

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100618\
 Data File : VN051694.D
 Acq On : 5 Oct 2018 18:43
 Operator : MD\SY
 Sample : VN1006MBL01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 24 Sample Multiplier: 28

Quant Time: Oct 06 01:19:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 05 02:22:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	624665	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	902322	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	773583	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	273800	50.00	ug/l	0.00

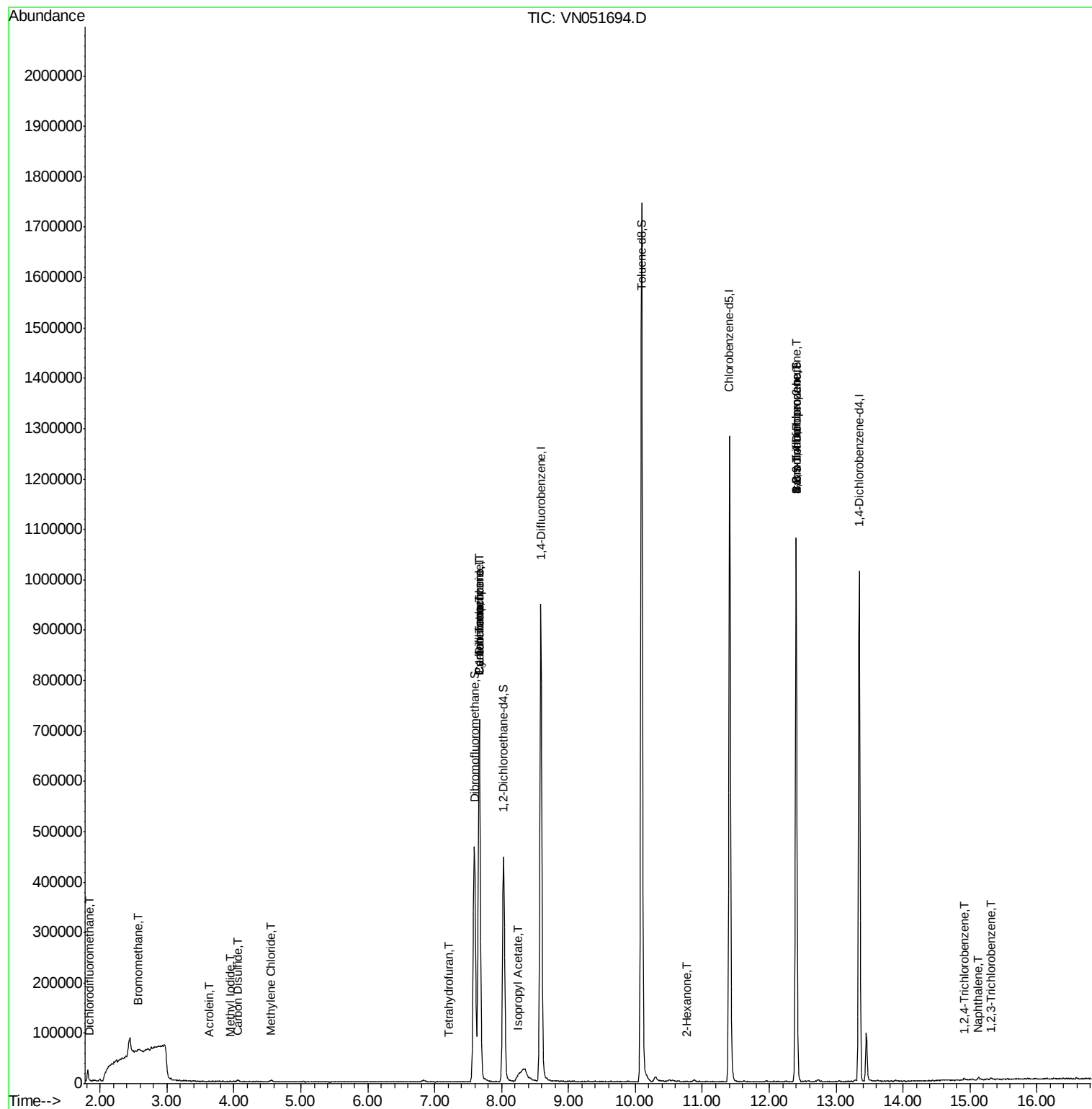
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	375120	45.46	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.92%	
35) Dibromofluoromethane	7.59	113	344896	49.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.88%	
50) Toluene-d8	10.09	98	1271457	48.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.70%	
62) 4-Bromofluorobenzene	12.40	95	337799	36.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.34%	

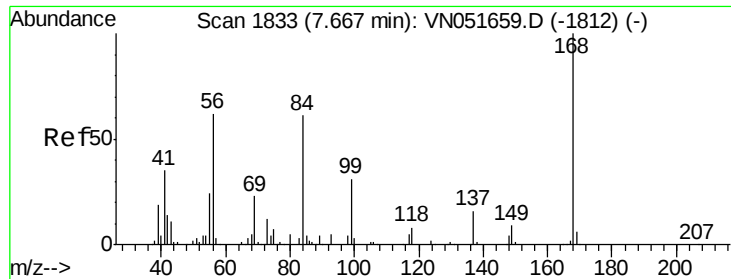
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.85	85	103	1.162	ug/l #	42
5) Bromomethane	2.57	94	3908	0.453	ug/l	97
7) Trichlorofluoromethane	3.01	101	107	Below Cal	#	18
10) Methyl Iodide	3.96	142	382	2.382	ug/l #	41
13) Acrolein	3.62	56	361	1.030	ug/l #	44
16) Acetone	3.81	43	343	Below Cal	#	73
17) Carbon Disulfide	4.05	76	4512	0.255	ug/l	97
20) Methylene Chloride	4.56	84	2563	0.378	ug/l #	76
29) Tetrahydrofuran	7.21	42	301	0.206	ug/l #	44
31) Cyclohexane	7.67	56	12655	1.130	ug/l #	19
36) 1,1-Dichloropropene	7.67	75	42688	4.526	ug/l #	49
38) Carbon Tetrachloride	7.67	117	56509	4.993	ug/l #	15
41) Methacrylonitrile	7.18	41	185	Below Cal	#	37
43) Isopropyl Acetate	8.24	43	8176	0.797	ug/l #	62
59) 2-Hexanone	10.75	43	731	0.207	ug/l #	22
71) Bromoform	12.40	173	3263	0.572	ug/l #	1
74) N-amyl acetate	12.07	43	525	Below Cal	#	69
75) 1,1,2,2-Tetrachloroethane	12.50	83	104	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	185814	55.031	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	185814	124.749	ug/l #	14
93) 1,2,4-Trichlorobenzene	14.91	180	1165	0.265	ug/l #	89
95) Naphthalene	15.13	128	3936	0.414	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.32	180	1453	0.335	ug/l	94

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051694.D

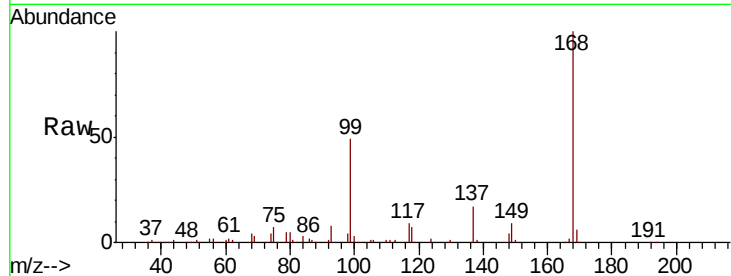
Acq: 5 Oct 2018 18:43

Tot Ion:168 Resp: 624665

Ion Ratio Lower Upper

168 100

99 48.7 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

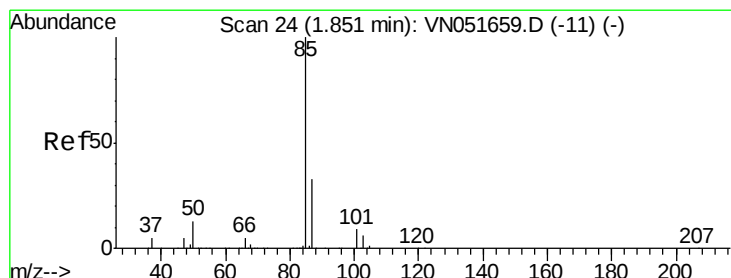
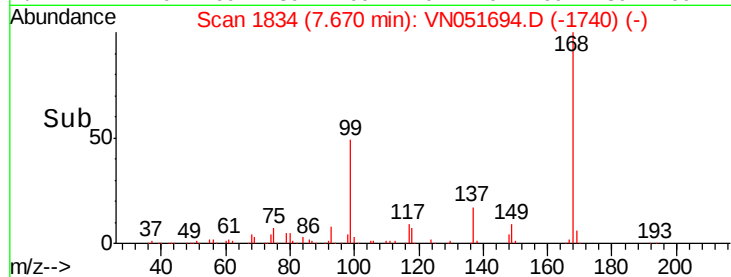
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.162 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.00 min

Lab File: VN051694.D

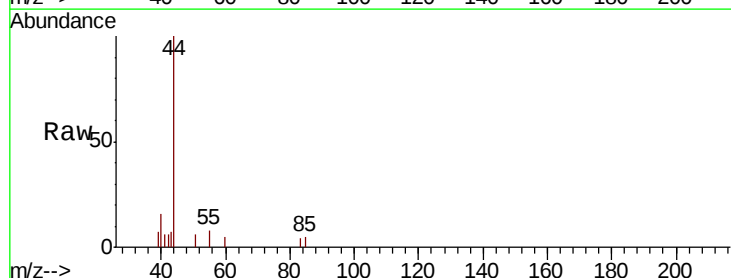
Acq: 5 Oct 2018 18:43

Tgt Ion: 85 Resp: 103

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.4#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

