

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072418\
 Data File : VN050024.D
 Acq On : 24 Jul 2018 16:43
 Operator : MD\SY
 Sample : J4111-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 25 00:49:23 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	633336	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1018096	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	834562	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	299088	50.00	ug/l	0.00

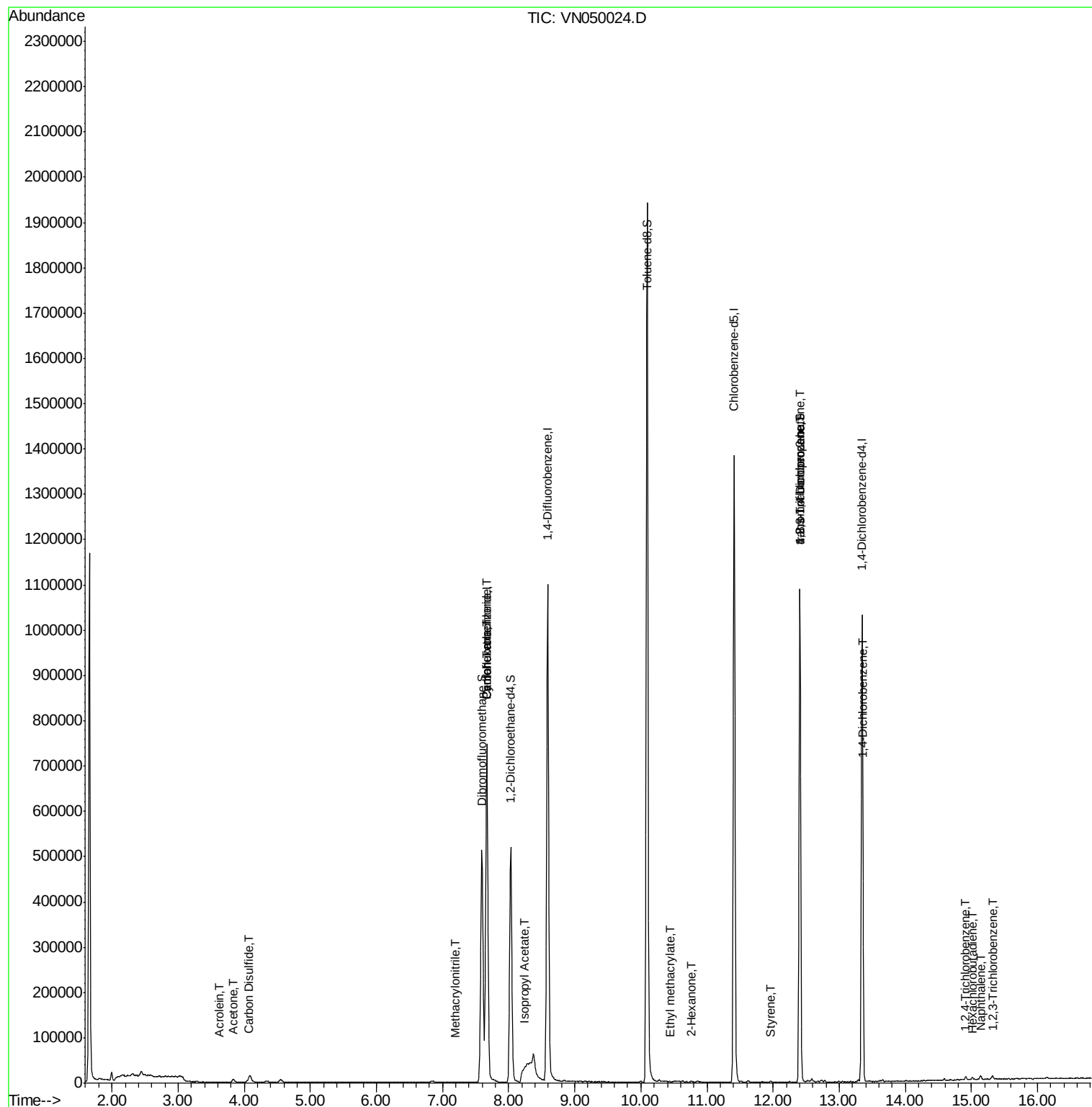
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	449387	50.86	ug/l	0.00
Spiked Amount			Recovery	=	101.72%	
35) Dibromofluoromethane	7.60	113	397064	47.77	ug/l	0.00
Spiked Amount			Recovery	=	95.54%	
50) Toluene-d8	10.09	98	1394432	45.63	ug/l	0.00
Spiked Amount			Recovery	=	91.26%	
62) 4-Bromofluorobenzene	12.41	95	366251	36.40	ug/l	0.00
Spiked Amount			Recovery	=	72.80%	

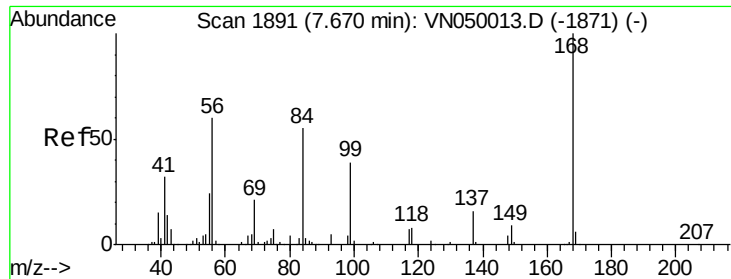
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	227	Below Cal	#	3
13) Acrolein	3.61	56	134	0.26	ug/l	15
16) Acetone	3.83	43	11332	1.12	ug/l	92
17) Carbon Disulfide	4.05	76	6094	0.27	ug/l	75
18) Methyl Acetate	4.33	43	2520	Below Cal	#	51
20) Methylene Chloride	4.55	84	5085	Below Cal		91
31) Cyclohexane	7.66	56	11305	0.86	ug/l	1
38) Carbon Tetrachloride	7.67	117	58242	4.79	ug/l	16
41) Methacrylonitrile	7.19	41	101	2.77	ug/l	10
43) Isopropyl Acetate	8.23	43	26448	0.63	ug/l	61
56) Ethyl methacrylate	10.44	69	237	2.05	ug/l	64
59) 2-Hexanone	10.77	43	1238	5.38	ug/l	86
70) Styrene	11.97	104	1120	0.97	ug/l	84
75) 1,1,2,2-Tetrachloroethane	12.51	83	440	Below Cal	#	42
76) 1,2,3-Trichloropropane	12.40	75	179609	32.31	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	179609	102.49	ug/l	13
88) 1,4-Dichlorobenzene	13.37	146	2740	0.26	ug/l	1
92) 1,2-Dibromo-3-Chloropropan	14.27	75	145	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	2622	3.51	ug/l	89
94) Hexachlorobutadiene	15.02	225	798	0.24	ug/l	90
95) Naphthalene	15.13	128	7626	4.92	ug/l	95
96) 1,2,3-Trichlorobenzene	15.32	180	3148	2.74	ug/l	92

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050024.D

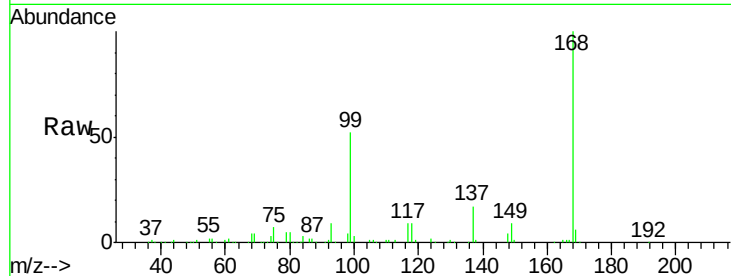
Acq: 24 Jul 2018 16:43

Tot Ion:168 Resp: 633336

Ion Ratio Lower Upper

168 100

99 52.1 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

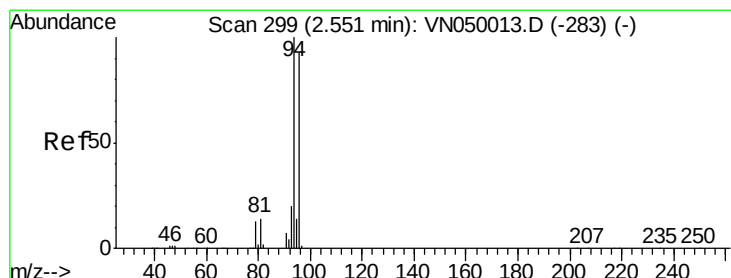
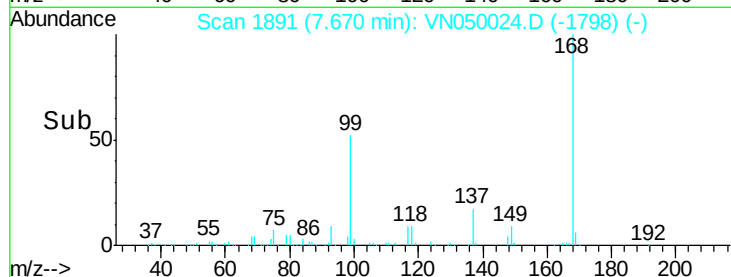
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 295

