

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020719\
 Data File : VN053650.D
 Acq On : 7 Feb 2019 12:46
 Operator : JC/SP
 Sample : PB116887ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Quant Time: Feb 09 00:27:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	772136	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1280277	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1155562	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	479193	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	411131	53.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.16%	
35) Dibromofluoromethane	7.59	113	407806	50.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.82%	
50) Toluene-d8	10.09	98	1536458	50.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.16%	
62) 4-Bromofluorobenzene	12.40	95	507190	50.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.12%	

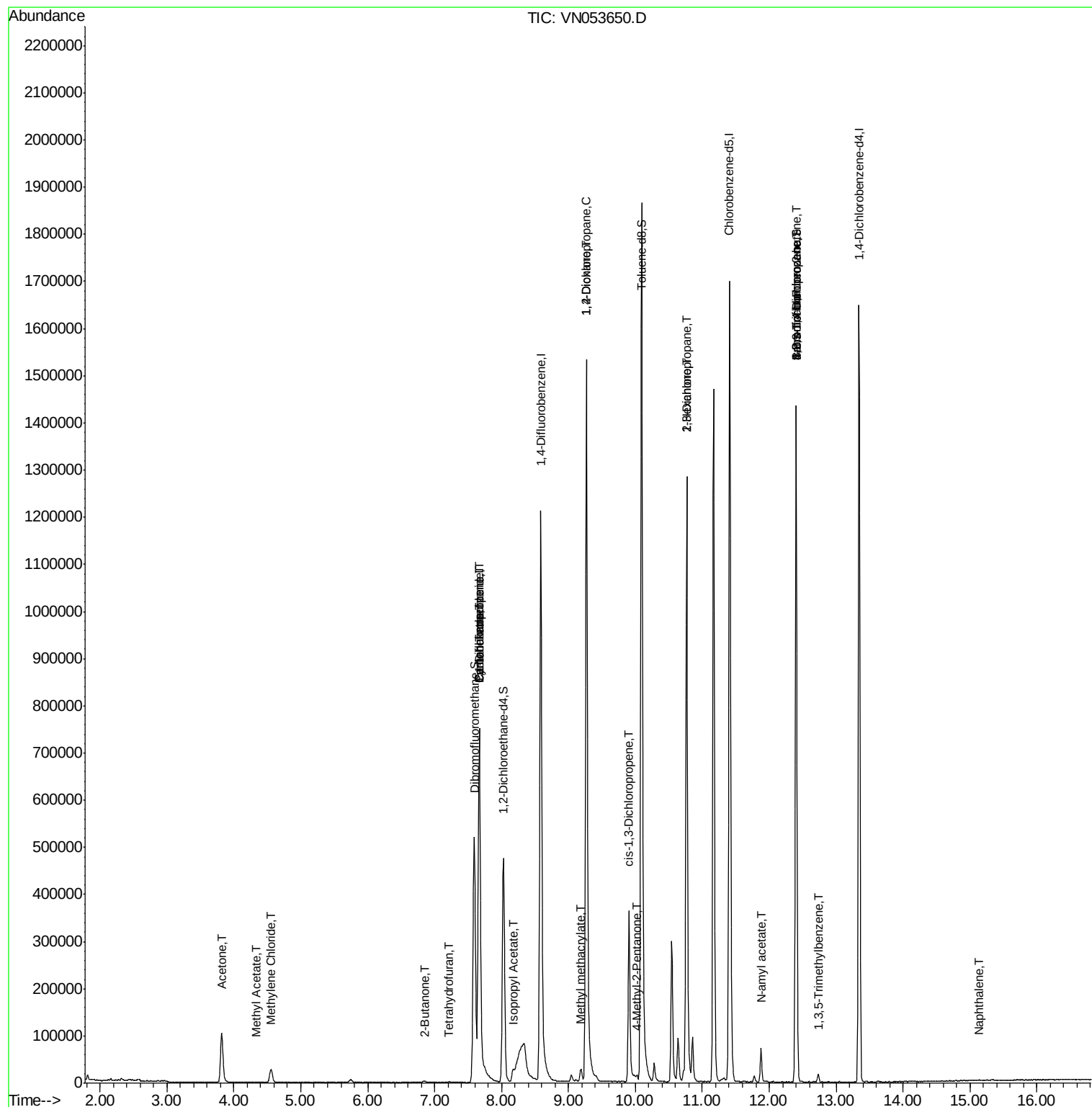
Target Compounds

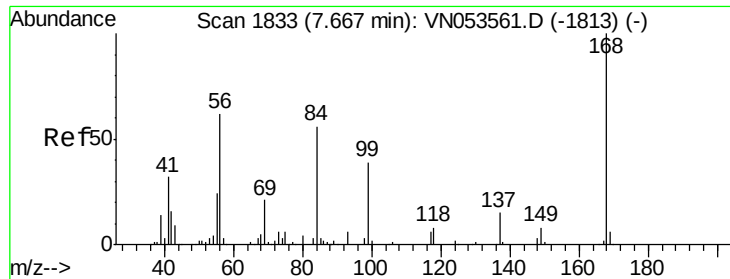
					Qvalue	
16) Acetone	3.82	43	181870	91.536	ug/l	99
18) Methyl Acetate	4.33	43	2777	0.472	ug/l #	56
20) Methylene Chloride	4.55	84	21782	2.613	ug/l	91
25) 2-Butanone	6.85	43	4880	1.722	ug/l #	89
29) Tetrahydrofuran	7.21	42	955	0.525	ug/l #	83
31) Cyclohexane	7.67	56	10836	0.660	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	46507	4.030	ug/l #	48
38) Carbon Tetrachloride	7.67	117	62515	5.377	ug/l #	16
43) Isopropyl Acetate	8.17	43	34263	2.753	ug/l #	82
45) 1,2-Dichloropropane	9.27	63	2050	0.225	ug/l #	43
48) Methyl methacrylate	9.18	41	10722	1.804	ug/l #	12
49) 1,4-Dioxane	9.26	88	63	39.801	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	8830	1.444	ug/l #	34
54) cis-1,3-Dichloropropene	9.91	75	78416	5.792	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	15509	1.192	ug/l #	43
59) 2-Hexanone	10.77	43	196611	47.346	ug/l #	51
71) Bromoform	12.40	173	3382	0.575	ug/l #	1
74) N-amyl acetate	11.88	43	22157	2.735	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	232850	37.831	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8661	0.310	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	232850	106.379	ug/l #	15
95) Naphthalene	15.14	128	1094	1.786	ug/l #	69

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

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QLast Update : Fri Feb 01 09:11:52 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: VN053650.D

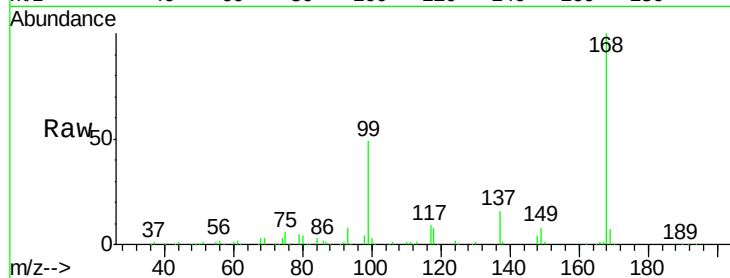
Acq: 7 Feb 2019 12:46

Tot Ion:168 Resp: 772136

Ion Ratio Lower Upper

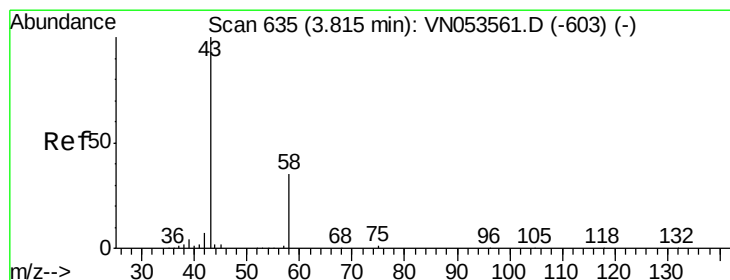
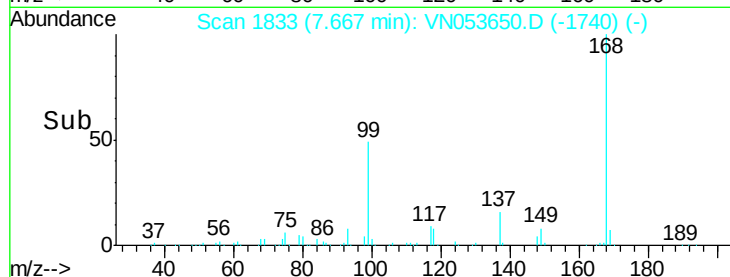
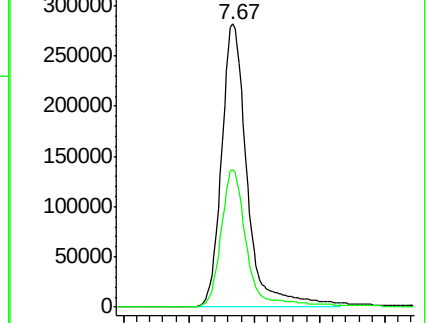
168 100

99 48.7 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 91.536 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053650.D

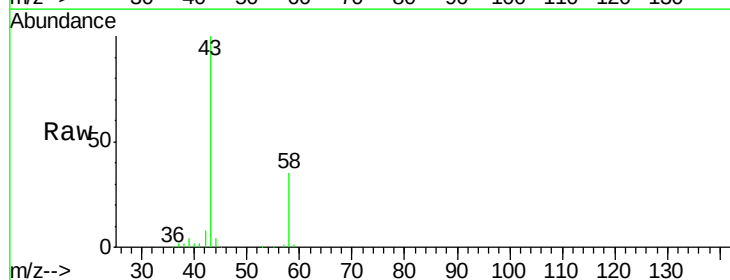
Acq: 7 Feb 2019 12:46

Tgt Ion: 43 Resp: 181870

Ion Ratio Lower Upper

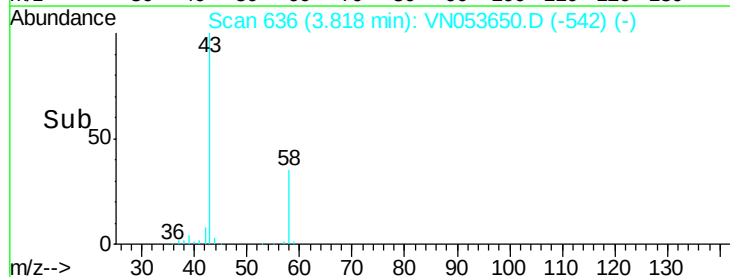
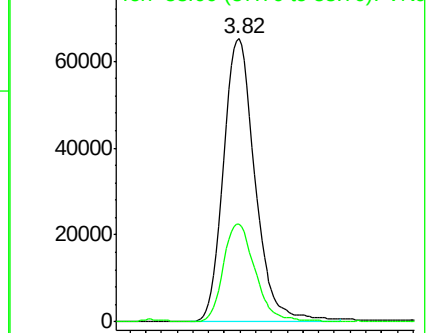
43 100

