

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072418\
 Data File : VN050025.D
 Acq On : 24 Jul 2018 17:08
 Operator : MD\SY
 Sample : J4111-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

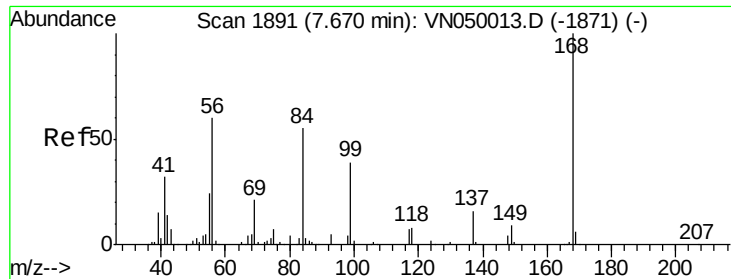
Quant Time: Jul 25 00:49:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 24 06:27:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	632698	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1006637	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	844328	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	290872	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	451828	51.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.36%	
35) Dibromofluoromethane	7.60	113	400108	48.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.36%	
50) Toluene-d8	10.09	98	1381506	45.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.44%	
62) 4-Bromofluorobenzene	12.41	95	364496	36.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.26%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	1115	Below Cal	#	39
18) Methyl Acetate	4.33	43	6890	Below Cal	#	66
20) Methylene Chloride	4.55	84	5640	Below Cal		94
29) Tetrahydrofuran	7.22	42	509	0.23	ug/l	# 57
31) Cyclohexane	7.67	56	11754	0.90	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	45045	3.97	ug/l	# 48
38) Carbon Tetrachloride	7.67	117	57647	4.79	ug/l	# 16
41) Methacrylonitrile	7.16	41	62	2.76	ug/l	# 10
43) Isopropyl Acetate	8.23	43	27626	0.73	ug/l	# 63
59) 2-Hexanone	10.76	43	614	5.28	ug/l	# 46
70) Styrene	11.97	104	174	0.93	ug/l	# 37
71) Bromoform	12.41	173	3850	0.65	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.41	83	369	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	176921	32.73	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	176921	103.81	ug/l	# 13
93) 1,2,4-Trichlorobenzene	14.91	180	718	3.21	ug/l	# 84
95) Naphthalene	15.14	128	1690	4.53	ug/l	# 80
96) 1,2,3-Trichlorobenzene	15.32	180	785	2.34	ug/l	# 82

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050025.D

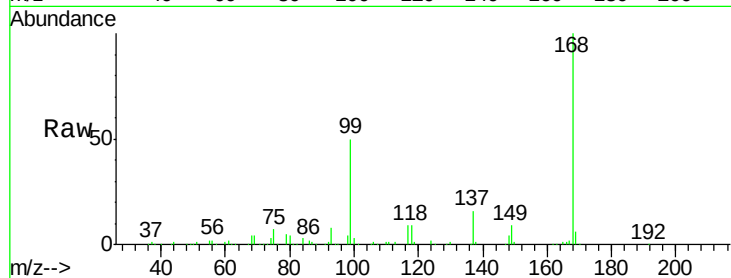
Acq: 24 Jul 2018 17:08

Tot Ion:168 Resp: 632698

Ion Ratio Lower Upper

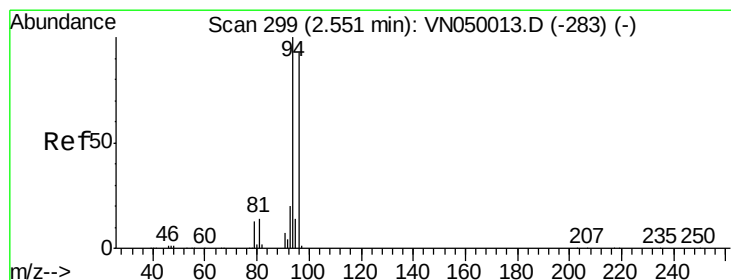
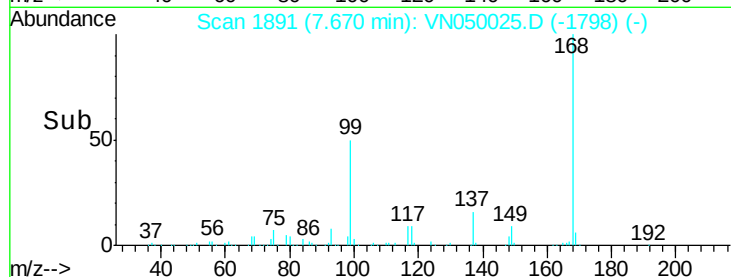
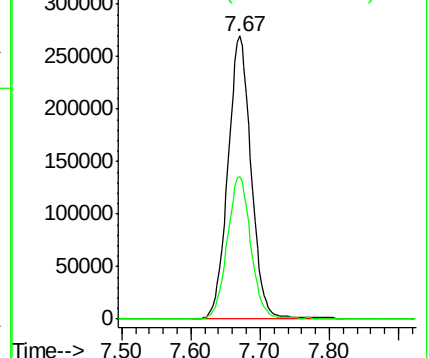
168 100

99 50.5 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050025.D

Ion 98.90 (98.60 to 99.60): VN050025.D



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 302

Delta R.T. 0.01 min

Lab File: VN050025.D

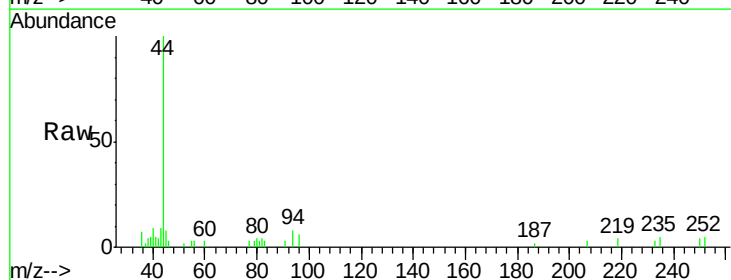
Acq: 24 Jul 2018 17:08

Tgt Ion: 94 Resp: 1115

Ion Ratio Lower Upper

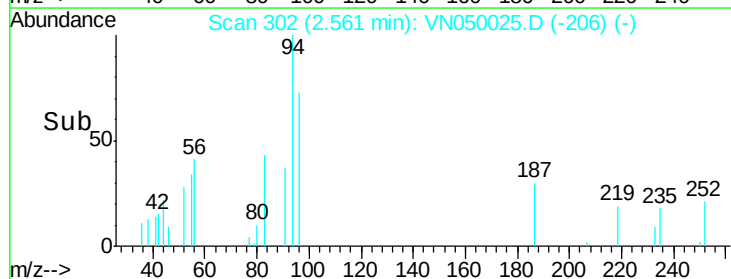
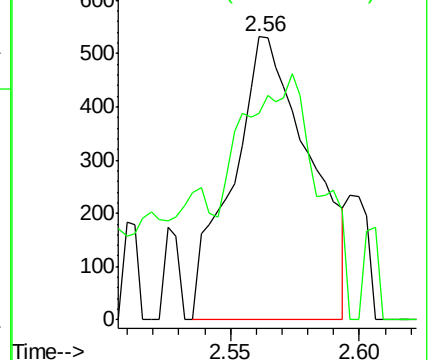
94 100

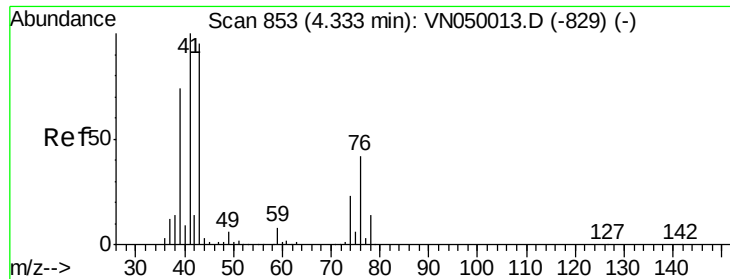
96 34.2 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VN050025.D

