

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092218\
 Data File : VN051379.D
 Acq On : 21 Sep 2018 19:27
 Operator : MD\SY
 Sample : PB113086ZHE#10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 21 23:04:27 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	752459	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1136319	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	950050	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	364844	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	429645	52.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.36%	
35) Dibromofluoromethane	7.59	113	421969	45.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.90%	
50) Toluene-d8	10.09	98	1511989	42.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.66%	
62) 4-Bromofluorobenzene	12.40	95	417699	36.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.74%	

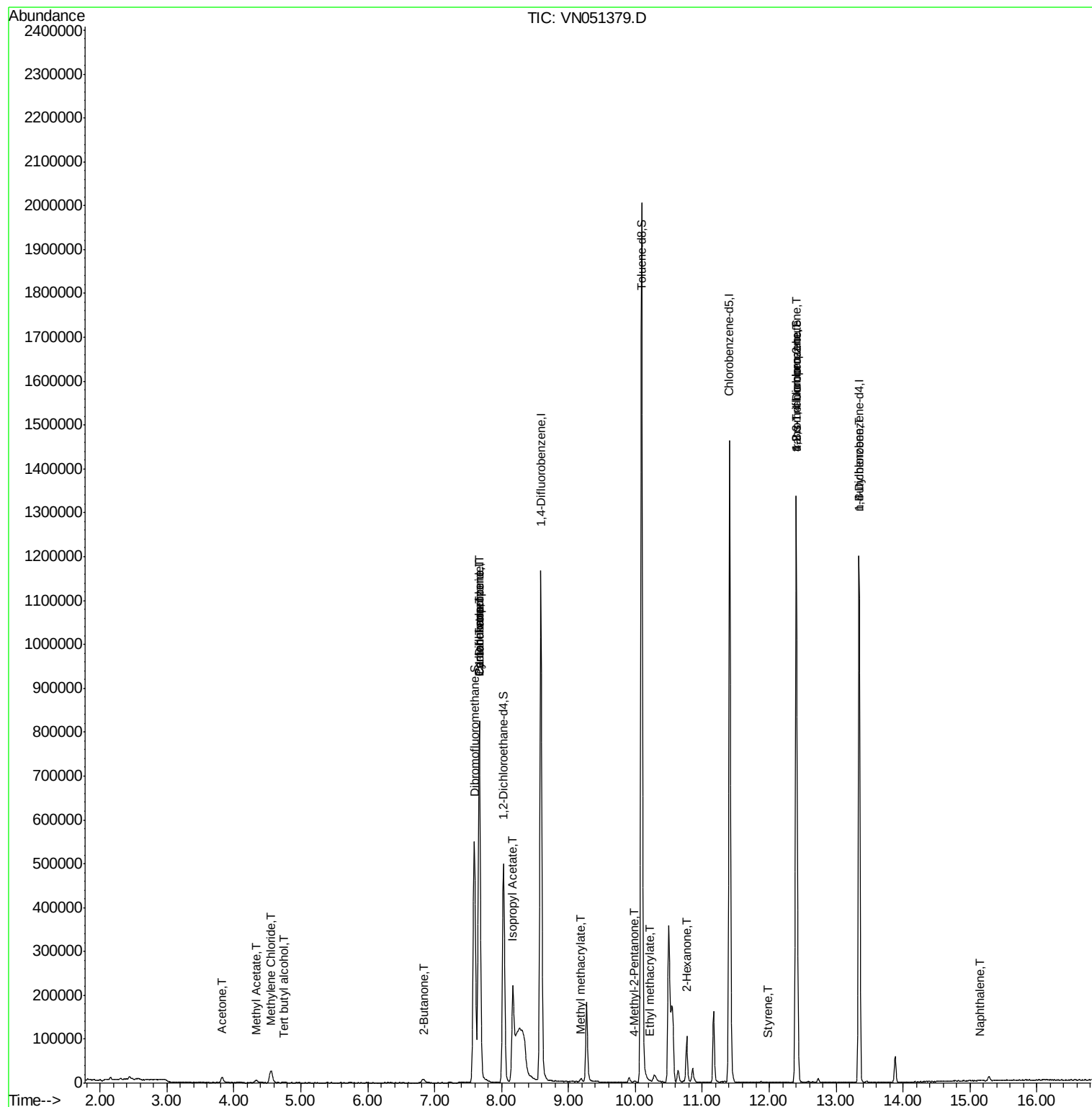
Target Compounds

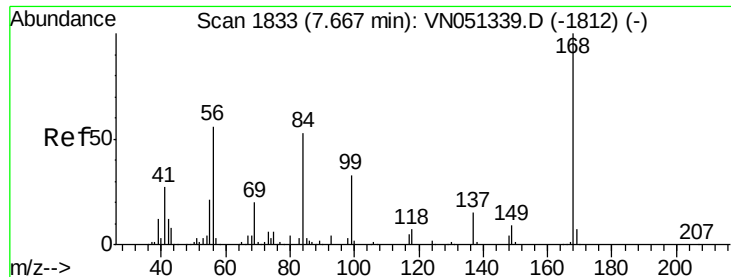
					Qvalue	
3) Chloromethane	2.06	50	922	Below Cal	#	82
11) Tert butyl alcohol	4.76	59	358	0.828	ug/l #	72
16) Acetone	3.82	43	20079	11.207	ug/l	97
18) Methyl Acetate	4.33	43	11270	1.294	ug/l	94
20) Methylene Chloride	4.55	84	23745	2.832	ug/l	91
25) 2-Butanone	6.85	43	4216	1.809	ug/l #	75
31) Cyclohexane	7.66	56	10922	0.459	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43863	3.774	ug/l #	48
38) Carbon Tetrachloride	7.67	117	62545	4.974	ug/l #	17
43) Isopropyl Acetate	8.17	43	268510	26.645	ug/l #	91
48) Methyl methacrylate	9.18	41	5362	1.044	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	2628	0.485	ug/l #	79
56) Ethyl methacrylate	10.22	69	1936	1.769	ug/l #	64
59) 2-Hexanone	10.77	43	14939	4.088	ug/l #	51
70) Styrene	11.97	104	271	0.905	ug/l #	26
75) 1,1,2,2-Tetrachloroethane	12.41	83	177	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	190659	39.009	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	190659	117.162	ug/l #	14
89) n-Butylbenzene	13.35	91	518	1.455	ug/l #	44
95) Naphthalene	15.13	128	66	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: VN051379.D

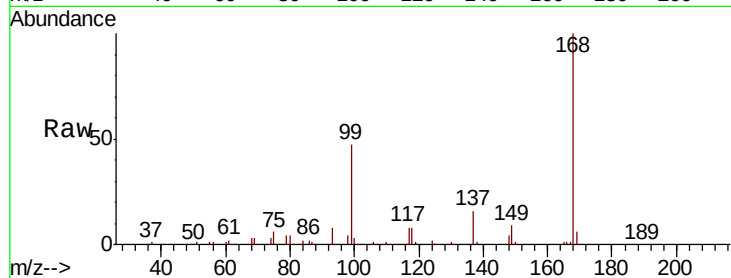
Acq: 21 Sep 2018 19:27

Tot Ion:168 Resp: 752459

Ion Ratio Lower Upper

168 100

99 46.8 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN051339.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN051339.D (-1812) (-)

7.67

300000

200000

100000

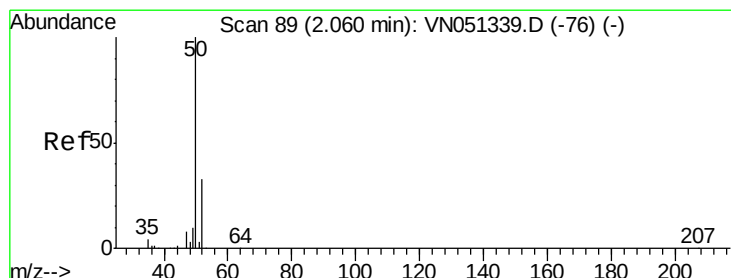
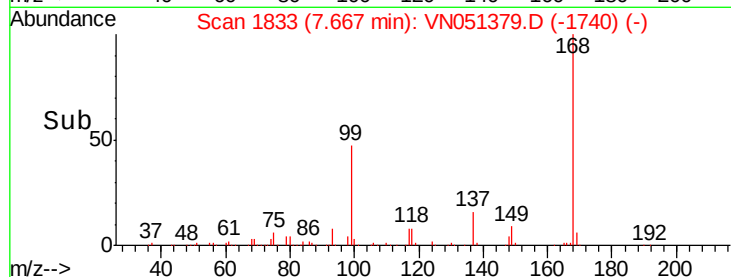
0

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: VN051379.D

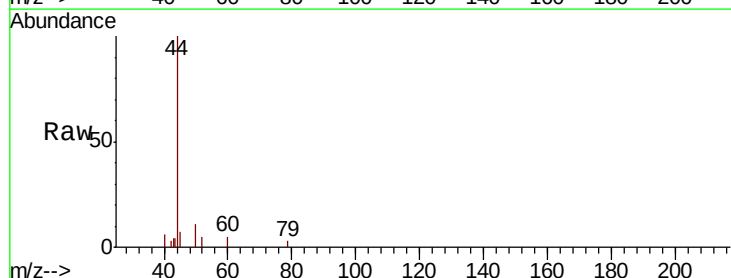
Acq: 21 Sep 2018 19:27

Tgt Ion: 50 Resp: 922

Ion Ratio Lower Upper

50 100

52 43.4 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VN051339.D (-76) (-)

Ion 51.90 (51.60 to 52.60): VN051339.D (-76) (-)

