

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092218\
 Data File : VN051387.D
 Acq On : 21 Sep 2018 22:44
 Operator : MD\SY
 Sample : PB113086ZHE#18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 22 00:26:27 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	741775	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1108493	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	922100	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	345751	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	420957	52.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.72%	
35) Dibromofluoromethane	7.59	113	415609	46.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.78%	
50) Toluene-d8	10.09	98	1475906	42.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.72%	
62) 4-Bromofluorobenzene	12.40	95	401784	35.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	71.72%	

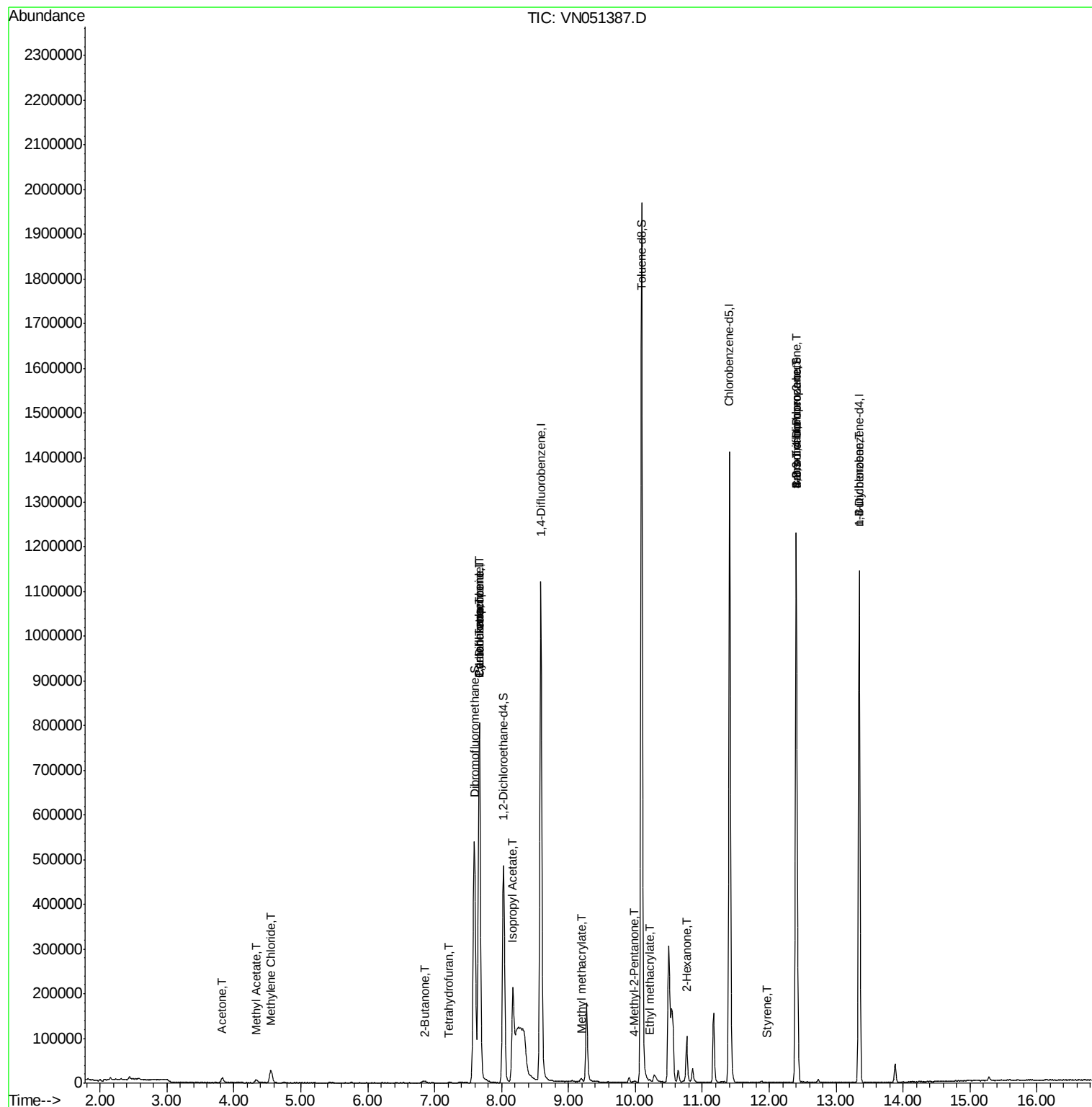
Target Compounds

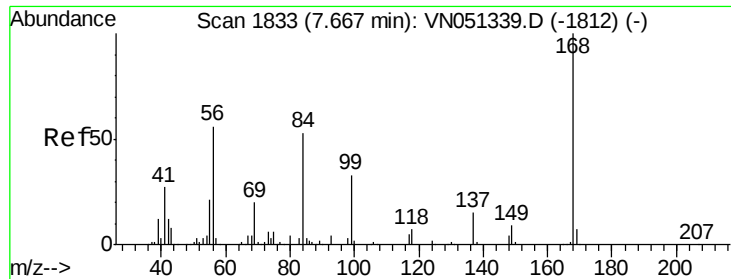
					Qvalue	
3) Chloromethane	2.06	50	803	Below Cal	#	82
16) Acetone	3.82	43	9567	4.046	ug/l #	87
18) Methyl Acetate	4.33	43	13477	1.805	ug/l #	72
20) Methylene Chloride	4.55	84	22144	2.680	ug/l	95
25) 2-Butanone	6.85	43	4324	1.882	ug/l #	83
29) Tetrahydrofuran	7.23	42	878	0.603	ug/l #	44
31) Cyclohexane	7.67	56	10821	0.463	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44258	3.903	ug/l #	48
38) Carbon Tetrachloride	7.67	117	62087	5.062	ug/l #	16
43) Isopropyl Acetate	8.17	43	257849	26.229	ug/l	92
48) Methyl methacrylate	9.18	41	4846	0.967	ug/l #	17
51) 4-Methyl-2-Pentanone	9.99	43	1847	0.349	ug/l #	77
56) Ethyl methacrylate	10.22	69	1723	1.752	ug/l #	61
59) 2-Hexanone	10.77	43	13536	3.797	ug/l #	55
70) Styrene	11.95	104	145	0.900	ug/l #	80
71) Bromoform	12.40	173	1632	0.287	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	222	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	184185	39.802	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	184185	119.434	ug/l #	14
89) n-Butylbenzene	13.34	91	774	1.469	ug/l #	47

(#) = 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: VN051387.D

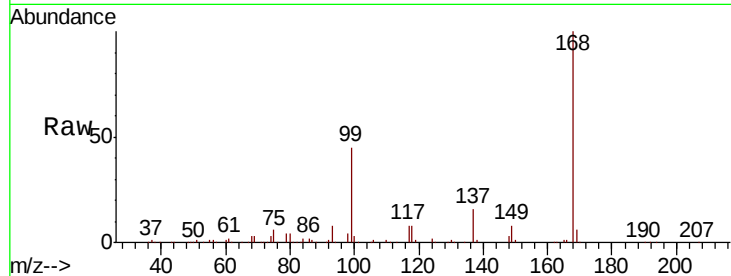
Acq: 21 Sep 2018 22:44

Tot Ion:168 Resp: 741775

Ion Ratio Lower Upper

168 100

99 45.2 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

300000

200000

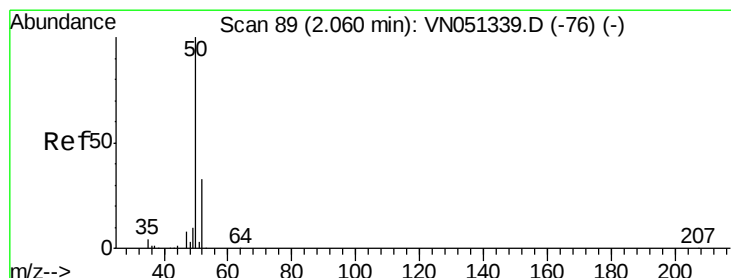
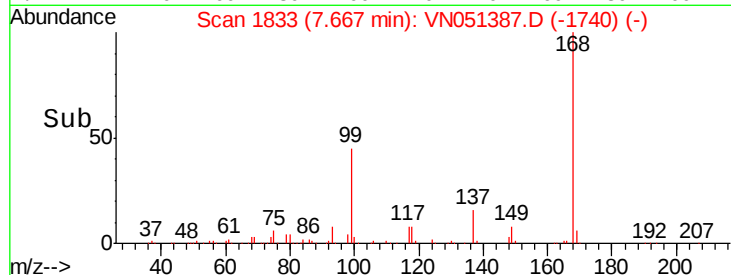
100000

0

Time-->

7.60

7.70



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN051387.D

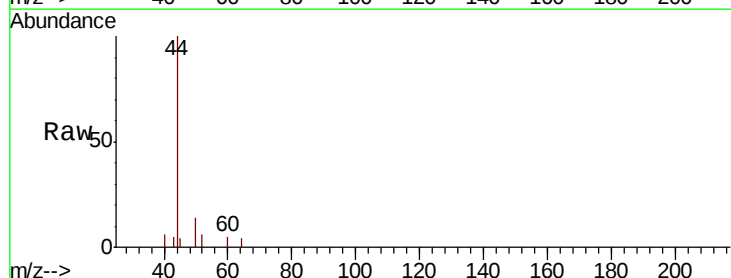
Acq: 21 Sep 2018 22:44

Tgt Ion: 50 Resp: 803

Ion Ratio Lower Upper

50 100

52 43.7 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

800

600

400

200

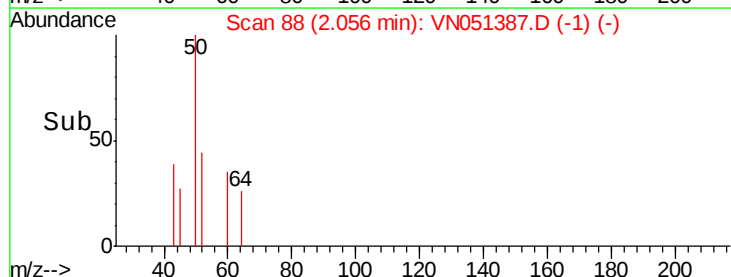
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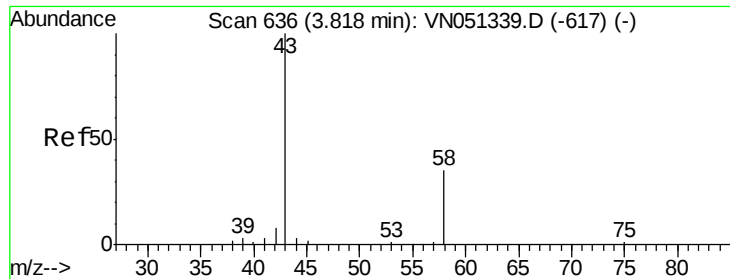
Time-->