200

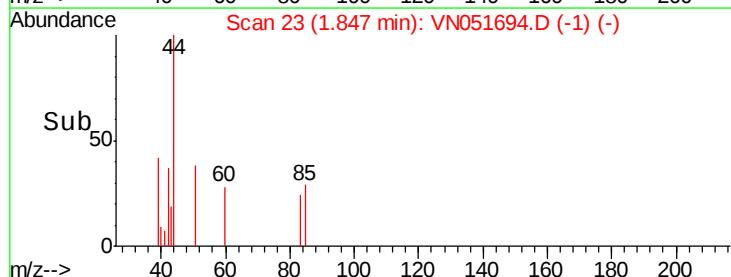
150

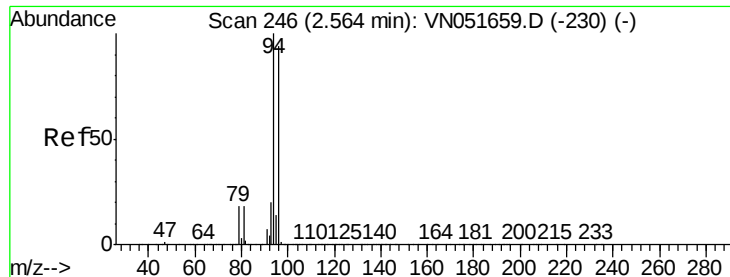
100

50

0

Time-->





#5

Bromomethane

Concen: 0.453 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051694.D

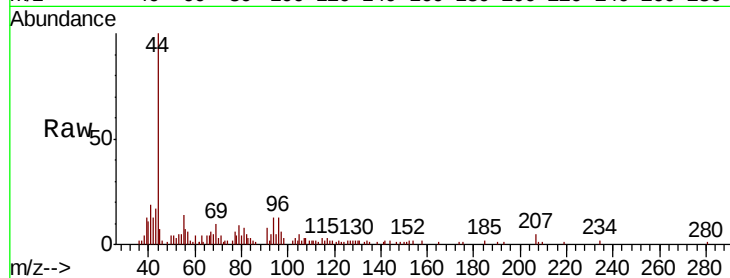
Acq: 5 Oct 2018 18:43

Tot Ion: 94 Resp: 3908

Ion Ratio Lower Upper

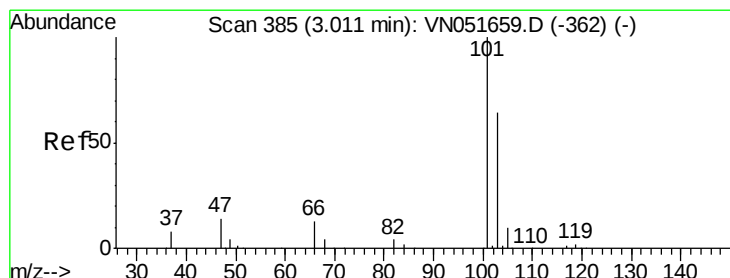
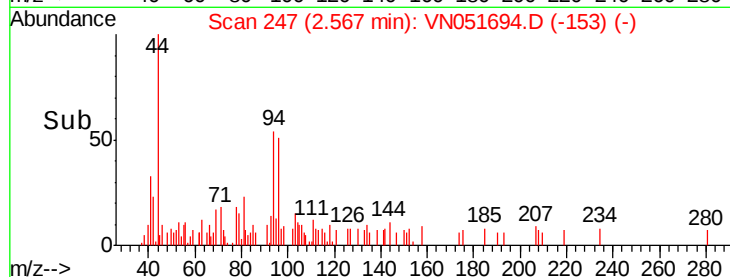
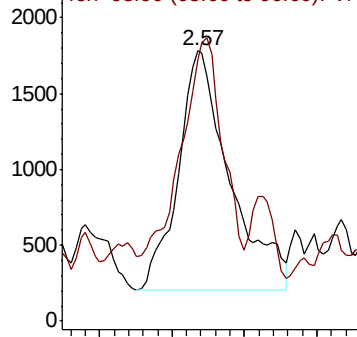
94 100

96 91.5 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 3.01 min Scan# 384

Delta R.T. -0.00 min

Lab File: VN051694.D

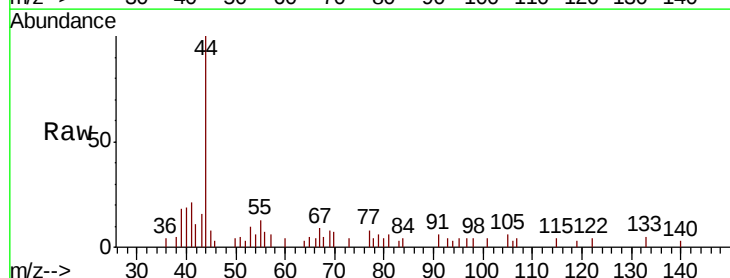
Acq: 5 Oct 2018 18:43

Tgt Ion: 101 Resp: 107

Ion Ratio Lower Upper

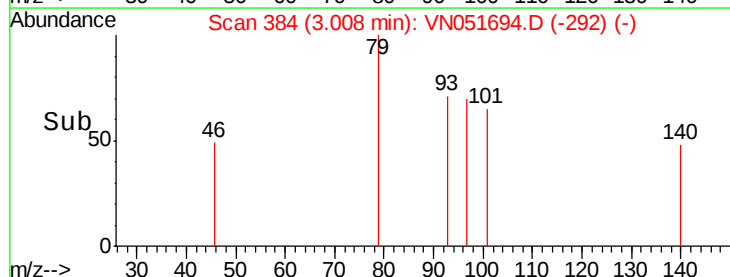
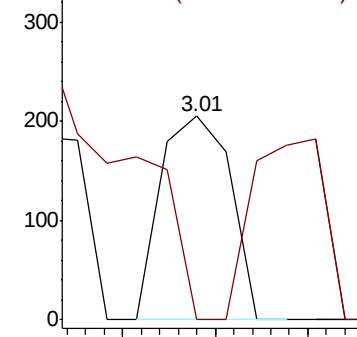
101 100

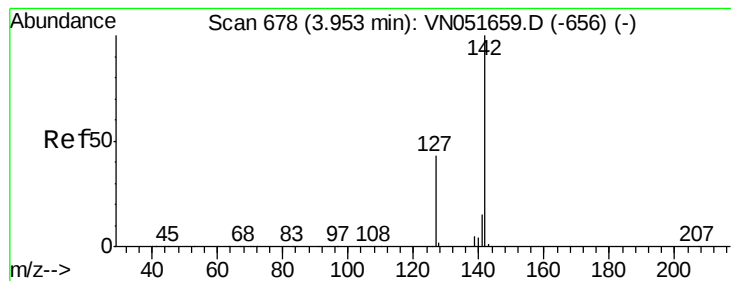
103 0.0 51.1 76.7#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V





#10

Methvl Iodide

Concen: 2.382 ug/l

RT: 3.96 min Scan# 680

Delta R.T. 0.01 min

Lab File: VN051694.D

Acq: 5 Oct 2018 18:43

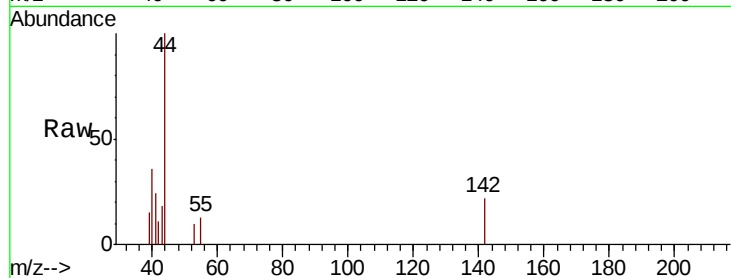
Tot Ion: 142 Resp: 382

Ion Ratio Lower Upper

142 100

127 0.0 34.7 52.1#

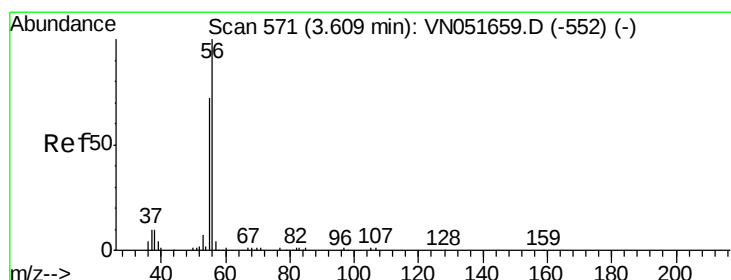
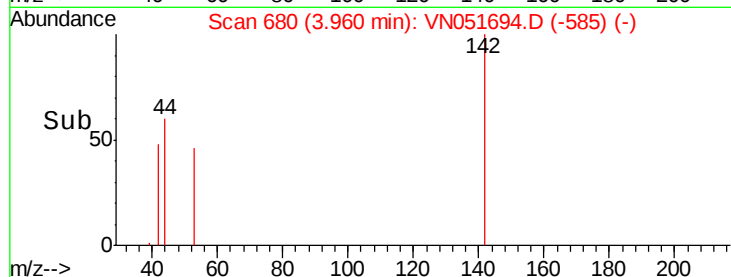
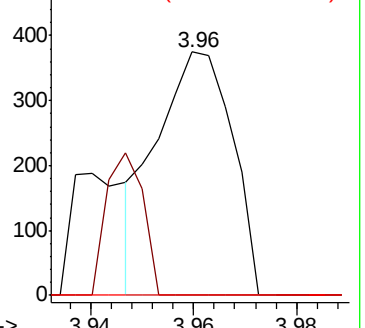
141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#13

Acrolein

Concen: 1.030 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN051694.D

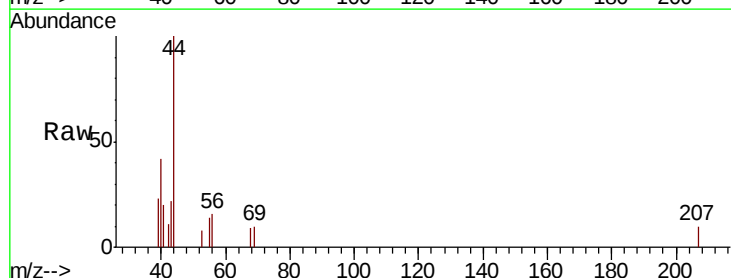
Acq: 5 Oct 2018 18:43

Tgt Ion: 56 Resp: 361

Ion Ratio Lower Upper

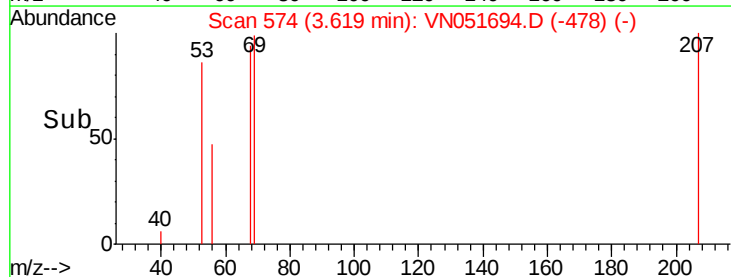
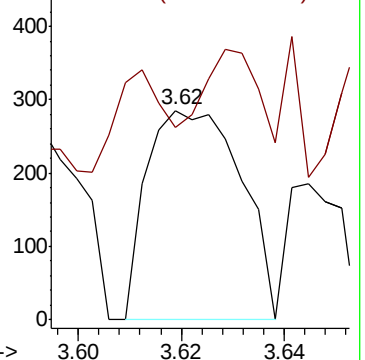
56 100

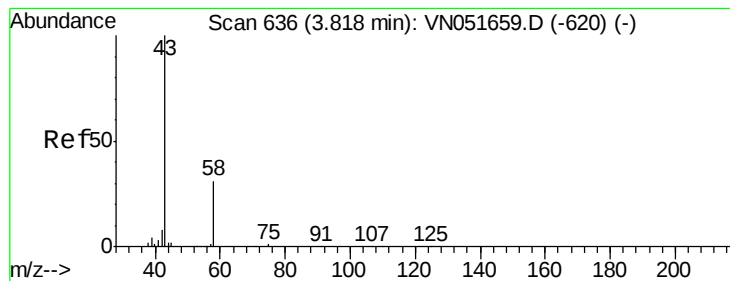
55 24.9 57.5 86.3#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: Below Cal