2.06

600

400

200

0

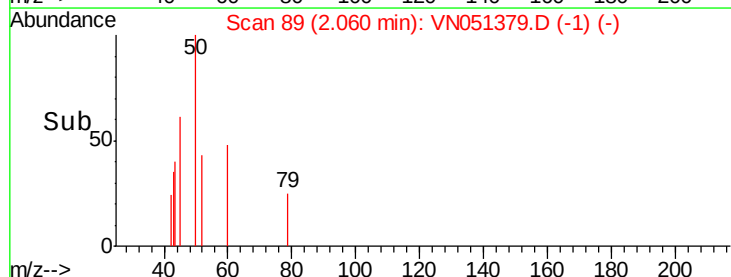
Time-->

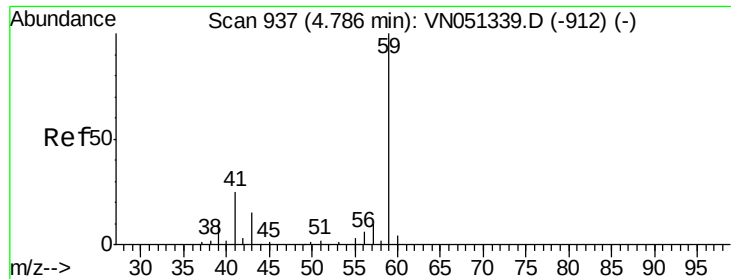
2.02

2.04

2.06

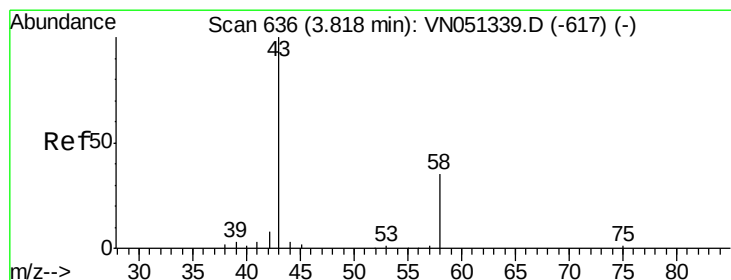
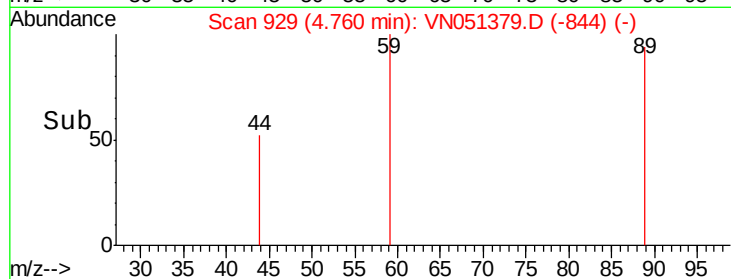
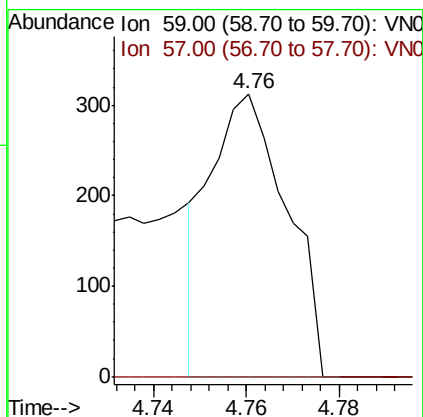
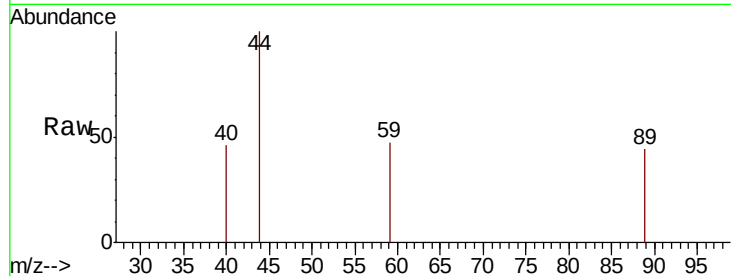
2.08





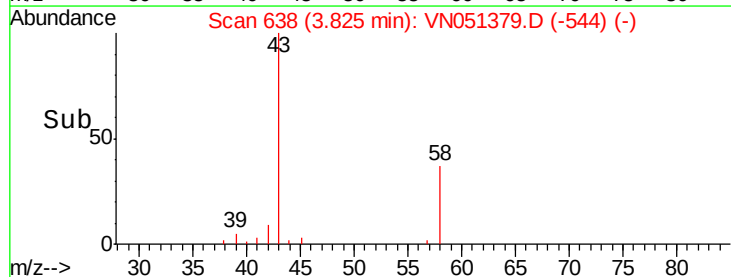
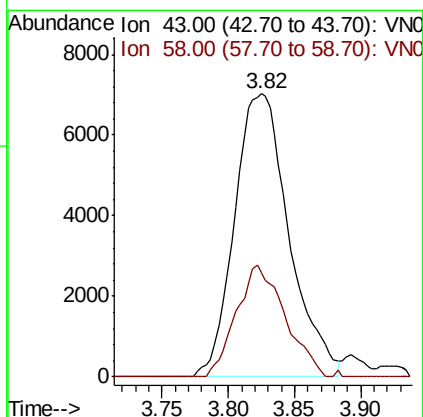
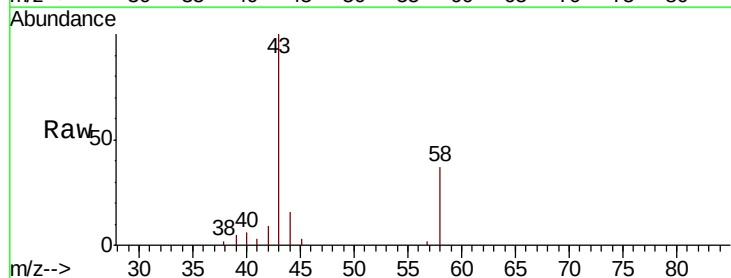
#11
Tert butyl alcohol
Concen: 0.828 ug/l
RT: 4.76 min Scan# 929
Delta R.T. -0.03 min
Lab File: VN051379.D
Acq: 21 Sep 2018 19:27

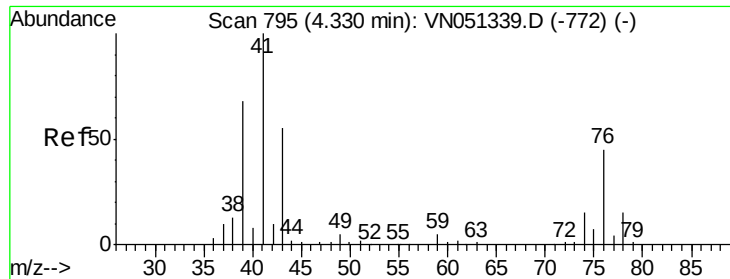
Tot Ion: 59 Resp: 358
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#16
Acetone
Concen: 11.207 ug/l
RT: 3.82 min Scan# 638
Delta R.T. 0.00 min
Lab File: VN051379.D
Acq: 21 Sep 2018 19:27

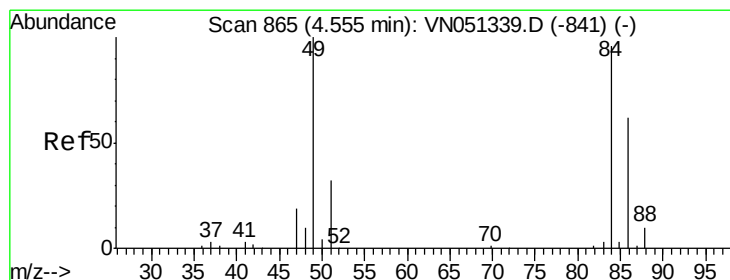
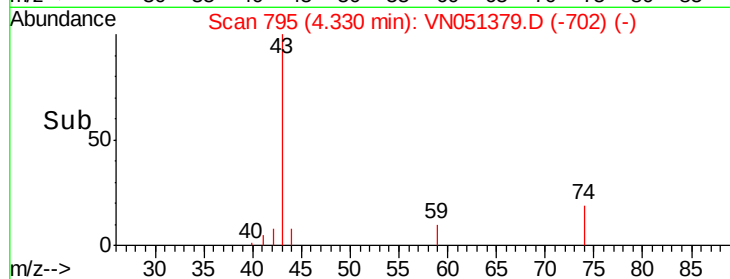
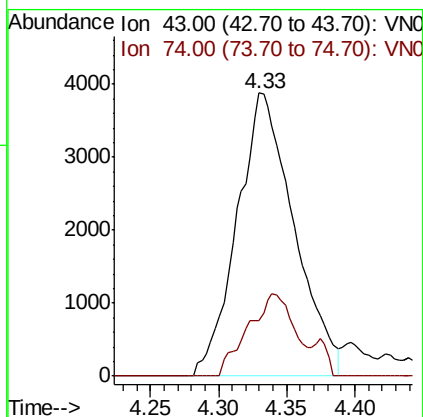
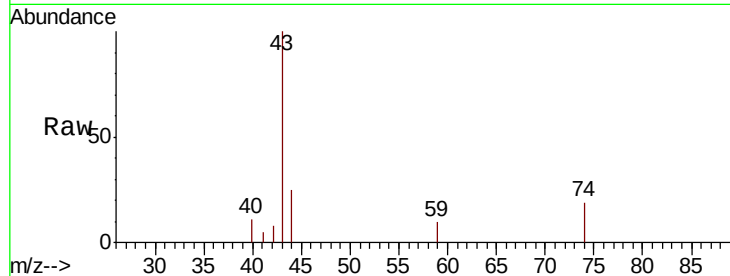
Tgt Ion: 43 Resp: 20079
Ion Ratio Lower Upper
43 100
58 37.0 28.3 42.5





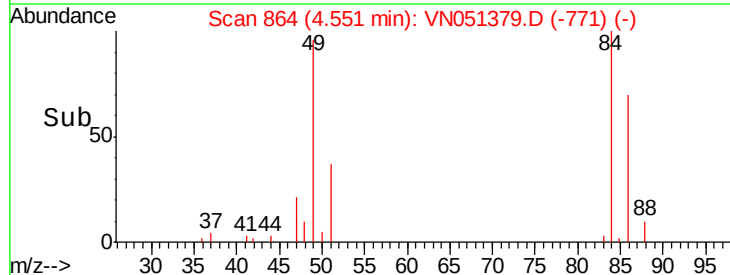
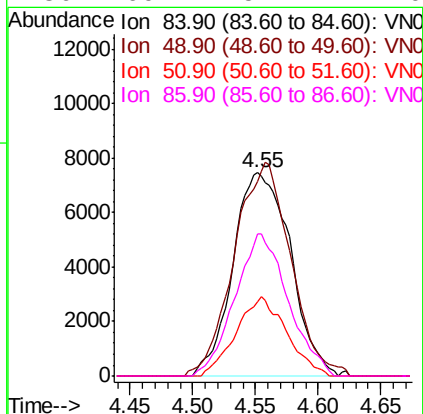
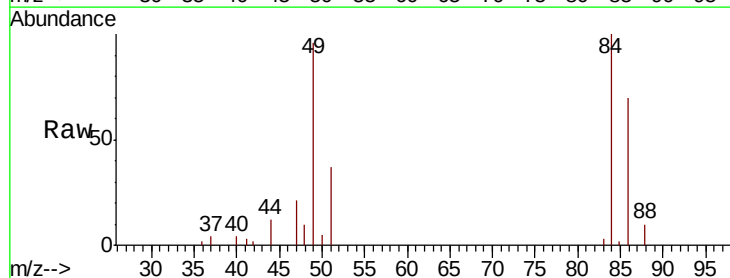
#18
Methvl Acetate
Concen: 1.294 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN051379.D
Acq: 21 Sep 2018 19:27