2.04

2.06

2.08





#16

Acetone

Concen: 4.046 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN051387.D

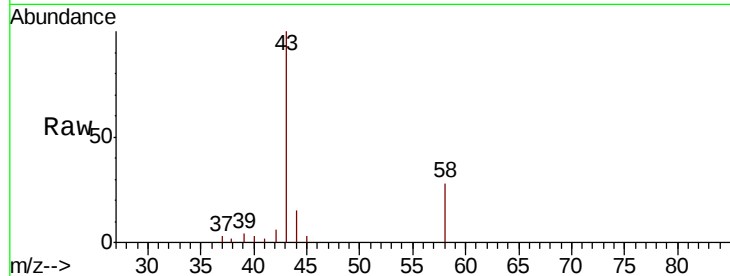
Acq: 21 Sep 2018 22:44

Tot Ion: 43 Resp: 9567

Ion Ratio Lower Upper

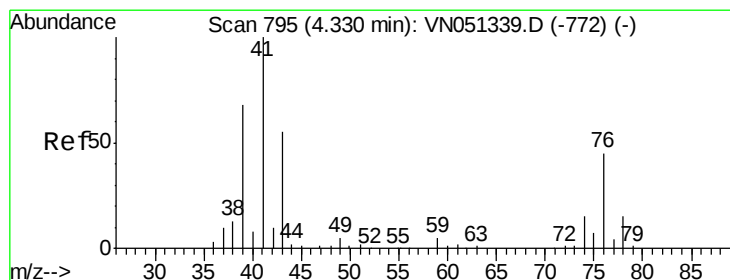
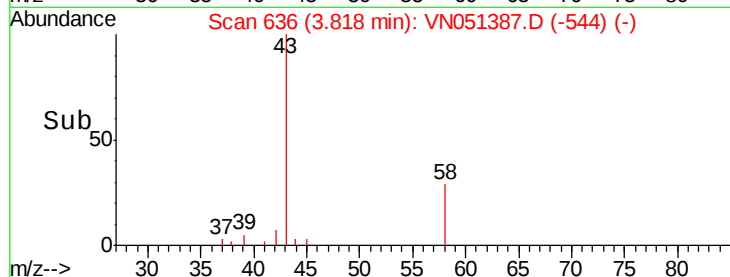
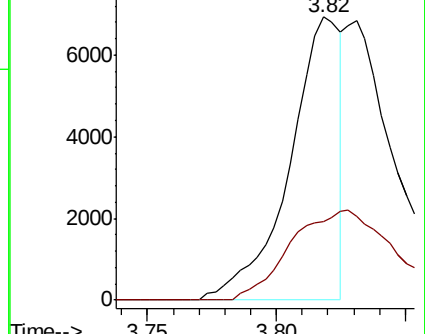
43 100

58 27.9 28.3 42.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.805 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN051387.D

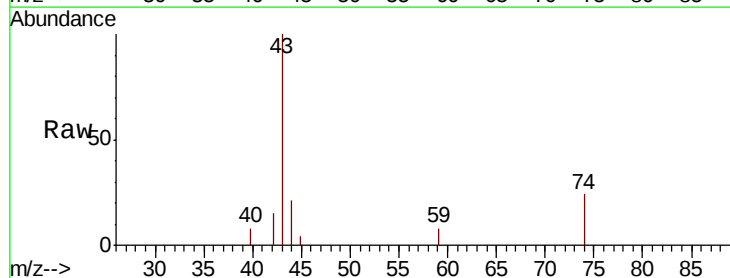
Acq: 21 Sep 2018 22:44

Tgt Ion: 43 Resp: 13477

Ion Ratio Lower Upper

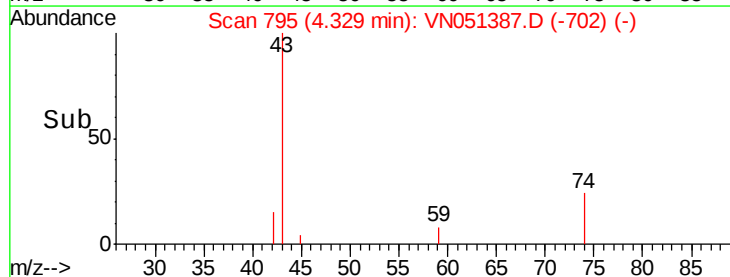
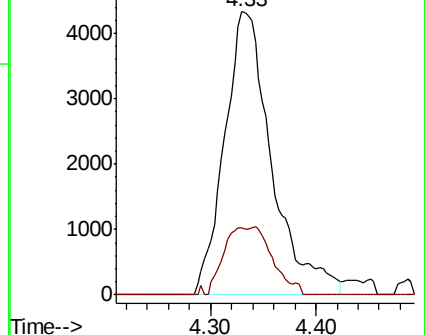
43 100

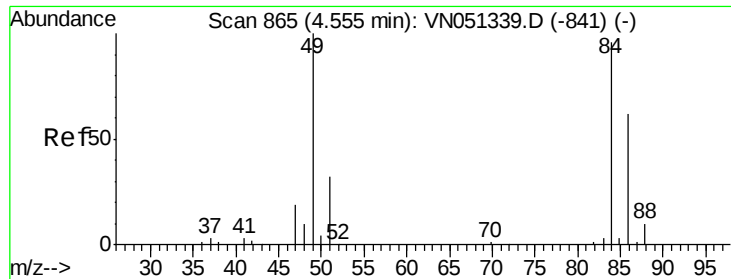
74 12.8 21.7 32.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

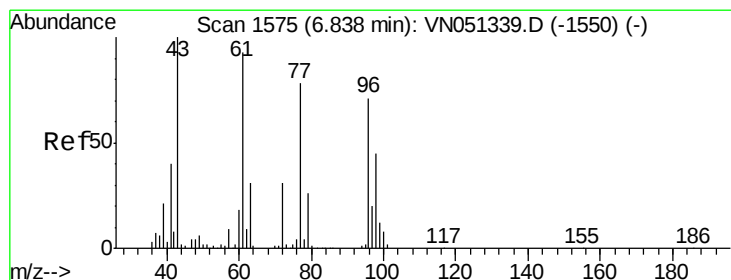
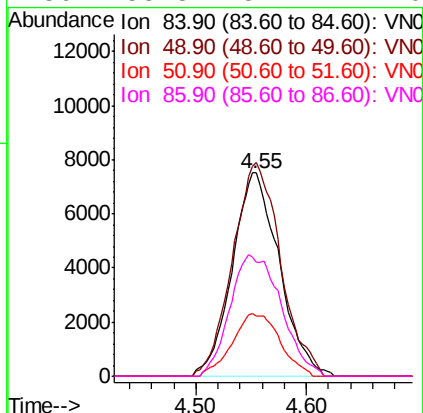
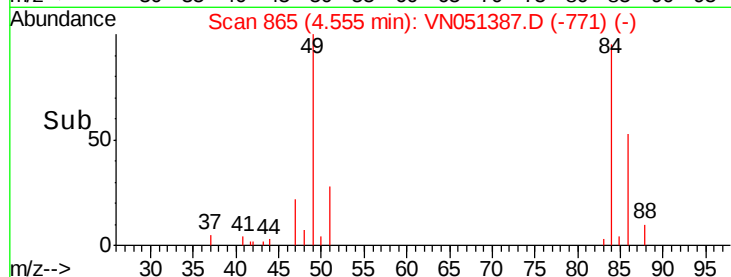
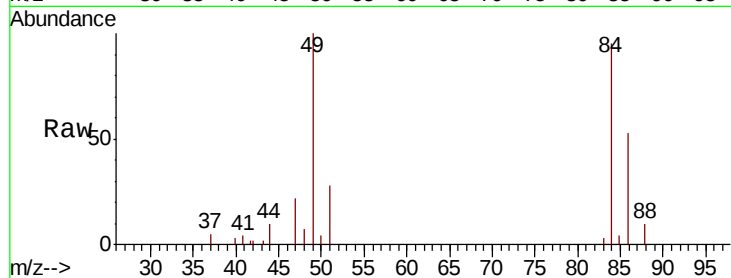
Ion 74.00 (73.70 to 74.70): VN0





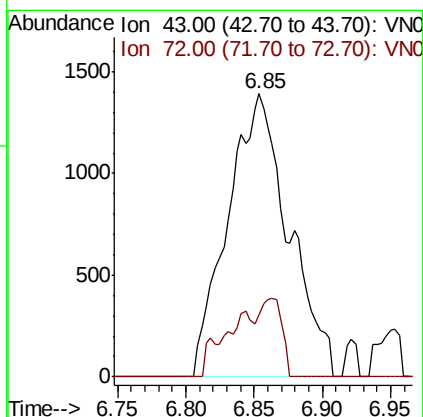
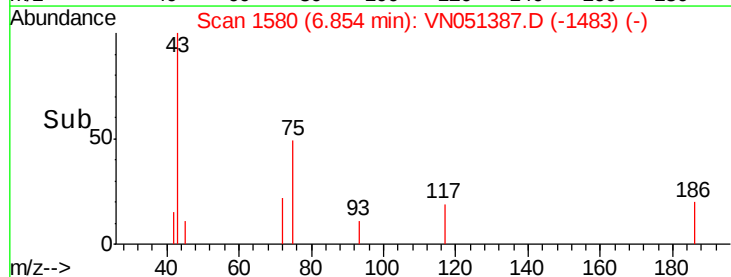
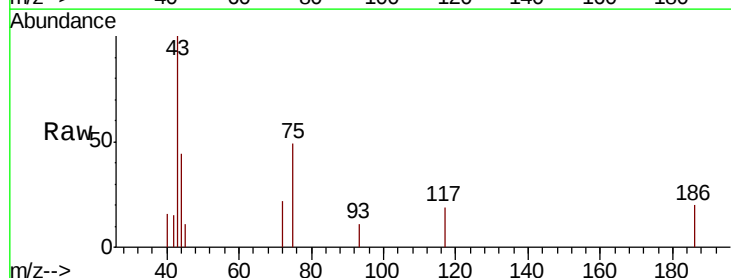
#20
Methvlene Chloride
Concen: 2.680 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051387.D
Acq: 21 Sep 2018 22:44

