

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100618\
 Data File : VN051716.D
 Acq On : 6 Oct 2018 3:45
 Operator : MD\SY
 Sample : J5165-05 40X
 Misc : 6.24u/5.00mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 46 Sample Multiplier: 28

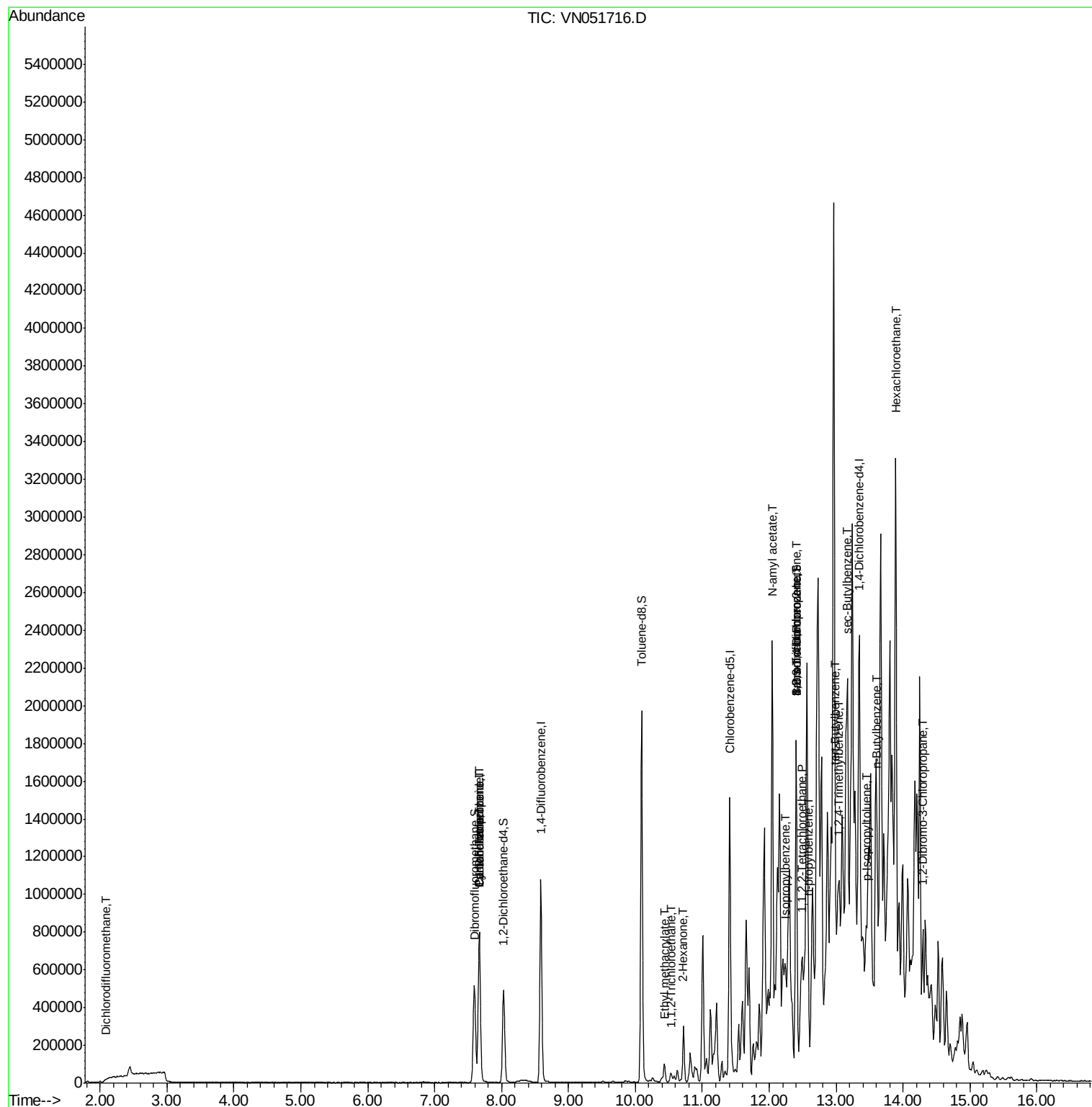
Quant Time: Oct 06 04:13:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 05 02:22:33 2018
 Response via : Initial Calibration

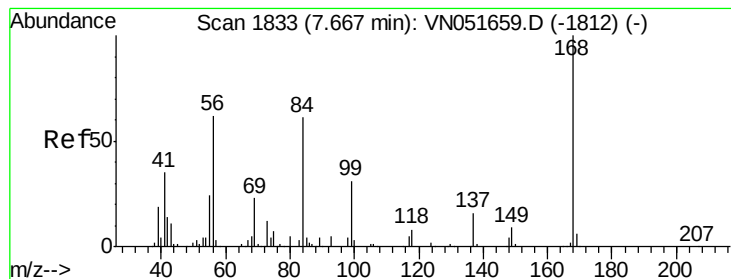
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	695488	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1010275	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	896684	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	524153	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	412340	44.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.76%	
35) Dibromofluoromethane	7.59	113	374361	47.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.86%	
50) Toluene-d8	10.09	98	1414880	48.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.12%	
62) 4-Bromofluorobenzene	12.40	95	455643	44.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.34%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.08	85	147	1.166	ug/l #	42
7) Trichlorofluoromethane	2.93	101	102	Below Cal	#	1
16) Acetone	3.80	43	409	Below Cal	#	44
31) Cyclohexane	7.66	56	14490	1.162	ug/l #	33
36) 1,1-Dichloropropene	7.67	75	46918	4.443	ug/l #	49
38) Carbon Tetrachloride	7.67	117	62196	4.908	ug/l #	15
41) Methacrylonitrile	7.17	41	474	Below Cal	#	13
55) 1,1,2-Trichloroethane	10.53	97	19116	2.577	ug/l #	21
56) Ethyl methacrylate	10.43	69	9661	1.030	ug/l #	1
59) 2-Hexanone	10.72	43	109364	27.676	ug/l #	27
71) Bromoform	12.40	173	3738	0.565	ug/l #	1
73) Isopropylbenzene	12.25	105	12469	0.279	ug/l	91
74) N-amyl acetate	12.04	43	469876	50.944	ug/l #	54
75) 1,1,2,2-Tetrachloroethane	12.48	83	35777	0.281	ug/l #	61
76) 1,2,3-Trichloropropane	12.40	75	240980	35.839	ug/l #	100
78) n-propylbenzene	12.59	91	86706	1.779	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	240980	84.511	ug/l #	17
83) tert-Butylbenzene	12.99	119	65429	1.939	ug/l	91
84) 1,2,4-Trimethylbenzene	13.04	105	40530	1.075	ug/l	96
85) sec-Butylbenzene	13.17	105	626722	14.043	ug/l #	75
86) p-Isopropyltoluene	13.44	119	141741	3.582	ug/l	93
89) n-Butylbenzene	13.62	91	351477	11.235	ug/l #	73
90) Hexachloroethane	13.89	117	130221	16.496	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.29	75	1392	0.887	ug/l #	1

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

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QLast Update : Fri Oct 05 02:22:33 2018
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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: VN051716.D

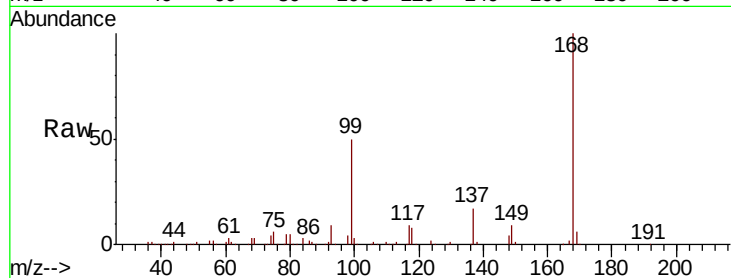
Acq: 6 Oct 2018 3:45

Tot Ion: 168 Resp: 695488

Ion Ratio Lower Upper

168 100

99 49.8 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

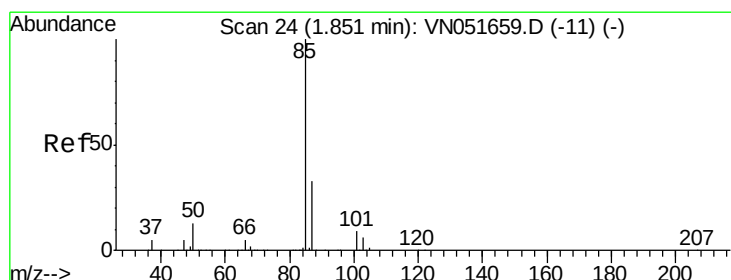
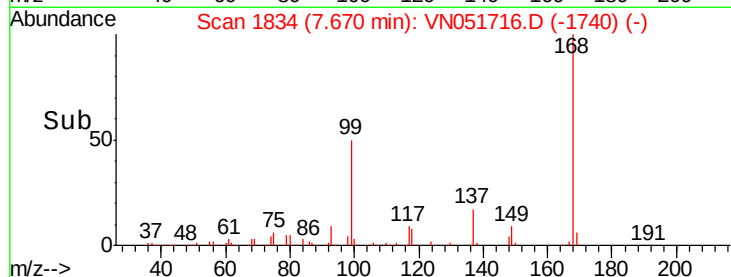
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.166 ug/l

