

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092218\
 Data File : VN051388.D
 Acq On : 21 Sep 2018 23:08
 Operator : MD\SY
 Sample : PB113086ZHE#19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 22 00:26:41 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	713156	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1087268	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	914627	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	349069	50.00	ug/l	0.00

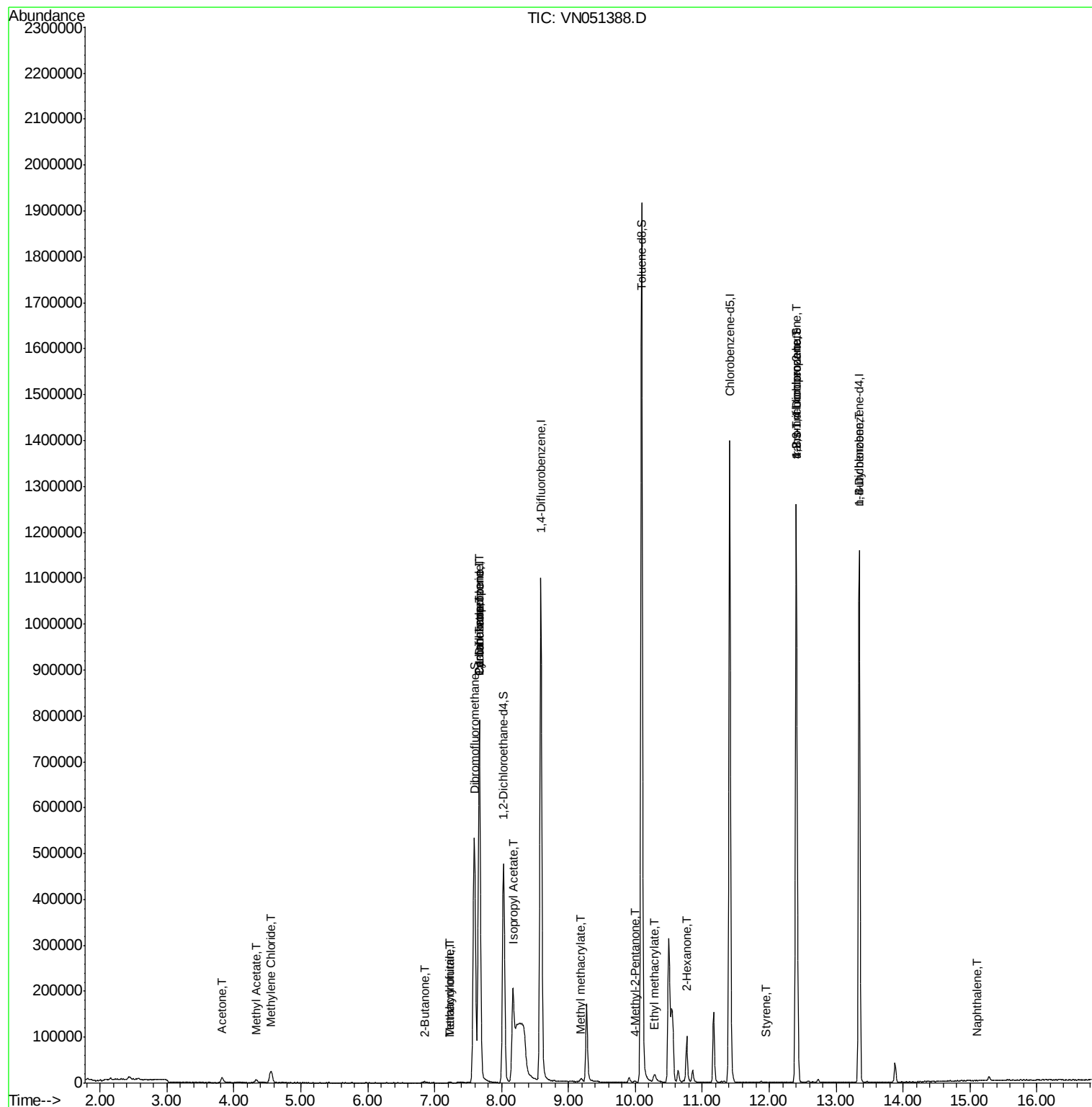
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	413402	53.48	ug/l	0.00
Spiked Amount			Recovery	=	106.96%	
35) Dibromofluoromethane	7.59	113	411332	46.81	ug/l	0.00
Spiked Amount			Recovery	=	93.62%	
50) Toluene-d8	10.09	98	1453328	43.03	ug/l	0.00
Spiked Amount			Recovery	=	86.06%	
62) 4-Bromofluorobenzene	12.40	95	397882	36.21	ug/l	0.00
Spiked Amount			Recovery	=	72.42%	

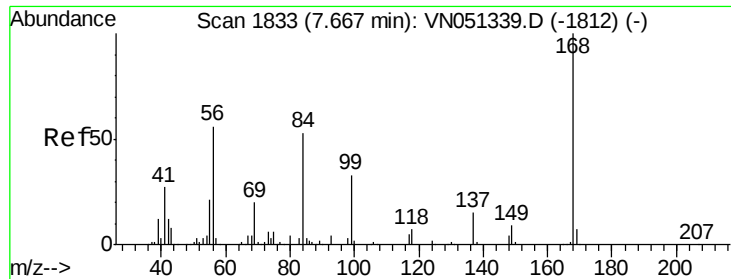
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	791	Below Cal	#	80
16) Acetone	3.82	43	18706	10.970	ug/l	99
18) Methyl Acetate	4.33	43	12328	1.663	ug/l #	83
20) Methylene Chloride	4.55	84	21332	2.685	ug/l	98
25) 2-Butanone	6.85	43	3757	1.701	ug/l #	87
29) Tetrahydrofuran	7.22	42	1181	0.844	ug/l #	49
31) Cyclohexane	7.67	56	10023	0.429	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41363	3.719	ug/l #	48
38) Carbon Tetrachloride	7.67	117	60630	5.039	ug/l #	17
41) Methacrylonitrile	7.22	41	659	0.230	ug/l #	18
43) Isopropyl Acetate	8.17	43	275608	28.583	ug/l #	86
48) Methyl methacrylate	9.18	41	4839	0.984	ug/l #	14
51) 4-Methyl-2-Pentanone	9.99	43	1297	0.250	ug/l #	86
56) Ethyl methacrylate	10.30	69	69	1.584	ug/l #	1
59) 2-Hexanone	10.77	43	13256	3.791	ug/l #	53
70) Styrene	11.96	104	354	0.909	ug/l #	39
75) 1,1,2,2-Tetrachloroethane	12.39	83	138	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	183866	39.334	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	183866	118.094	ug/l #	14
89) n-Butylbenzene	13.34	91	839	1.472	ug/l #	45
95) Naphthalene	15.12	128	32	5.334	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# 1834

Delta R.T. 0.00 min

Lab File: VN051388.D

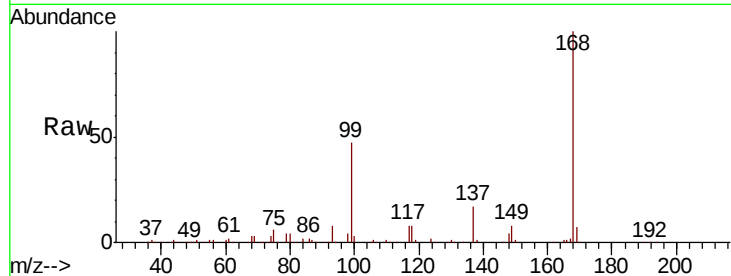
Acq: 21 Sep 2018 23:08

Tot Ion:168 Resp: 713156

Ion Ratio Lower Upper

168 100

99 47.0 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

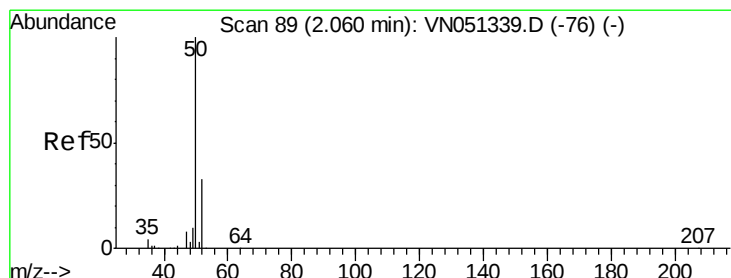
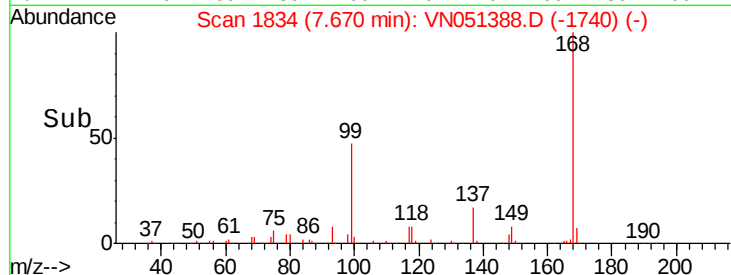
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051388.D

