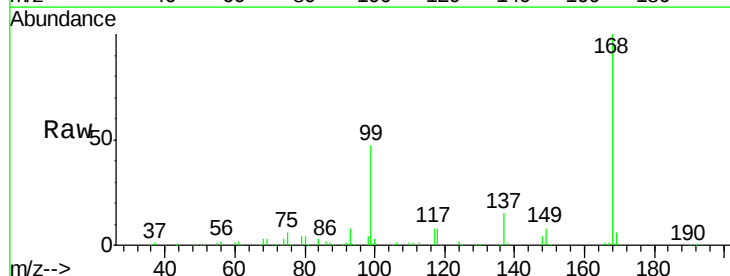
#37
Ethyl Acetate
Concen: 0.261 ug/l
RT: 6.93 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VN053907.D
Acq: 22 Feb 2019 11:18

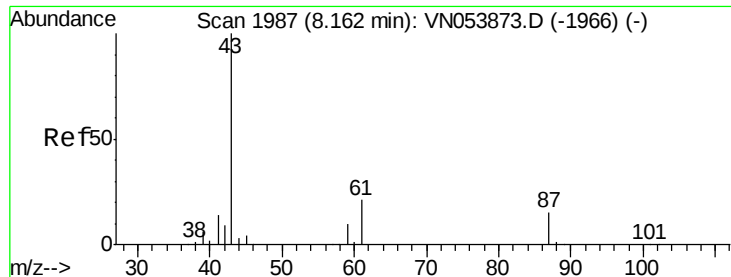
Tot Ion: 43 Resp: 252
Ion Ratio Lower Upper
43 100
61 0.0 12.0 18.0#
70 0.0 8.7 13.1#



#38
Carbon Tetrachloride
Concen: 5.108 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN053907.D
Acq: 22 Feb 2019 11:18

Tgt Ion: 117 Resp: 51195
Ion Ratio Lower Upper
117 100
119 4.7 76.2 114.2#
121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 3.075 ug/l

RT: 8.17 min Scan# 1989

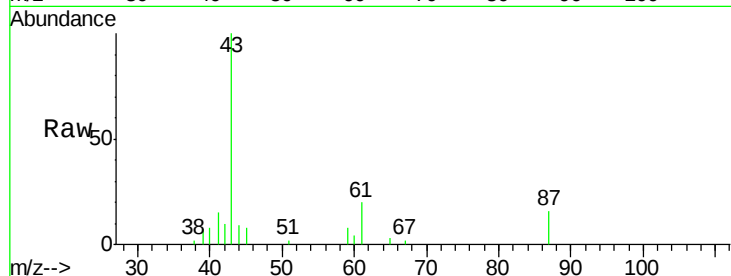
Delta R.T. 0.01 min

Lab File: VN053907.D

Acq: 22 Feb 2019 11:18

Tot Ion: 43 Resp: 32908

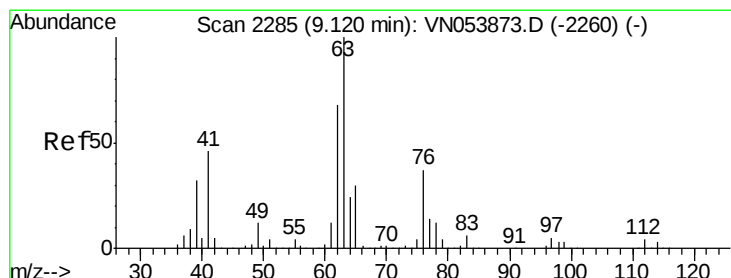
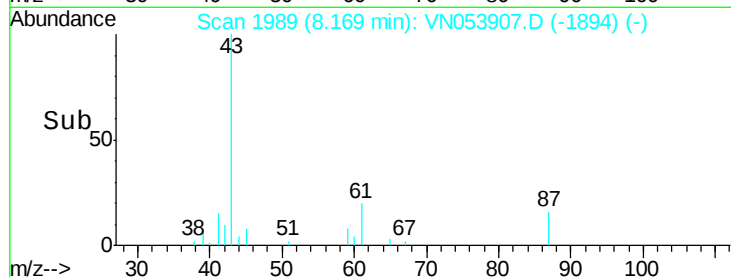
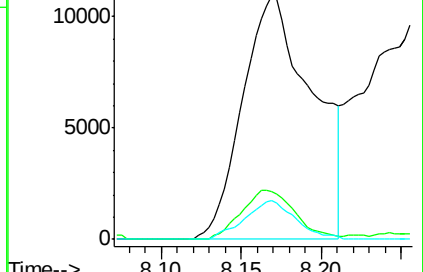
Ion	Ratio	Lower	Upper
43	100		
61	15.5	17.4	26.0#
87	11.6	11.5	17.3



Abundance Ion 43.00 (42.70 to 43.70): VN053907.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN053907.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN053907.D (-1966) (-)



#45

1,2-Dichloropropane

Concen: 0.241 ug/l

RT: 9.27 min Scan# 2330

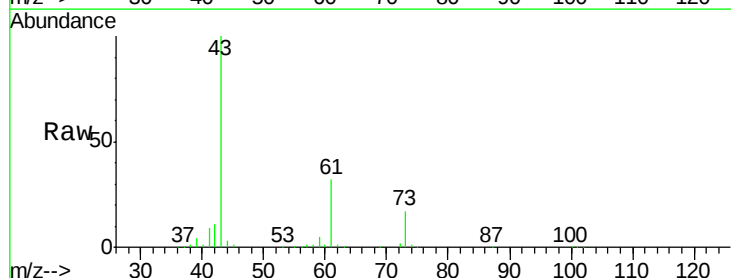
Delta R.T. 0.14 min

Lab File: VN053907.D

Acq: 22 Feb 2019 11:18

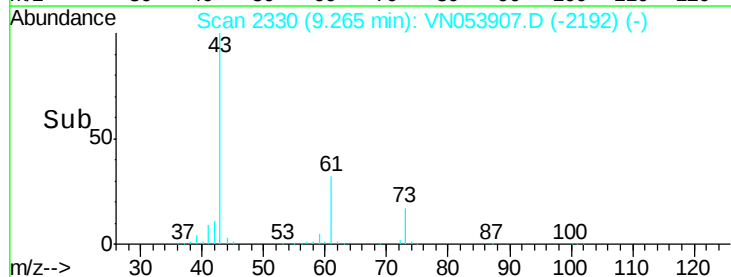
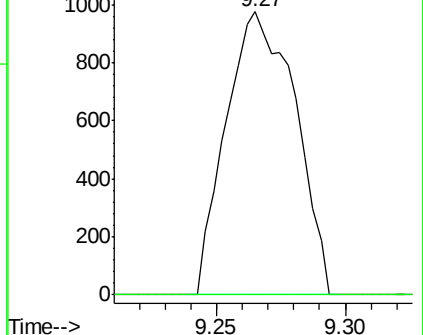
Tgt Ion: 63 Resp: 1826