RT: 3.81 min Scan# 632

Delta R.T. -0.01 min

Lab File: VN051694.D

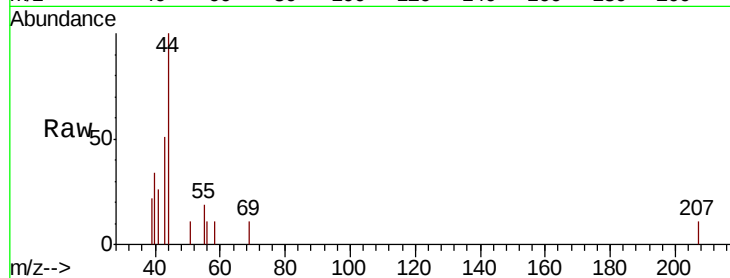
Acq: 5 Oct 2018 18:43

Tot Ion: 43 Resp: 343

Ion Ratio Lower Upper

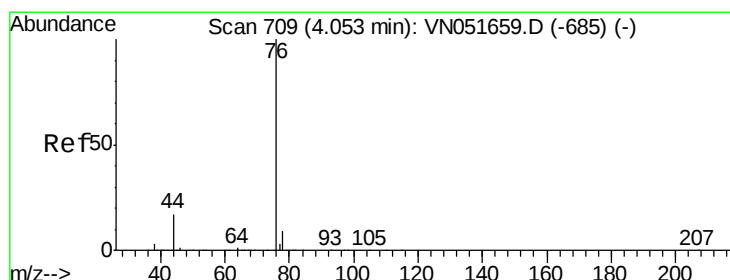
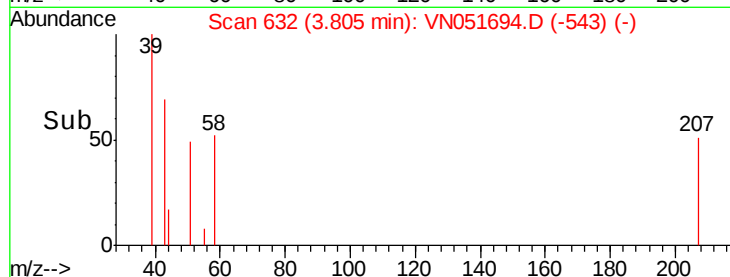
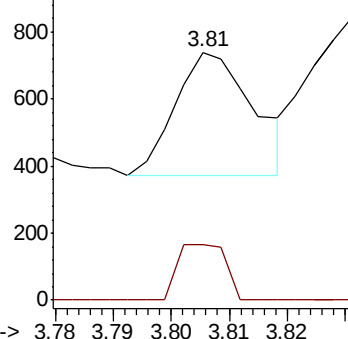
43 100

58 45.0 24.3 36.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.255 ug/l

RT: 4.05 min Scan# 708

Delta R.T. -0.00 min

Lab File: VN051694.D

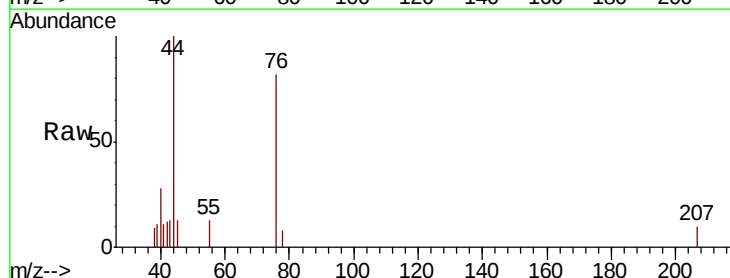
Acq: 5 Oct 2018 18:43

Tgt Ion: 76 Resp: 4512

Ion Ratio Lower Upper

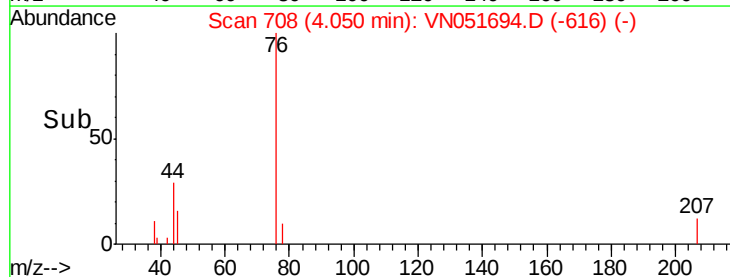
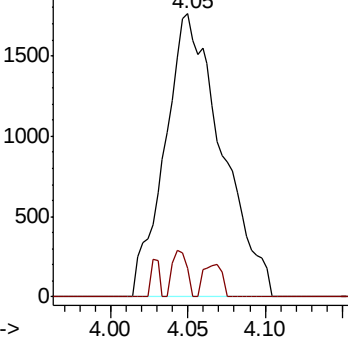
76 100

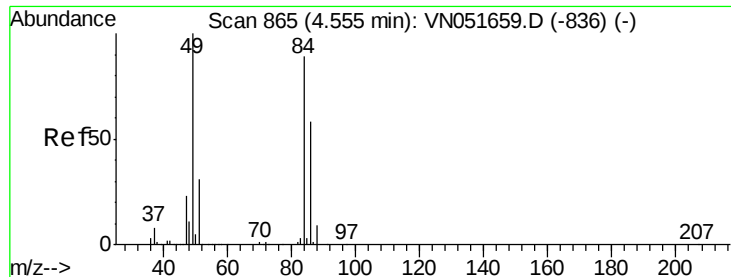
78 10.2 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VN0

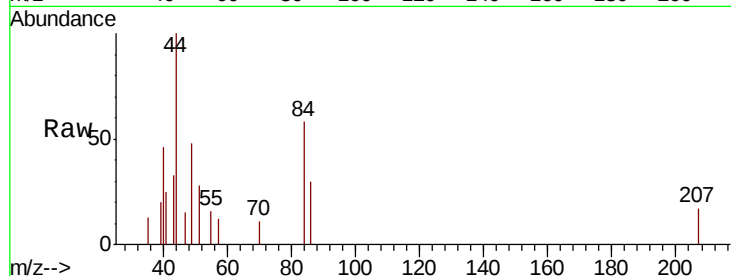
Ion 77.90 (77.60 to 78.60): VN0



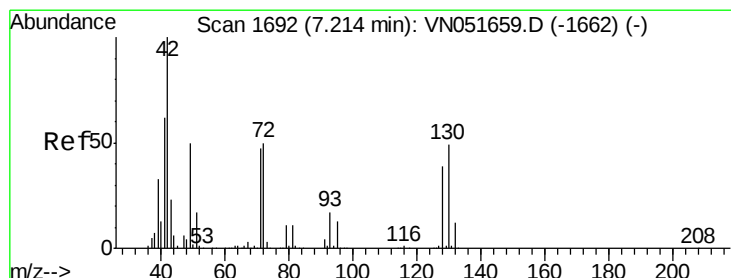
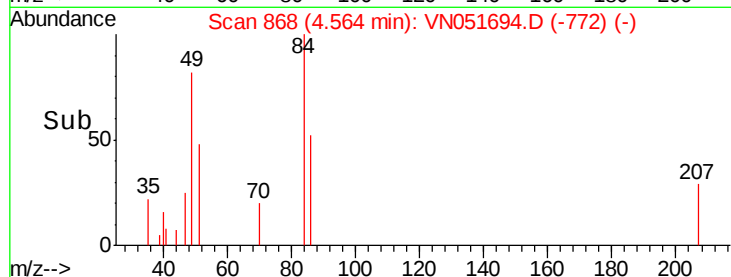
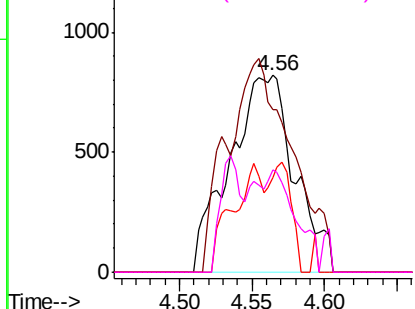


#20
Methvlene Chloride
Concen: 0.378 ug/l
RT: 4.56 min Scan# 868
Delta R.T. 0.01 min
Lab File: VN051694.D
Acq: 5 Oct 2018 18:43

Tot Ion: 84 Resp: 2563
Ion Ratio Lower Upper
84 100
49 82.2 89.5 134.3#
51 48.1 27.4 41.0#
86 51.8 51.9 77.9#

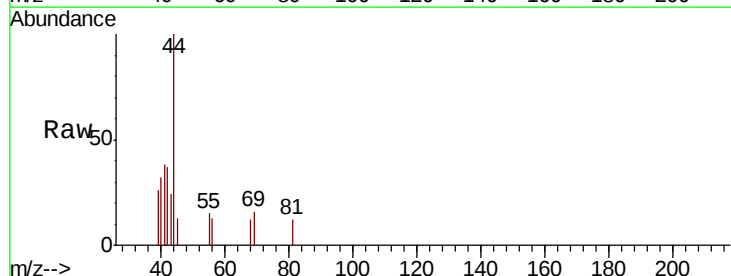


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

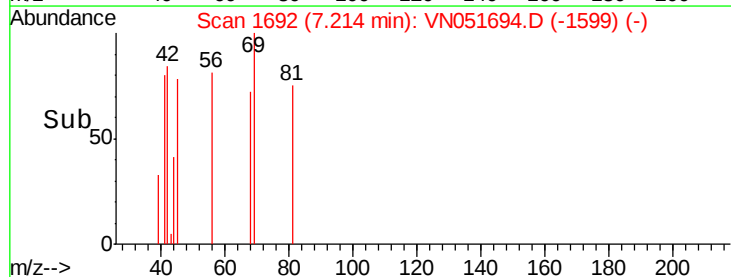
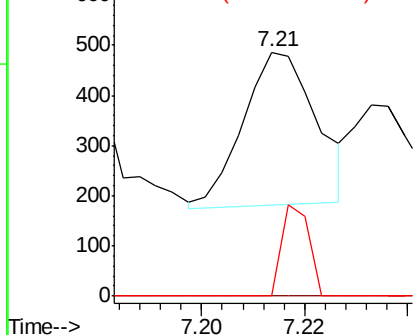


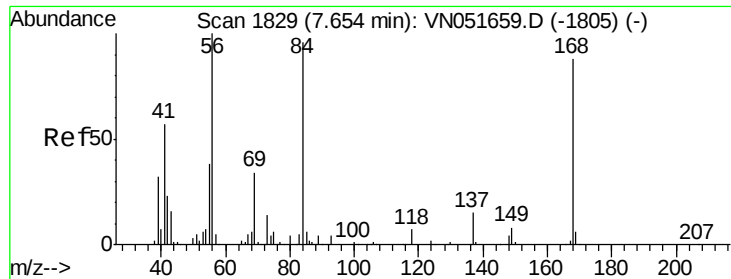
#29
Tetrahydrofuran
Concen: 0.206 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VN051694.D
Acq: 5 Oct 2018 18:43

Tgt Ion: 42 Resp: 301
Ion Ratio Lower Upper
42 100
72 0.0 40.1 60.1#
71 21.9 38.0 57.0#