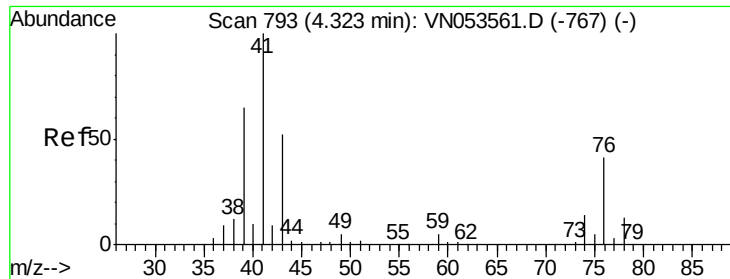
58 34.5 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

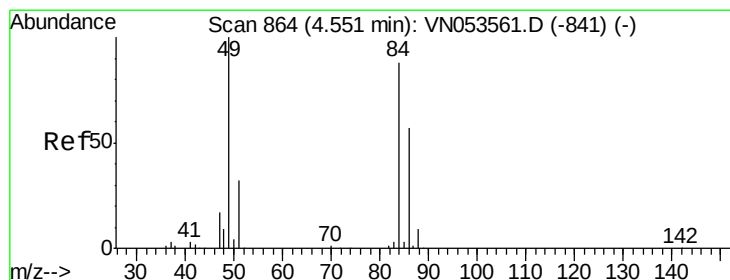
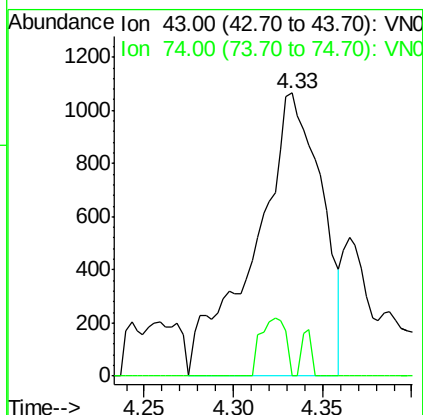
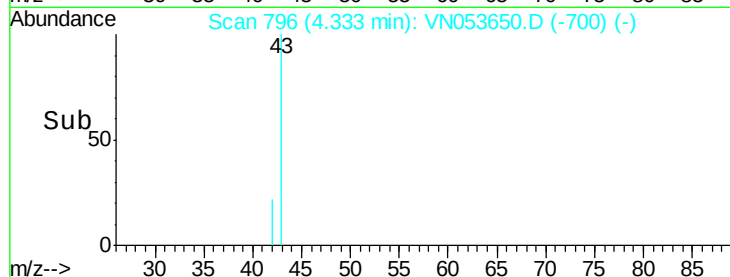
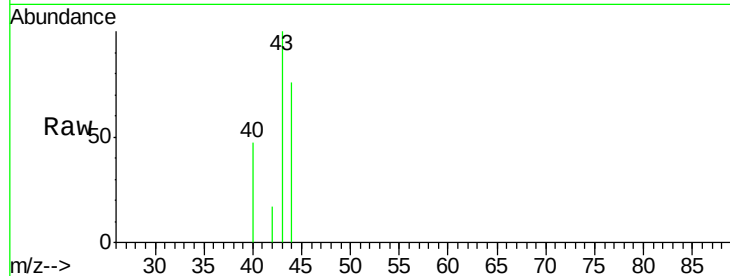
Ion 58.00 (57.70 to 58.70): VNO





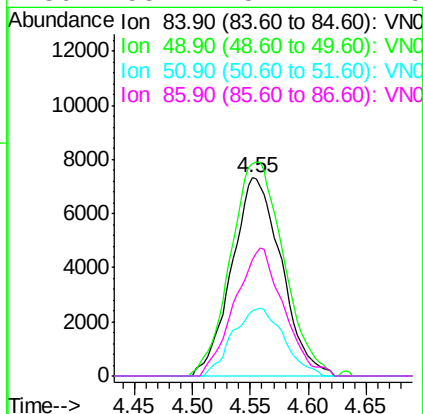
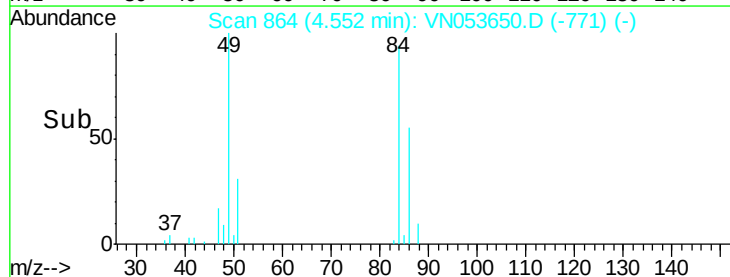
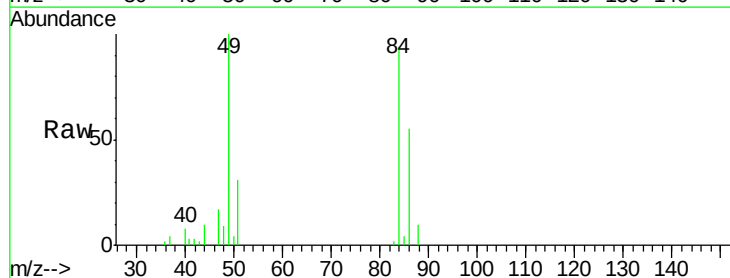
#18
Methyl Acetate
Concen: 0.472 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN053650.D
Acq: 7 Feb 2019 12:46

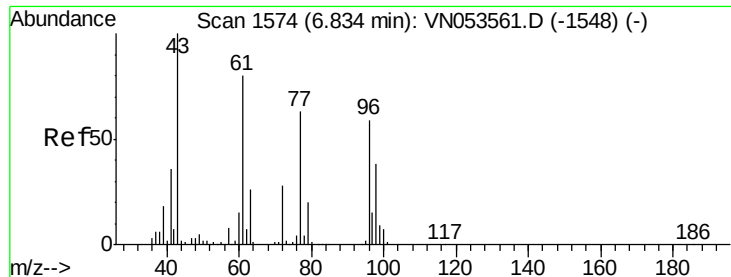
Tot Ion: 43 Resp: 2777
Ion Ratio Lower Upper
43 100
74 2.3 19.4 29.2#



#20
Methylene Chloride
Concen: 2.613 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053650.D
Acq: 7 Feb 2019 12:46

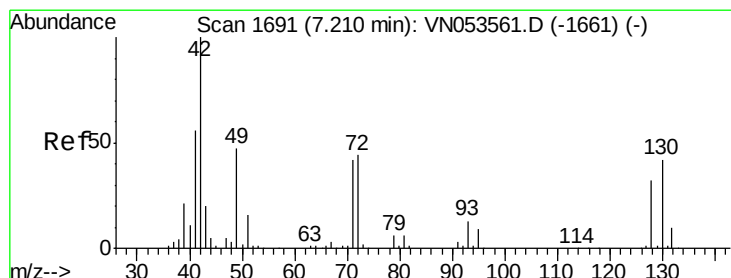
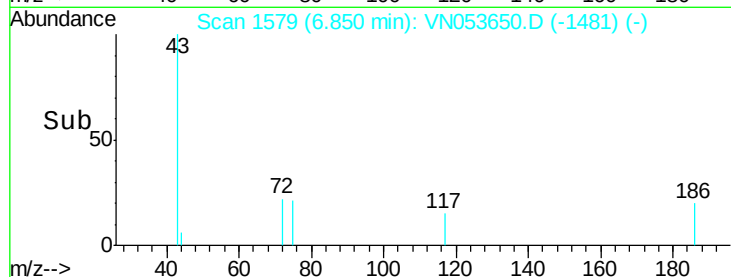
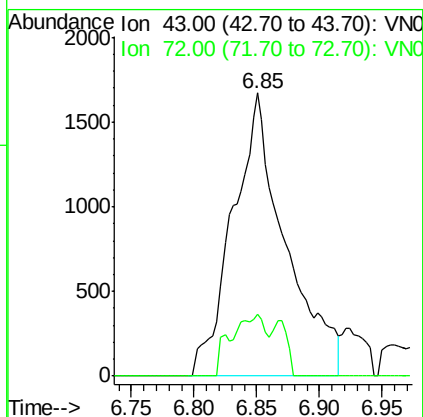
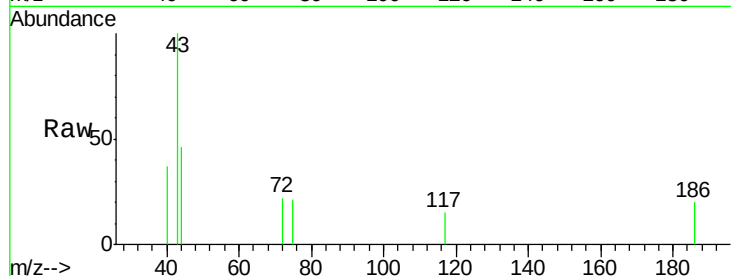
Tgt Ion: 84 Resp: 21782
Ion Ratio Lower Upper
84 100
49 106.8 94.3 141.5
51 33.1 29.4 44.2
86 58.4 51.4 77.0





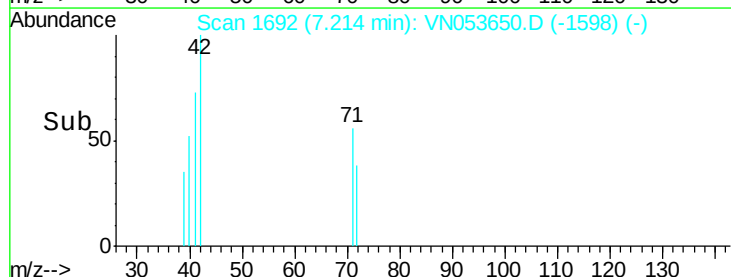
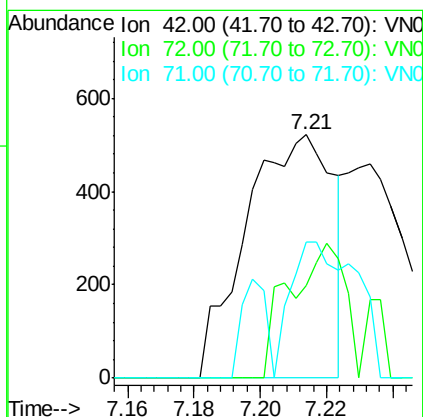
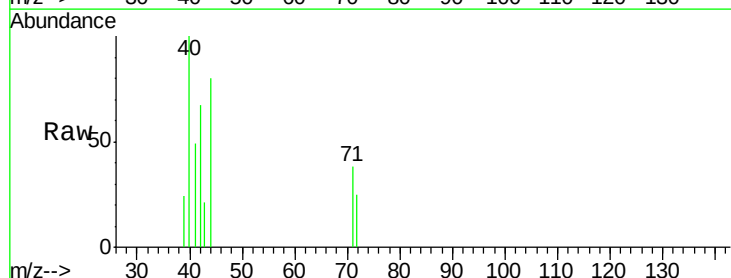
#25
2-Butanone
Concen: 1.722 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.02 min
Lab File: VN053650.D
Acq: 7 Feb 2019 12:46