Delta R.T. -0.01 min

Lab File: VN050024.D

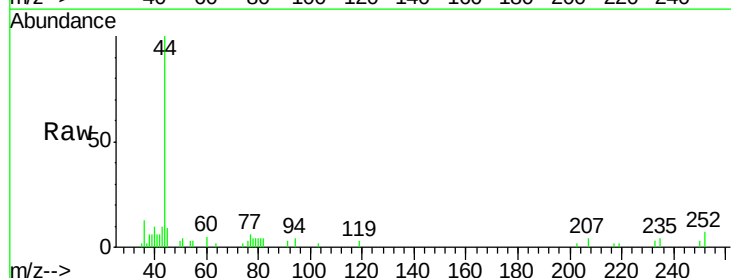
Acq: 24 Jul 2018 16:43

Tgt Ion: 94 Resp: 227

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.54

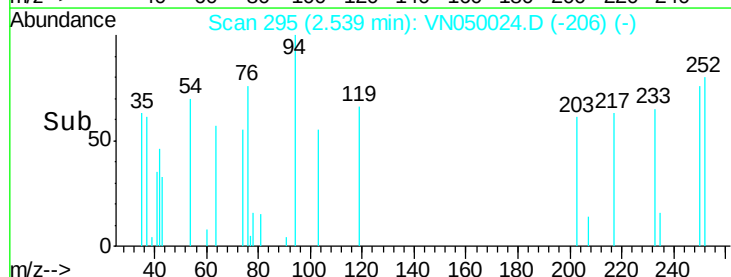
300

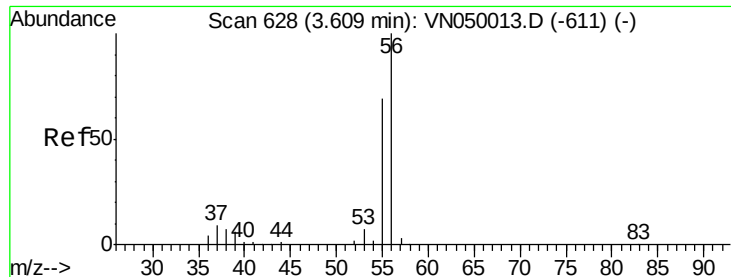
200

100

0

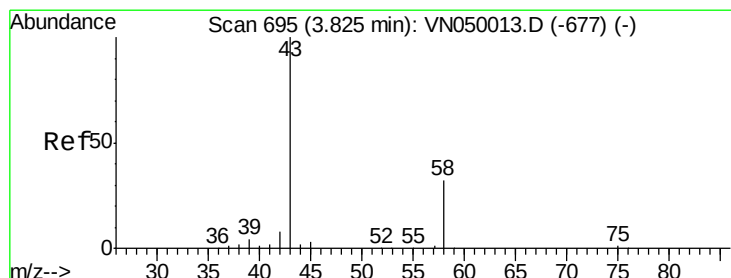
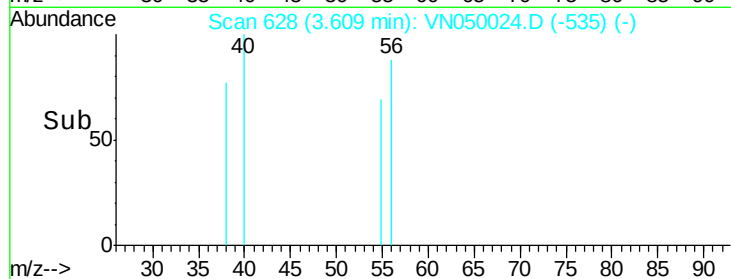
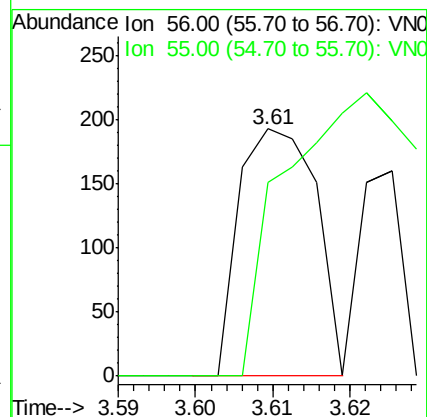
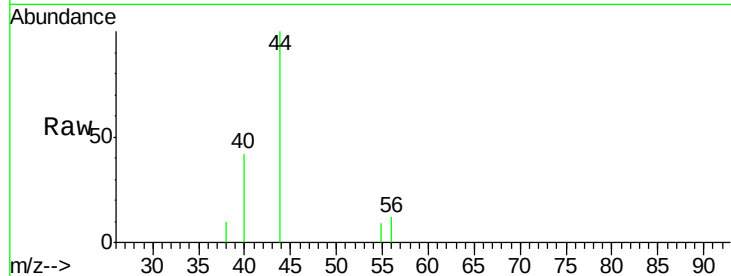
Time-->





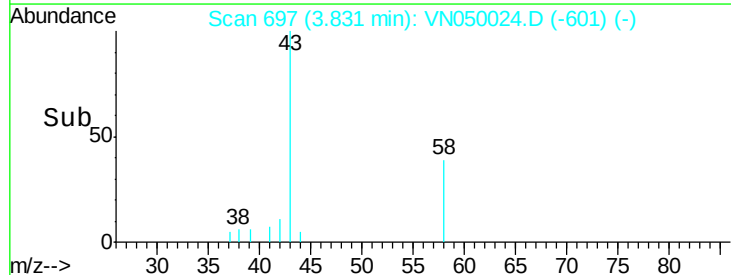
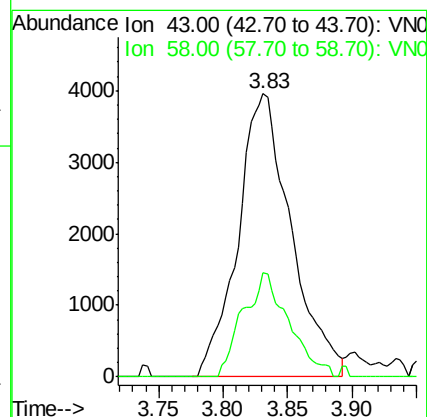
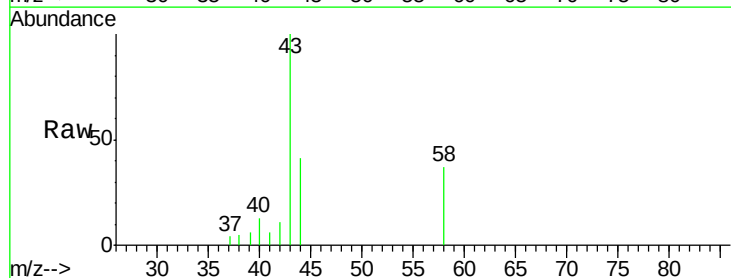
#13
Acrolein
Concen: 0.26 ug/l
RT: 3.61 min Scan# 628
Delta R.T. 0.00 min
Lab File: VN050024.D
Acq: 24 Jul 2018 16:43

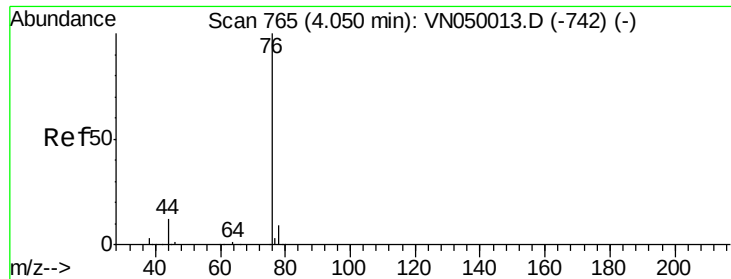
Tot Ion: 56 Resp: 134
Ion Ratio Lower Upper
56 100
55 0.0 55.8 83.6#



#16
Acetone
Concen: 1.12 ug/l
RT: 3.83 min Scan# 697
Delta R.T. 0.01 min
Lab File: VN050024.D
Acq: 24 Jul 2018 16:43

Tgt Ion: 43 Resp: 11332
Ion Ratio Lower Upper
43 100
58 36.6 25.8 38.8





#17

Carbon Disulfide

Concen: 0.27 ua/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050024.D

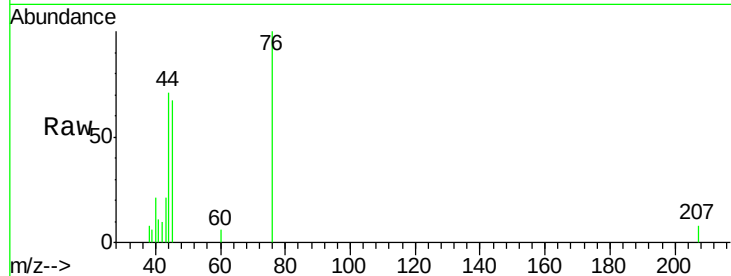
Acq: 24 Jul 2018 16:43

Tot Ion: 76 Resp: 6094

Ion Ratio Lower Upper

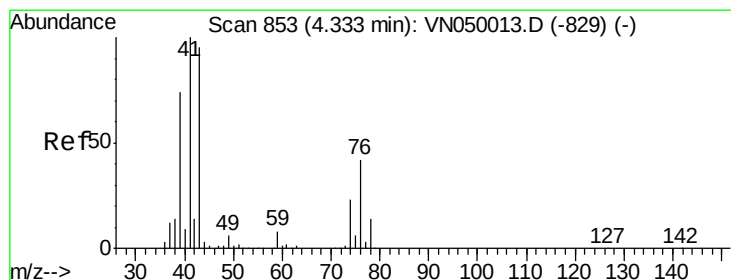
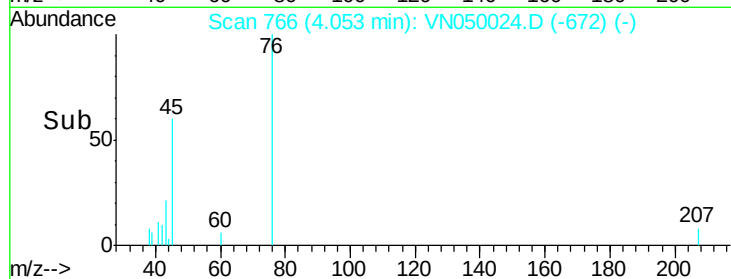
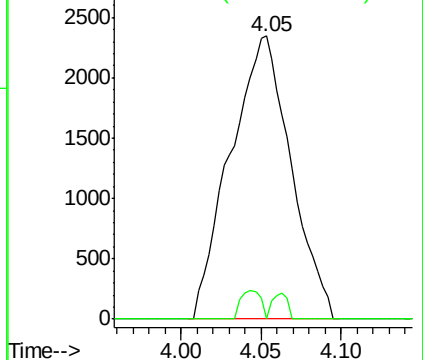
76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 852

Delta R.T. -0.00 min

Lab File: VN050024.D

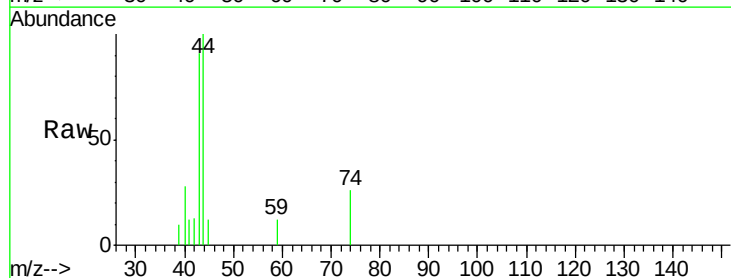
Acq: 24 Jul 2018 16:43

Tgt Ion: 43 Resp: 2520

Ion Ratio Lower Upper

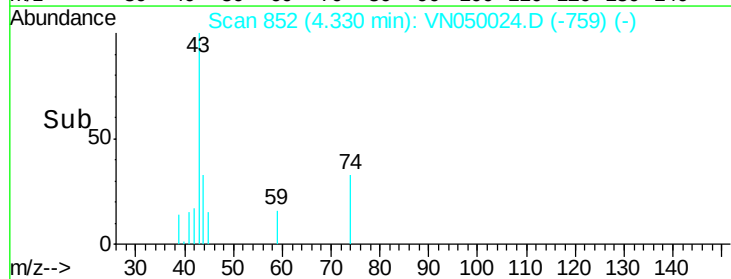
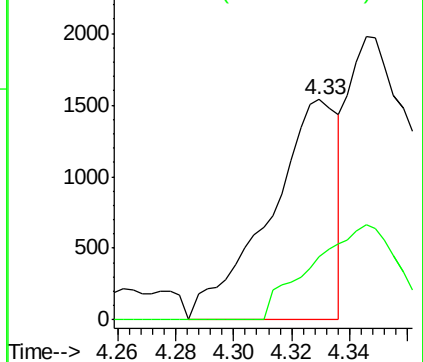
43 100