RT: 2.08 min Scan# 96

Delta R.T. 0.23 min

Lab File: VN051716.D

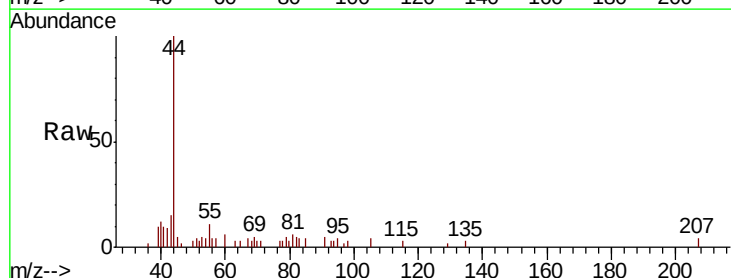
Acq: 6 Oct 2018 3:45

Tgt Ion: 85 Resp: 147

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

2.08

250

200

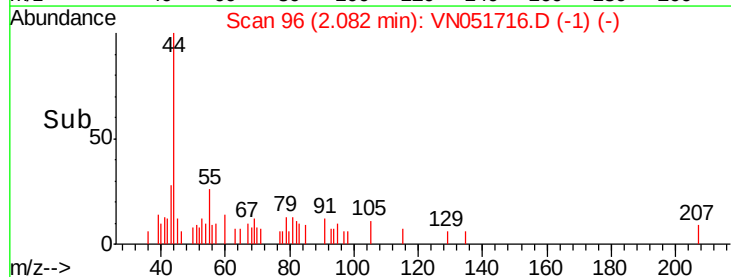
150

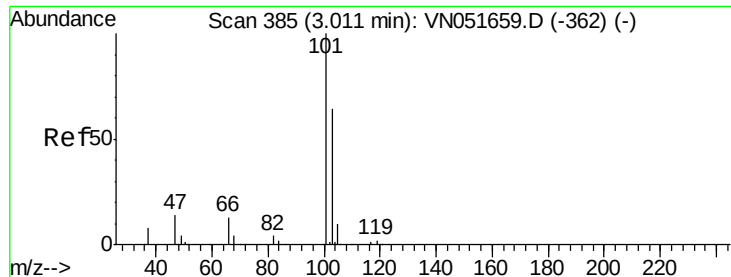
100

50

0

Time-->

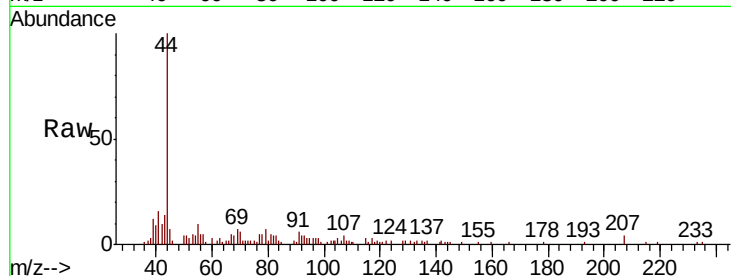




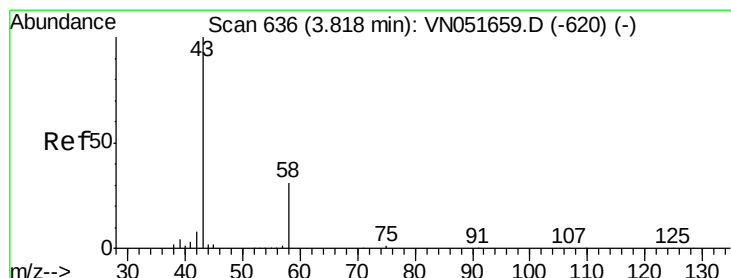
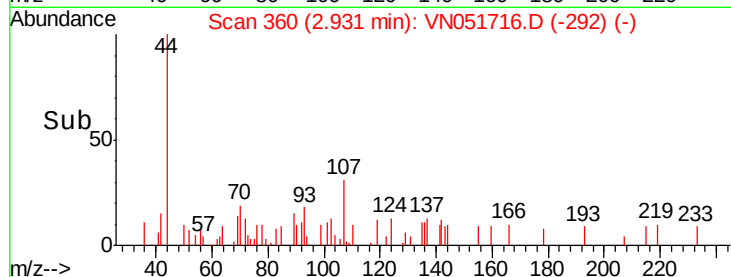
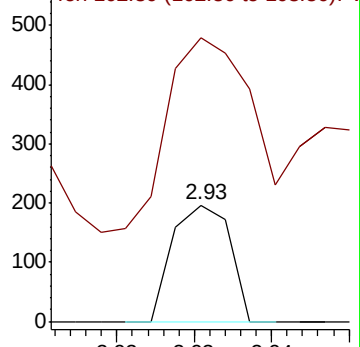
#7

Trichlorofluoromethane
Concen: Below Cal
RT: 2.93 min Scan# 360
Delta R.T. -0.08 min
Lab File: VN051716.D
Acq: 6 Oct 2018 3:45

Tot Ion	Ratio	Lower	Upper
101	100		
103	163.8	51.1	76.7#



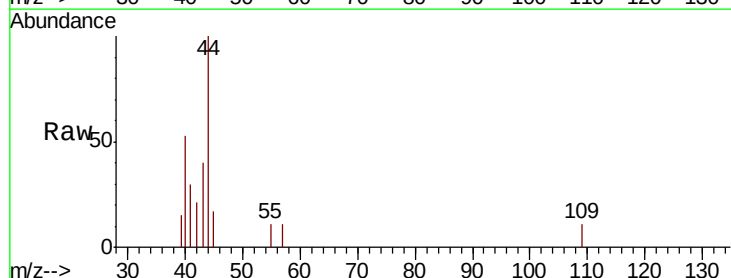
Abundance Ion 100.90 (100.60 to 101.60): V



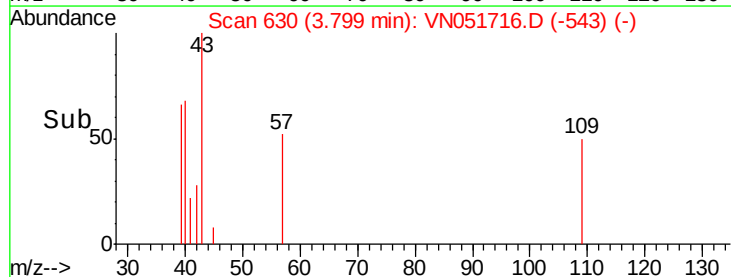
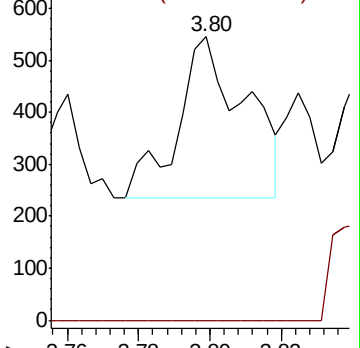
#16

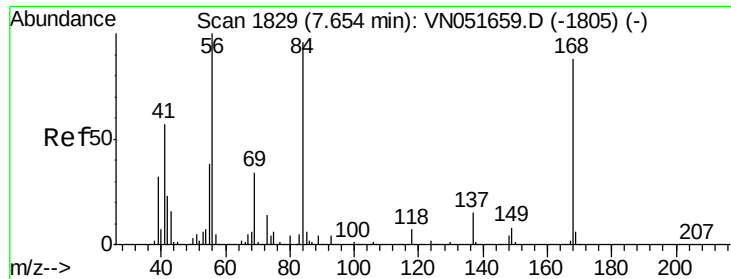
Acetone
Concen: Below Cal
RT: 3.80 min Scan# 630
Delta R.T. -0.02 min
Lab File: VN051716.D
Acq: 6 Oct 2018 3:45

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	24.3	36.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0





#31

Cvclohexane

Concen: 1.162 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051716.D

Acq: 6 Oct 2018 3:45

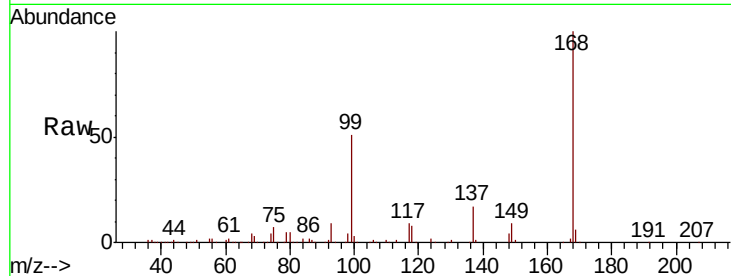
Tot Ion: 56 Resp: 14490

Ion Ratio Lower Upper

56 100

69 141.6 27.5 41.3#

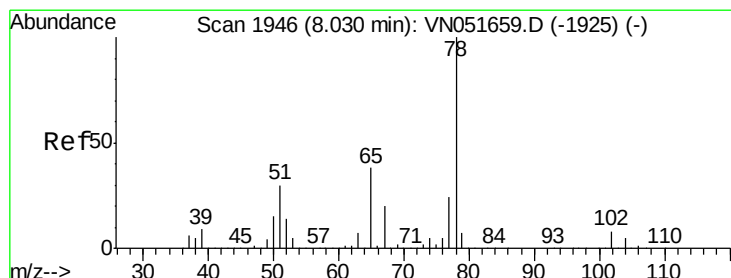
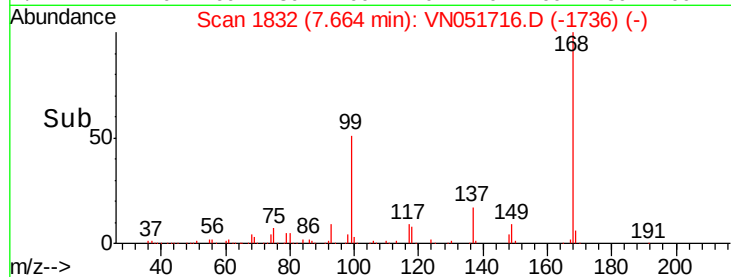
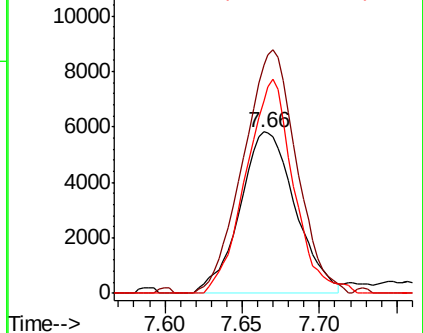
84 119.5 76.7 115.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. -0.00 min

Lab File: VN051716.D

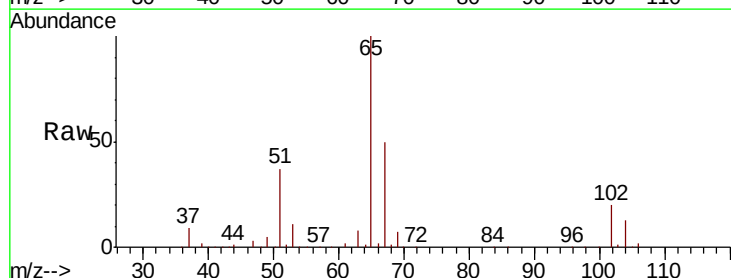
Acq: 6 Oct 2018 3:45

Tgt Ion: 65 Resp: 412340

Ion Ratio Lower Upper

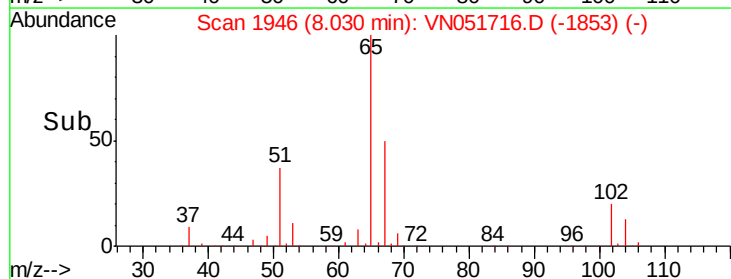
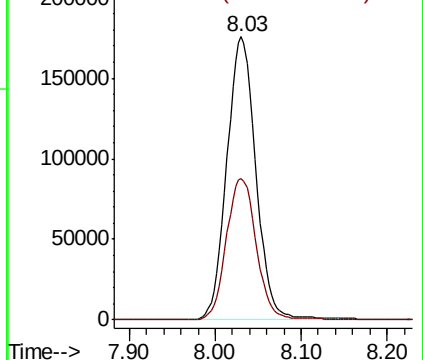
65 100

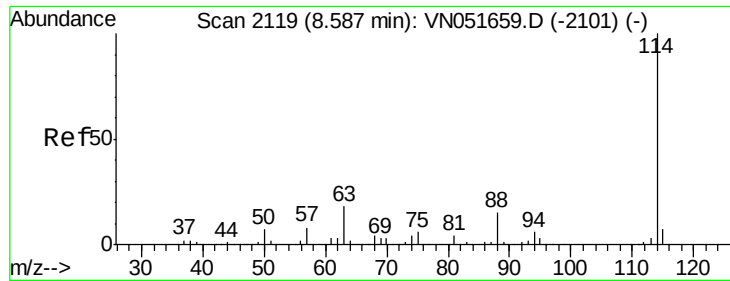
67 51.9 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