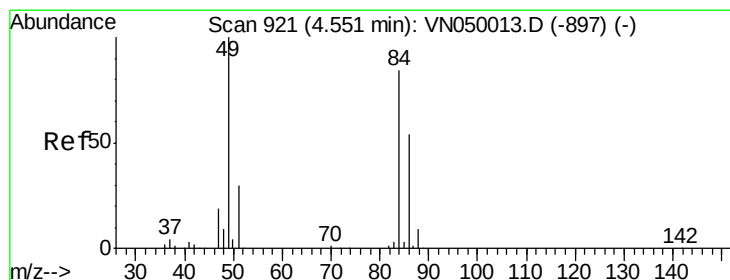
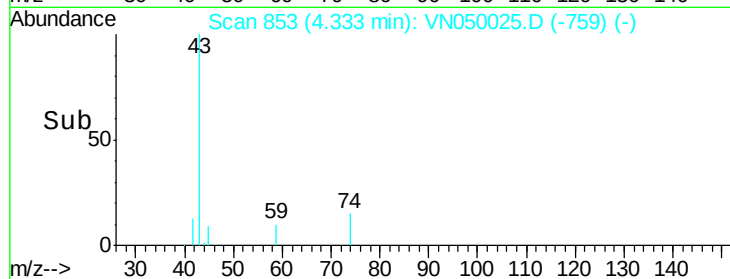
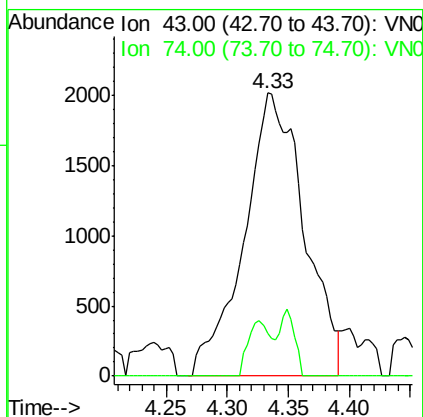
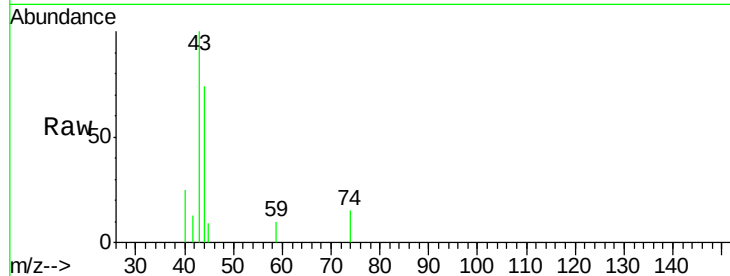
Ion 95.90 (95.60 to 96.60): VN050025.D





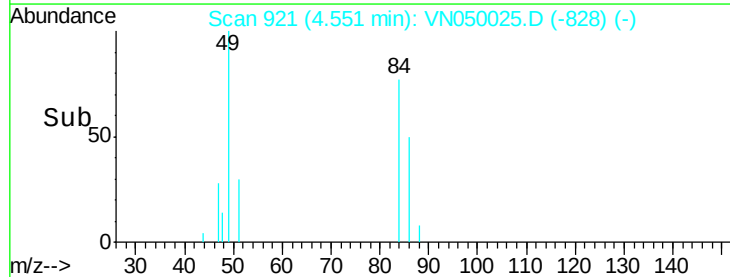
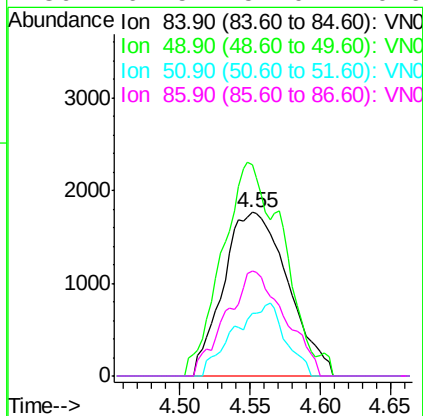
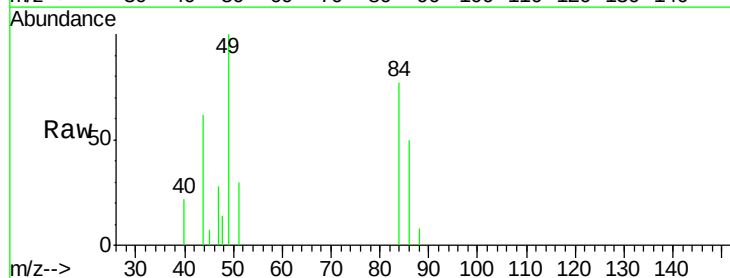
#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN050025.D
Acq: 24 Jul 2018 17:08

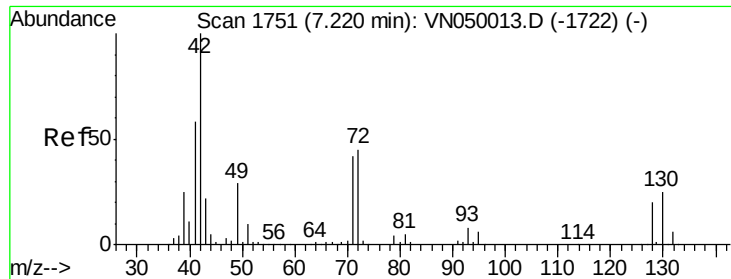
Tot Ion: 43 Resp: 6890
Ion Ratio Lower Upper
43 100
74 7.5 19.2 28.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050025.D
Acq: 24 Jul 2018 17:08

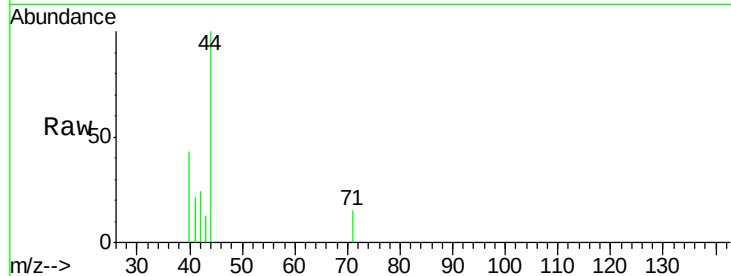
Tgt Ion: 84 Resp: 5640
Ion Ratio Lower Upper
84 100
49 129.3 94.8 142.2
51 38.4 28.3 42.5
86 64.5 51.0 76.6



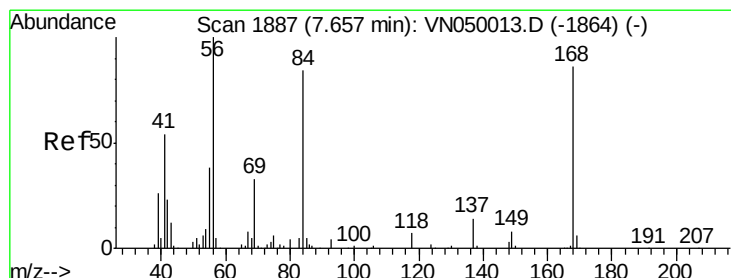
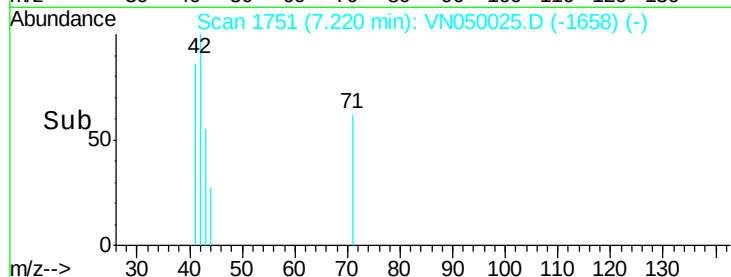
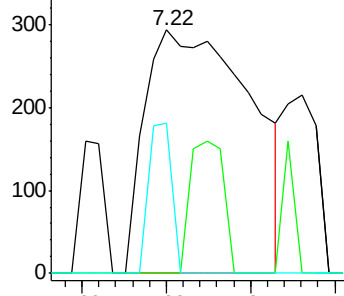


#29
Tetrahydrofuran
Concen: 0.23 ug/l
RT: 7.22 min Scan# 1751
Delta R.T. 0.00 min
Lab File: VN050025.D
Acq: 24 Jul 2018 17:08

Tot Ion: 42 Resp: 509
Ion Ratio Lower Upper
42 100
72 17.5 35.9 53.9#
71 13.6 33.7 50.5#

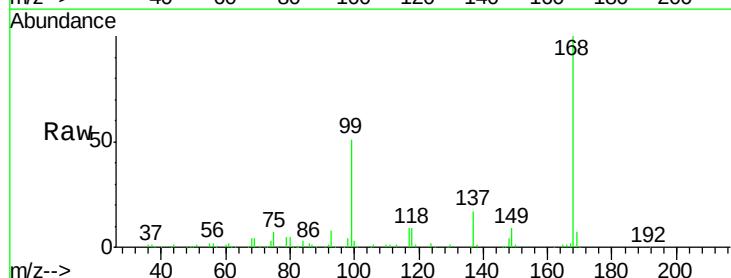


Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO

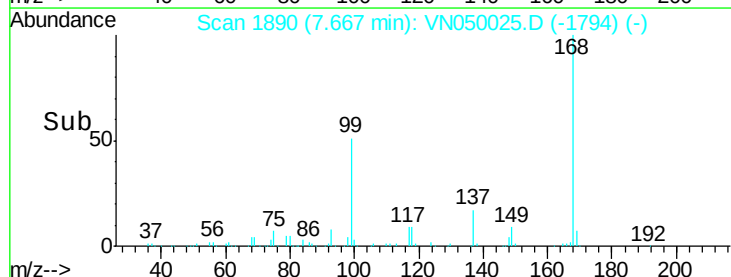
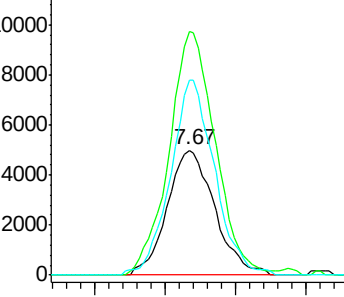