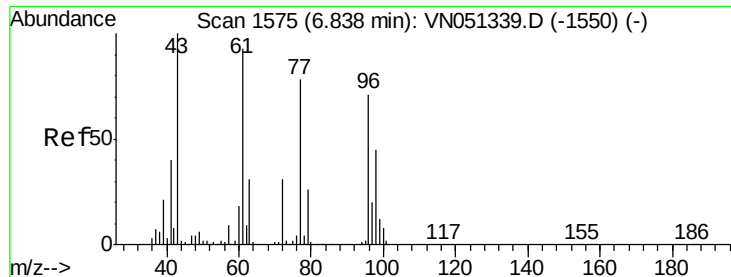
Tot Ion: 43 Resp: 11270
Ion Ratio Lower Upper
43 100
74 24.0 21.7 32.5



#20
Methylene Chloride
Concen: 2.832 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051379.D
Acq: 21 Sep 2018 19:27

Tgt Ion: 84 Resp: 23745
Ion Ratio Lower Upper
84 100
49 93.3 83.2 124.8
51 36.6 26.4 39.6
86 69.7 51.4 77.0





#25

2-Butanone

Concen: 1.809 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VN051379.D

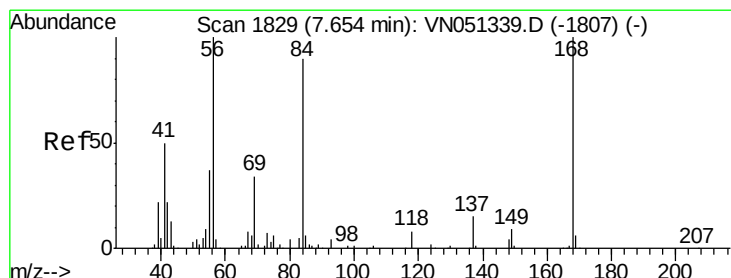
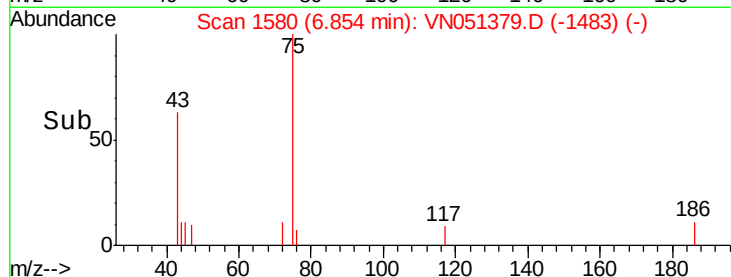
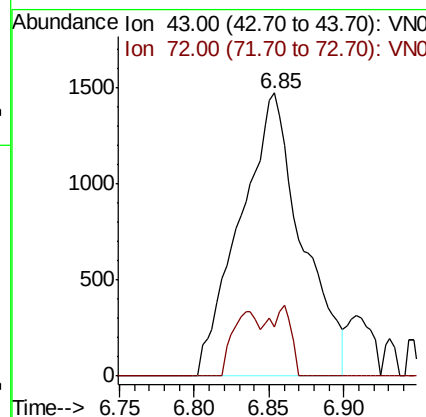
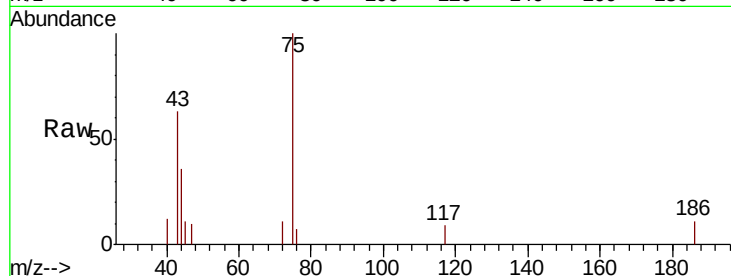
Acq: 21 Sep 2018 19:27

Tot Ion: 43 Resp: 4216

Ion Ratio Lower Upper

43 100

72 17.2 24.7 37.1#



#31

Cyclohexane

Concen: 0.459 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051379.D

Acq: 21 Sep 2018 19:27

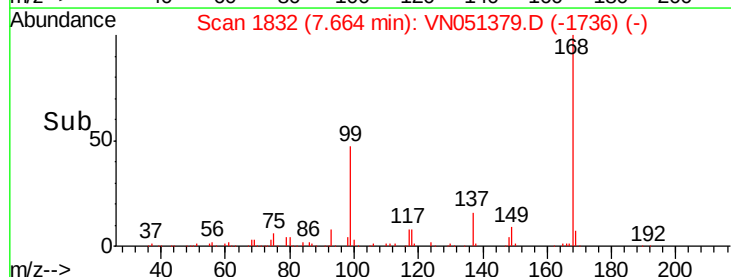
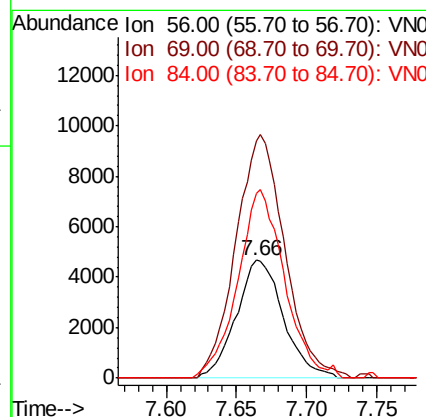
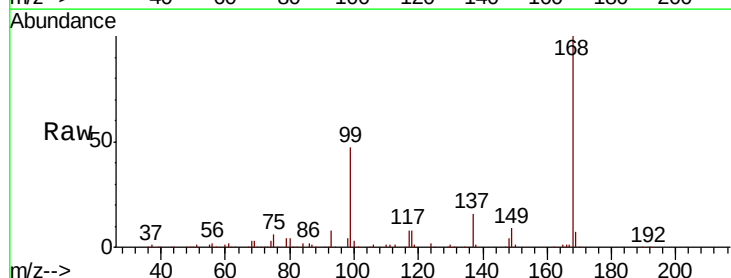
Tgt Ion: 56 Resp: 10922

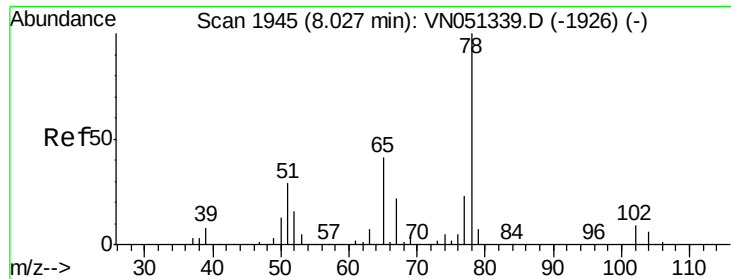
Ion Ratio Lower Upper

56 100

69 202.0 27.3 40.9#

84 156.8 72.2 108.2#





#33

1,2-Dichloroethane-d4

Concen: 52.681 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN051379.D

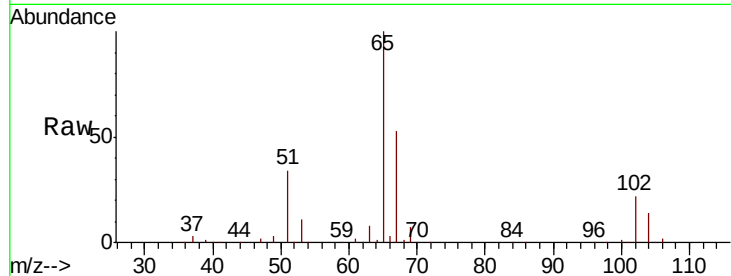
Acq: 21 Sep 2018 19:27

Tot Ion: 65 Resp: 429645

Ion Ratio Lower Upper

65 100

67 53.7 0.0 108.8



Abundance Ion 64.90 (64.60 to 65.60): VN051339.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN051339.D (-1926) (-)

8.03

200000

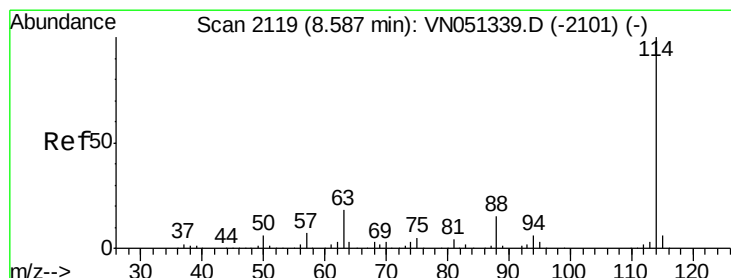
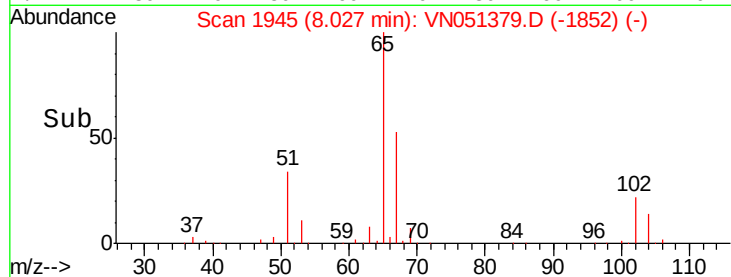
150000