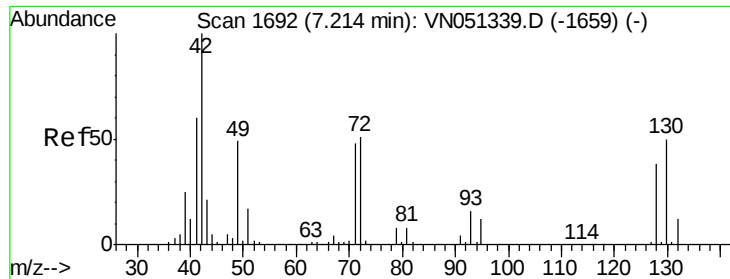
Tot Ion: 84 Resp: 22144
Ion Ratio Lower Upper
84 100
49 105.0 83.2 124.8
51 29.5 26.4 39.6
86 55.8 51.4 77.0



#25
2-Butanone
Concen: 1.882 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN051387.D
Acq: 21 Sep 2018 22:44

Tgt Ion: 43 Resp: 4324
Ion Ratio Lower Upper
43 100
72 21.8 24.7 37.1#





#29

Tetrahydrofuran

Concen: 0.603 ug/l

RT: 7.23 min Scan# 1696

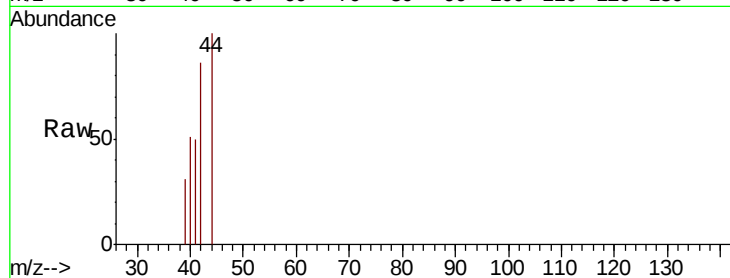
Delta R.T. 0.01 min

Lab File: VN051387.D

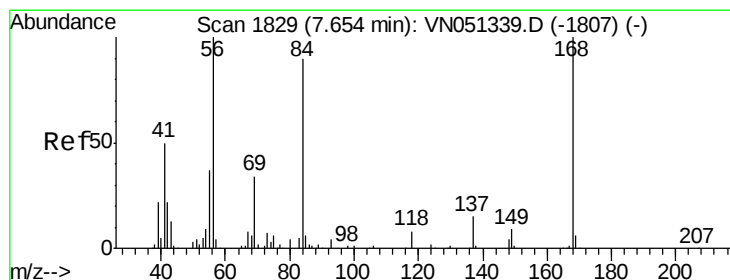
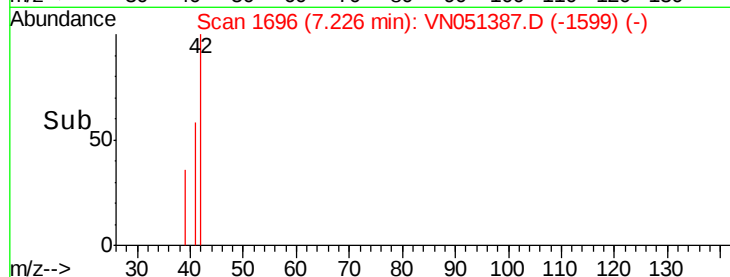
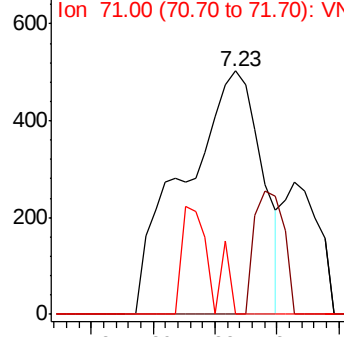
Acq: 21 Sep 2018 22:44

Tot Ion: 42 Resp: 878

Ion	Ratio	Lower	Upper
42	100		
72	19.2	39.0	58.4#
71	0.0	36.5	54.7#



Abundance Ion 42.00 (41.70 to 42.70): VN0



#31

Cyclohexane

Concen: 0.463 ug/l

RT: 7.67 min Scan# 1833

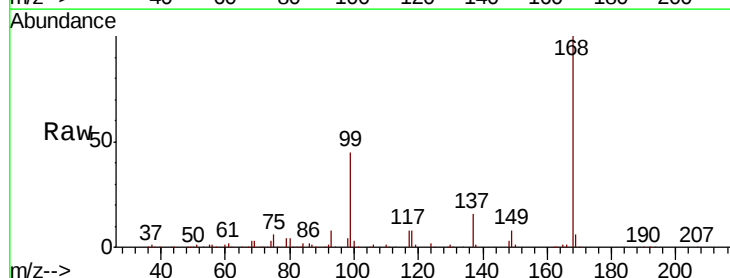
Delta R.T. 0.01 min

Lab File: VN051387.D

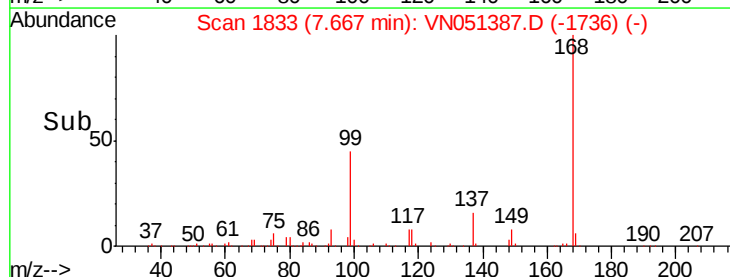
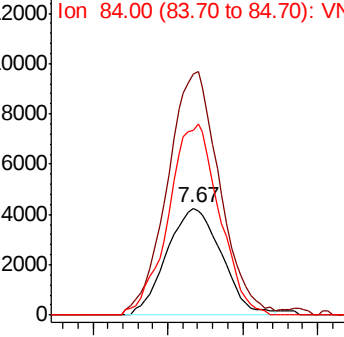
Acq: 21 Sep 2018 22:44

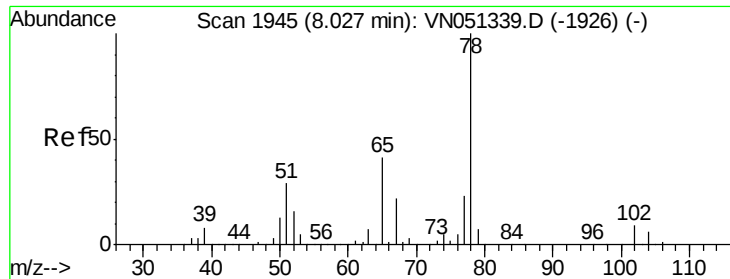
Tgt Ion: 56 Resp: 10821

Ion	Ratio	Lower	Upper
56	100		
69	221.5	27.3	40.9#
84	173.0	72.2	108.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 52.359 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051387.D

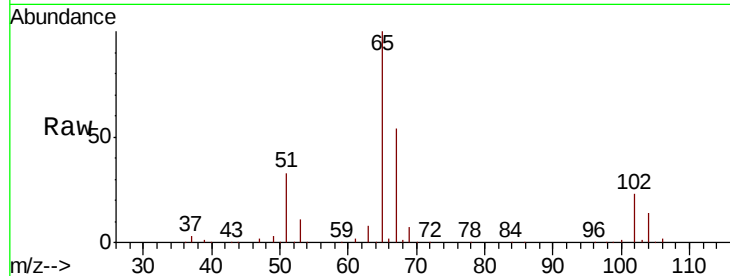
Acq: 21 Sep 2018 22:44

Tot Ion: 65 Resp: 420957

Ion Ratio Lower Upper

65 100

67 54.2 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

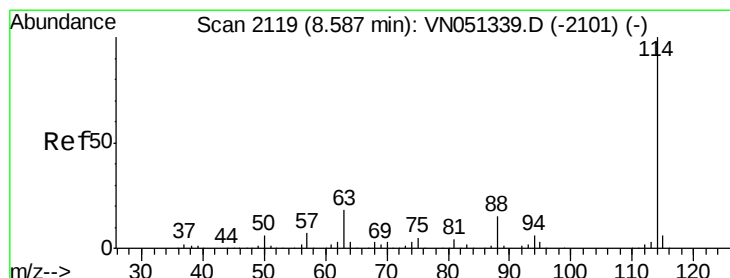
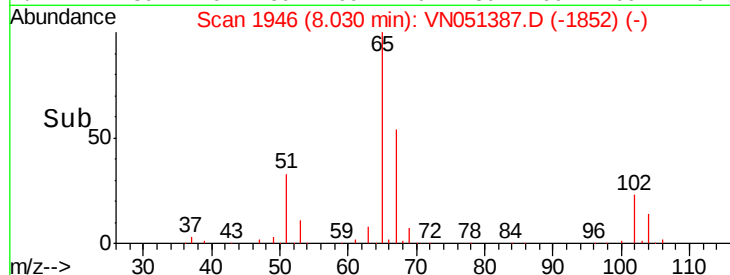
150000