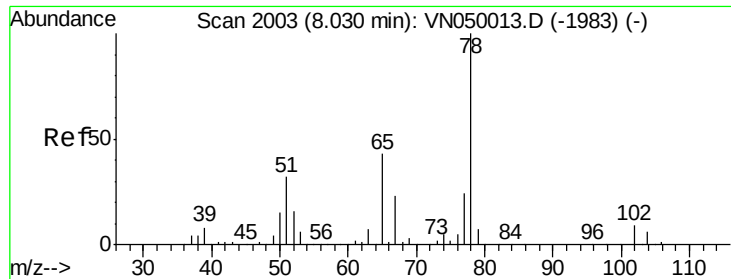
#31
Cyclohexane
Concen: 0.90 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050025.D
Acq: 24 Jul 2018 17:08

Tgt Ion: 56 Resp: 11754
Ion Ratio Lower Upper
56 100
69 194.8 26.2 39.4#
84 156.0 67.4 101.0#



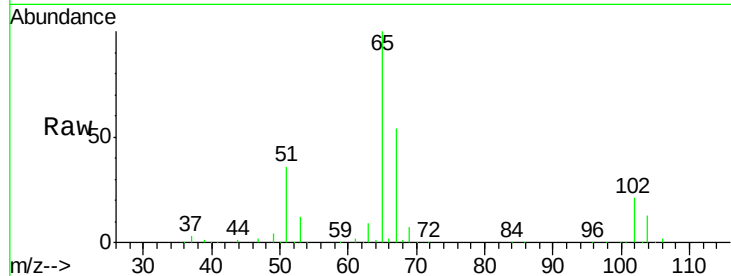
Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO



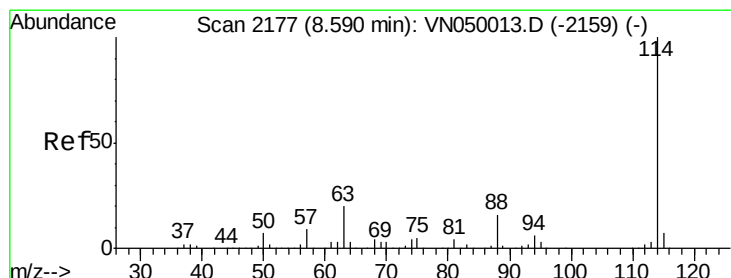
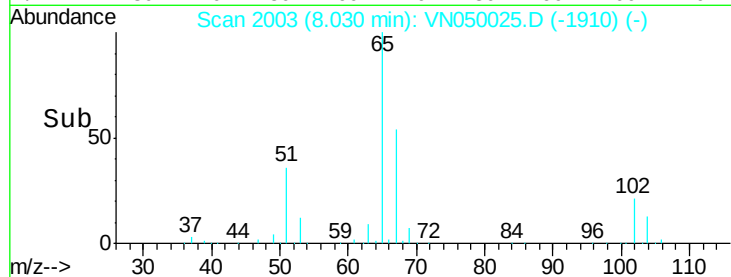
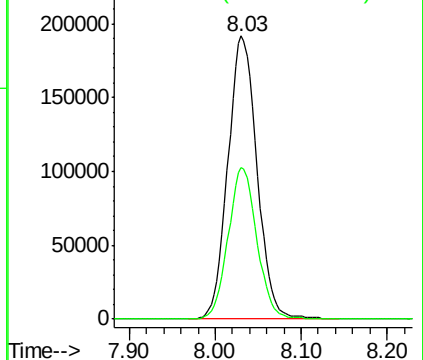


#33
 1,2-Dichloroethane-d4
 Concen: 51.18 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050025.D
 Acq: 24 Jul 2018 17:08

Tot Ion: 65 Resp: 451828
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 108.4

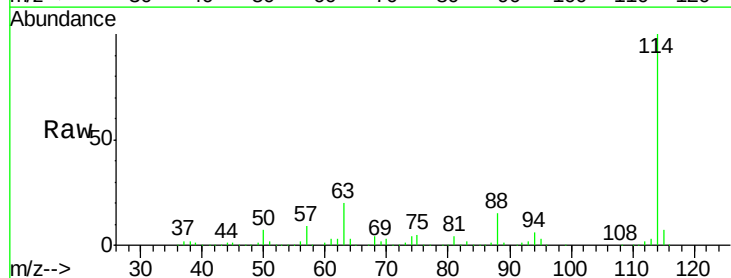


Abundance Ion 64.90 (64.60 to 65.60): VN050025.D (-1910) (-)
 Ion 66.90 (66.60 to 67.60): VN050025.D (-1910) (-)

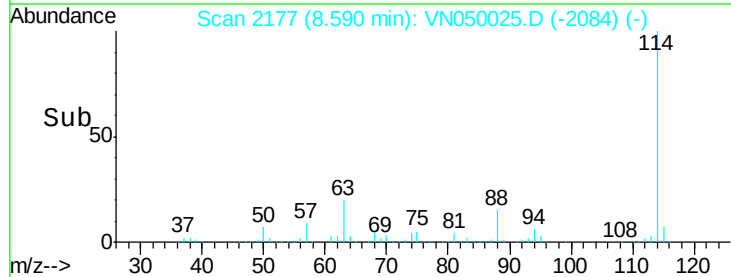
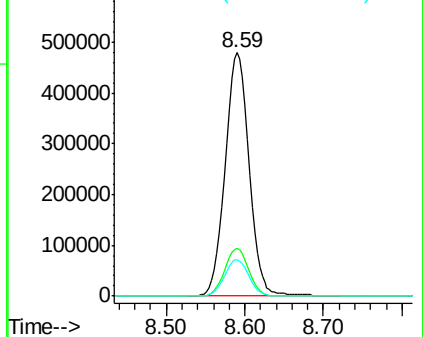


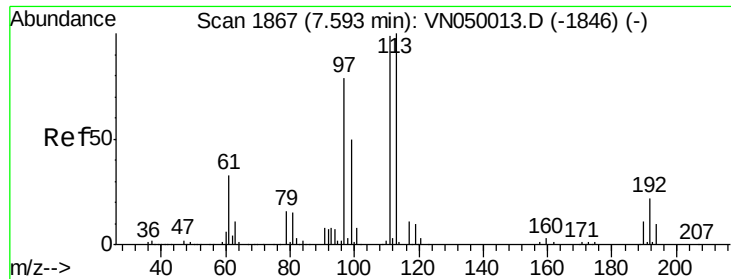
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050025.D
 Acq: 24 Jul 2018 17:08

Tgt Ion: 114 Resp: 1006637
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.0
 88 15.0 0.0 31.2



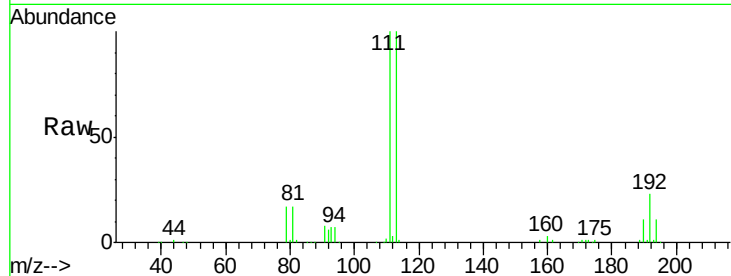
Abundance Ion 113.90 (113.60 to 114.60): VN050025.D (-2084) (-)
 Ion 63.00 (62.70 to 63.70): VN050025.D (-2084) (-)
 Ion 87.90 (87.60 to 88.60): VN050025.D (-2084) (-)



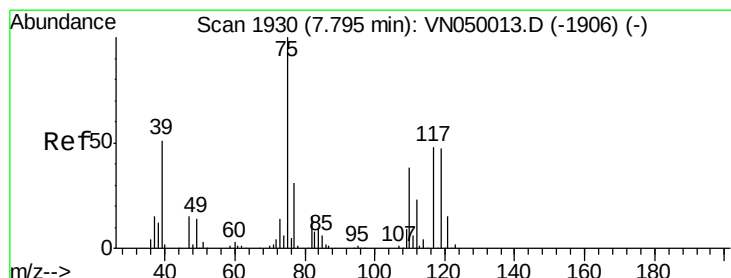
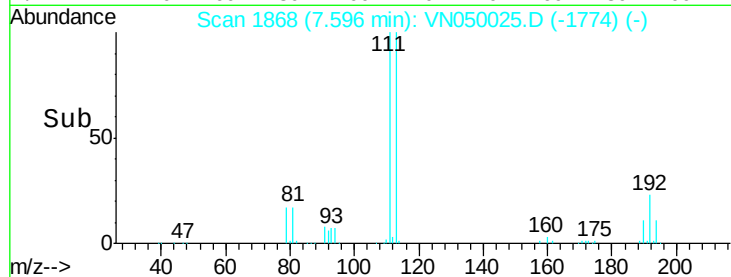
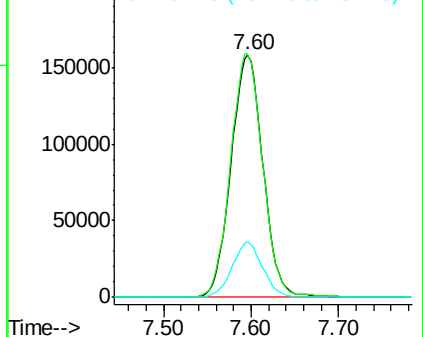


#35
 Dibromofluoromethane
 Concen: 48.68 ug/l
 RT: 7.60 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN050025.D
 Acq: 24 Jul 2018 17:08

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	80.7	121.1
192	21.8	17.8	26.6