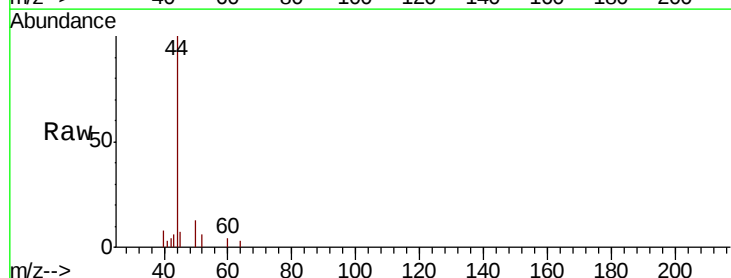
Acq: 21 Sep 2018 23:08

Tgt Ion: 50 Resp: 791

Ion Ratio Lower Upper

50 100

52 45.0 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

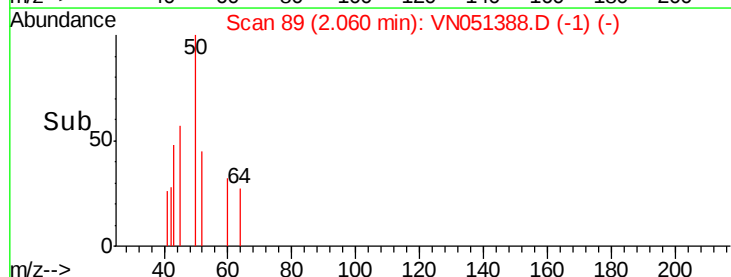
600

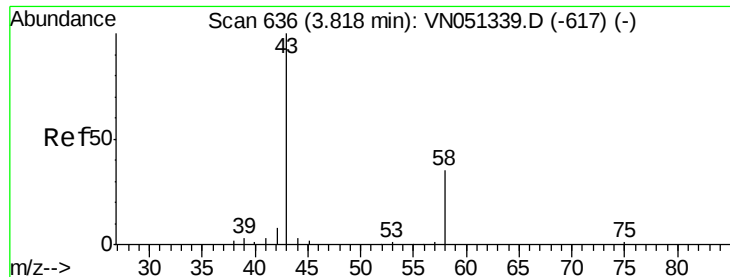
400

200

0

Time-->





#16

Acetone

Concen: 10.970 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN051388.D

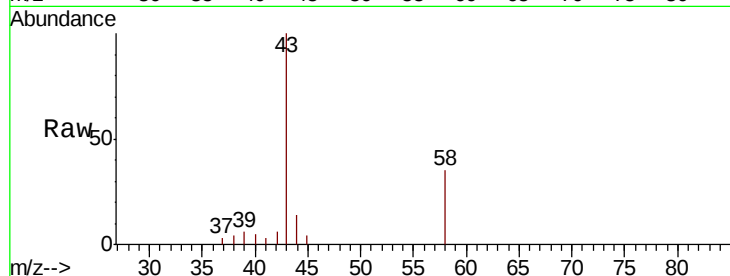
Acq: 21 Sep 2018 23:08

Tot Ion: 43 Resp: 18706

Ion Ratio Lower Upper

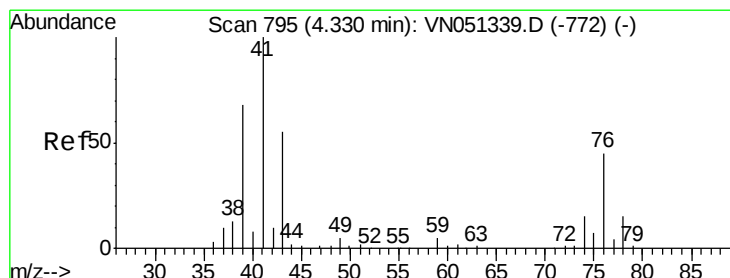
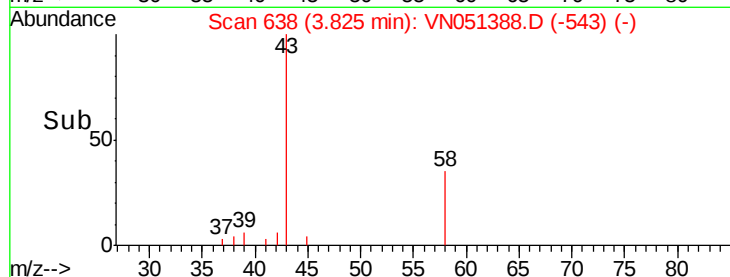
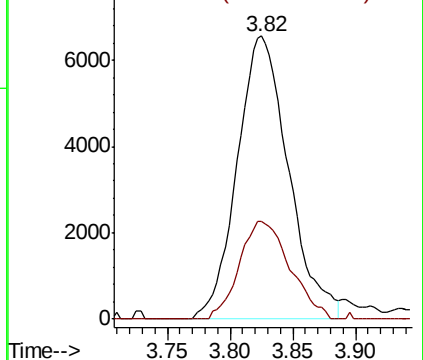
43 100

58 34.6 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: 1.663 ug/l

RT: 4.33 min Scan# 795

Delta R.T. -0.00 min

Lab File: VN051388.D

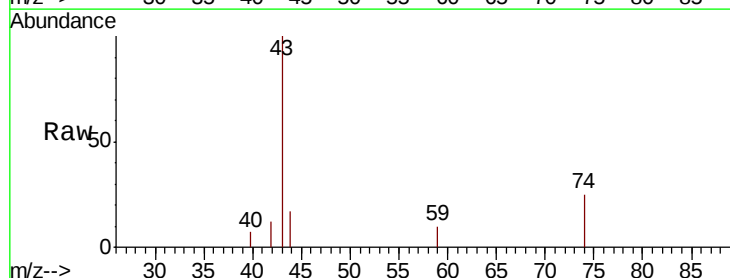
Acq: 21 Sep 2018 23:08

Tgt Ion: 43 Resp: 12328

Ion Ratio Lower Upper

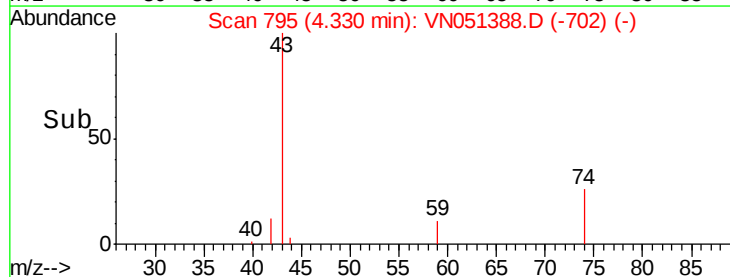
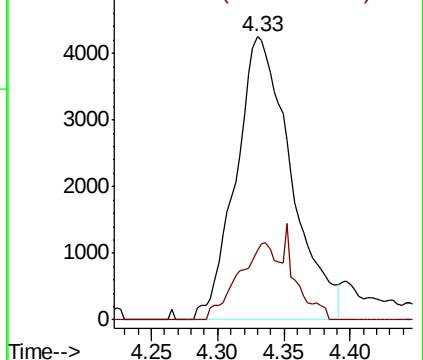
43 100

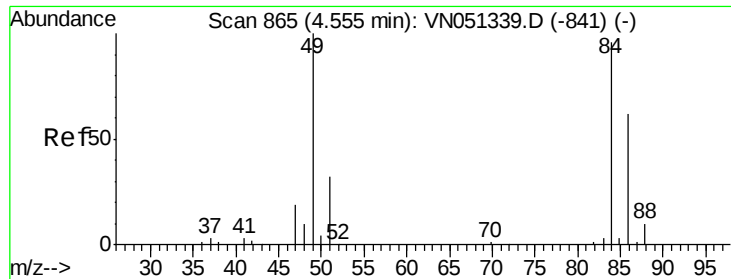
74 18.5 21.7 32.5#



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

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

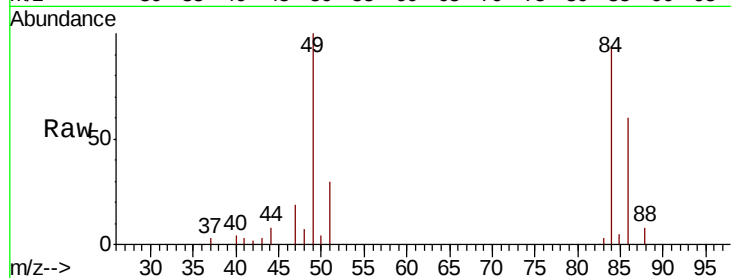




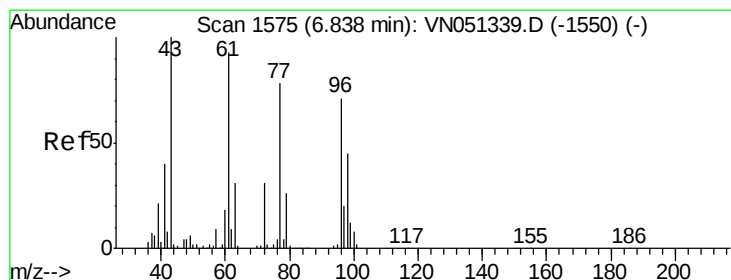
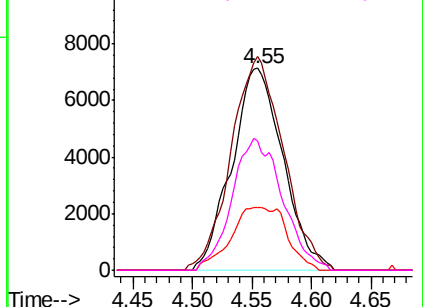
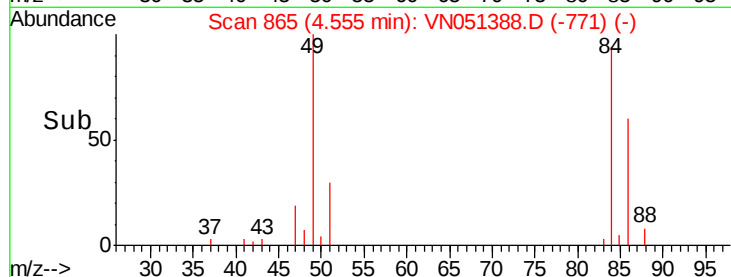
#20
Methvlene Chloride
Concen: 2.685 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051388.D
Acq: 21 Sep 2018 23:08

Tot Ion: 84 Resp: 21332

Ion	Ratio	Lower	Upper
84	100		
49	105.9	83.2	124.8
51	31.3	26.4	39.6
86	64.0	51.4	77.0



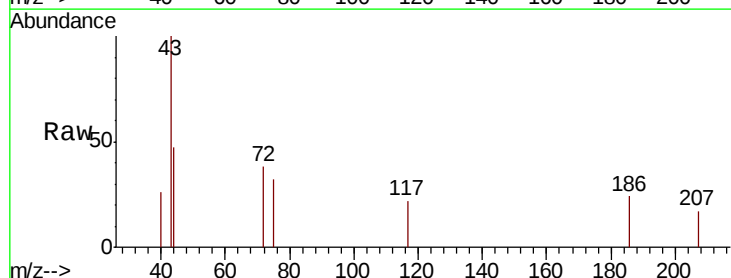
Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC



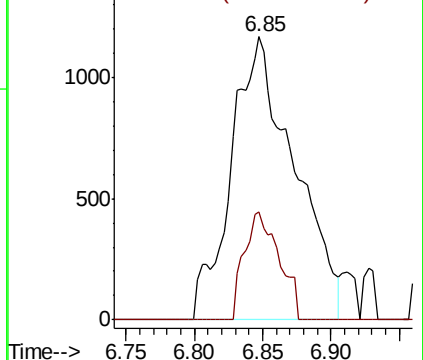
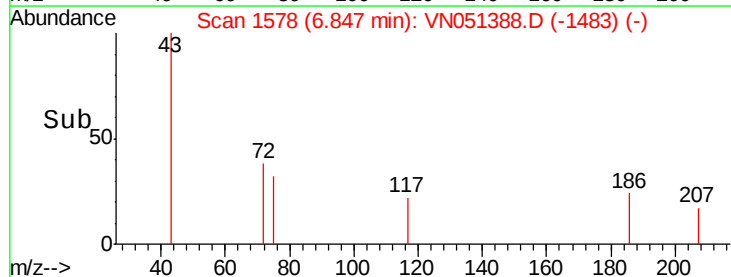
#25
2-Butanone
Concen: 1.701 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN051388.D
Acq: 21 Sep 2018 23:08