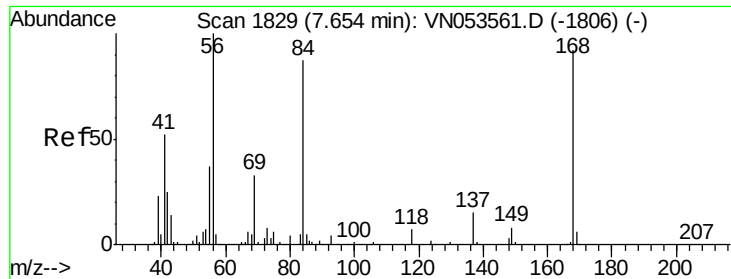
Tot Ion: 43 Resp: 4880
Ion Ratio Lower Upper
43 100
72 21.7 22.0 33.0#



#29
Tetrahydrofuran
Concen: 0.525 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN053650.D
Acq: 7 Feb 2019 12:46

Tgt Ion: 42 Resp: 955
Ion Ratio Lower Upper
42 100
72 23.7 35.2 52.8#
71 42.1 33.0 49.4





#31

Cyclohexane

Concen: 0.660 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053650.D

Acq: 7 Feb 2019 12:46

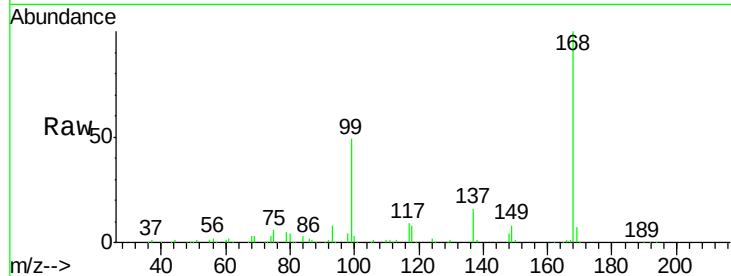
Tot Ion: 56 Resp: 10836

Ion Ratio Lower Upper

56 100

69 197.0 26.4 39.6#

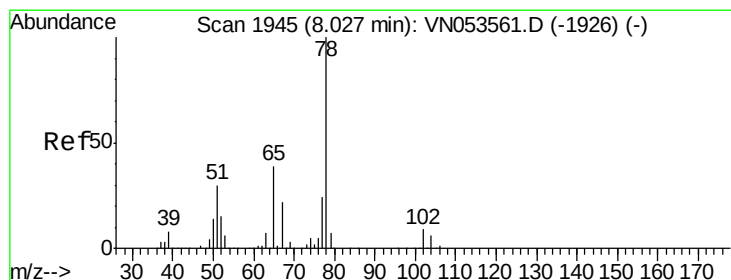
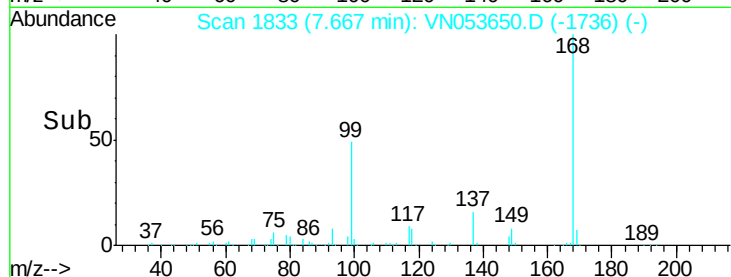
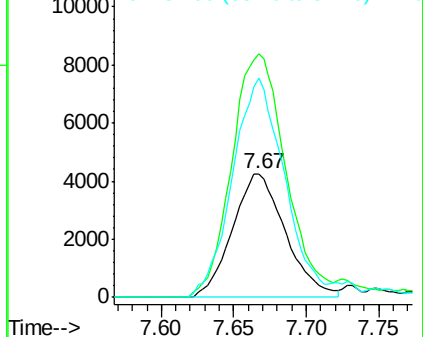
84 177.1 67.9 101.9#



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: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053650.D

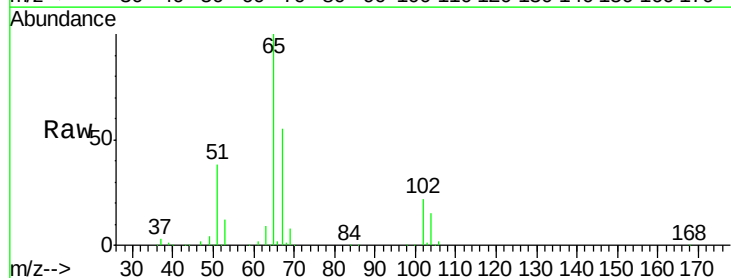
Acq: 7 Feb 2019 12:46

Tgt Ion: 65 Resp: 411131

Ion Ratio Lower Upper

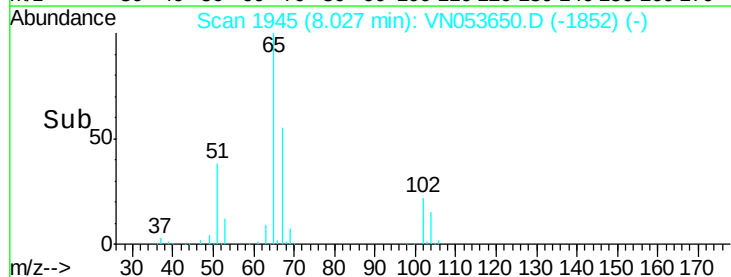
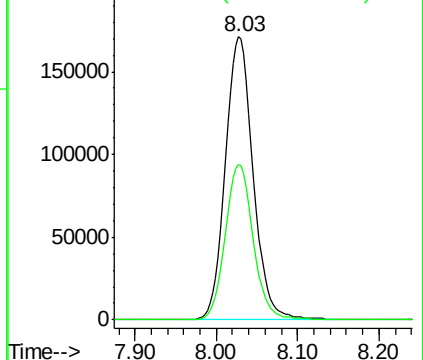
65 100

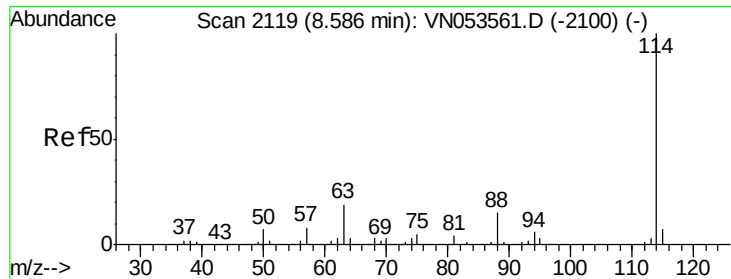
67 55.3 0.0 111.2



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: VN053650.D

Acq: 7 Feb 2019 12:46

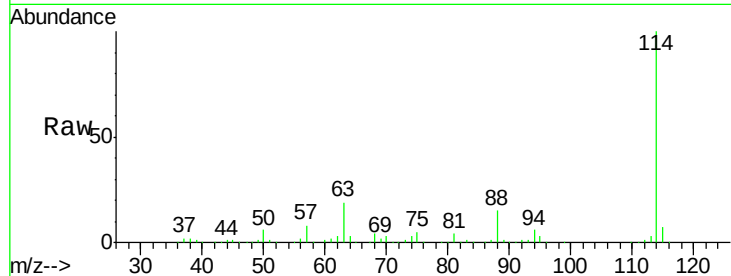
Tot Ion:114 Resp: 1280277

Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.6

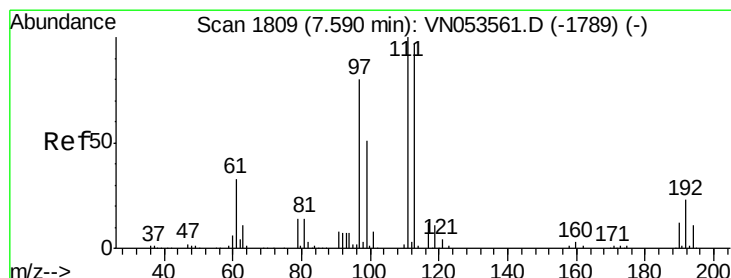
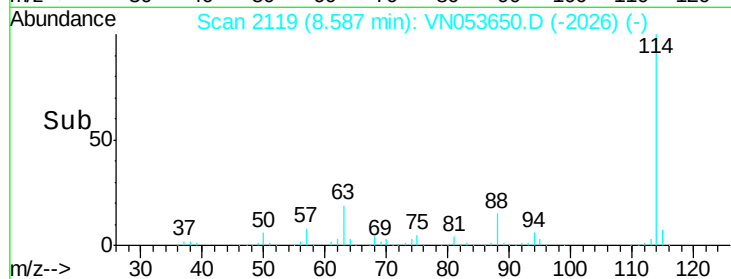
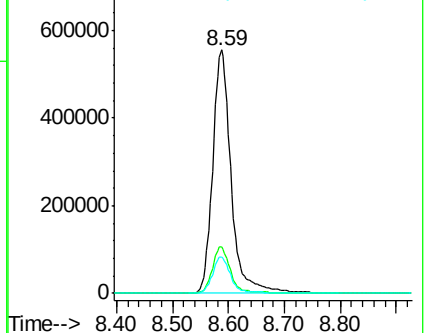
88 15.1 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053650.D

Acq: 7 Feb 2019 12:46

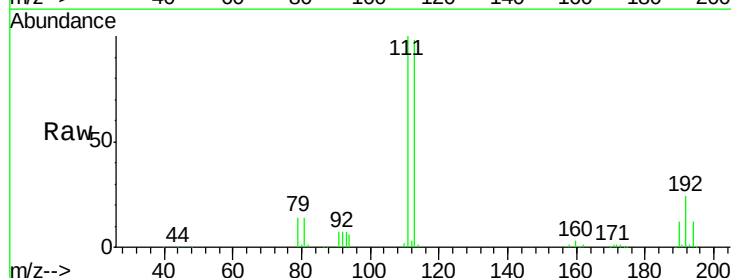
Tgt Ion:113 Resp: 407806

Ion Ratio Lower Upper

113 100

111 102.4 81.1 121.7

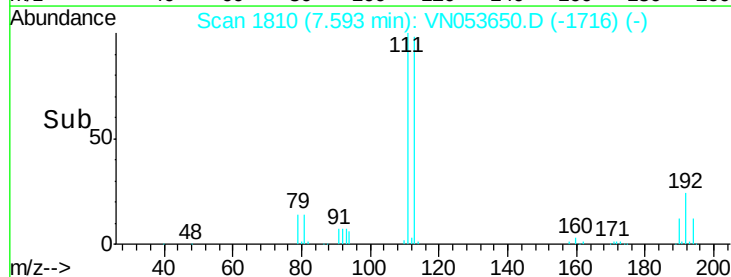
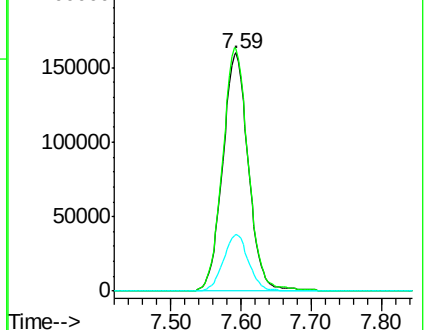
192 23.3 18.2 27.2

