

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN110618\
 Data File : VN052189.D
 Acq On : 6 Nov 2018 13:55
 Operator : MD\SY
 Sample : J5826-08
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-2

Quant Time: Nov 06 14:15:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 05 15:24:48 2018
 Response via : Initial Calibration

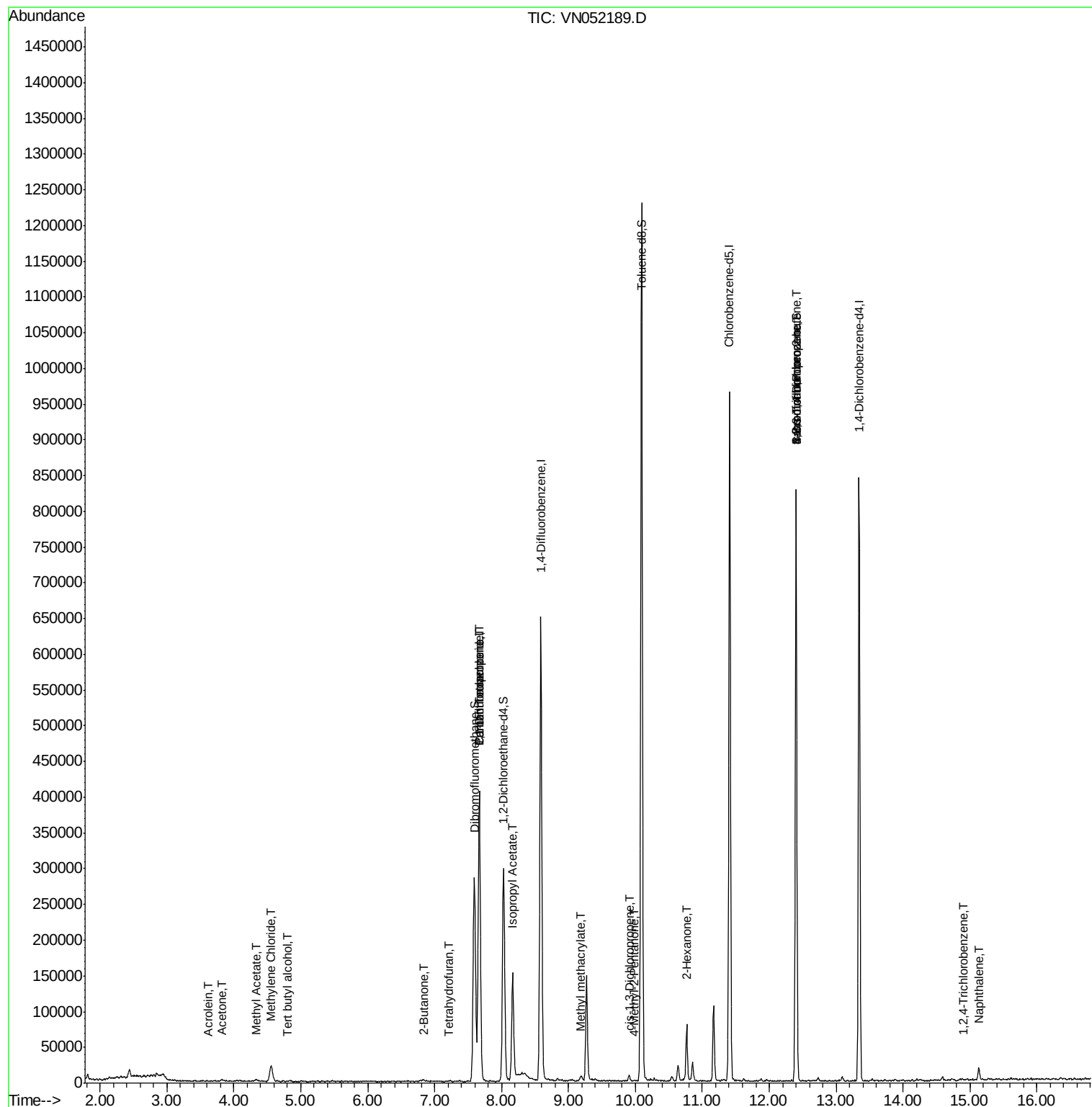
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	311185	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	577897	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	544920	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	208499	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	244456	66.25	ug/l	0.00
Spiked Amount 50.000			Recovery	=	132.50%	
35) Dibromofluoromethane	7.59	113	213989	59.64	ug/l	0.00
Spiked Amount 50.000			Recovery	=	119.28%	
50) Toluene-d8	10.09	98	851725	61.40	ug/l	0.00
Spiked Amount 50.000			Recovery	=	122.80%	
62) 4-Bromofluorobenzene	12.40	95	278034	61.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	122.12%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.80	59	66	0.410	ug/l #	1
13) Acrolein	3.63	56	98	32.909	ug/l #	61
16) Acetone	3.83	43	5259	6.291	ug/l #	66
18) Methyl Acetate	4.33	43	4945	1.911	ug/l #	77
20) Methylene Chloride	4.55	84	15126	4.354	ug/l	96
25) 2-Butanone	6.84	43	895	0.690	ug/l #	50
29) Tetrahydrofuran	7.22	42	219	0.273	ug/l #	42
31) Cyclohexane	7.67	56	8130	Below Cal	#	10
36) 1,1-Dichloropropene	7.67	75	26077	5.101	ug/l #	52
38) Carbon Tetrachloride	7.67	117	33234	6.507	ug/l #	18
43) Isopropyl Acetate	8.17	43	179321	30.742	ug/l	98
48) Methyl methacrylate	9.18	41	4535	1.615	ug/l #	17
49) 1,4-Dioxane	9.29	88	64	Below Cal	#	1
51) 4-Methyl-2-Pentanone	9.99	43	679	0.220	ug/l	97
54) cis-1,3-Dichloropropene	9.90	75	1296	0.229	ug/l #	57
59) 2-Hexanone	10.77	43	11498	5.360	ug/l #	63
71) Bromoform	12.40	173	2139	3.607	ug/l #	1
74) N-amyl acetate	12.09	43	167	Below Cal	#	50
76) 1,2,3-Trichloropropane	12.40	75	140879	51.120	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	140879	153.736	ug/l #	9
93) 1,2,4-Trichlorobenzene	14.90	180	76	2.261	ug/l #	20
95) Naphthalene	15.13	128	14187	2.222	ug/l	97

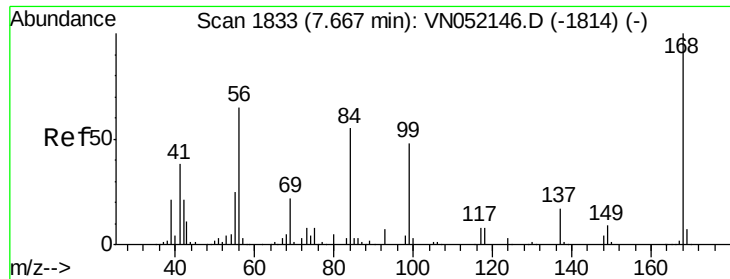
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN052189.D

Acq: 6 Nov 2018 13:55

Instrument :

MSVOA_N

ClientSampleId :

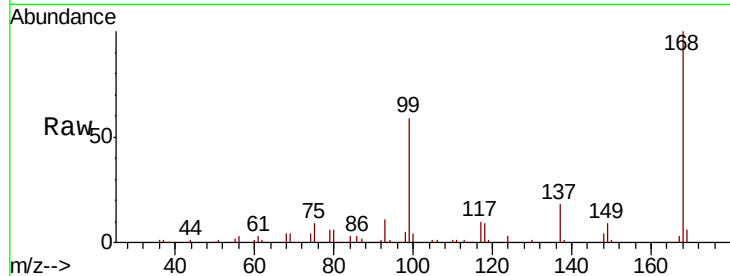
SB-2

Tgt Ion: 168 Resp: 311185

Ion Ratio Lower Upper

168 100

99 59.5 56.6 85.0



Abundance Ion 167.90 (167.60 to 168.60): VN052146.D (-1814) (-)

Ion 98.90 (98.60 to 99.60): VN052146.D (-1814) (-)

7.67

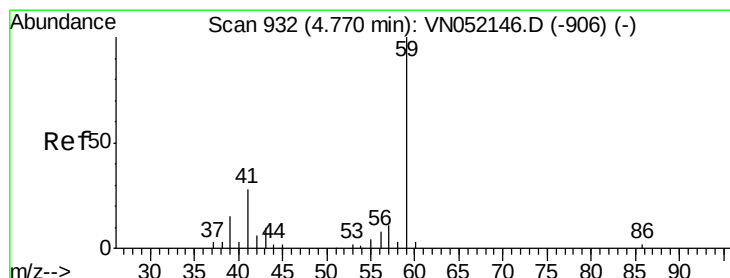
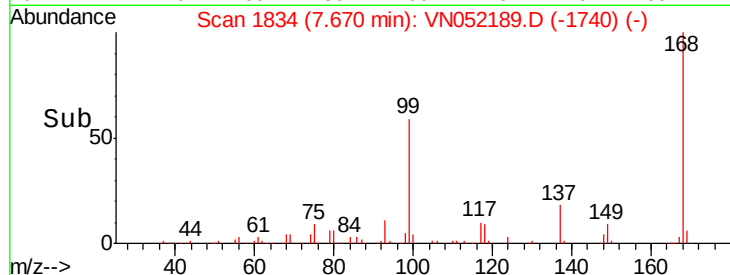
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.410 ug/l