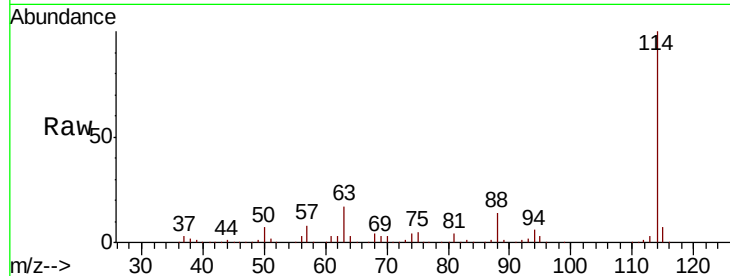




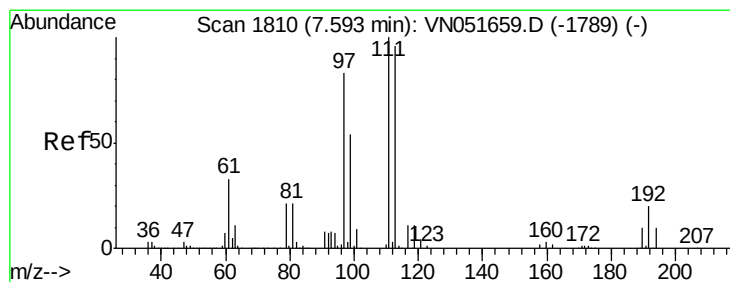
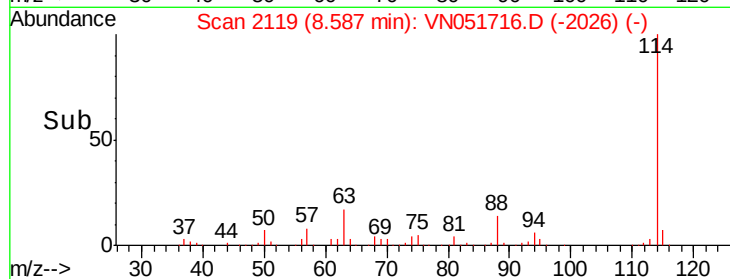
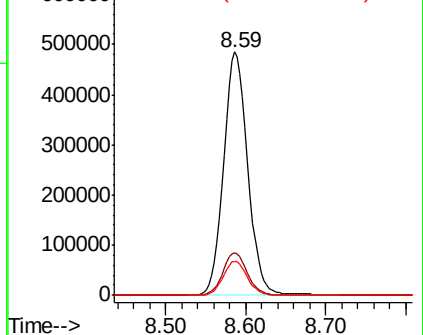
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051716.D
 Acq: 6 Oct 2018 3:45

Tot Ion:114 Resp: 1010275

Ion	Ratio	Lower	Upper
114	100		
63	17.4	0.0	36.2
88	14.0	0.0	30.2



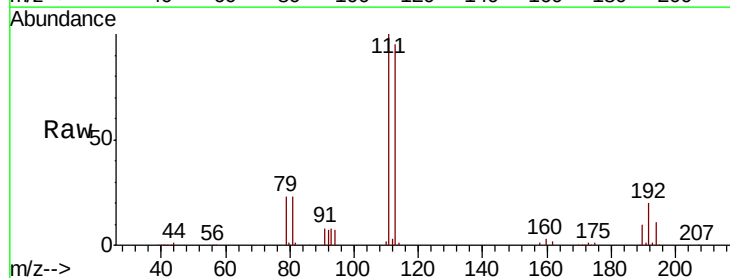
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN



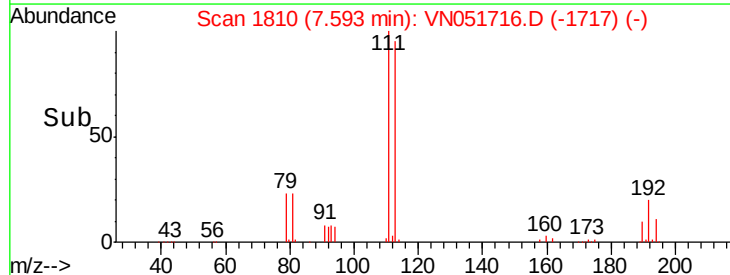
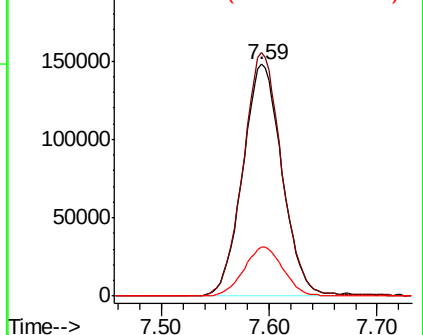
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051716.D
 Acq: 6 Oct 2018 3:45

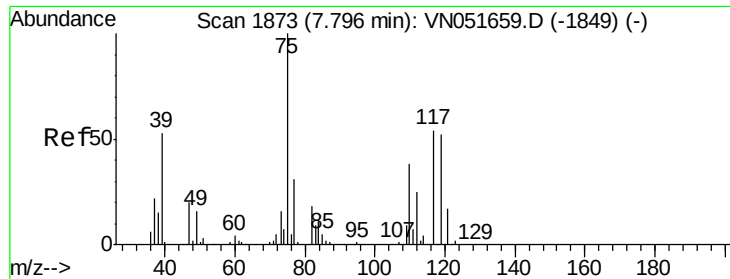
Tgt Ion:113 Resp: 374361

Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.8	122.8
192	21.2	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: 4.443 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.13 min

Lab File: VN051716.D

Acq: 6 Oct 2018 3:45

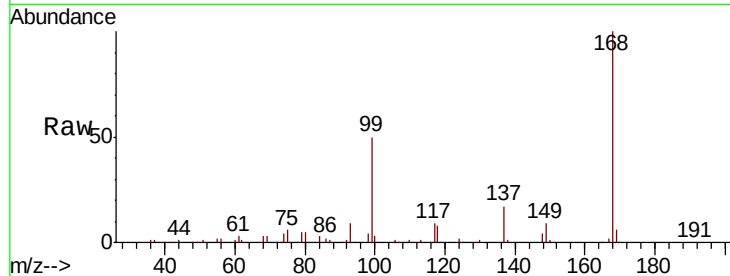
Tot Ion: 75 Resp: 46918

Ion Ratio Lower Upper

75 100

110 10.5 19.3 57.8#

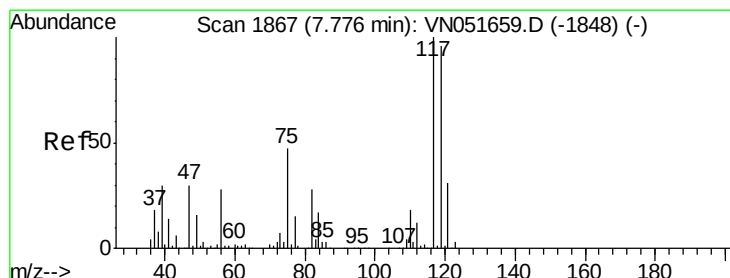
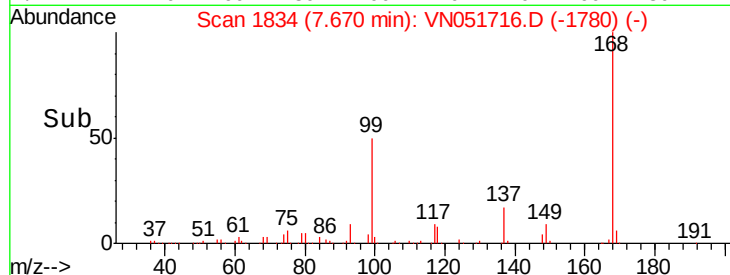
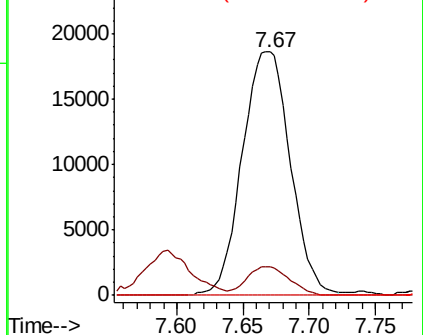
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VN051716.D (-1780) (-)

Ion 109.90 (109.60 to 110.60): VN051716.D (-1780) (-)

Ion 76.90 (76.60 to 77.60): VN051716.D (-1780) (-)



#38

Carbon Tetrachloride

Concen: 4.908 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051716.D

Acq: 6 Oct 2018 3:45

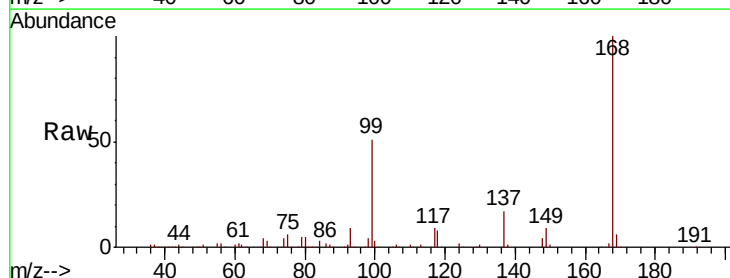
Tgt Ion: 117 Resp: 62196

Ion Ratio Lower Upper

117 100

119 3.9 77.0 115.6#

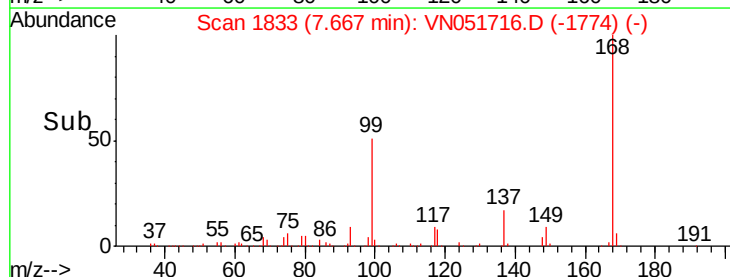
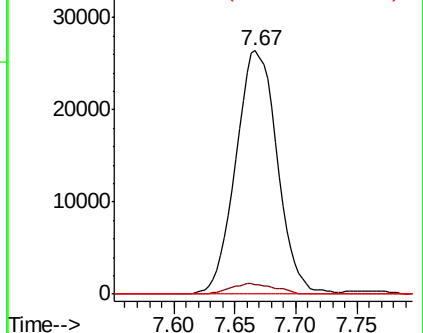
121 0.0 25.0 37.6#

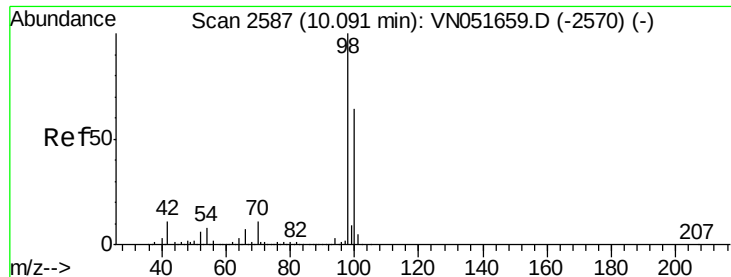


Abundance Ion 116.80 (116.50 to 117.50): VN051716.D (-1774) (-)

Ion 118.80 (118.50 to 119.50): VN051716.D (-1774) (-)