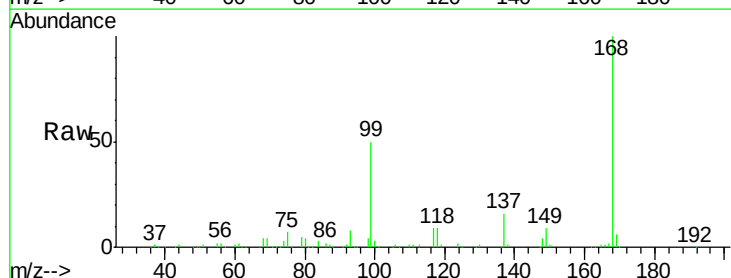


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

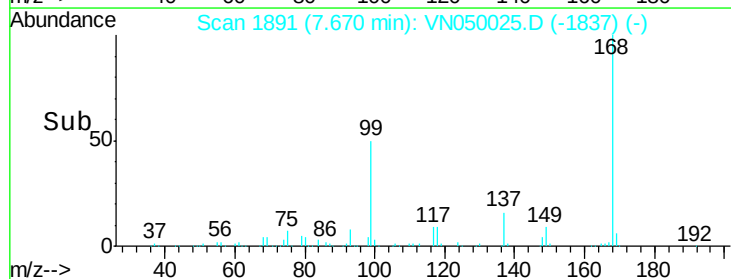
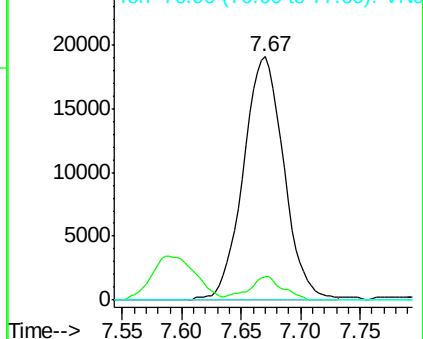


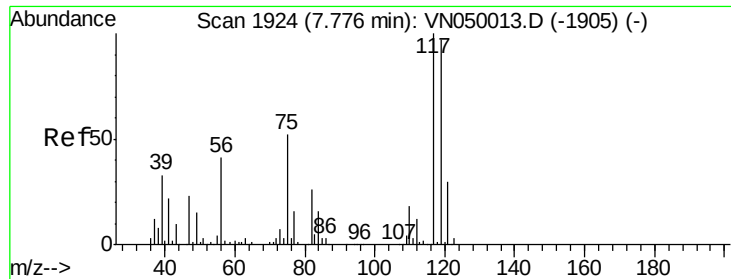
#36
 1,1-Dichloropropene
 Concen: 3.97 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.13 min
 Lab File: VN050025.D
 Acq: 24 Jul 2018 17:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.4	55.2#
77	0.0	25.3	37.9#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.79 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050025.D

Acq: 24 Jul 2018 17:08

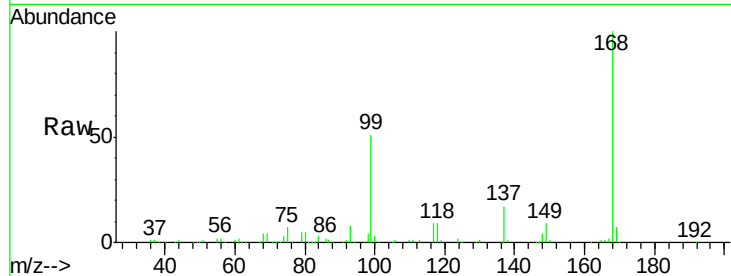
Tot Ion:117 Resp: 57647

Ion Ratio Lower Upper

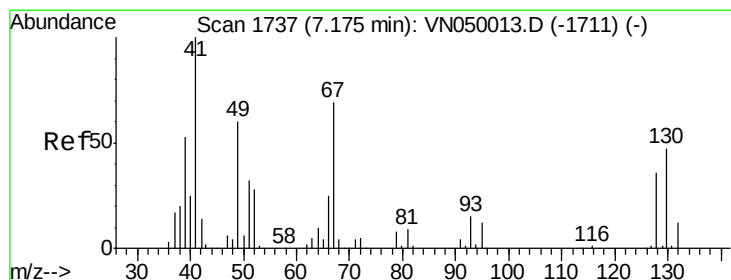
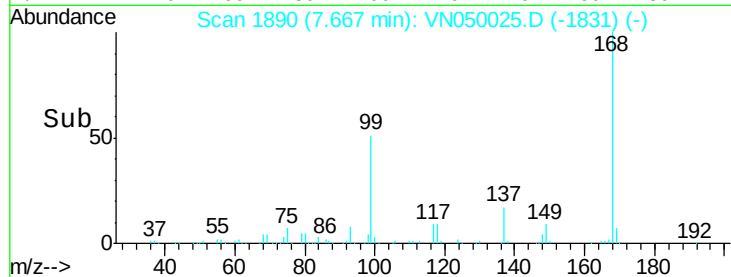
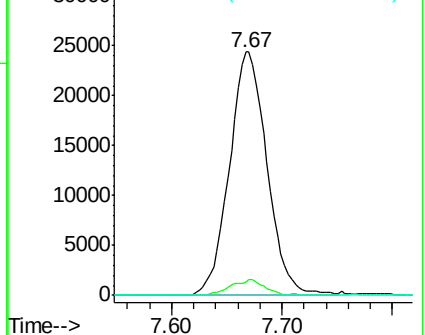
117 100

119 5.6 77.4 116.0#

121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 2.76 ug/l

RT: 7.16 min Scan# 1733

Delta R.T. -0.01 min

Lab File: VN050025.D

Acq: 24 Jul 2018 17:08

Tgt Ion: 41 Resp: 62

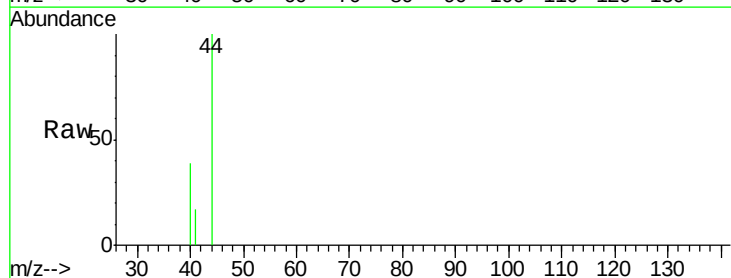
Ion Ratio Lower Upper

41 100

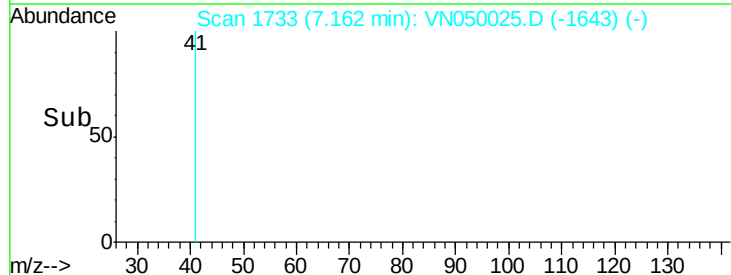
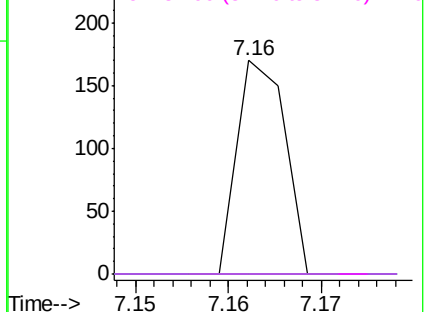
39 0.0 55.8 83.6#

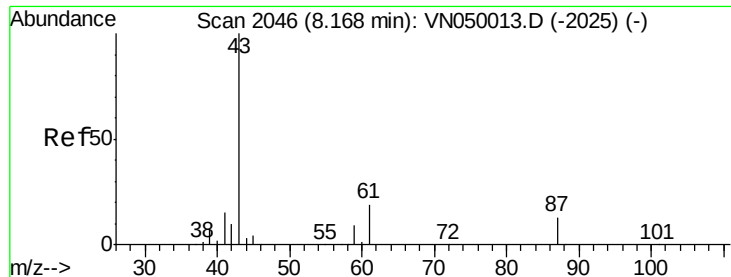
67 0.0 84.3 126.5#

52 0.0 34.2 51.2#



Abundance Ion 41.00 (40.70 to 41.70): V
Ion 39.00 (38.70 to 39.70): V
Ion 67.00 (66.70 to 67.70): V
Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 0.73 ug/l

