

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092218\
 Data File : VN051381.D
 Acq On : 21 Sep 2018 20:16
 Operator : MD\SY
 Sample : PB113086ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Sep 21 23:04:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092018W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 21 04:23:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	749556	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1129798	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	942760	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	357824	50.00	ug/l	0.00

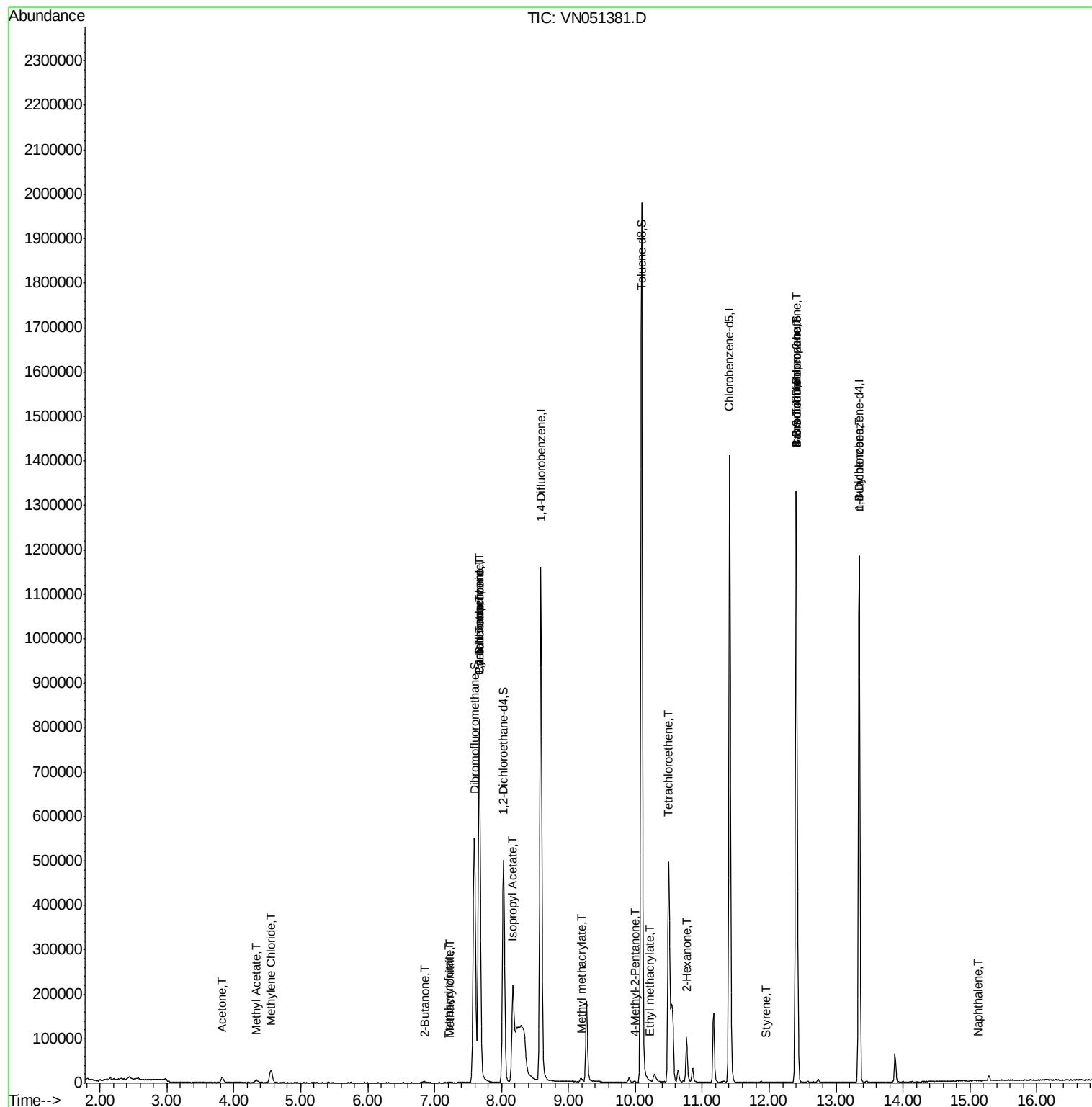
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	428201	52.71	ug/l	0.00
Spiked Amount			Recovery	=	105.42%	
35) Dibromofluoromethane	7.59	113	422347	46.26	ug/l	0.00
Spiked Amount			Recovery	=	92.52%	
50) Toluene-d8	10.09	98	1490145	42.46	ug/l	0.00
Spiked Amount			Recovery	=	84.92%	
62) 4-Bromofluorobenzene	12.40	95	407033	35.65	ug/l	0.00
Spiked Amount			Recovery	=	71.30%	

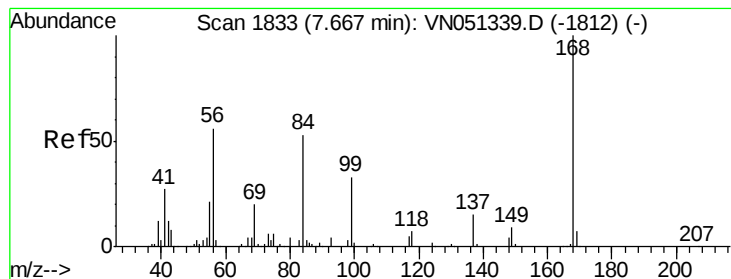
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1187	Below Cal	#	82
16) Acetone	3.82	43	20090	11.268	ug/l	97
18) Methyl Acetate	4.34	43	12761	1.622	ug/l	97
20) Methylene Chloride	4.55	84	22760	2.725	ug/l	98
25) 2-Butanone	6.85	43	3914	1.686	ug/l	90
29) Tetrahydrofuran	7.21	42	631	0.429	ug/l #	82
31) Cyclohexane	7.66	56	11131	0.480	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43704	3.782	ug/l #	48
38) Carbon Tetrachloride	7.67	117	61241	4.899	ug/l #	17
41) Methacrylonitrile	7.23	41	734	0.246	ug/l #	19
43) Isopropyl Acetate	8.17	43	269061	26.853	ug/l #	91
48) Methyl methacrylate	9.18	41	5444	1.066	ug/l #	15
51) 4-Methyl-2-Pentanone	9.99	43	1837	0.341	ug/l #	70
56) Ethyl methacrylate	10.23	69	2136	1.790	ug/l #	51
59) 2-Hexanone	10.76	43	12439	3.423	ug/l #	57
64) Tetrachloroethene	10.50	164	1773	0.216	ug/l #	45
70) Styrene	11.96	104	191	0.902	ug/l #	52
71) Bromoform	12.40	173	2392	0.411	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	389	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	189344	39.524	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	189344	118.637	ug/l #	14
89) n-Butylbenzene	13.35	91	624	1.460	ug/l #	47
95) Naphthalene	15.14	128	63	5.336	ug/l #	69

(#) = 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# 1833

Delta R.T. 0.00 min

Lab File: VN051381.D

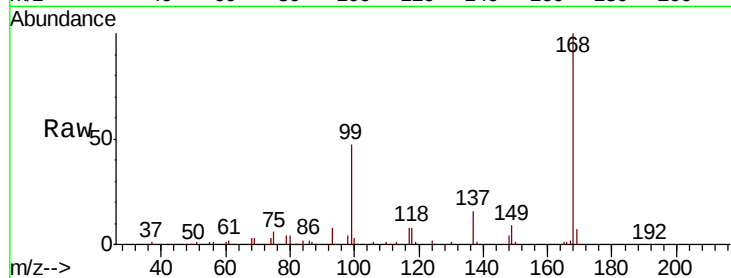
Acq: 21 Sep 2018 20:16

Tot Ion:168 Resp: 749556

Ion Ratio Lower Upper

168 100

99 46.7 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN051339.D

Ion 98.90 (98.60 to 99.60): VN051339.D

7.67

300000

200000

100000

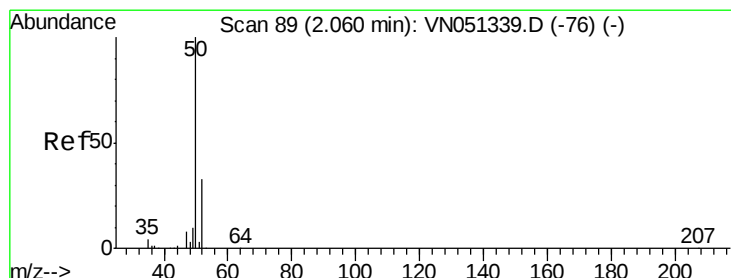
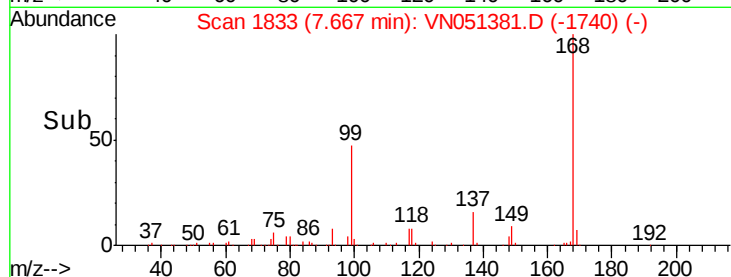
0