RT: 4.80 min Scan# 942

Delta R.T. 0.03 min

Lab File: VN052189.D

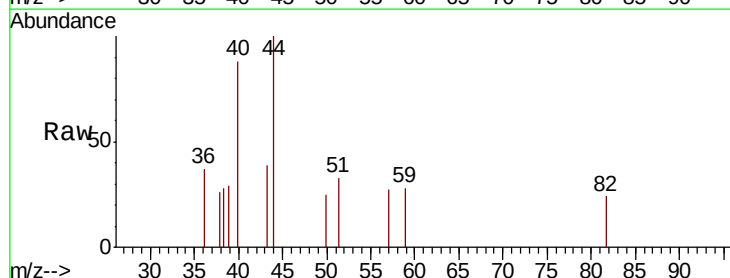
Acq: 6 Nov 2018 13:55

Tgt Ion: 59 Resp: 66

Ion Ratio Lower Upper

59 100

57 165.2 7.0 10.6#



Abundance Ion 59.00 (58.70 to 59.70): VN052146.D (-906) (-)

Ion 57.00 (56.70 to 57.70): VN052146.D (-906) (-)

4.80

200

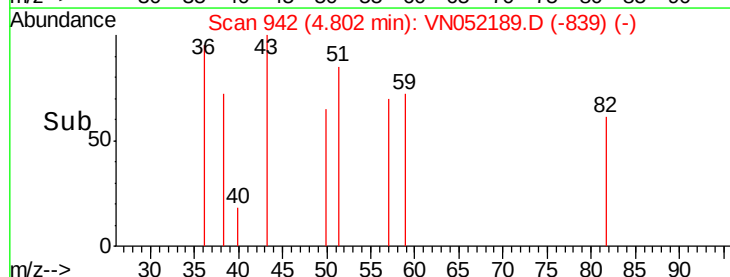
150

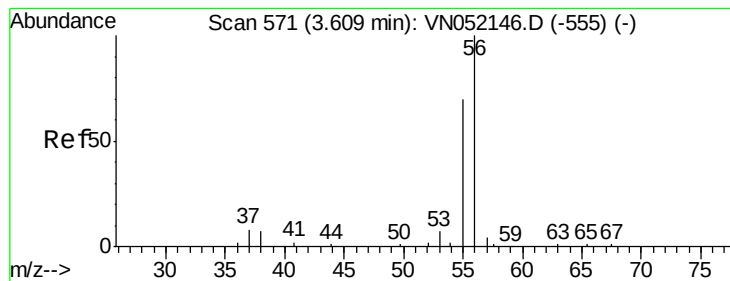
100

50

0

Time-->





#13

Acrolein

Concen: 32.909 ug/l

RT: 3.63 min Scan# 576

Delta R.T. 0.02 min

Lab File: VN052189.D

Acq: 6 Nov 2018 13:55

Instrument :

MSVOA_N

ClientSampled :

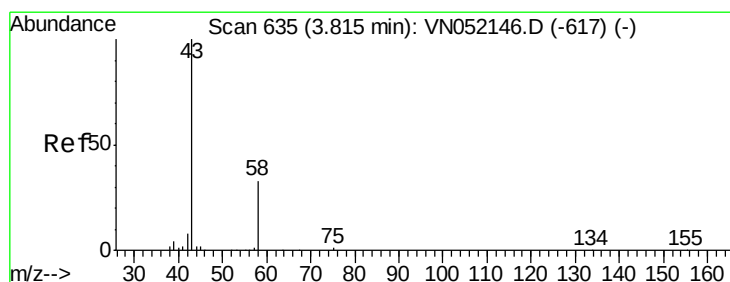
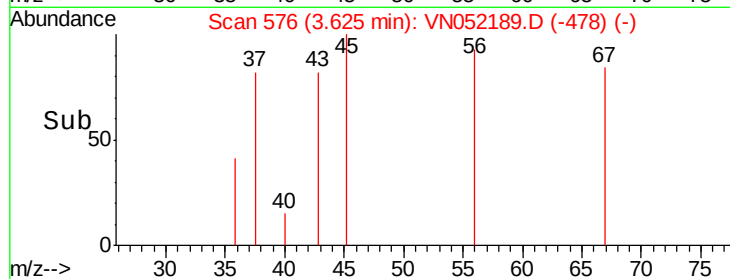
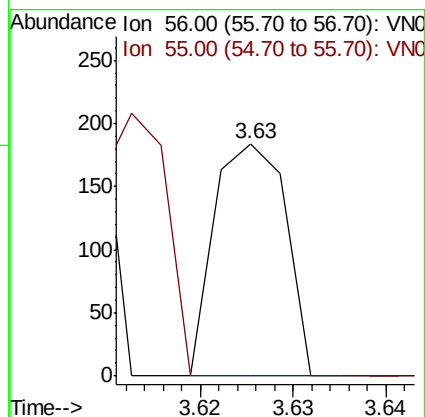
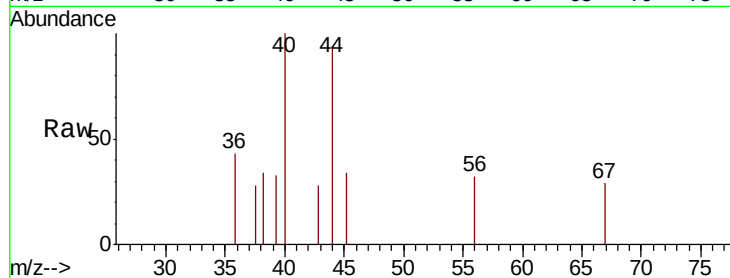
SB-2

Tgt Ion: 56 Resp: 98

Ion Ratio Lower Upper

56 100

55 108.2 59.9 89.9#



#16

Acetone

Concen: 6.291 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN052189.D

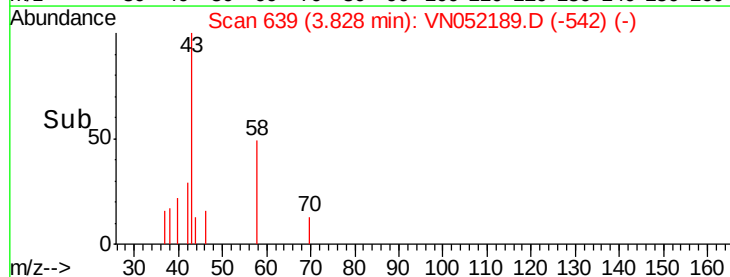
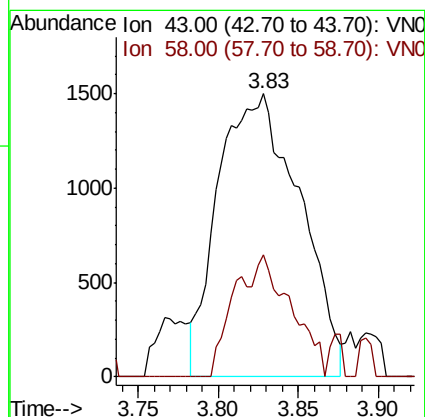
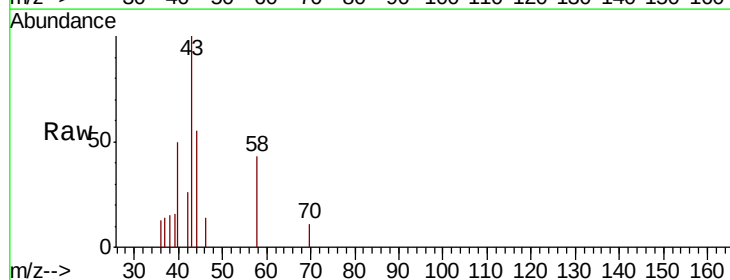
Acq: 6 Nov 2018 13:55