RT: 8.23 min Scan# 2066

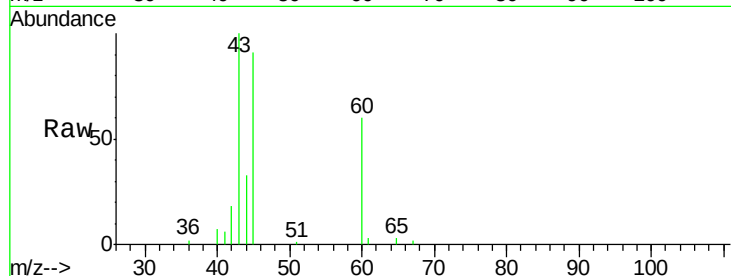
Delta R.T. 0.06 min

Lab File: VN050025.D

Acq: 24 Jul 2018 17:08

Tot Ion: 43 Resp: 27626

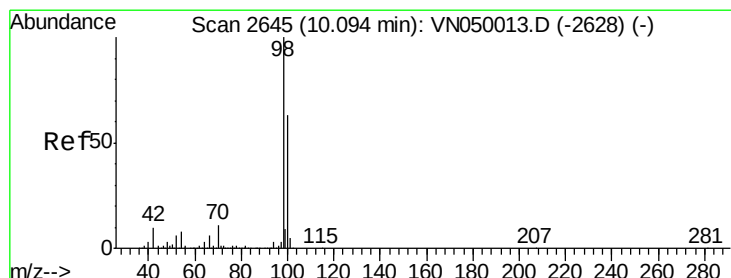
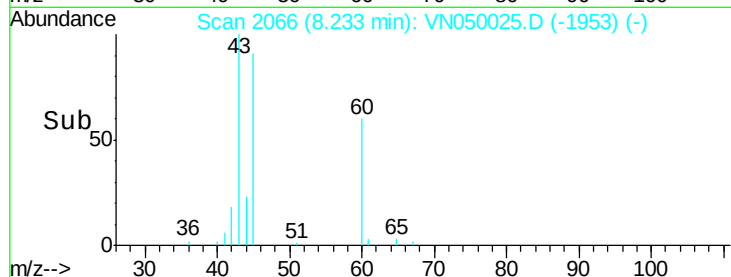
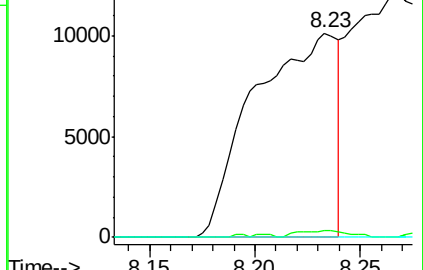
Ion	Ratio	Lower	Upper
43	100		
61	1.2	15.8	23.6#
87	0.0	10.3	15.5#



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



#50

Toluene-d8

Concen: 45.72 ug/l

RT: 10.09 min Scan# 2645

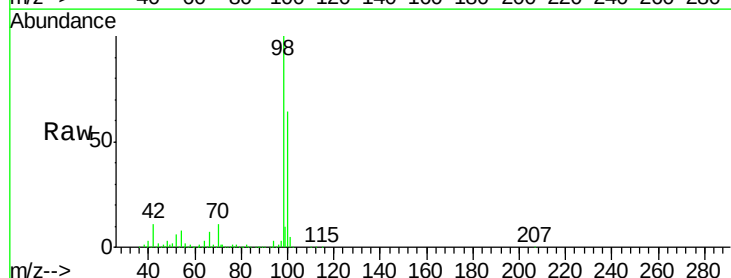
Delta R.T. 0.00 min

Lab File: VN050025.D

Acq: 24 Jul 2018 17:08

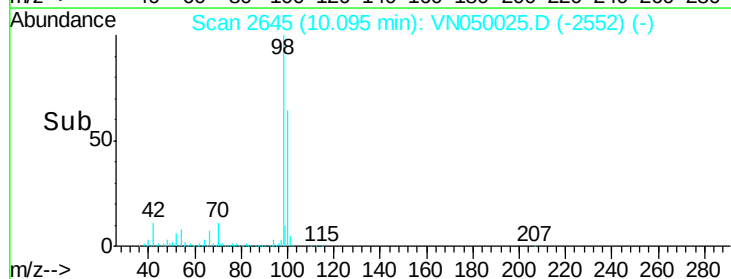
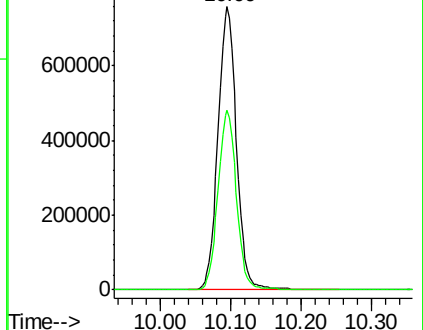
Tgt Ion: 98 Resp: 1381506

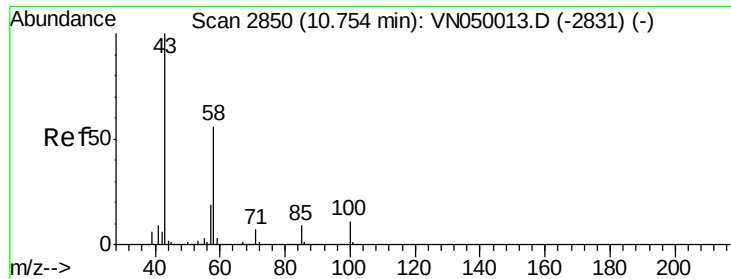
Ion	Ratio	Lower	Upper
98	100		
100	63.3	50.7	76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

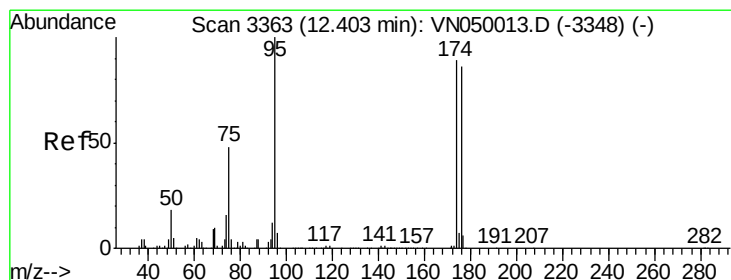
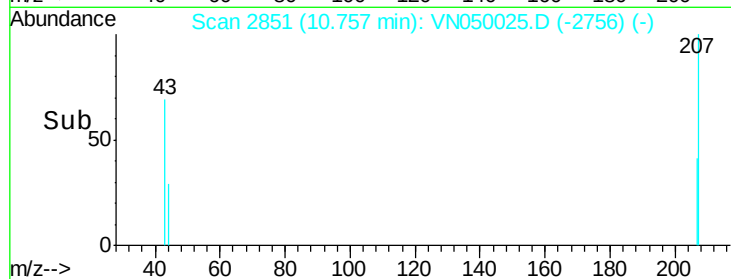
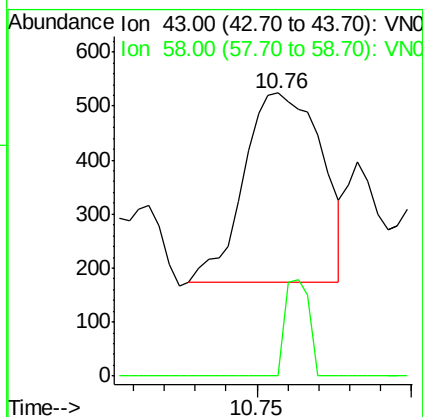
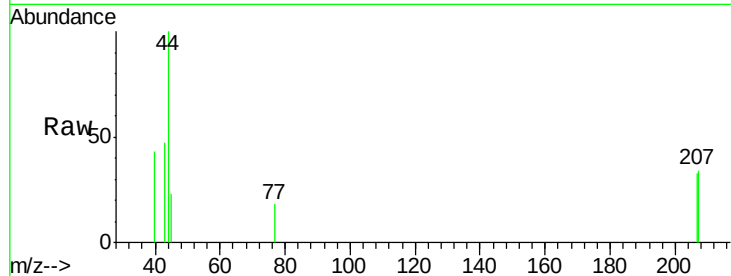
Ion 100.00 (99.70 to 100.70): VN0





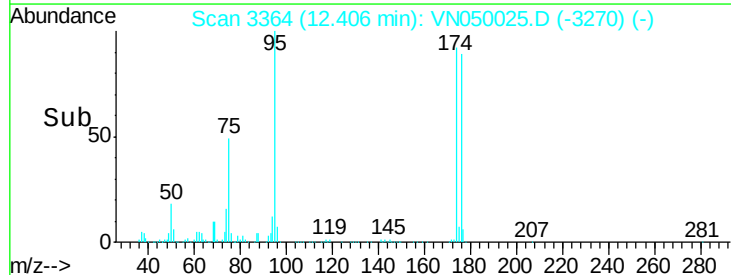
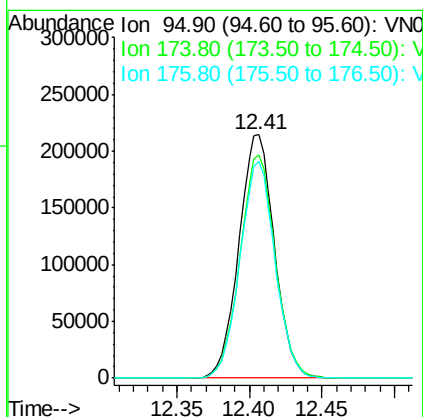
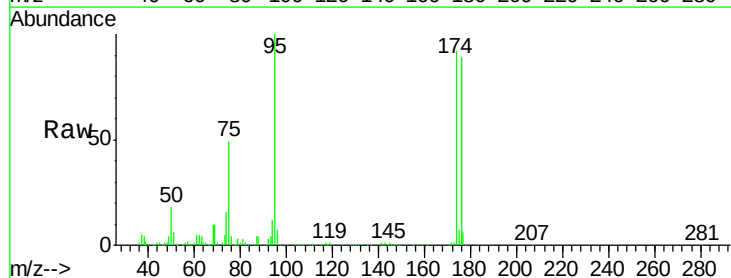
#59
2-Hexanone
Concen: 5.28 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. 0.00 min
Lab File: VN050025.D
Acq: 24 Jul 2018 17:08