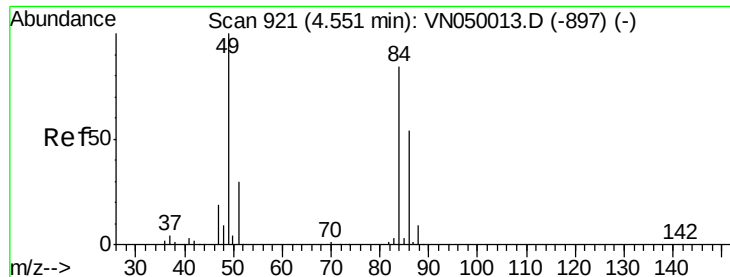
74 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

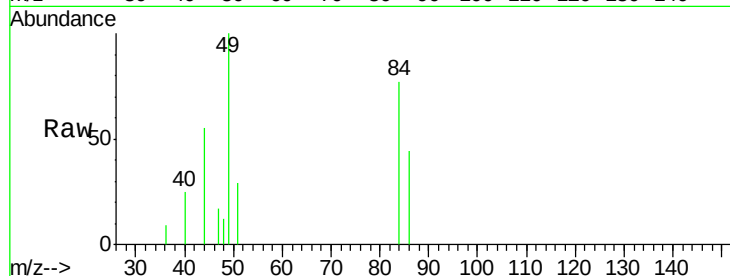
Ion 74.00 (73.70 to 74.70): VN0



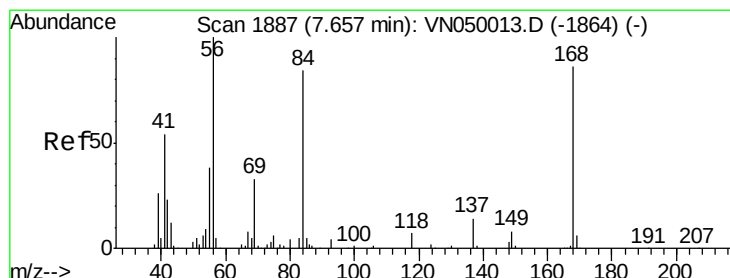
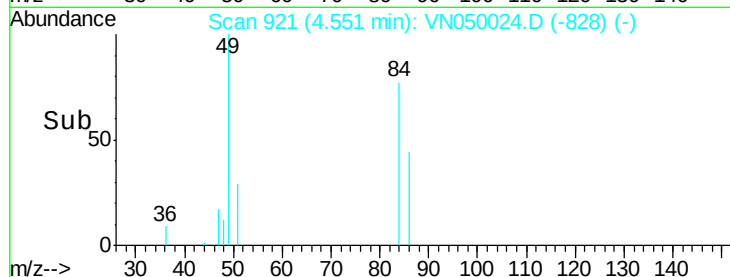
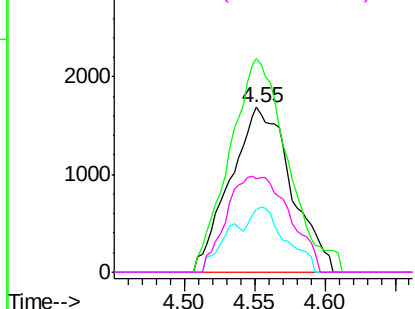


#20
Methvlene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050024.D
Acq: 24 Jul 2018 16:43

Tot Ion:	84	Resp:	5085
Ion	Ratio	Lower	Upper
84	100		
49	129.8	94.8	142.2
51	37.8	28.3	42.5
86	56.8	51.0	76.6

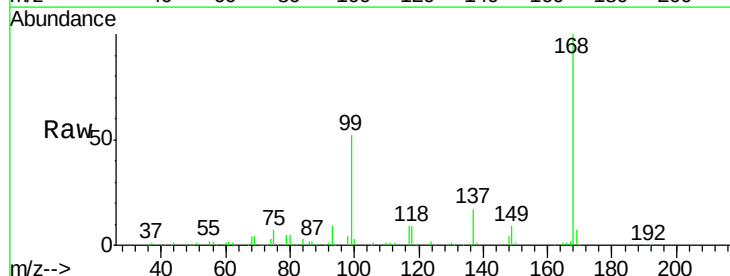


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

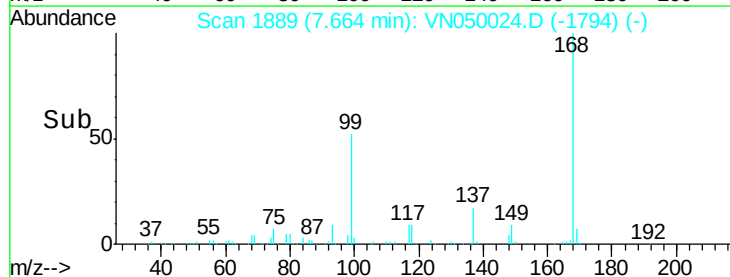
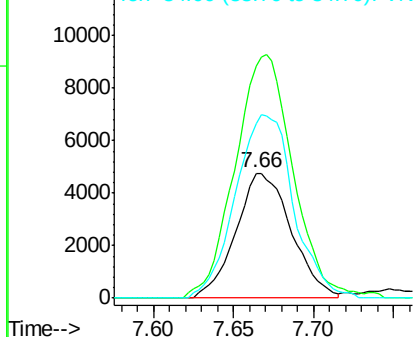


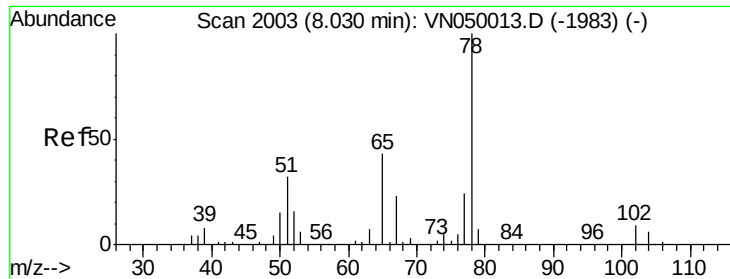
#31
Cyclohexane
Concen: 0.86 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN050024.D
Acq: 24 Jul 2018 16:43

Tgt Ion:	56	Resp:	11305
Ion	Ratio	Lower	Upper
56	100		
69	180.8	26.2	39.4#
84	140.0	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: 50.86 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050024.D

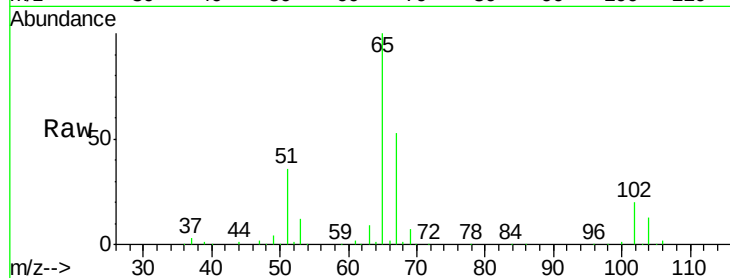
Acq: 24 Jul 2018 16:43

Tot Ion: 65 Resp: 449387

Ion Ratio Lower Upper

65 100

67 53.7 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

200000

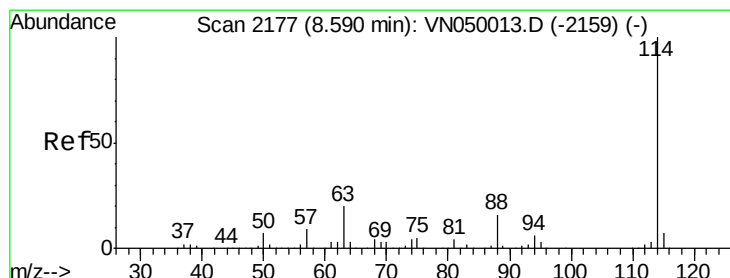
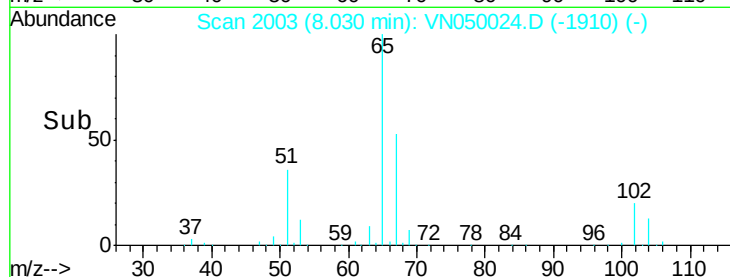
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050024.D

Acq: 24 Jul 2018 16:43

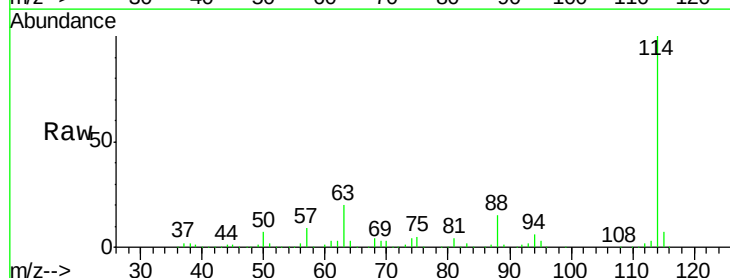
Tgt Ion: 114 Resp: 1018096

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.0

88 15.3 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.59

600000

500000

400000

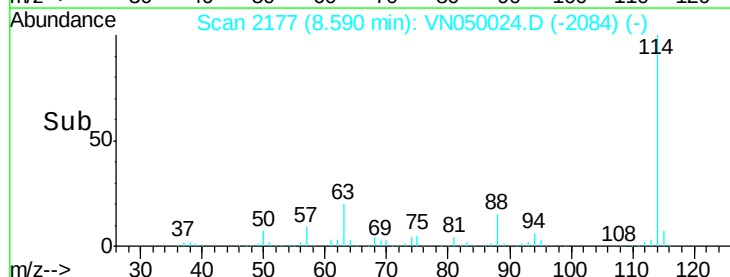
300000

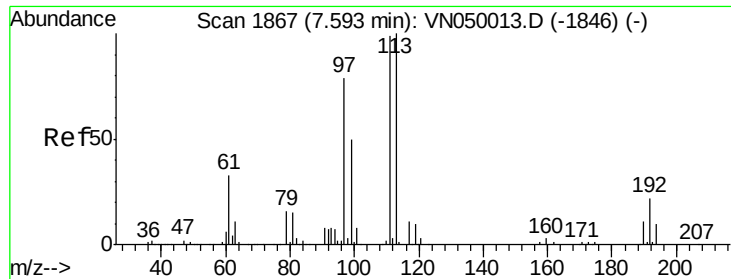
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 47.77 ug/l