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: VN051387.D

Acq: 21 Sep 2018 22:44

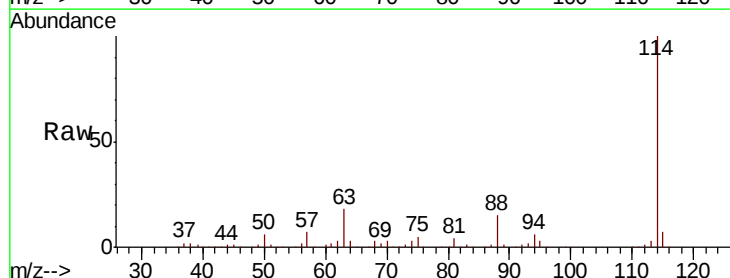
Tgt Ion: 114 Resp: 1108493

Ion Ratio Lower Upper

114 100

63 17.8 0.0 36.6

88 14.9 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

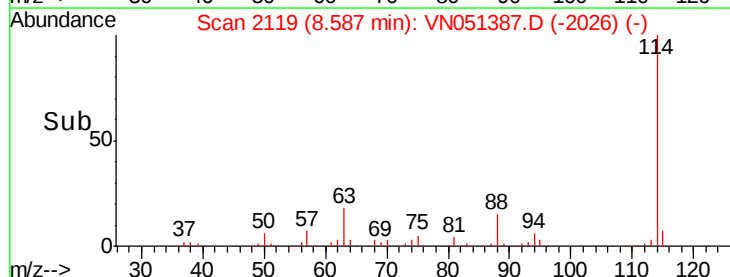
600000

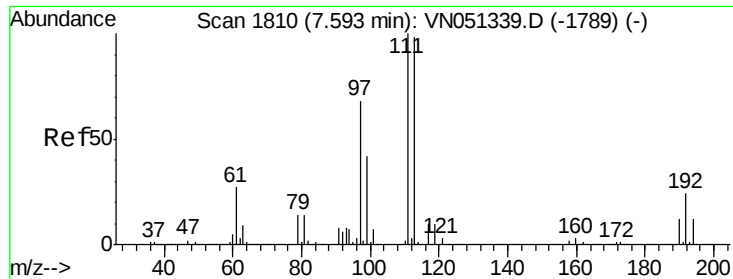
400000

200000

0

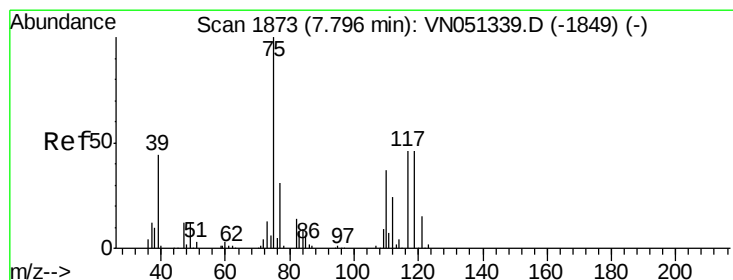
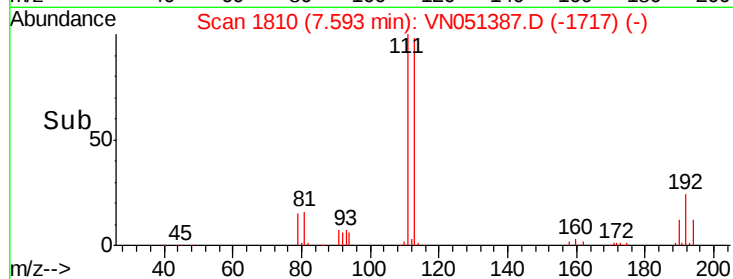
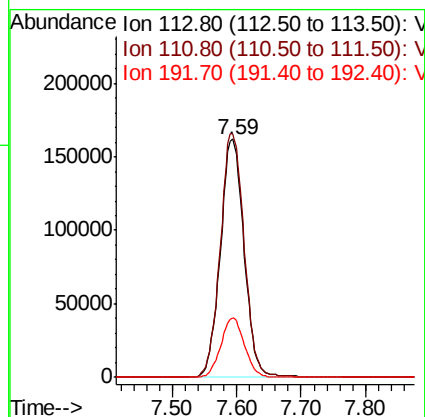
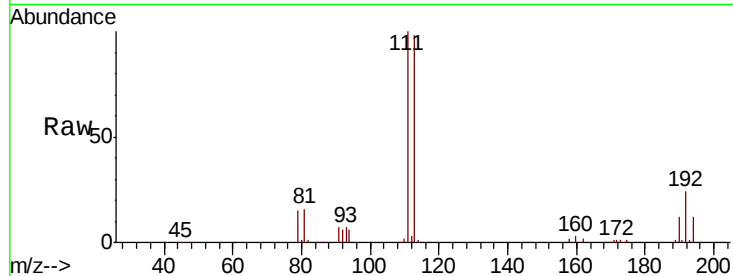
Time--> 8.50 8.60 8.70





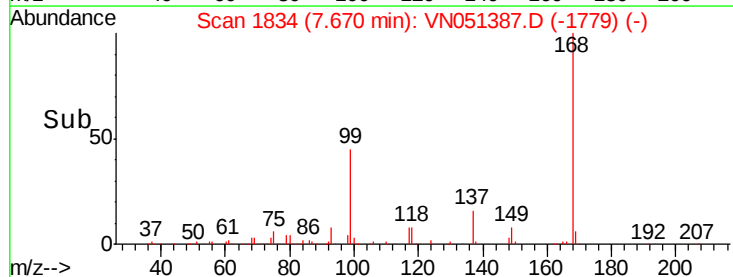
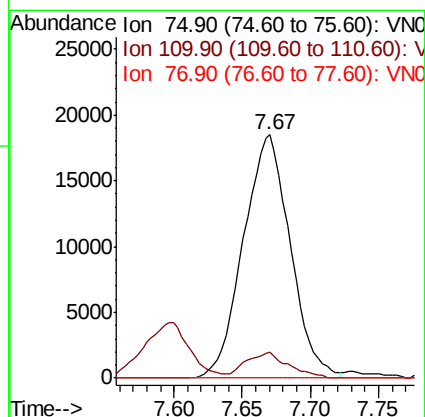
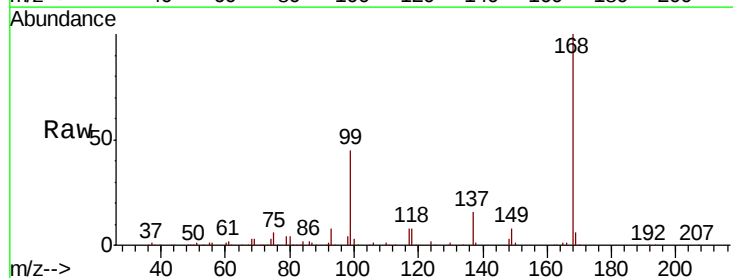
#35
 Dibromofluoromethane
 Concen: 46.395 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051387.D
 Acq: 21 Sep 2018 22:44

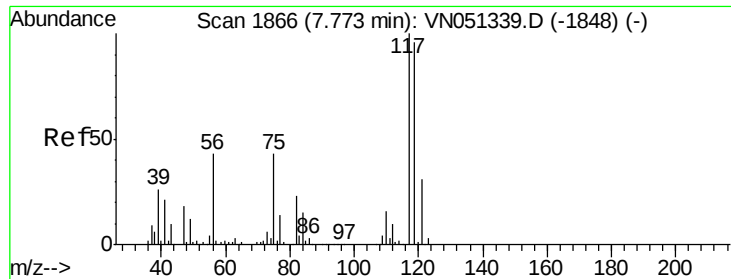
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.9	81.9	122.9
192	24.9	19.8	29.6



#36
 1,1-Dichloropropene
 Concen: 3.903 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051387.D
 Acq: 21 Sep 2018 22:44

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	18.9	56.5#
77	0.0	25.4	38.2#





#38

Carbon Tetrachloride

Concen: 5.062 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN051387.D

Acq: 21 Sep 2018 22:44

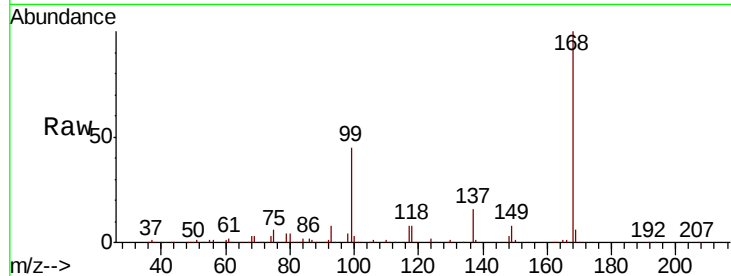
Tot Ion:117 Resp: 62087

Ion Ratio Lower Upper

117 100

119 5.5 77.0 115.4#

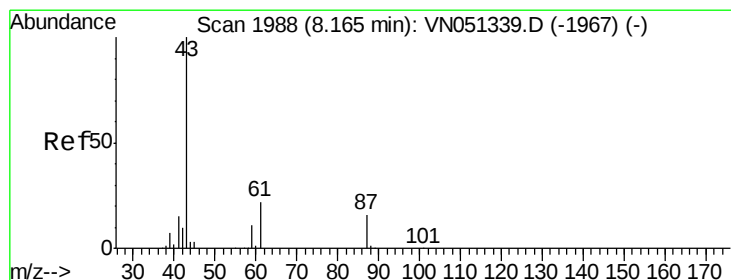
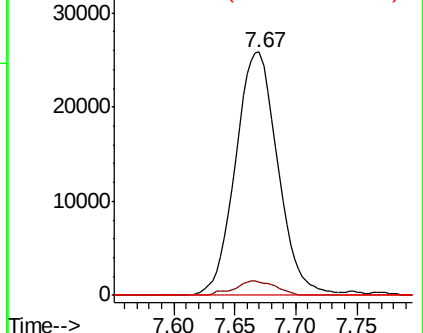
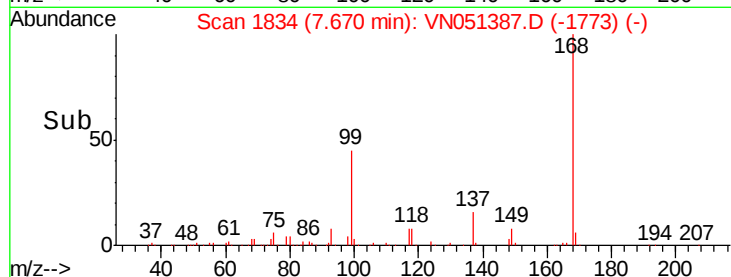
121 0.0 25.0 37.4#