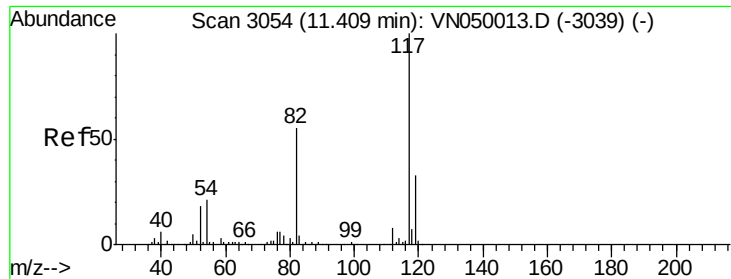
Tot Ion: 43 Resp: 614
Ion Ratio Lower Upper
43 100
58 15.8 27.6 82.7#



#62
4-Bromofluorobenzene
Concen: 36.63 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN050025.D
Acq: 24 Jul 2018 17:08

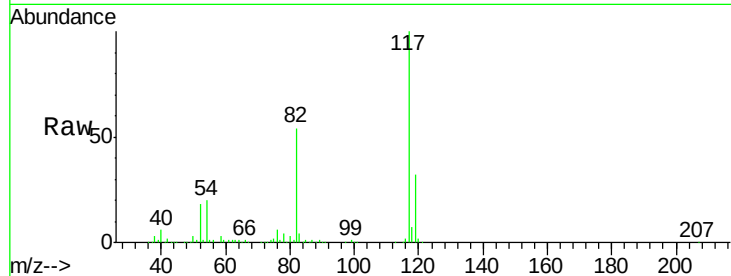
Tgt Ion: 95 Resp: 364496
Ion Ratio Lower Upper
95 100
174 91.1 0.0 178.2
176 87.9 0.0 173.4



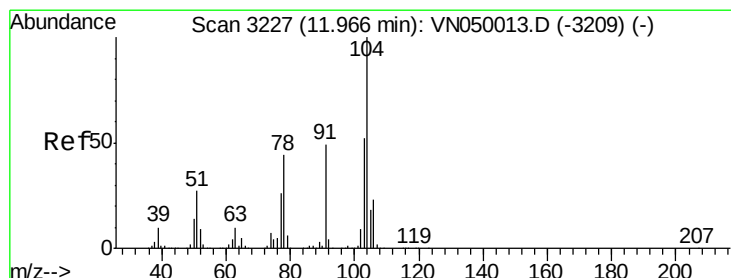
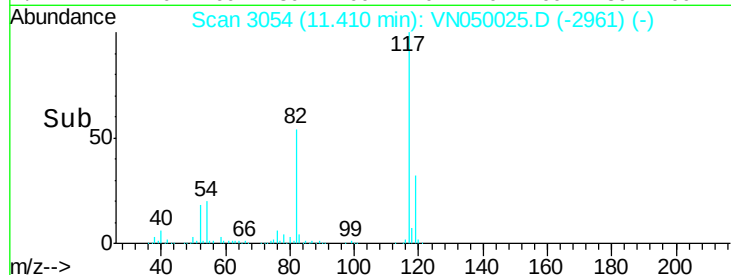
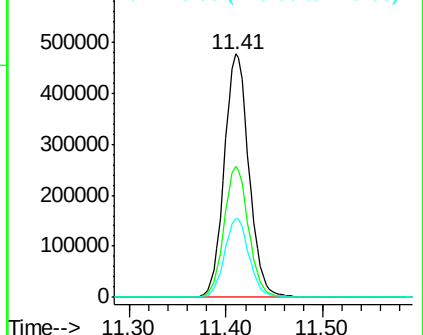


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050025.D
Acq: 24 Jul 2018 17:08

Tot Ion:117 Resp: 844328
Ion Ratio Lower Upper
117 100
82 53.8 43.7 65.5
119 32.4 26.1 39.1

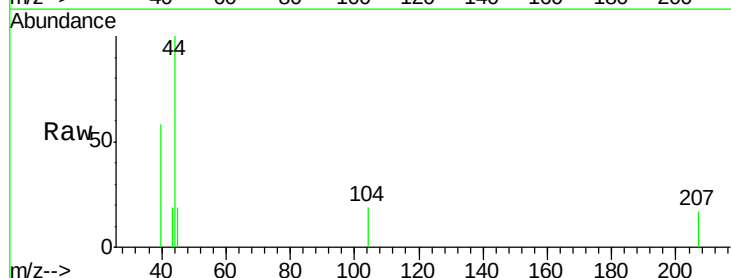


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VNO
Ion 118.90 (118.60 to 119.60): V

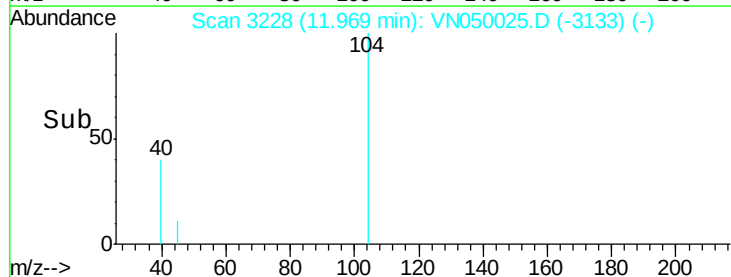
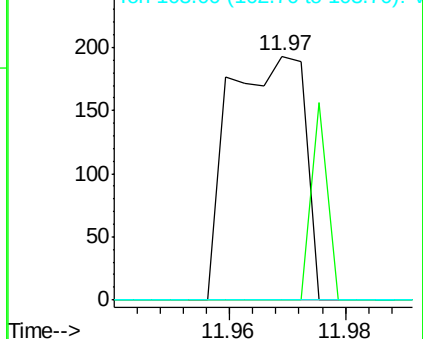


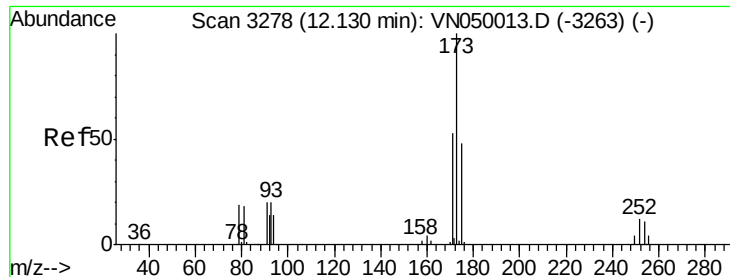
#70
Styrene
Concen: 0.93 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.00 min
Lab File: VN050025.D
Acq: 24 Jul 2018 17:08

Tgt Ion:104 Resp: 174
Ion Ratio Lower Upper
104 100
78 17.2 39.3 58.9#
103 0.0 45.0 67.6#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VNO
Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.65 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050025.D

Acq: 24 Jul 2018 17:08

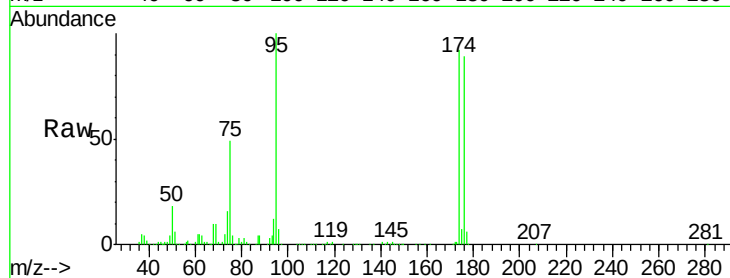
Tot Ion:173 Resp: 3850

Ion Ratio Lower Upper

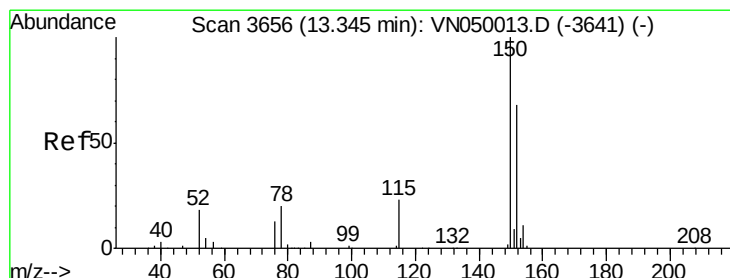
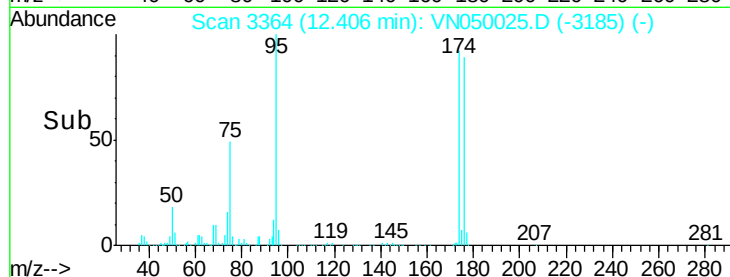
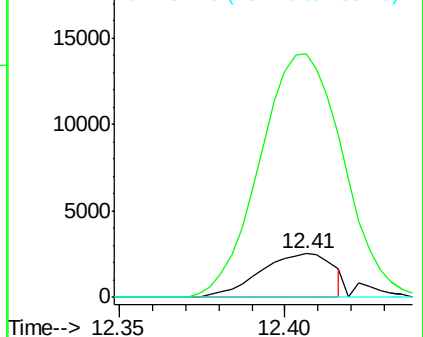
173 100