RT: 7.60 min Scan# 1868

Delta R.T. 0.00 min

Lab File: VN050024.D

Acq: 24 Jul 2018 16:43

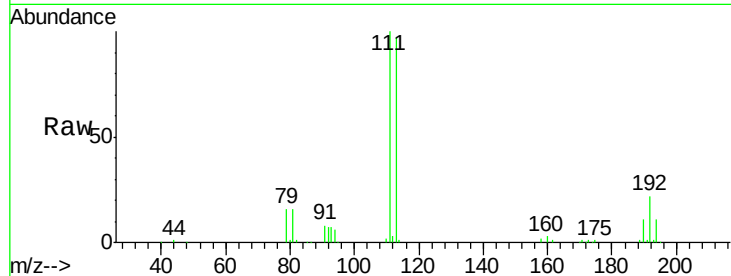
Tot Ion:113 Resp: 397064

Ion Ratio Lower Upper

113 100

111 102.0 80.7 121.1

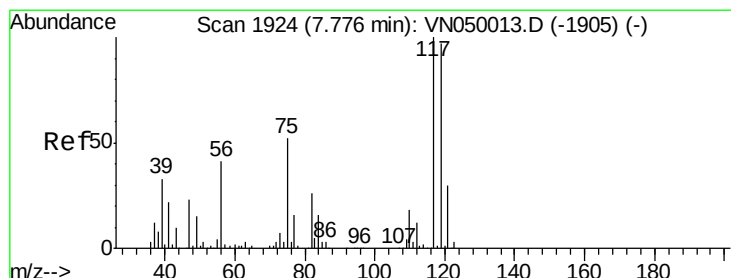
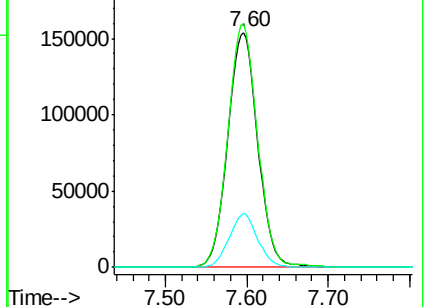
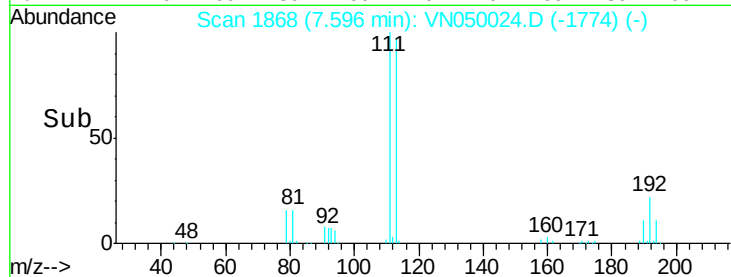
192 21.7 17.8 26.6



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



#38

Carbon Tetrachloride

Concen: 4.79 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN050024.D

Acq: 24 Jul 2018 16:43

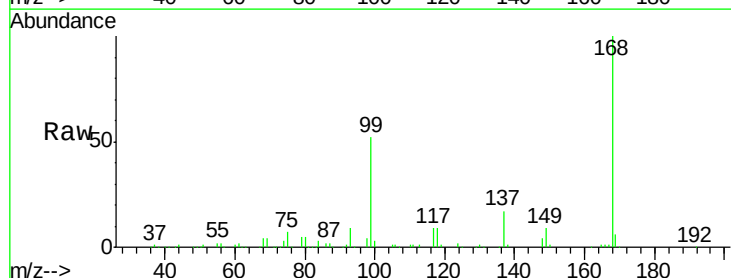
Tgt Ion:117 Resp: 58242

Ion Ratio Lower Upper

117 100

119 5.7 77.4 116.0#

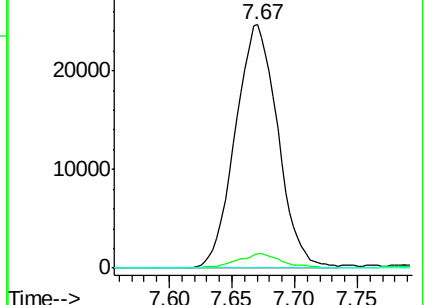
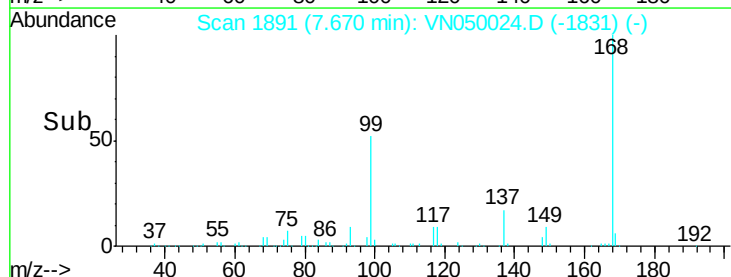
121 0.0 23.9 35.9#

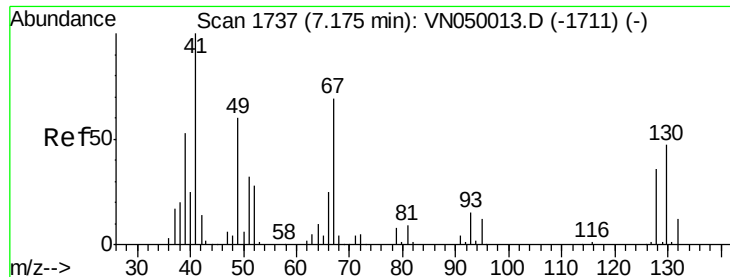


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 2.77 ug/l

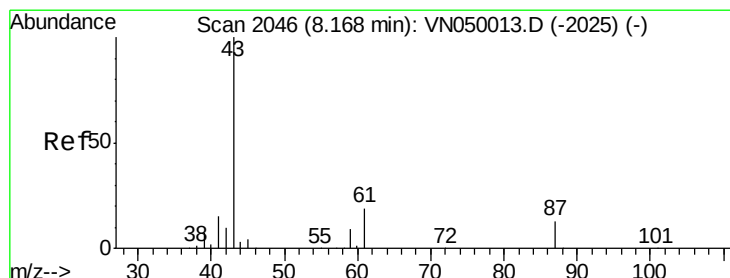
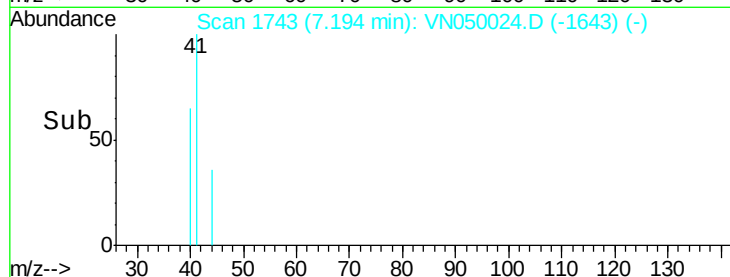
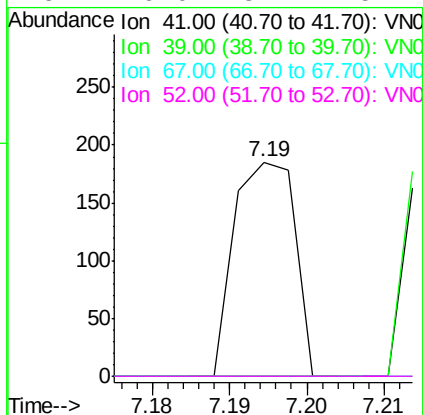
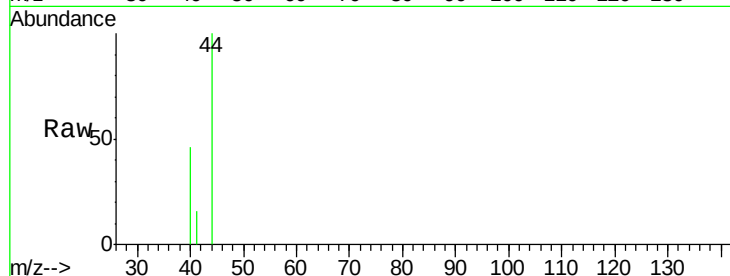
RT: 7.19 min Scan# 1743

Delta R.T. 0.02 min

Lab File: VN050024.D

Acq: 24 Jul 2018 16:43

Tot Ion:	41	Resp:	101
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#



#43

Isopropyl Acetate

Concen: 0.63 ug/l

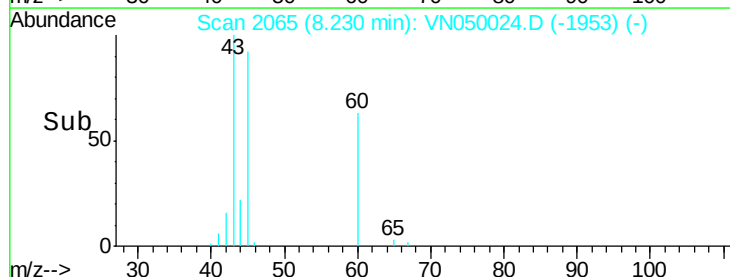
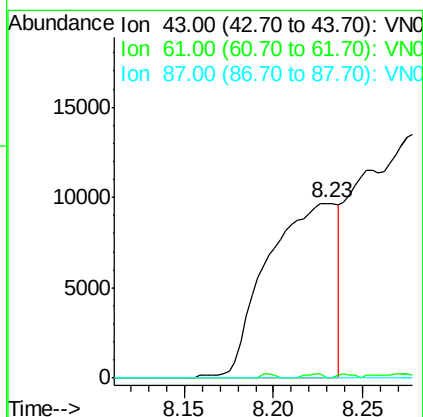
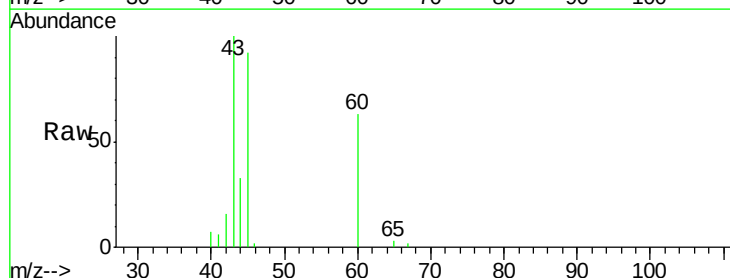
RT: 8.23 min Scan# 2065