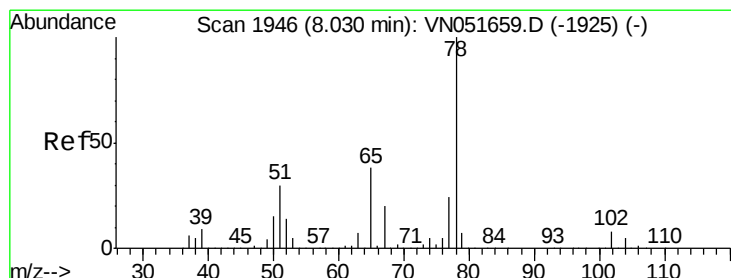
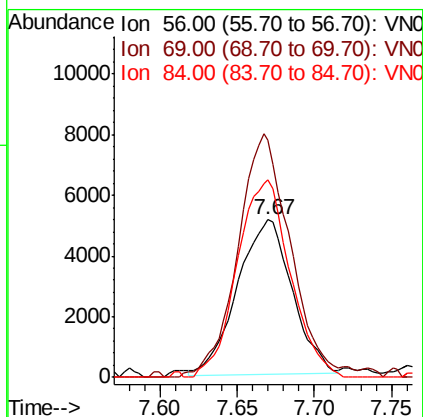
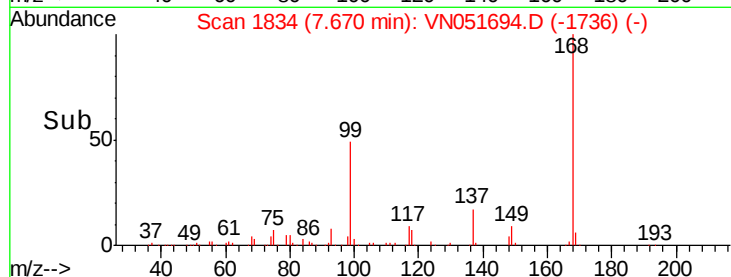
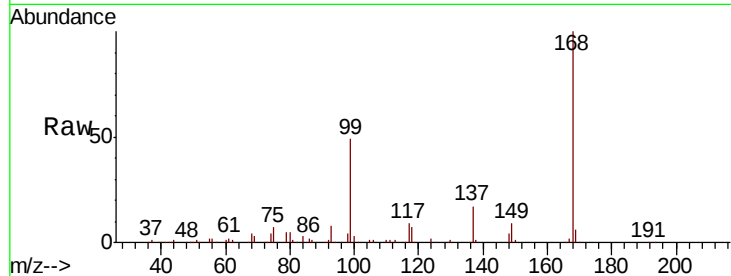
Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0





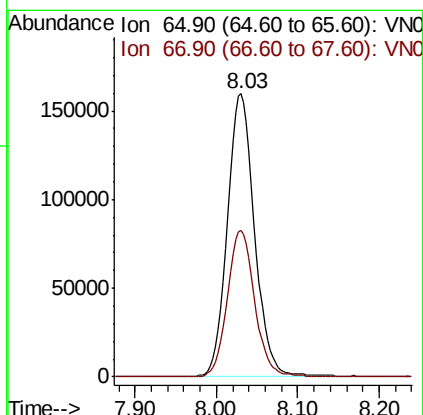
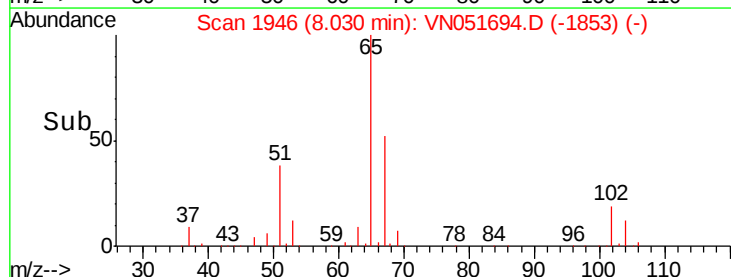
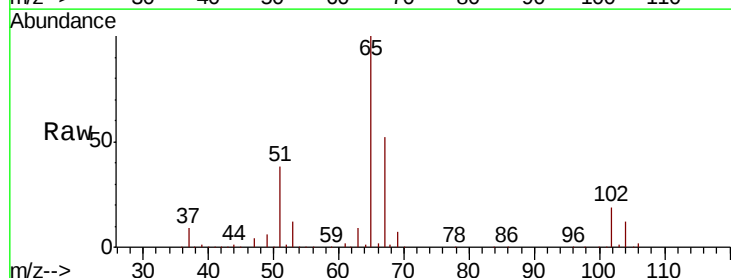
#31
Cvclohexane
Concen: 1.130 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.02 min
Lab File: VN051694.D
Acq: 5 Oct 2018 18:43

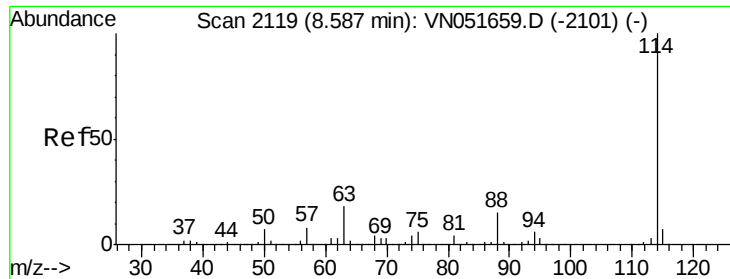
Tot Ion: 56 Resp: 12655
Ion Ratio Lower Upper
56 100
69 153.7 27.5 41.3#
84 131.3 76.7 115.1#



#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. -0.00 min
Lab File: VN051694.D
Acq: 5 Oct 2018 18:43

Tgt Ion: 65 Resp: 375120
Ion Ratio Lower Upper
65 100
67 51.8 0.0 103.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2120

Delta R.T. 0.00 min

Lab File: VN051694.D

Acq: 5 Oct 2018 18:43

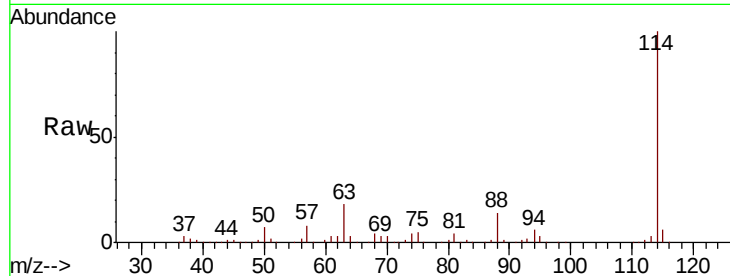
Tot Ion:114 Resp: 902322

Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.2

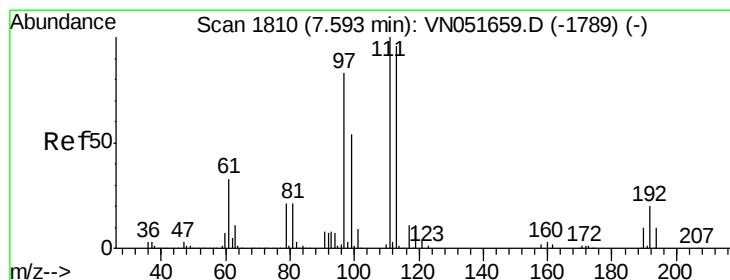
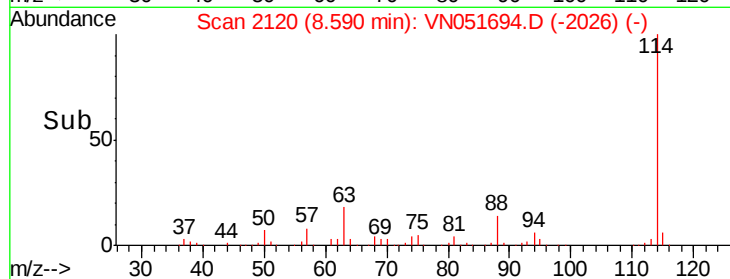
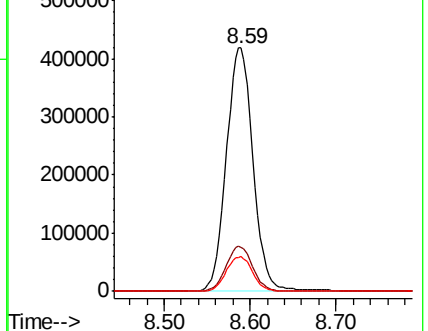
88 14.1 0.0 30.2



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: VN051694.D

Acq: 5 Oct 2018 18:43

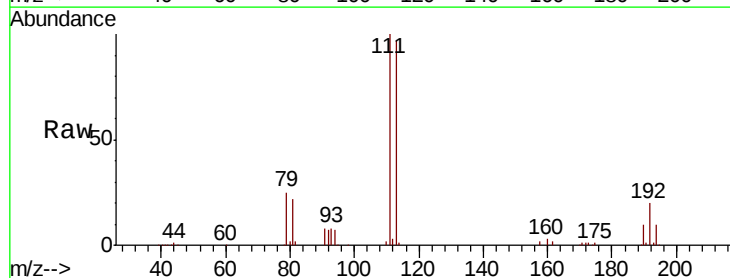
Tgt Ion:113 Resp: 344896

Ion Ratio Lower Upper

113 100

111 103.2 81.8 122.8

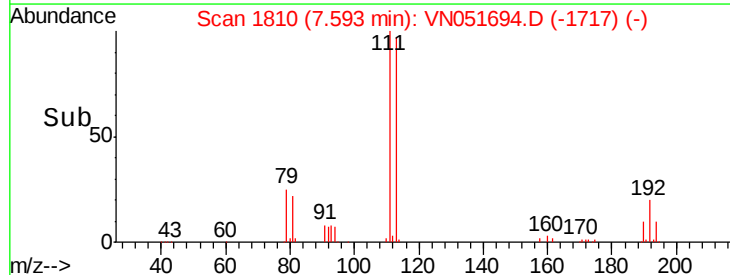
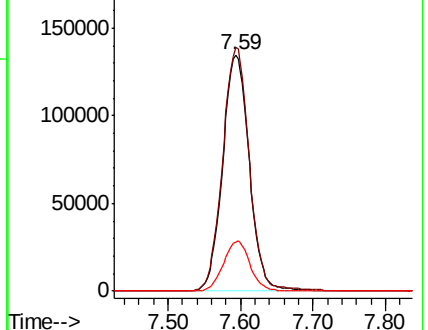
192 21.0 16.5 24.7

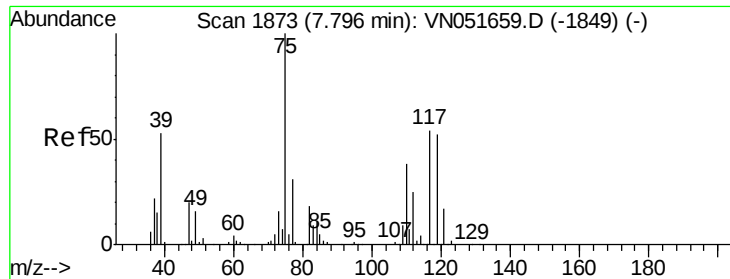


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.526 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051694.D