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: VN051379.D

Acq: 21 Sep 2018 19:27

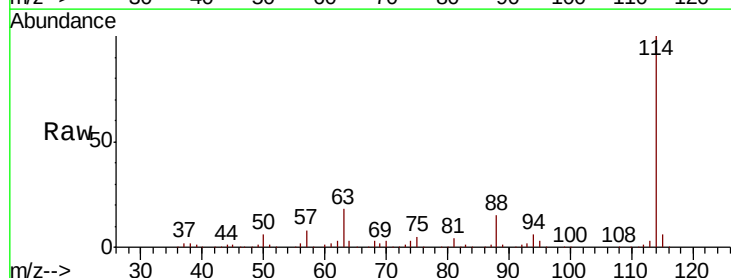
Tgt Ion: 114 Resp: 1136319

Ion Ratio Lower Upper

114 100

63 17.7 0.0 36.6

88 15.2 0.0 29.8



Abundance Ion 113.90 (113.60 to 114.60): VN051339.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN051339.D (-2101) (-)

Ion 87.90 (87.60 to 88.60): VN051339.D (-2101) (-)

8.59

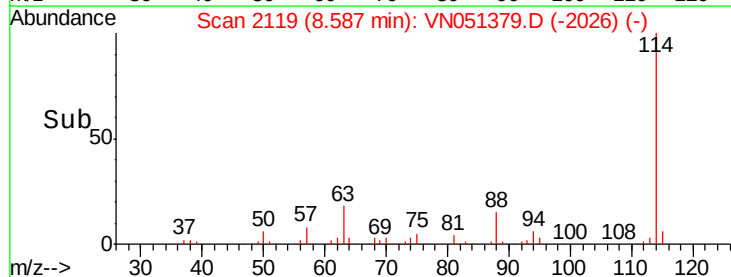
600000

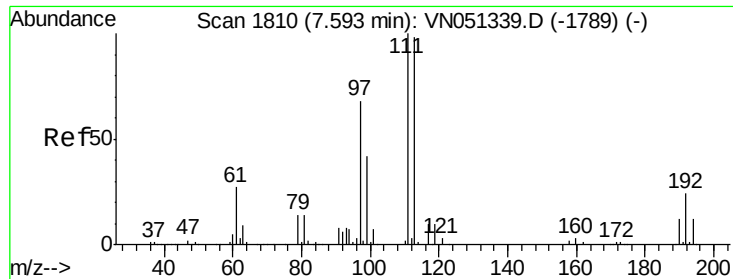
400000

200000

0

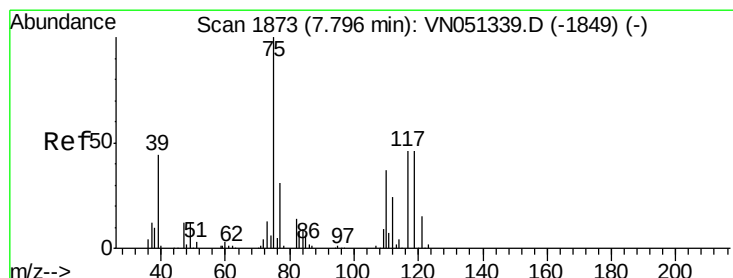
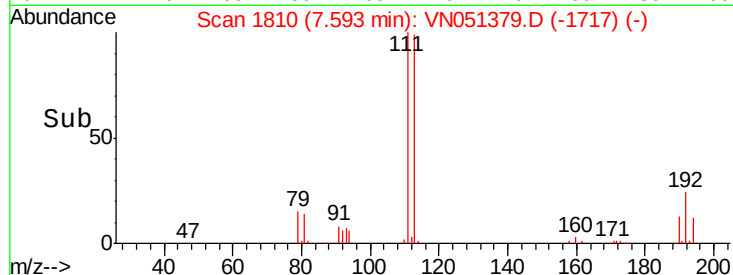
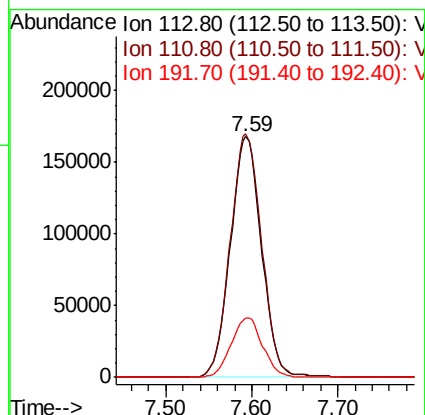
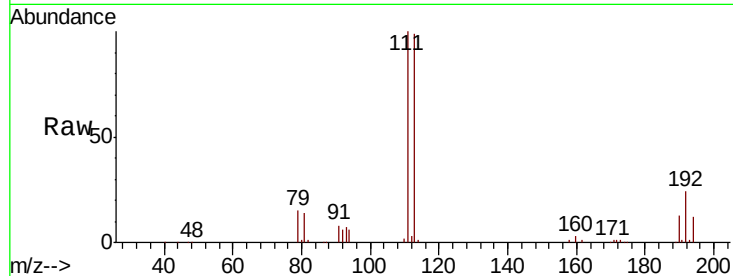
Time--> 8.50 8.60 8.70





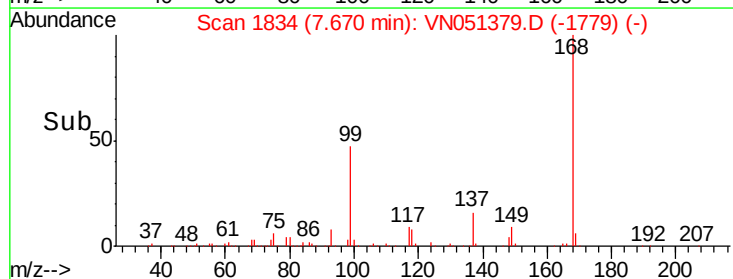
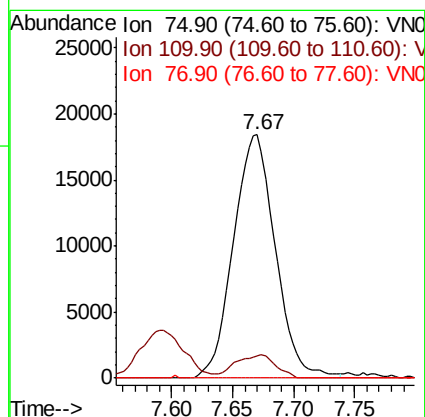
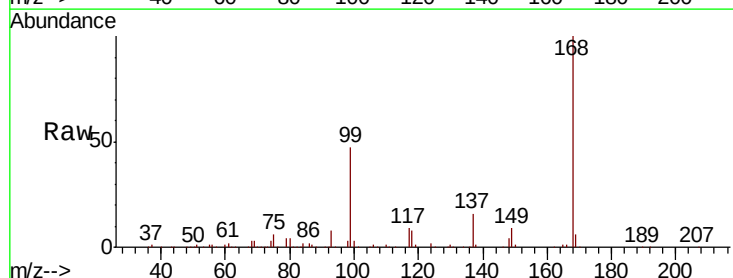
#35
 Dibromofluoromethane
 Concen: 45.951 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051379.D
 Acq: 21 Sep 2018 19:27

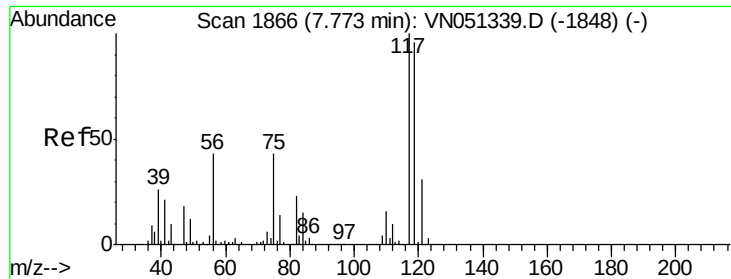
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	81.9	122.9
192	24.9	19.8	29.6



#36
 1,1-Dichloropropene
 Concen: 3.774 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051379.D
 Acq: 21 Sep 2018 19:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	18.9	56.5#
77	0.0	25.4	38.2#





#38

Carbon Tetrachloride

Concen: 4.974 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN051379.D

Acq: 21 Sep 2018 19:27

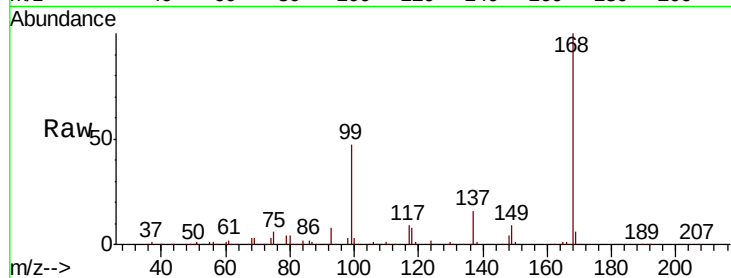
Tot Ion:117 Resp: 62545

Ion Ratio Lower Upper

117 100

119 7.1 77.0 115.4#

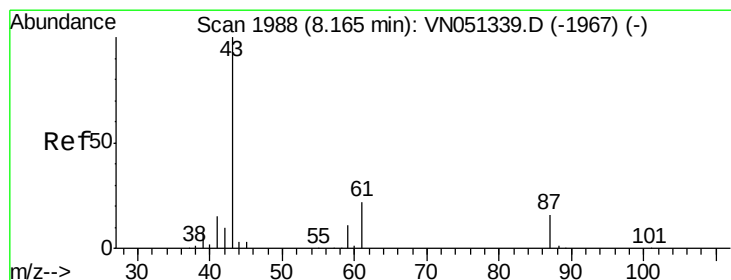
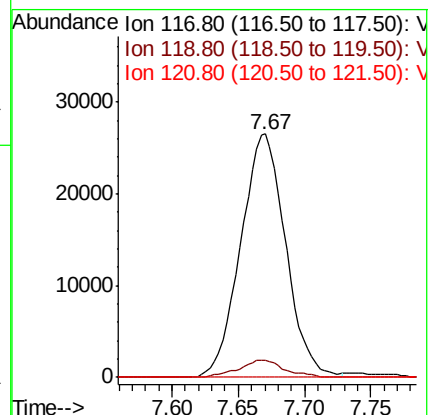
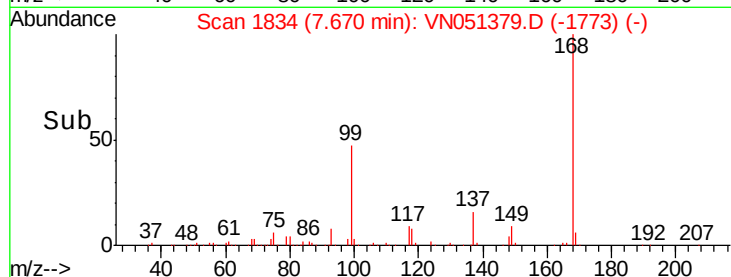
121 0.0 25.0 37.4#