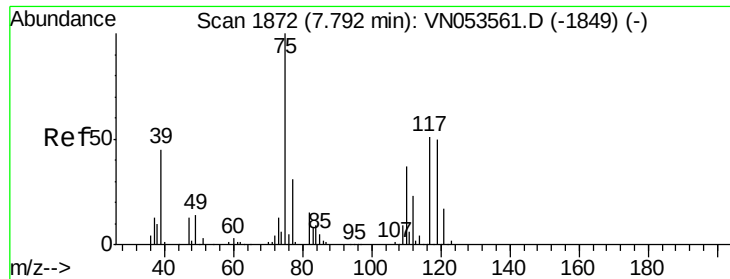


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.030 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN053650.D

Acq: 7 Feb 2019 12:46

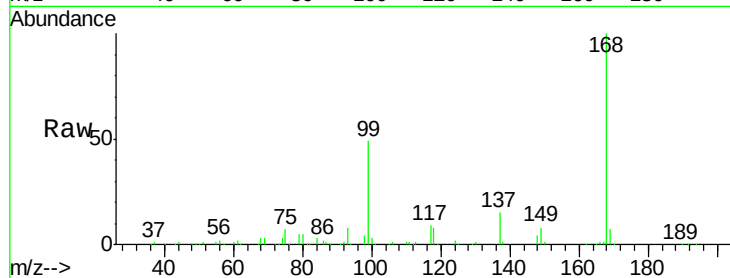
Tot Ion: 75 Resp: 46507

Ion Ratio Lower Upper

75 100

110 8.2 18.1 54.3#

77 0.0 25.1 37.7#

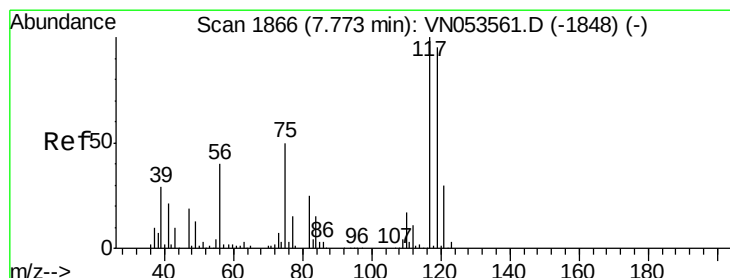
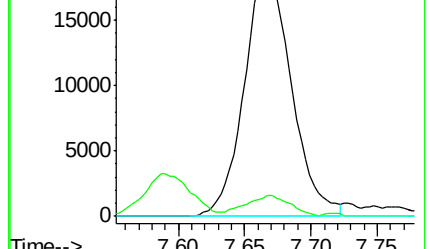
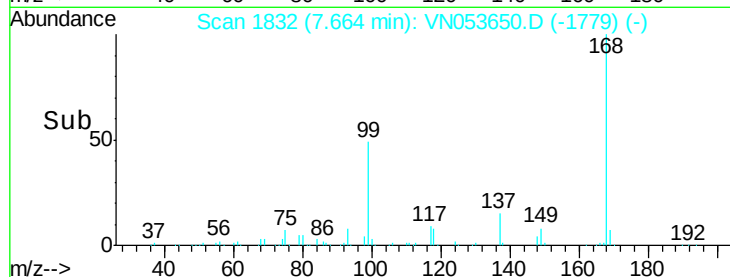


Abundance Ion 74.90 (74.60 to 75.60): VN053650.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN053650.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN053650.D (-1779) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.377 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053650.D

Acq: 7 Feb 2019 12:46

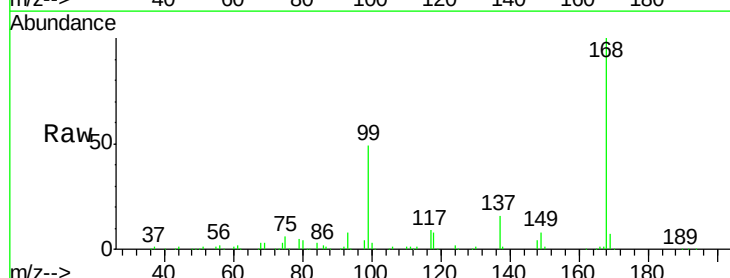
Tgt Ion: 117 Resp: 62515

Ion Ratio Lower Upper

117 100

119 4.9 77.2 115.8#

121 0.0 24.6 37.0#

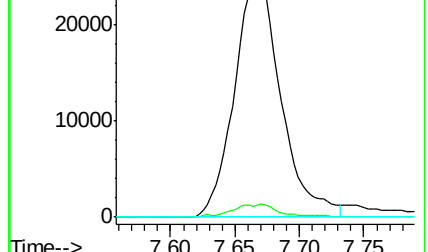
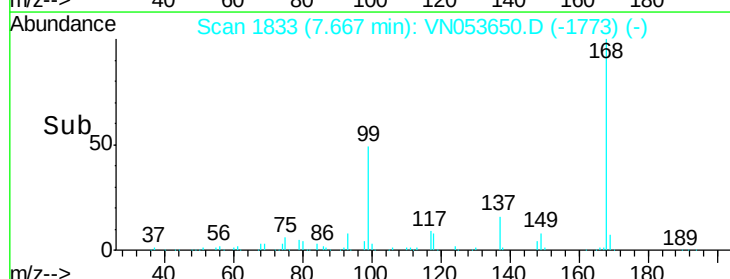


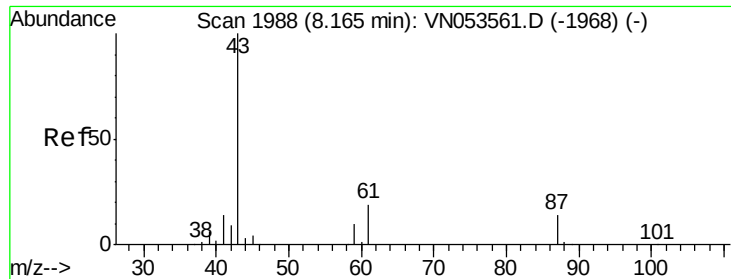
Abundance Ion 116.80 (116.50 to 117.50): VN053650.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN053650.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN053650.D (-1773) (-)

Time-->





#43

Isopropyl Acetate

Concen: 2.753 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN053650.D

Acq: 7 Feb 2019 12:46

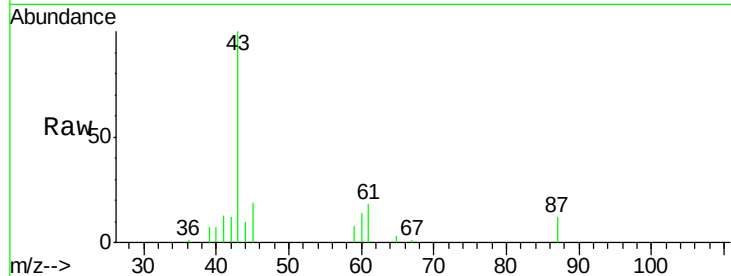
Tot Ion: 43 Resp: 34263

Ion Ratio Lower Upper

43 100

61 17.9 23.9 35.9#

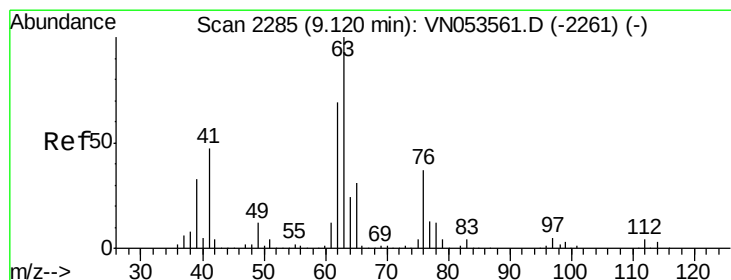
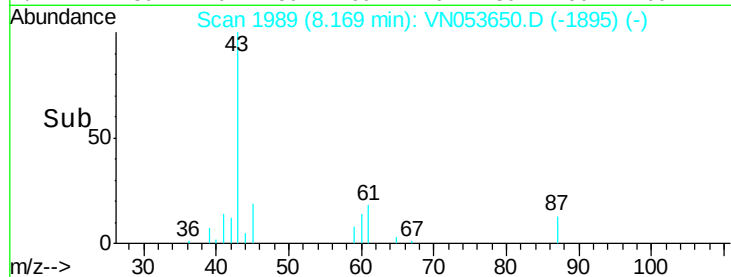
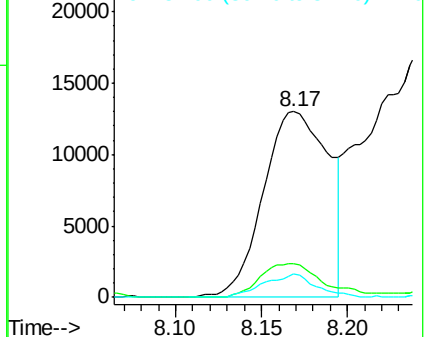
87 10.1 11.0 16.6#



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: 0.225 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN053650.D

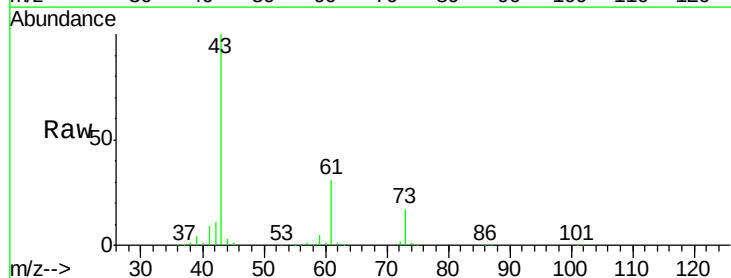
Acq: 7 Feb 2019 12:46

Tgt Ion: 63 Resp: 2050

Ion Ratio Lower Upper

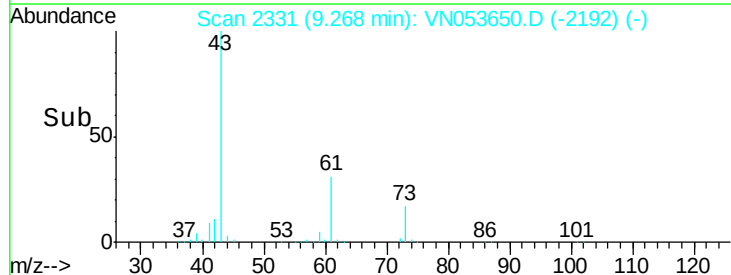
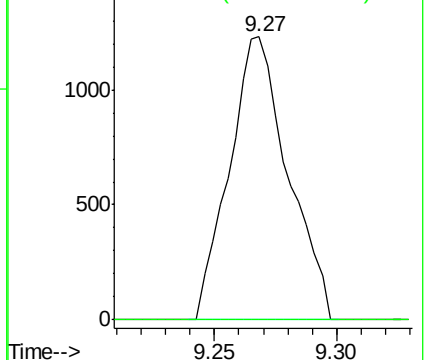
63 100