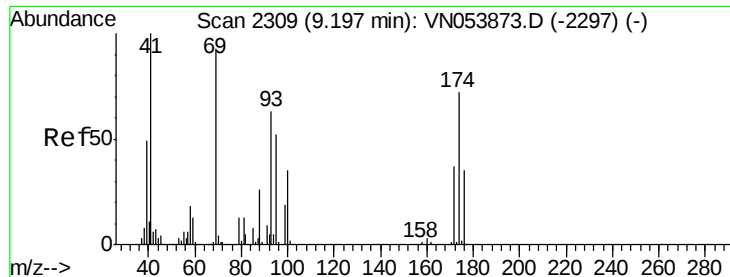
Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.3	36.5#



Abundance Ion 62.90 (62.60 to 63.60): VN053907.D (-2192) (-)

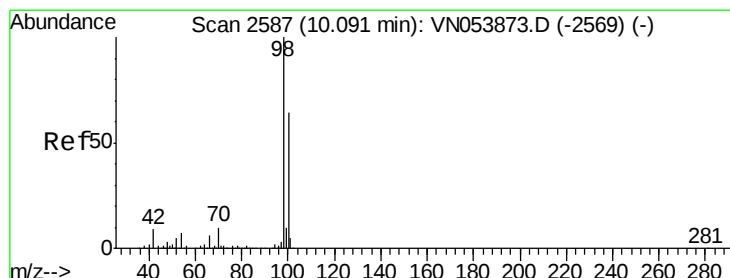
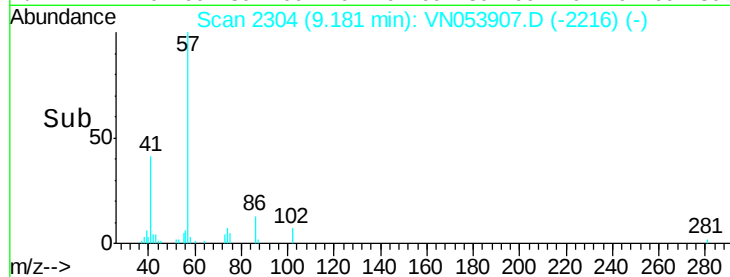
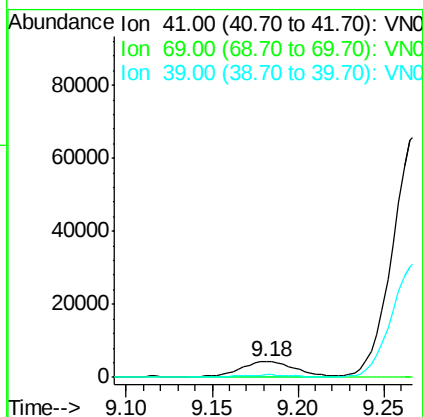
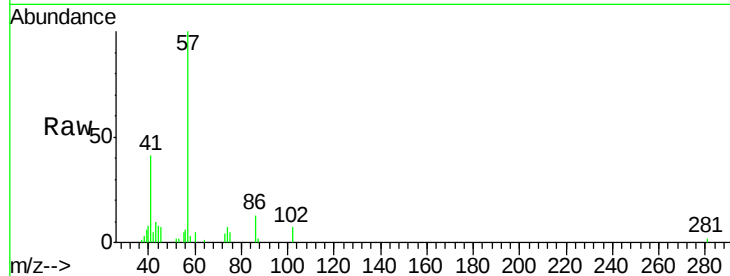
Ion 64.90 (64.60 to 65.60): VN053907.D (-2192) (-)





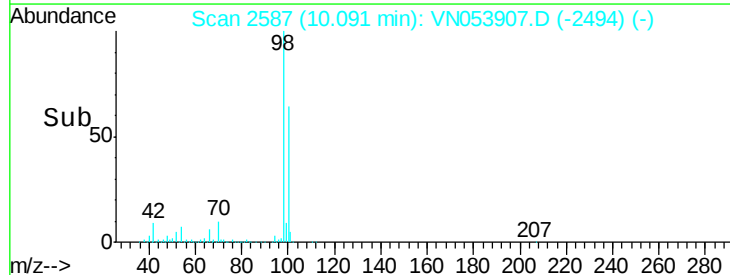
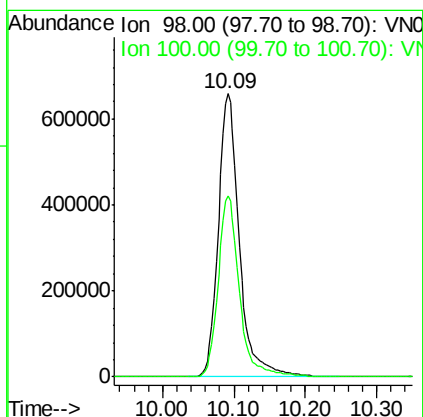
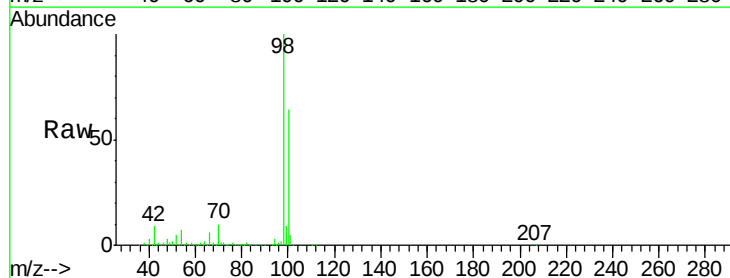
#48
Methvl methacrylate
Concen: 2.170 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN053907.D
Acq: 22 Feb 2019 11:18

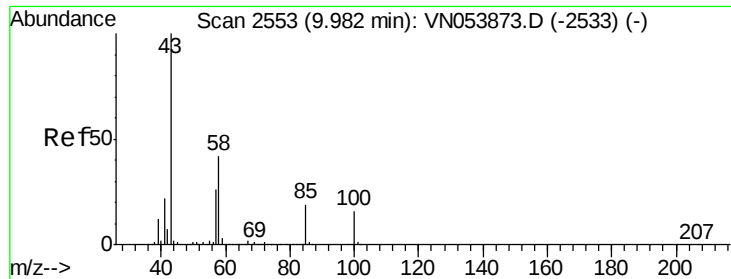
Tot Ion: 41 Resp: 9958
Ion Ratio Lower Upper
41 100
69 0.0 74.8 112.2#
39 0.0 39.0 58.6#



#50
Toluene-d8
Concen: 51.873 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053907.D
Acq: 22 Feb 2019 11:18