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



#43

Isopropyl Acetate

Concen: 26.645 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051379.D

Acq: 21 Sep 2018 19:27

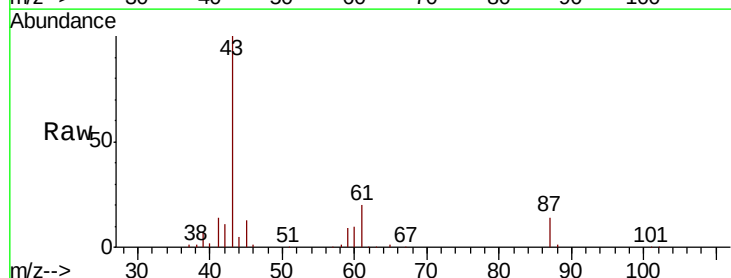
Tgt Ion: 43 Resp: 268510

Ion Ratio Lower Upper

43 100

61 18.0 18.1 27.1#

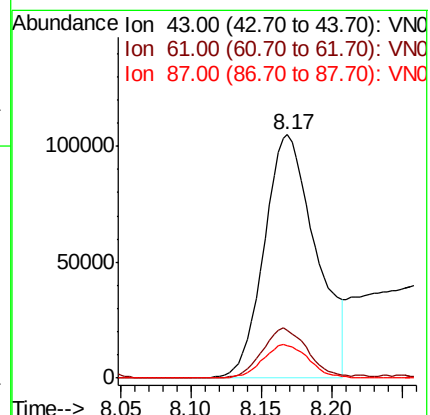
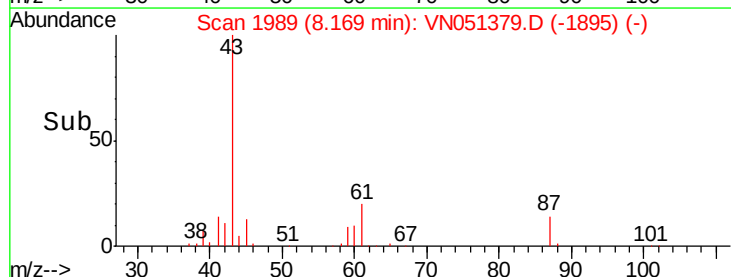
87 12.1 12.8 19.2#

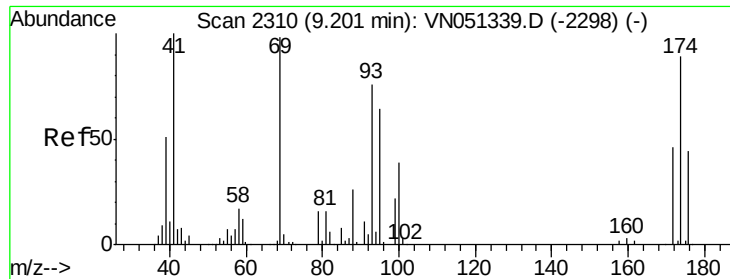


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#48

Methvl methacrylate

Concen: 1.044 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN051379.D

Acq: 21 Sep 2018 19:27

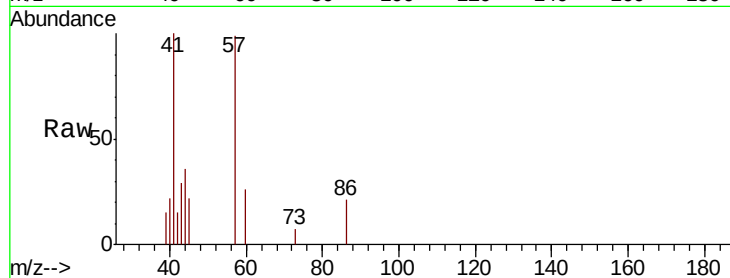
Tot Ion: 41 Resp: 5362

Ion Ratio Lower Upper

41 100

69 0.0 79.4 119.0#

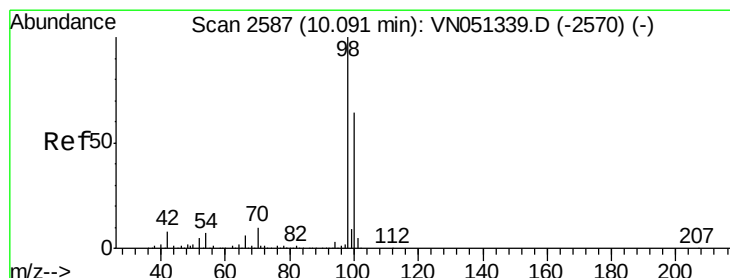
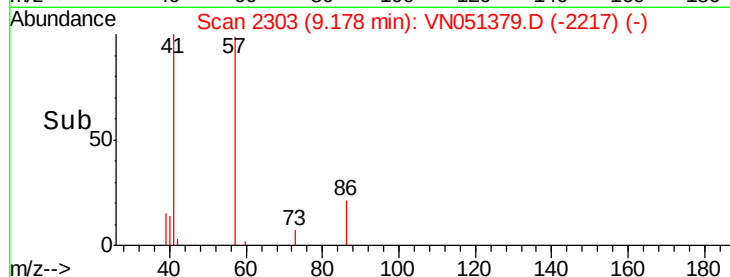
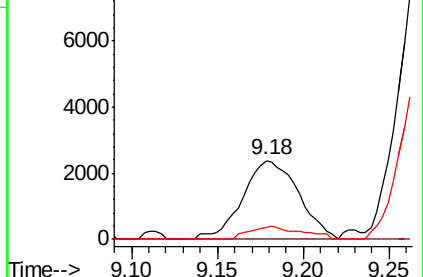
39 15.4 43.0 64.6#



Abundance Ion 41.00 (40.70 to 41.70): VN051339.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN051339.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051339.D (-2298) (-)



#50

Toluene-d8

Concen: 42.830 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051379.D

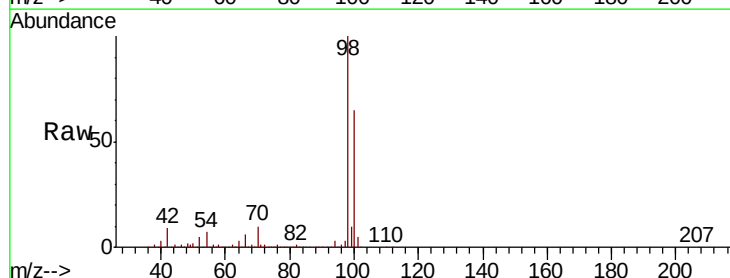
Acq: 21 Sep 2018 19:27

Tgt Ion: 98 Resp: 1511989

Ion Ratio Lower Upper

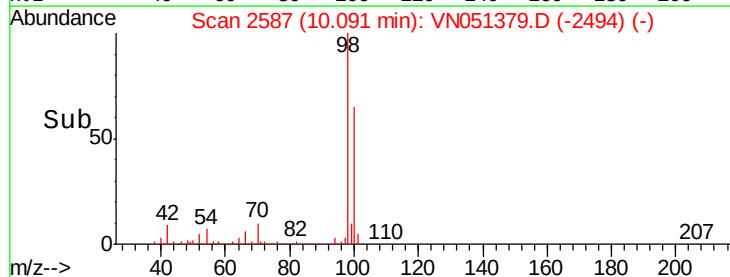
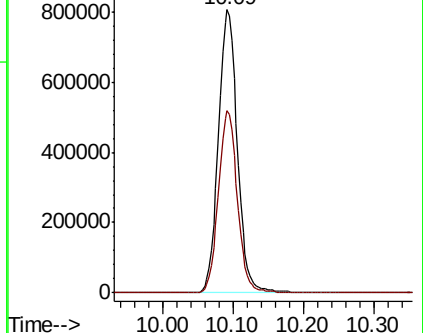
98 100

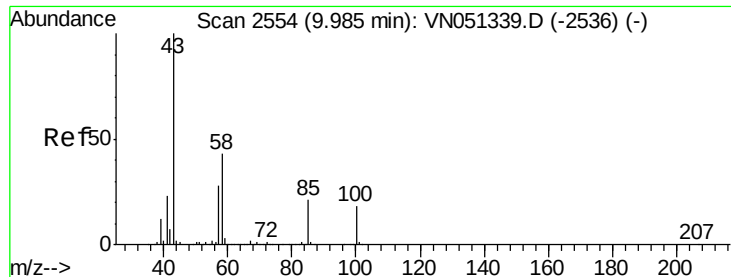
100 64.3 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN051339.D (-2570) (-)