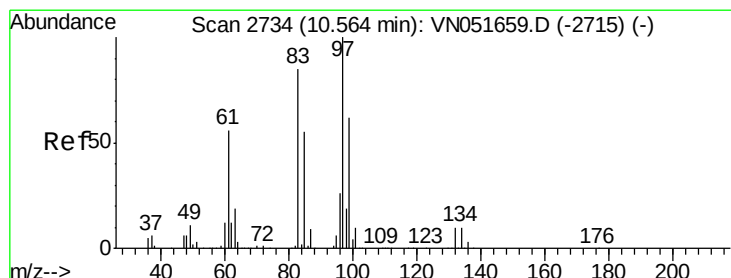
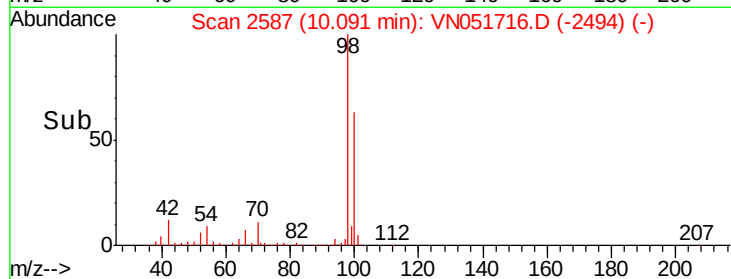
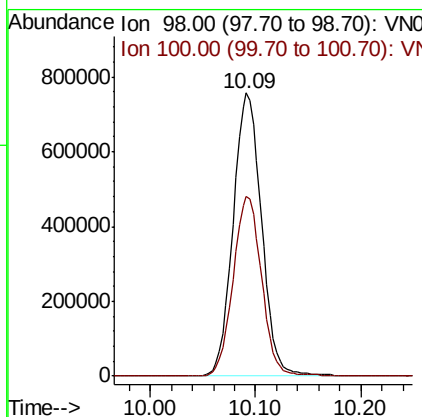
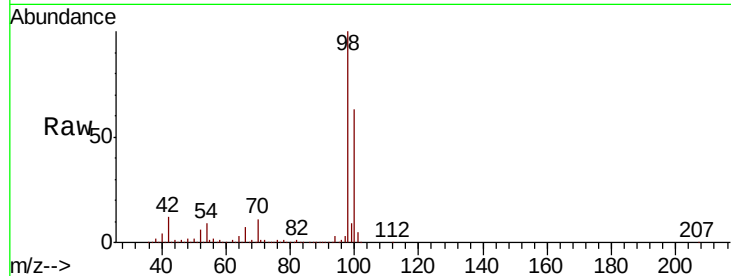
Ion 120.80 (120.50 to 121.50): VN051716.D (-1774) (-)





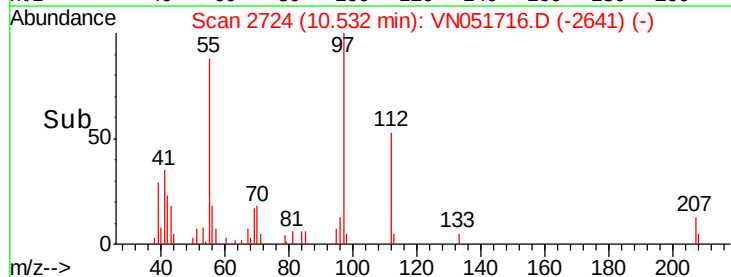
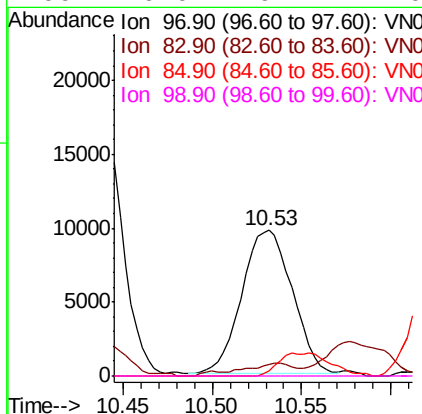
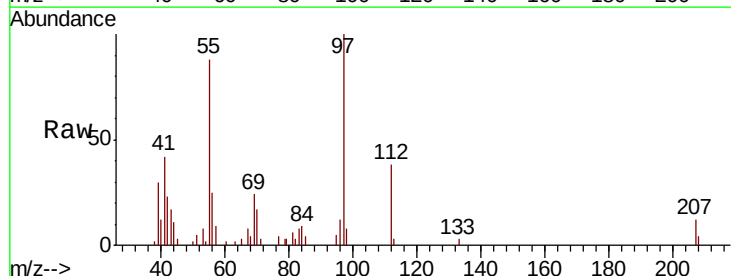
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051716.D
Acq: 6 Oct 2018 3:45

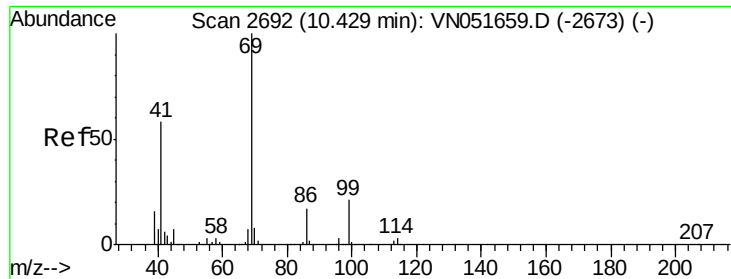
Tot Ion: 98 Resp: 1414880
Ion Ratio Lower Upper
98 100
100 63.6 51.5 77.3



#55
1,1,2-Trichloroethane
Concen: 2.577 ug/l
RT: 10.53 min Scan# 2724
Delta R.T. -0.03 min
Lab File: VN051716.D
Acq: 6 Oct 2018 3:45

Tgt Ion: 97 Resp: 19116
Ion Ratio Lower Upper
97 100
83 8.2 68.1 102.1#
85 3.8 43.6 65.4#
99 0.0 49.4 74.0#





#56

Ethyl methacrylate

Concen: 1.030 ug/l

RT: 10.43 min Scan# 2693

Delta R.T. 0.00 min

Lab File: VN051716.D

Acq: 6 Oct 2018 3:45

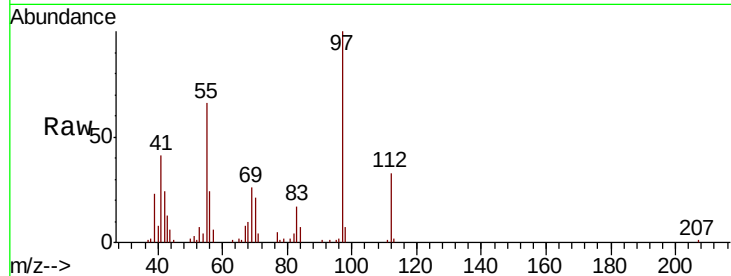
Tot Ion: 69 Resp: 9661

Ion Ratio Lower Upper

69 100

41 159.2 46.4 69.6#

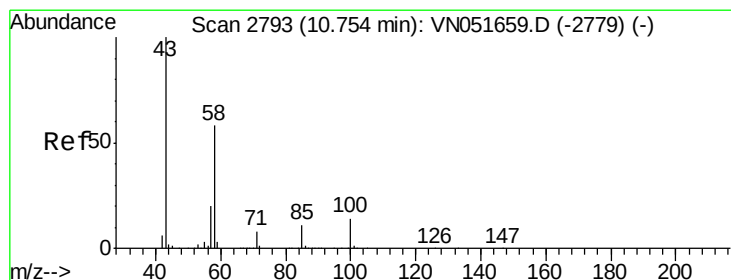
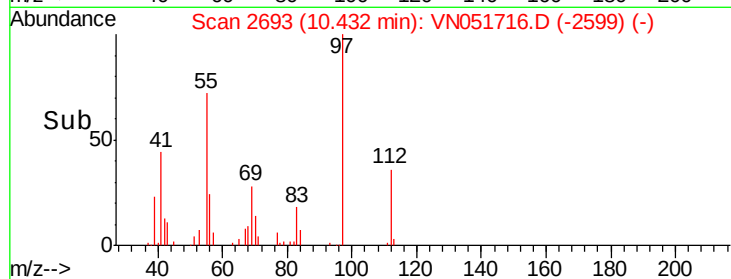
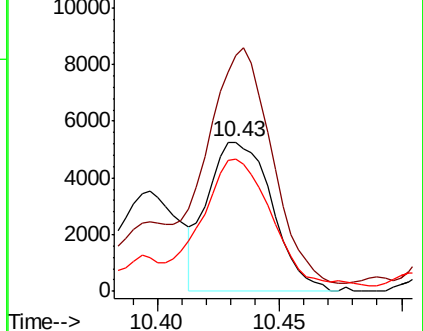
39 91.6 32.4 48.6#



Abundance Ion 69.00 (68.70 to 69.70): VN051716.D (-2599) (-)

Ion 41.00 (40.70 to 41.70): VN051716.D (-2599) (-)

Ion 39.00 (38.70 to 39.70): VN051716.D (-2599) (-)



#59

2-Hexanone

Concen: 27.676 ug/l

RT: 10.72 min Scan# 2782

Delta R.T. -0.04 min

Lab File: VN051716.D

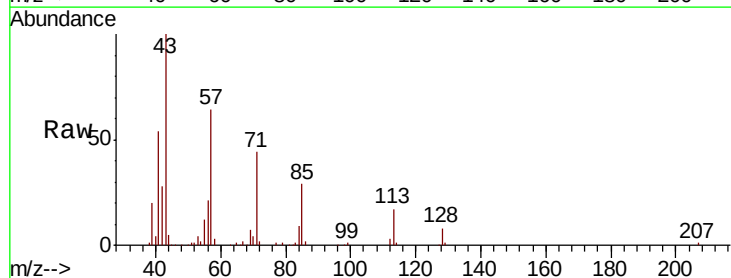
Acq: 6 Oct 2018 3:45

Tgt Ion: 43 Resp: 109364

Ion Ratio Lower Upper

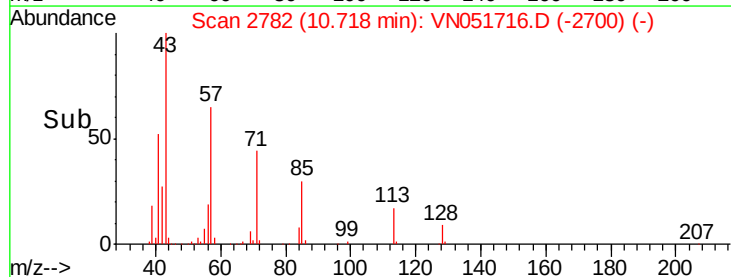
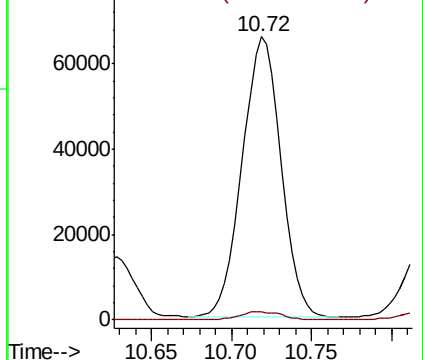
43 100