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



#43

Isopropyl Acetate

Concen: 26.229 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051387.D

Acq: 21 Sep 2018 22:44

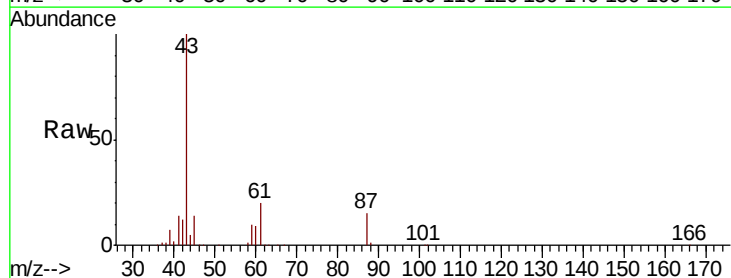
Tgt Ion: 43 Resp: 257849

Ion Ratio Lower Upper

43 100

61 18.8 18.1 27.1

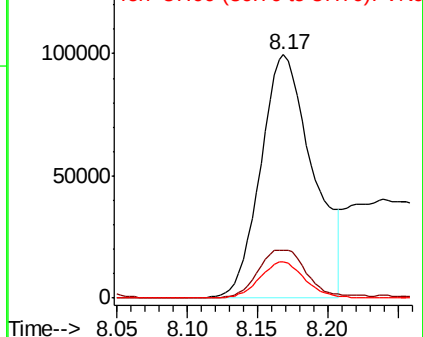
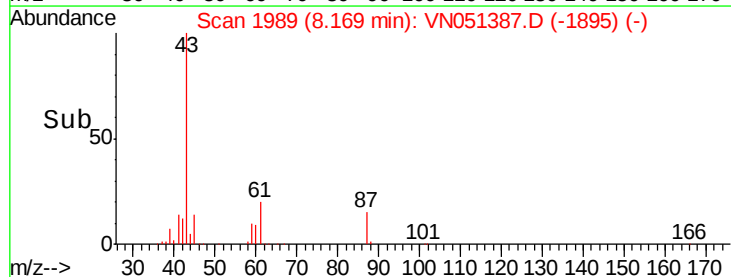
87 12.9 12.8 19.2

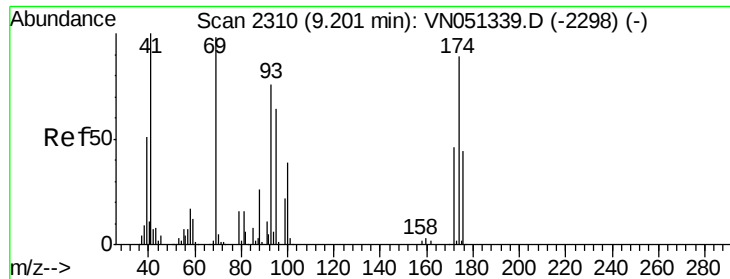


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

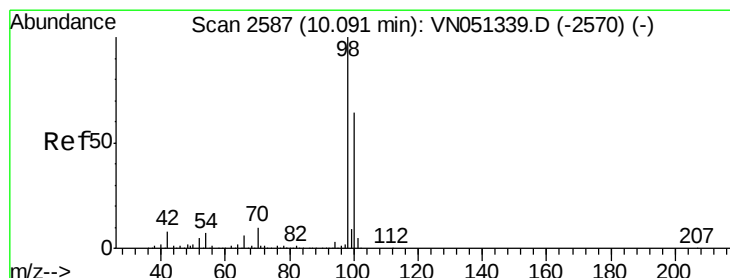
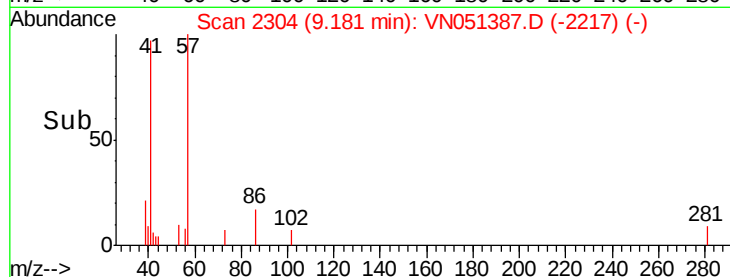
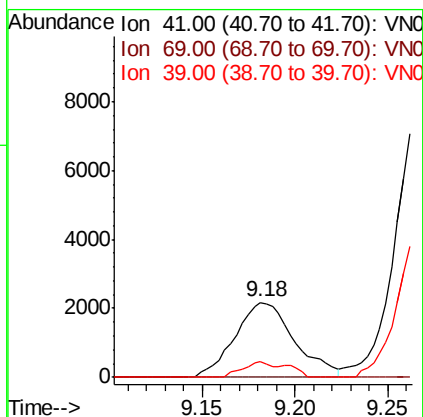
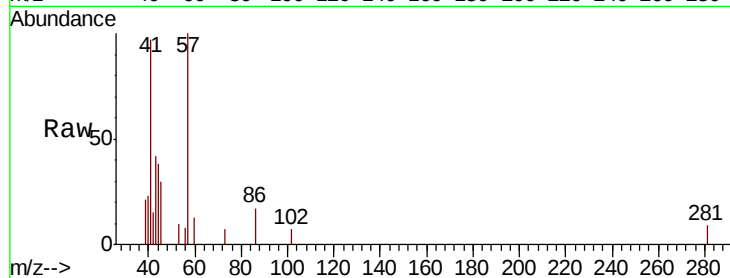
Ion 87.00 (86.70 to 87.70): VNO





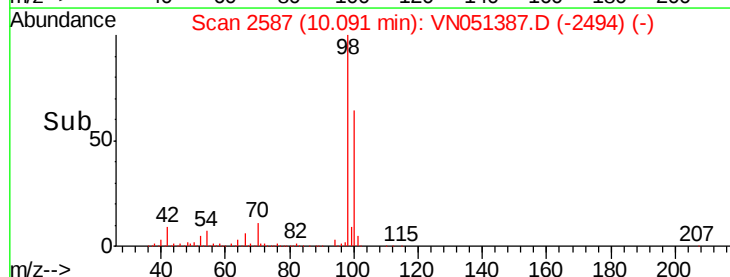
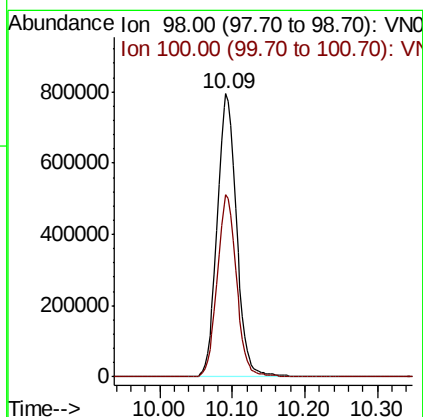
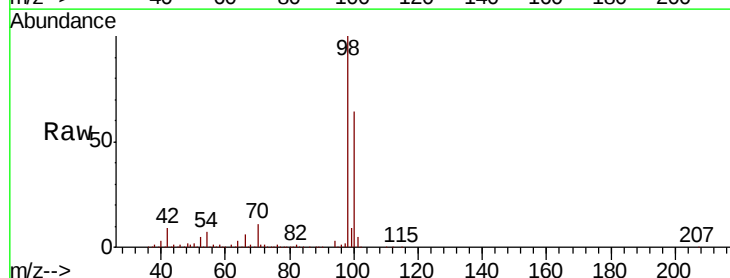
#48
Methvl methacrylate
Concen: 0.967 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051387.D
Acq: 21 Sep 2018 22:44

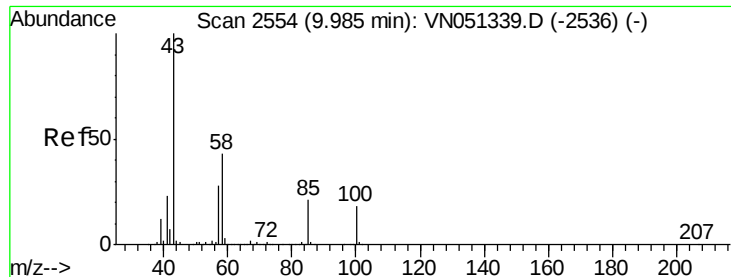
Tot Ion: 41 Resp: 4846
Ion Ratio Lower Upper
41 100
69 0.0 79.4 119.0#
39 15.6 43.0 64.6#



#50
Toluene-d8
Concen: 42.858 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051387.D
Acq: 21 Sep 2018 22:44

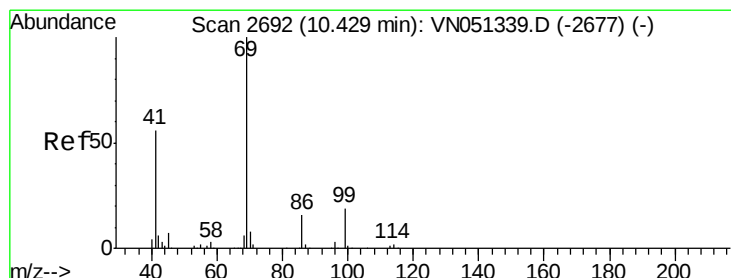
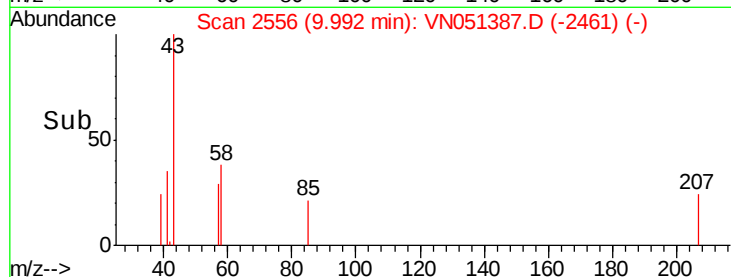
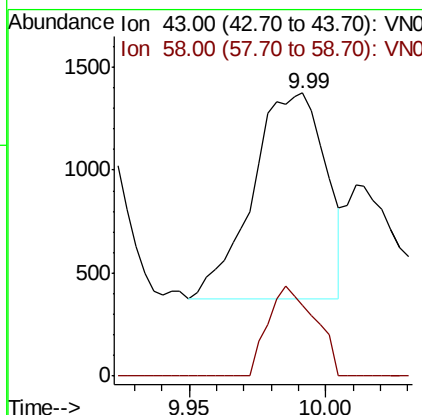
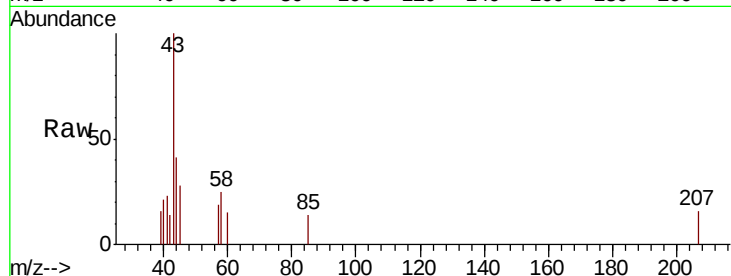
Tgt Ion: 98 Resp: 1475906
Ion Ratio Lower Upper
98 100
100 63.9 51.3 76.9