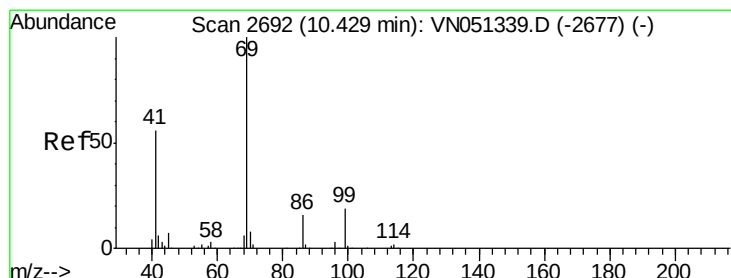
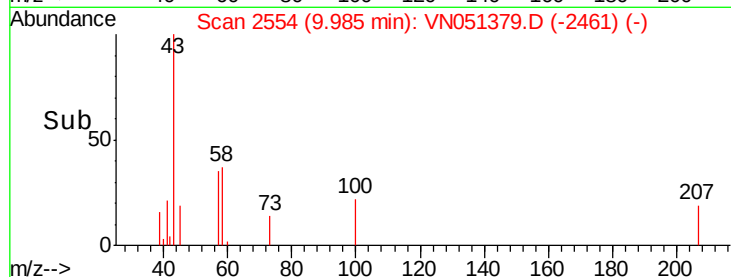
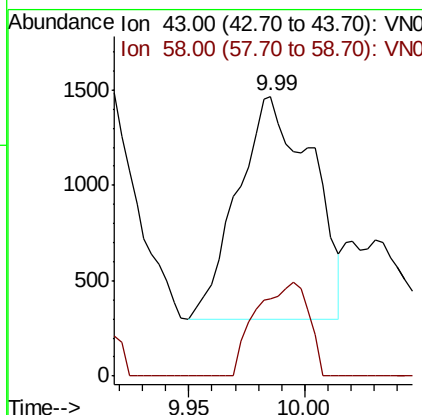
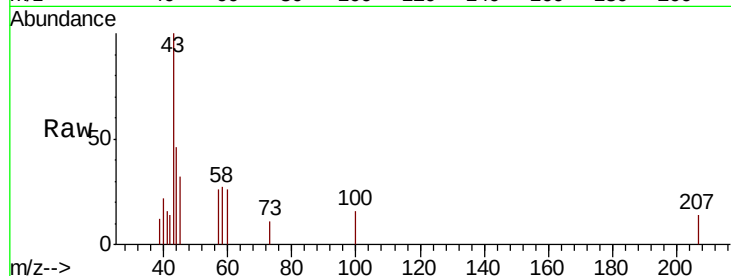
Ion 100.00 (99.70 to 100.70): VN051339.D (-2570) (-)





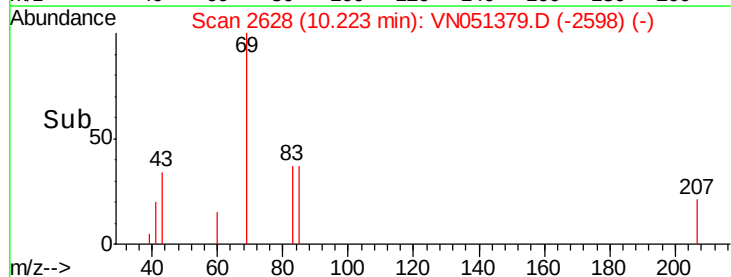
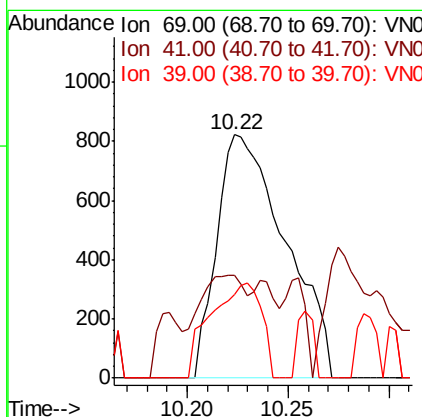
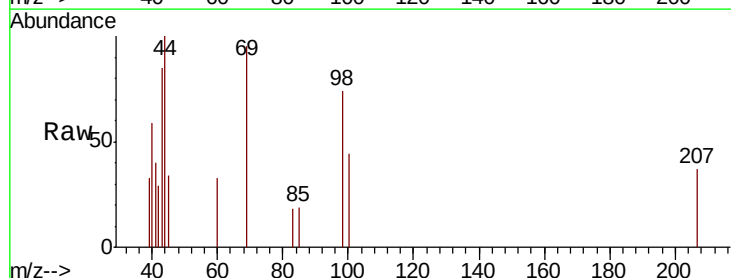
#51
 4-Methyl-2-Pentanone
 Concen: 0.485 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN051379.D
 Acq: 21 Sep 2018 19:27

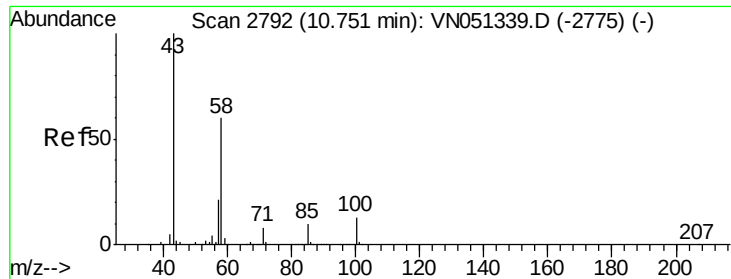
Tot Ion: 43 Resp: 2628
 Ion Ratio Lower Upper
 43 100
 58 29.5 34.2 51.4#



#56
 Ethyl methacrylate
 Concen: 1.769 ug/l
 RT: 10.22 min Scan# 2628
 Delta R.T. -0.20 min
 Lab File: VN051379.D
 Acq: 21 Sep 2018 19:27

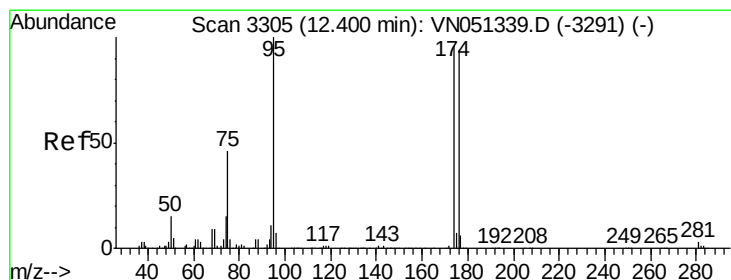
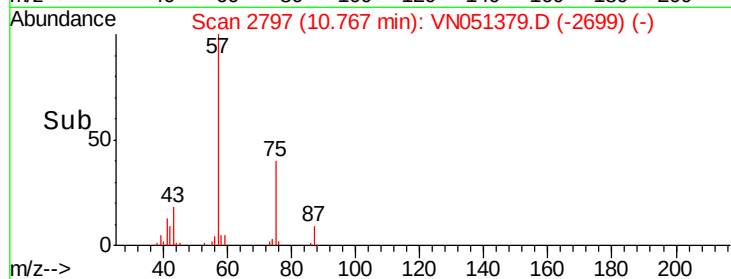
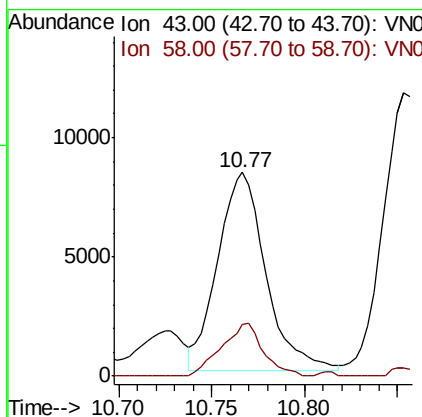
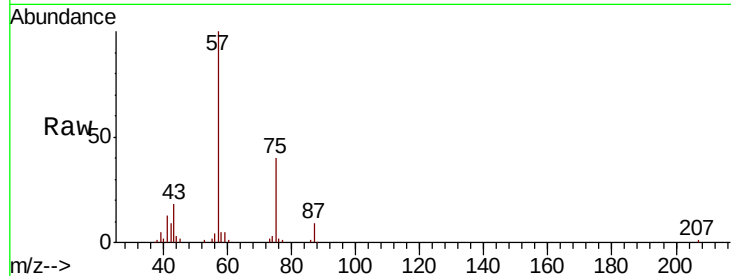
Tgt Ion: 69 Resp: 1936
 Ion Ratio Lower Upper
 69 100
 41 16.2 45.1 67.7#
 39 29.0 23.4 35.2





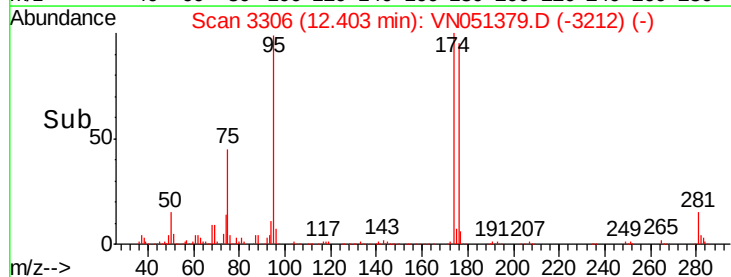
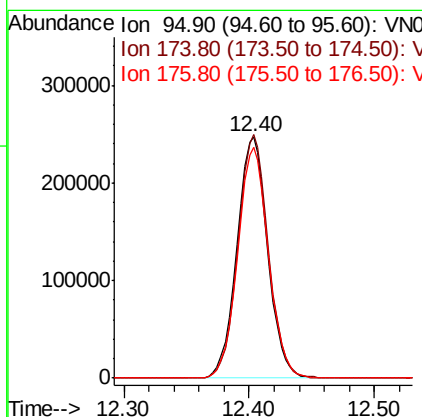
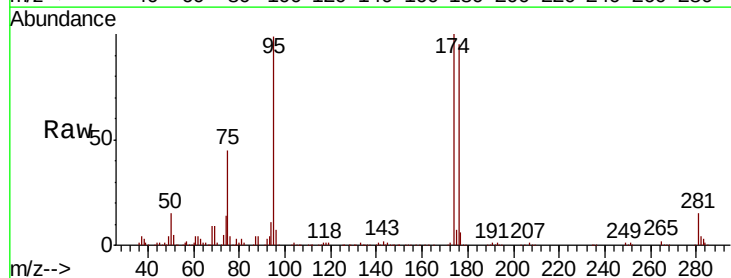
#59
2-Hexanone
Concen: 4.088 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN051379.D
Acq: 21 Sep 2018 19:27

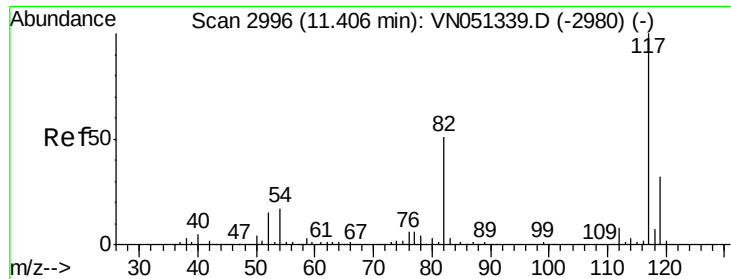
Tot Ion: 43 Resp: 14939
Ion Ratio Lower Upper
43 100
58 23.1 29.9 89.8#