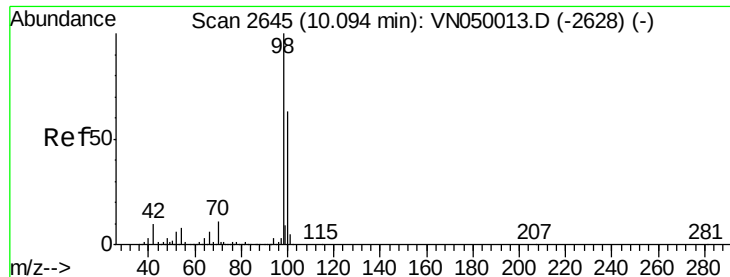
Delta R.T. 0.06 min

Lab File: VN050024.D

Acq: 24 Jul 2018 16:43

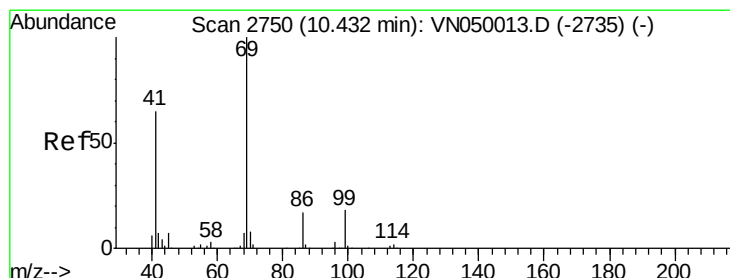
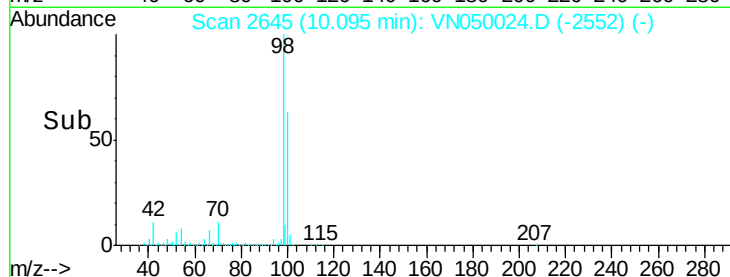
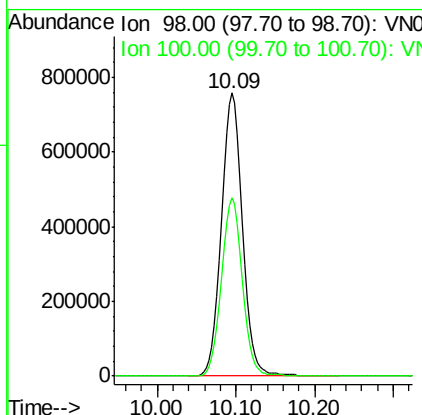
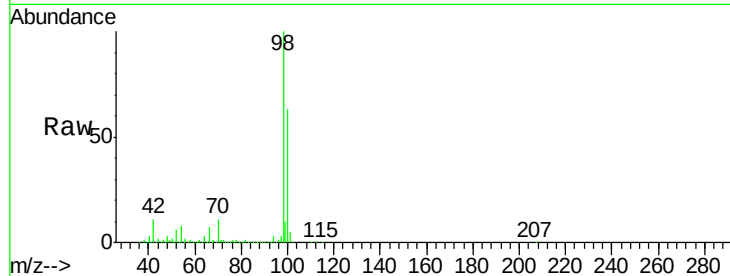
Tgt Ion:	43	Resp:	26448
Ion	Ratio	Lower	Upper
43	100		
61	0.0	15.8	23.6#
87	0.0	10.3	15.5#





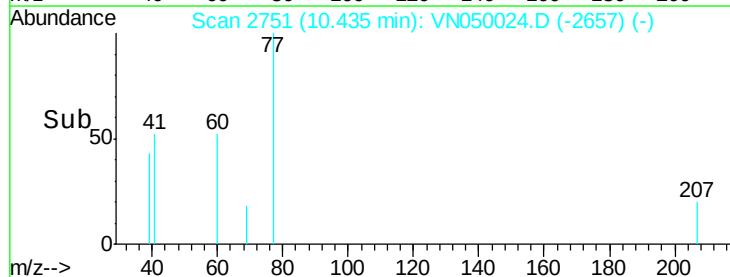
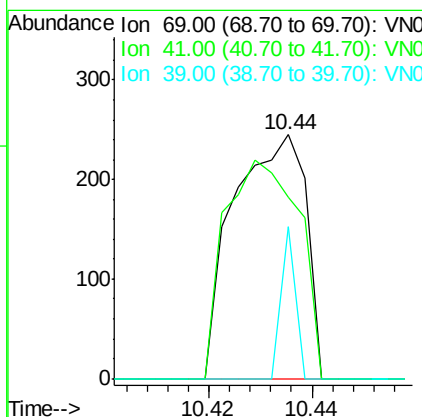
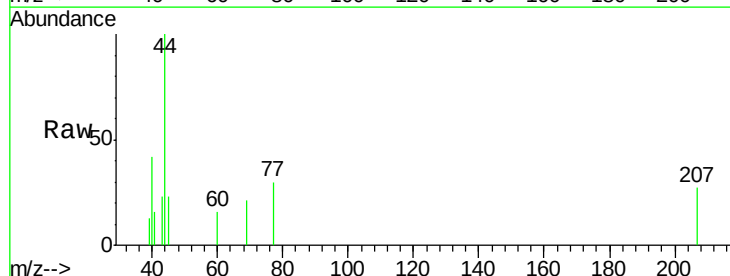
#50
Toluene-d8
Concen: 45.63 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050024.D
Acq: 24 Jul 2018 16:43

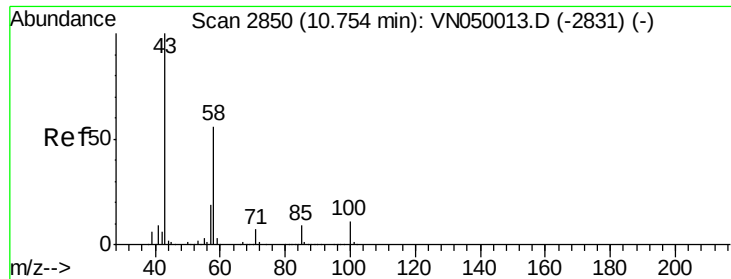
Tot Ion: 98 Resp: 1394432
Ion Ratio Lower Upper
98 100
100 62.7 50.7 76.1



#56
Ethyl methacrylate
Concen: 2.05 ug/l
RT: 10.44 min Scan# 2751
Delta R.T. 0.00 min
Lab File: VN050024.D
Acq: 24 Jul 2018 16:43

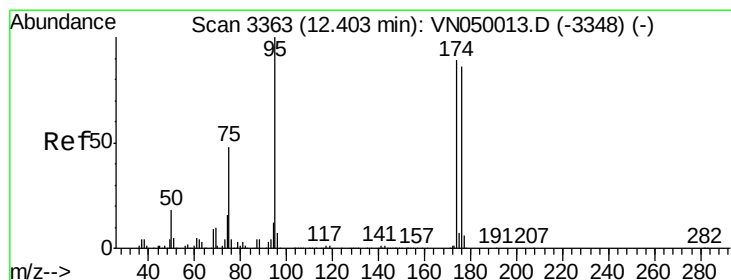
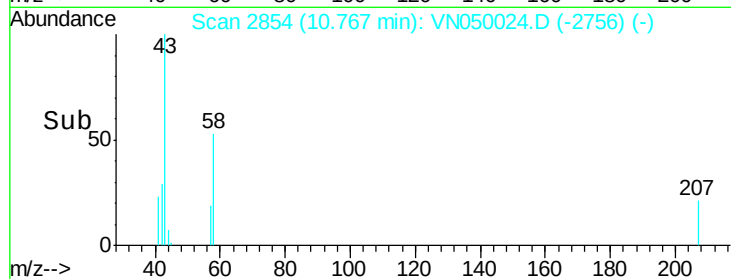
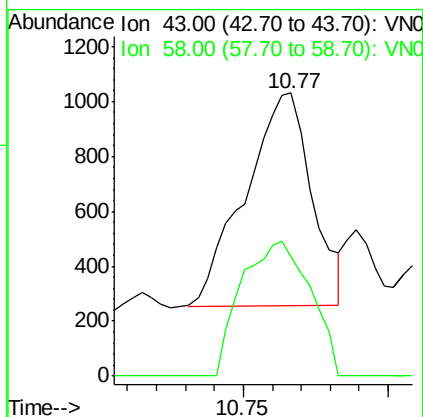
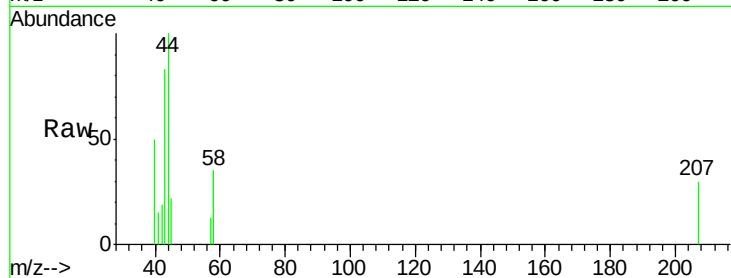
Tgt Ion: 69 Resp: 237
Ion Ratio Lower Upper
69 100
41 91.6 51.0 76.4#
39 12.2 26.6 40.0#





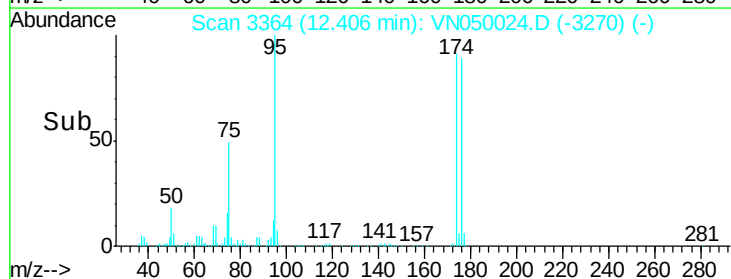
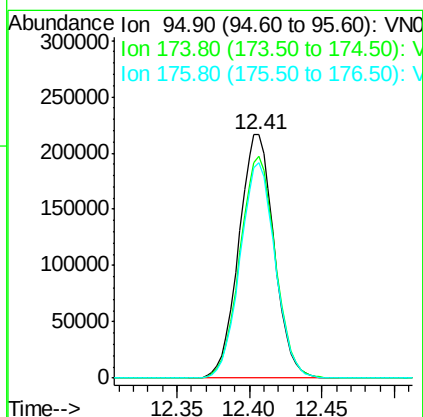
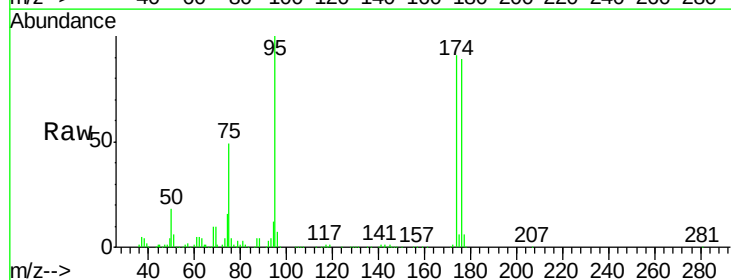
#59
2-Hexanone
Concen: 5.38 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN050024.D
Acq: 24 Jul 2018 16:43