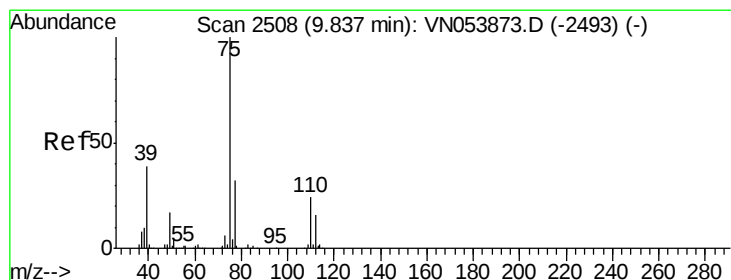
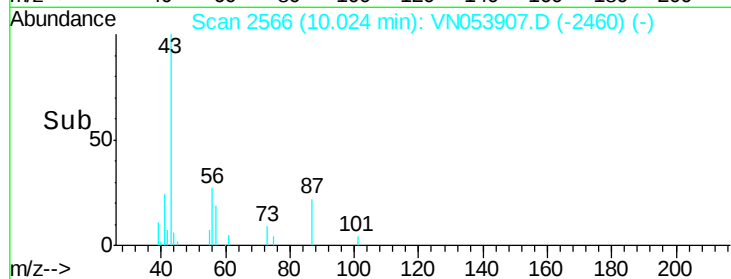
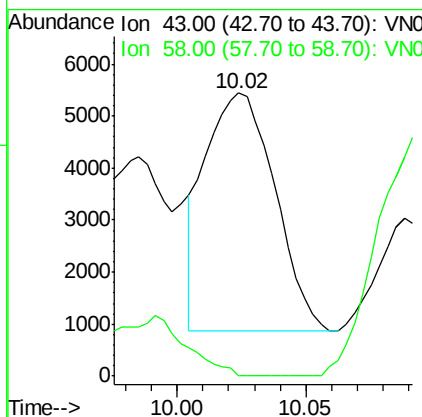
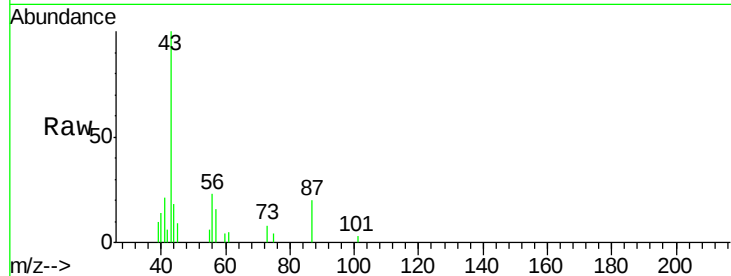
Tgt Ion: 98 Resp: 1345799
Ion Ratio Lower Upper
98 100
100 64.3 51.9 77.9





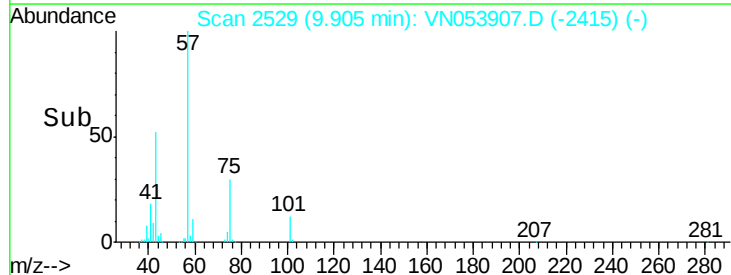
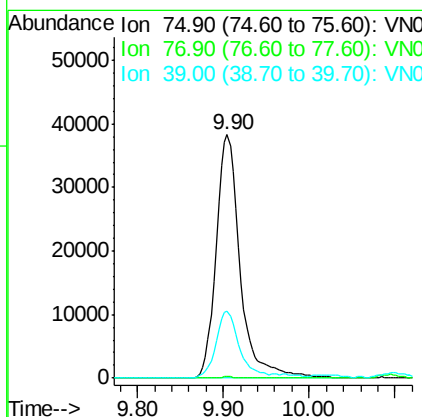
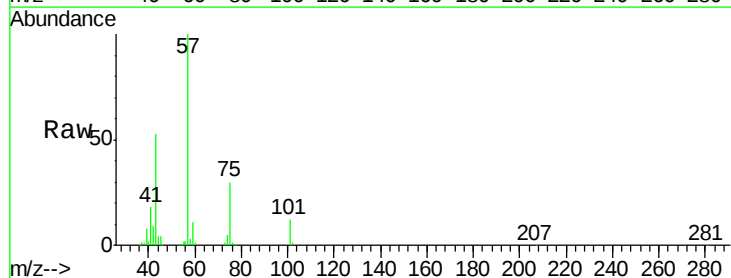
#51
 4-Methyl-2-Pentanone
 Concen: 8.040 ug/l
 RT: 10.02 min Scan# 2566
 Delta R.T. 0.04 min
 Lab File: VN053907.D
 Acq: 22 Feb 2019 11:18

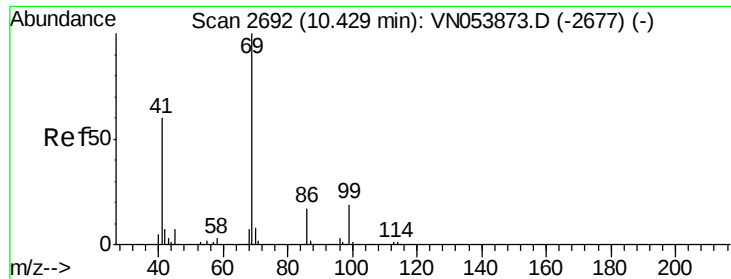
Tot Ion: 43 Resp: 8578
 Ion Ratio Lower Upper
 43 100
 58 0.0 32.7 49.1#



#54
 cis-1,3-Dichloropropene
 Concen: 6.768 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053907.D
 Acq: 22 Feb 2019 11:18

Tgt Ion: 75 Resp: 74507
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.8 38.6#
 39 27.3 31.4 47.0#