Time-->

7.60

7.70

7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051381.D

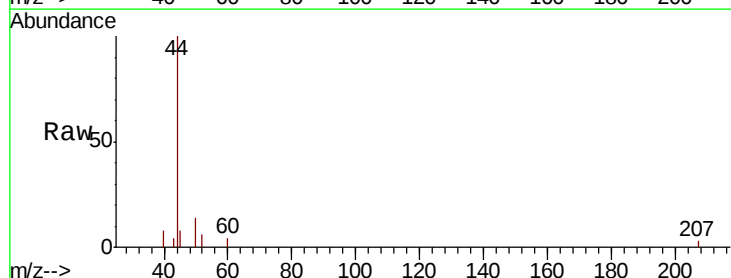
Acq: 21 Sep 2018 20:16

Tgt Ion: 50 Resp: 1187

Ion Ratio Lower Upper

50 100

52 43.8 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VN051339.D

Ion 51.90 (51.60 to 52.60): VN051339.D

2.06

800

600

400

200

0

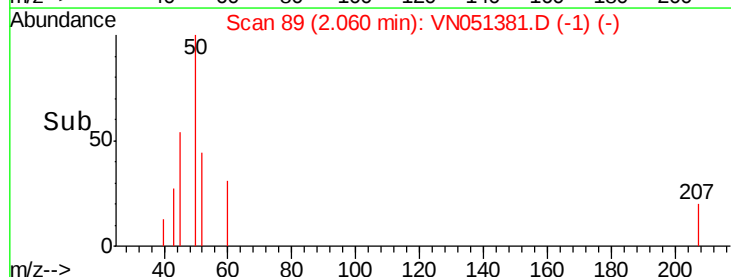
Time-->

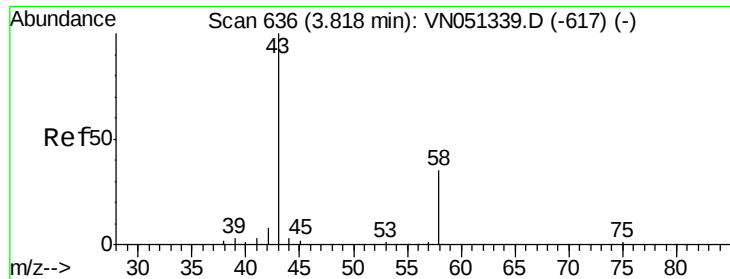
2.02

2.04

2.06

2.08





#16

Acetone

Concen: 11.268 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN051381.D

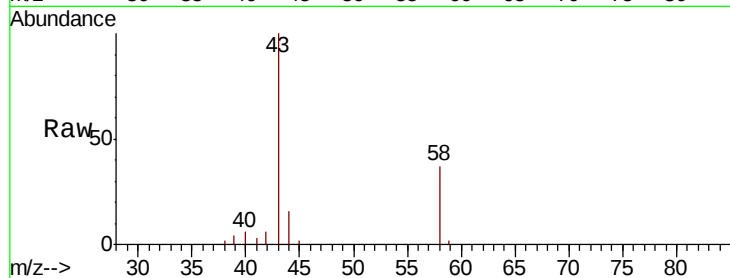
Acq: 21 Sep 2018 20:16

Tot Ion: 43 Resp: 20090

Ion Ratio Lower Upper

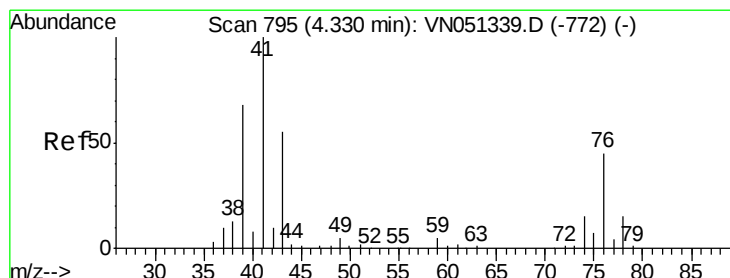
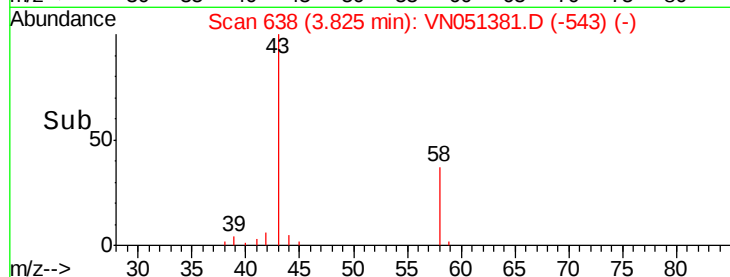
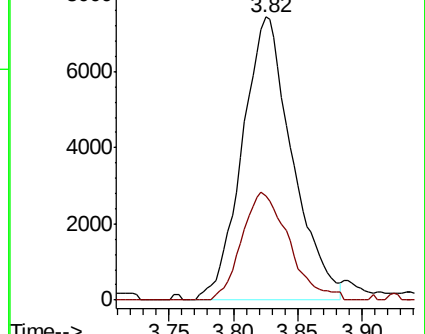
43 100

58 37.0 28.3 42.5



Abundance Ion 43.00 (42.70 to 43.70): VN051339.D (-617) (-)

Ion 58.00 (57.70 to 58.70): VN051339.D (-617) (-)



#18

Methyl Acetate

Concen: 1.622 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051381.D

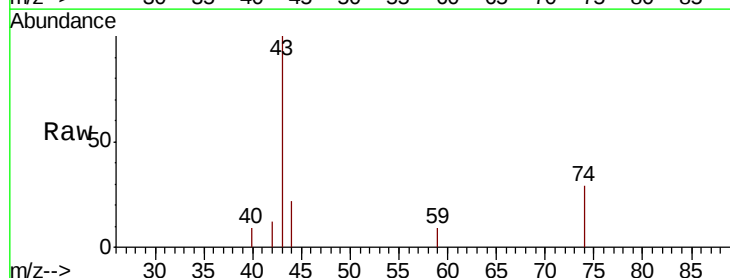
Acq: 21 Sep 2018 20:16

Tgt Ion: 43 Resp: 12761

Ion Ratio Lower Upper

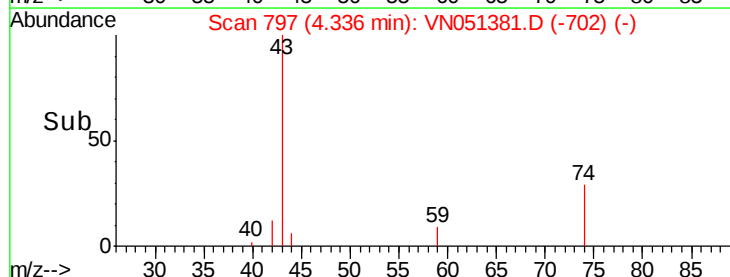
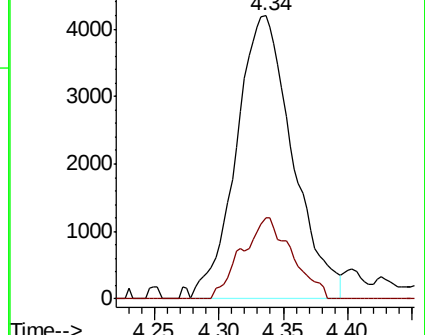
43 100

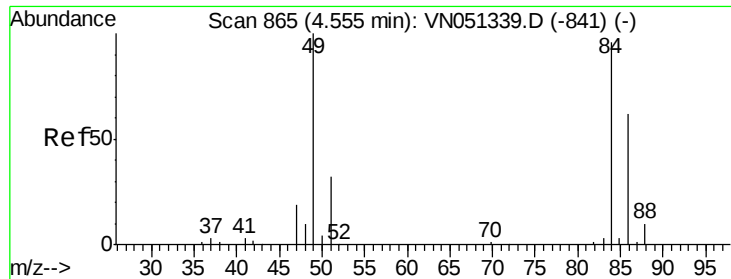
74 25.6 21.7 32.5



Abundance Ion 43.00 (42.70 to 43.70): VN051339.D (-772) (-)

Ion 74.00 (73.70 to 74.70): VN051339.D (-772) (-)

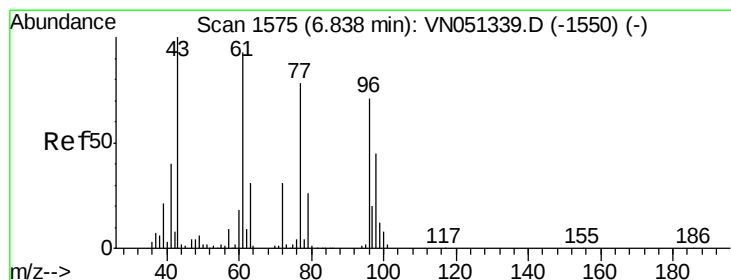
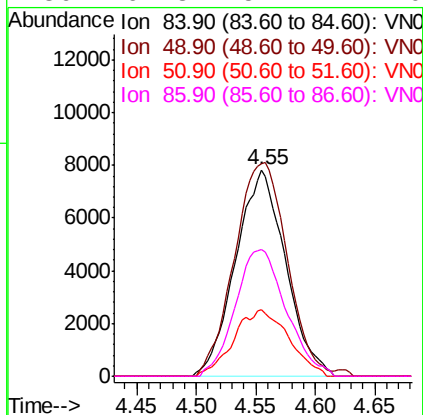
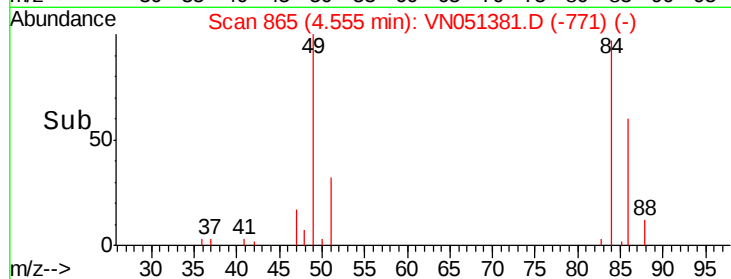
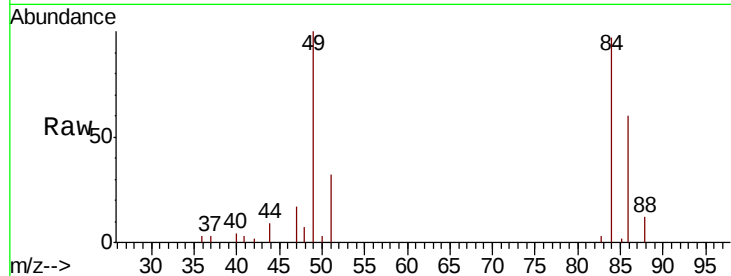




#20
Methvlene Chloride
Concen: 2.725 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051381.D
Acq: 21 Sep 2018 20:16

Tot Ion: 84 Resp: 22760

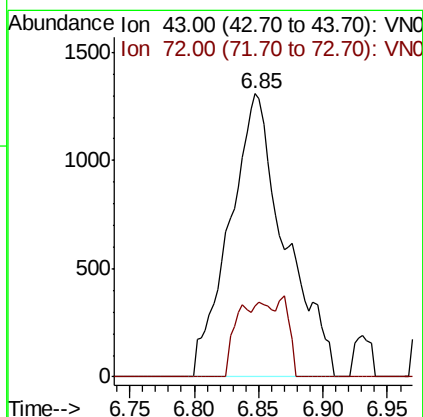
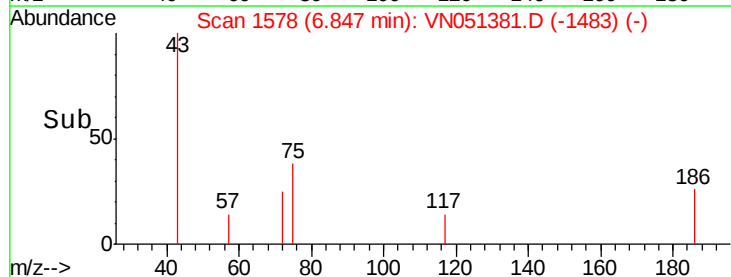
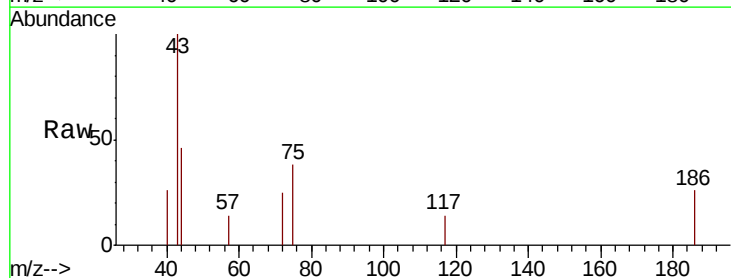
Ion	Ratio	Lower	Upper
84	100		
49	103.0	83.2	124.8
51	32.5	26.4	39.6
86	61.3	51.4	77.0

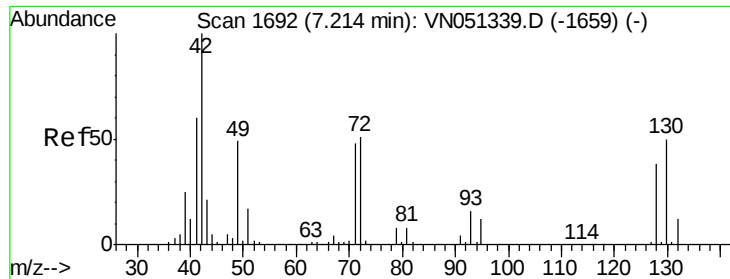


#25
2-Butanone
Concen: 1.686 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN051381.D
Acq: 21 Sep 2018 20:16