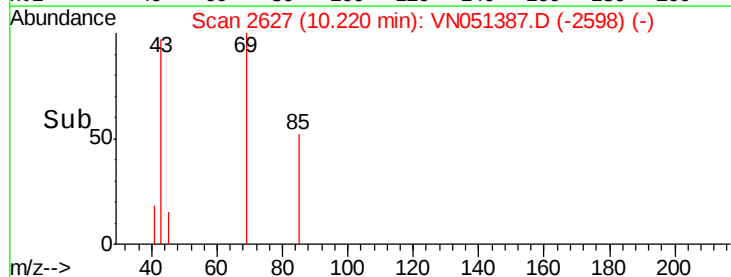
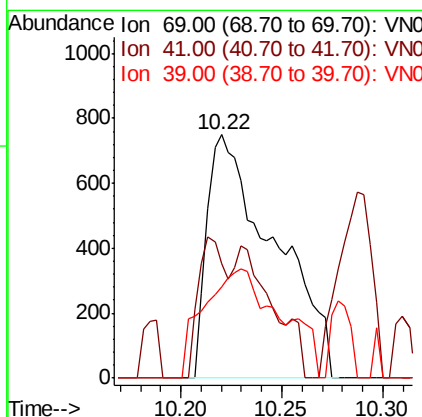
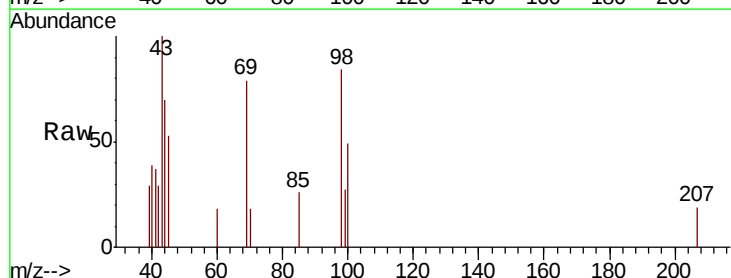
#51
 4-Methyl-2-Pentanone
 Concen: 0.349 ug/l
 RT: 9.99 min Scan# 2556
 Delta R.T. 0.01 min
 Lab File: VN051387.D
 Acq: 21 Sep 2018 22:44

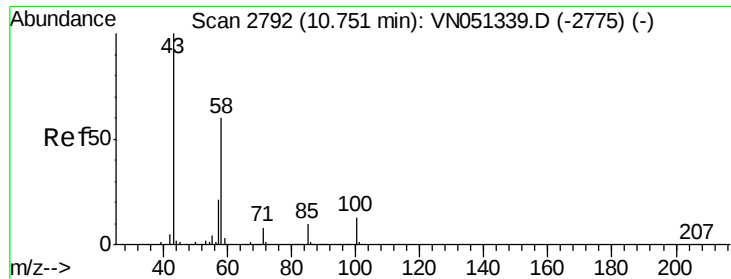
Tot Ion: 43 Resp: 1847
 Ion Ratio Lower Upper
 43 100
 58 28.4 34.2 51.4#



#56
 Ethyl methacrylate
 Concen: 1.752 ug/l
 RT: 10.22 min Scan# 2627
 Delta R.T. -0.21 min
 Lab File: VN051387.D
 Acq: 21 Sep 2018 22:44

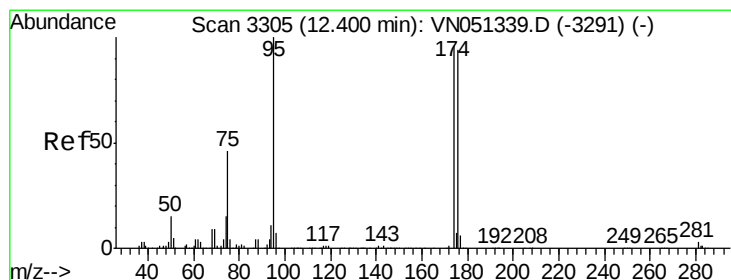
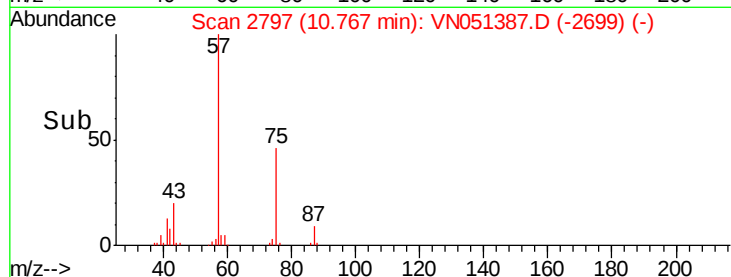
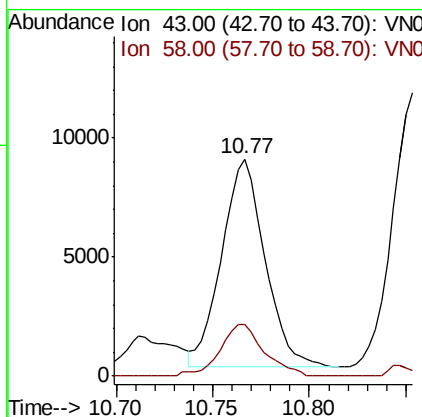
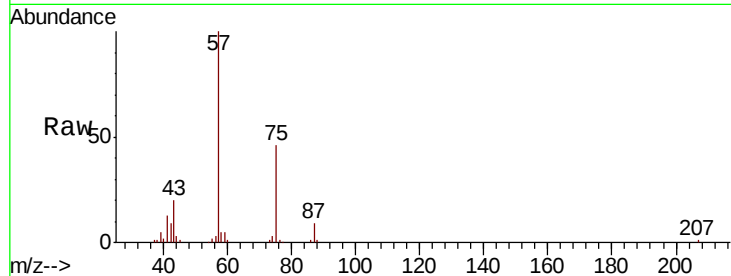
Tgt Ion: 69 Resp: 1723
 Ion Ratio Lower Upper
 69 100
 41 23.2 45.1 67.7#
 39 43.8 23.4 35.2#





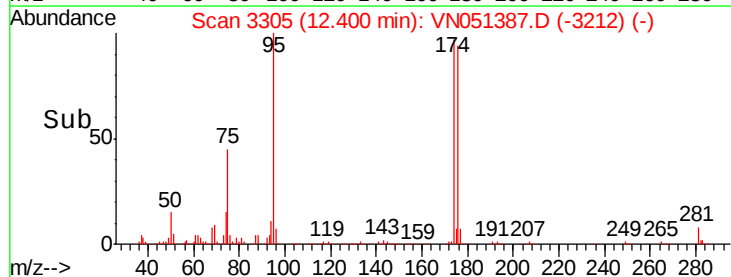
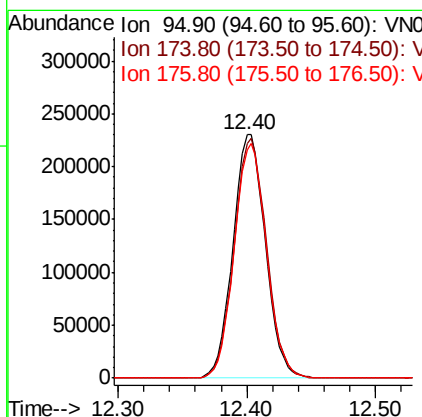
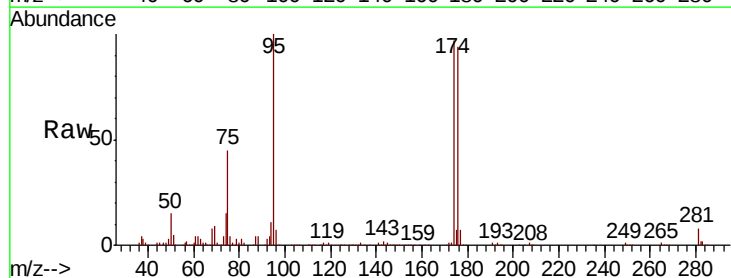
#59
2-Hexanone
Concen: 3.797 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN051387.D
Acq: 21 Sep 2018 22:44

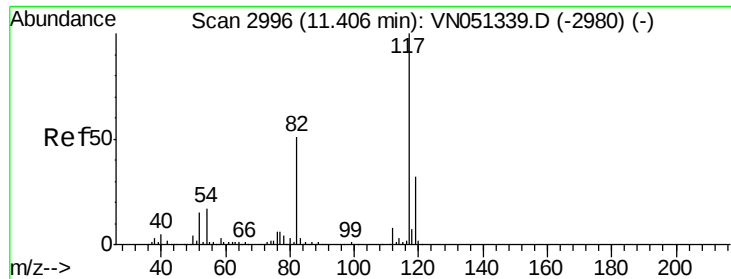
Tot Ion: 43 Resp: 13536
Ion Ratio Lower Upper
43 100
58 25.6 29.9 89.8#



#62
4-Bromofluorobenzene
Concen: 35.862 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051387.D
Acq: 21 Sep 2018 22:44