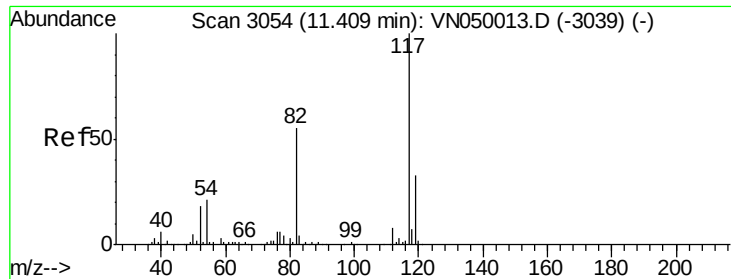
Tot Ion: 43 Resp: 1238
Ion Ratio Lower Upper
43 100
58 65.3 27.6 82.7



#62
4-Bromofluorobenzene
Concen: 36.40 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN050024.D
Acq: 24 Jul 2018 16:43

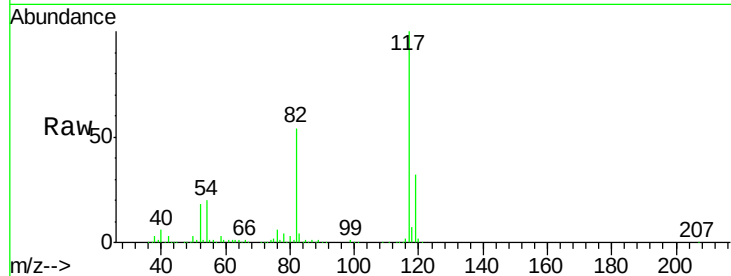
Tgt Ion: 95 Resp: 366251
Ion Ratio Lower Upper
95 100
174 91.4 0.0 178.2
176 87.9 0.0 173.4



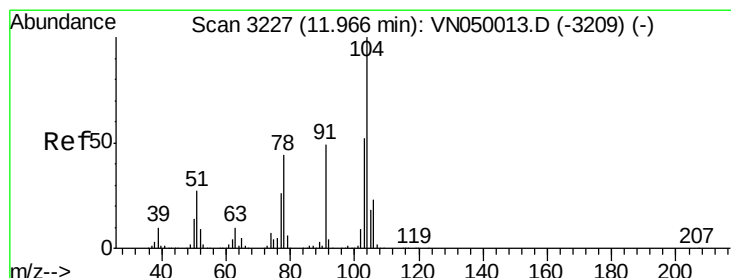
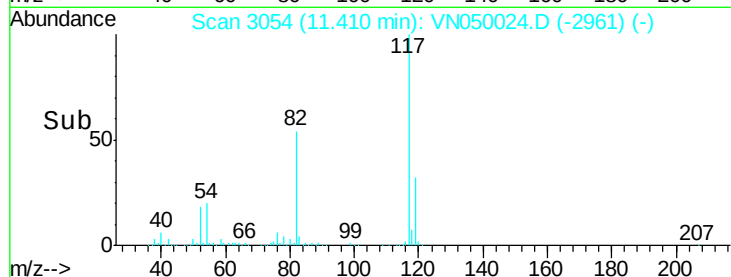
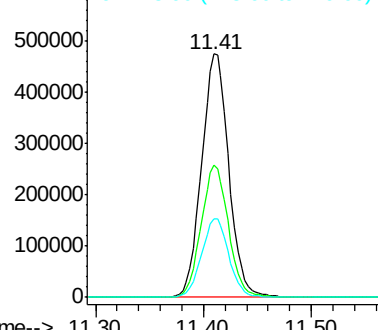


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050024.D
Acq: 24 Jul 2018 16:43

Tot Ion:117 Resp: 834562
Ion Ratio Lower Upper
117 100
82 54.2 43.7 65.5
119 32.4 26.1 39.1

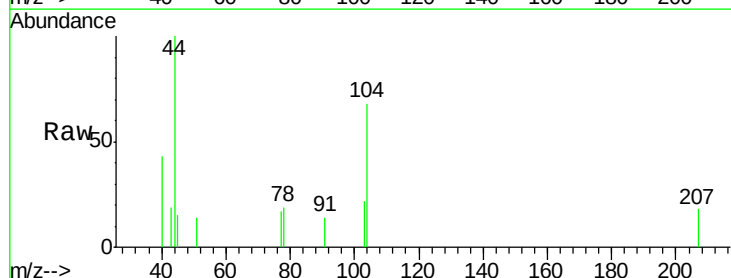


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): V

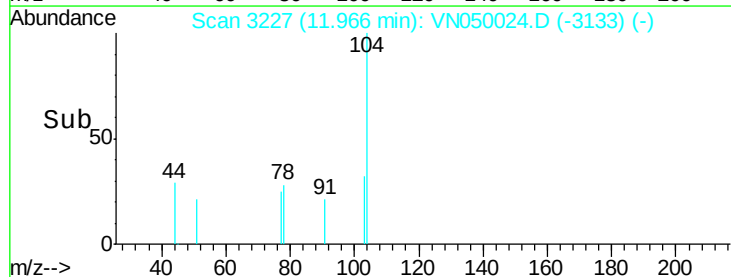
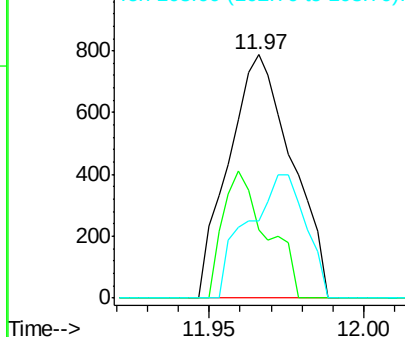


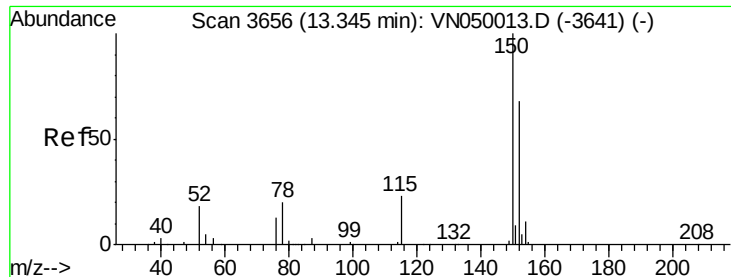
#70
Styrene
Concen: 0.97 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050024.D
Acq: 24 Jul 2018 16:43

Tgt Ion:104 Resp: 1120
Ion Ratio Lower Upper
104 100
78 36.2 39.3 58.9#
103 46.6 45.0 67.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN0
Ion 103.00 (102.70 to 103.70): 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: VN050024.D

Acq: 24 Jul 2018 16:43

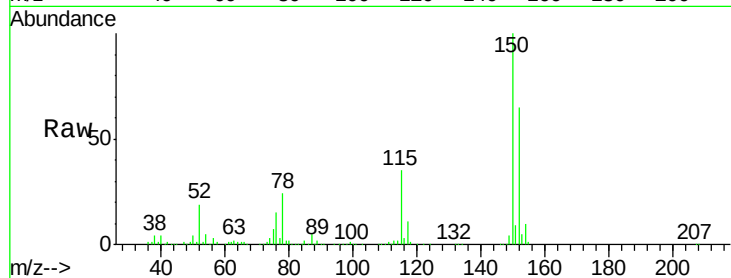
Tot Ion:152 Resp: 299088

Ion Ratio Lower Upper

152 100

115 55.2 27.8 83.3

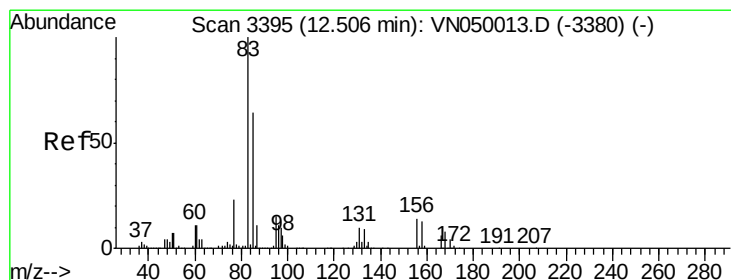
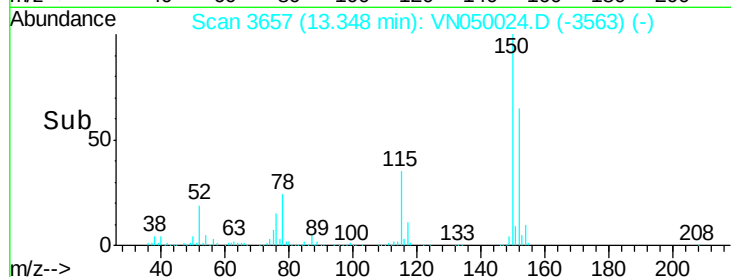
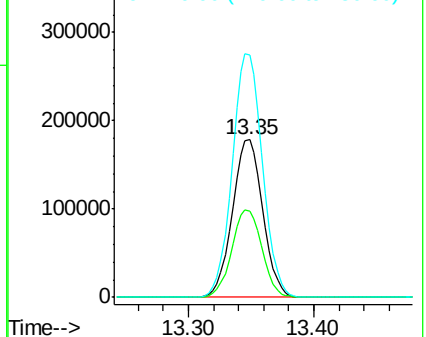
150 153.9 0.0 348.6