Tgt Ion: 43 Resp: 3914

Ion	Ratio	Lower	Upper
43	100		
72	25.2	24.7	37.1





#29

Tetrahydrofuran

Concen: 0.429 ug/l

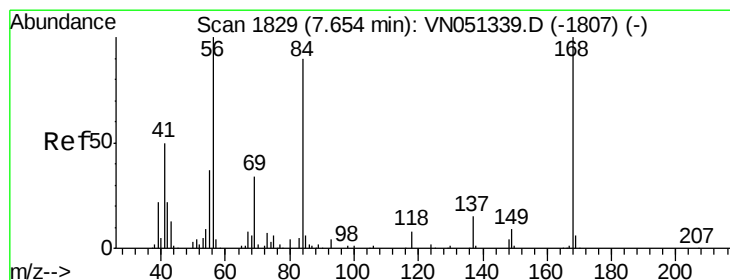
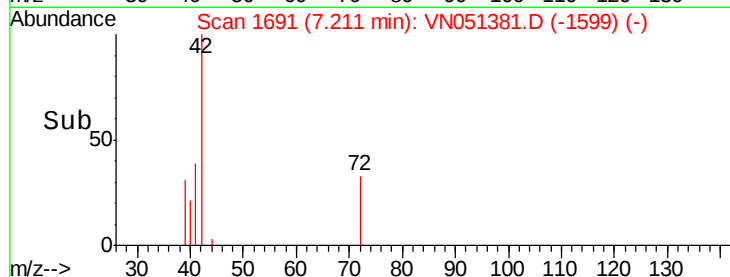
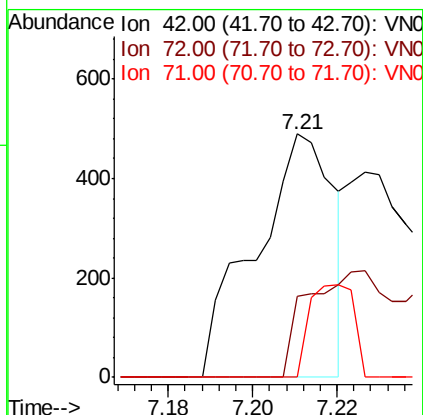
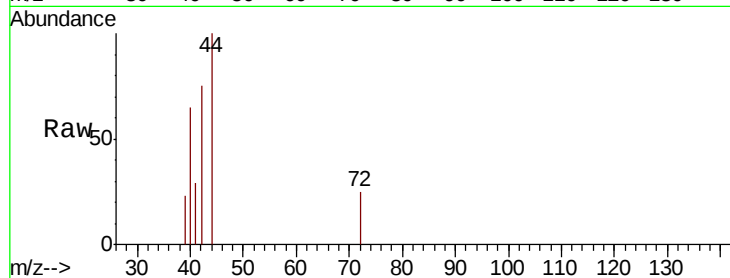
RT: 7.21 min Scan# 1691

Delta R.T. -0.01 min

Lab File: VN051381.D

Acq: 21 Sep 2018 20:16

Tot Ion:	42	Resp:	631
Ion	Ratio	Lower	Upper
42	100		
72	48.5	39.0	58.4
71	21.6	36.5	54.7#



#31

Cyclohexane

Concen: 0.480 ug/l

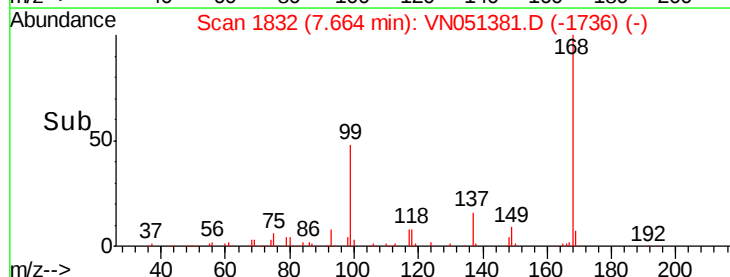
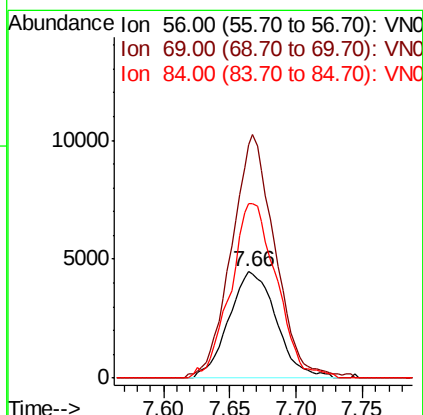
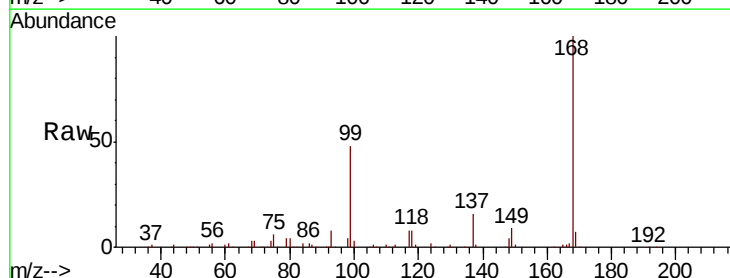
RT: 7.66 min Scan# 1832

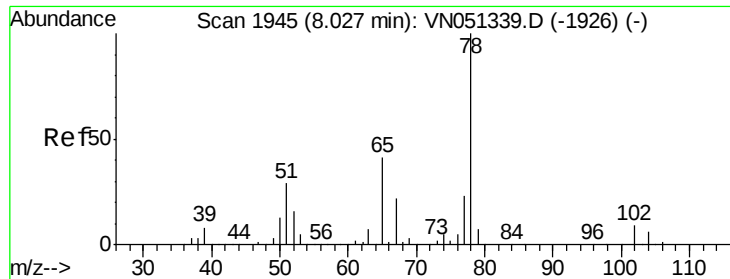
Delta R.T. 0.01 min

Lab File: VN051381.D

Acq: 21 Sep 2018 20:16

Tgt Ion:	56	Resp:	11131
Ion	Ratio	Lower	Upper
56	100		
69	216.2	27.3	40.9#
84	164.6	72.2	108.2#





#33

1,2-Dichloroethane-d4

Concen: 52.708 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051381.D

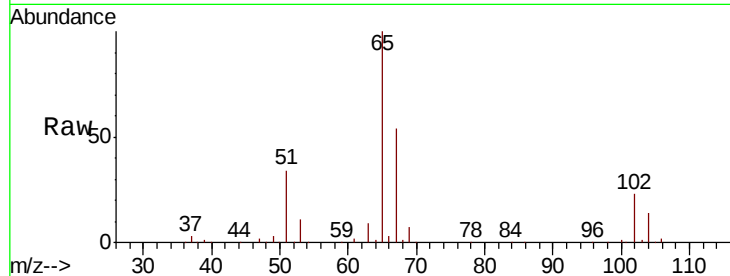
Acq: 21 Sep 2018 20:16

Tot Ion: 65 Resp: 428201

Ion Ratio Lower Upper

65 100

67 53.5 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

200000

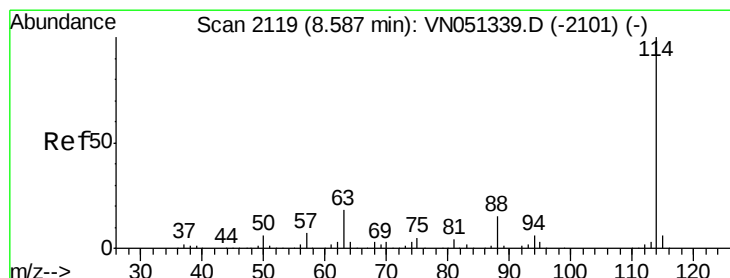
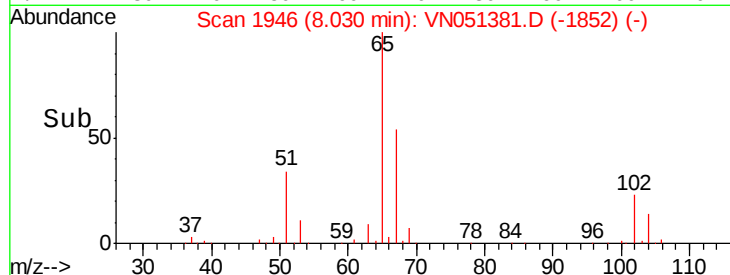
150000