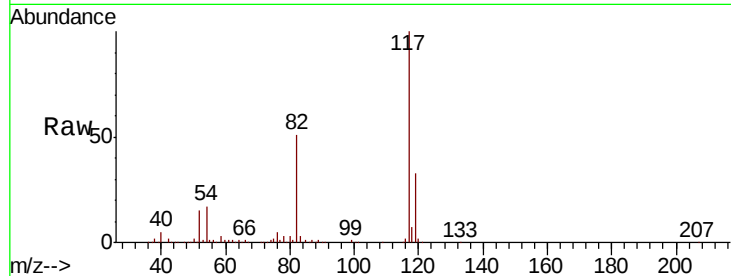
Tgt Ion: 95 Resp: 401784
Ion Ratio Lower Upper
95 100
174 98.5 0.0 194.6
176 95.7 0.0 189.6



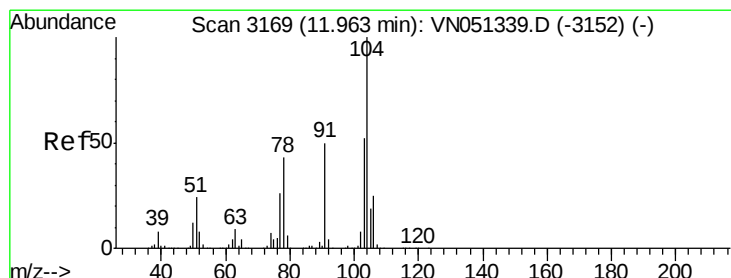
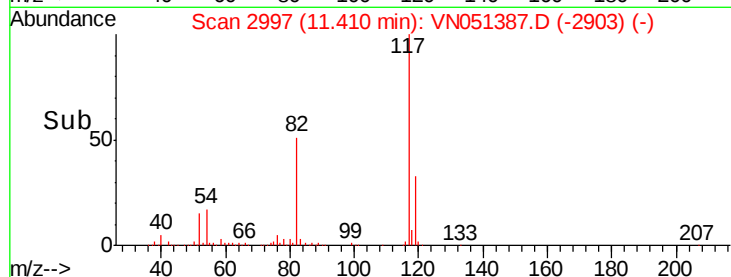
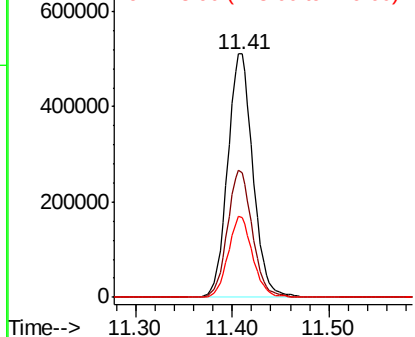


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051387.D
Acq: 21 Sep 2018 22:44

Tot Ion:117 Resp: 922100
Ion Ratio Lower Upper
117 100
82 51.2 40.7 61.1
119 33.0 25.3 37.9

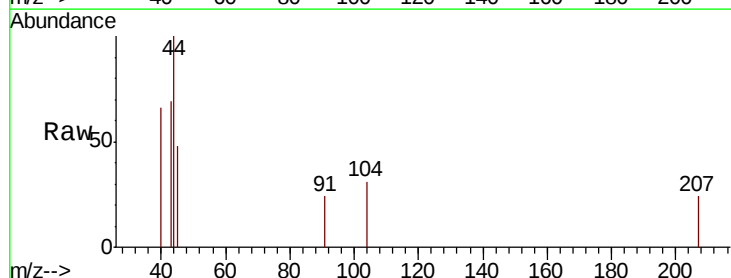


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): V

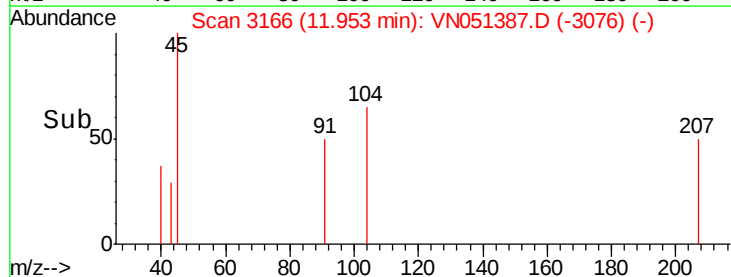
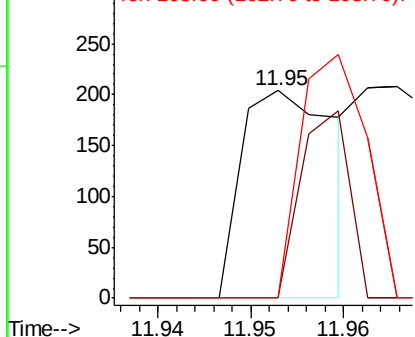


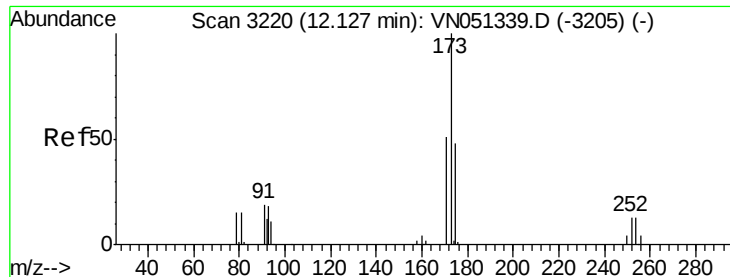
#70
Styrene
Concen: 0.900 ug/l
RT: 11.95 min Scan# 3166
Delta R.T. -0.01 min
Lab File: VN051387.D
Acq: 21 Sep 2018 22:44

Tgt Ion:104 Resp: 145
Ion Ratio Lower Upper
104 100
78 46.2 37.8 56.6
103 81.4 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





#71

Bromoform

Concen: 0.287 ug/l

RT: 12.40 min Scan# 3304

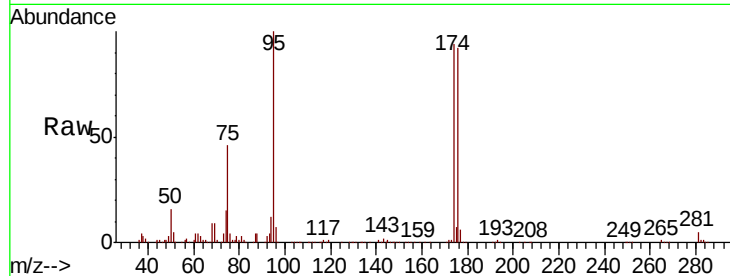
Delta R.T. 0.27 min

Lab File: VN051387.D

Acq: 21 Sep 2018 22:44

Tot Ion:173 Resp: 1632

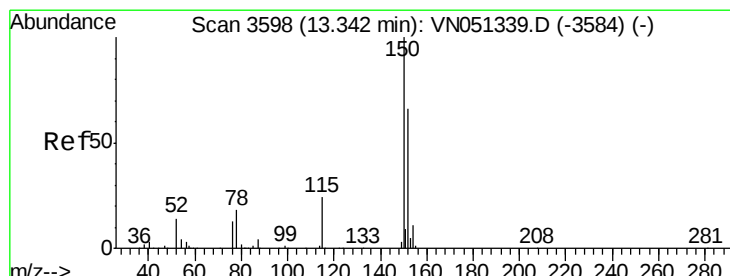
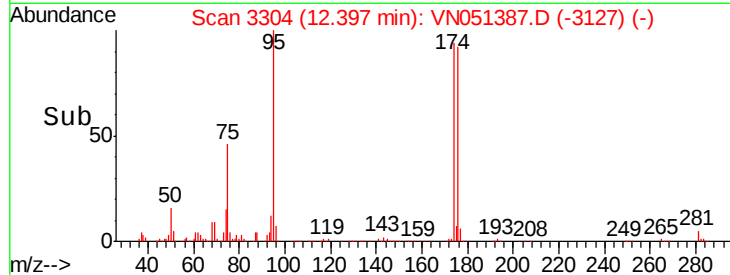
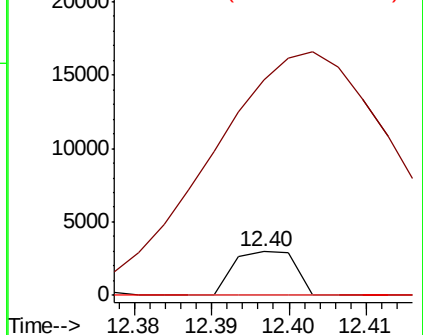
Ion	Ratio	Lower	Upper
173	100		
175	1598.0	24.3	73.0#
254	0.0	0.1	0.1#



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

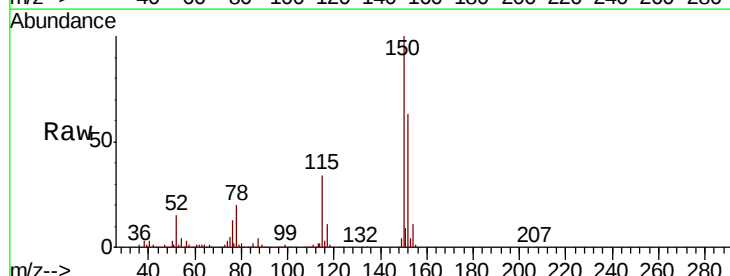
Delta R.T. 0.00 min

Lab File: VN051387.D

Acq: 21 Sep 2018 22:44

Tgt Ion:152 Resp: 345751

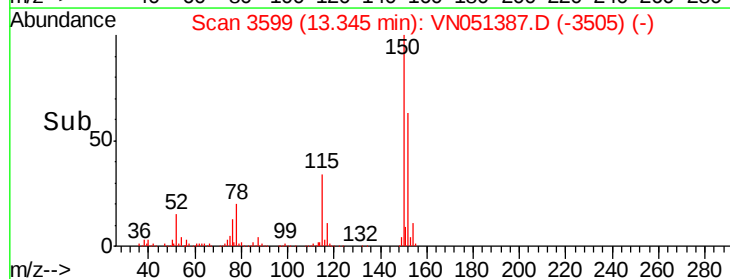
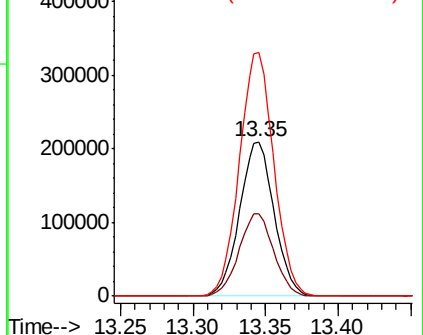
Ion	Ratio	Lower	Upper
152	100		
115	53.7	26.9	80.7
150	158.3	0.0	345.0