#56

Ethyl methacrylate

Concen: 2.640 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN053907.D

Acq: 22 Feb 2019 11:18

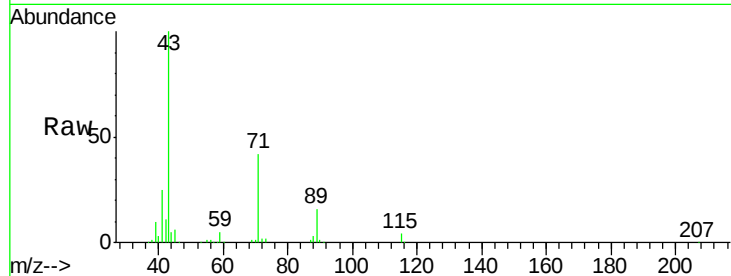
Tot Ion: 69 Resp: 1516

Ion Ratio Lower Upper

69 100

41 3391.0 47.5 71.3#

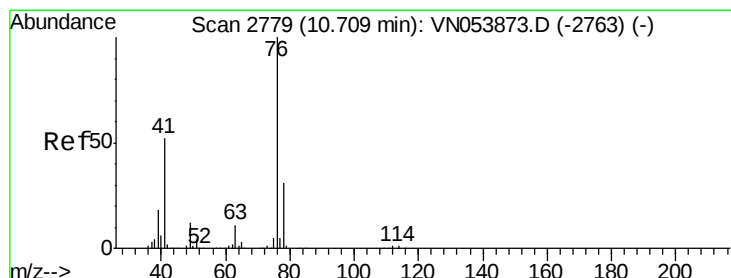
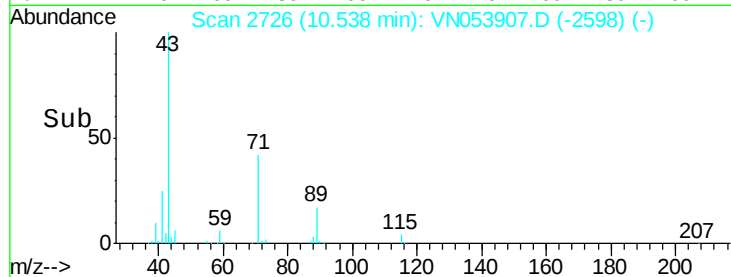
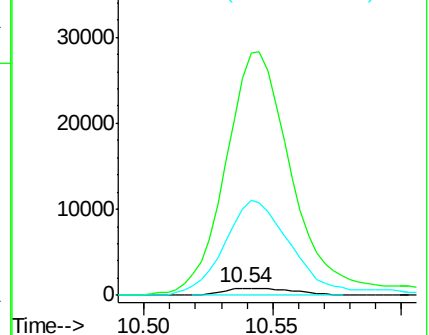
39 1345.2 23.4 35.0#



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: 1.179 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN053907.D

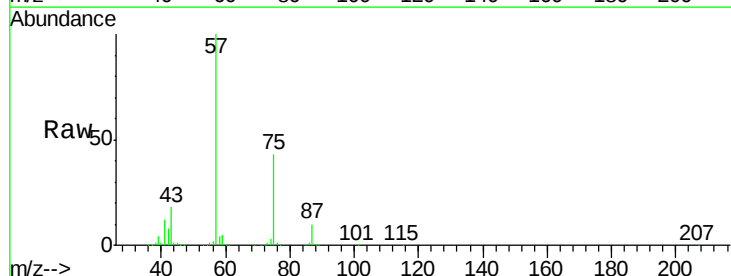
Acq: 22 Feb 2019 11:18

Tgt Ion: 76 Resp: 12757

Ion Ratio Lower Upper

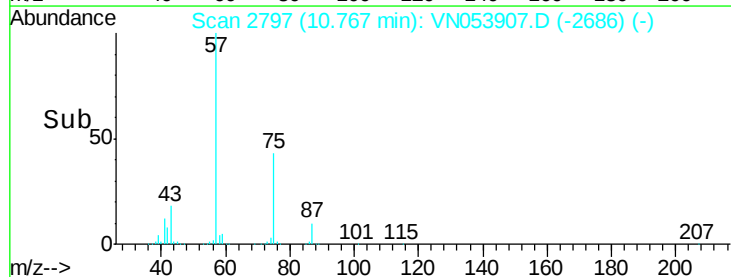
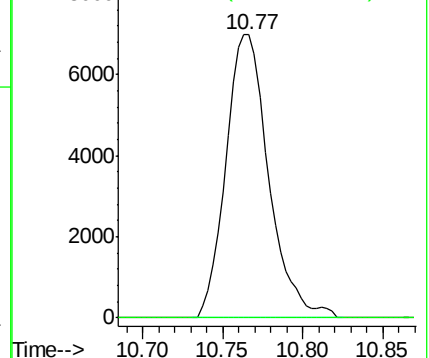
76 100

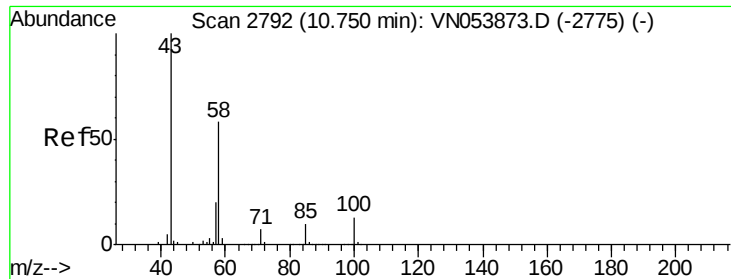
78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

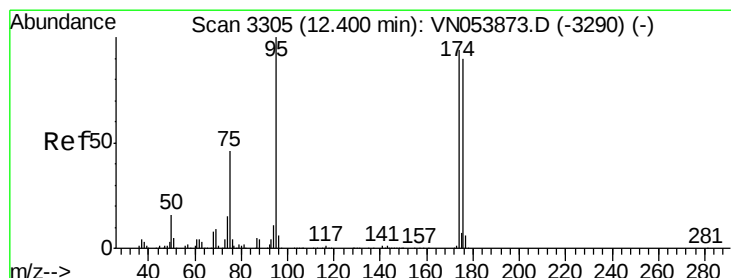
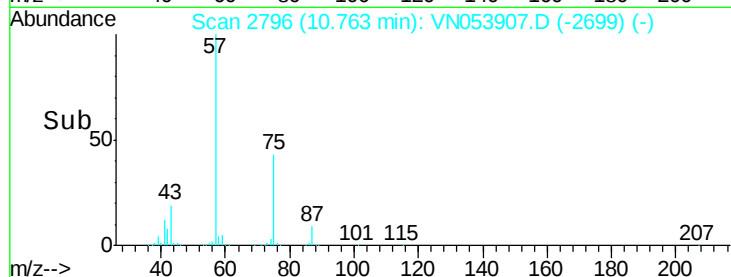
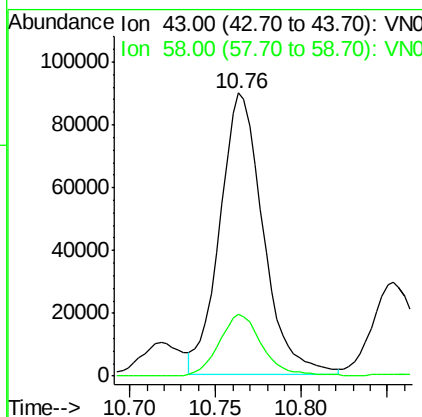
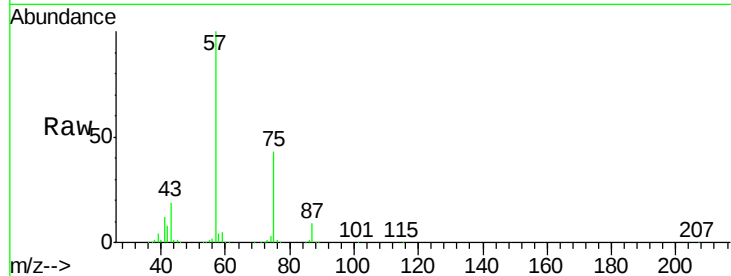
Ion 77.90 (77.60 to 78.60): VN0