100000

50000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051381.D

Acq: 21 Sep 2018 20:16

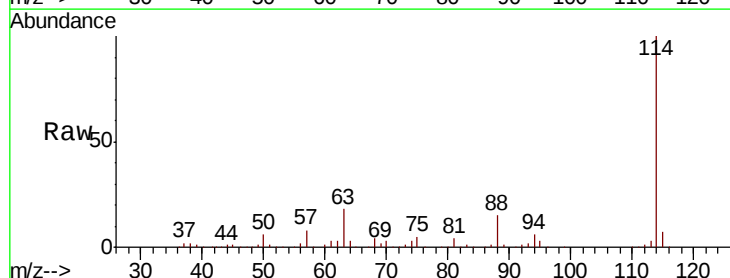
Tgt Ion: 114 Resp: 1129798

Ion Ratio Lower Upper

114 100

63 17.7 0.0 36.6

88 15.0 0.0 29.8



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

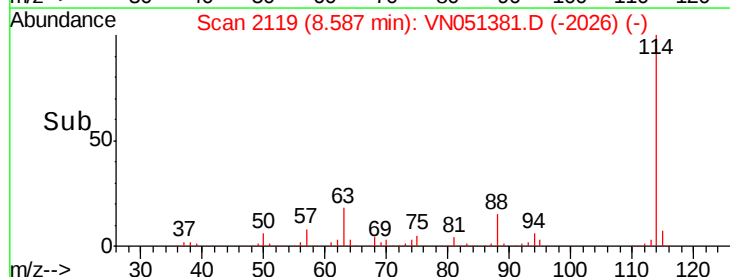
600000

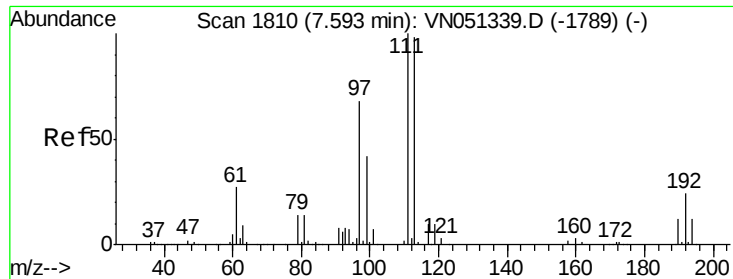
400000

200000

0

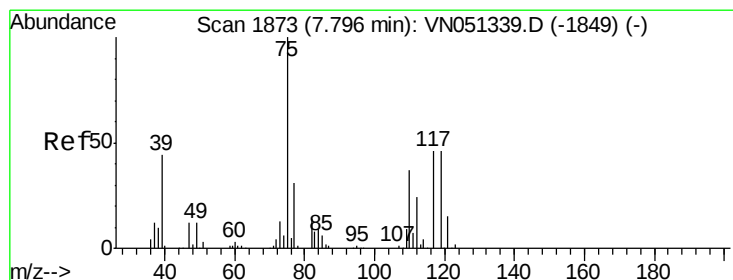
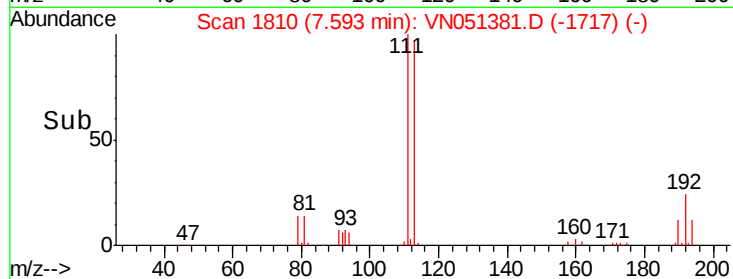
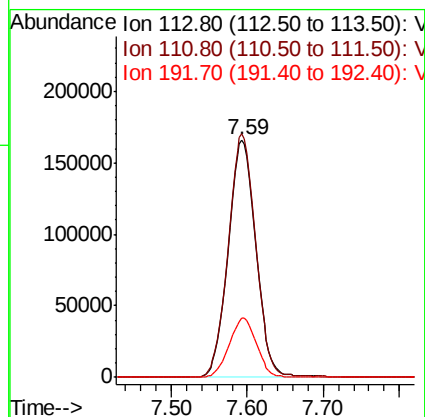
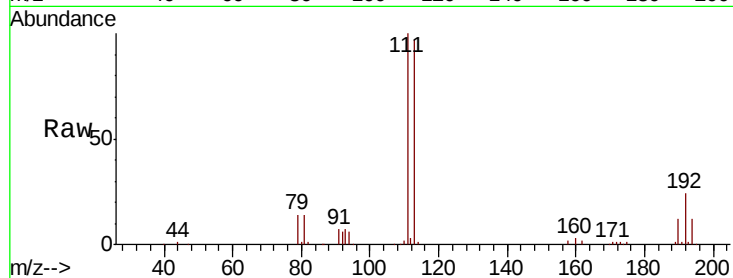
Time--> 8.50 8.60 8.70





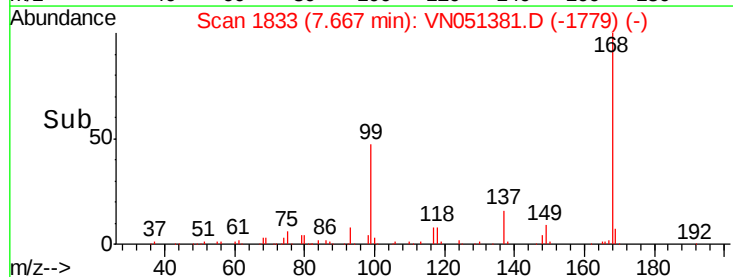
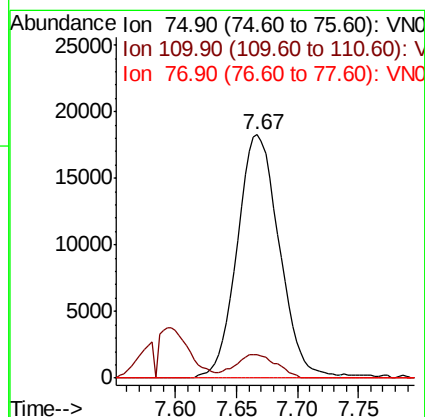
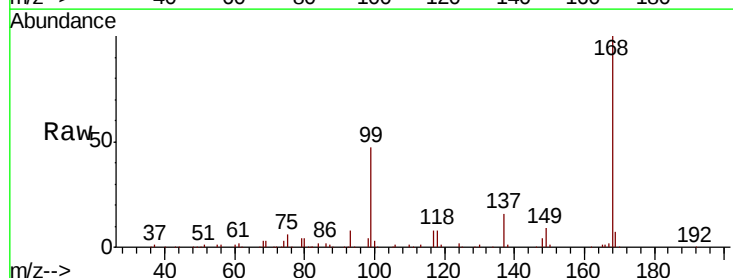
#35
 Dibromofluoromethane
 Concen: 46.258 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051381.D
 Acq: 21 Sep 2018 20:16

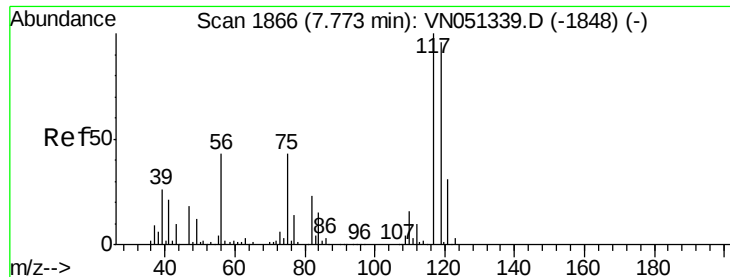
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.2	81.9	122.9
192	24.6	19.8	29.6



#36
 1,1-Dichloropropene
 Concen: 3.782 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051381.D
 Acq: 21 Sep 2018 20:16

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	18.9	56.5#
77	0.0	25.4	38.2#





#38

Carbon Tetrachloride

Concen: 4.899 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051381.D

Acq: 21 Sep 2018 20:16

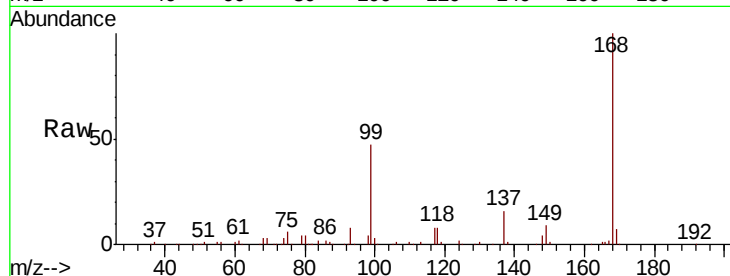
Tot Ion: 117 Resp: 61241

Ion Ratio Lower Upper

117 100

119 6.5 77.0 115.4#

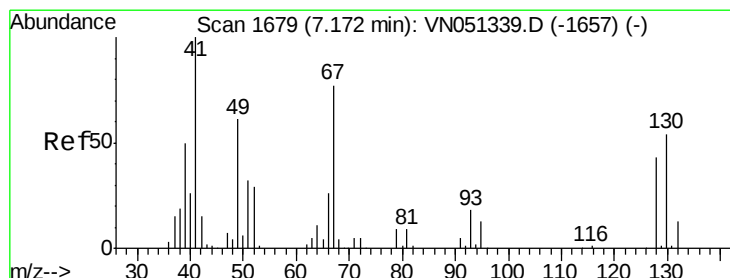
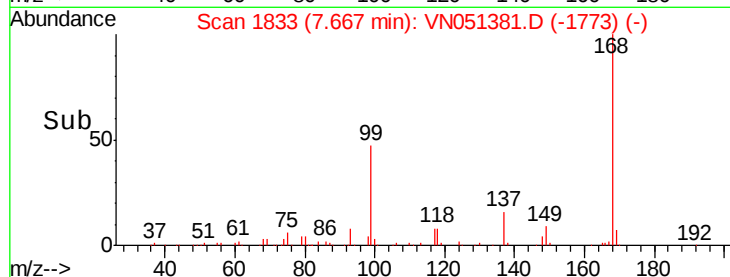
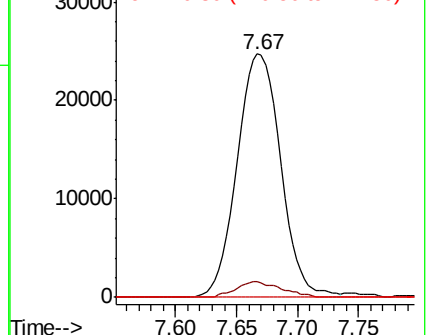
121 0.0 25.0 37.4#



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: 0.246 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.06 min

Lab File: VN051381.D

Acq: 21 Sep 2018 20:16

Tgt Ion: 41 Resp: 734

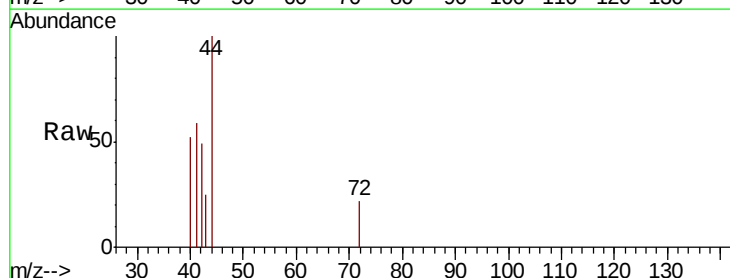
Ion Ratio Lower Upper

41 100

39 13.1 51.3 76.9#

67 0.0 77.0 115.4#

52 0.0 30.4 45.6#

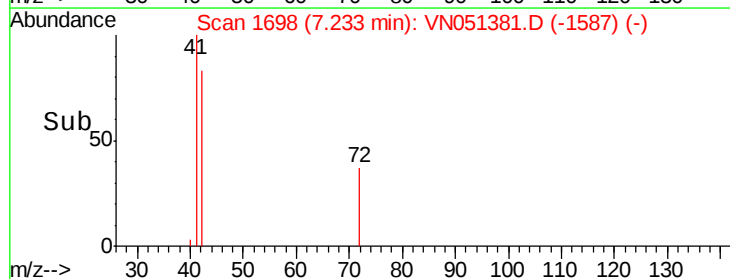
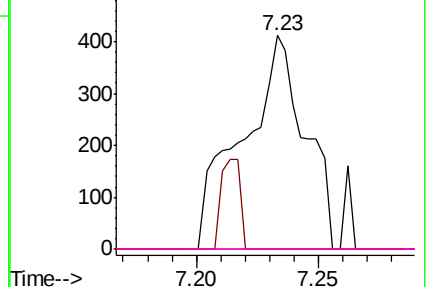


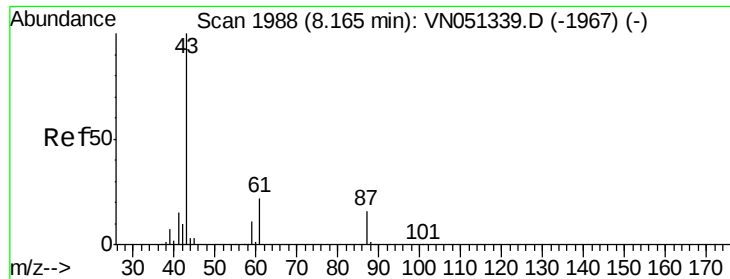
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 26.853 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