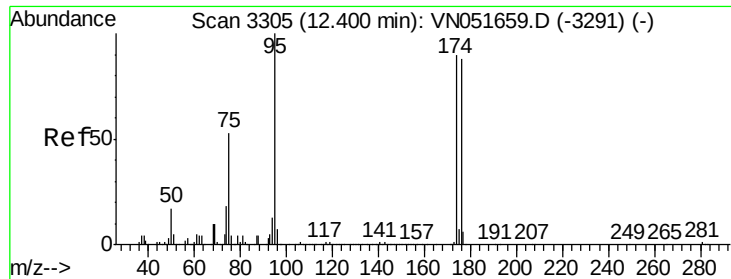
58 3.2 28.8 86.4#



Abundance Ion 43.00 (42.70 to 43.70): VN051716.D (-2700) (-)

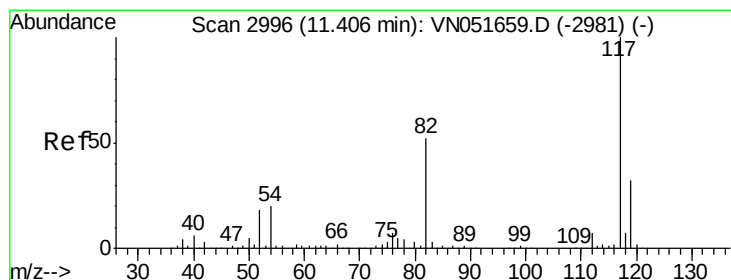
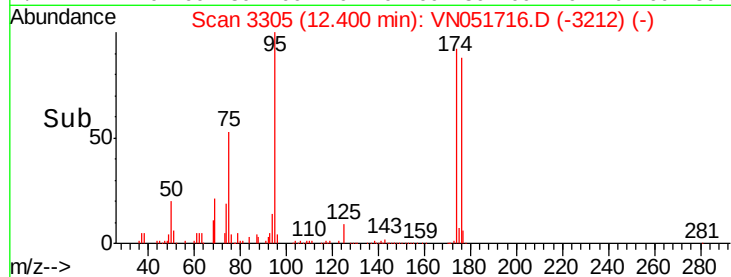
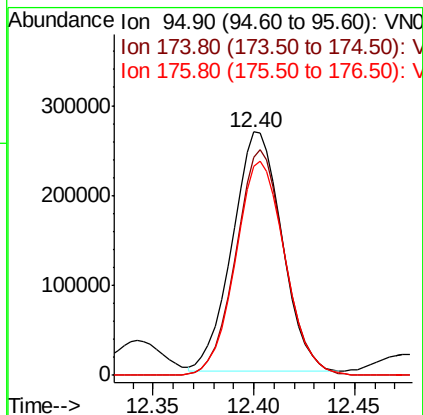
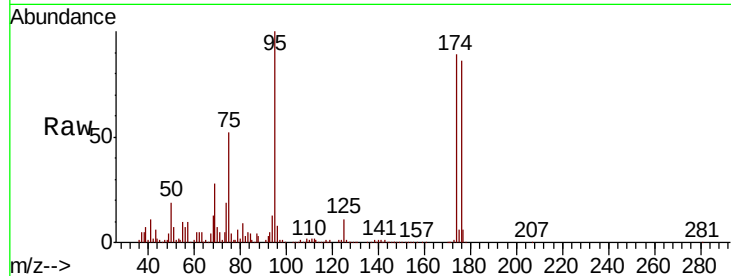
Ion 58.00 (57.70 to 58.70): VN051716.D (-2700) (-)





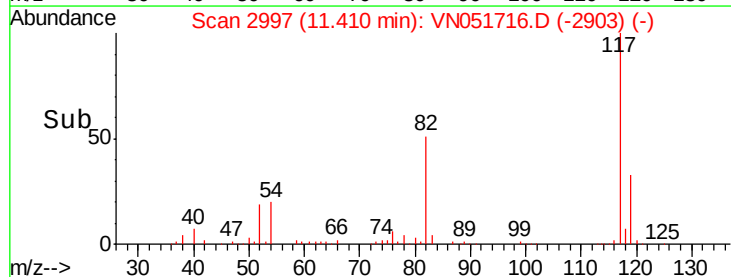
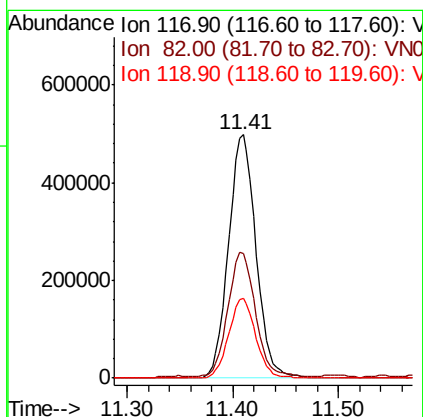
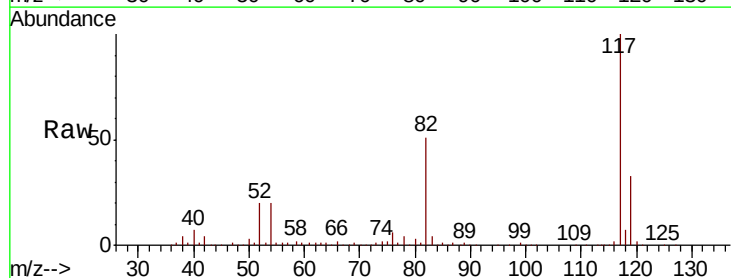
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051716.D
Acq: 6 Oct 2018 3:45

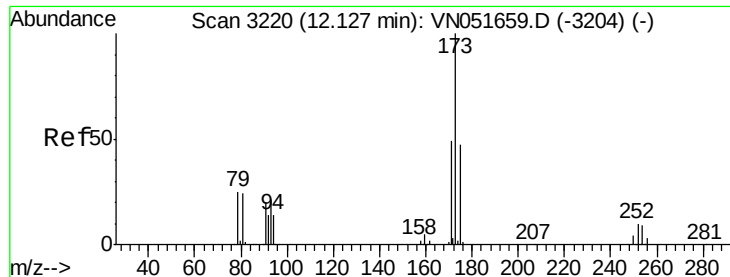
Tot Ion: 95 Resp: 455643
Ion Ratio Lower Upper
95 100
174 92.9 0.0 182.8
176 89.9 0.0 176.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051716.D
Acq: 6 Oct 2018 3:45

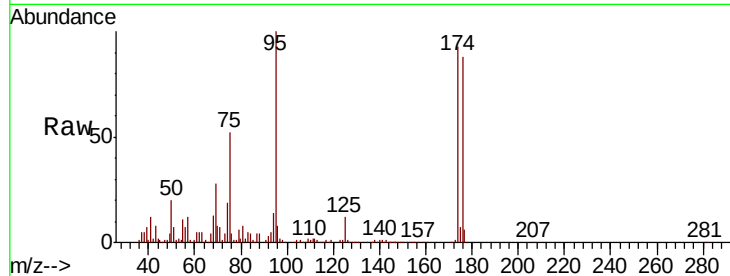
Tgt Ion: 117 Resp: 896684
Ion Ratio Lower Upper
117 100
82 50.4 41.3 61.9
119 32.7 25.9 38.9



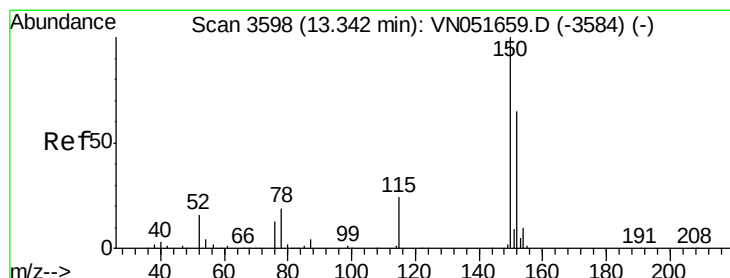
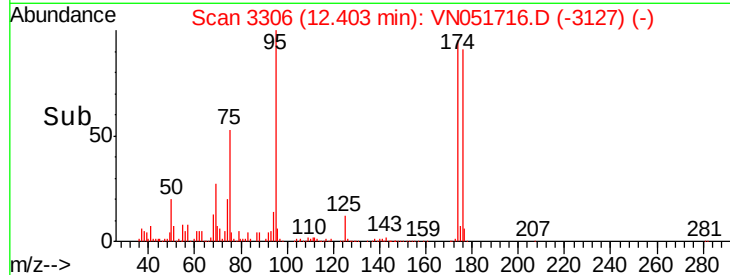
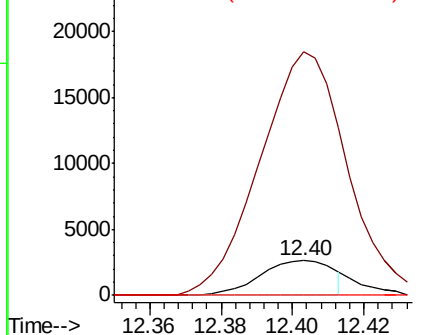


#71
Bromoform
Concen: 0.565 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051716.D
Acq: 6 Oct 2018 3:45

Tot Ion:173 Resp: 3738
Ion Ratio Lower Upper
173 100
175 705.3 24.0 72.0#
254 0.0 0.1 0.1#

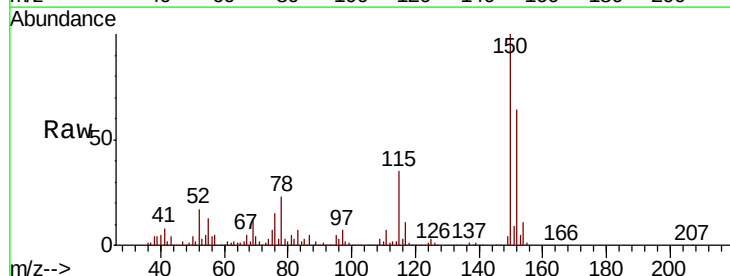


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

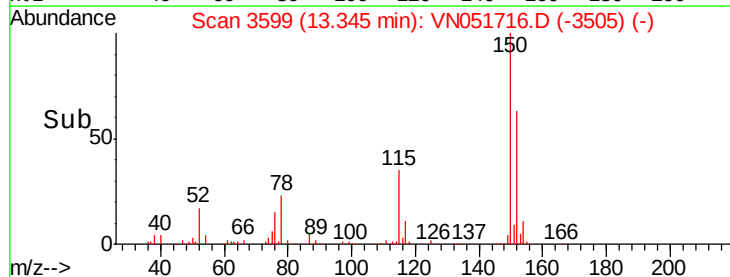
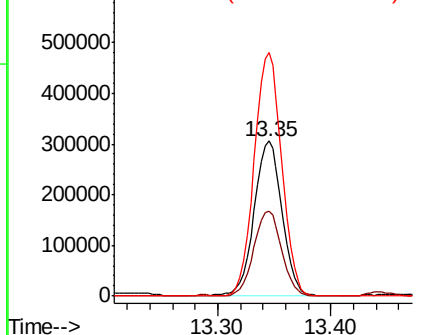


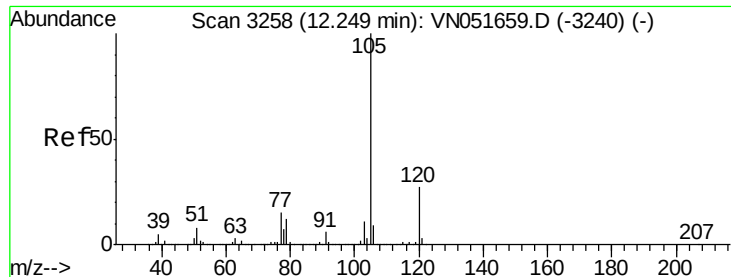
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051716.D
Acq: 6 Oct 2018 3:45