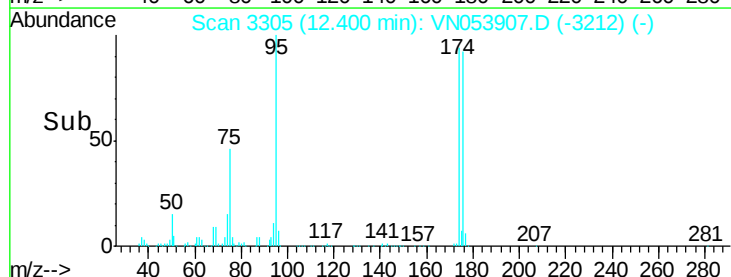
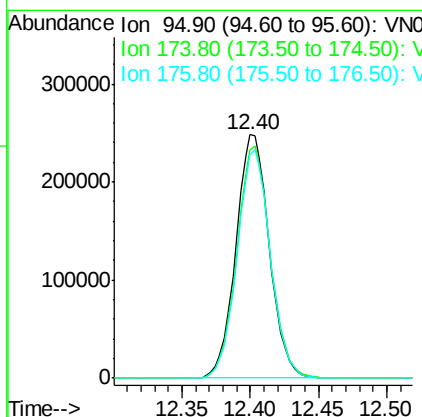
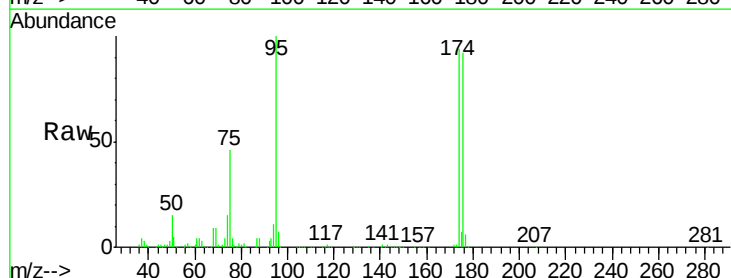
#59
2-Hexanone
Concen: 47.052 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053907.D
Acq: 22 Feb 2019 11:18

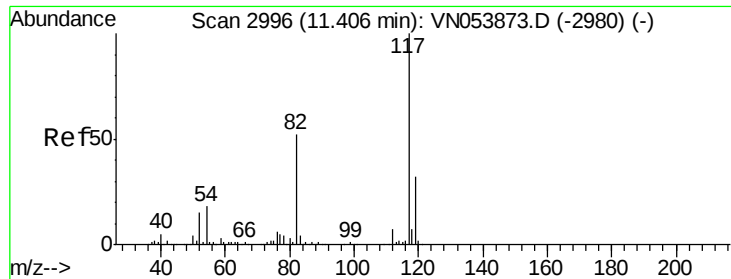
Tot Ion: 43 Resp: 157976
Ion Ratio Lower Upper
43 100
58 22.1 29.1 87.4#



#62
4-Bromofluorobenzene
Concen: 49.144 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN053907.D
Acq: 22 Feb 2019 11:18

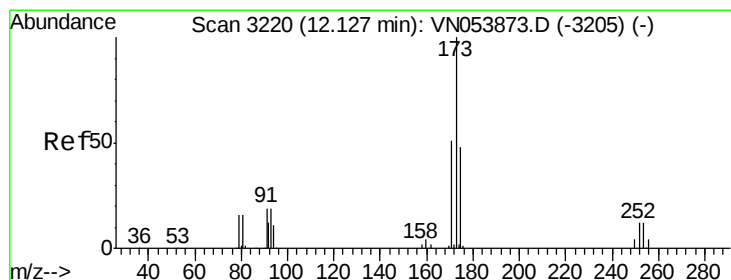
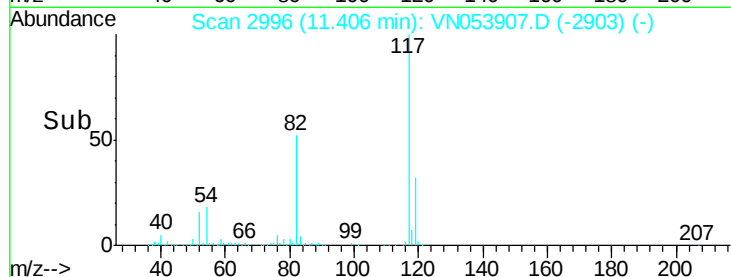
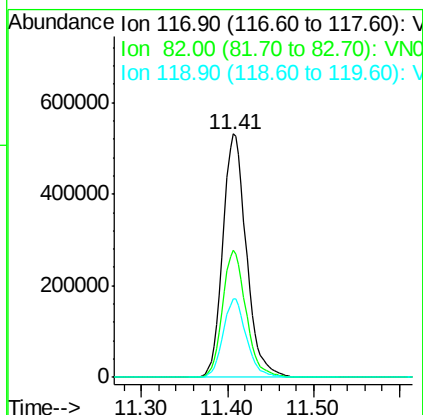
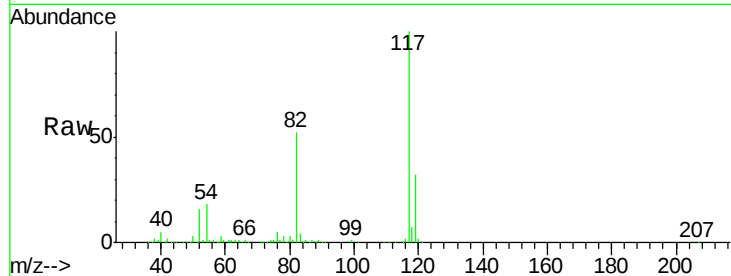
Tgt Ion: 95 Resp: 420929
Ion Ratio Lower Upper
95 100
174 95.6 0.0 188.8
176 93.1 0.0 182.6





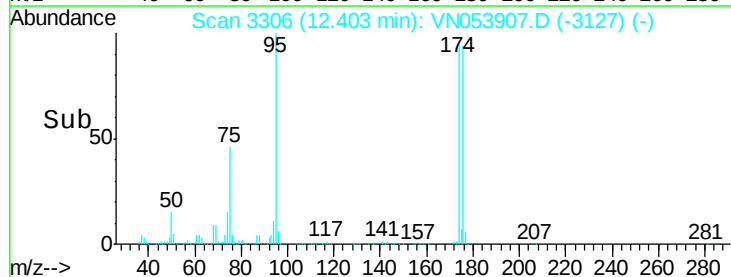
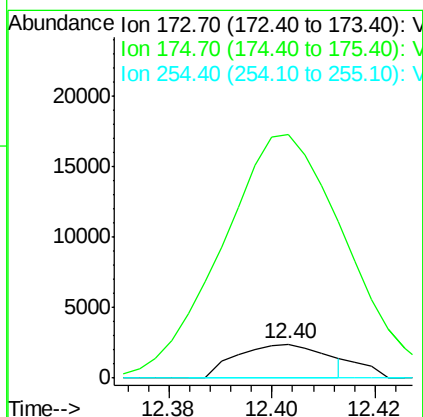
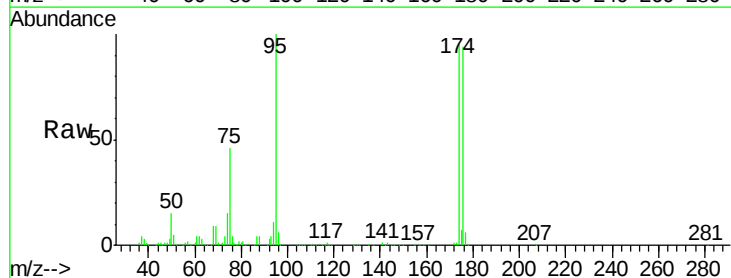
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053907.D
Acq: 22 Feb 2019 11:18