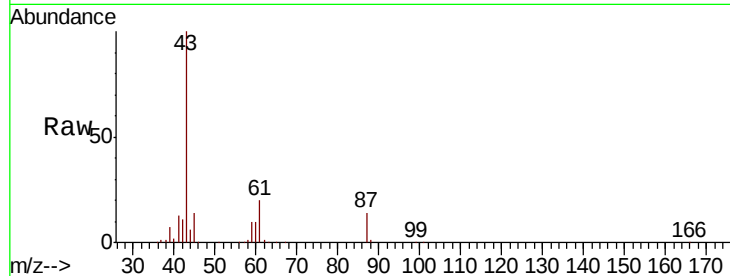
Lab File: VN051381.D

Acq: 21 Sep 2018 20:16

Tot Ion: 43 Resp: 269061

Ion Ratio Lower Upper

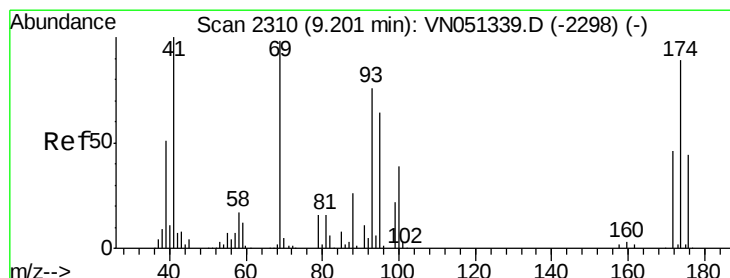
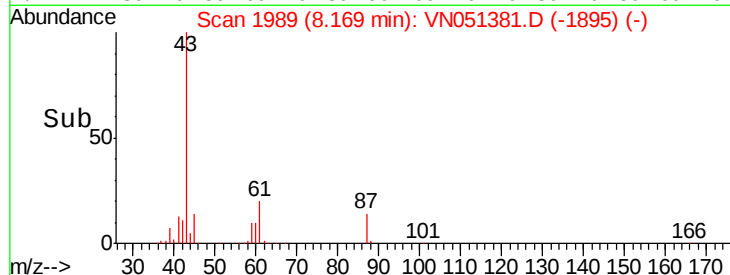
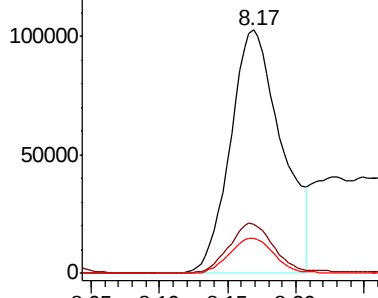
43	100		
61	18.1	18.1	27.1
87	12.6	12.8	19.2#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.066 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

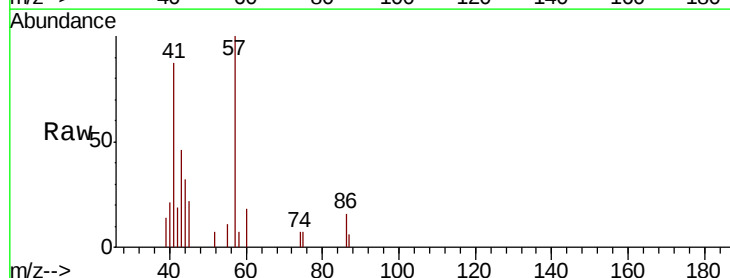
Lab File: VN051381.D

Acq: 21 Sep 2018 20:16

Tgt Ion: 41 Resp: 5444

Ion Ratio Lower Upper

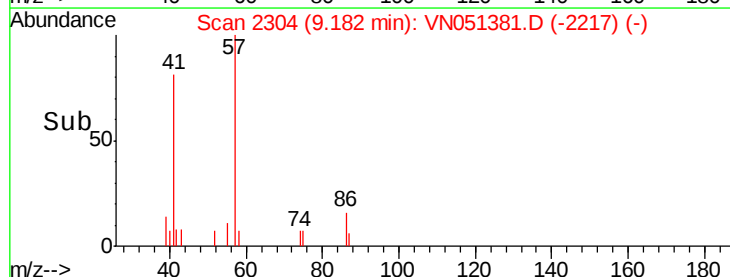
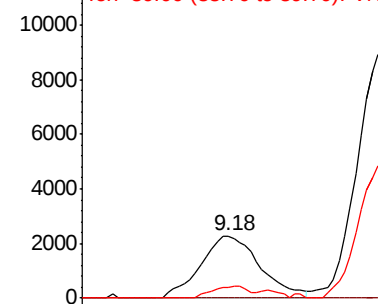
41	100		
69	0.0	79.4	119.0#
39	11.9	43.0	64.6#

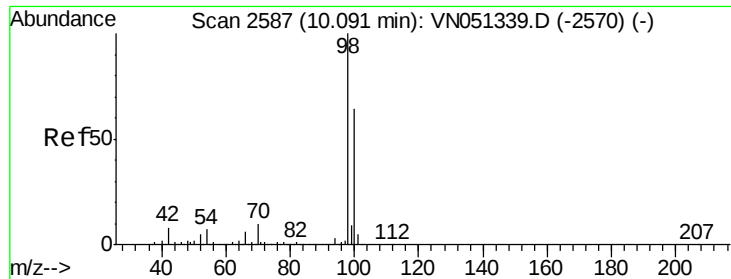


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

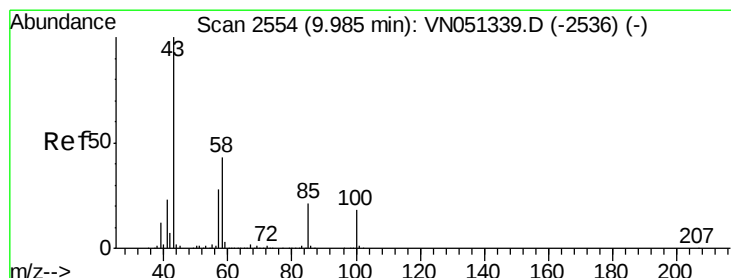
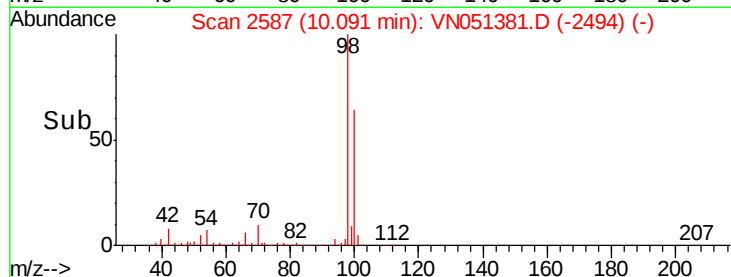
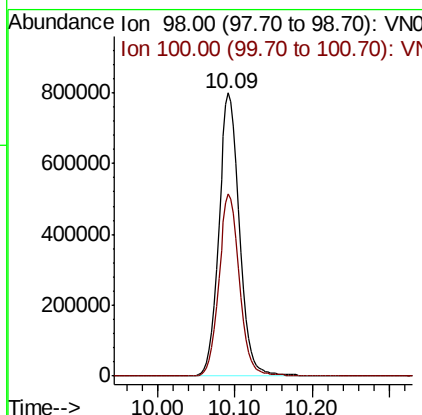
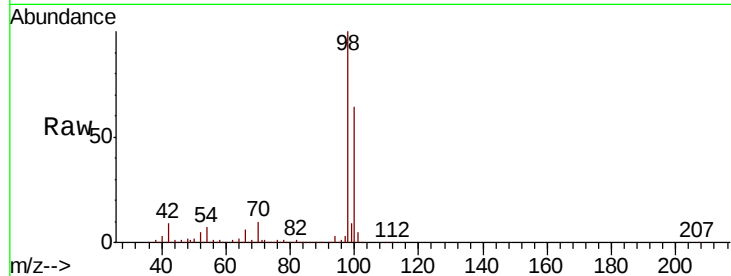
Ion 39.00 (38.70 to 39.70): VNO





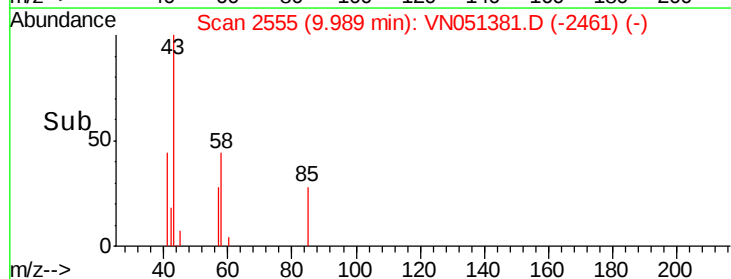
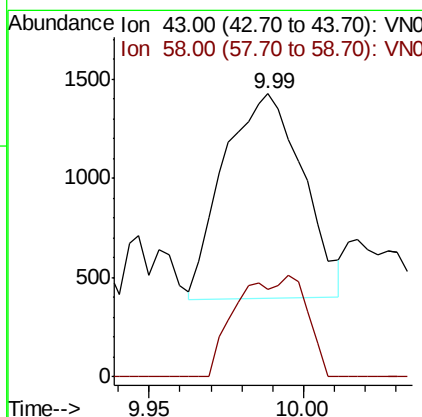
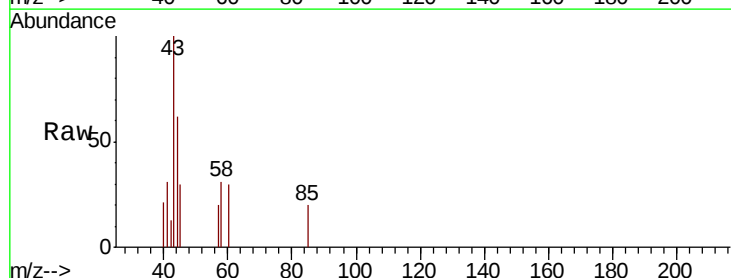
#50
Toluene-d8
Concen: 42.455 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051381.D
Acq: 21 Sep 2018 20:16

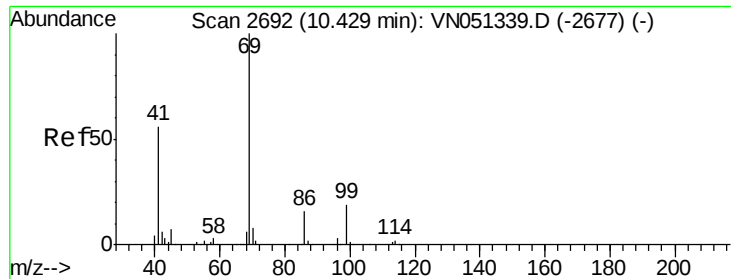
Tot Ion: 98 Resp: 1490145
Ion Ratio Lower Upper
98 100
100 64.4 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 0.341 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051381.D
Acq: 21 Sep 2018 20:16