#62
4-Bromofluorobenzene
Concen: 36.370 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051379.D
Acq: 21 Sep 2018 19:27

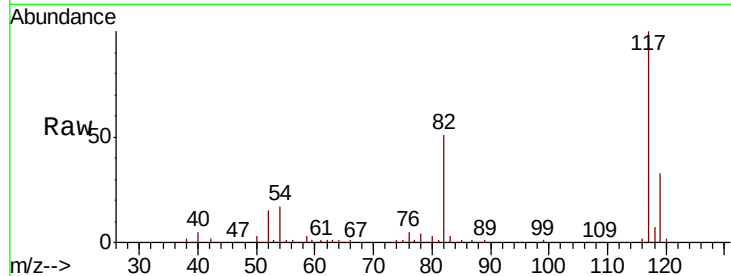
Tgt Ion: 95 Resp: 417699
Ion Ratio Lower Upper
95 100
174 100.3 0.0 194.6
176 95.9 0.0 189.6



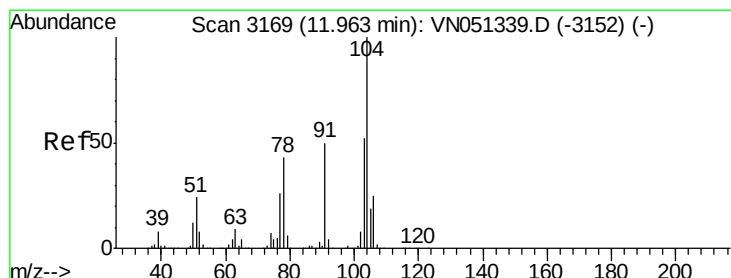
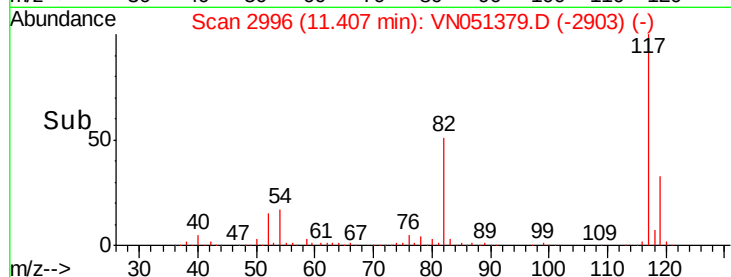
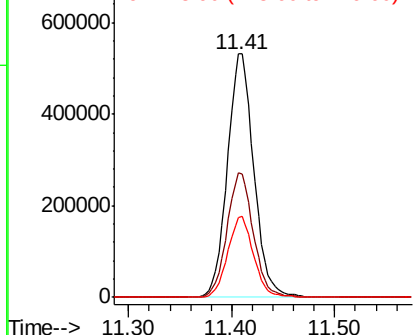


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051379.D
Acq: 21 Sep 2018 19:27

Tot Ion:117 Resp: 950050
Ion Ratio Lower Upper
117 100
82 51.0 40.7 61.1
119 32.8 25.3 37.9

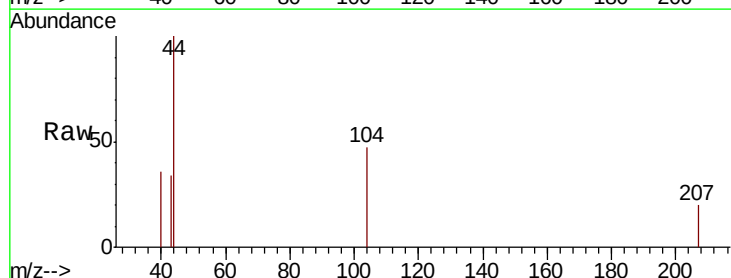


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): V

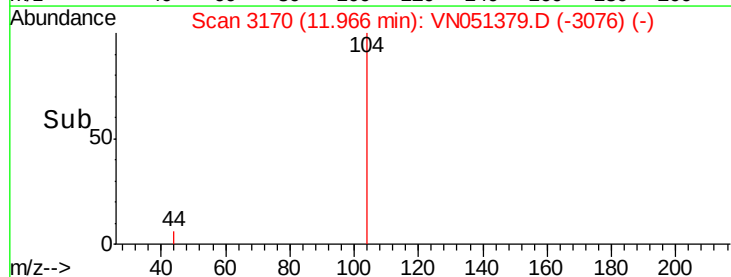
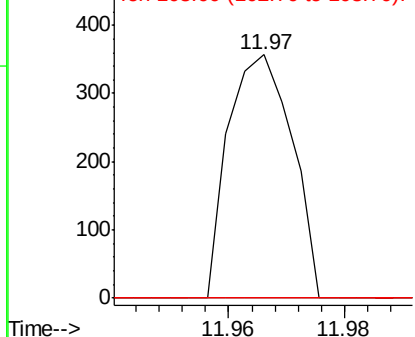


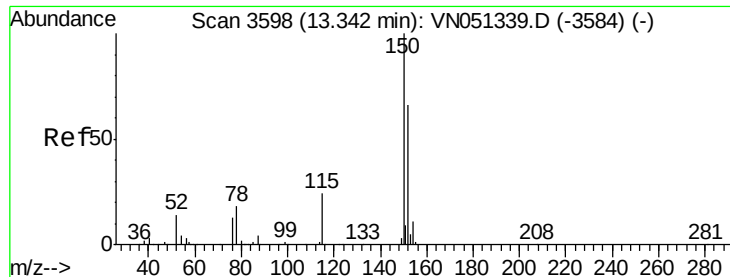
#70
Styrene
Concen: 0.905 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN051379.D
Acq: 21 Sep 2018 19:27

Tgt Ion:104 Resp: 271
Ion Ratio Lower Upper
104 100
78 0.0 37.8 56.6#
103 0.0 44.3 66.5#



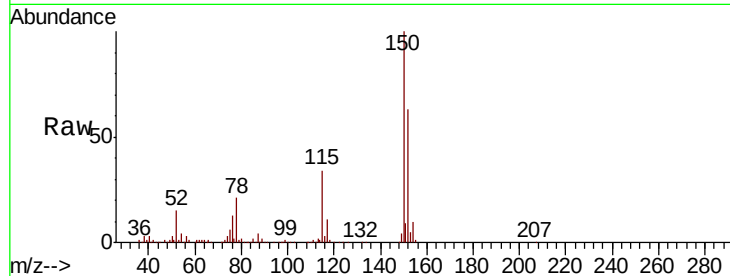
Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN0
Ion 103.00 (102.70 to 103.70): V



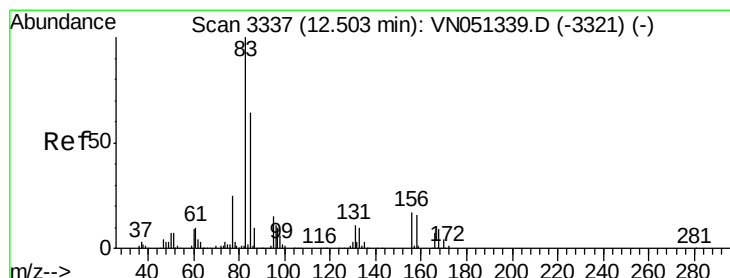
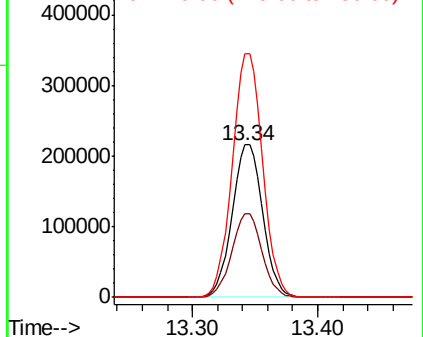
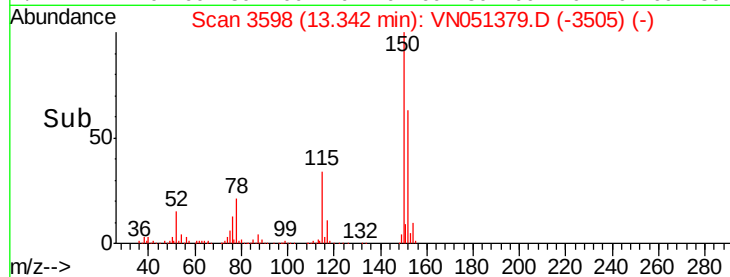


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.34 min Scan# 3598
 Delta R.T. -0.00 min
 Lab File: VN051379.D
 Acq: 21 Sep 2018 19:27

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.3	26.9	80.7
150	158.7	0.0	345.0

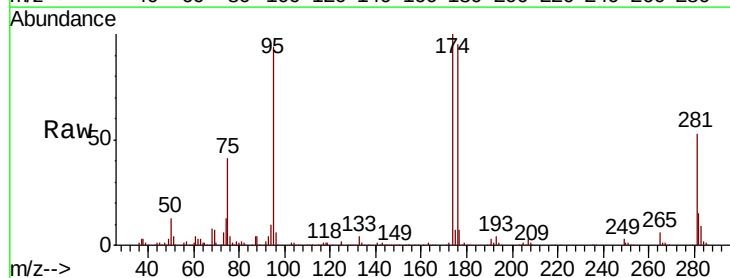


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

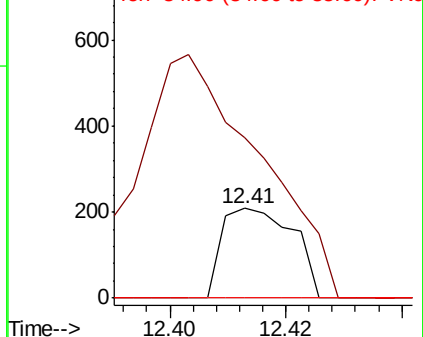
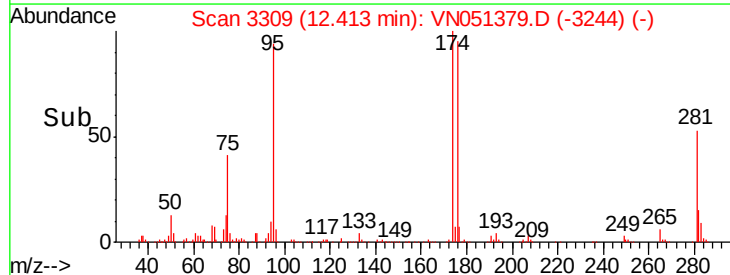