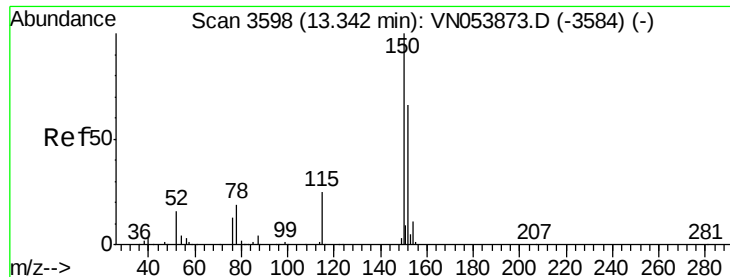
Tot Ion:117 Resp: 1010609
Ion Ratio Lower Upper
117 100
82 52.1 41.4 62.2
119 32.1 25.3 37.9



#71
Bromoform
Concen: 0.526 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053907.D
Acq: 22 Feb 2019 11:18

Tgt Ion:173 Resp: 2881
Ion Ratio Lower Upper
173 100
175 856.0 24.3 72.8#
254 0.0 0.2 0.2#

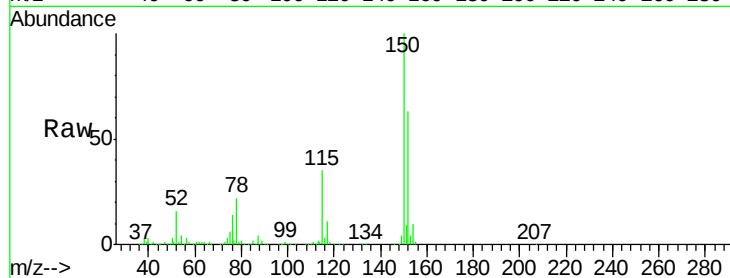




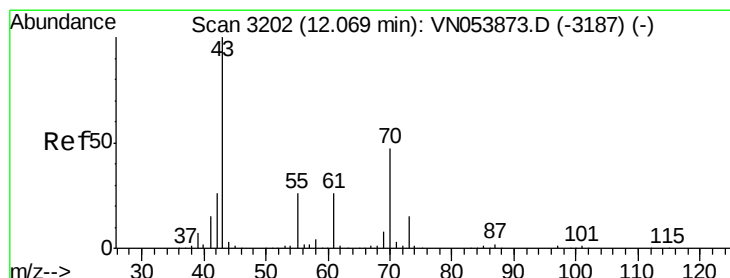
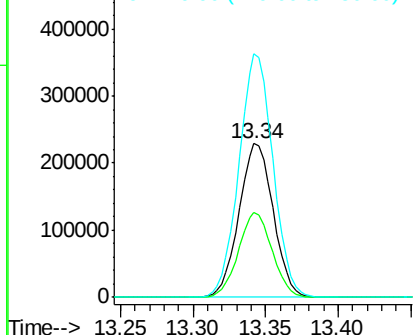
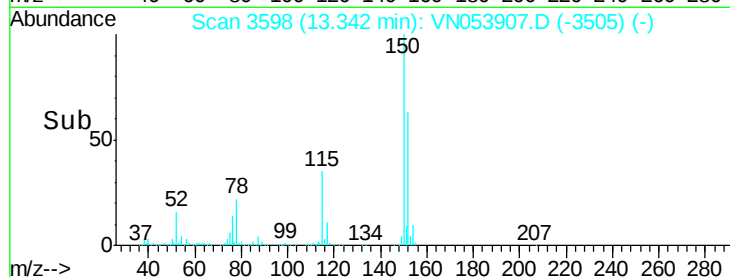
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN053907.D
Acq: 22 Feb 2019 11:18

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.5	27.2	81.6
150	157.2	0.0	348.2



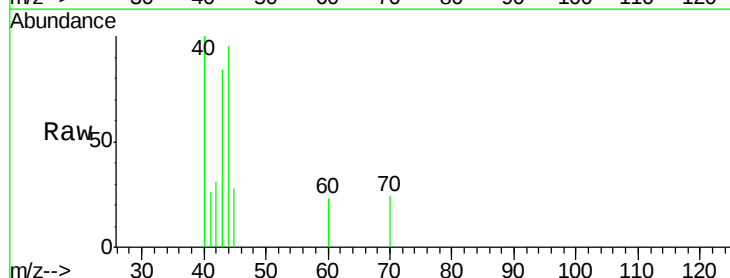
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



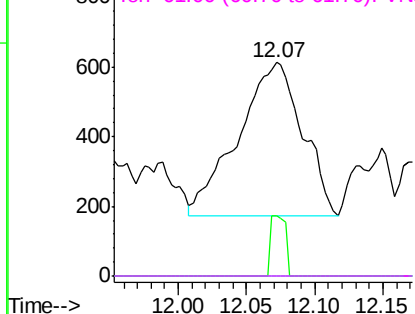
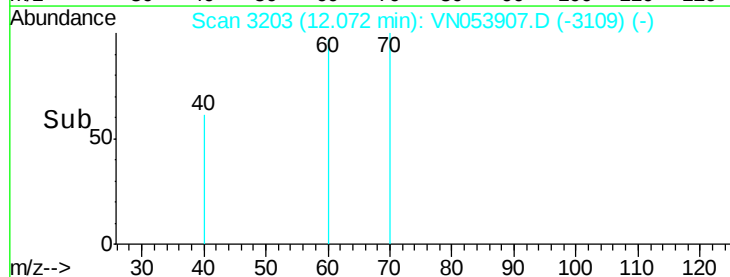
#74

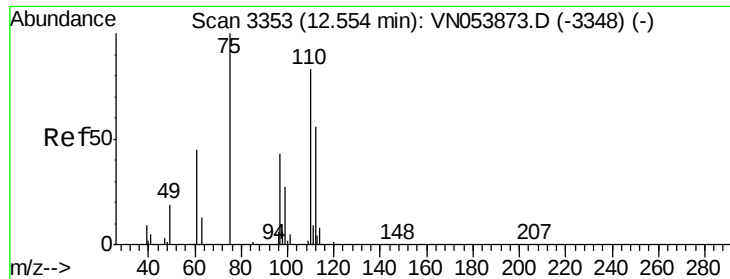
N-ethyl acetate
Concen: 0.236 ug/l
RT: 12.07 min Scan# 3203
Delta R.T. 0.00 min
Lab File: VN053907.D
Acq: 22 Feb 2019 11:18

Tgt Ion	Ratio	Lower	Upper
43	100		
70	9.0	37.4	56.2#
55	0.0	21.4	32.0#
61	0.0	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: 35.284 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053907.D