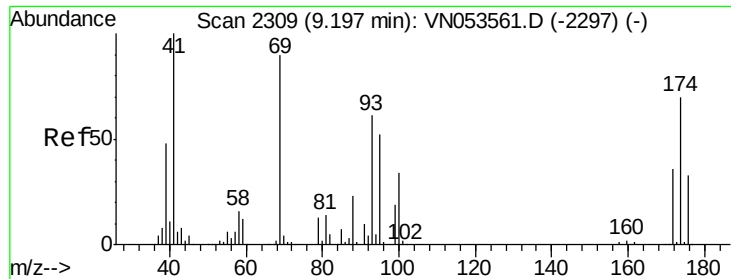
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

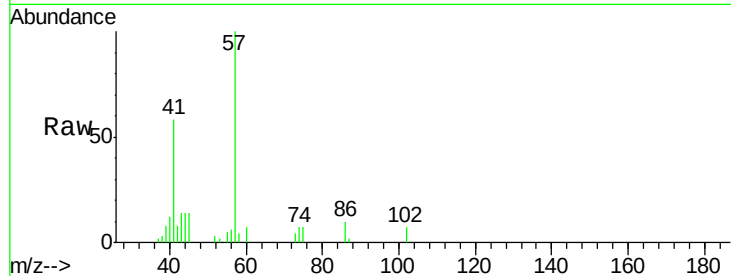
Ion 64.90 (64.60 to 65.60): VN0



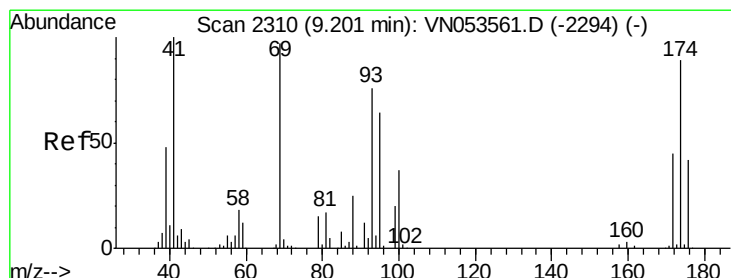
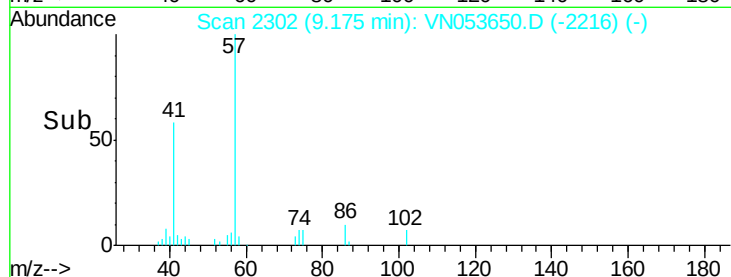
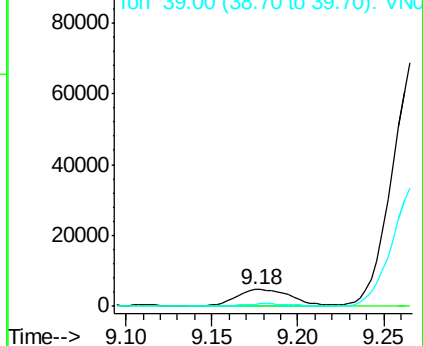


#48
Methvl methacrylate
Concen: 1.804 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN053650.D
Acq: 7 Feb 2019 12:46

Tot Ion: 41 Resp: 10722
Ion Ratio Lower Upper
41 100
69 0.0 73.8 110.6#
39 0.0 40.0 60.0#

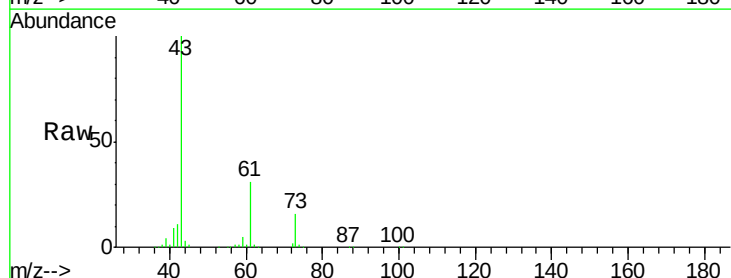


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

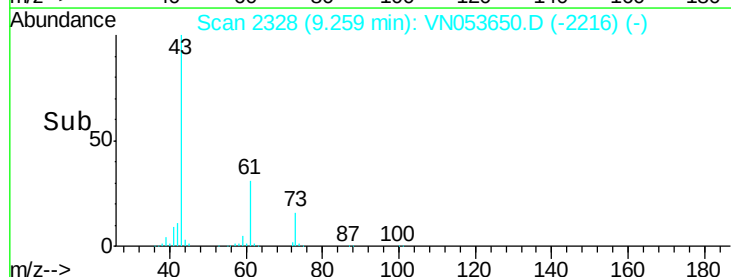
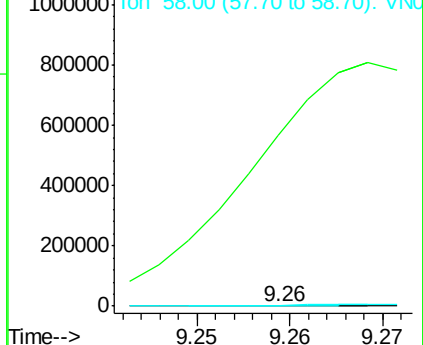


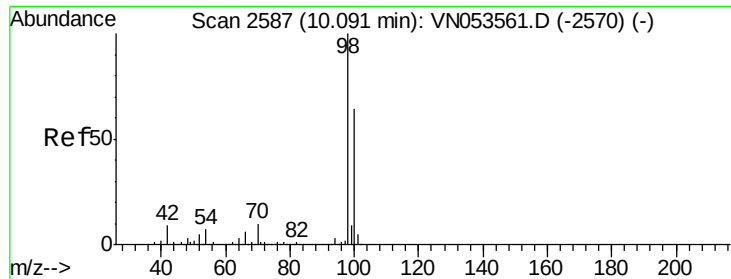
#49
1,4-Dioxane
Concen: 39.801 ug/l
RT: 9.26 min Scan# 2328
Delta R.T. 0.06 min
Lab File: VN053650.D
Acq: 7 Feb 2019 12:46

Tgt Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 2633058.7 27.8 41.6#
58 13568.3 56.5 84.7#



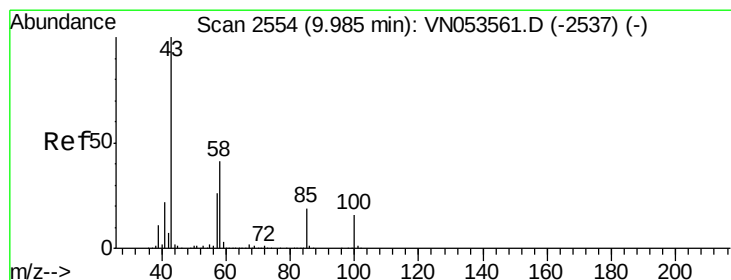
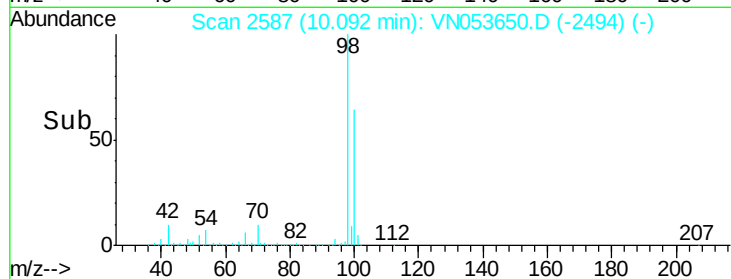
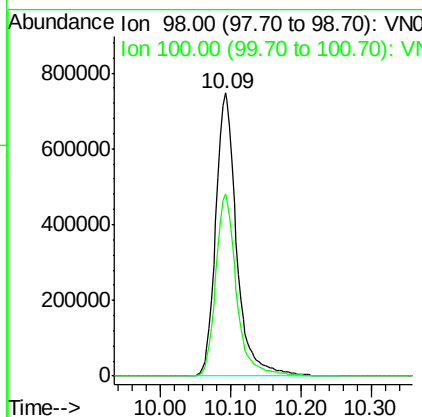
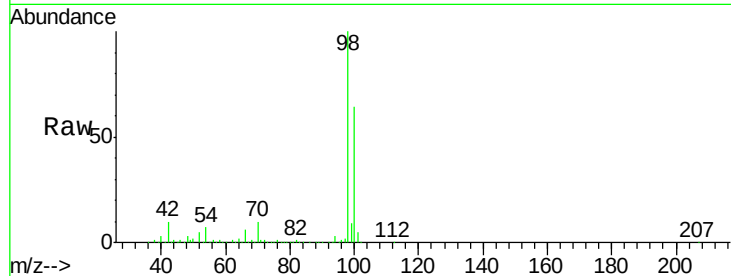
Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0





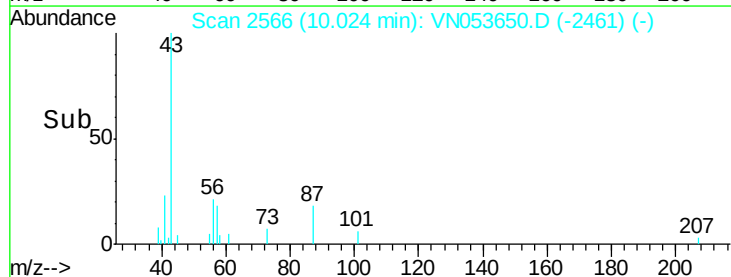
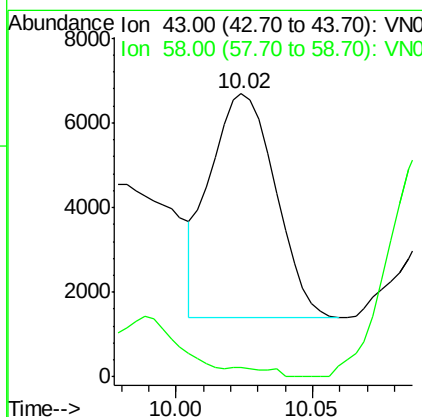
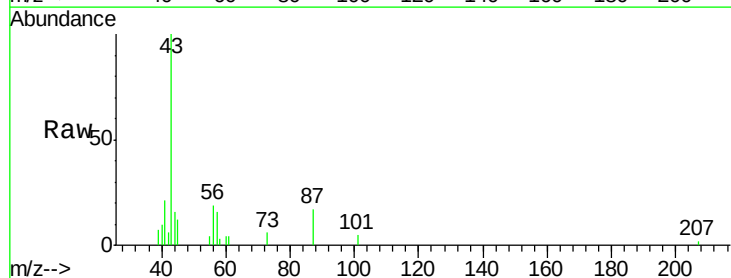
#50
Toluene-d8
Concen: 39.801 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053650.D
Acq: 7 Feb 2019 12:46