Tgt Ion:152 Resp: 524153
Ion Ratio Lower Upper
152 100
115 54.4 28.6 85.8
150 154.3 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





#73

Isopropylbenzene

Concen: 0.279 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN051716.D

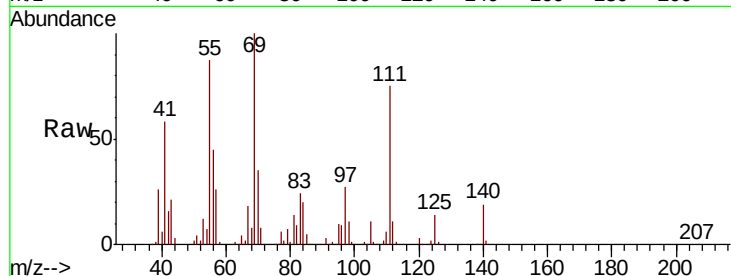
Acq: 6 Oct 2018 3:45

Tot Ion:105 Resp: 12469

Ion Ratio Lower Upper

105 100

120 32.2 13.9 41.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

8000

6000

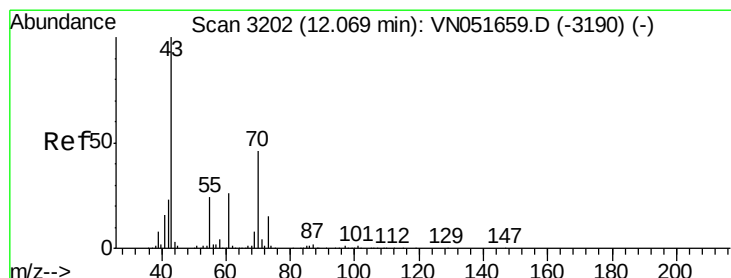
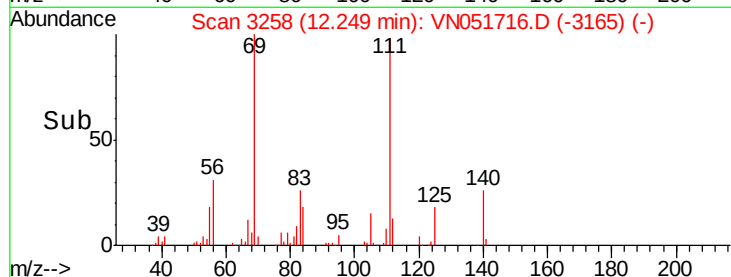
4000

2000

0

12.20 12.25 12.30

Time-->



#74

N-ethyl acetate

Concen: 50.944 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN051716.D

Acq: 6 Oct 2018 3:45

Tgt Ion: 43 Resp: 469876

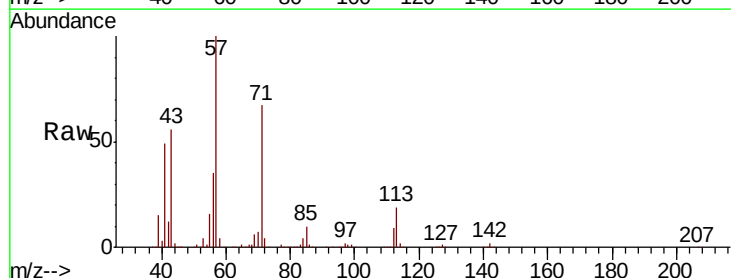
Ion Ratio Lower Upper

43 100

70 9.7 37.1 55.7#

55 13.1 19.1 28.7#

61 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

400000

300000

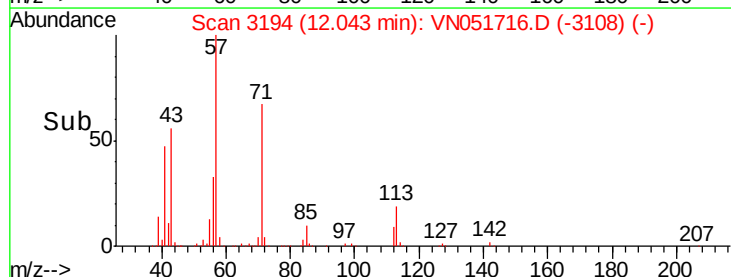
200000

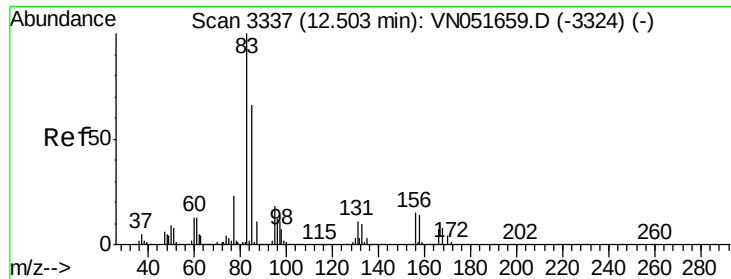
100000

0

12.00 12.05

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 0.281 ug/l

RT: 12.48 min Scan# 3330

Delta R.T. -0.02 min

Lab File: VN051716.D

Acq: 6 Oct 2018 3:45

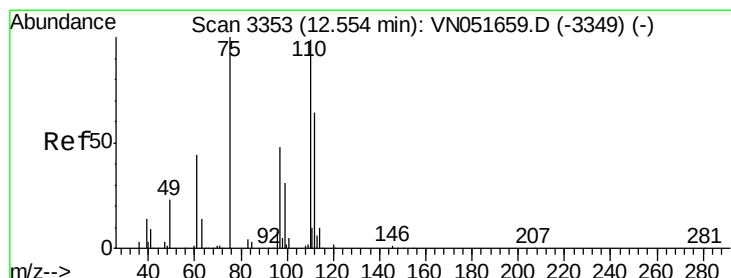
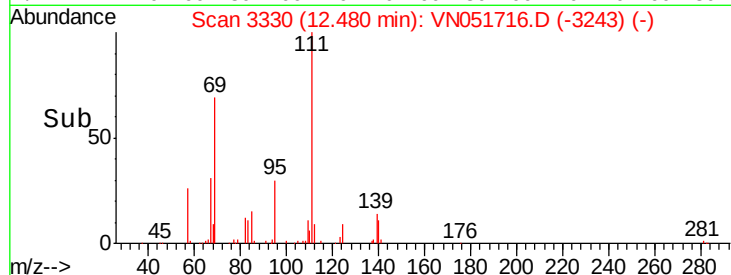
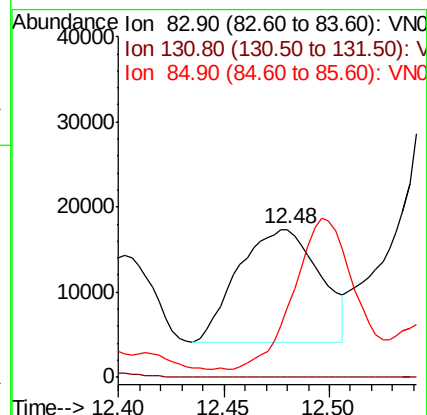
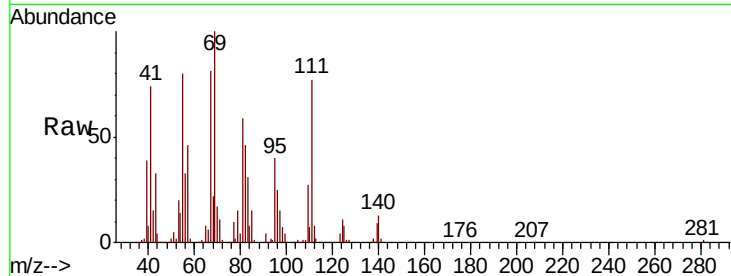
Tot Ion: 83 Resp: 35777

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

85 97.8 33.0 98.9



#76

1,2,3-Trichloropropane

Concen: 35.839 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051716.D

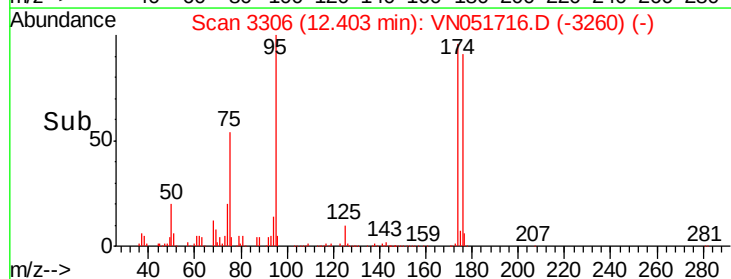
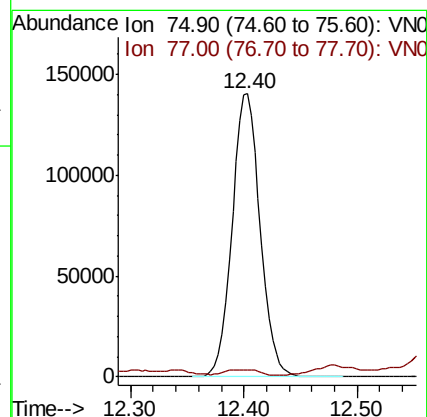
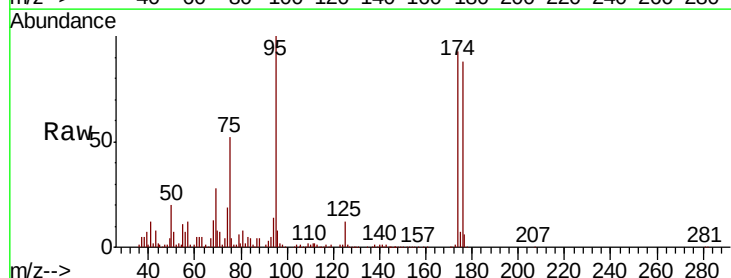
Acq: 6 Oct 2018 3:45