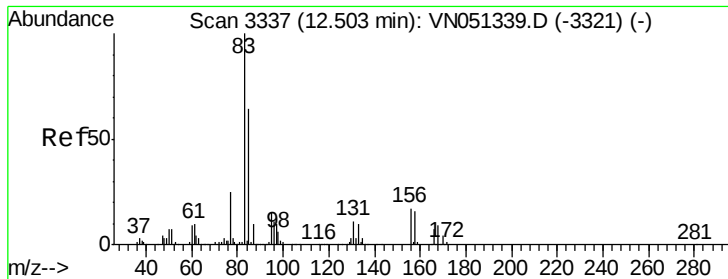


Abundance Ion 151.90 (151.60 to 152.60): V

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: VN051387.D

Acq: 21 Sep 2018 22:44

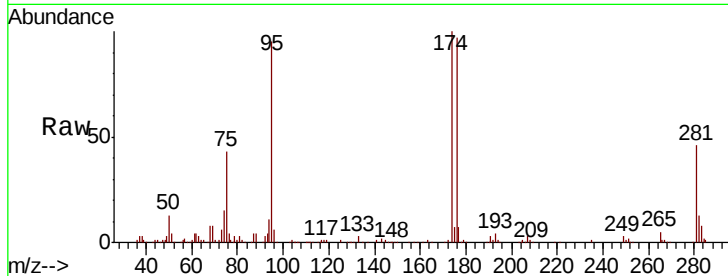
Tot Ion: 83 Resp: 222

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.7#

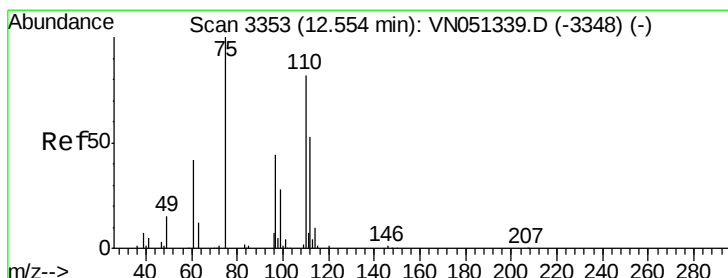
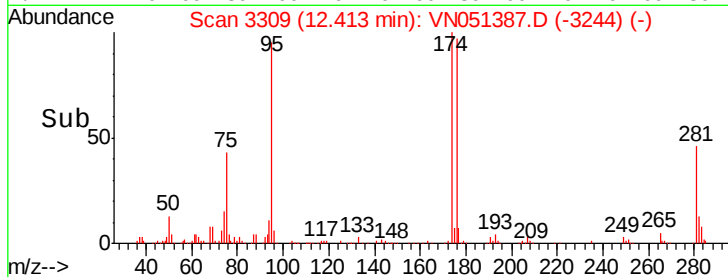
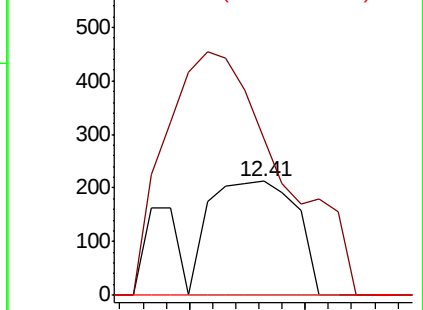
85 0.0 32.3 96.9#



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: 39.802 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051387.D

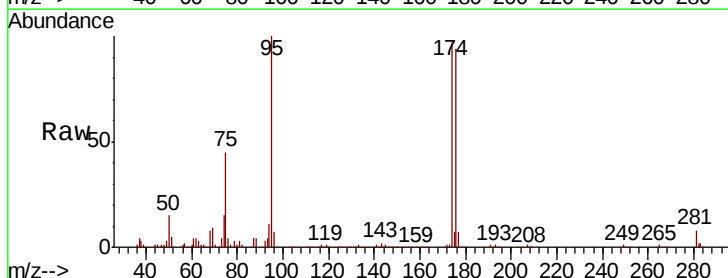
Acq: 21 Sep 2018 22:44

Tgt Ion: 75 Resp: 184185

Ion Ratio Lower Upper

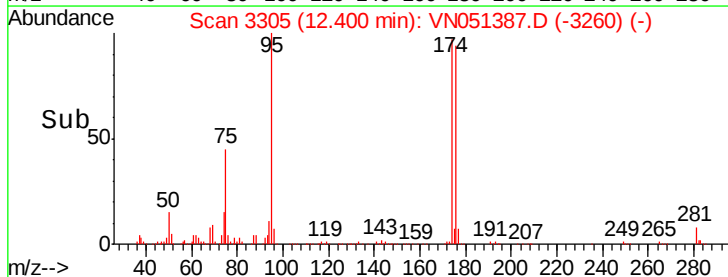
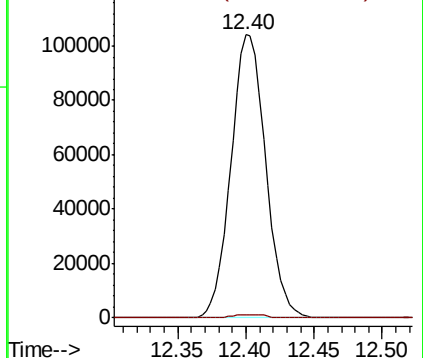
75 100

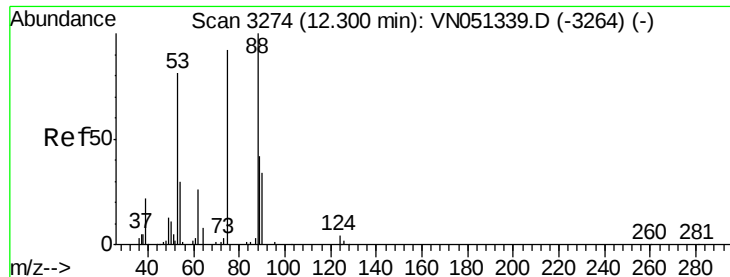
77 1.3 0.0 0.0#



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: 119.434 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051387.D

Acq: 21 Sep 2018 22:44

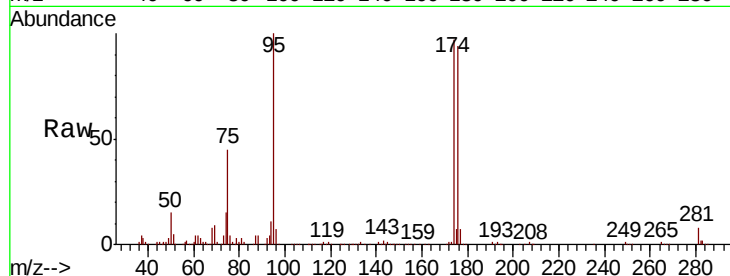
Tot Ion: 75 Resp: 184185

Ion Ratio Lower Upper

75 100

53 0.0 69.9 104.9#

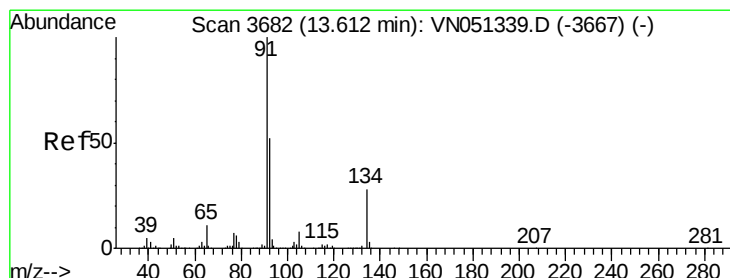
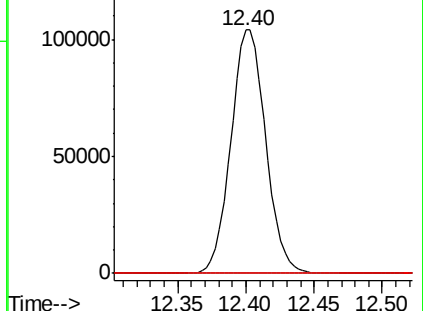
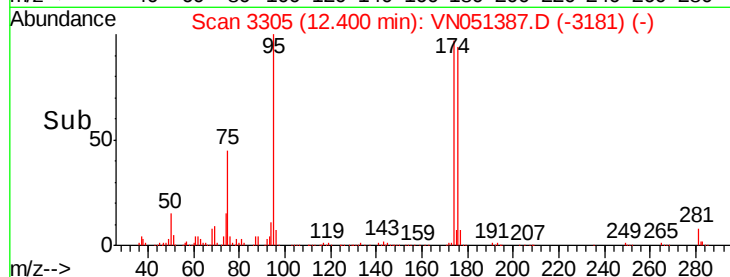
89 0.0 37.9 56.9#



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: 1.469 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.27 min

Lab File: VN051387.D

Acq: 21 Sep 2018 22:44

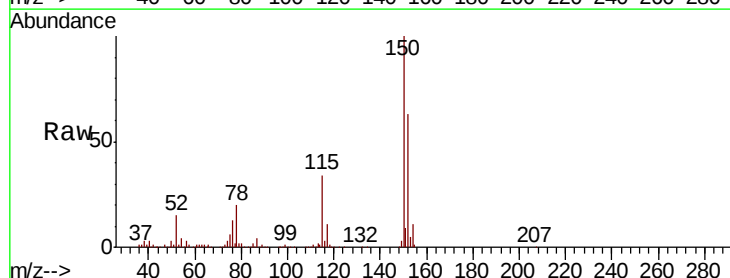
Tgt Ion: 91 Resp: 774

Ion Ratio Lower Upper

91 100

92 0.0 26.0 78.0#

134 36.6 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