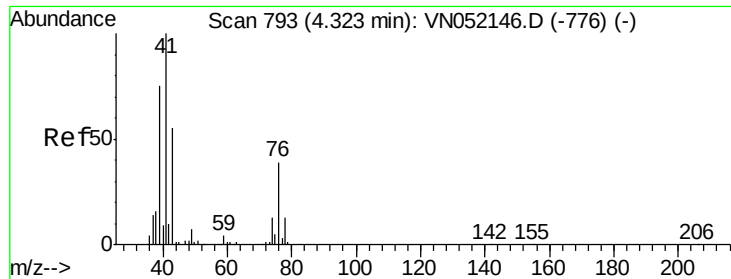
Tgt Ion: 43 Resp: 5259

Ion Ratio Lower Upper

43 100

58 48.8 24.2 36.2#

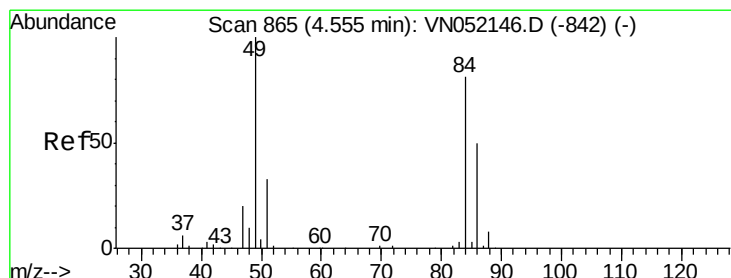
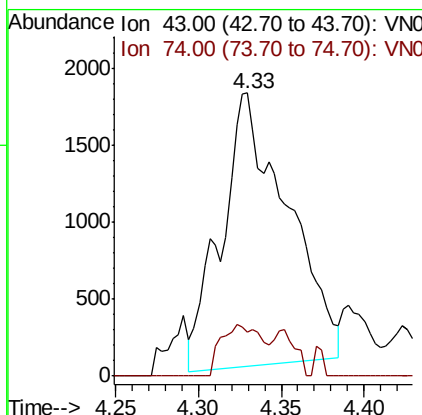
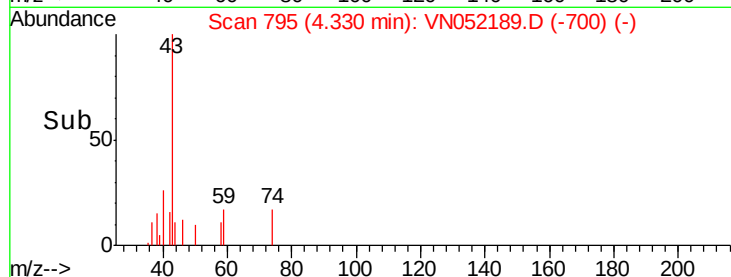
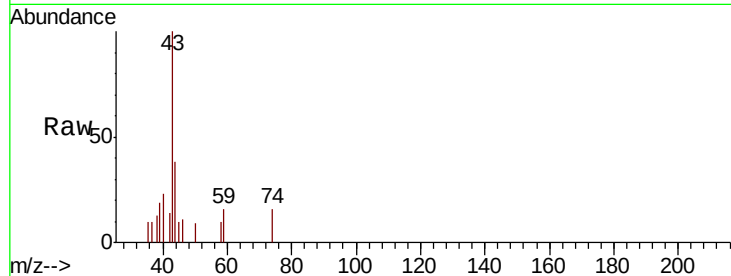




#18
Methyl Acetate
Concen: 1.911 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN052189.D
Acq: 6 Nov 2018 13:55

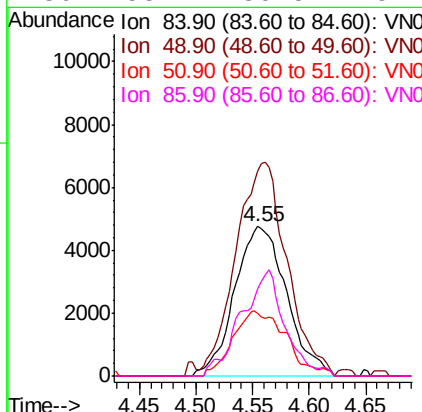
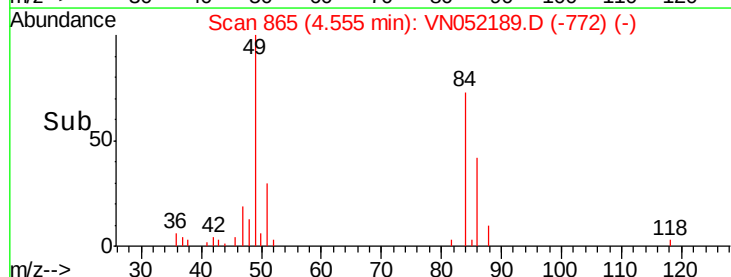
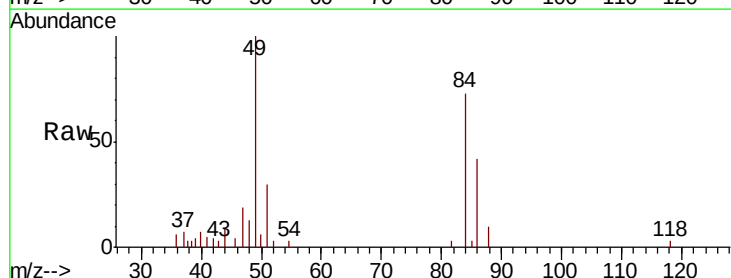
Instrument :
MSVOA_N
ClientSampleId :
SB-2

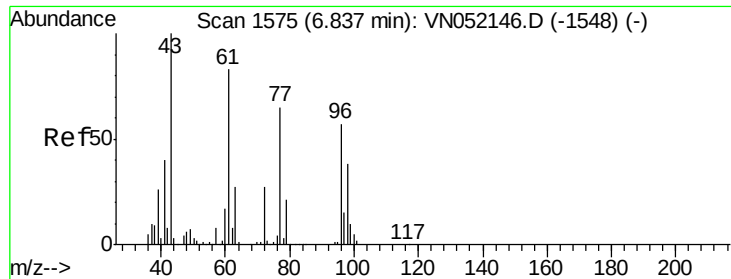
Tgt Ion: 43 Resp: 4945
Ion Ratio Lower Upper
43 100
74 11.5 17.9 26.9#



#20
Methylene Chloride
Concen: 4.354 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052189.D
Acq: 6 Nov 2018 13:55

Tgt Ion: 84 Resp: 15126
Ion Ratio Lower Upper
84 100
49 134.2 110.6 165.8
51 41.7 33.7 50.5
86 58.1 50.5 75.7





#25

2-Butanone

Concen: 0.690 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN052189.D

Acq: 6 Nov 2018 13:55

Instrument :

MSVOA_N

ClientSampled :

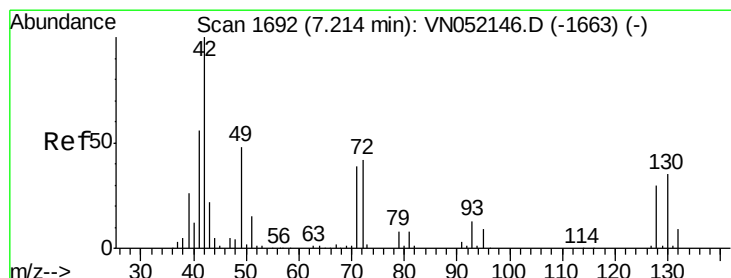
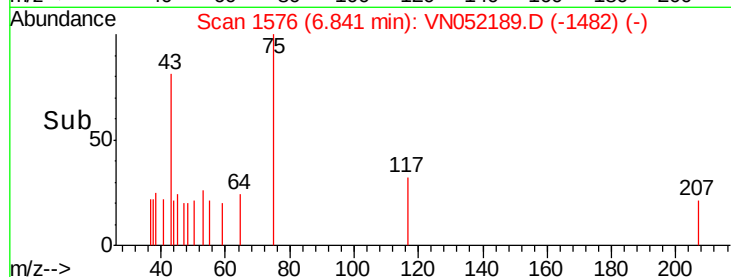
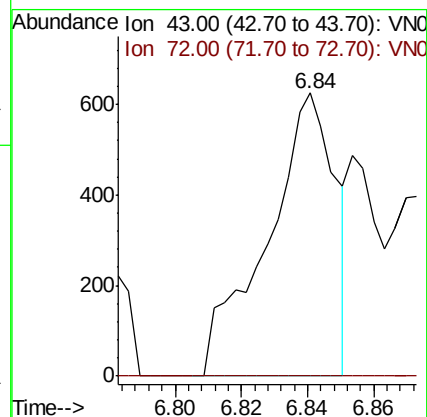
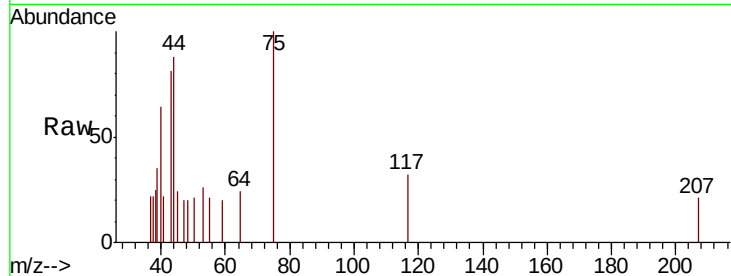
SB-2