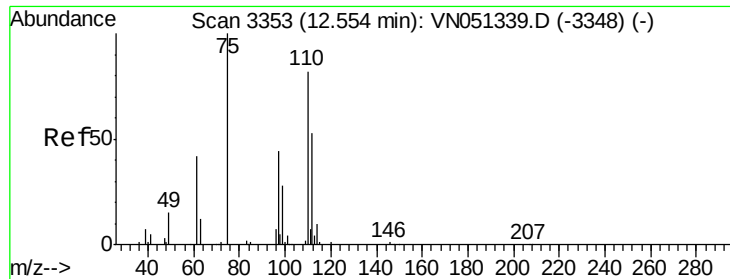
#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.41 min Scan# 3309
 Delta R.T. -0.09 min
 Lab File: VN051379.D
 Acq: 21 Sep 2018 19:27

Tgt Ion	Ratio	Lower	Upper
83	100		
131	454.8	5.5	16.7#
85	0.0	32.3	96.9#



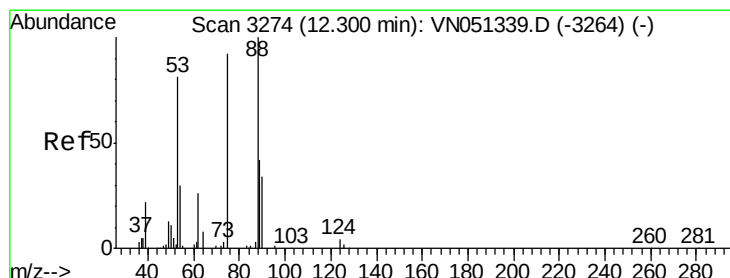
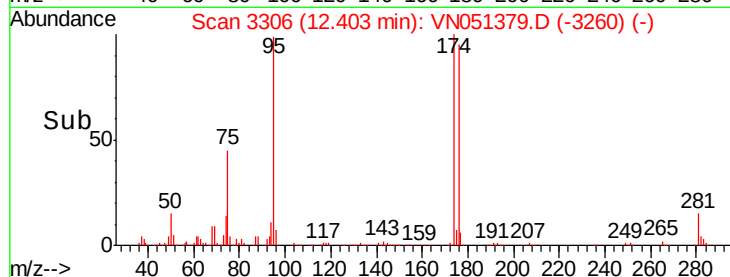
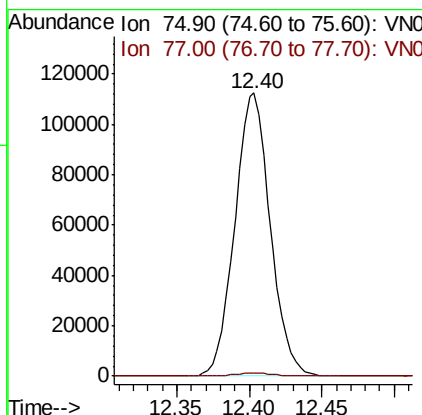
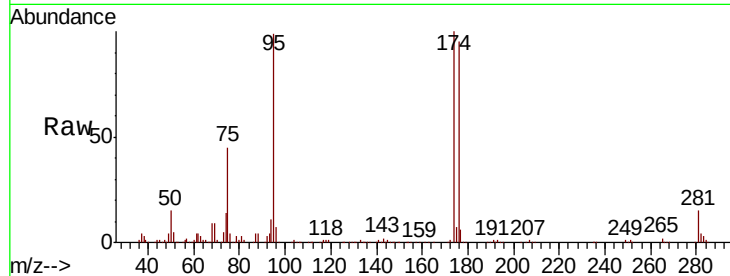
Abundance Ion 82.90 (82.60 to 83.60): VNO
 Ion 130.80 (130.50 to 131.50): V
 Ion 84.90 (84.60 to 85.60): VNO





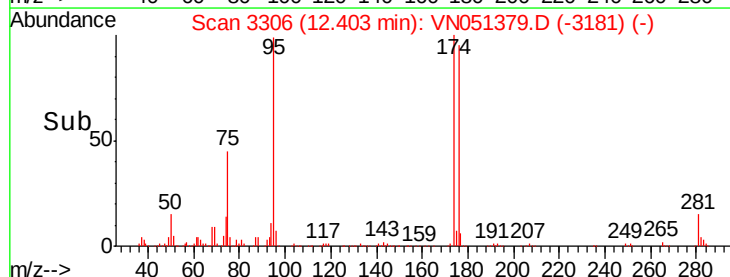
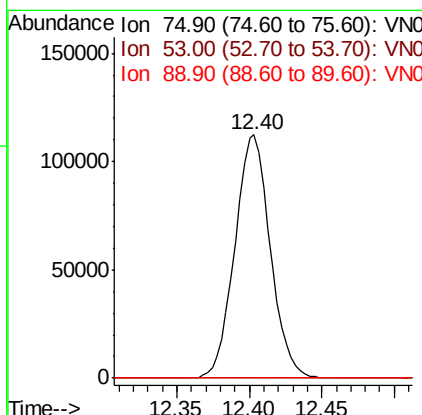
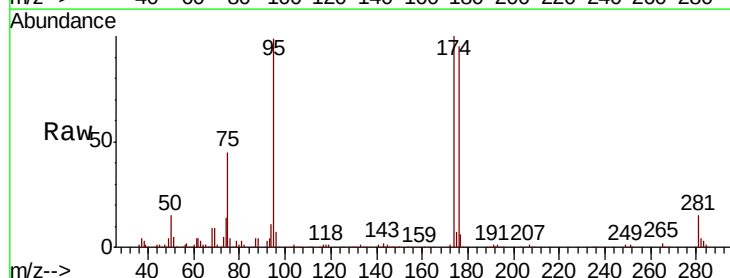
#76
 1,2,3-Trichloropropane
 Concen: 39.009 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN051379.D
 Acq: 21 Sep 2018 19:27

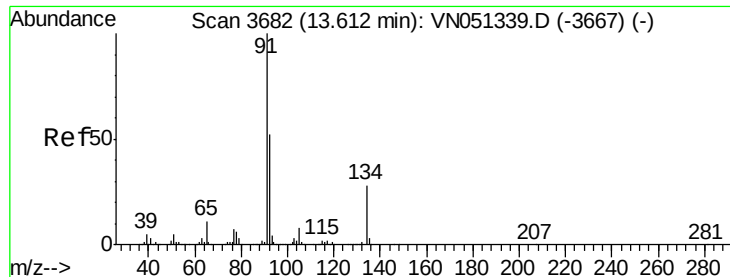
Tot Ion: 75 Resp: 190659
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 117.162 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN051379.D
 Acq: 21 Sep 2018 19:27

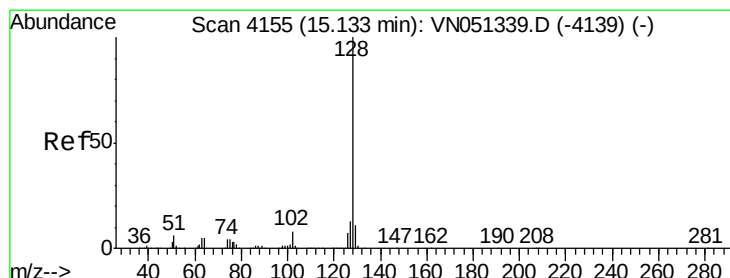
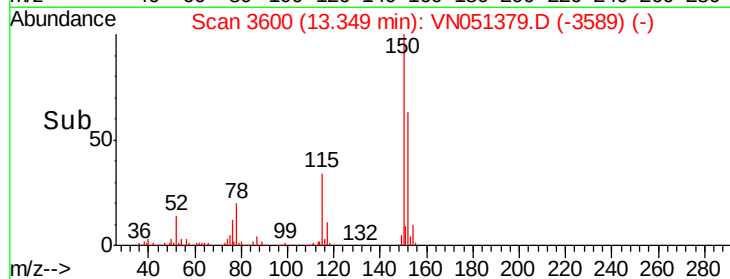
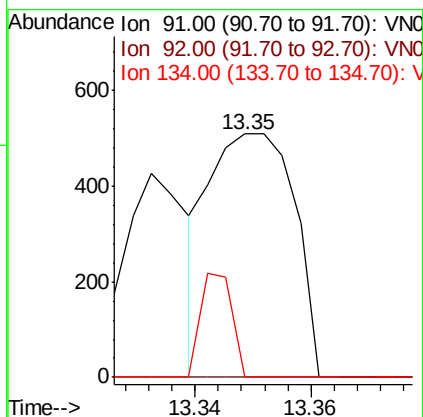
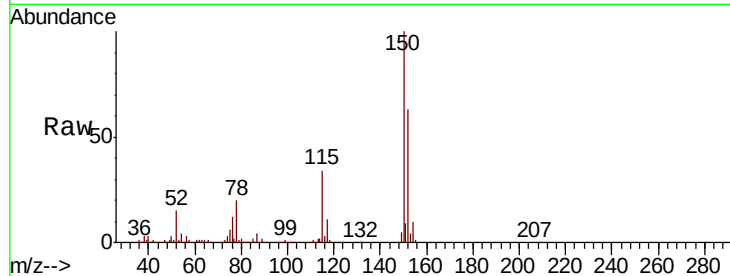
Tgt Ion: 75 Resp: 190659
 Ion Ratio Lower Upper
 75 100
 53 0.1 69.9 104.9#
 89 0.0 37.9 56.9#





#89
n-Butylbenzene
Concen: 1.455 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. -0.26 min
Lab File: VN051379.D
Acq: 21 Sep 2018 19:27

Tot Ion: 91 Resp: 518
Ion Ratio Lower Upper
91 100
92 0.0 26.0 78.0#
134 16.0 14.1 42.4



#95
Naphthalene
Concen: 5.336 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN051379.D
Acq: 21 Sep 2018 19:27

Tgt Ion: 128 Resp: 66
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 0.0 8.6 13.0#