Tgt Ion: 43 Resp: 1837
Ion Ratio Lower Upper
43 100
58 23.6 34.2 51.4#





#56

Ethyl methacrylate

Concen: 1.790 ug/l

RT: 10.23 min Scan# 2630

Delta R.T. -0.20 min

Lab File: VN051381.D

Acq: 21 Sep 2018 20:16

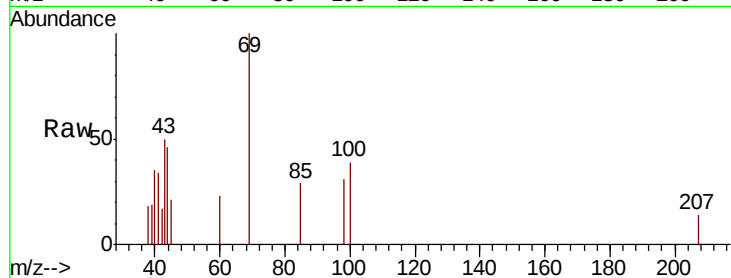
Tot Ion: 69 Resp: 2136

Ion Ratio Lower Upper

69 100

41 12.1 45.1 67.7#

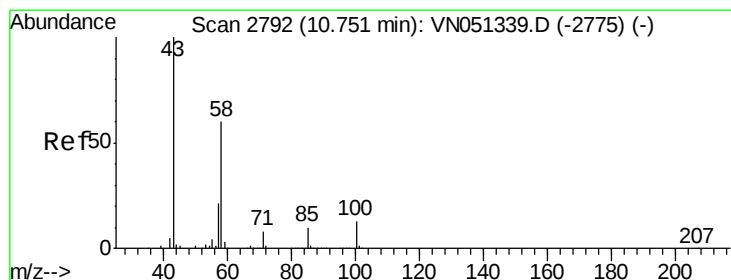
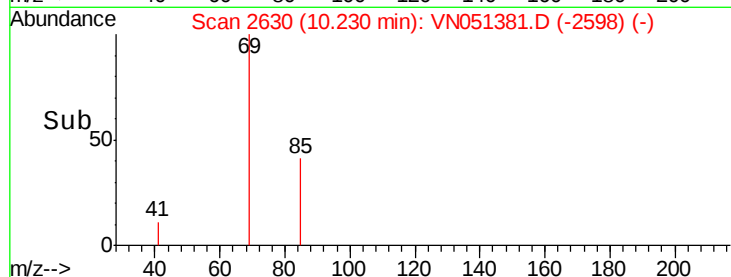
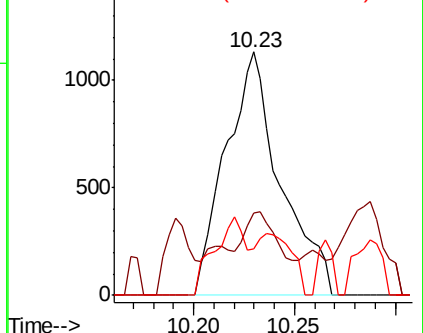
39 15.4 23.4 35.2#



Abundance Ion 69.00 (68.70 to 69.70): VN051339.D (-2677) (-)

Ion 41.00 (40.70 to 41.70): VN051339.D (-2677) (-)

Ion 39.00 (38.70 to 39.70): VN051339.D (-2677) (-)



#59

2-Hexanone

Concen: 3.423 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051381.D

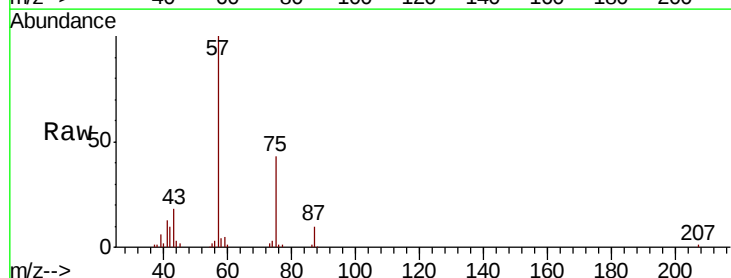
Acq: 21 Sep 2018 20:16

Tgt Ion: 43 Resp: 12439

Ion Ratio Lower Upper

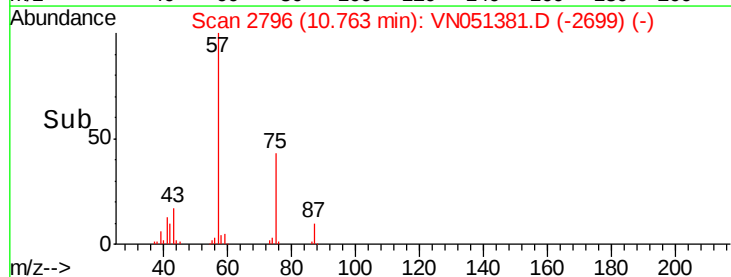
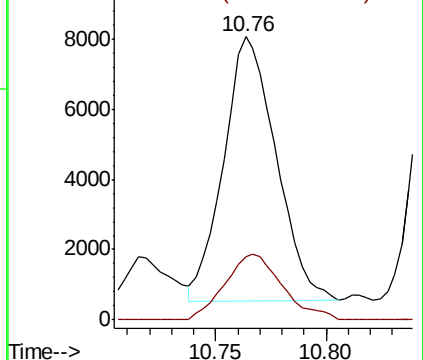
43 100

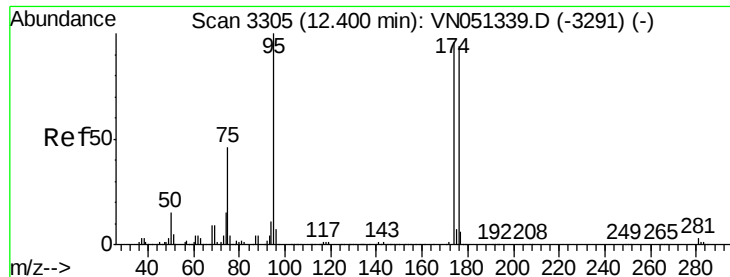
58 27.3 29.9 89.8#



Abundance Ion 43.00 (42.70 to 43.70): VN051339.D (-2775) (-)

Ion 58.00 (57.70 to 58.70): VN051339.D (-2775) (-)





#62

4-Bromofluorobenzene

Concen: 35.646 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051381.D

Acq: 21 Sep 2018 20:16

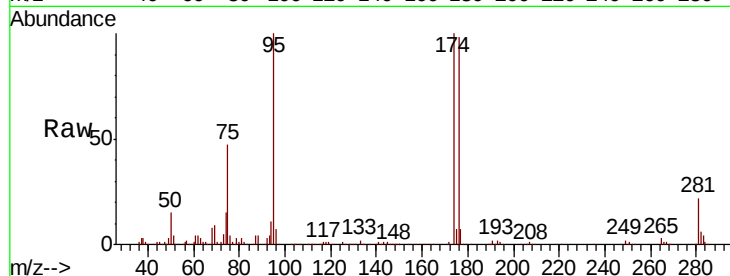
Tot Ion: 95 Resp: 407033

Ion Ratio Lower Upper

95 100

174 98.7 0.0 194.6

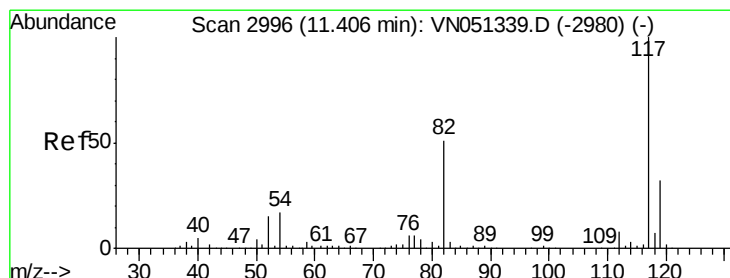
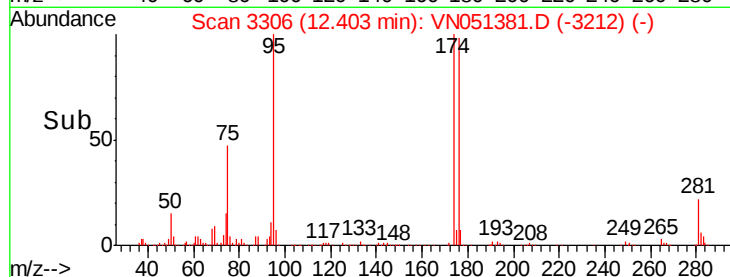
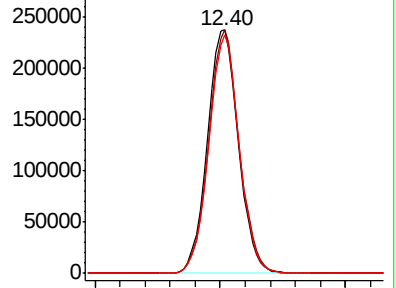
176 95.9 0.0 189.6



Abundance Ion 94.90 (94.60 to 95.60): VN051339.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN051339.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN051339.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051381.D

Acq: 21 Sep 2018 20:16

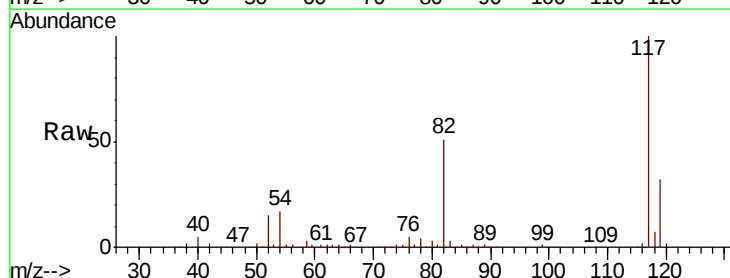
Tgt Ion: 117 Resp: 942760

Ion Ratio Lower Upper

117 100

82 51.1 40.7 61.1

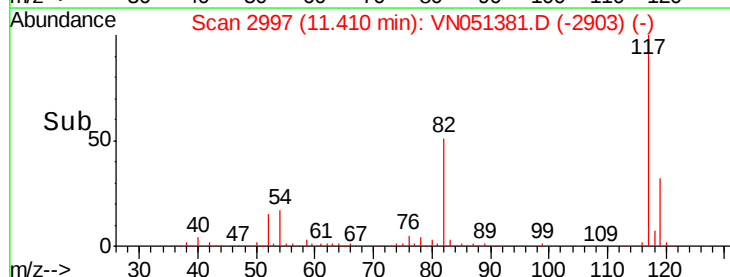
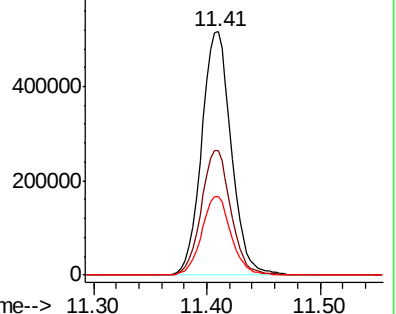
119 32.2 25.3 37.9

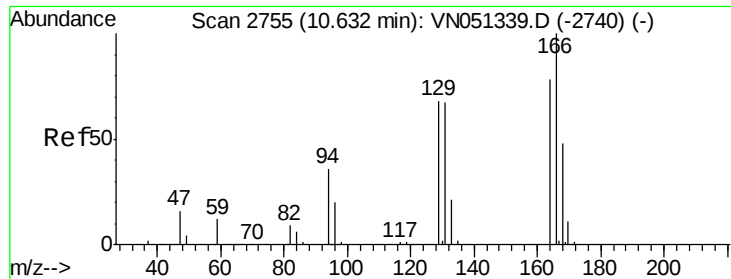


Abundance Ion 116.90 (116.60 to 117.60): VN051339.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN051339.D (-2980) (-)