Tgt Ion: 43 Resp: 895

Ion Ratio Lower Upper

43 100

72 0.0 20.2 30.2#



#29

Tetrahydrofuran

Concen: 0.273 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN052189.D

Acq: 6 Nov 2018 13:55

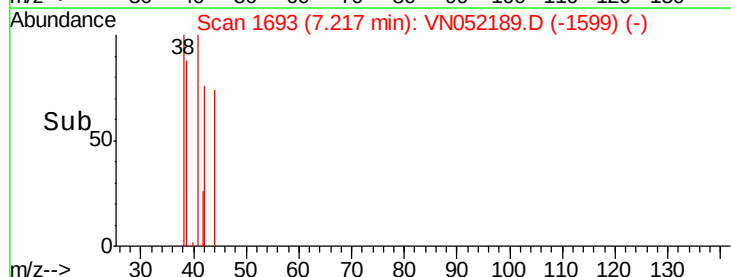
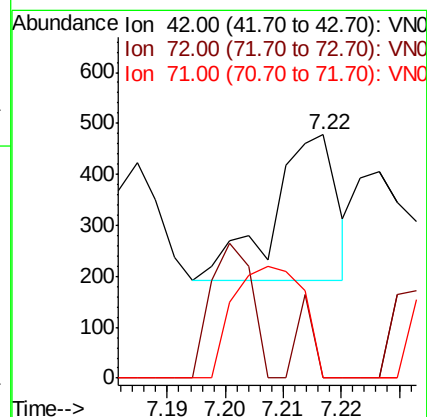
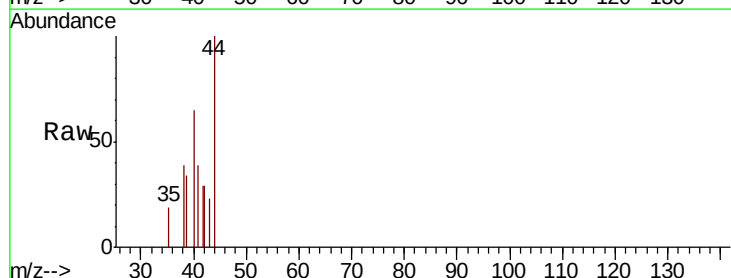
Tgt Ion: 42 Resp: 219

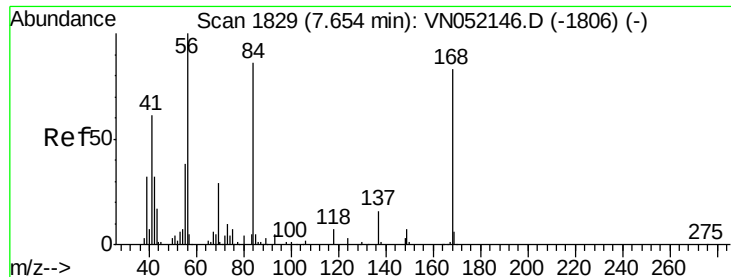
Ion Ratio Lower Upper

42 100

72 14.6 32.5 48.7#

71 84.0 30.6 46.0#

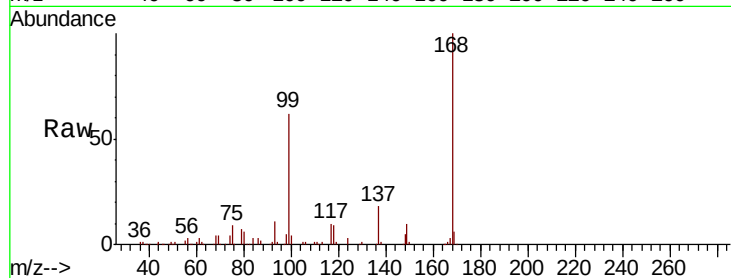




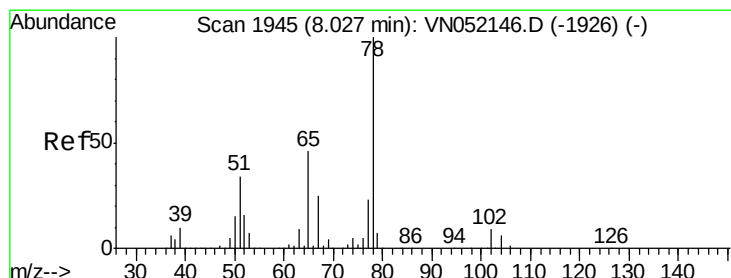
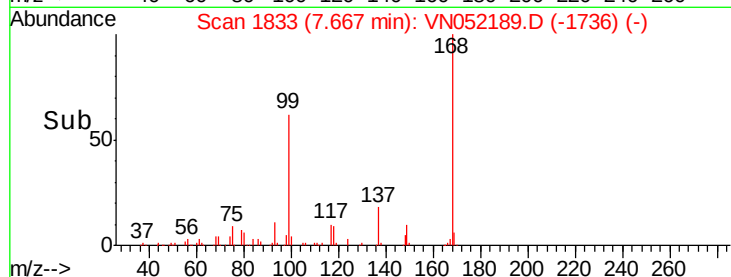
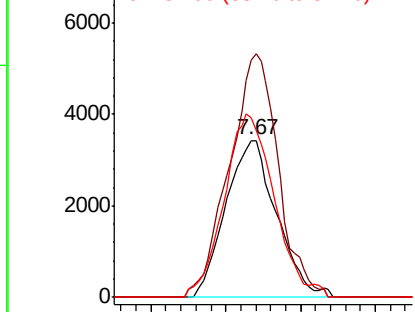
#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052189.D
Acq: 6 Nov 2018 13:55

Instrument :
MSVOA_N
ClientSampleId :
SB-2

Tgt Ion: 56 Resp: 8130
Ion Ratio Lower Upper
56 100
69 151.1 25.8 38.6#
84 114.5 63.5 95.3#

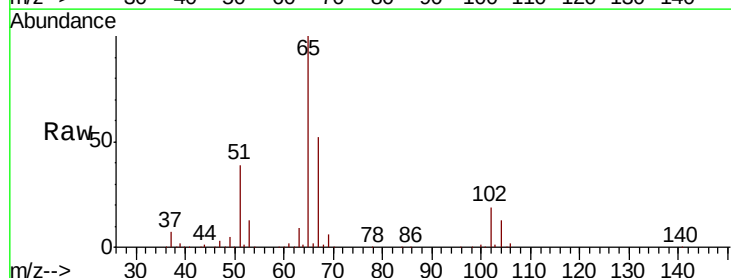


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

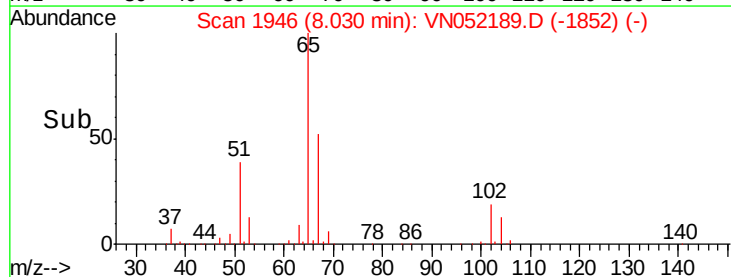
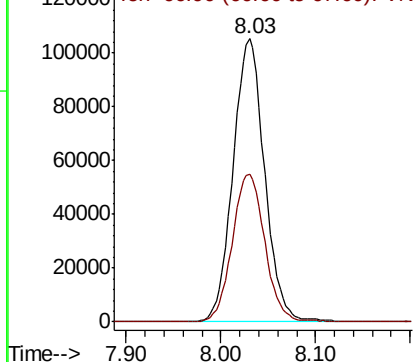


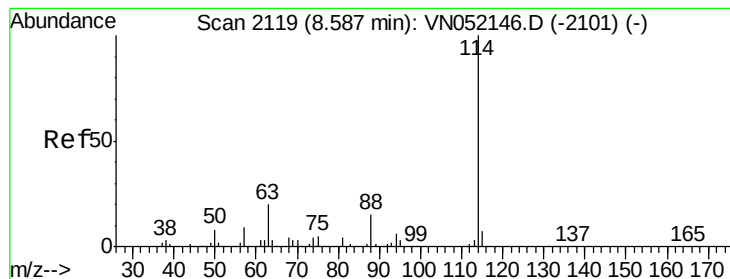
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN052189.D
Acq: 6 Nov 2018 13:55

Tgt Ion: 65 Resp: 244456
Ion Ratio Lower Upper
65 100
67 53.8 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052189.D

Acq: 6 Nov 2018 13:55

Instrument :

MSVOA_N

ClientSampleId :