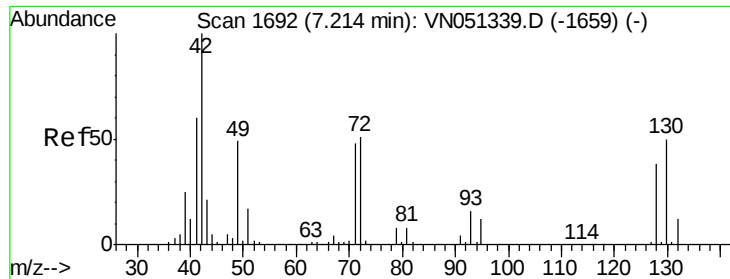
Tgt Ion: 43 Resp: 3757

Ion	Ratio	Lower	Upper
43	100		
72	38.0	24.7	37.1#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 72.00 (71.70 to 72.70): VNC





#29

Tetrahydrofuran

Concen: 0.844 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.00 min

Lab File: VN051388.D

Acq: 21 Sep 2018 23:08

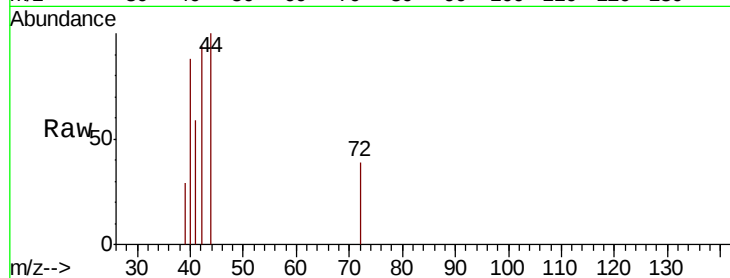
Tot Ion: 42 Resp: 1181

Ion Ratio Lower Upper

42 100

72 20.8 39.0 58.4#

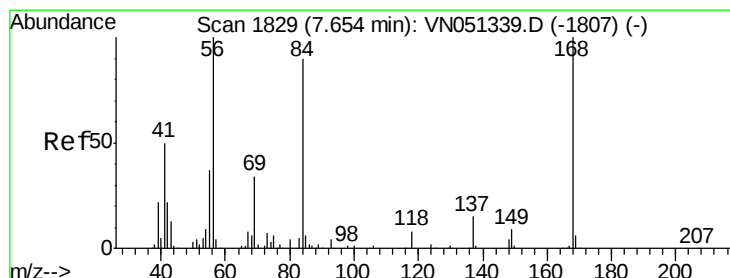
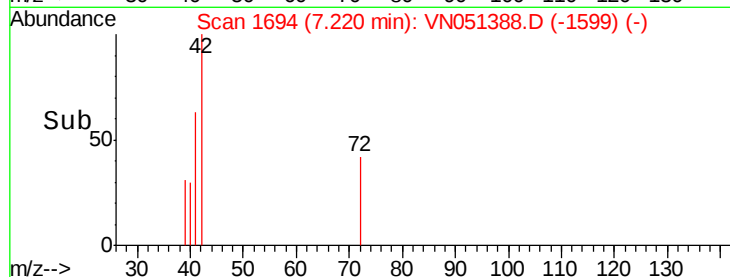
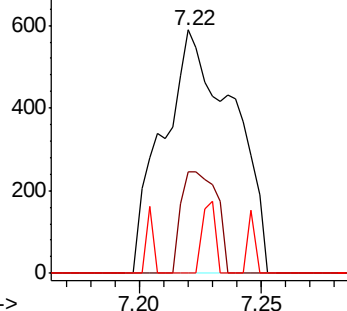
71 5.4 36.5 54.7#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.429 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051388.D

Acq: 21 Sep 2018 23:08

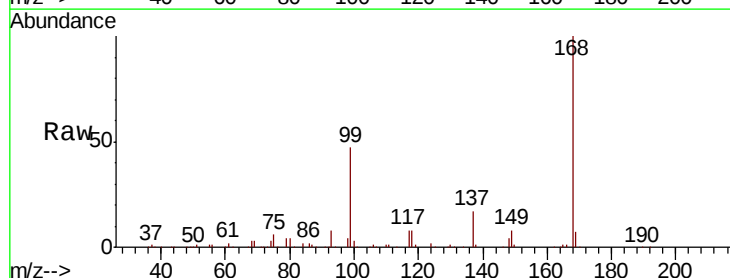
Tgt Ion: 56 Resp: 10023

Ion Ratio Lower Upper

56 100

69 233.1 27.3 40.9#

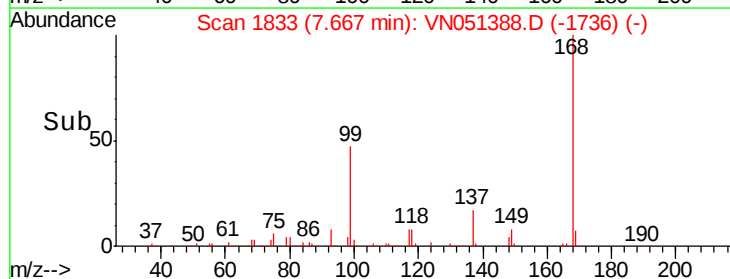
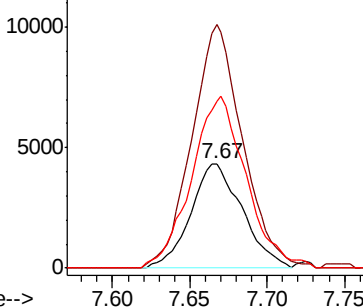
84 159.2 72.2 108.2#

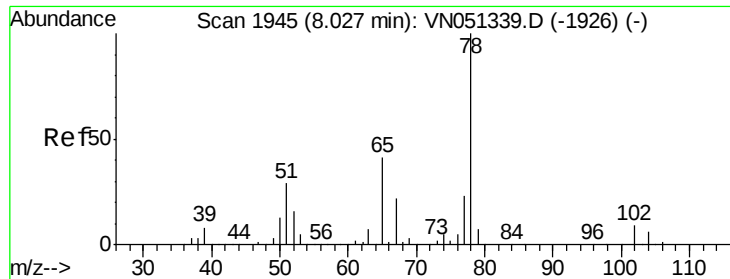


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 53.483 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051388.D

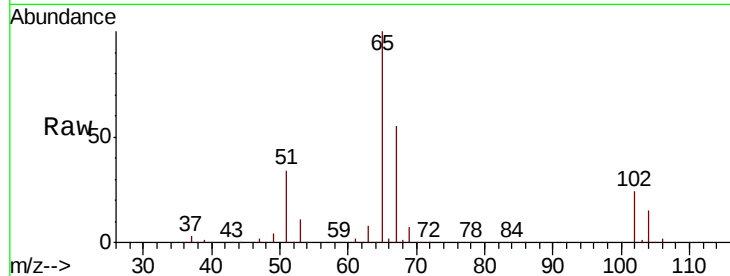
Acq: 21 Sep 2018 23:08

Tot Ion: 65 Resp: 413402

Ion Ratio Lower Upper

65 100

67 54.1 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

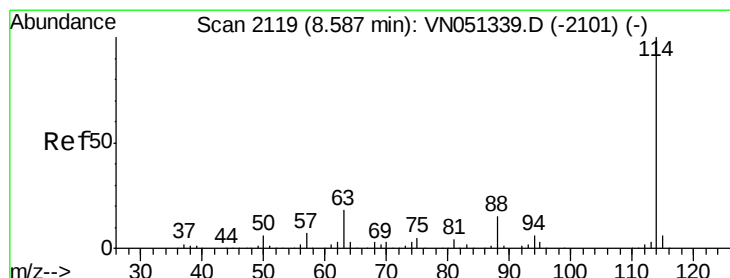
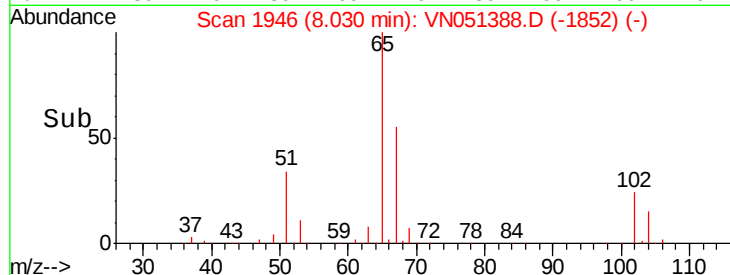
150000