Acq: 5 Oct 2018 18:43

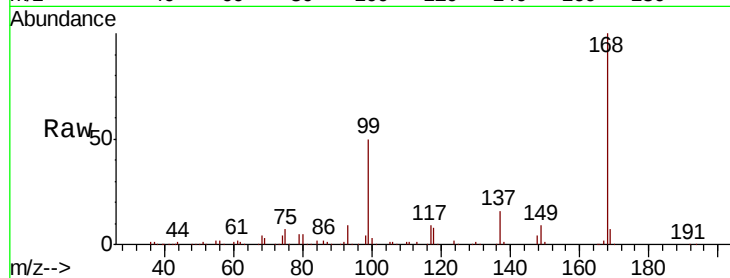
Tot Ion: 75 Resp: 42688

Ion Ratio Lower Upper

75 100

110 10.3 19.3 57.8#

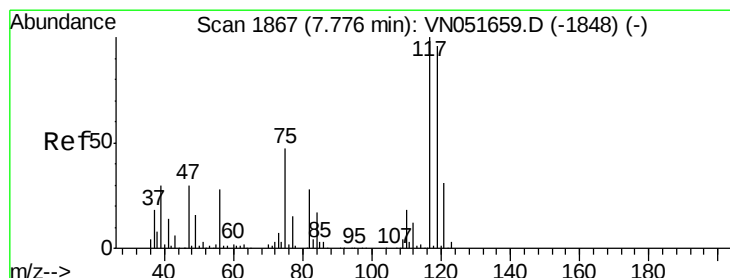
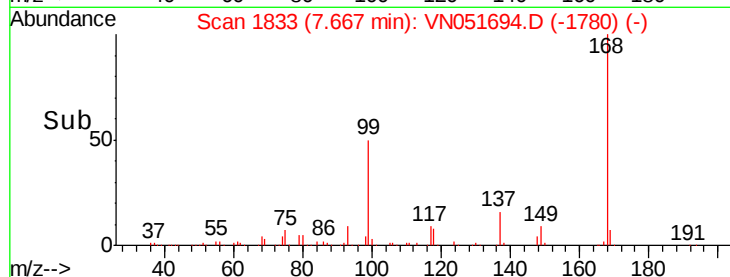
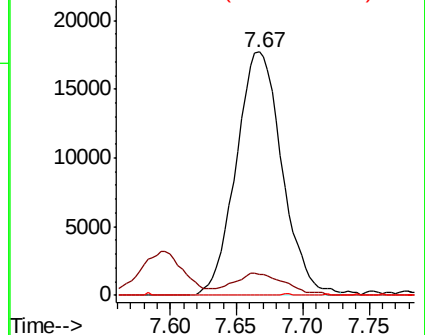
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VN051659.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN051659.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN051659.D (-1849) (-)



#38

Carbon Tetrachloride

Concen: 4.993 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051694.D

Acq: 5 Oct 2018 18:43

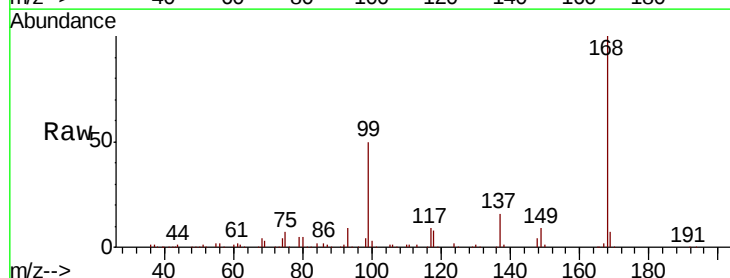
Tgt Ion: 117 Resp: 56509

Ion Ratio Lower Upper

117 100

119 4.2 77.0 115.6#

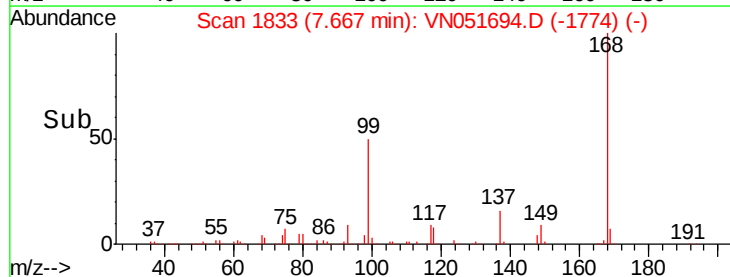
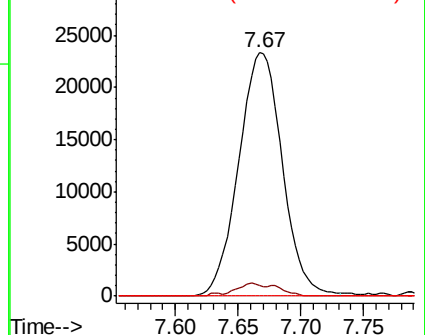
121 0.0 25.0 37.6#

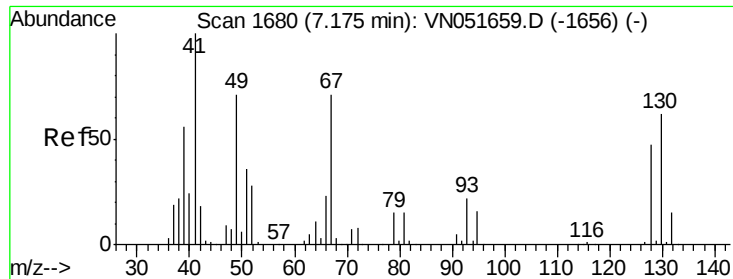


Abundance Ion 116.80 (116.50 to 117.50): VN051659.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN051659.D (-1848) (-)

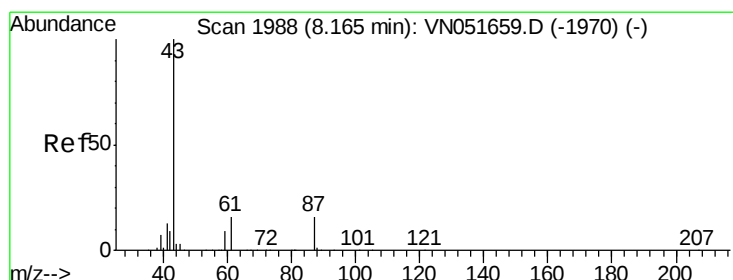
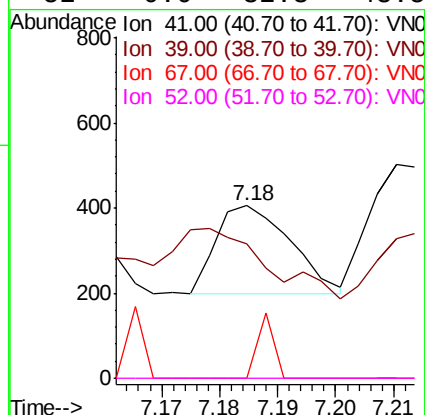
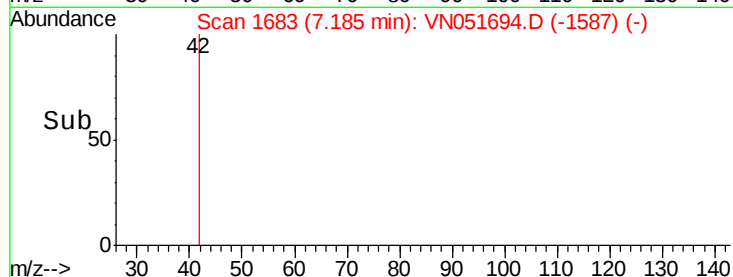
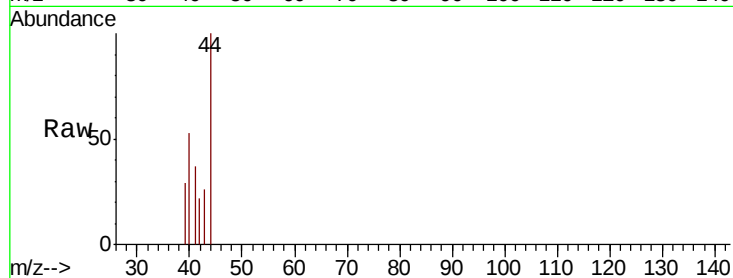
Ion 120.80 (120.50 to 121.50): VN051659.D (-1848) (-)





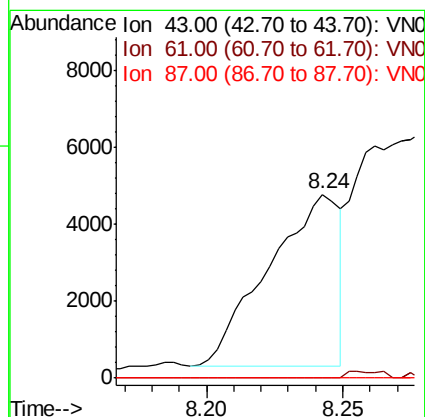
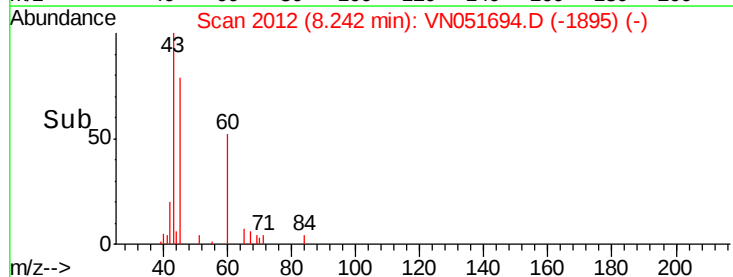
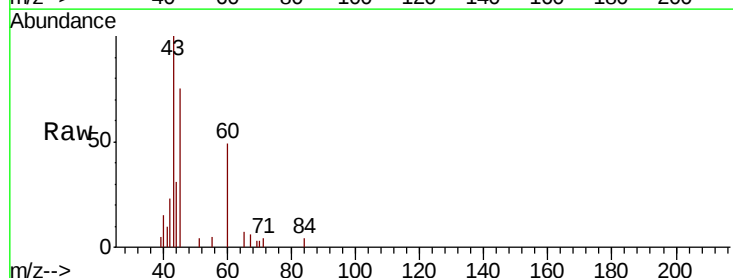
#41
Methacrylonitrile
Concen: Below Cal
RT: 7.18 min Scan# 1683
Delta R.T. 0.01 min
Lab File: VN051694.D
Acq: 5 Oct 2018 18:43

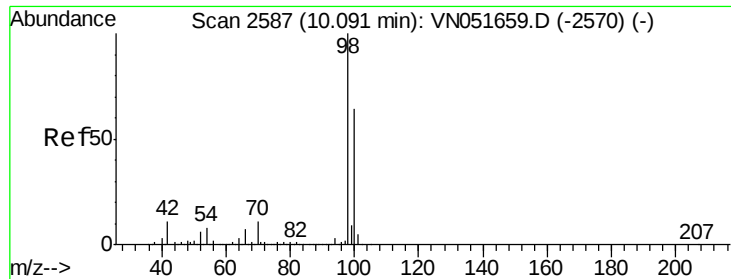
Tot Ion: 41 Resp: 185
Ion Ratio Lower Upper
41 100
39 95.1 53.9 80.9#
67 16.2 78.1 117.1#
52 0.0 32.3 48.5#



#43
Isopropyl Acetate
Concen: 0.797 ug/l
RT: 8.24 min Scan# 2012
Delta R.T. 0.08 min
Lab File: VN051694.D
Acq: 5 Oct 2018 18:43