SB-2

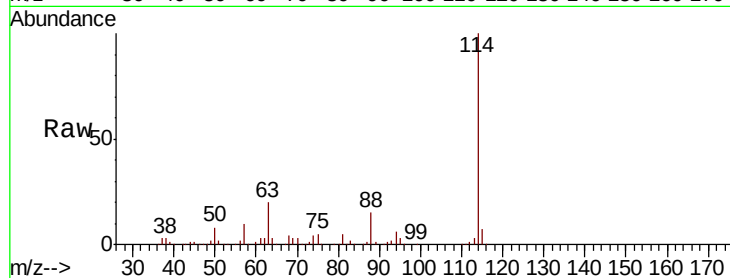
Tgt Ion:114 Resp: 577897

Ion Ratio Lower Upper

114 100

63 20.4 0.0 46.0

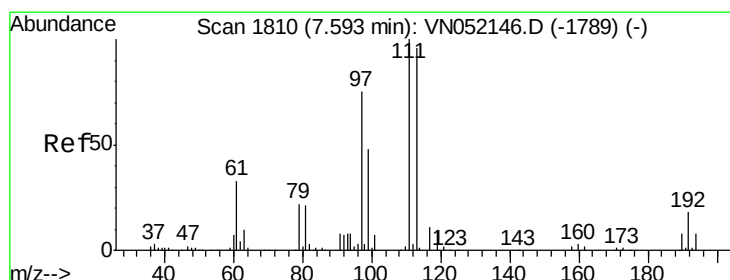
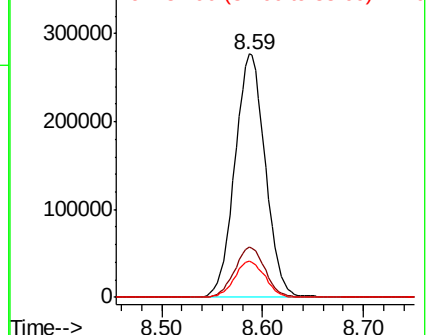
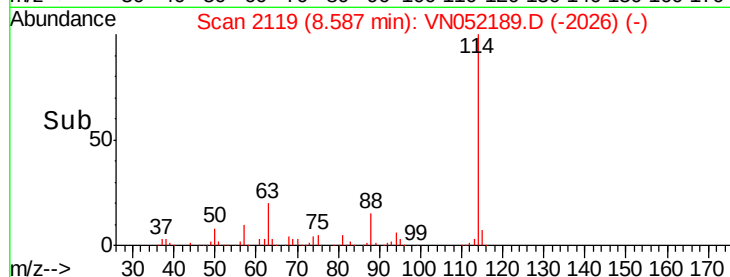
88 14.8 0.0 35.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052189.D

Acq: 6 Nov 2018 13:55

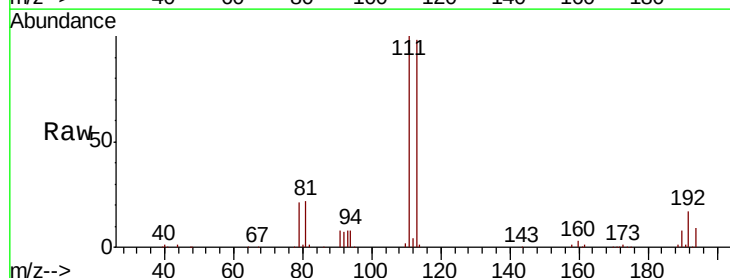
Tgt Ion:113 Resp: 213989

Ion Ratio Lower Upper

113 100

111 103.6 83.1 124.7

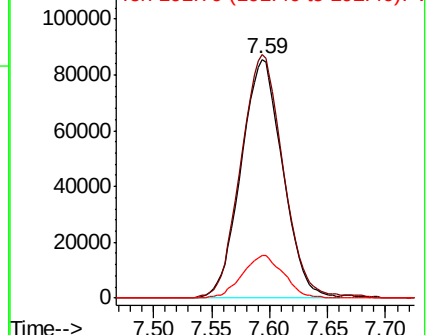
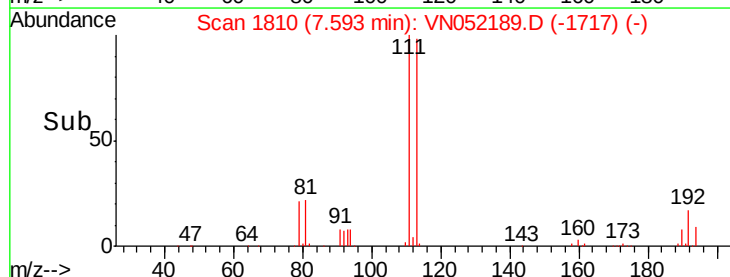
192 17.7 12.7 19.1

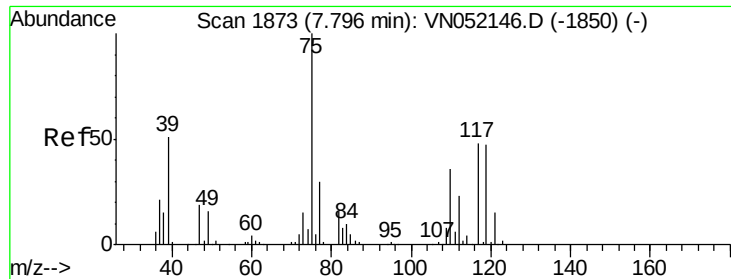


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

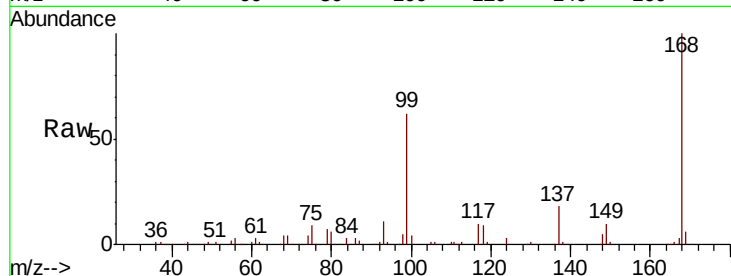




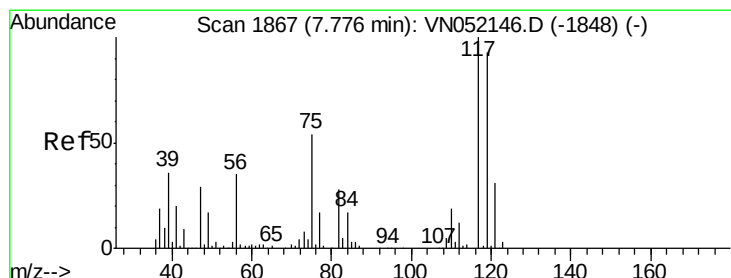
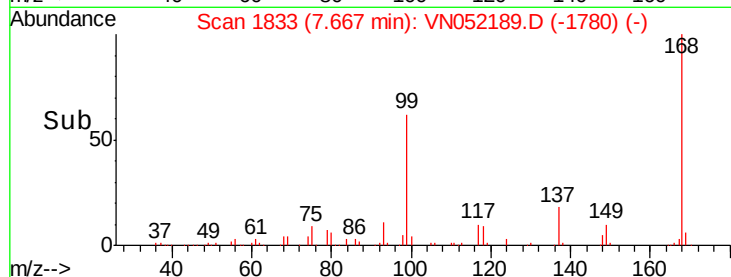
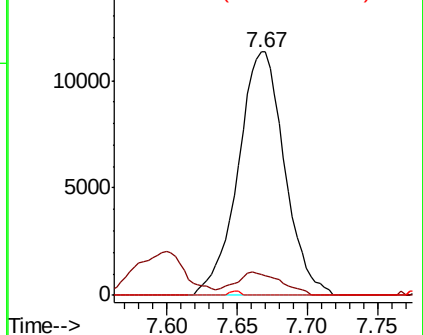
#36
 1,1-Dichloropropene
 Concen: 5.101 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052189.D
 Acq: 6 Nov 2018 13:55

Instrument :
 MSVOA_N
 ClientSampleId :
 SB-2

Tgt Ion: 75 Resp: 26077
 Ion Ratio Lower Upper
 75 100
 110 9.5 16.0 48.0#
 77 0.4 24.5 36.7#

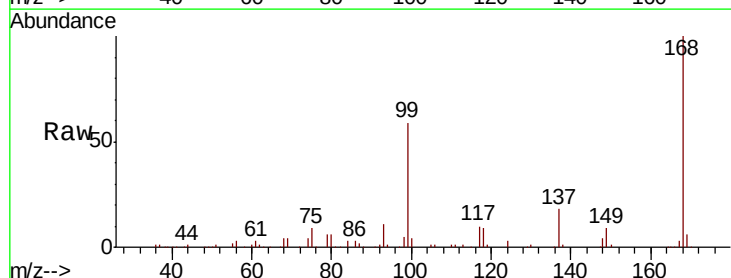


Abundance Ion 74.90 (74.60 to 75.60): VN052189.D (-1780) (-)
 Ion 109.90 (109.60 to 110.60): VN052189.D (-1780) (-)
 Ion 76.90 (76.60 to 77.60): VN052189.D (-1780) (-)