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: VN051388.D

Acq: 21 Sep 2018 23:08

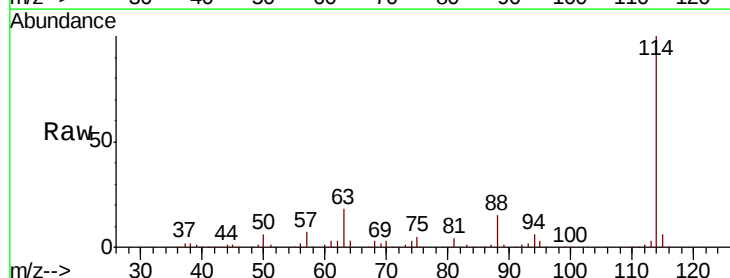
Tgt Ion: 114 Resp: 1087268

Ion Ratio Lower Upper

114 100

63 17.9 0.0 36.6

88 14.7 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

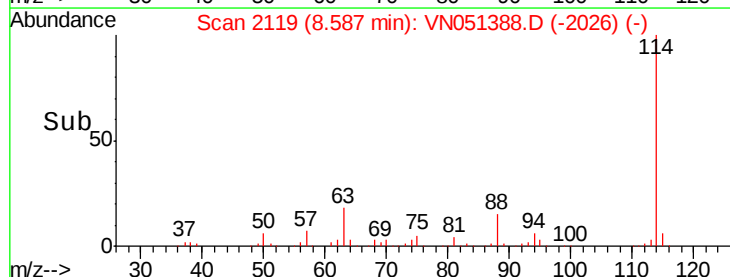
600000

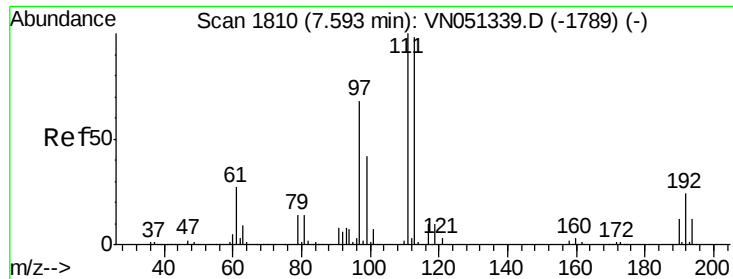
400000

200000

0

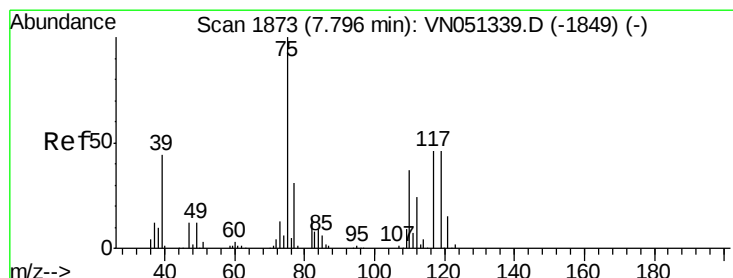
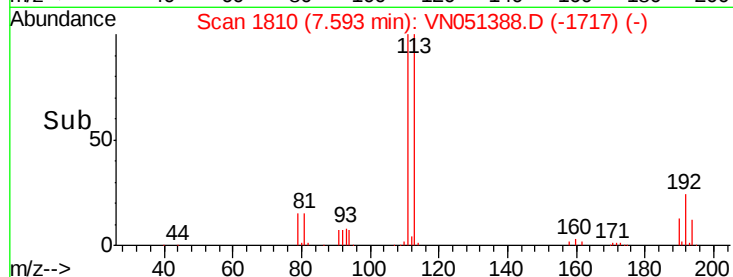
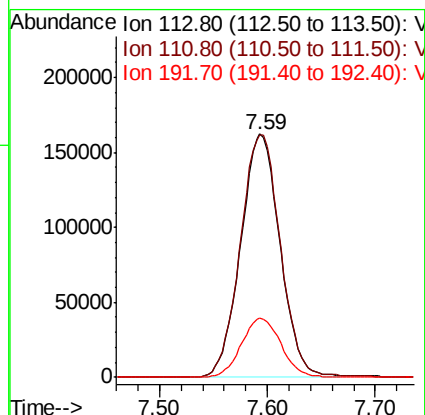
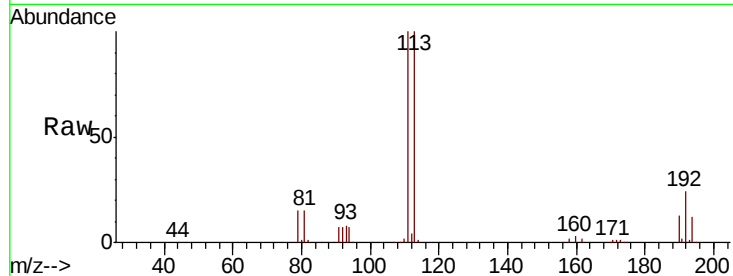
Time--> 8.50 8.60 8.70





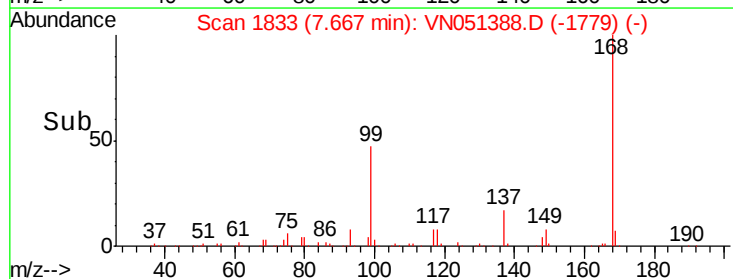
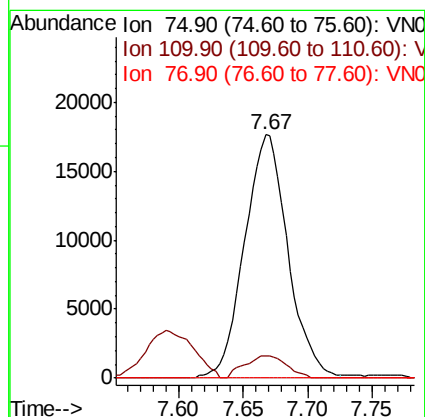
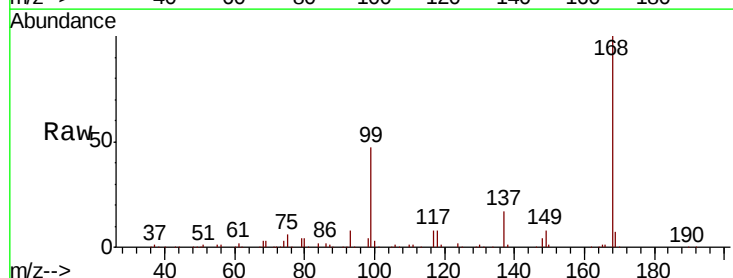
#35
 Dibromofluoromethane
 Concen: 46.814 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051388.D
 Acq: 21 Sep 2018 23:08

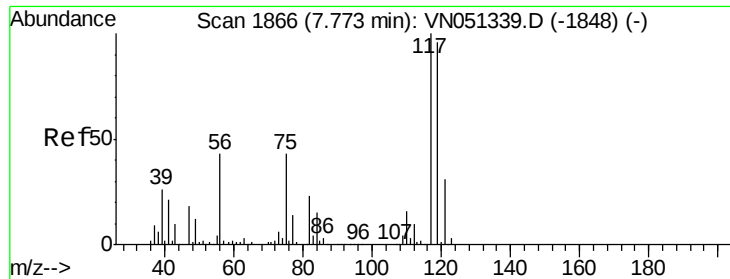
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	81.9	122.9
192	24.6	19.8	29.6



#36
 1,1-Dichloropropene
 Concen: 3.719 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051388.D
 Acq: 21 Sep 2018 23:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.9	56.5#
77	0.0	25.4	38.2#





#38

Carbon Tetrachloride

Concen: 5.039 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN051388.D

Acq: 21 Sep 2018 23:08

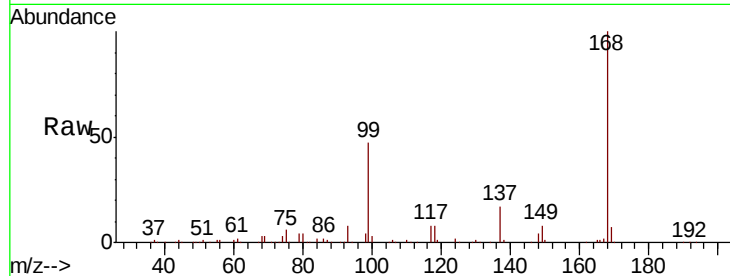
Tot Ion:117 Resp: 60630

Ion Ratio Lower Upper

117 100

119 6.4 77.0 115.4#

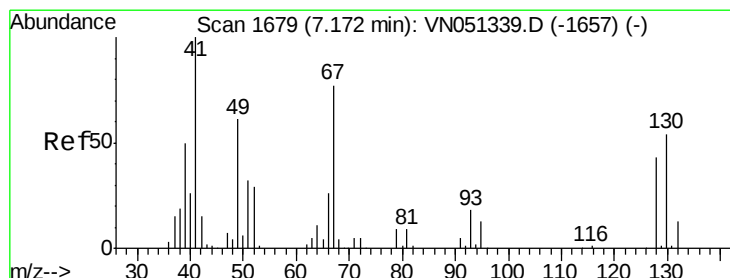
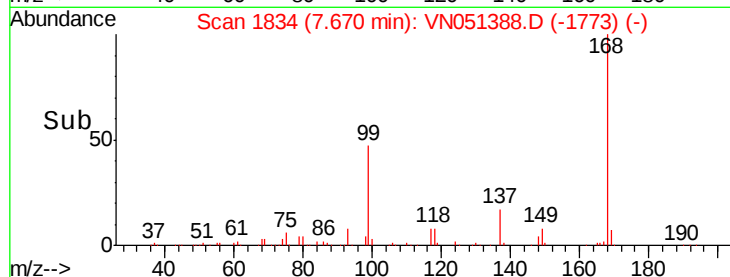
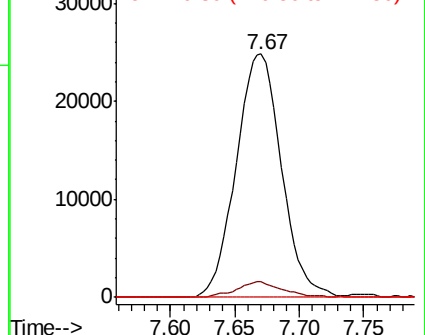
121 0.0 25.0 37.4#



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: 0.230 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.05 min

Lab File: VN051388.D

Acq: 21 Sep 2018 23:08

Tgt Ion: 41 Resp: 659

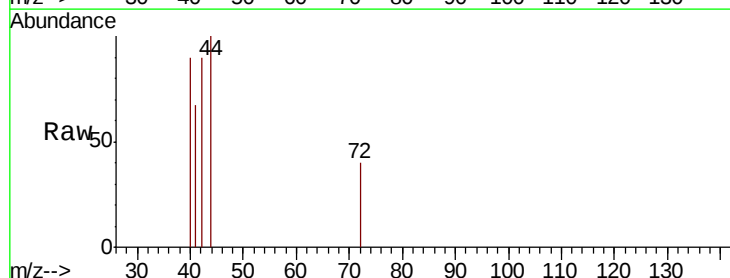
Ion Ratio Lower Upper

41 100

39 9.9 51.3 76.9#

67 0.0 77.0 115.4#

52 0.0 30.4 45.6#

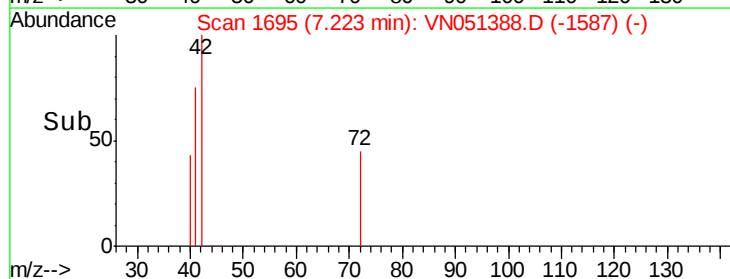
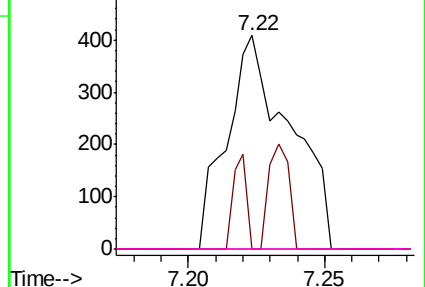