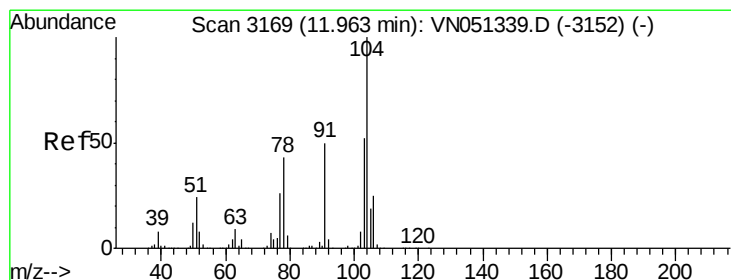
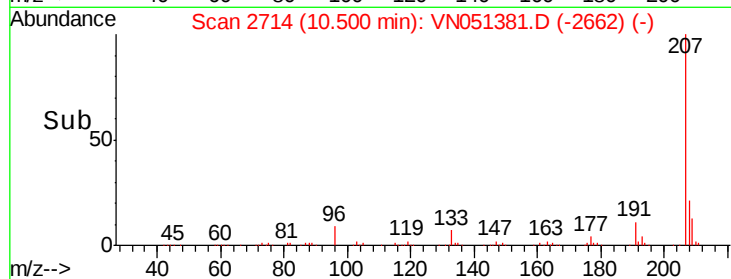
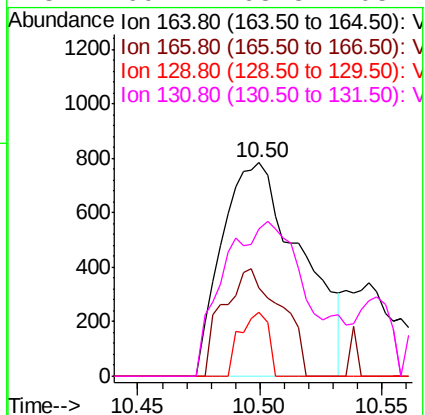
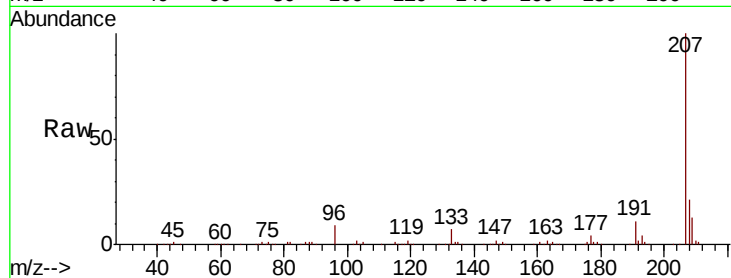
Ion 118.90 (118.60 to 119.60): VN051339.D (-2980) (-)





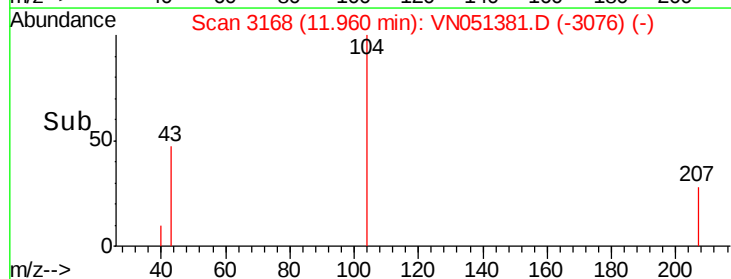
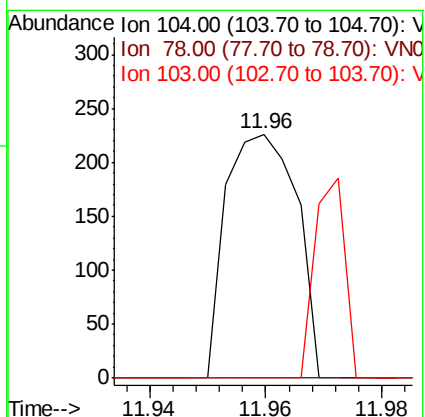
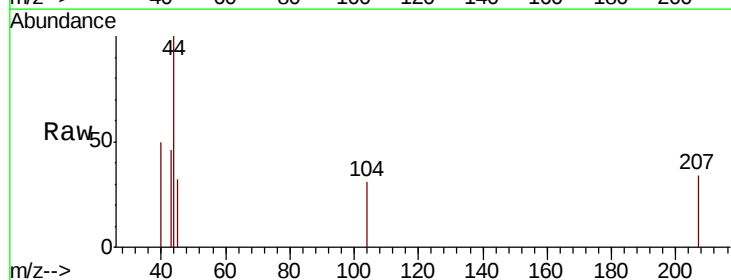
#64
Tetrachloroethene
Concen: 0.216 ug/l
RT: 10.50 min Scan# 2714
Delta R.T. -0.13 min
Lab File: VN051381.D
Acq: 21 Sep 2018 20:16

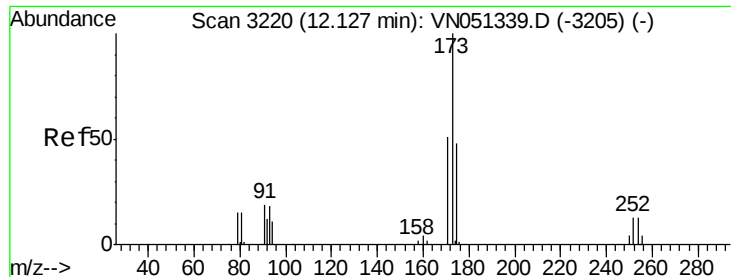
Tot Ion:164 Resp: 1773
Ion Ratio Lower Upper
164 100
166 41.6 102.1 153.1#
129 29.7 69.4 104.2#
131 69.1 68.8 103.2



#70
Styrene
Concen: 0.902 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. -0.00 min
Lab File: VN051381.D
Acq: 21 Sep 2018 20:16

Tgt Ion:104 Resp: 191
Ion Ratio Lower Upper
104 100
78 0.0 37.8 56.6#
103 35.1 44.3 66.5#





#71

Bromoform

Concen: 0.411 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN051381.D

Acq: 21 Sep 2018 20:16

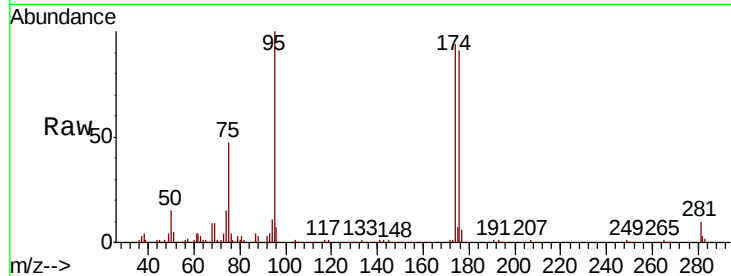
Tot Ion:173 Resp: 2392

Ion Ratio Lower Upper

173 100

175 1095.9 24.3 73.0#

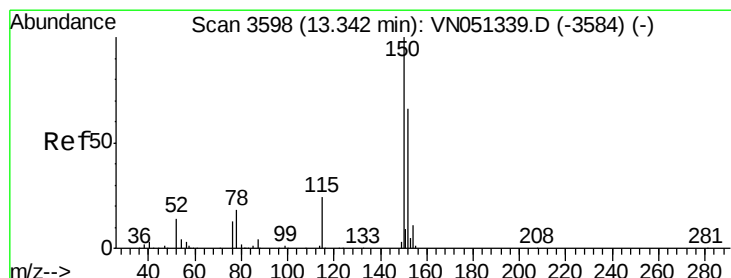
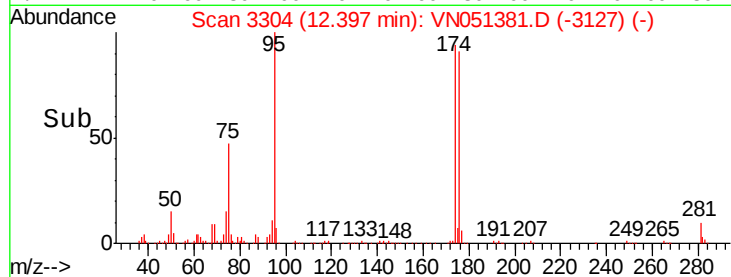
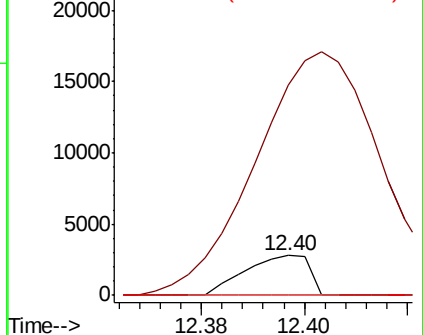
254 0.0 0.1 0.1#



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: VN051381.D

Acq: 21 Sep 2018 20:16

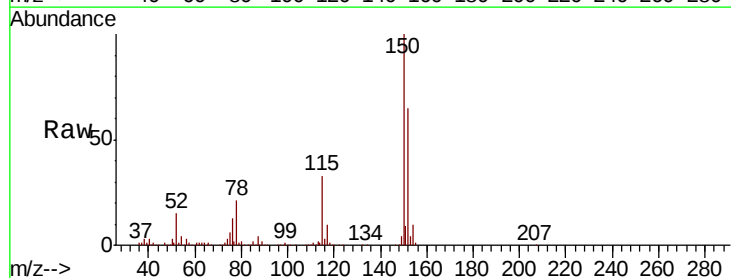
Tgt Ion:152 Resp: 357824

Ion Ratio Lower Upper

152 100

115 53.0 26.9 80.7

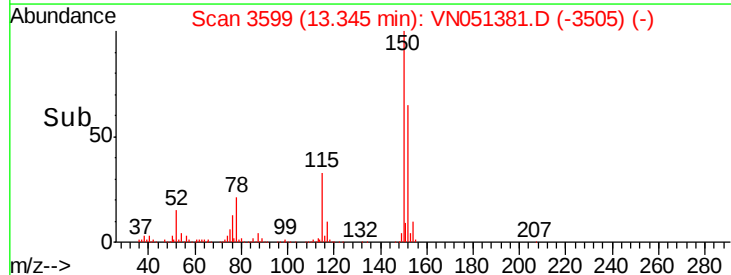
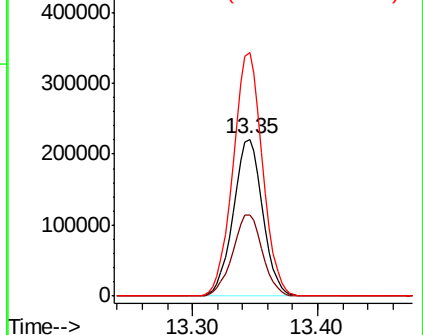
150 156.1 0.0 345.0