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: 12.51 min Scan# 3396

Delta R.T. 0.00 min

Lab File: VN050024.D

Acq: 24 Jul 2018 16:43

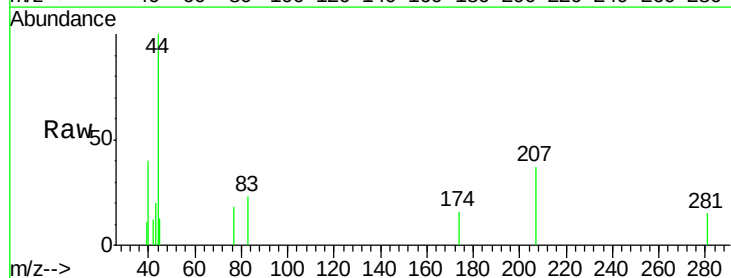
Tgt Ion: 83 Resp: 440

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

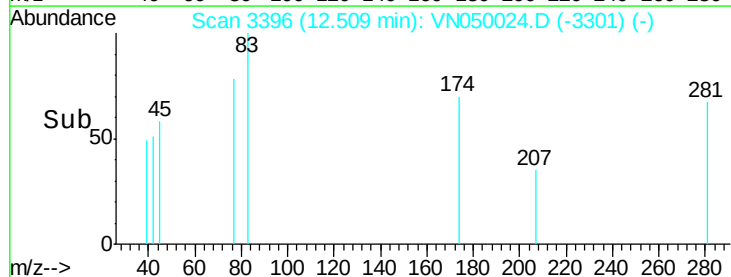
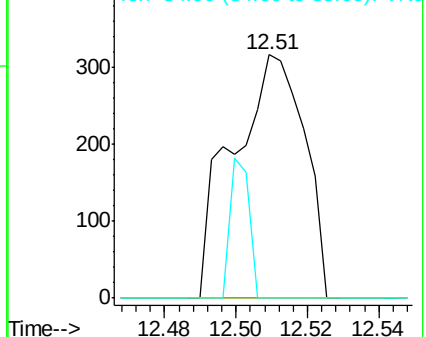
85 15.2 32.3 96.8#

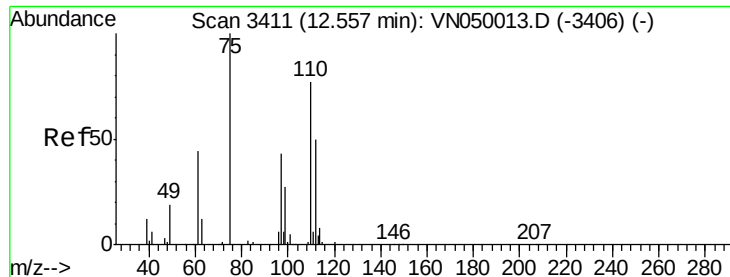


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 32.31 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050024.D

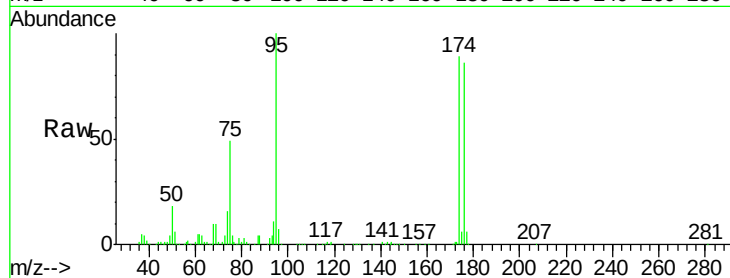
Acq: 24 Jul 2018 16:43

Tot Ion: 75 Resp: 179609

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

120000

100000

80000

60000

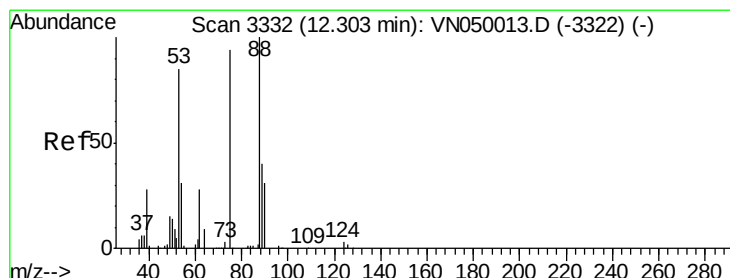
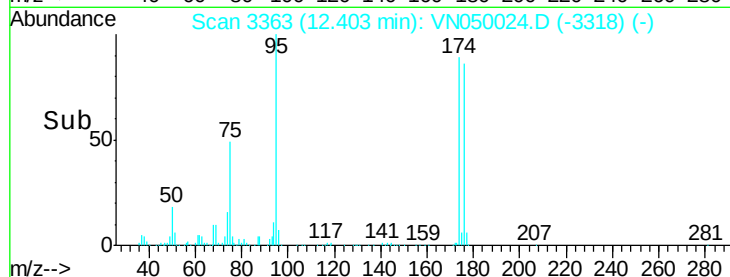
40000

20000

0

12.35 12.40 12.45

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 102.49 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050024.D

Acq: 24 Jul 2018 16:43

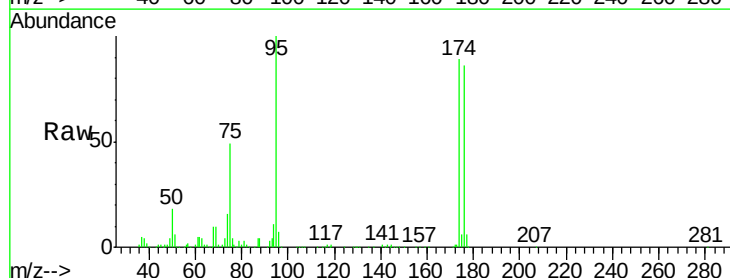
Tgt Ion: 75 Resp: 179609

Ion Ratio Lower Upper

75 100

53 0.3 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

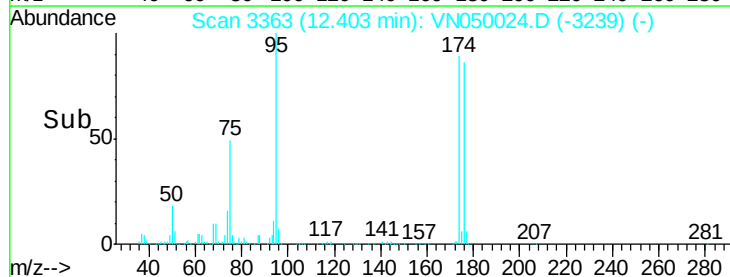
100000

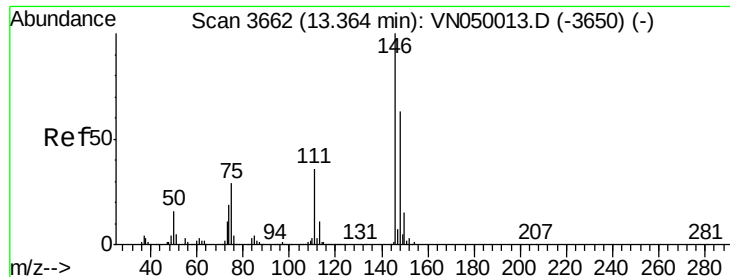
50000

0

12.35 12.40 12.45

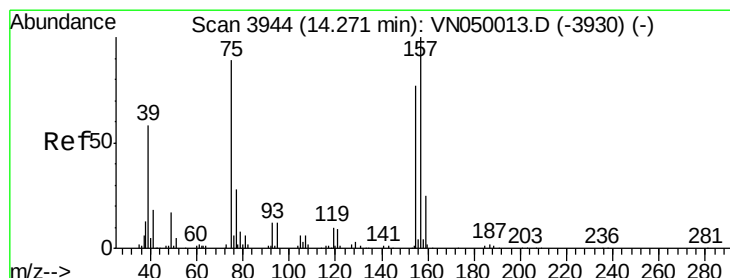
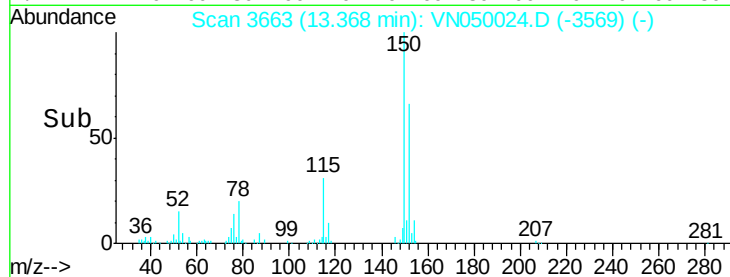
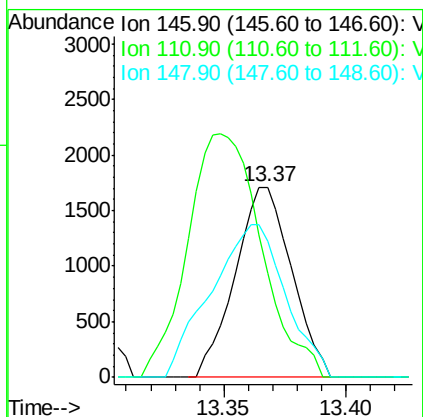
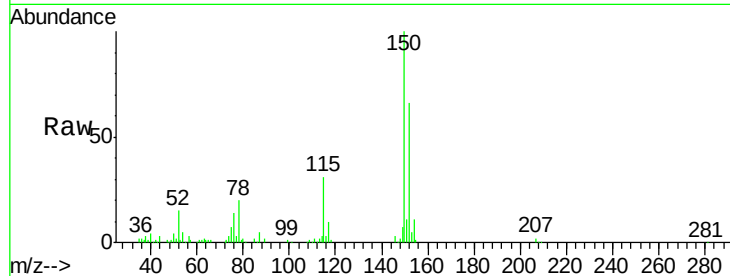
Time-->





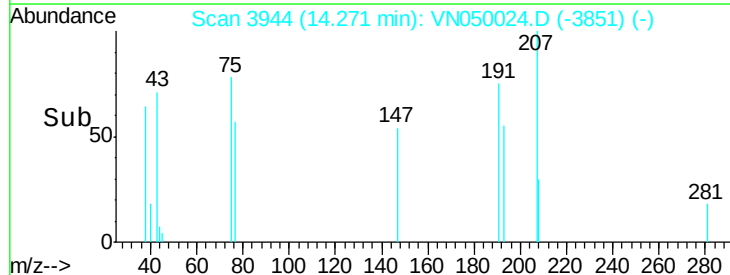
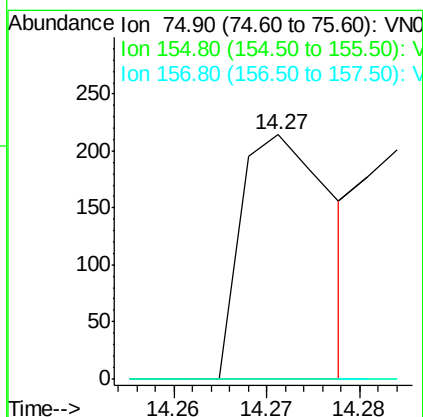
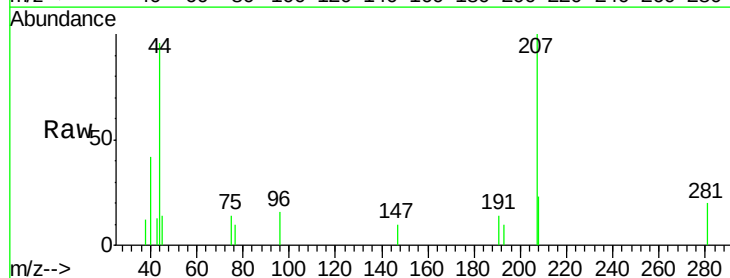
#88
 1,4-Dichlorobenzene
 Concen: 0.26 ug/l
 RT: 13.37 min Scan# 3663
 Delta R.T. 0.00 min
 Lab File: VN050024.D
 Acq: 24 Jul 2018 16:43