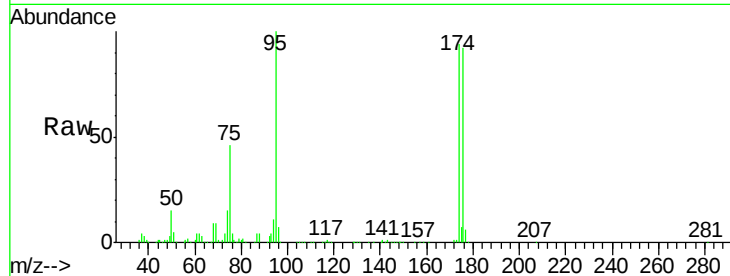
Acq: 22 Feb 2019 11:18

Tot Ion: 75 Resp: 194972

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN053907.D (-3305) (-)

Ion 77.00 (76.70 to 77.70): VN053907.D (-3305) (-)

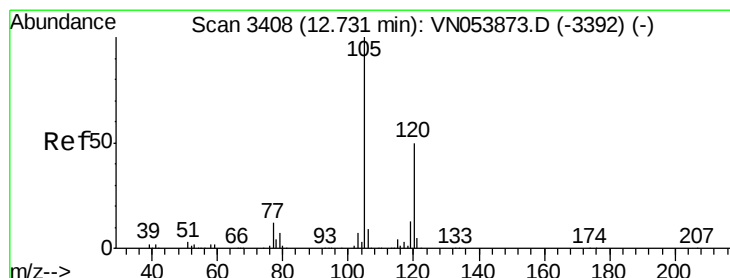
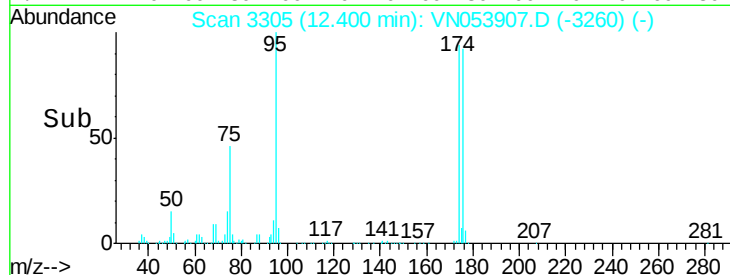
12.40

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.366 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053907.D

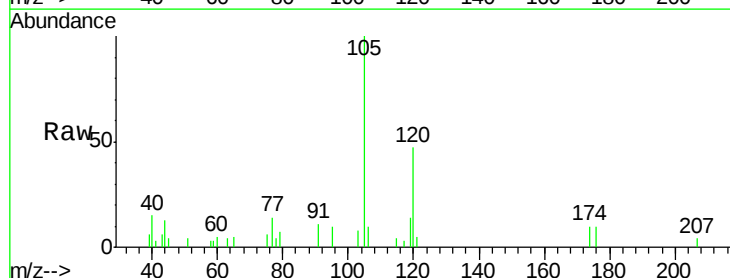
Acq: 22 Feb 2019 11:18

Tgt Ion: 105 Resp: 8051

Ion Ratio Lower Upper

105 100

120 50.5 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): VN053907.D (-3315) (-)

Ion 120.00 (119.70 to 120.70): VN053907.D (-3315) (-)

12.73

6000

5000

4000

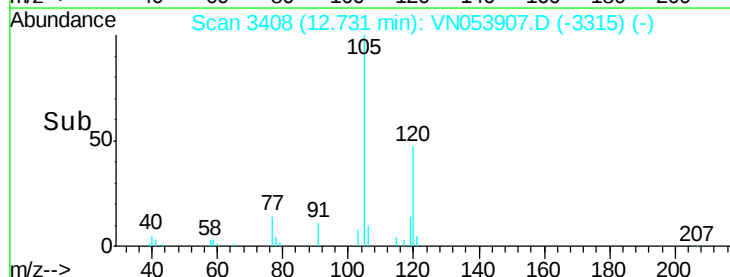
3000

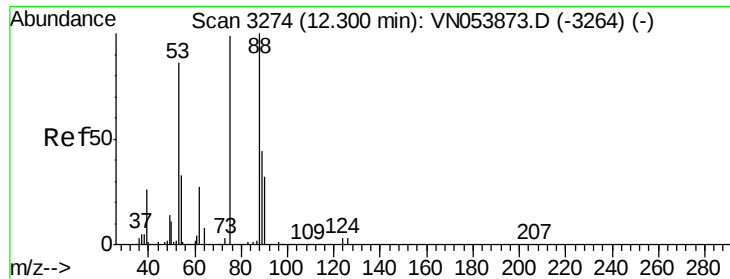
2000

1000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 116.482 ug/l

RT: 12.40 min Scan# 3305

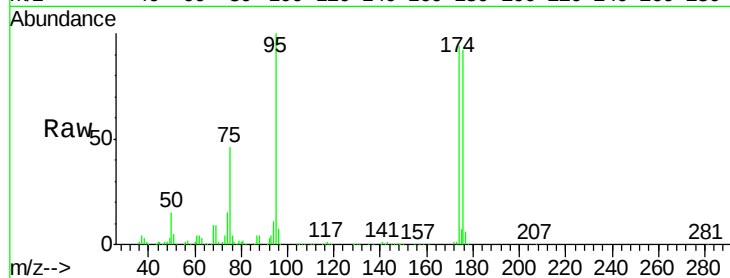
Delta R.T. 0.10 min

Lab File: VN053907.D

Acq: 22 Feb 2019 11:18

Tot Ion: 75 Resp: 194972

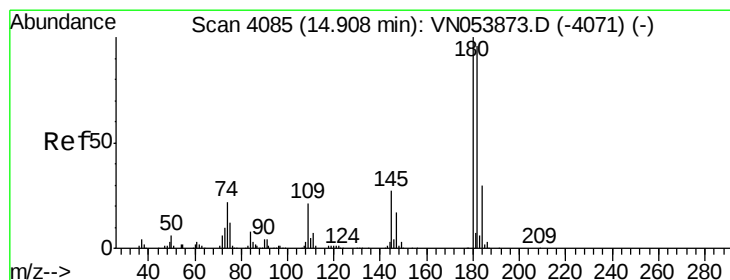
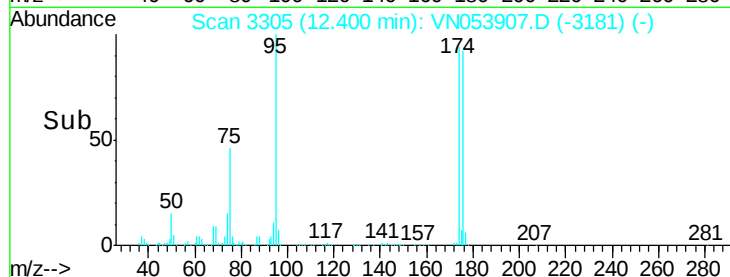
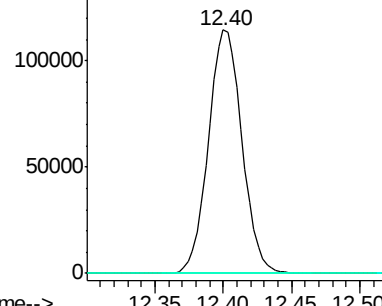
Ion	Ratio	Lower	Upper
75	100		
53	0.0	68.6	102.8#
89	0.0	35.3	52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN053907.D (-3305) (-)