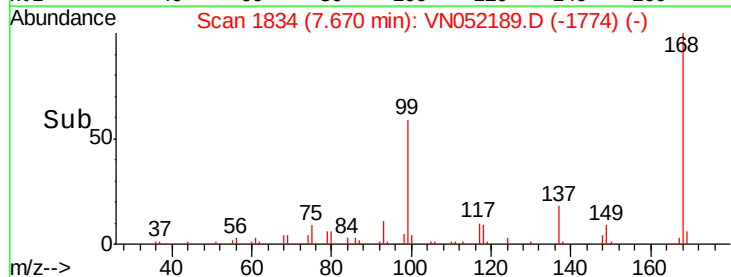
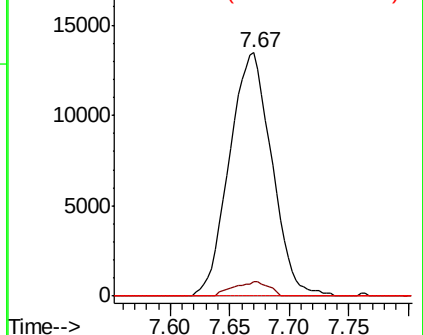


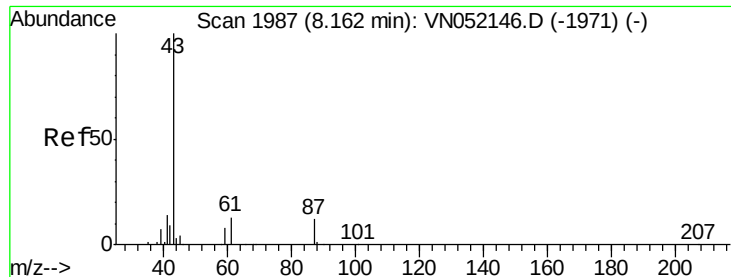
#38
 Carbon Tetrachloride
 Concen: 6.507 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.11 min
 Lab File: VN052189.D
 Acq: 6 Nov 2018 13:55

Tgt Ion: 117 Resp: 33234
 Ion Ratio Lower Upper
 117 100
 119 6.1 74.8 112.2#
 121 0.0 25.1 37.7#



Abundance Ion 116.80 (116.50 to 117.50): VN052189.D (-1774) (-)
 Ion 118.80 (118.50 to 119.50): VN052189.D (-1774) (-)
 Ion 120.80 (120.50 to 121.50): VN052189.D (-1774) (-)





#43

Isopropyl Acetate

Concen: 30.742 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052189.D

Acq: 6 Nov 2018 13:55

Instrument :

MSVOA_N

ClientSampled :

SB-2

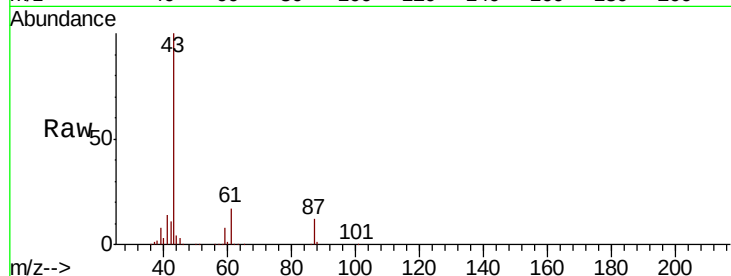
Tgt Ion: 43 Resp: 179321

Ion Ratio Lower Upper

43 100

61 17.8 15.4 23.0

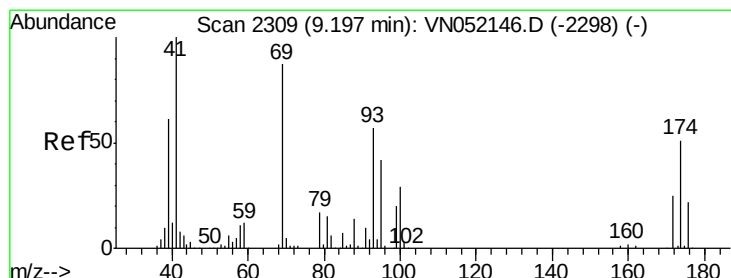
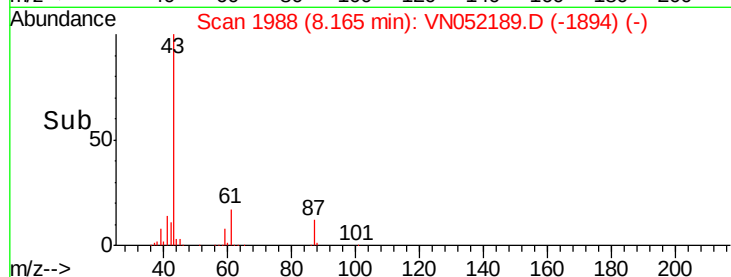
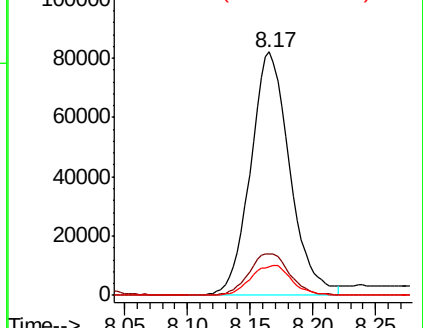
87 12.7 9.8 14.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.615 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN052189.D

Acq: 6 Nov 2018 13:55

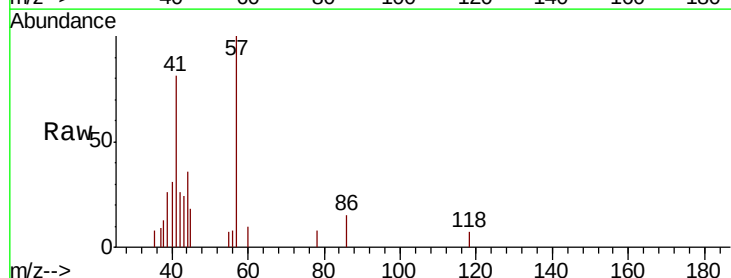
Tgt Ion: 41 Resp: 4535

Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

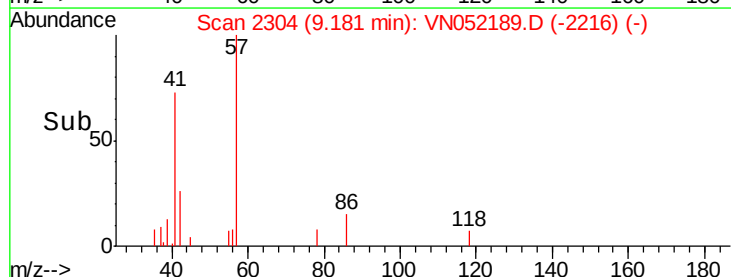
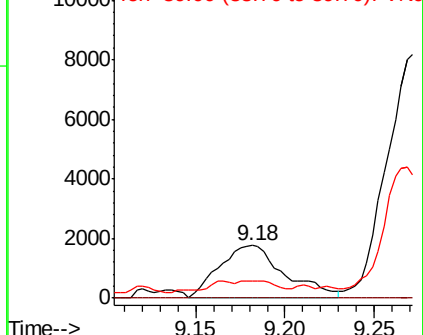
39 8.9 50.5 75.7#

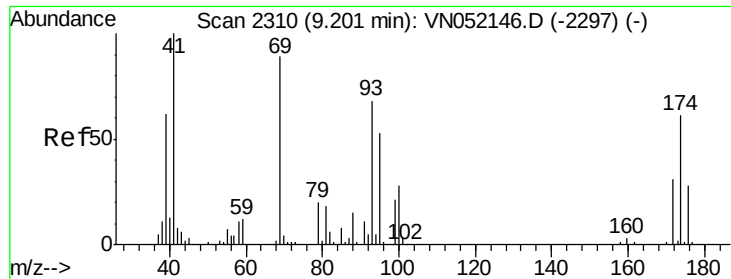


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.29 min Scan# 2337

Delta R.T. 0.09 min

Lab File: VN052189.D

Acq: 6 Nov 2018 13:55

Instrument :

MSVOA_N

ClientSampled :

SB-2

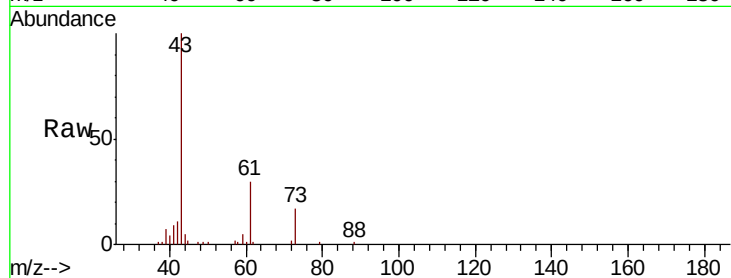
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 229507.8 34.1 51.1#