175 555.5 24.1 72.2#

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: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN050025.D

Acq: 24 Jul 2018 17:08

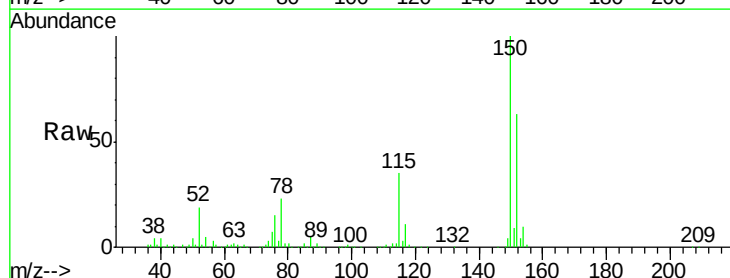
Tgt Ion:152 Resp: 290872

Ion Ratio Lower Upper

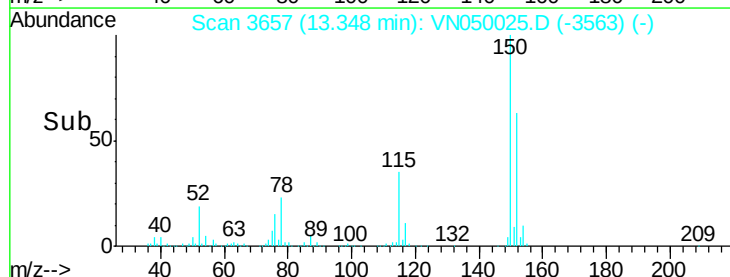
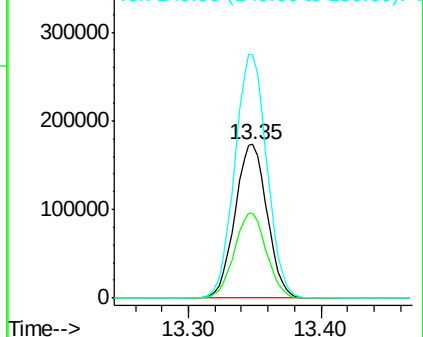
152 100

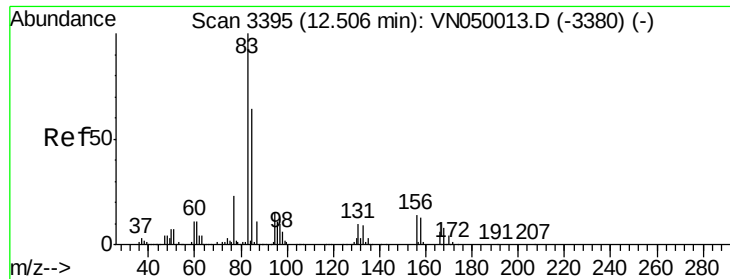
115 55.8 27.8 83.3

150 158.5 0.0 348.6



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





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

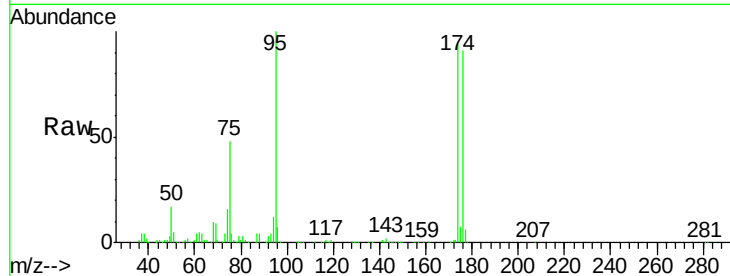
RT: 12.41 min Scan# 3366

Delta R.T. -0.09 min

Lab File: VN050025.D

Acq: 24 Jul 2018 17:08

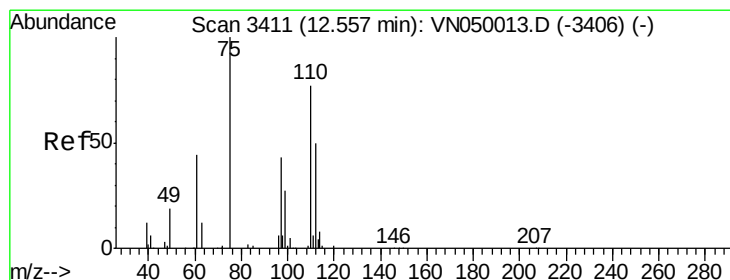
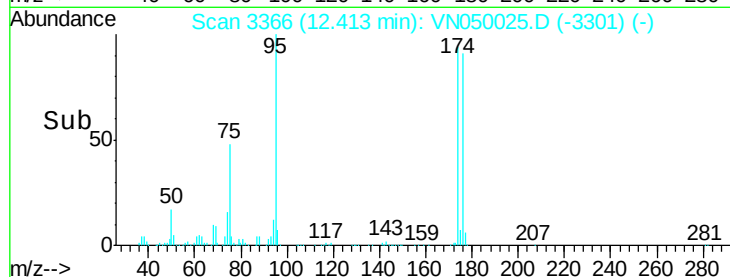
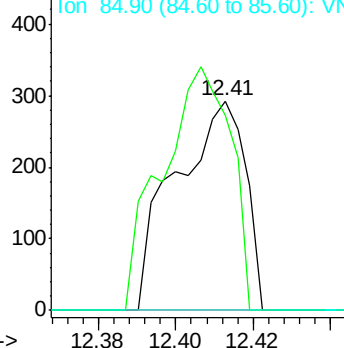
Tot Ion	83	Resp	369
Ion	Ratio	Lower	Upper
83	100		
131	114.1	5.1	15.3#
85	0.0	32.3	96.8#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 32.73 ug/l

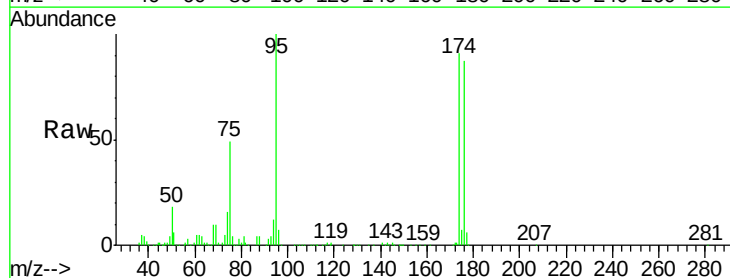
RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050025.D

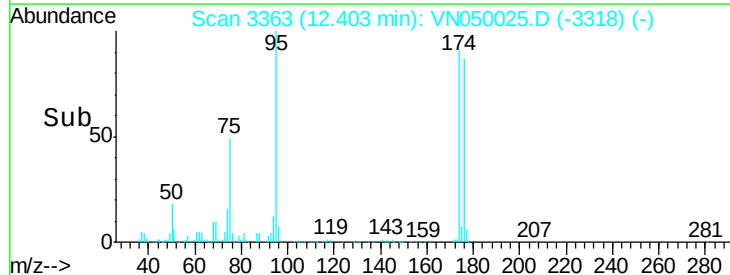
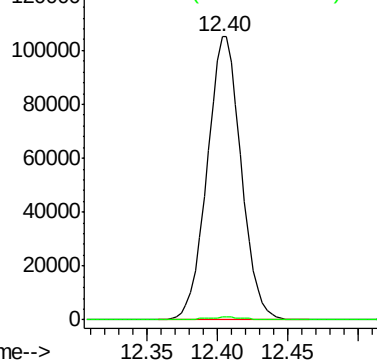
Acq: 24 Jul 2018 17:08

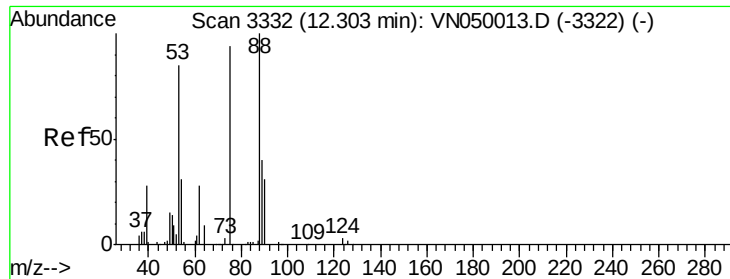
Tgt Ion	75	Resp	176921
Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 103.81 ug/l