Ion 53.00 (52.70 to 53.70): VN053907.D (-3305) (-)

Ion 88.90 (88.60 to 89.60): VN053907.D (-3305) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.179 ug/l

RT: 14.91 min Scan# 4085

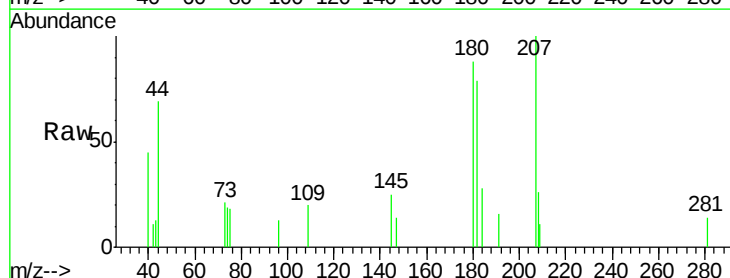
Delta R.T. 0.00 min

Lab File: VN053907.D

Acq: 22 Feb 2019 11:18

Tgt Ion: 180 Resp: 1978

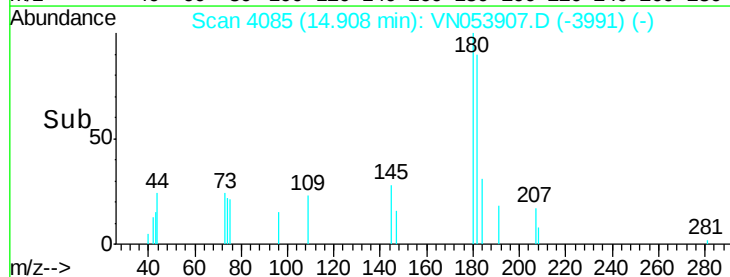
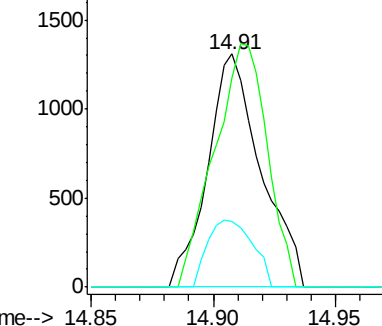
Ion	Ratio	Lower	Upper
180	100		
182	103.6	48.6	145.9
145	24.4	13.8	41.3

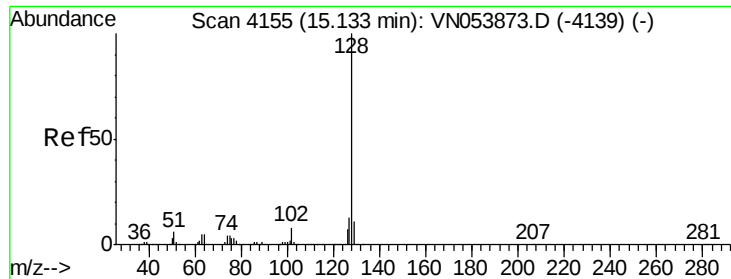


Abundance Ion 179.80 (179.50 to 180.50): VN053907.D (-4085) (-)

Ion 181.80 (181.50 to 182.50): VN053907.D (-4085) (-)

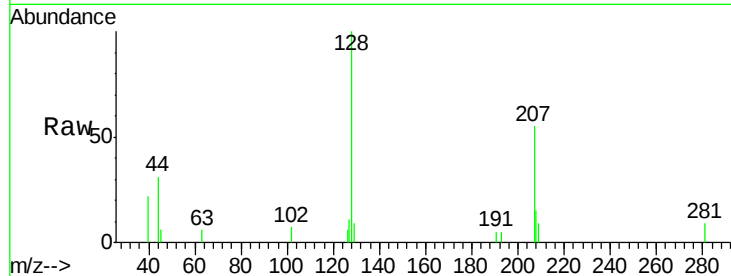
Ion 144.80 (144.50 to 145.50): VN053907.D (-4085) (-)



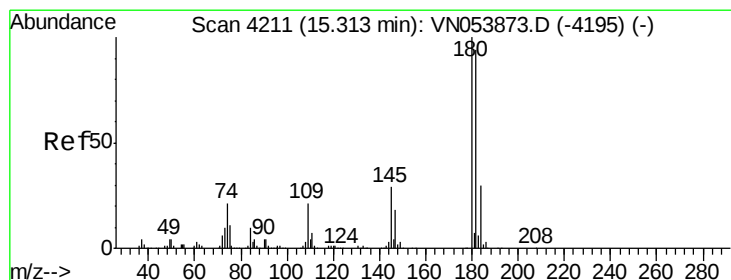
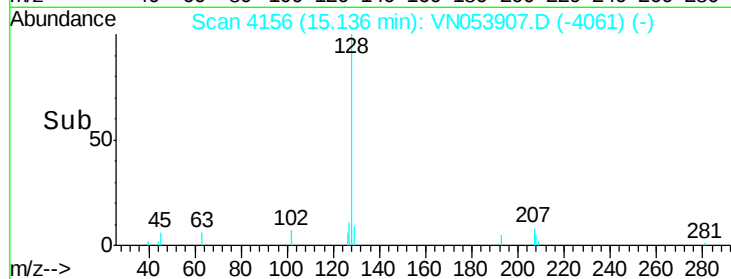
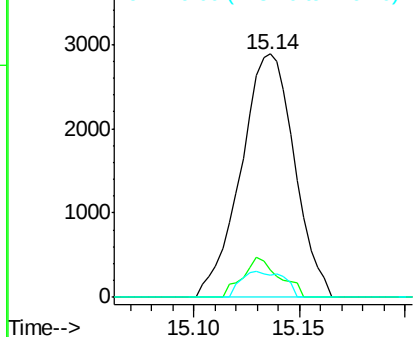


#95
Naphthalene
Concen: 4.921 ug/l
RT: 15.14 min Scan# 4156
Delta R.T. 0.00 min
Lab File: VN053907.D
Acq: 22 Feb 2019 11:18

Tot Ion:128 Resp: 5072
Ion Ratio Lower Upper
128 100
127 11.2 10.2 15.2
129 8.5 8.6 12.8#

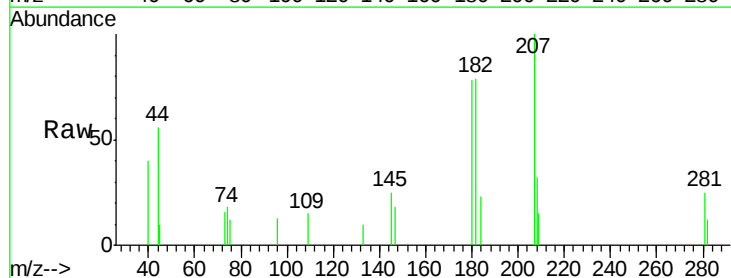


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 2.859 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN053907.D
Acq: 22 Feb 2019 11:18

Tgt Ion:180 Resp: 2181
Ion Ratio Lower Upper
180 100
182 95.4 47.3 141.8
145 23.1 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