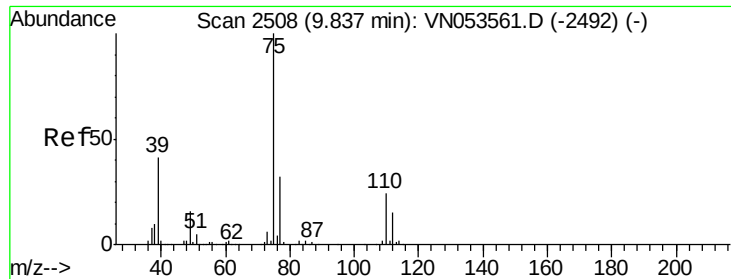
Tot Ion: 98 Resp: 1536458
Ion Ratio Lower Upper
98 100
100 64.2 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 1.444 ug/l
RT: 10.02 min Scan# 2566
Delta R.T. 0.04 min
Lab File: VN053650.D
Acq: 7 Feb 2019 12:46

Tgt Ion: 43 Resp: 8830
Ion Ratio Lower Upper
43 100
58 0.0 32.8 49.2#





#54

cis-1,3-Dichloropropene

Concen: 5.792 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053650.D

Acq: 7 Feb 2019 12:46

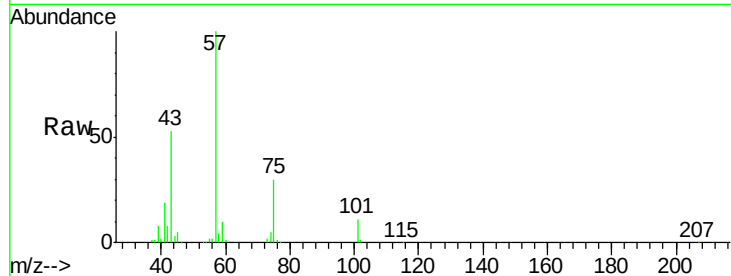
Tot Ion: 75 Resp: 78416

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

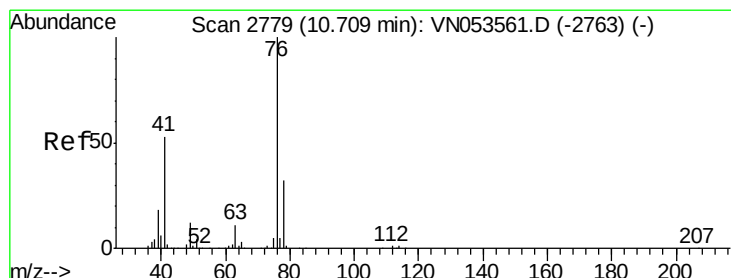
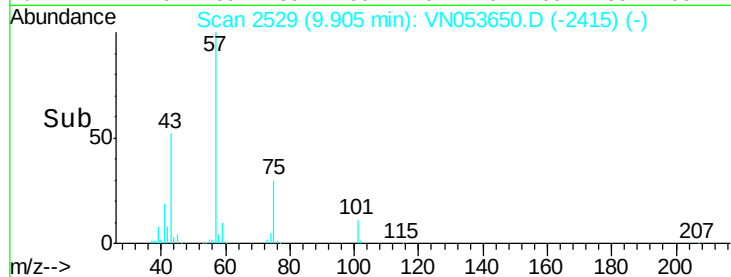
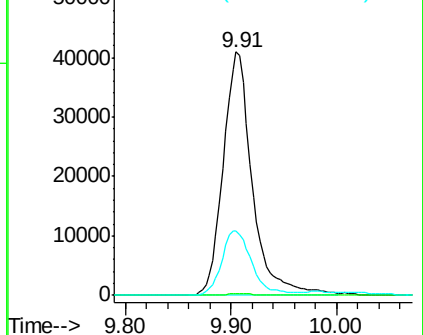
39 26.2 33.4 50.0#



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



#57

1,3-Dichloropropane

Concen: 1.192 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053650.D

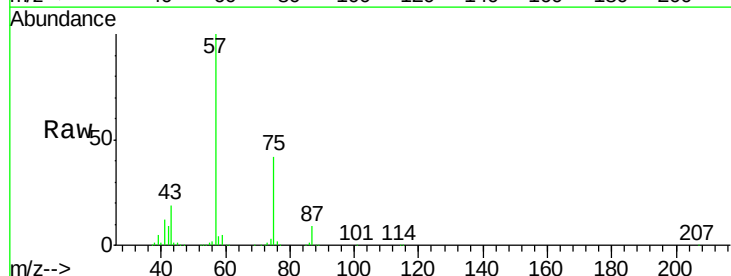
Acq: 7 Feb 2019 12:46

Tgt Ion: 76 Resp: 15509

Ion Ratio Lower Upper

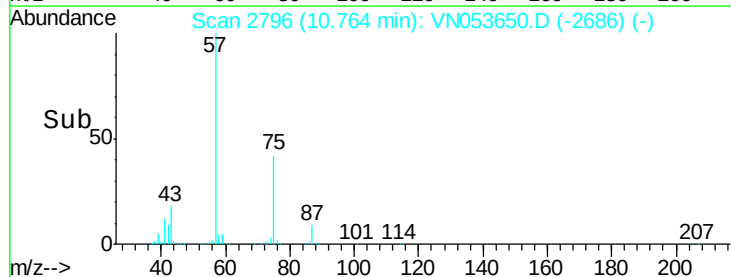
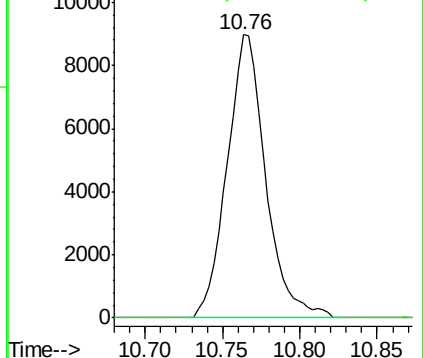
76 100

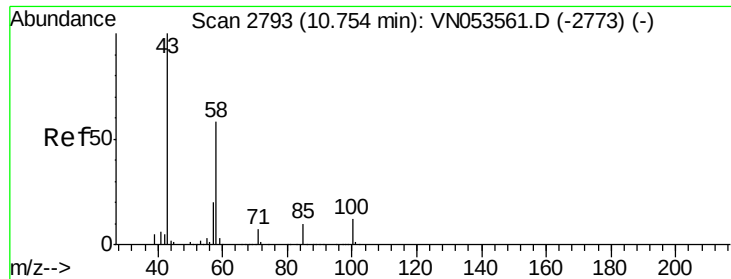
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

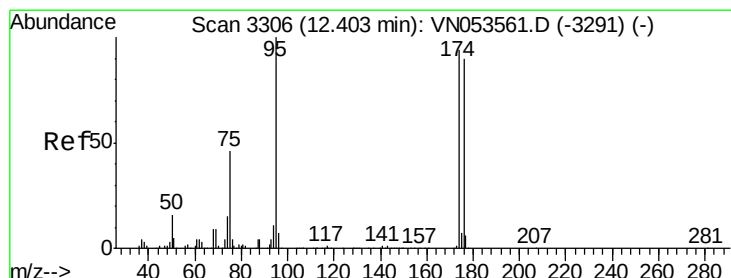
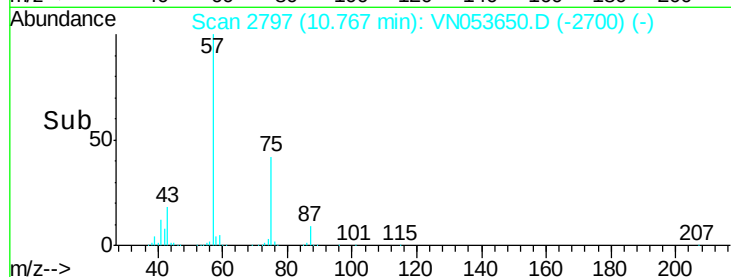
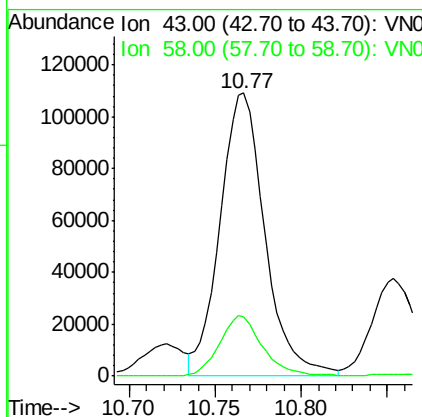
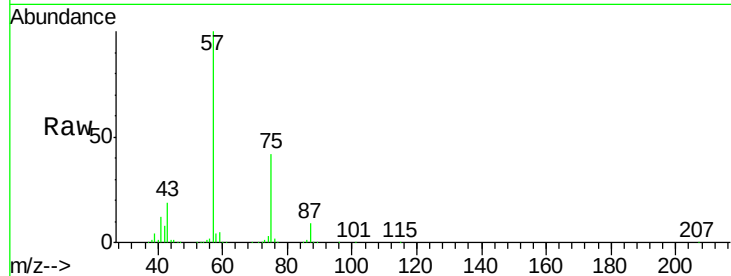
Ion 77.90 (77.60 to 78.60): VN0





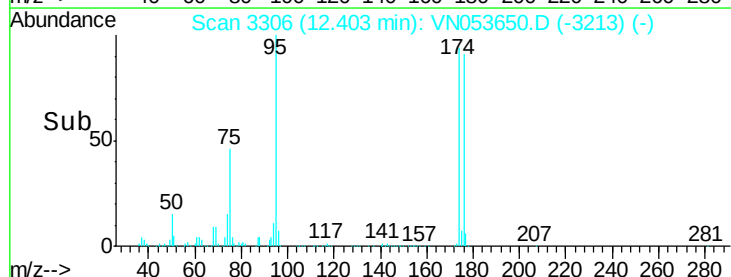
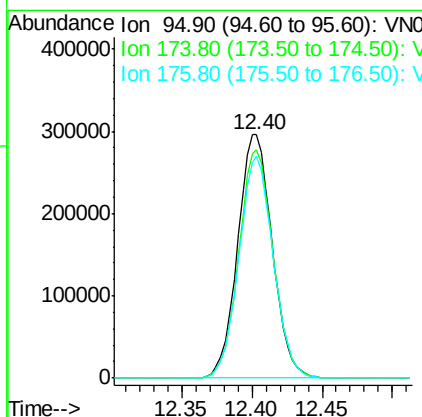
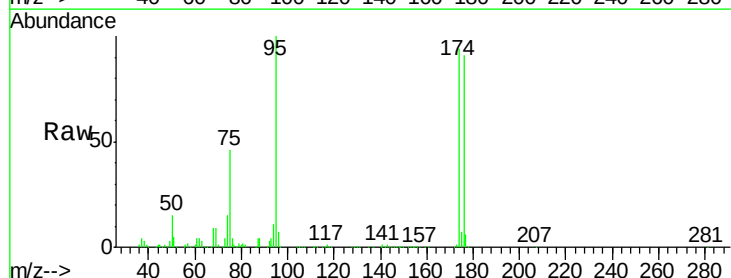
#59
2-Hexanone
Concen: 47.346 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN053650.D
Acq: 7 Feb 2019 12:46