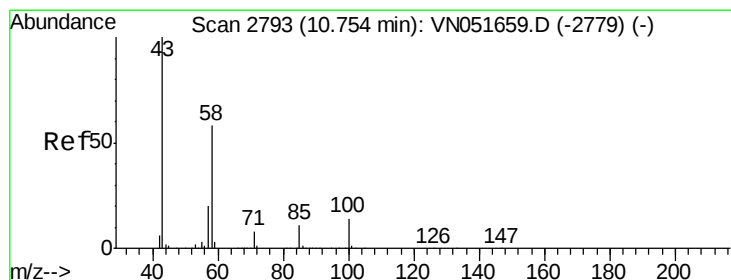
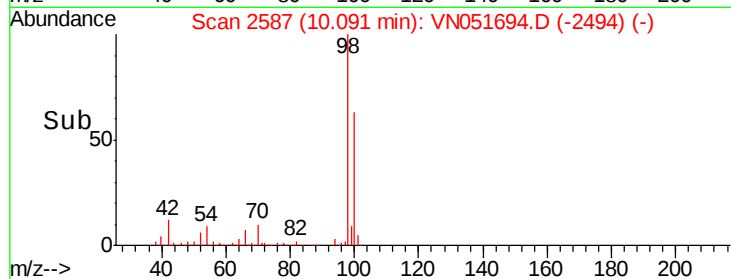
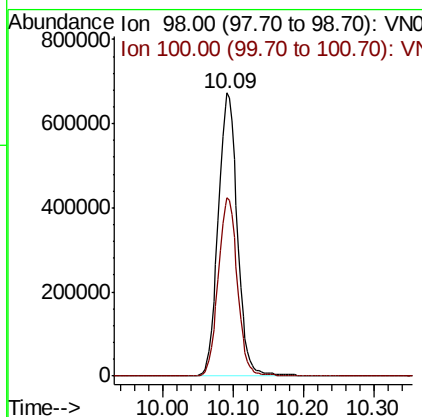
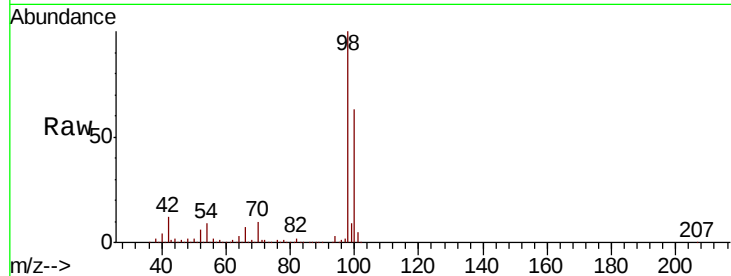
Tgt Ion: 43 Resp: 8176
Ion Ratio Lower Upper
43 100
61 1.9 15.8 23.6#
87 0.0 12.6 19.0#





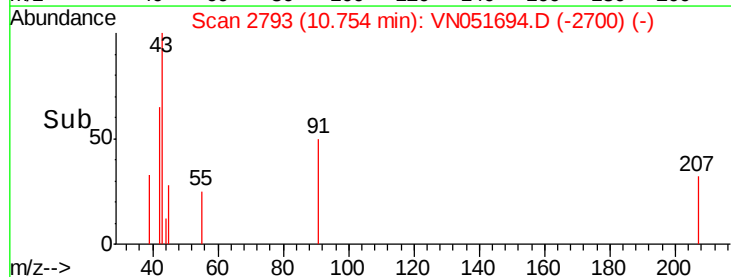
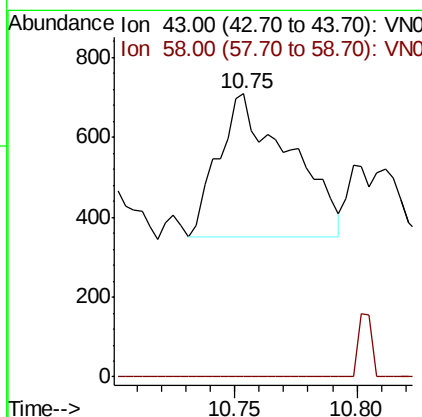
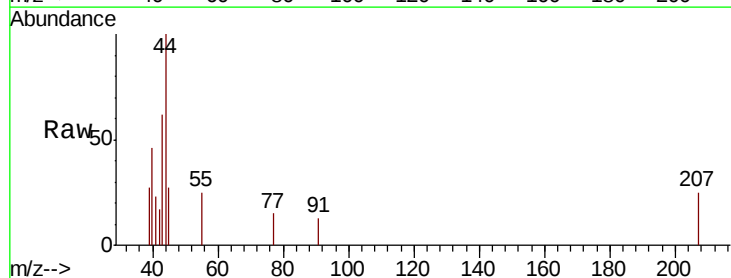
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051694.D
Acq: 5 Oct 2018 18:43

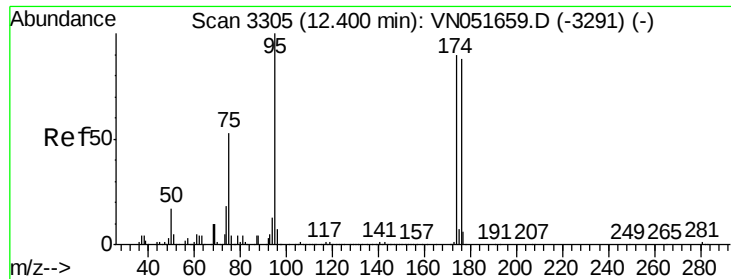
Tot Ion: 98 Resp: 1271457
Ion Ratio Lower Upper
98 100
100 62.8 51.5 77.3



#59
2-Hexanone
Concen: 0.207 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. -0.00 min
Lab File: VN051694.D
Acq: 5 Oct 2018 18:43

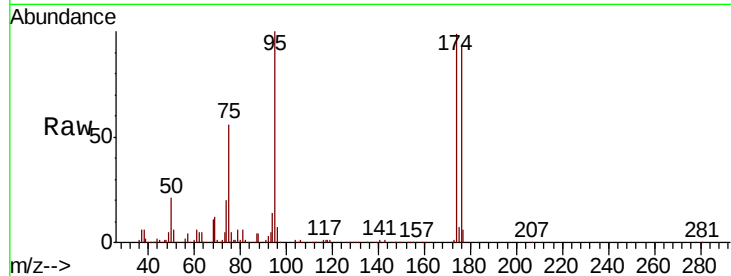
Tgt Ion: 43 Resp: 731
Ion Ratio Lower Upper
43 100
58 0.0 28.8 86.4#



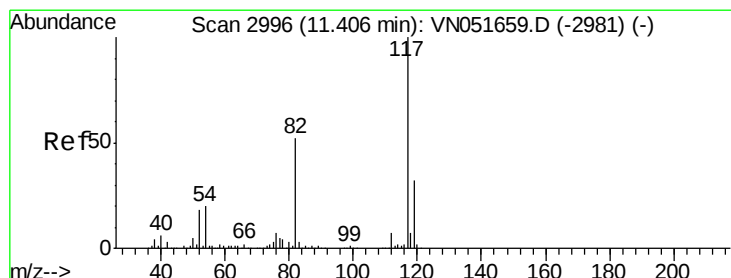
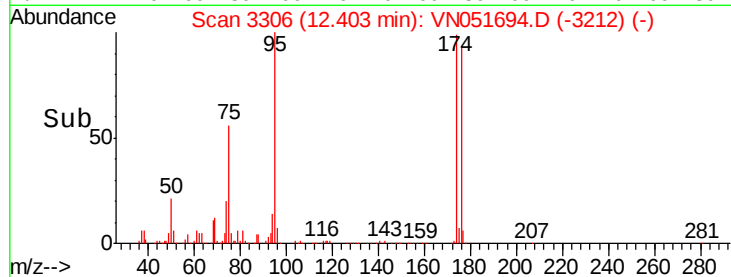
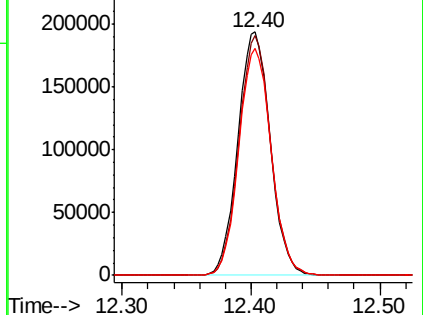


#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051694.D
Acq: 5 Oct 2018 18:43

Tot Ion: 95 Resp: 337799
Ion Ratio Lower Upper
95 100
174 96.8 0.0 182.8
176 93.2 0.0 176.4

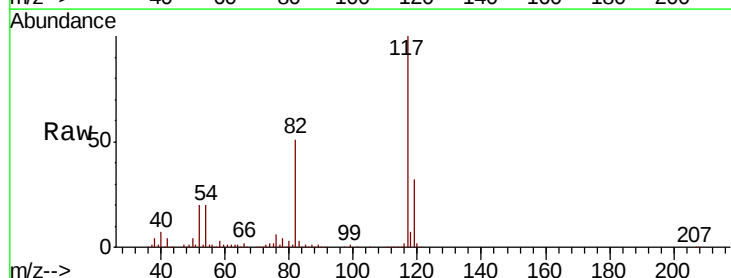


Abundance Ion 94.90 (94.60 to 95.60): VN0
Ion 173.80 (173.50 to 174.50): VN0
Ion 175.80 (175.50 to 176.50): VN0

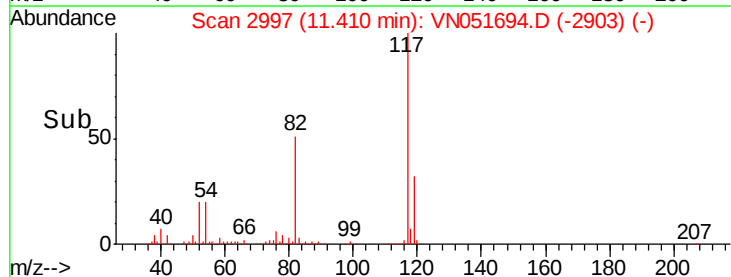
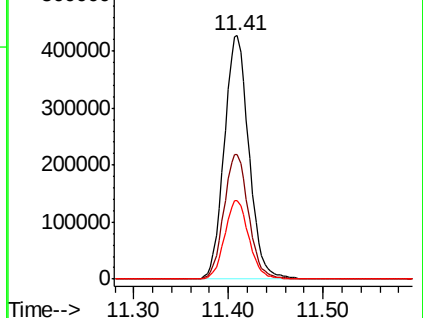


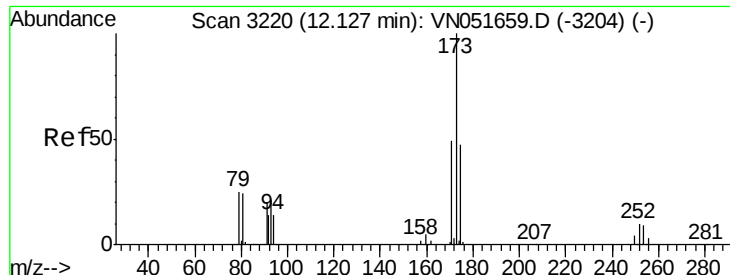
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051694.D
Acq: 5 Oct 2018 18:43