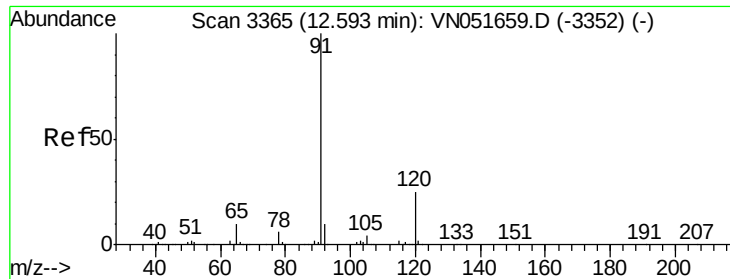
Tgt Ion: 75 Resp: 240980

Ion Ratio Lower Upper

75 100

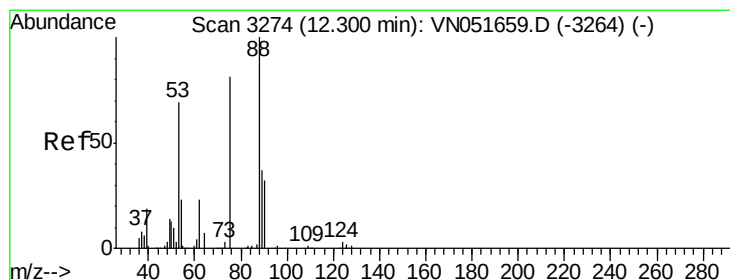
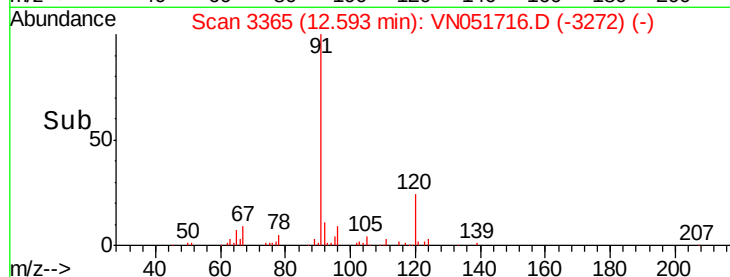
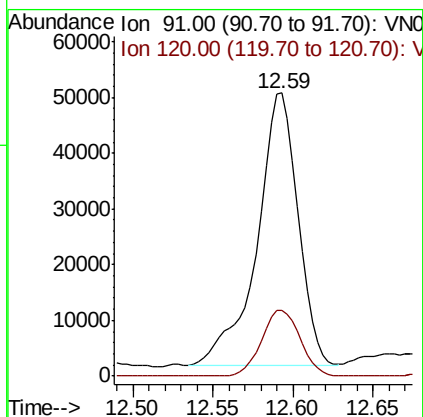
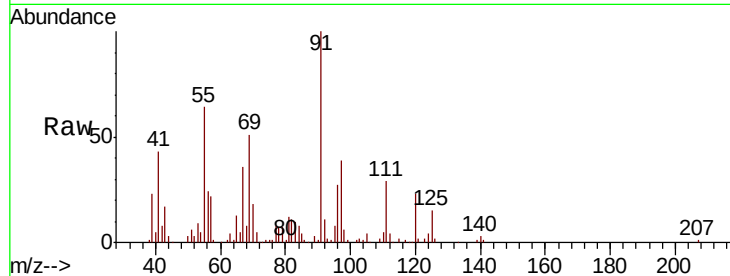
77 1.1 0.0 0.0#





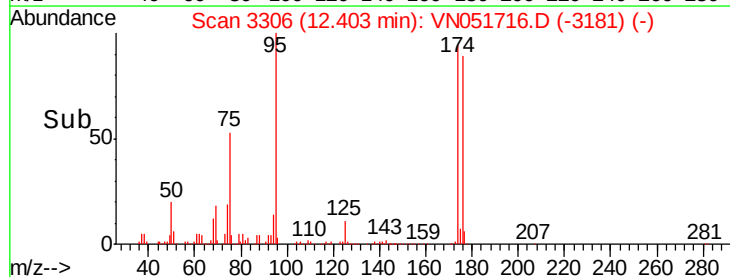
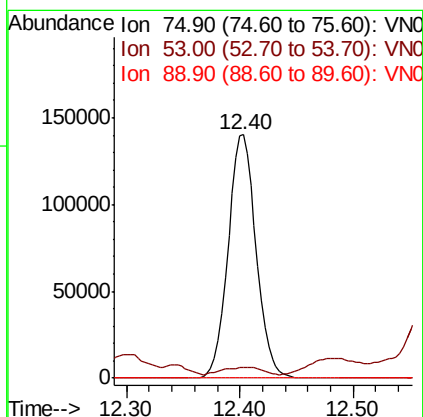
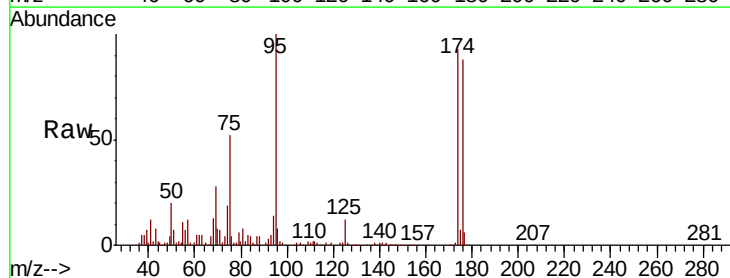
#78
n-propylbenzene
Concen: 1.779 ug/l
RT: 12.59 min Scan# 3365
Delta R.T. -0.00 min
Lab File: VN051716.D
Acq: 6 Oct 2018 3:45

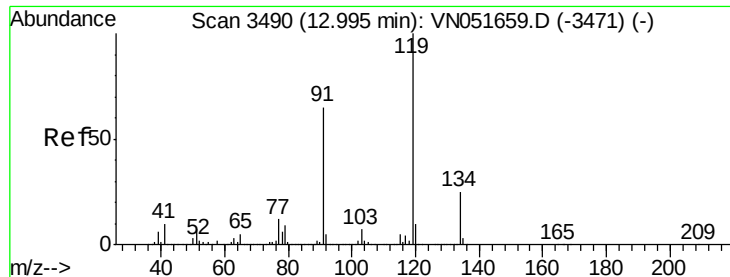
Tot Ion: 91 Resp: 86706
Ion Ratio Lower Upper
91 100
120 22.7 12.4 37.2



#81
trans-1,4-Dichloro-2-butene
Concen: 84.511 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051716.D
Acq: 6 Oct 2018 3:45

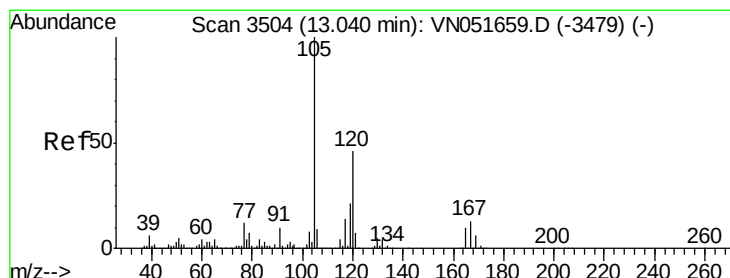
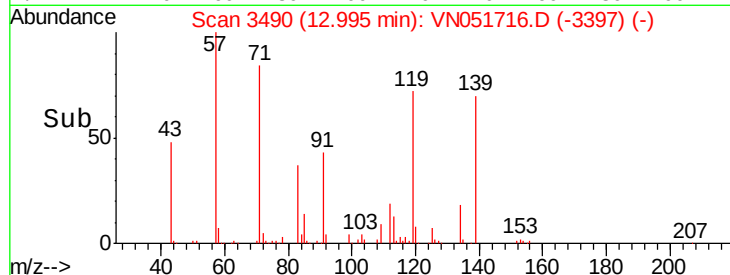
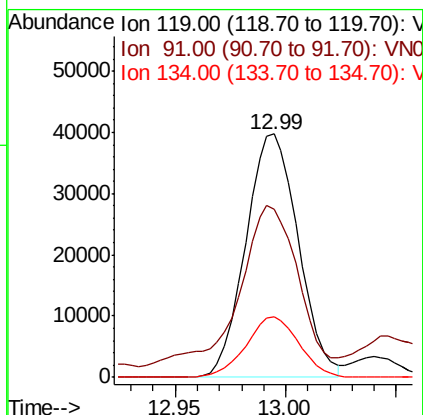
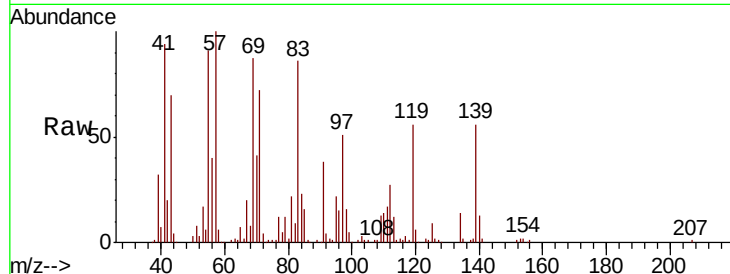
Tgt Ion: 75 Resp: 240980
Ion Ratio Lower Upper
75 100
53 4.2 68.6 102.8#
89 0.0 39.4 59.2#





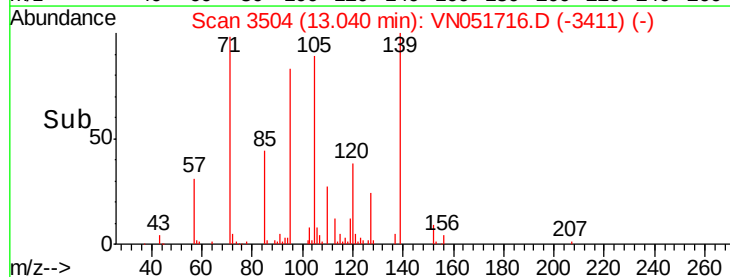
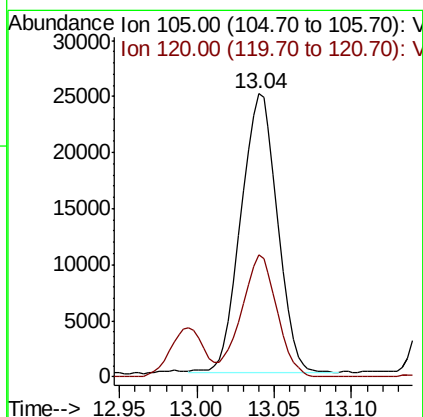
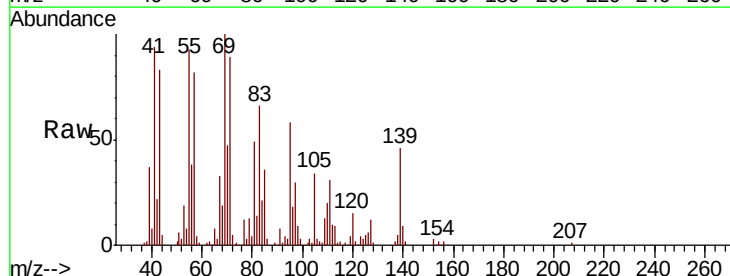
#83
tert-Butylbenzene
Concen: 1.939 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. -0.00 min
Lab File: VN051716.D
Acq: 6 Oct 2018 3:45

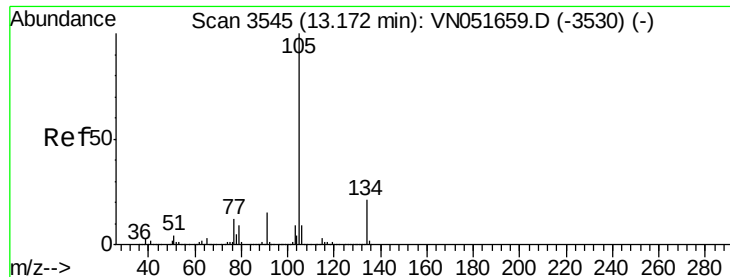
Tot Ion:119 Resp: 65429
Ion Ratio Lower Upper
119 100
91 73.4 32.1 96.5
134 25.1 13.3 39.9



#84
1,2,4-Trimethylbenzene
Concen: 1.075 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN051716.D
Acq: 6 Oct 2018 3:45