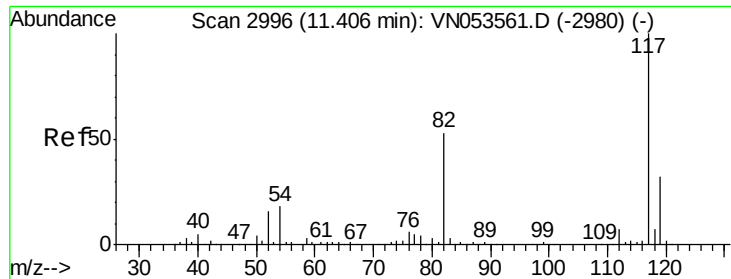
Tot Ion: 43 Resp: 196611
Ion Ratio Lower Upper
43 100
58 20.9 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN053650.D
Acq: 7 Feb 2019 12:46

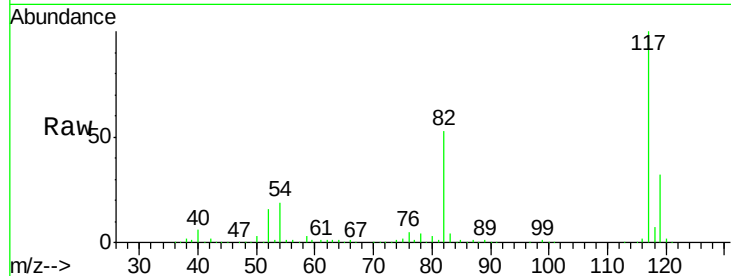
Tgt Ion: 95 Resp: 507190
Ion Ratio Lower Upper
95 100
174 93.5 0.0 183.2
176 90.5 0.0 177.4



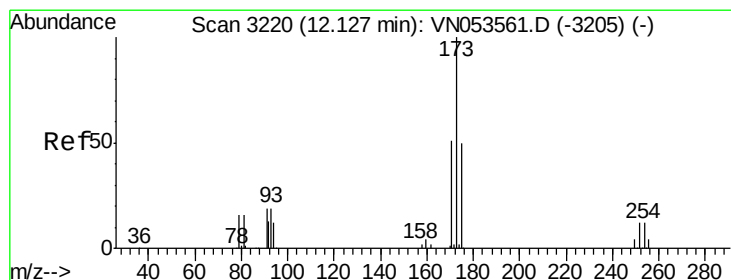
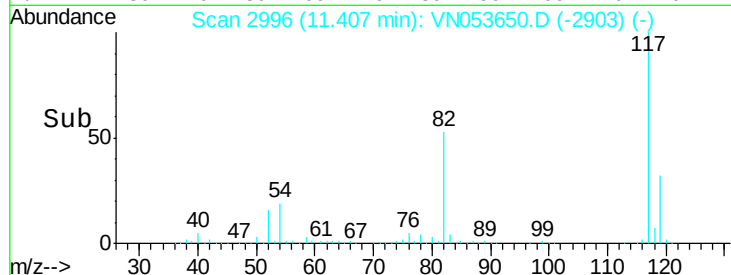
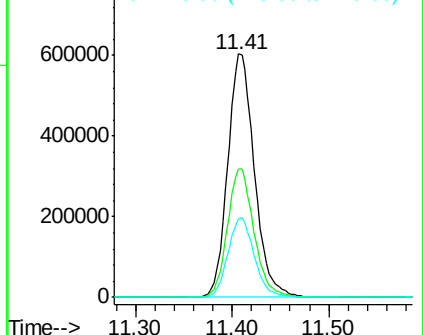


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053650.D
Acq: 7 Feb 2019 12:46

Tot Ion:117 Resp: 1155562
Ion Ratio Lower Upper
117 100
82 52.9 42.9 64.3
119 32.2 26.0 39.0

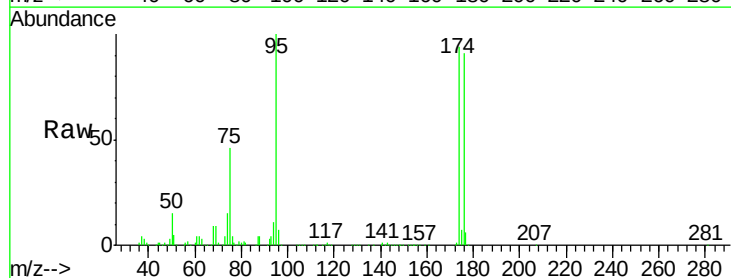


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

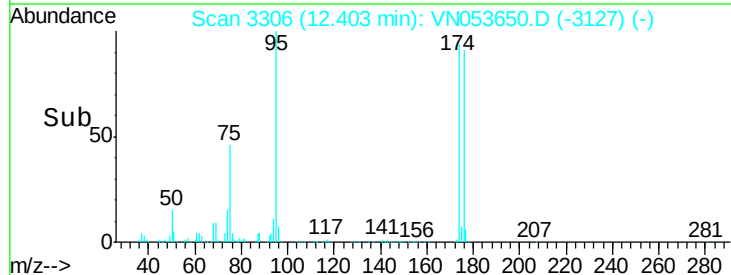
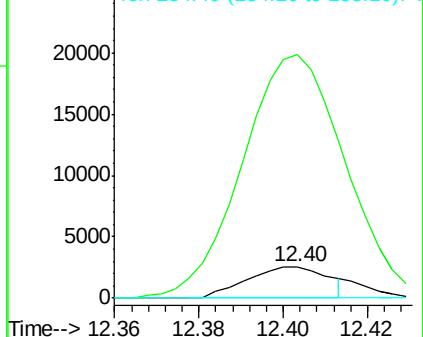


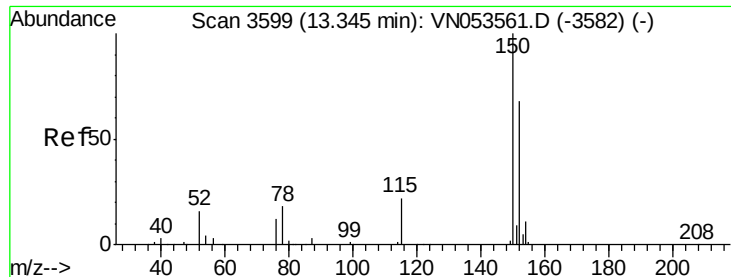
#71
Bromoform
Concen: 0.575 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053650.D
Acq: 7 Feb 2019 12:46

Tgt Ion:173 Resp: 3382
Ion Ratio Lower Upper
173 100
175 850.5 24.6 74.0#
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

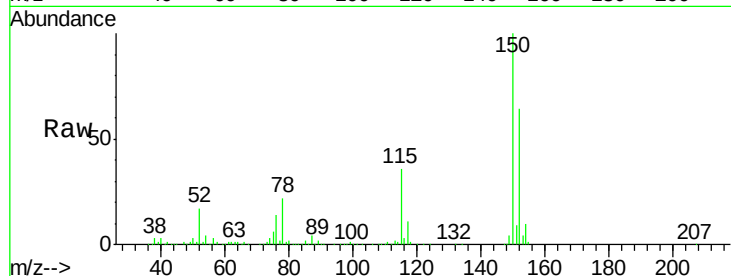




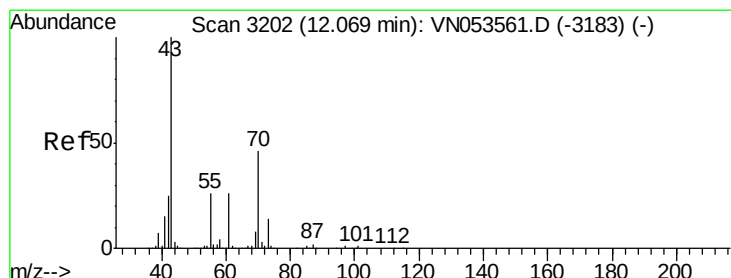
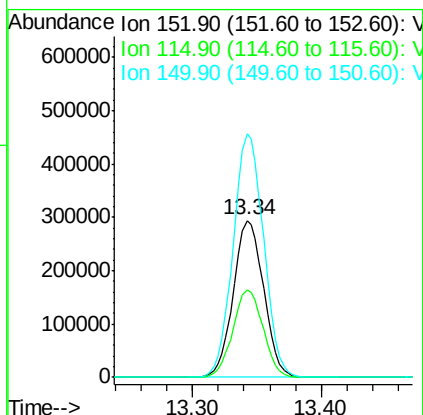
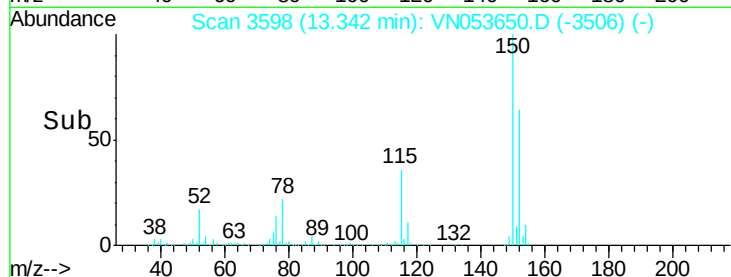
#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053650.D
Acq: 7 Feb 2019 12:46

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.7	27.8	83.4
150	156.2	0.0	349.0



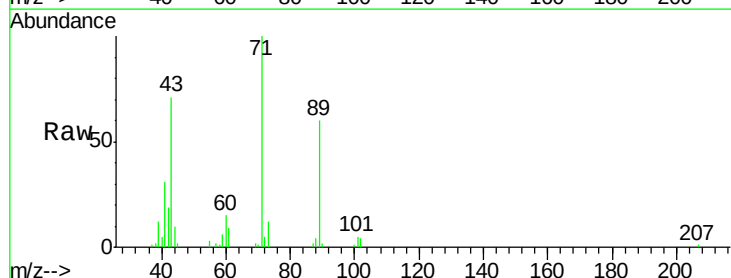
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



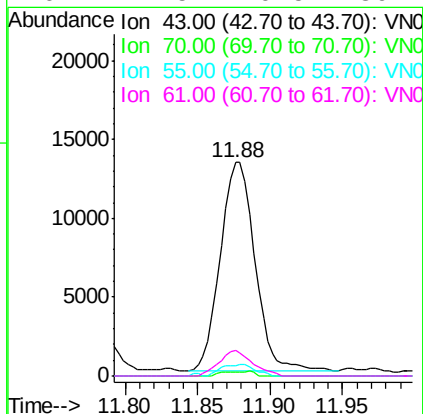
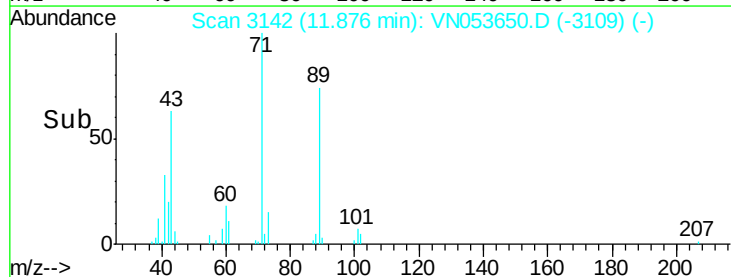
#74