Tgt Ion: 117 Resp: 773583
Ion Ratio Lower Upper
117 100
82 51.0 41.3 61.9
119 32.3 25.9 38.9



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





#71

Bromoform

Concen: 0.572 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051694.D

Acq: 5 Oct 2018 18:43

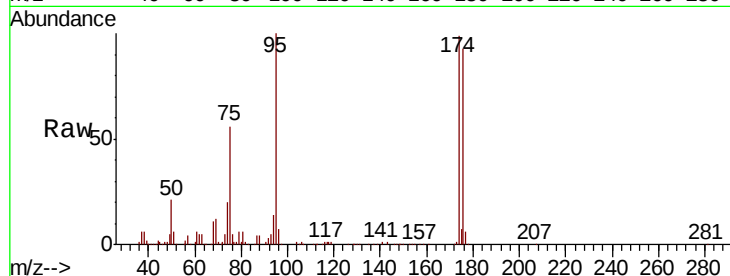
Tot Ion:173 Resp: 3263

Ion Ratio Lower Upper

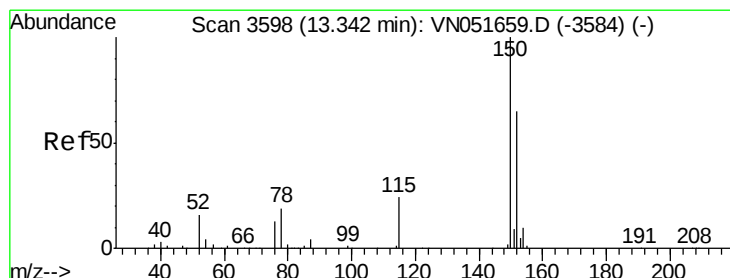
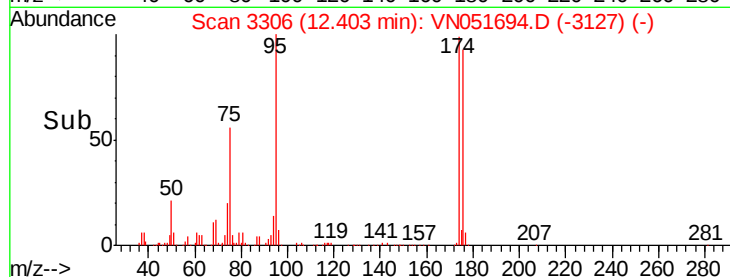
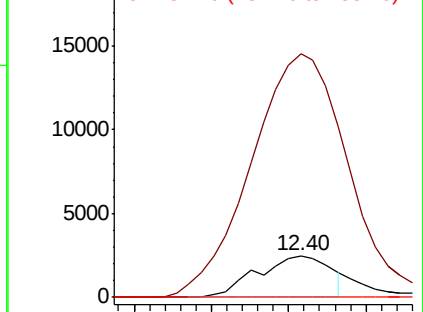
173 100

175 654.2 24.0 72.0#

254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051694.D

Acq: 5 Oct 2018 18:43

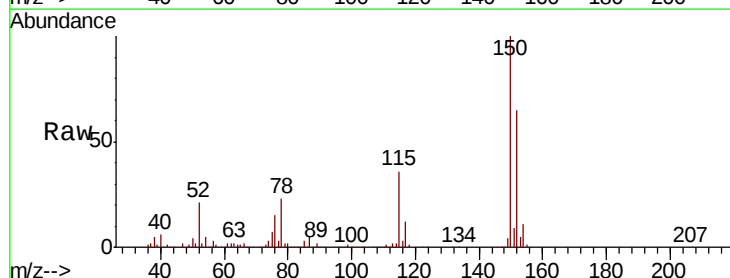
Tgt Ion:152 Resp: 273800

Ion Ratio Lower Upper

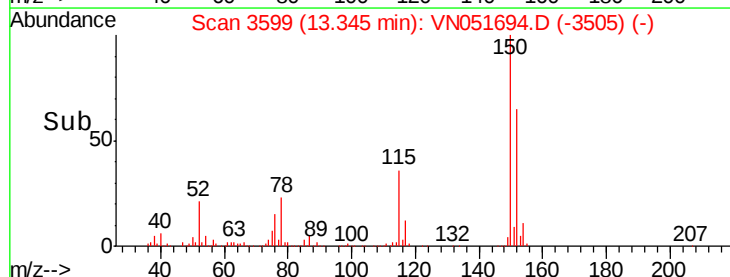
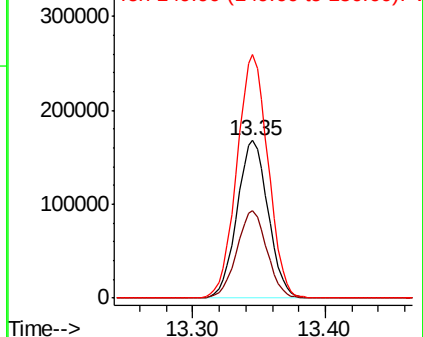
152 100

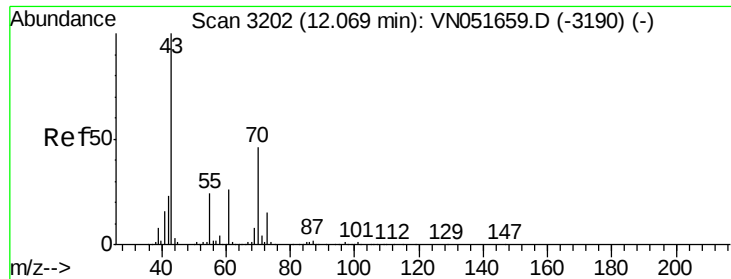
115 53.8 28.6 85.8

150 154.8 0.0 352.4



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-amvl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3203

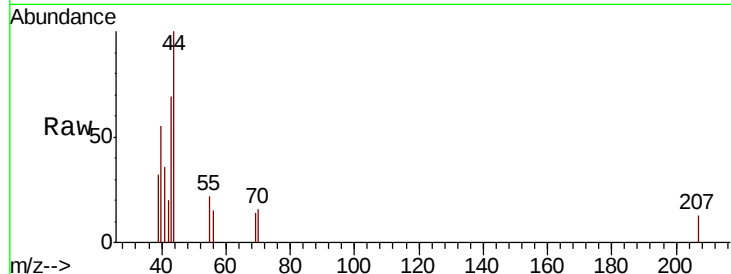
Delta R.T. 0.00 min

Lab File: VN051694.D

Acq: 5 Oct 2018 18:43

Tot Ion: 43 Resp: 525

Ion	Ratio	Lower	Upper
43	100		
70	25.1	37.1	55.7#
55	20.4	19.1	28.7
61	0.0	20.8	31.2#



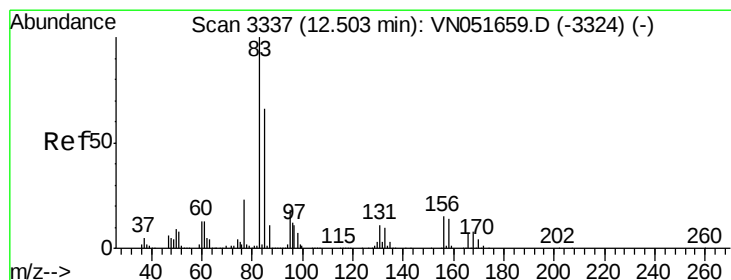
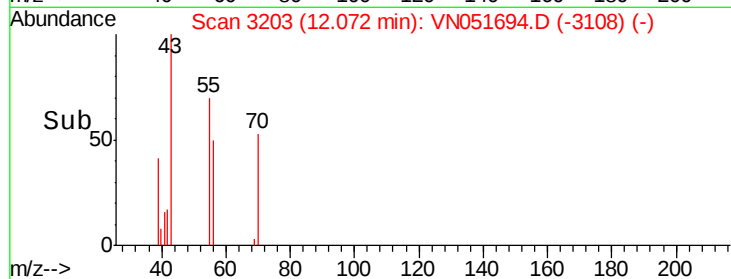
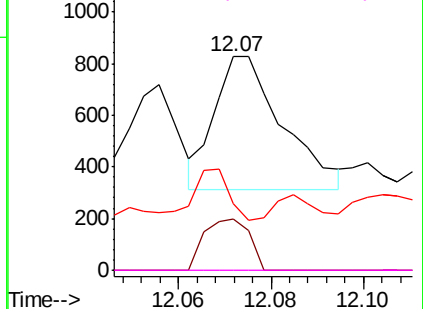
Abundance

Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3337

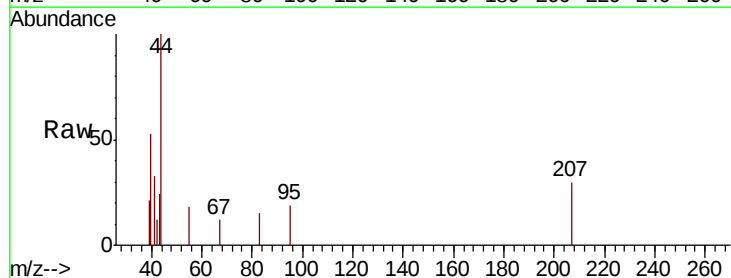
Delta R.T. 0.00 min

Lab File: VN051694.D

Acq: 5 Oct 2018 18:43

Tgt Ion: 83 Resp: 104

Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.7	17.1#
85	0.0	33.0	98.9#

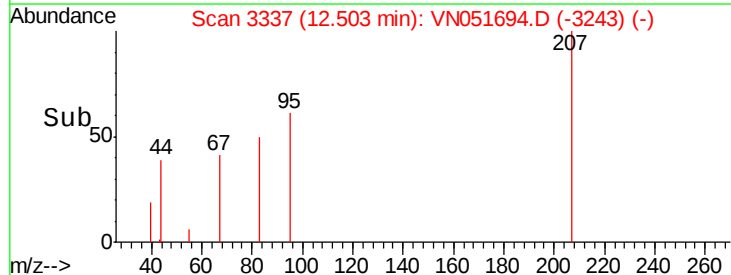
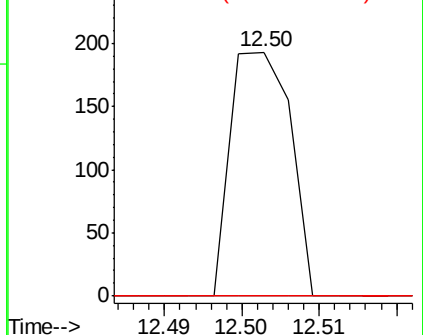


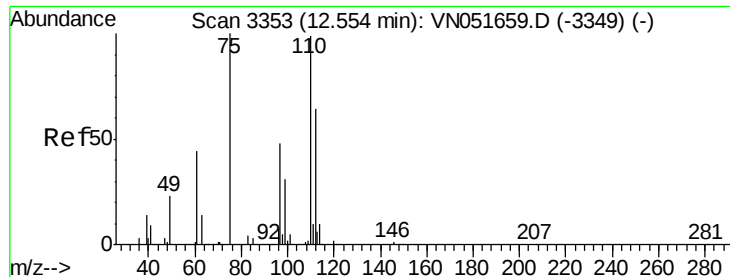
Abundance

Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 55.031 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051694.D