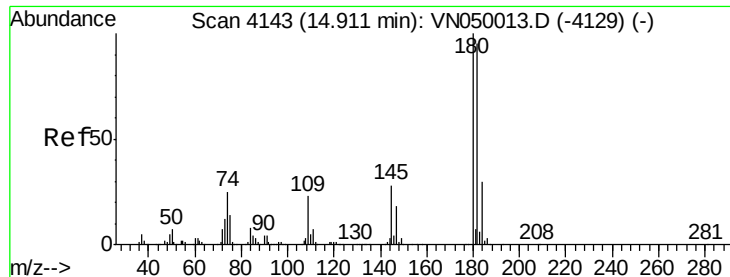
Tot Ion:146 Resp: 2740
 Ion Ratio Lower Upper
 146 100
 111 167.8 18.3 54.9#
 148 106.5 31.9 95.9#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.27 min Scan# 3944
 Delta R.T. 0.00 min
 Lab File: VN050024.D
 Acq: 24 Jul 2018 16:43

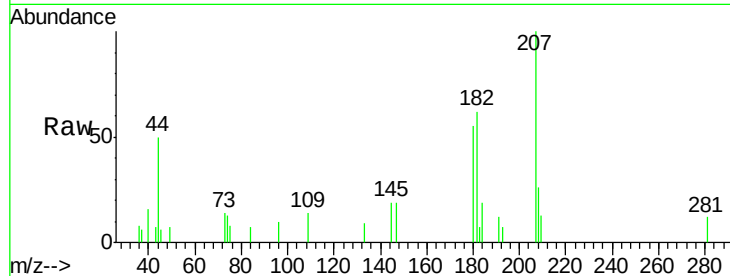
Tgt Ion: 75 Resp: 145
 Ion Ratio Lower Upper
 75 100
 155 0.0 44.8 134.4#
 157 0.0 57.2 171.6#



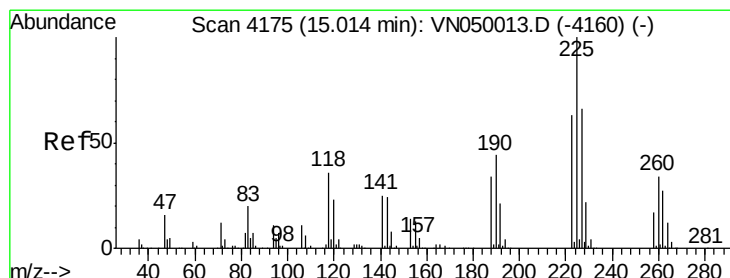
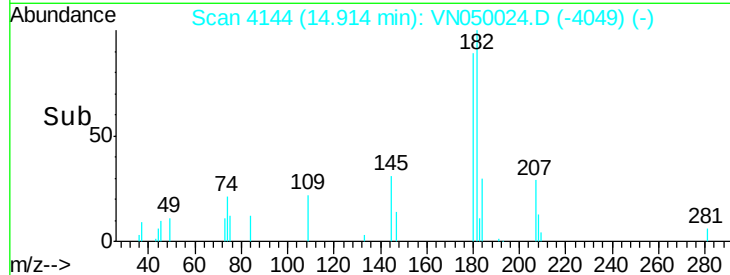
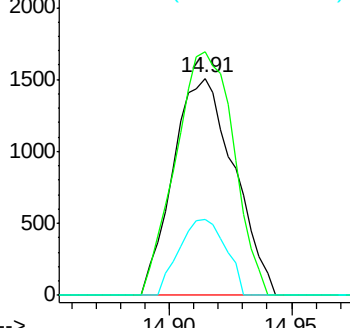


#93
 1,2,4-Trichlorobenzene
 Concen: 3.51 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN050024.D
 Acq: 24 Jul 2018 16:43

Tot Ion:180 Resp: 2622
 Ion Ratio Lower Upper
 180 100
 182 106.6 46.7 140.1
 145 26.7 13.8 41.4

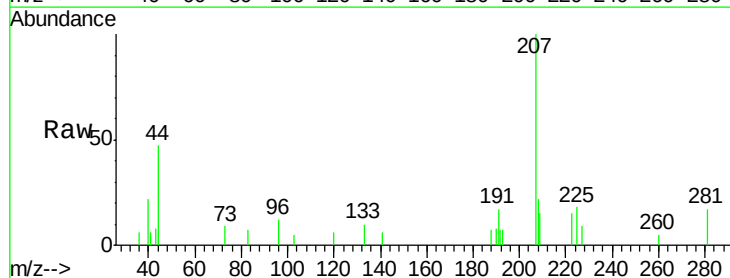


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

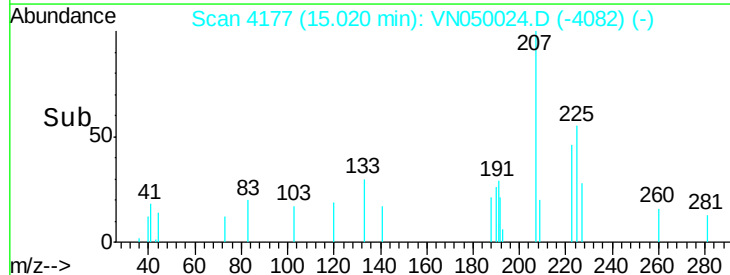
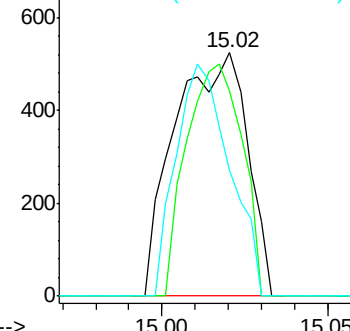


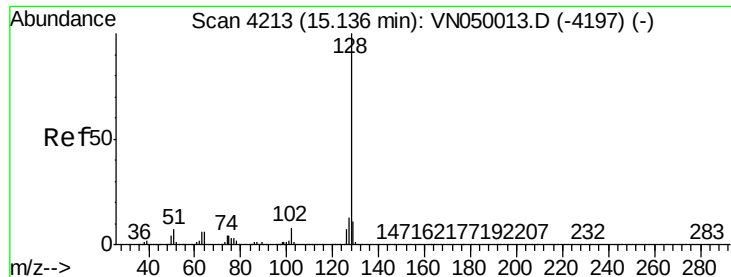
#94
 Hexachlorobutadiene
 Concen: 0.24 ug/l
 RT: 15.02 min Scan# 4177
 Delta R.T. 0.01 min
 Lab File: VN050024.D
 Acq: 24 Jul 2018 16:43

Tgt Ion:225 Resp: 798
 Ion Ratio Lower Upper
 225 100
 223 72.9 31.4 94.2
 227 70.2 32.1 96.5



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 4.92 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050024.D

Acq: 24 Jul 2018 16:43

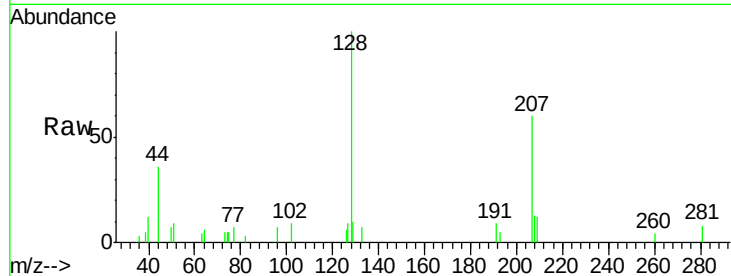
Tot Ion:128 Resp: 7626

Ion Ratio Lower Upper

128 100

127 11.3 10.4 15.6

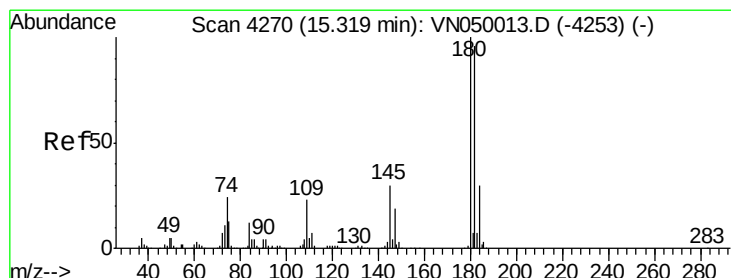
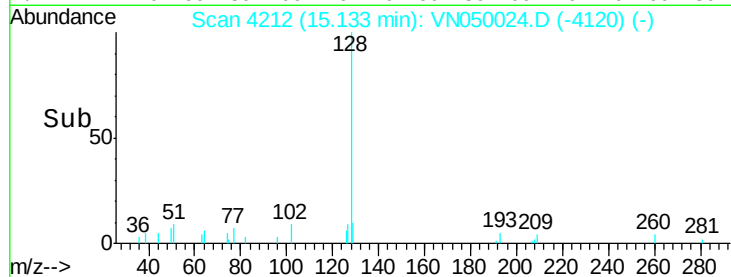
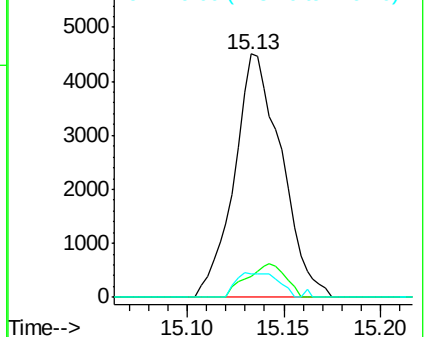
129 9.0 8.8 13.2



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



#96

1,2,3-Trichlorobenzene

Concen: 2.74 ug/l

RT: 15.32 min Scan# 4270

Delta R.T. 0.00 min

Lab File: VN050024.D

Acq: 24 Jul 2018 16:43

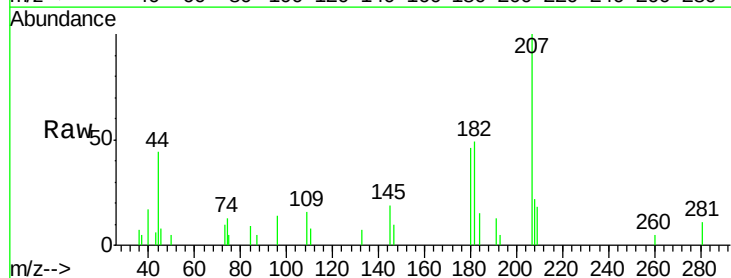
Tgt Ion:180 Resp: 3148

Ion Ratio Lower Upper

180 100

182 87.4 48.1 144.4

145 32.4 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