Tgt Ion:105 Resp: 40530
Ion Ratio Lower Upper
105 100
120 43.3 22.9 68.7





#85

sec-Butylbenzene

Concen: 14.043 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN051716.D

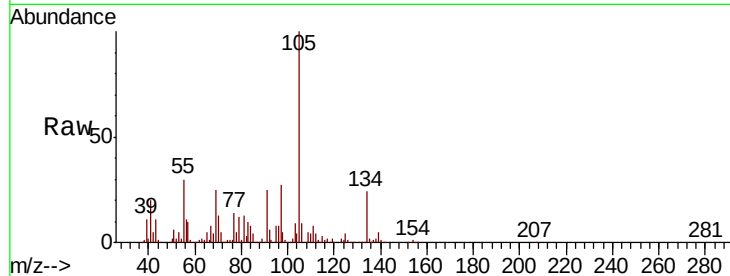
Acq: 6 Oct 2018 3:45

Tot Ion:105 Resp: 626722

Ion Ratio Lower Upper

105 100

134 33.0 10.5 31.6#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

400000

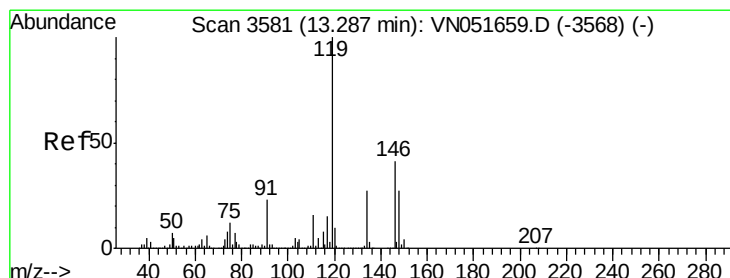
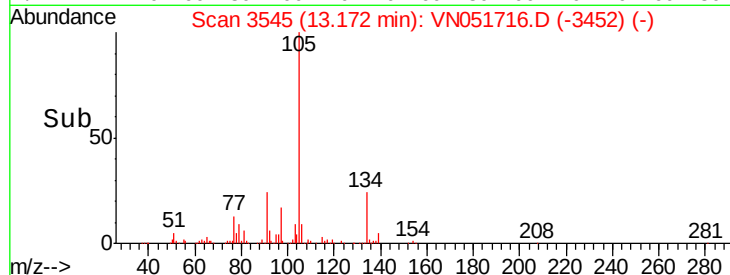
300000

200000

100000

0

Time-->



#86

p-Isopropyltoluene

Concen: 3.582 ug/l

RT: 13.44 min Scan# 3629

Delta R.T. 0.15 min

Lab File: VN051716.D

Acq: 6 Oct 2018 3:45

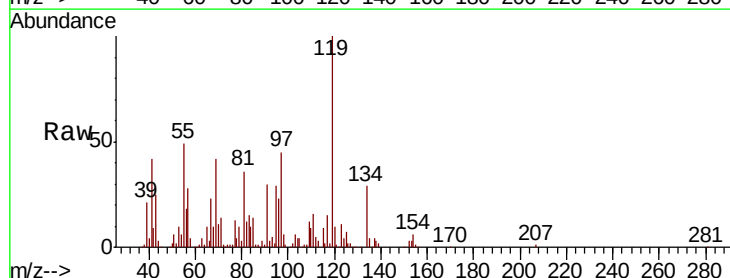
Tgt Ion:119 Resp: 141741

Ion Ratio Lower Upper

119 100

134 28.6 13.4 40.2

91 28.9 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

300000

250000

200000

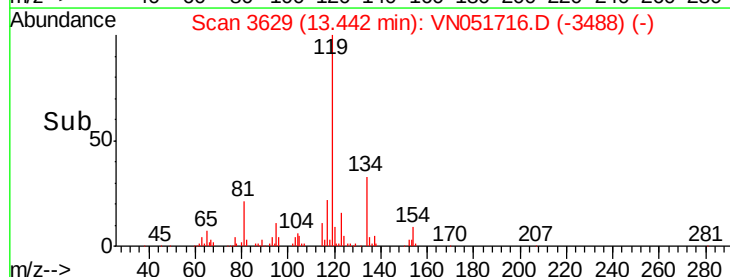
150000

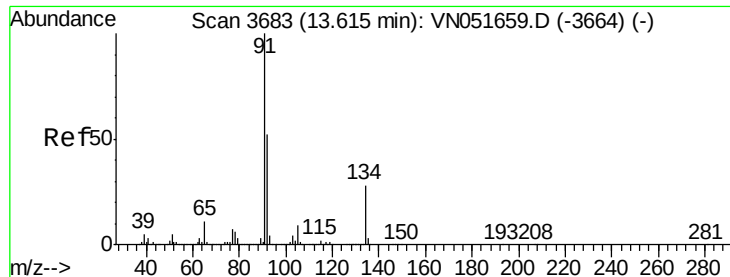
100000

50000

0

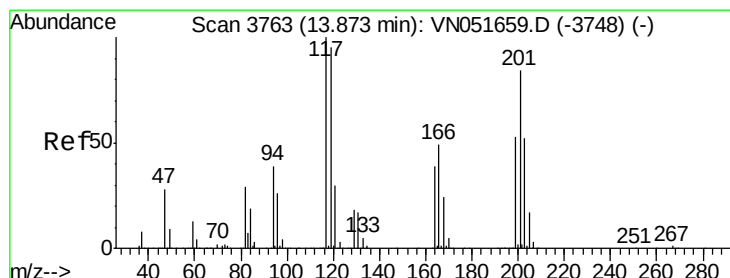
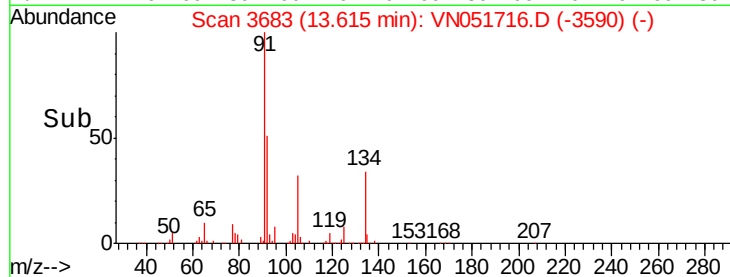
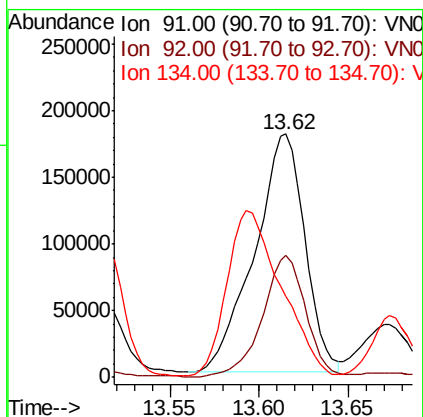
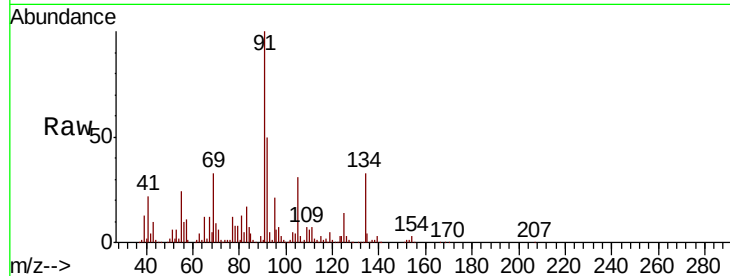
Time-->





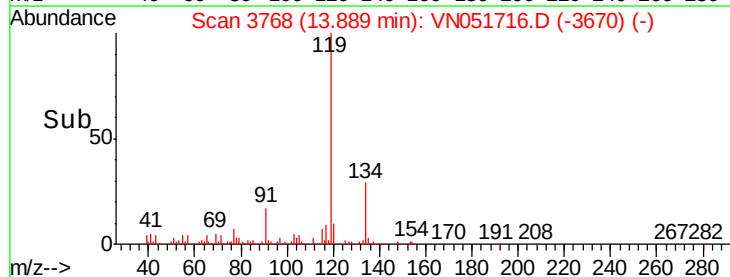
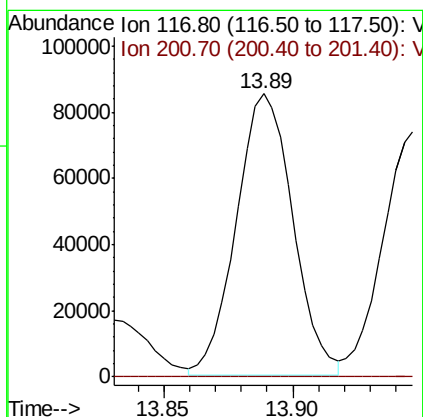
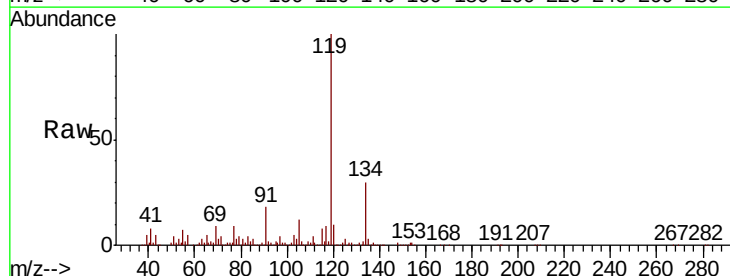
#89
n-Butylbenzene
Concen: 11.235 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VN051716.D
Acq: 6 Oct 2018 3:45

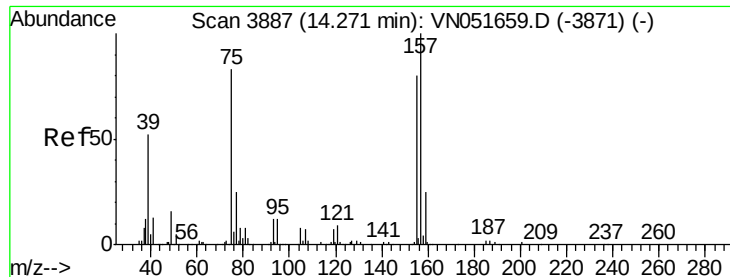
Tot Ion: 91 Resp: 351477
Ion Ratio Lower Upper
91 100
92 43.5 26.0 78.0
134 0.0 14.2 42.6#



#90
Hexachloroethane
Concen: 16.496 ug/l
RT: 13.89 min Scan# 3768
Delta R.T. 0.02 min
Lab File: VN051716.D
Acq: 6 Oct 2018 3:45

Tgt Ion: 117 Resp: 130221
Ion Ratio Lower Upper
117 100
201 0.0 42.4 127.3#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.887 ug/l

RT: 14.29 min Scan# 3893

Delta R.T. 0.02 min

Lab File: VN051716.D

Acq: 6 Oct 2018 3:45

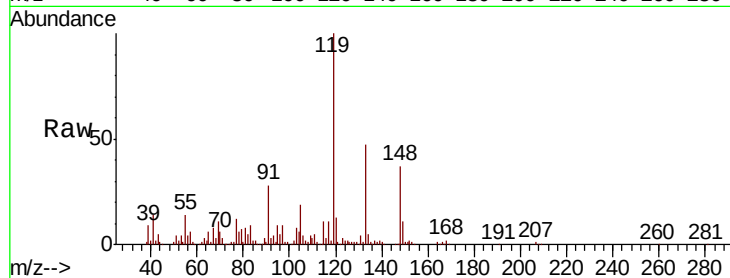
Tot Ion: 75 Resp: 1392

Ion Ratio Lower Upper

75 100

155 0.0 47.6 142.9#

157 0.0 61.7 185.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