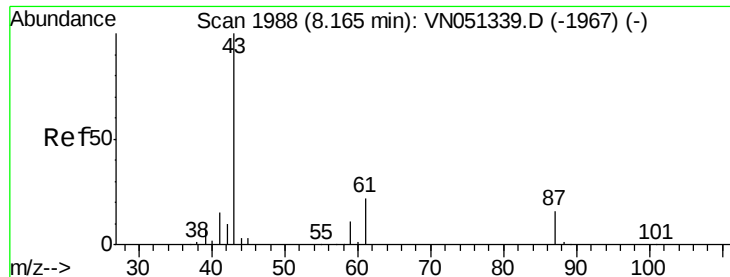
Abundance Ion 41.00 (40.70 to 41.70): VNO

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: 28.583 ug/l

RT: 8.17 min Scan# 1989

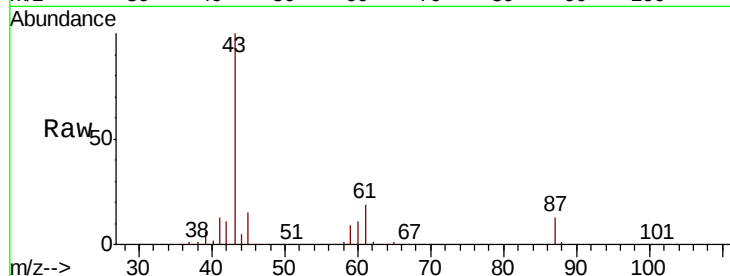
Delta R.T. 0.00 min

Lab File: VN051388.D

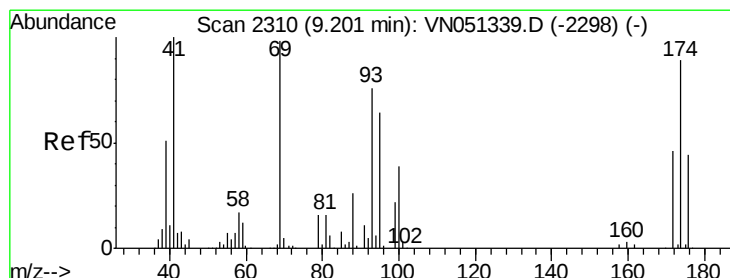
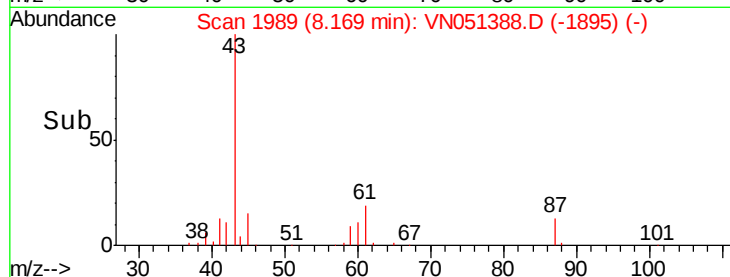
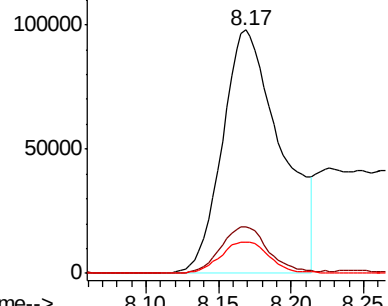
Acq: 21 Sep 2018 23:08

Tot Ion: 43 Resp: 275608

Ion	Ratio	Lower	Upper
43	100		
61	15.6	18.1	27.1#
87	10.9	12.8	19.2#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 61.00 (60.70 to 61.70): VNC
Ion 87.00 (86.70 to 87.70): VNC



#48

Methyl methacrylate

Concen: 0.984 ug/l

RT: 9.18 min Scan# 2302

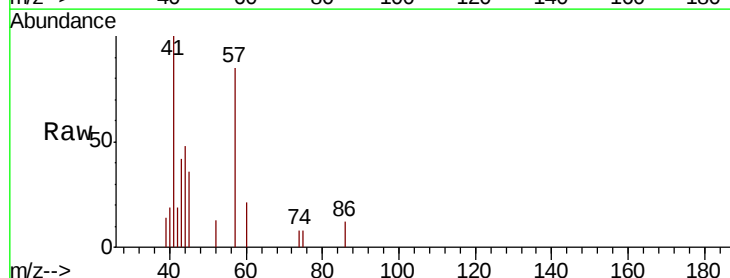
Delta R.T. -0.03 min

Lab File: VN051388.D

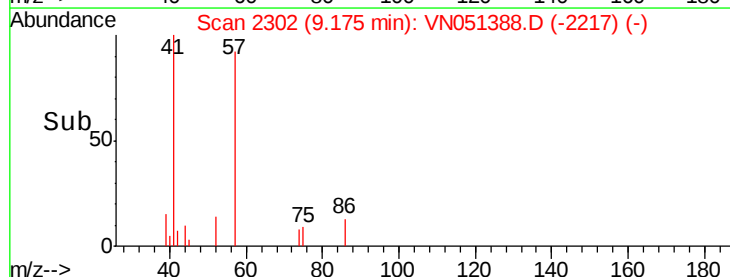
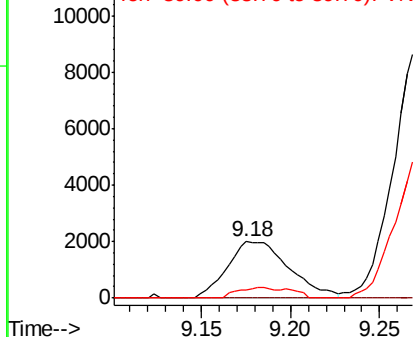
Acq: 21 Sep 2018 23:08

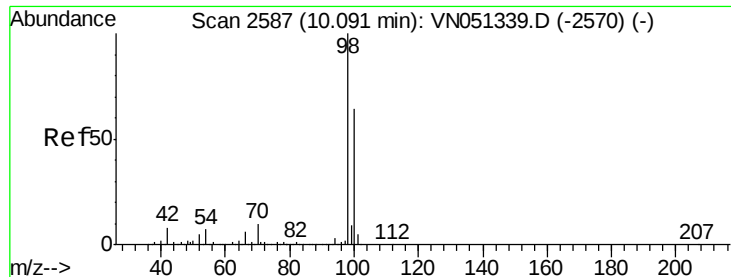
Tgt Ion: 41 Resp: 4839

Ion	Ratio	Lower	Upper
41	100		
69	0.0	79.4	119.0#
39	10.6	43.0	64.6#



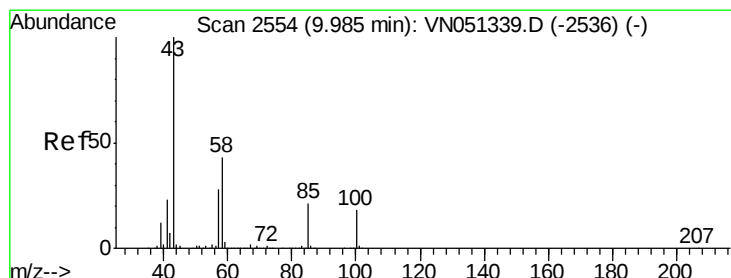
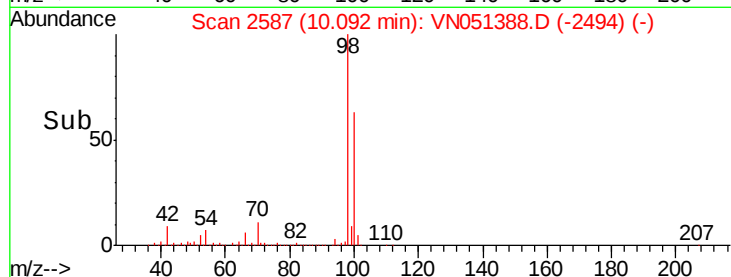
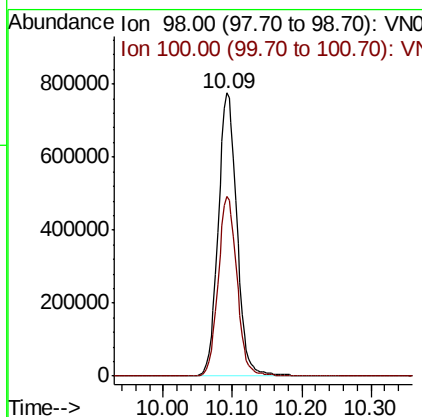
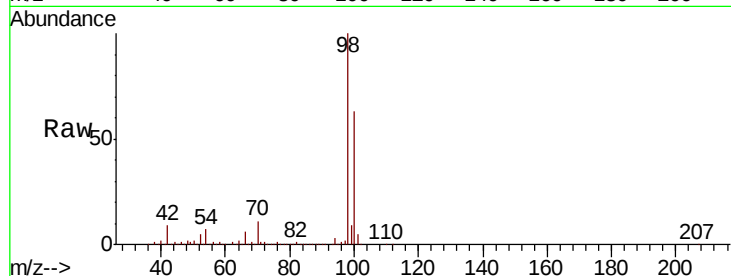
Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC





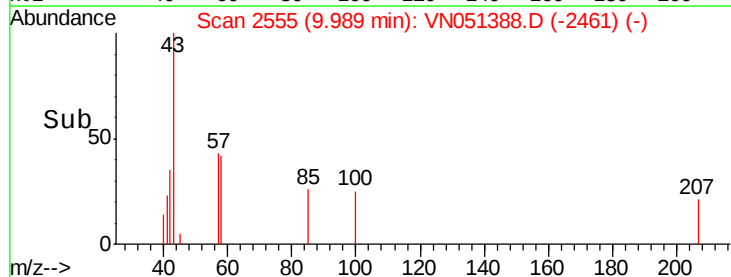
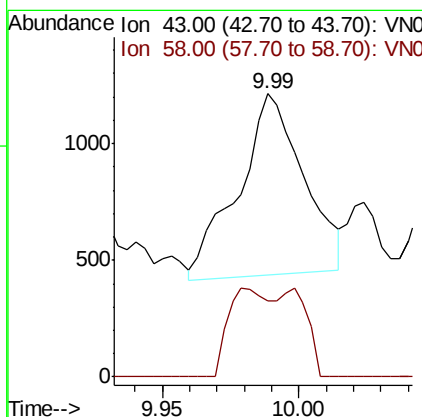
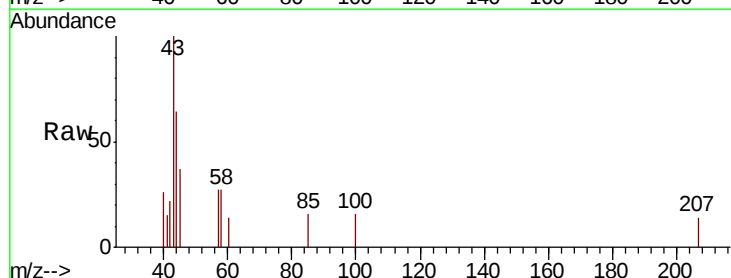
#50
Toluene-d8
Concen: 43.026 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051388.D
Acq: 21 Sep 2018 23:08