RT: 12.40 min Scan# 3363

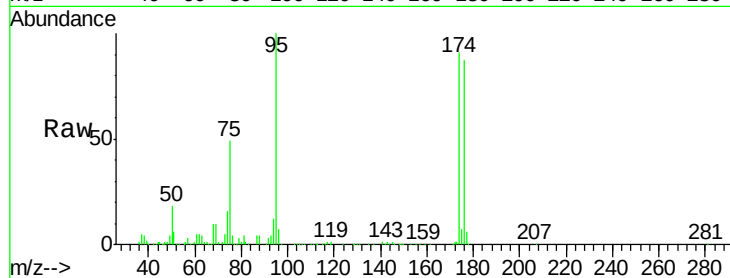
Delta R.T. 0.10 min

Lab File: VN050025.D

Acq: 24 Jul 2018 17:08

Tot Ion: 75 Resp: 176921

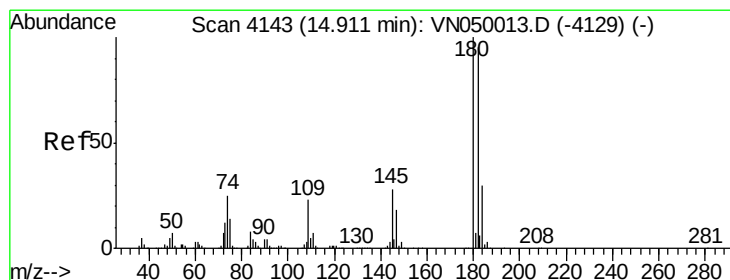
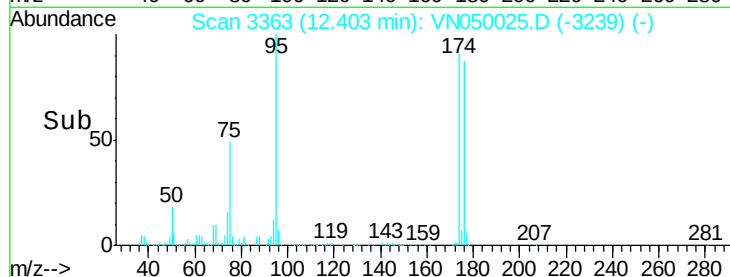
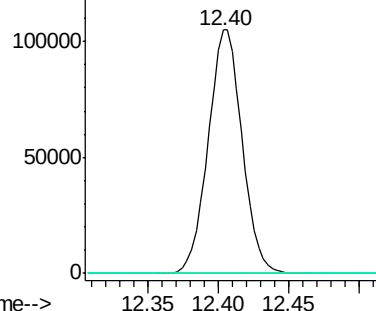
Ion	Ratio	Lower	Upper
75	100		
53	0.2	73.5	110.3#
89	0.0	36.0	54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 3.21 ug/l

RT: 14.91 min Scan# 4143

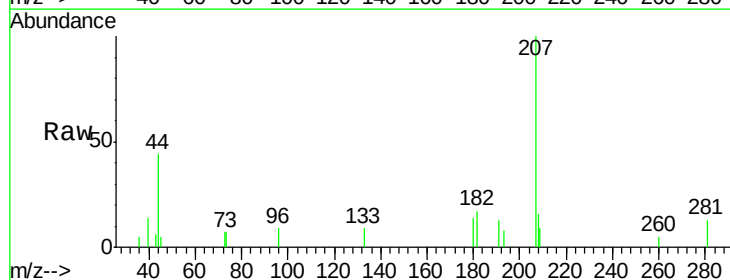
Delta R.T. 0.00 min

Lab File: VN050025.D

Acq: 24 Jul 2018 17:08

Tgt Ion: 180 Resp: 718

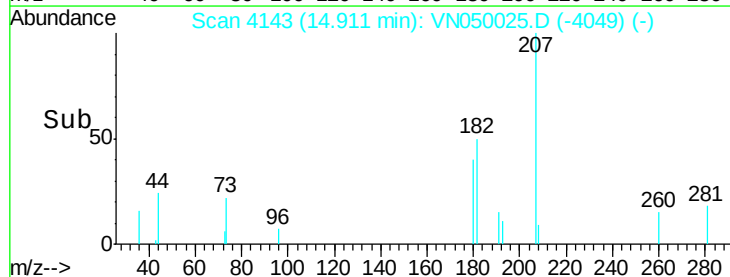
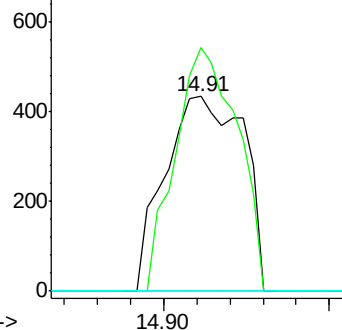
Ion	Ratio	Lower	Upper
180	100		
182	98.7	46.7	140.1
145	0.0	13.8	41.4#

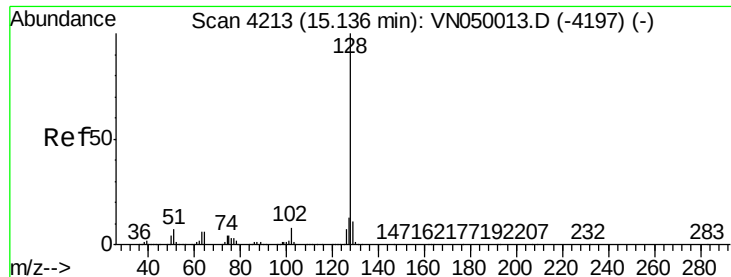


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 4.53 ug/l

RT: 15.14 min Scan# 4214

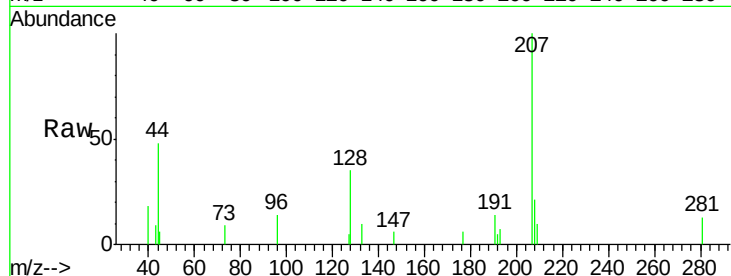
Delta R.T. 0.00 min

Lab File: VN050025.D

Acq: 24 Jul 2018 17:08

Tot Ion:128 Resp: 1690

Ion	Ratio	Lower	Upper
128	100		
127	8.1	10.4	15.6#
129	0.0	8.8	13.2#

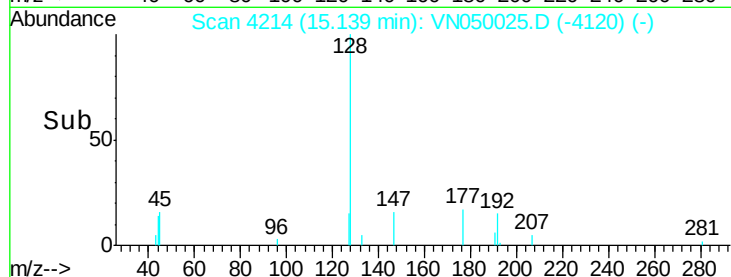


Abundance Ion 128.00 (127.70 to 128.70): V

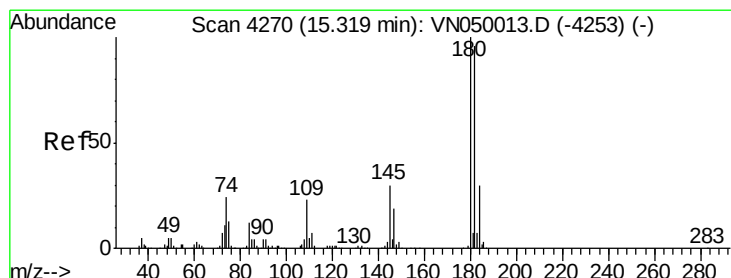
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

15.14



Time-->



#96

1,2,3-Trichlorobenzene

Concen: 2.34 ug/l

RT: 15.32 min Scan# 4270

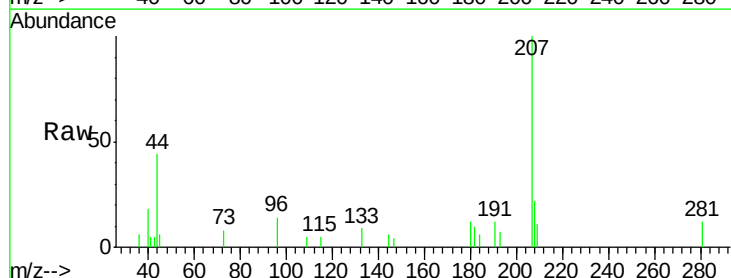
Delta R.T. 0.00 min

Lab File: VN050025.D

Acq: 24 Jul 2018 17:08

Tgt Ion:180 Resp: 785

Ion	Ratio	Lower	Upper
180	100		
182	81.8	48.1	144.4
145	14.3	15.3	45.9#

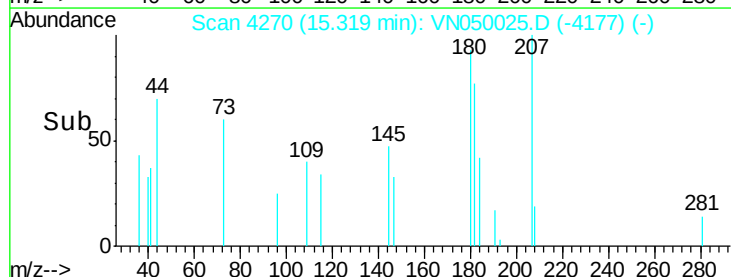


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

15.32



Time-->