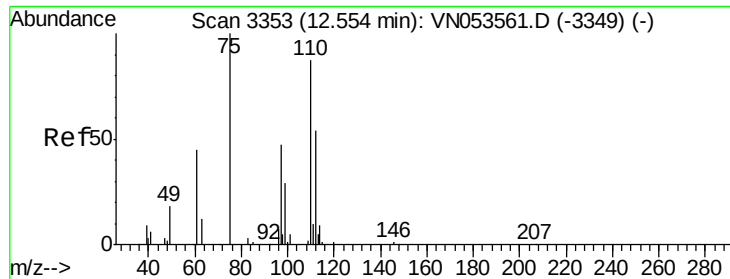
N-ethyl acetate
Concen: 2.735 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN053650.D
Acq: 7 Feb 2019 12:46

Tgt Ion	Ratio	Lower	Upper
43	100		
70	1.2	35.4	53.2#
55	5.2	20.9	31.3#
61	11.5	20.5	30.7#



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

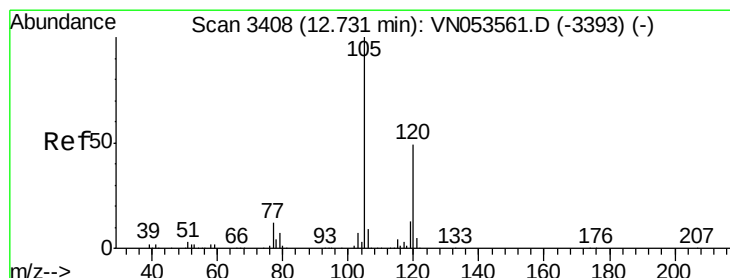
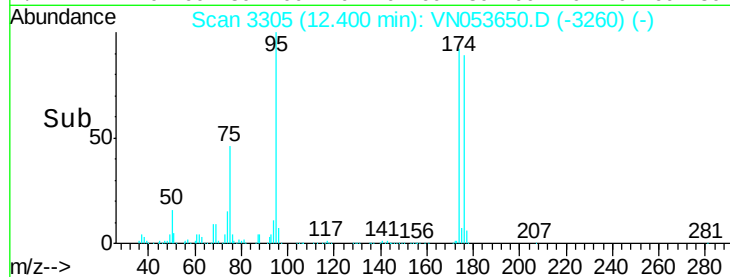
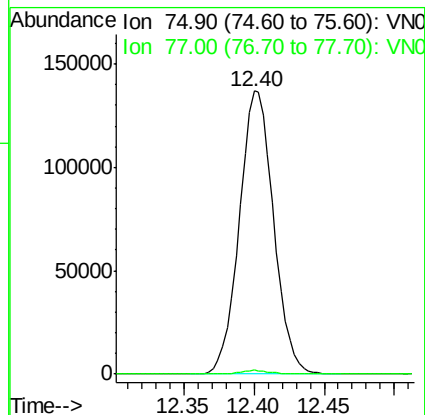
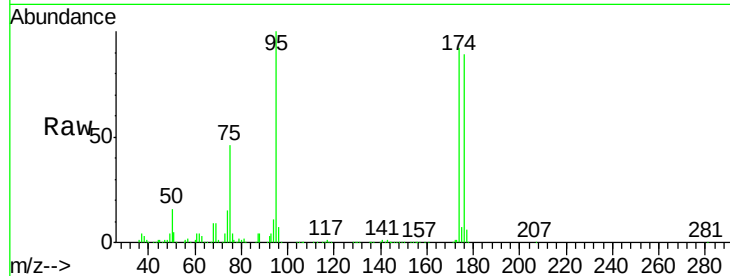




#76

1,2,3-Trichloropropane
Concen: 37.831 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN053650.D
Acq: 7 Feb 2019 12:46

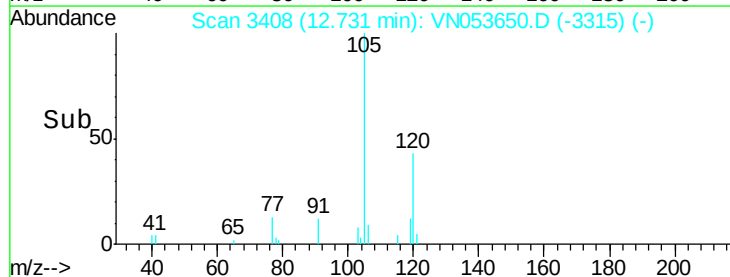
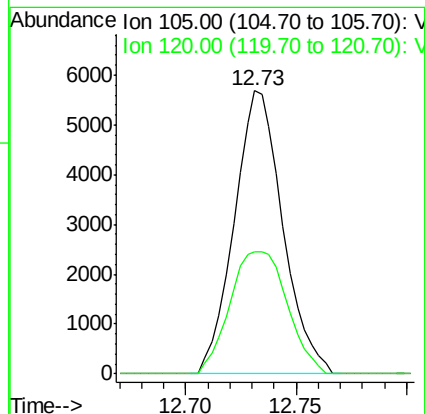
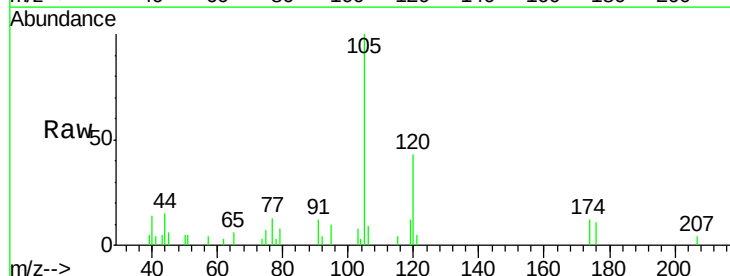
Tot Ion: 75 Resp: 232850
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#

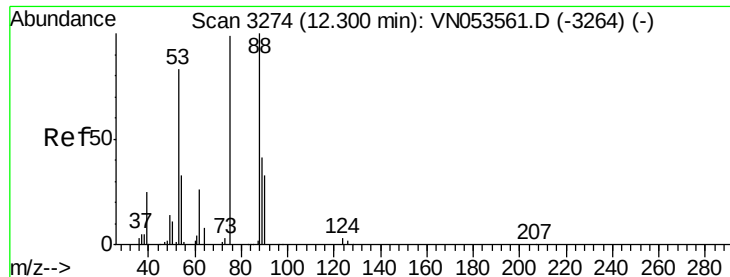


#80

1,3,5-Trimethylbenzene
Concen: 0.310 ug/l
RT: 12.73 min Scan# 3408
Delta R.T. 0.00 min
Lab File: VN053650.D
Acq: 7 Feb 2019 12:46

Tgt Ion: 105 Resp: 8661
Ion Ratio Lower Upper
105 100
120 51.0 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 106.379 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053650.D

Acq: 7 Feb 2019 12:46

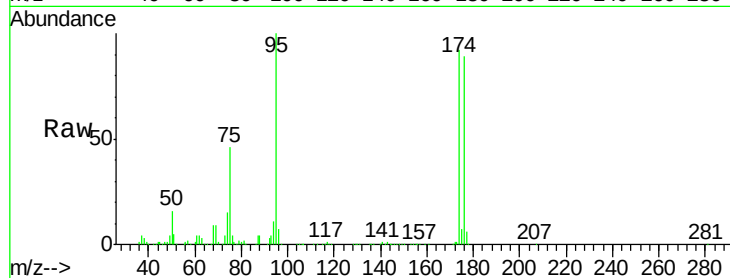
Tot Ion: 75 Resp: 232850

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

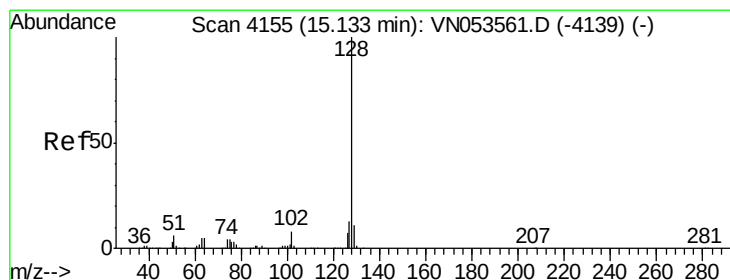
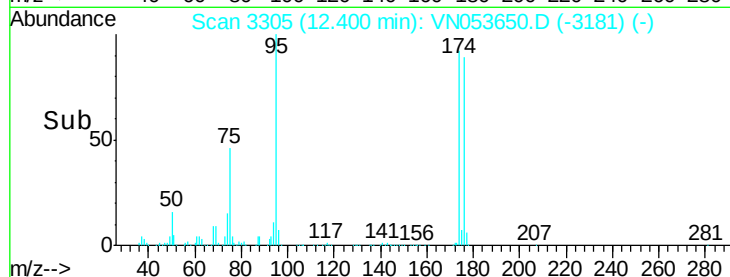
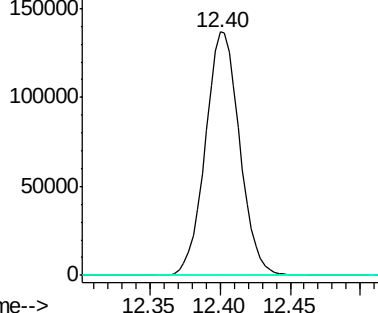
89 0.0 35.6 53.4#



Abundance Ion 74.90 (74.60 to 75.60): VN053650.D (-3305) (-)

Ion 53.00 (52.70 to 53.70): VN053650.D (-3305) (-)

Ion 88.90 (88.60 to 89.60): VN053650.D (-3305) (-)



#95

Naphthalene

Concen: 1.786 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN053650.D

Acq: 7 Feb 2019 12:46

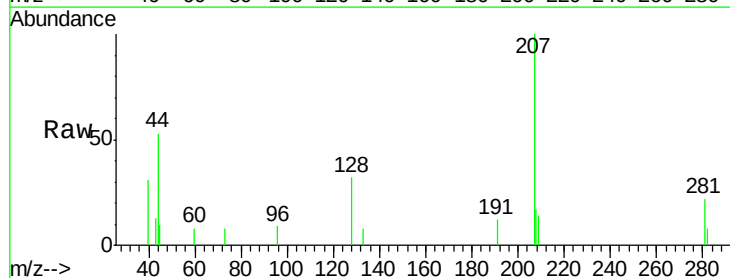
Tgt Ion: 128 Resp: 1094

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): VN053650.D (-4156) (-)

Ion 127.00 (126.70 to 127.70): VN053650.D (-4156) (-)

Ion 129.00 (128.70 to 129.70): VN053650.D (-4156) (-)