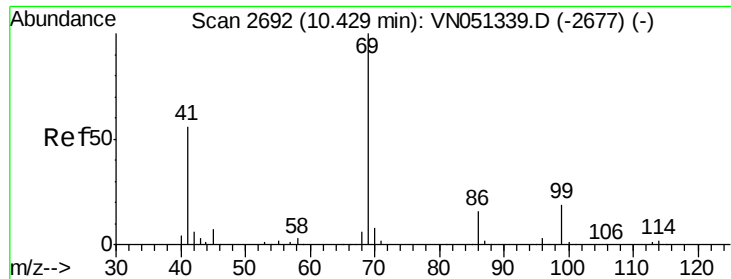
Tot Ion: 98 Resp: 1453328
Ion Ratio Lower Upper
98 100
100 63.6 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 0.250 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051388.D
Acq: 21 Sep 2018 23:08

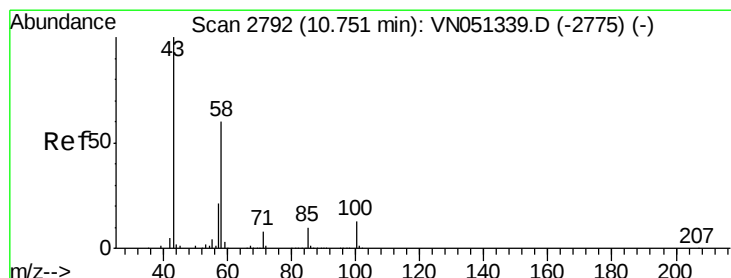
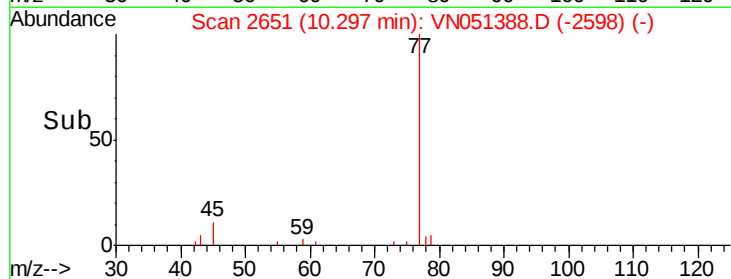
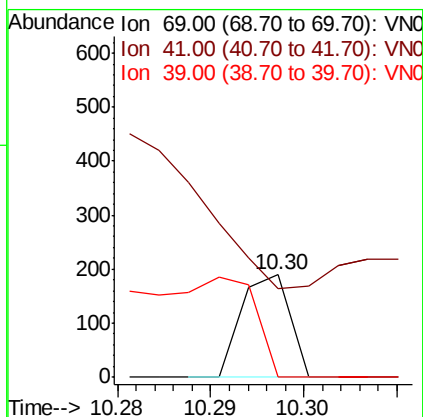
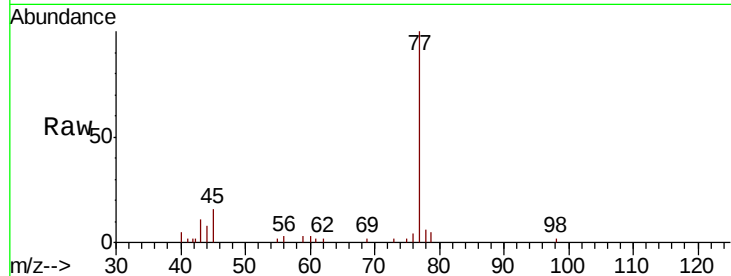
Tgt Ion: 43 Resp: 1297
Ion Ratio Lower Upper
43 100
58 34.0 34.2 51.4#





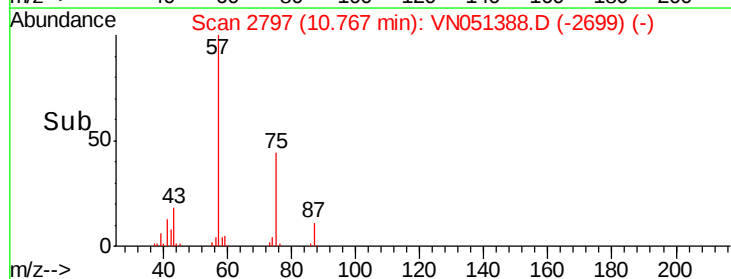
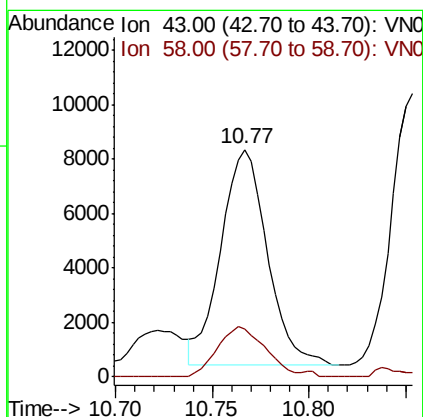
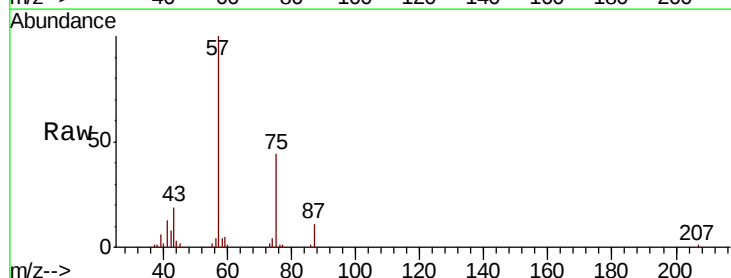
#56
Ethyl methacrylate
Concen: 1.584 ug/l
RT: 10.30 min Scan# 2651
Delta R.T. -0.13 min
Lab File: VN051388.D
Acq: 21 Sep 2018 23:08

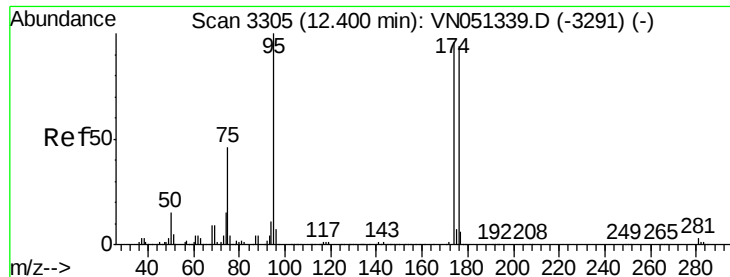
Tot Ion: 69 Resp: 69
Ion Ratio Lower Upper
69 100
41 292.8 45.1 67.7#
39 0.0 23.4 35.2#



#59
2-Hexanone
Concen: 3.791 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN051388.D
Acq: 21 Sep 2018 23:08

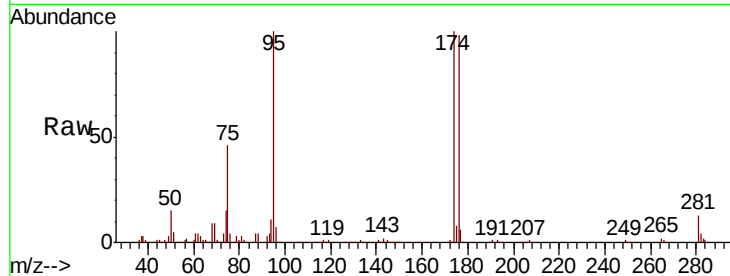
Tgt Ion: 43 Resp: 13256
Ion Ratio Lower Upper
43 100
58 24.7 29.9 89.8#



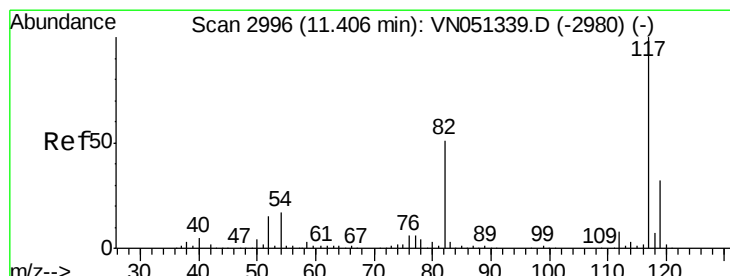
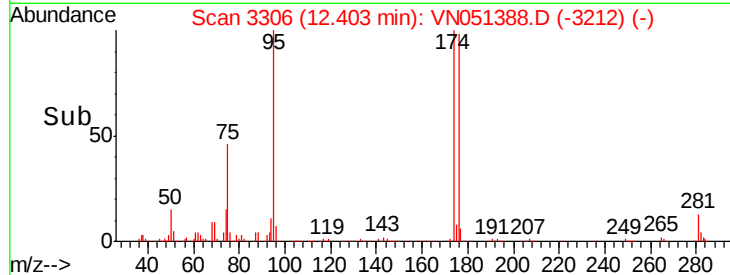
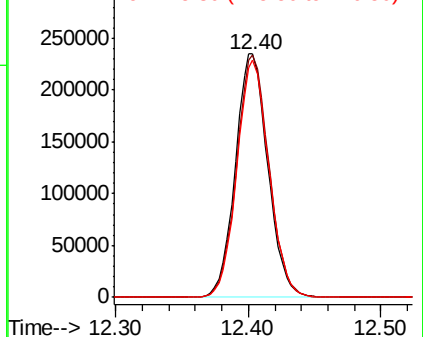


#62
4-Bromofluorobenzene
Concen: 36.207 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051388.D
Acq: 21 Sep 2018 23:08

Tot Ion:	95	Resp:	397882
Ion	Ratio	Lower	Upper
95	100		
174	99.6	0.0	194.6
176	96.2	0.0	189.6

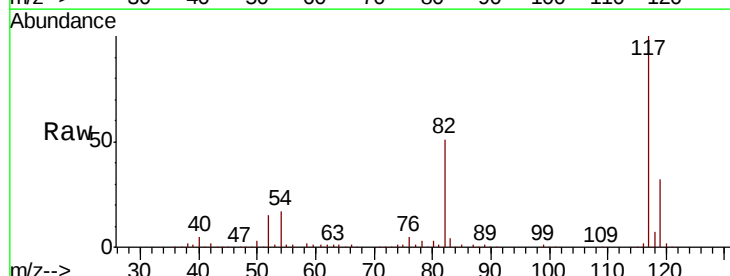


Abundance Ion 94.90 (94.60 to 95.60): VN051339.D (-3291) (-)
Ion 173.80 (173.50 to 174.50): VN051339.D (-3291) (-)
Ion 175.80 (175.50 to 176.50): VN051339.D (-3291) (-)