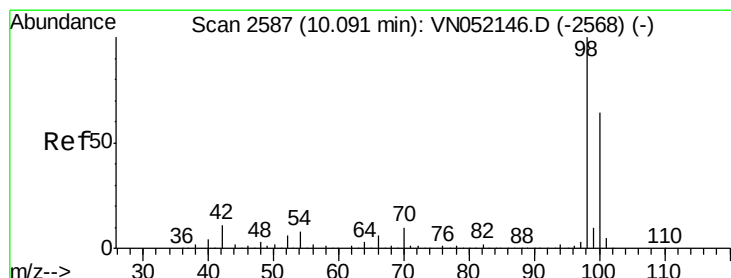
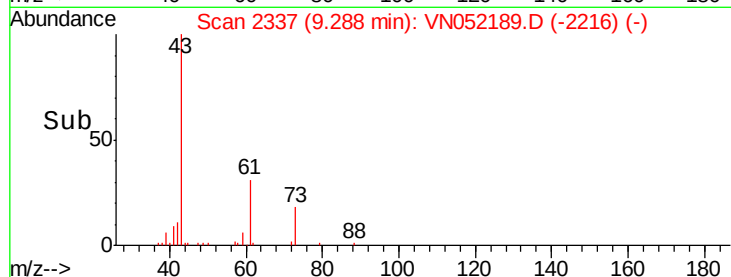
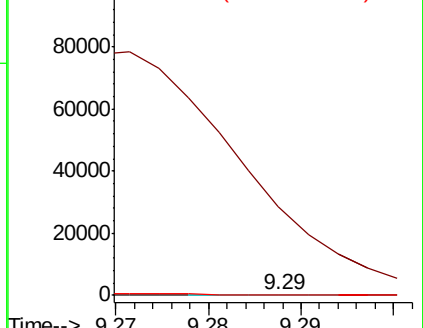
58 1050.0 62.8 94.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052189.D

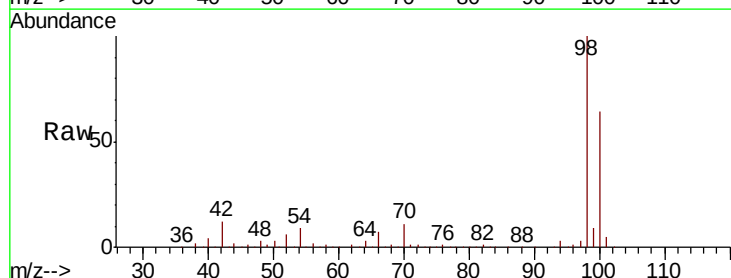
Acq: 6 Nov 2018 13:55

Tgt Ion: 98 Resp: 851725

Ion Ratio Lower Upper

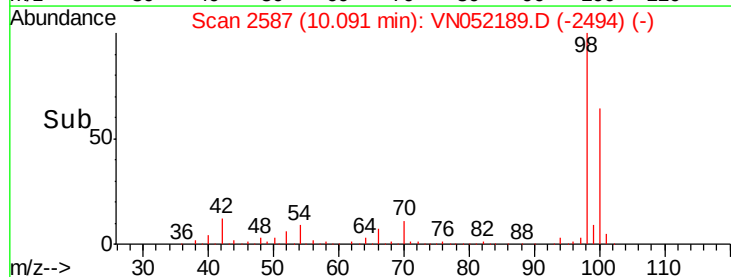
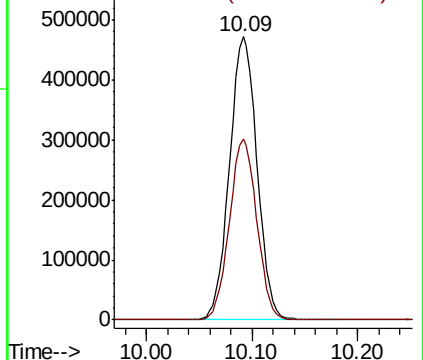
98 100

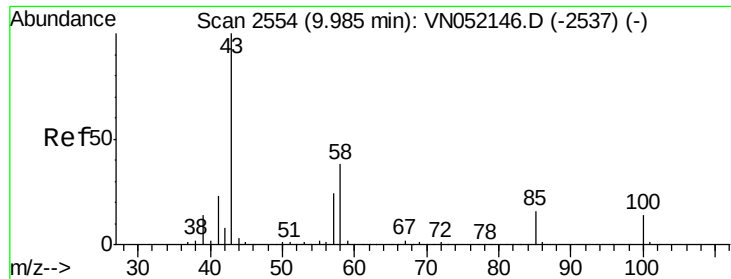
100 63.6 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

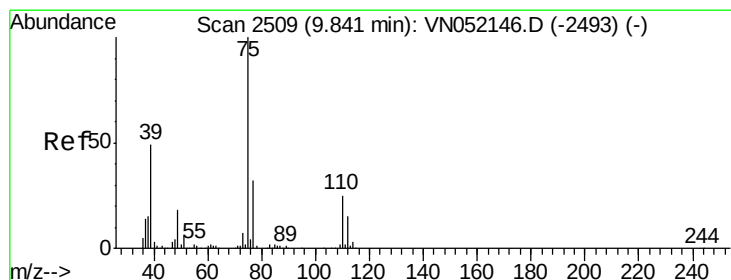
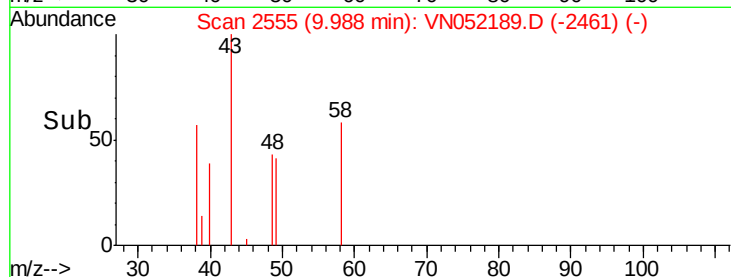
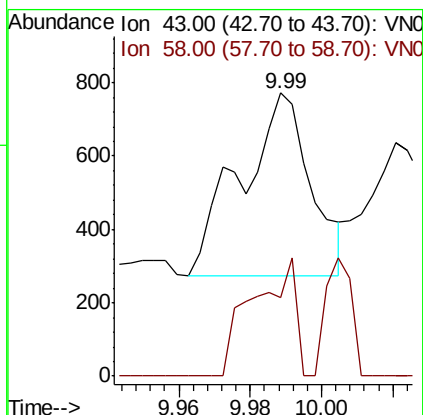
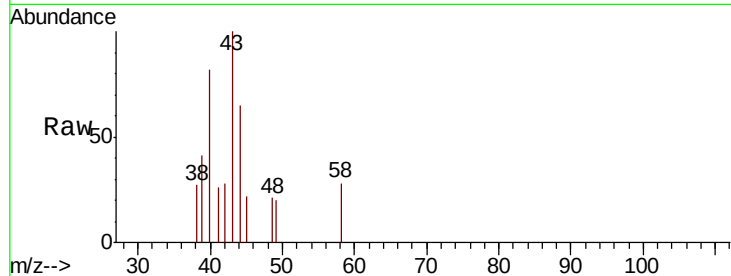




#51
 4-Methyl-2-Pentanone
 Concen: 0.220 ug/l
 RT: 9.99 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN052189.D
 Acq: 6 Nov 2018 13:55

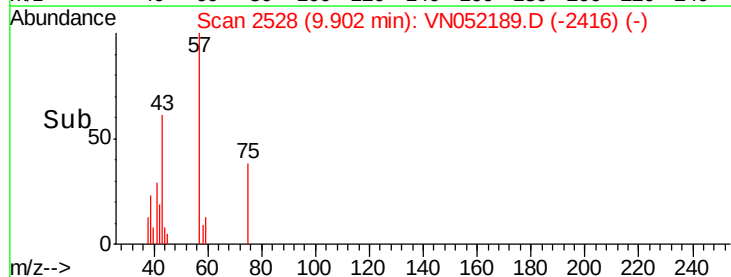
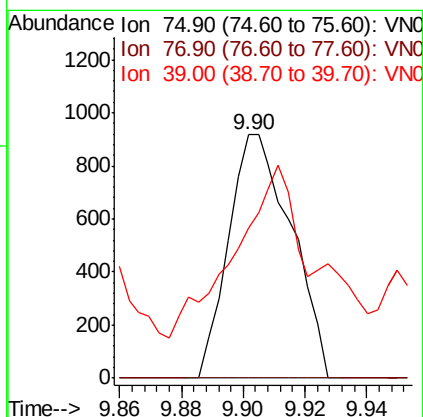
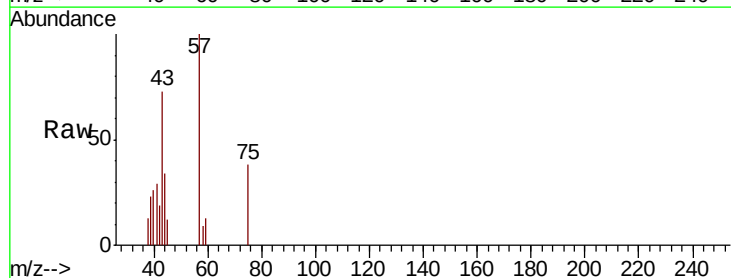
Instrument :
 MSVOA_N
 ClientSampled :
 SB-2