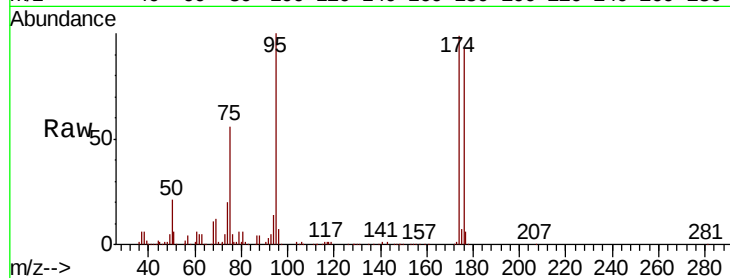
Acq: 5 Oct 2018 18:43

Tot Ion: 75 Resp: 185814

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

12.40

100000

80000

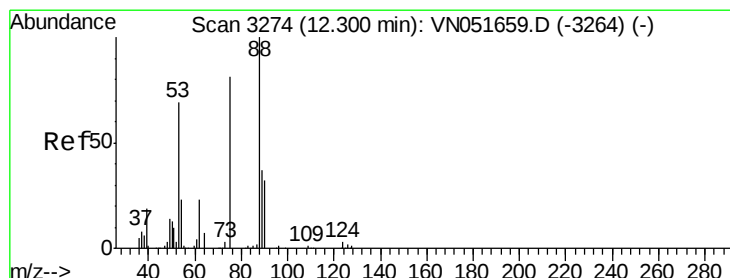
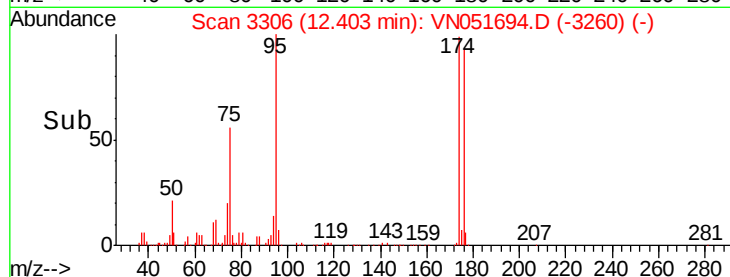
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 124.749 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051694.D

Acq: 5 Oct 2018 18:43

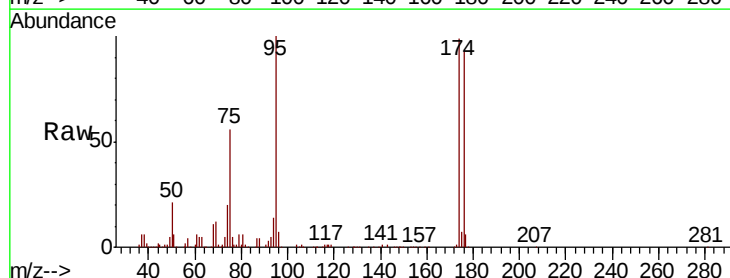
Tgt Ion: 75 Resp: 185814

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

89 0.0 39.4 59.2#



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

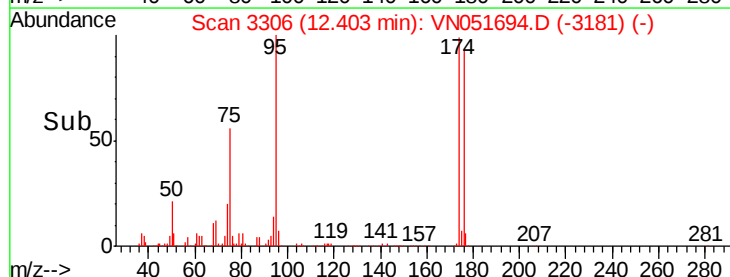
150000

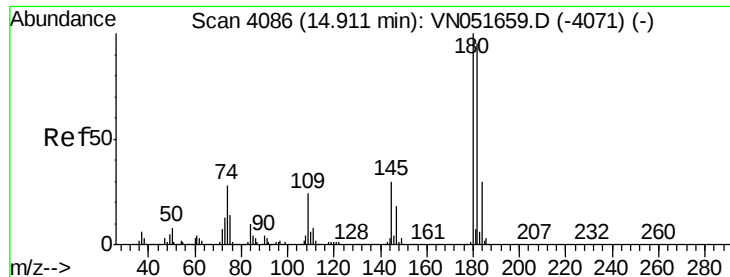
100000

50000

0

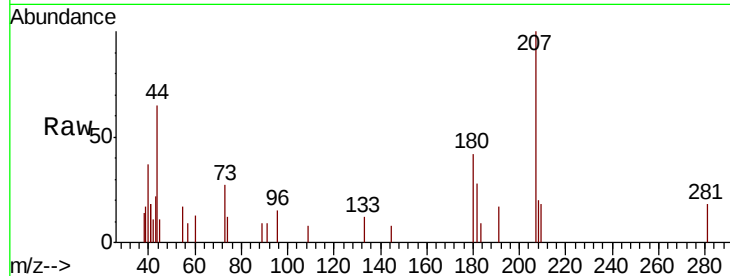
Time--> 12.30 12.40 12.50



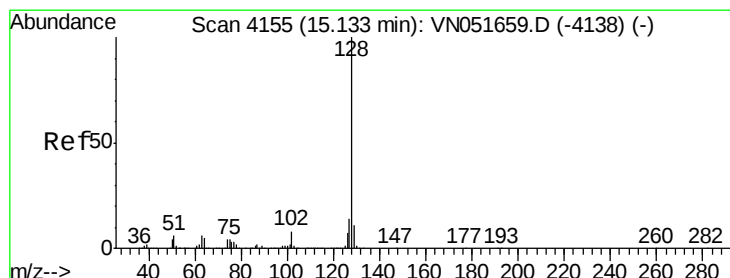
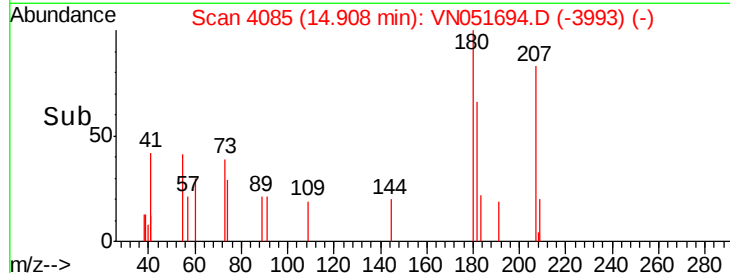
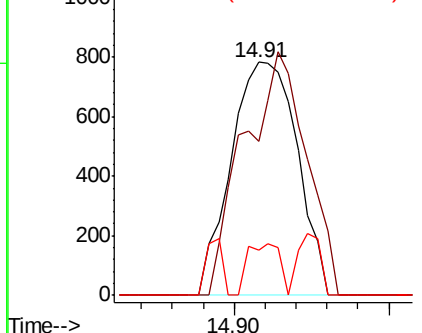


#93
 1,2,4-Trichlorobenzene
 Concen: 0.265 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051694.D
 Acq: 5 Oct 2018 18:43

Tot Ion:180 Resp: 1165
 Ion Ratio Lower Upper
 180 100
 182 98.4 47.7 143.1
 145 10.8 15.3 45.9#

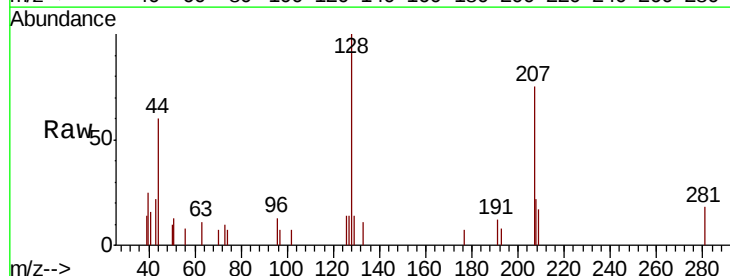


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

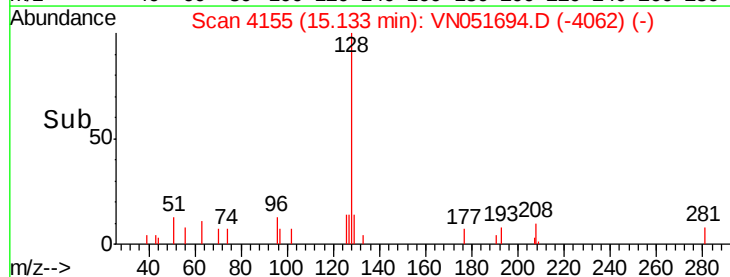
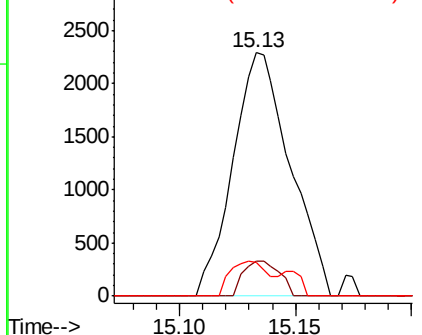


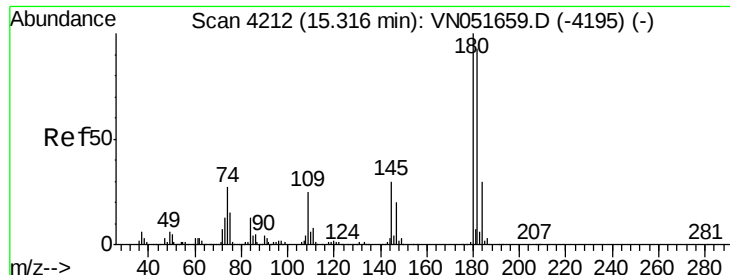
#95
 Naphthalene
 Concen: 0.414 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN051694.D
 Acq: 5 Oct 2018 18:43

Tgt Ion:128 Resp: 3936
 Ion Ratio Lower Upper
 128 100
 127 9.0 10.6 15.8#
 129 9.0 9.0 13.6



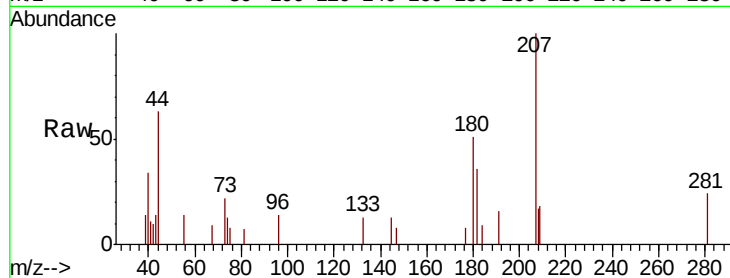
Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.335 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. -0.00 min
 Lab File: VN051694.D
 Acq: 5 Oct 2018 18:43

Tot Ion:	180	Resp:	1453
Ion	Ratio	Lower	Upper
180	100		
182	90.9	47.3	141.8
145	25.0	15.6	46.8



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