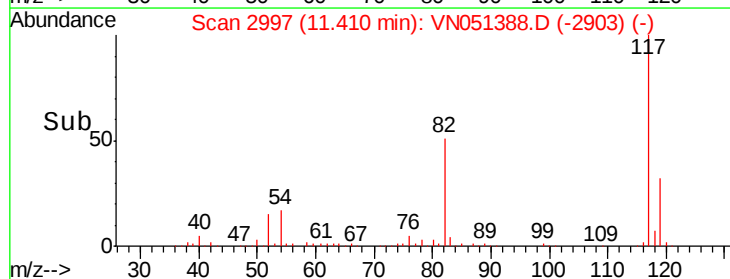
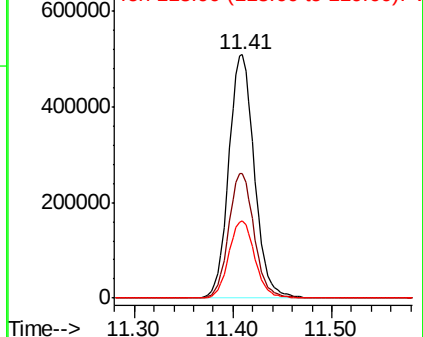


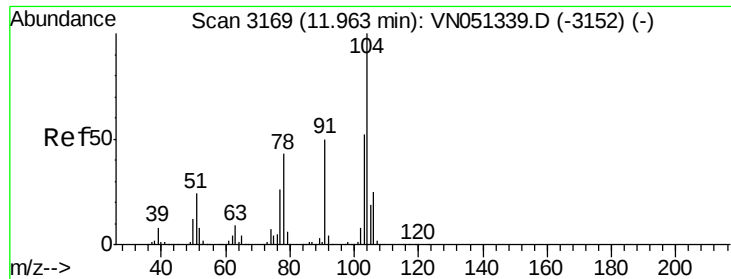
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051388.D
Acq: 21 Sep 2018 23:08

Tgt Ion:	117	Resp:	914627
Ion	Ratio	Lower	Upper
117	100		
82	51.2	40.7	61.1
119	32.0	25.3	37.9



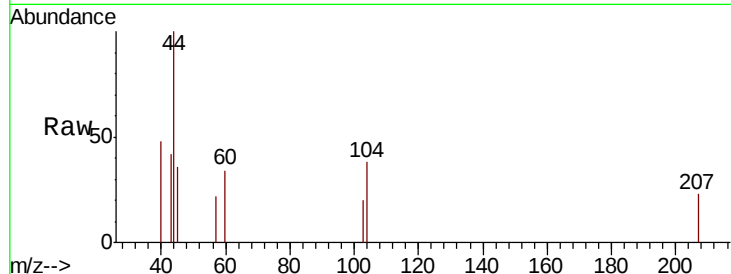
Abundance Ion 116.90 (116.60 to 117.60): VN051339.D (-2980) (-)
Ion 82.00 (81.70 to 82.70): VN051339.D (-2980) (-)
Ion 118.90 (118.60 to 119.60): VN051339.D (-2980) (-)



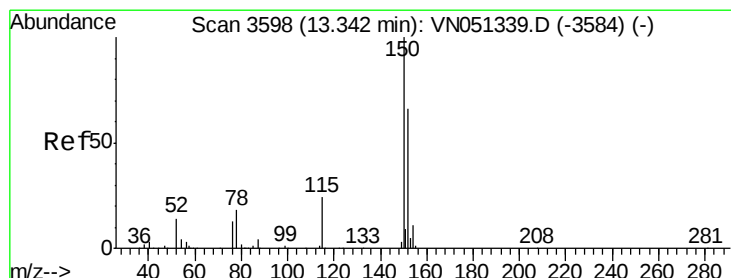
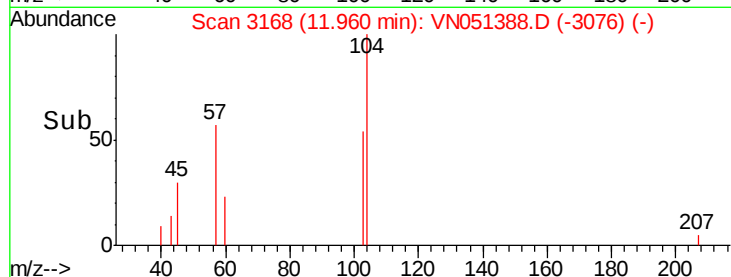
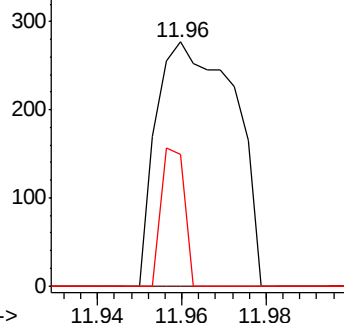


#70
Stvrene
Concen: 0.909 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. -0.00 min
Lab File: VN051388.D
Acq: 21 Sep 2018 23:08

Tot Ion	Ratio	Lower	Upper
104	100		
78	0.0	37.8	56.6#
103	16.7	44.3	66.5#

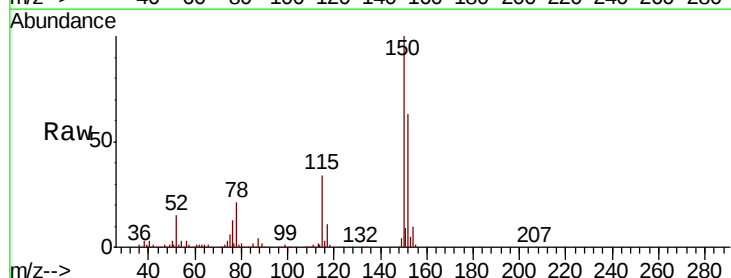


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN0
Ion 103.00 (102.70 to 103.70): V

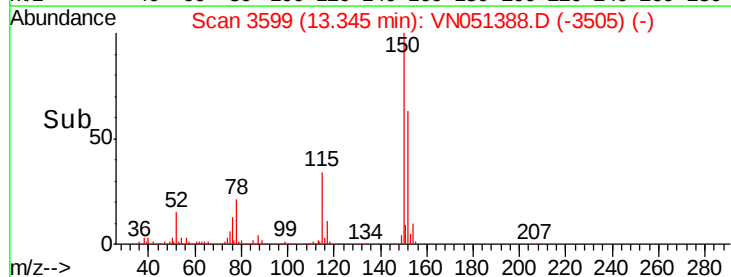
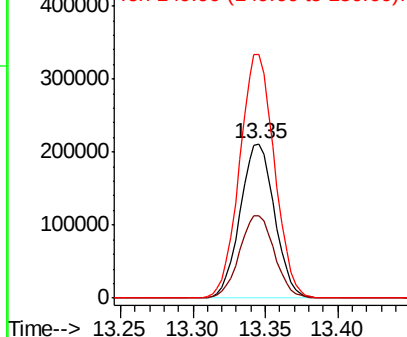


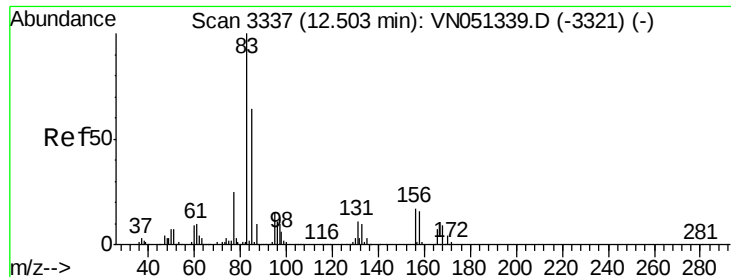
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051388.D
Acq: 21 Sep 2018 23:08

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.3	26.9	80.7
150	159.4	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: 12.39 min Scan# 3302

Delta R.T. -0.11 min

Lab File: VN051388.D

Acq: 21 Sep 2018 23:08

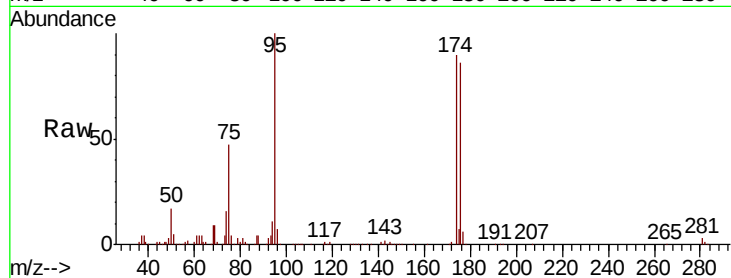
Tot Ion: 83 Resp: 138

Ion Ratio Lower Upper

83 100

131 614.5 5.5 16.7#

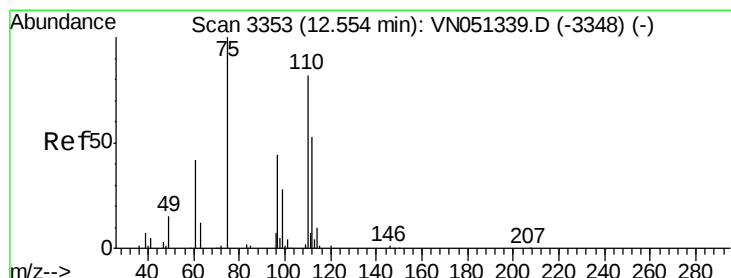
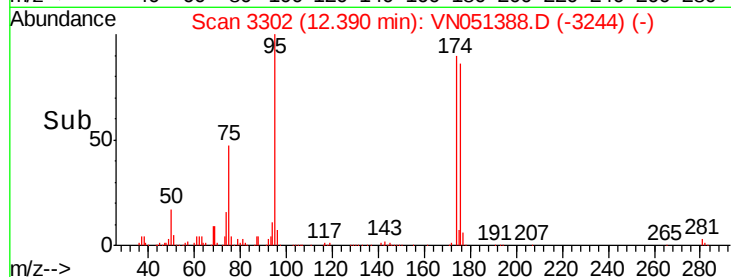
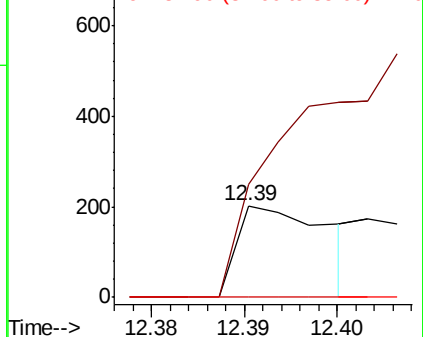
85 0.0 32.3 96.9#