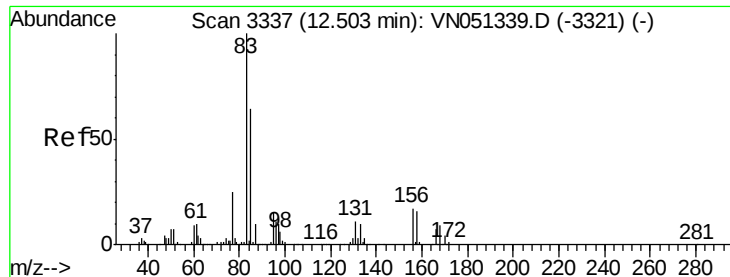


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3308

Delta R.T. -0.09 min

Lab File: VN051381.D

Acq: 21 Sep 2018 20:16

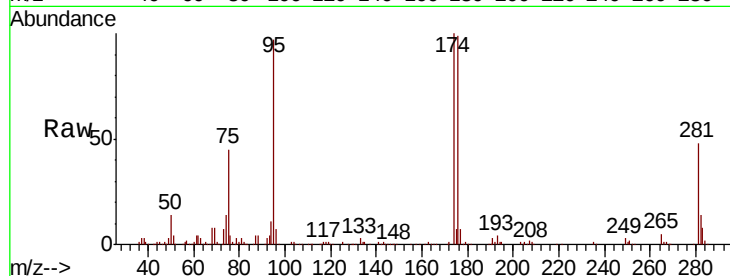
Tot Ion: 83 Resp: 389

Ion Ratio Lower Upper

83 100

131 239.8 5.5 16.7#

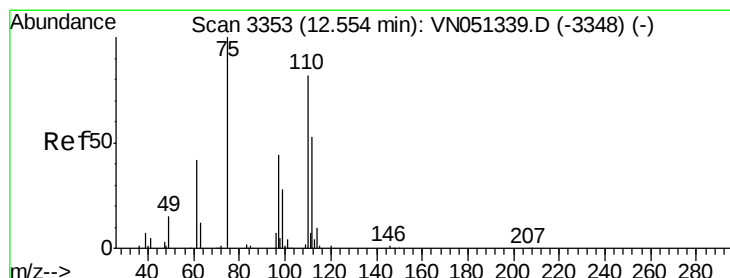
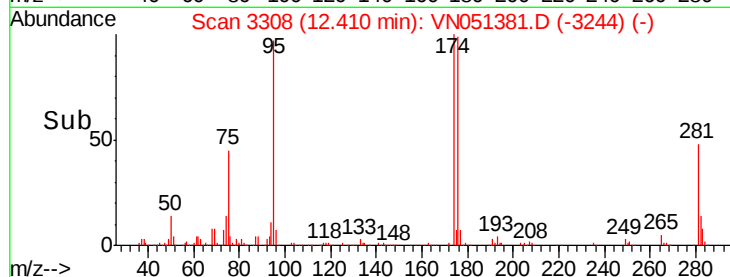
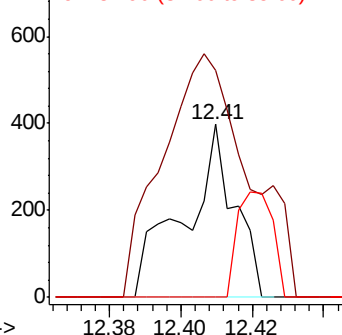
85 42.4 32.3 96.9



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 39.524 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051381.D

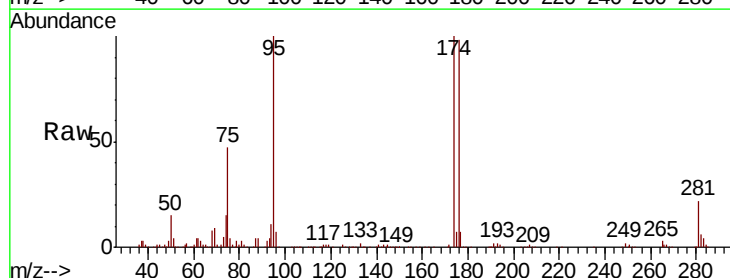
Acq: 21 Sep 2018 20:16

Tgt Ion: 75 Resp: 189344

Ion Ratio Lower Upper

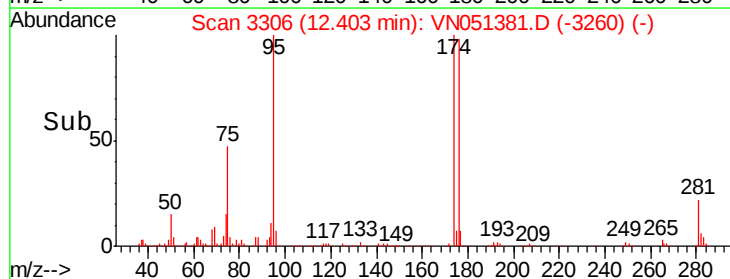
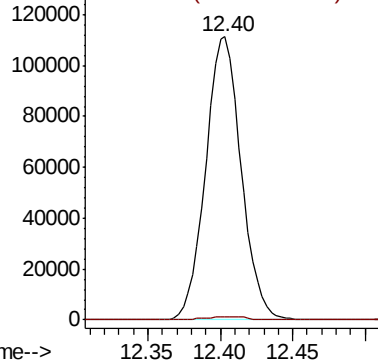
75 100

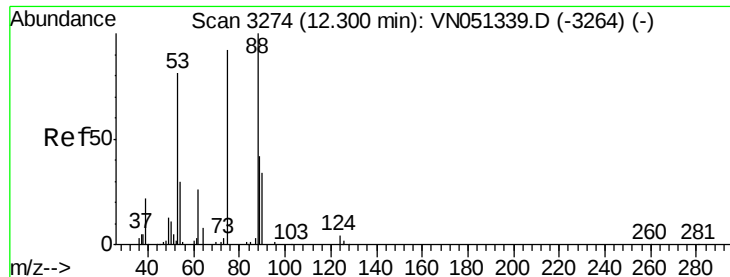
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

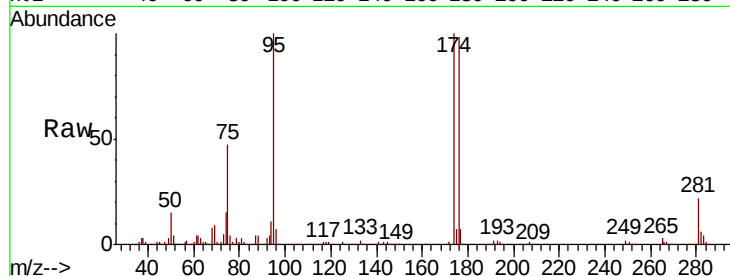
Ion 77.00 (76.70 to 77.70): VN0



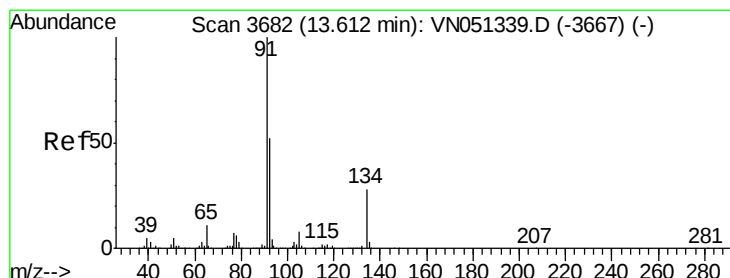
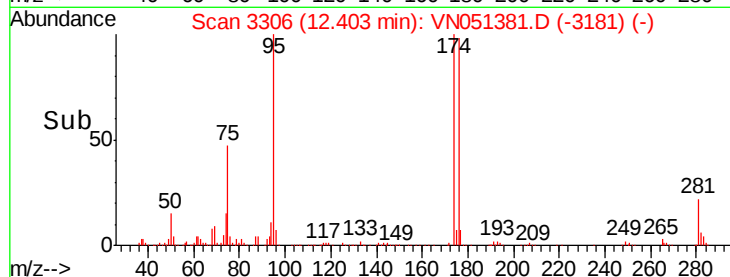
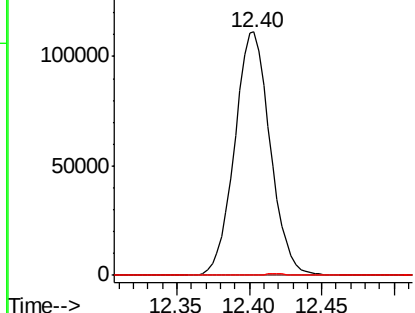


#81
trans-1,4-Dichloro-2-butene
Concen: 118.637 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051381.D
Acq: 21 Sep 2018 20:16

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.1	69.9	104.9#
89	0.0	37.9	56.9#

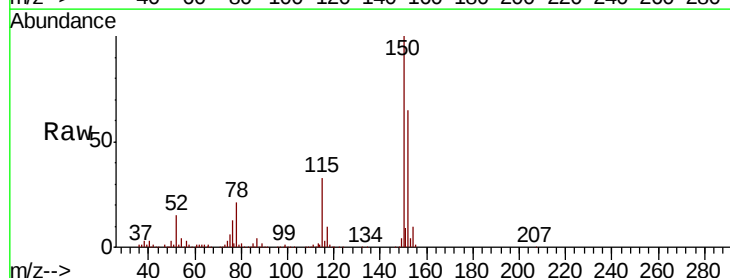


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

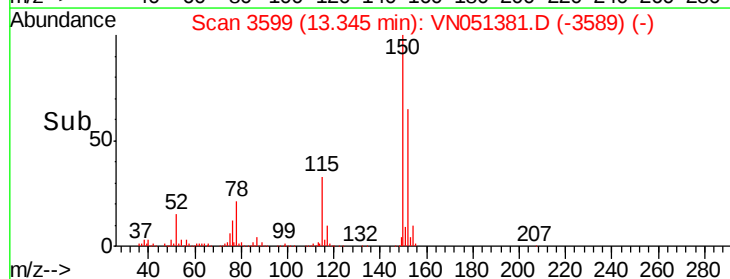
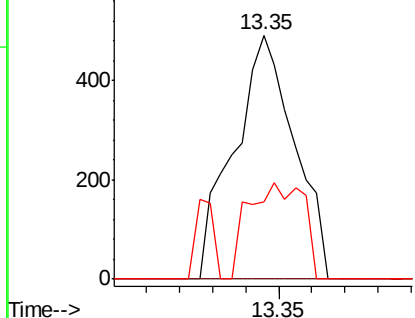


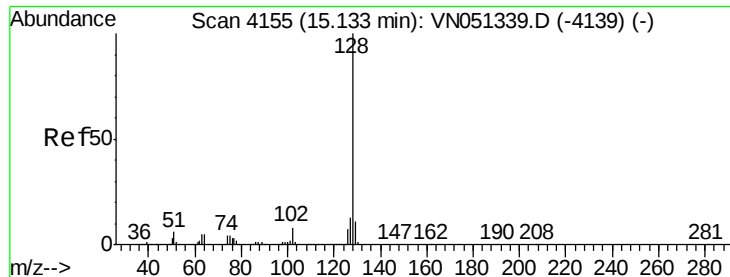
#89
n-Butylbenzene
Concen: 1.460 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.27 min
Lab File: VN051381.D
Acq: 21 Sep 2018 20:16

Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.0	78.0#
134	36.2	14.1	42.4



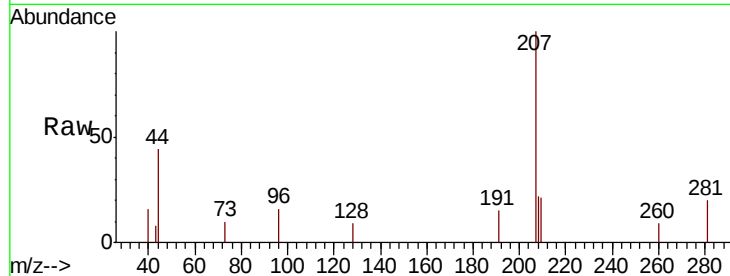
Abundance Ion 91.00 (90.70 to 91.70): VN0
Ion 92.00 (91.70 to 92.70): VN0
Ion 134.00 (133.70 to 134.70): V





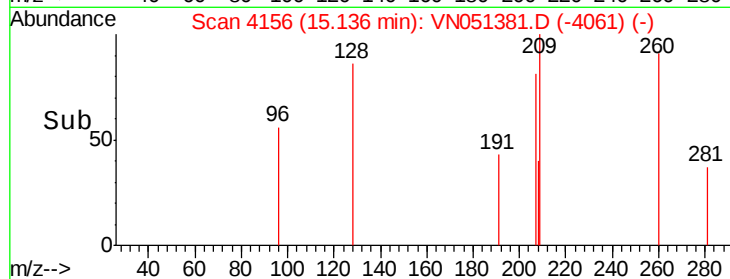
#95
 Naphthalene
 Concen: 5.336 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN051381.D
 Acq: 21 Sep 2018 20:16

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.6	13.0#



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

15.14



Time-->