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: 39.334 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051388.D

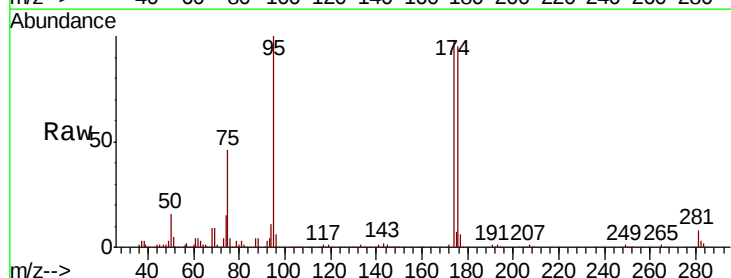
Acq: 21 Sep 2018 23:08

Tgt Ion: 75 Resp: 183866

Ion Ratio Lower Upper

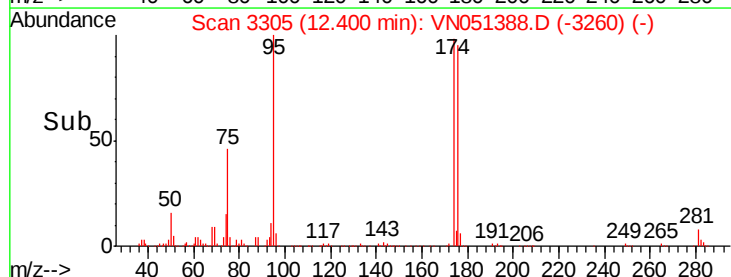
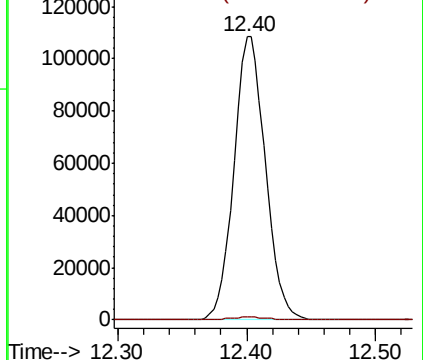
75 100

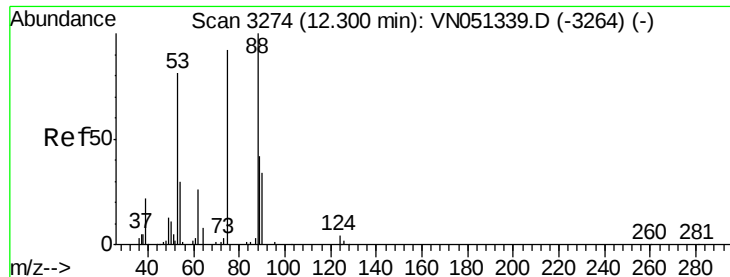
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

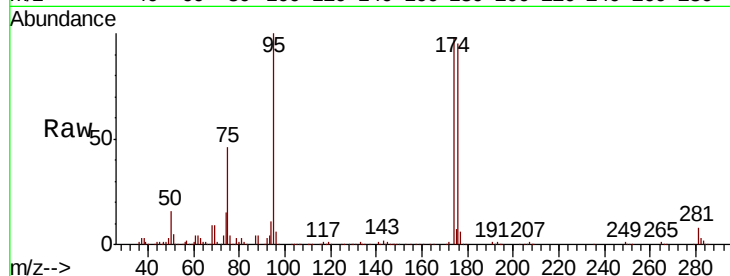
Ion 77.00 (76.70 to 77.70): VN0





#81
trans-1,4-Dichloro-2-butene
Concen: 118.094 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN051388.D
Acq: 21 Sep 2018 23:08

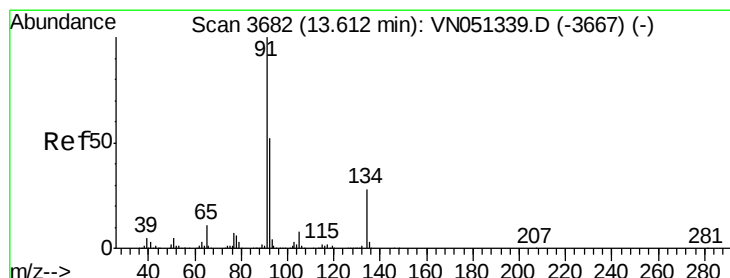
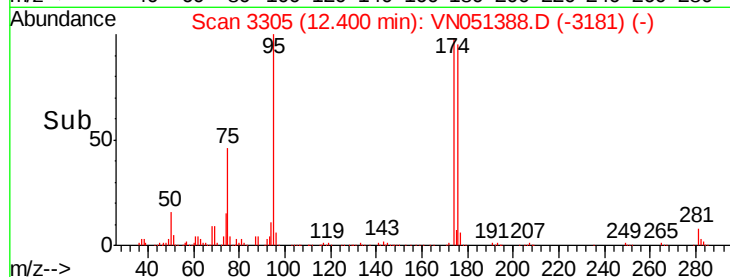
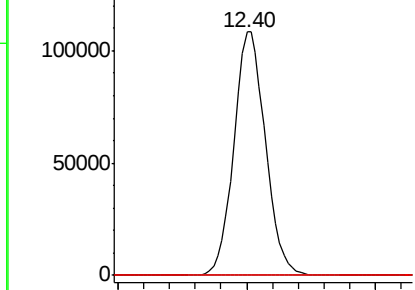
Tot Ion	Ratio	Lower	Upper
75	100		
53	0.1	69.9	104.9#
89	0.0	37.9	56.9#



Abundance Ion 74.90 (74.60 to 75.60): VN051339.D (-3264) (-)

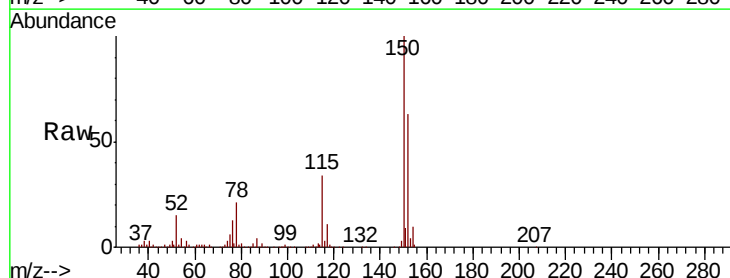
Ion 53.00 (52.70 to 53.70): VN051339.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN051339.D (-3264) (-)



#89
n-Butylbenzene
Concen: 1.472 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.27 min
Lab File: VN051388.D
Acq: 21 Sep 2018 23:08

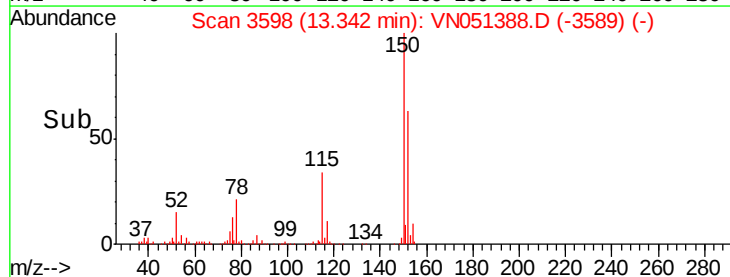
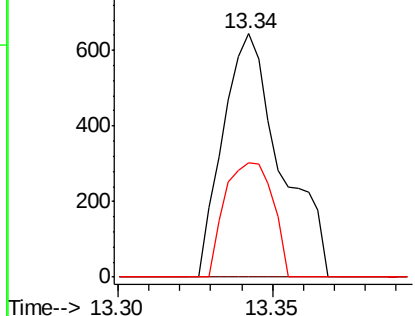
Tgt Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.0	78.0#
134	39.0	14.1	42.4

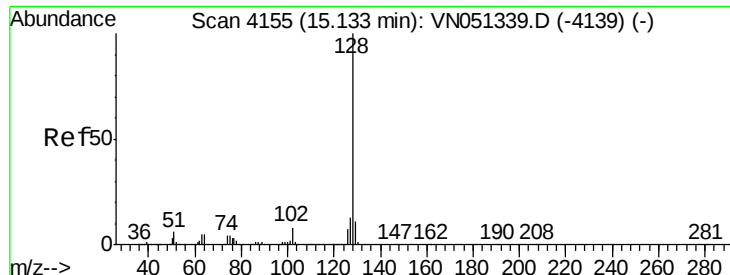


Abundance Ion 91.00 (90.70 to 91.70): VN051339.D (-3667) (-)

Ion 92.00 (91.70 to 92.70): VN051339.D (-3667) (-)

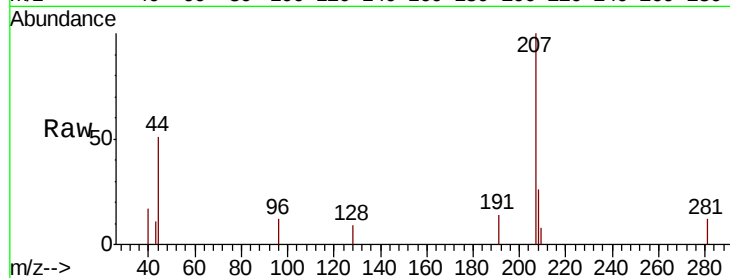
Ion 134.00 (133.70 to 134.70): VN051339.D (-3667) (-)



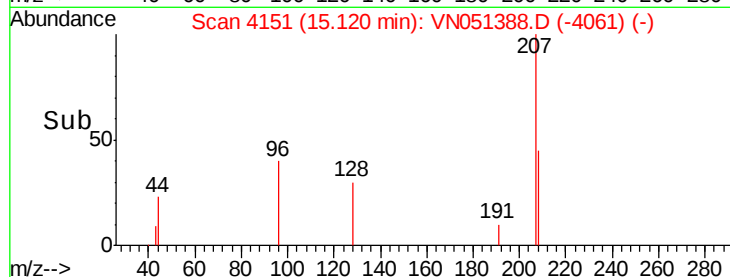
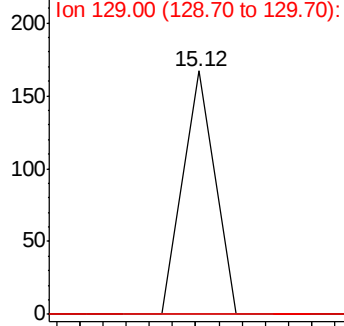


#95
Naphthalene
Concen: 5.334 ug/l
RT: 15.12 min Scan# 4151
Delta R.T. -0.01 min
Lab File: VN051388.D
Acq: 21 Sep 2018 23:08

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



Time-->