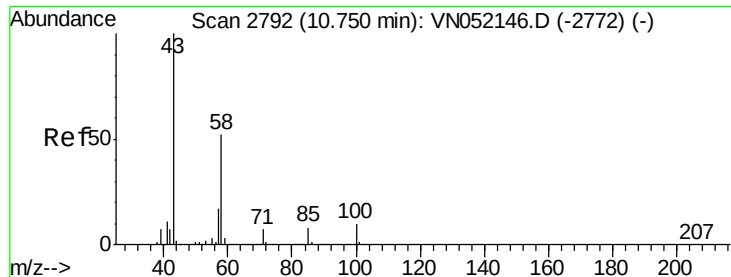
Tgt Ion: 43 Resp: 679
 Ion Ratio Lower Upper
 43 100
 58 39.2 29.7 44.5



#54
 cis-1,3-Dichloropropene
 Concen: 0.229 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.06 min
 Lab File: VN052189.D
 Acq: 6 Nov 2018 13:55

Tgt Ion: 75 Resp: 1296
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.0 37.4#
 39 28.1 42.3 63.5#

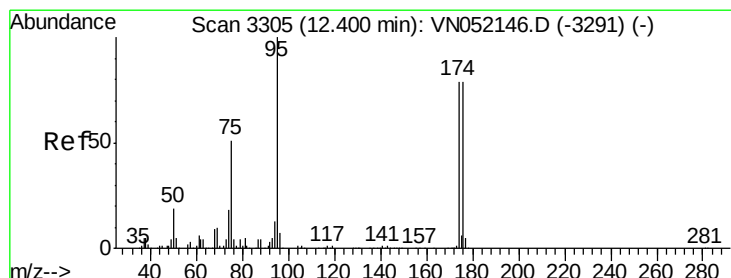
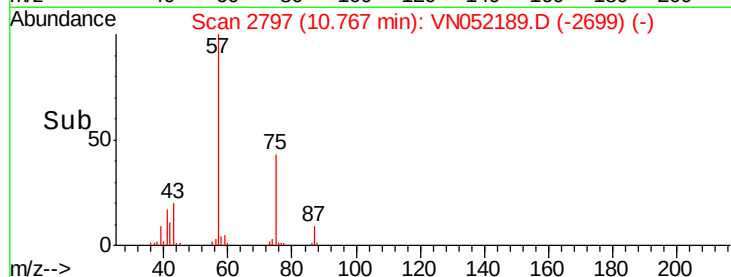
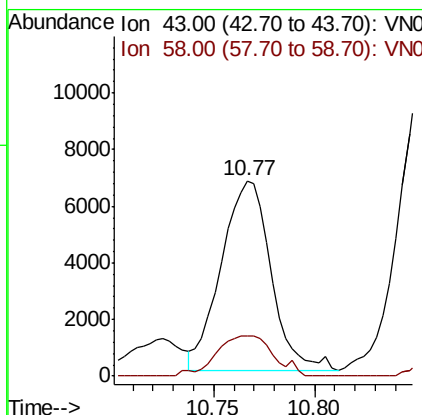
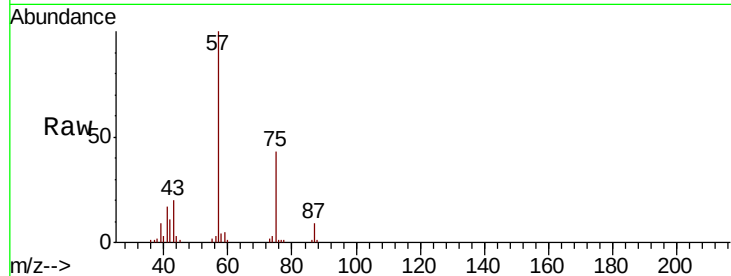




#59
2-Hexanone
Concen: 5.360 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN052189.D
Acq: 6 Nov 2018 13:55

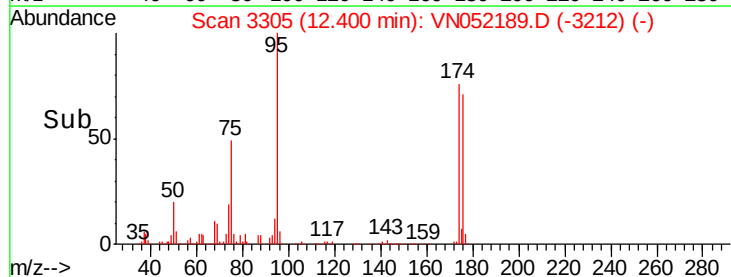
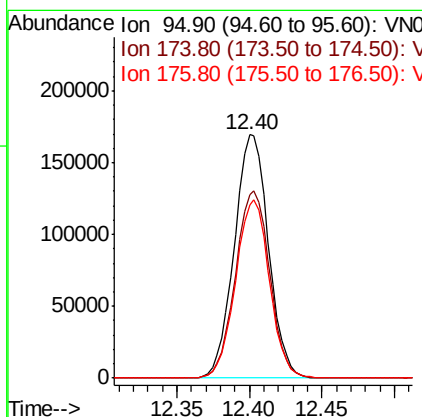
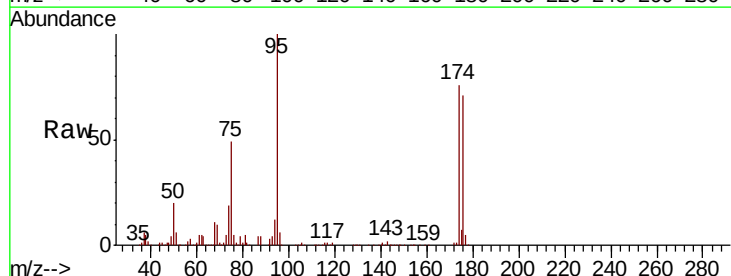
Instrument :
MSVOA_N
ClientSampled :
SB-2

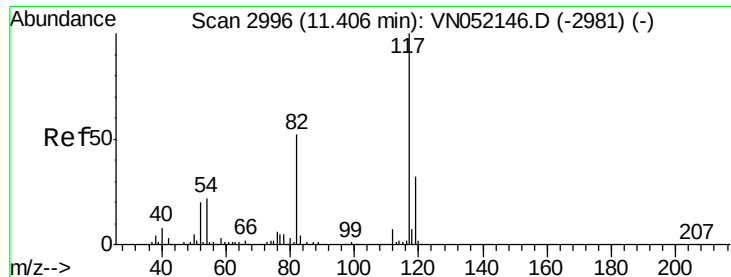
Tgt Ion: 43 Resp: 11498
Ion Ratio Lower Upper
43 100
58 24.6 25.2 75.6#



#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052189.D
Acq: 6 Nov 2018 13:55

Tgt Ion: 95 Resp: 278034
Ion Ratio Lower Upper
95 100
174 77.5 0.0 131.8
176 72.6 0.0 126.0

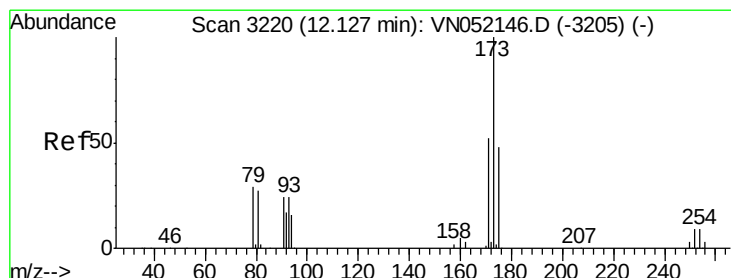
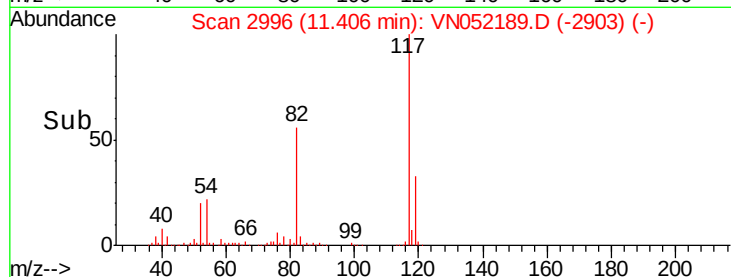
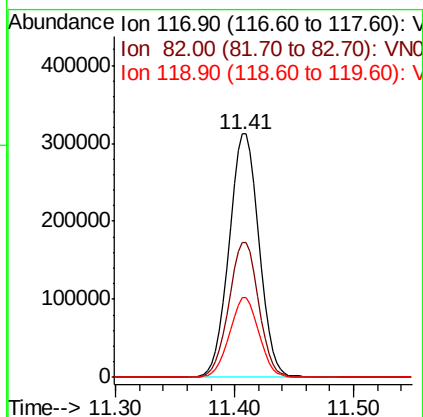
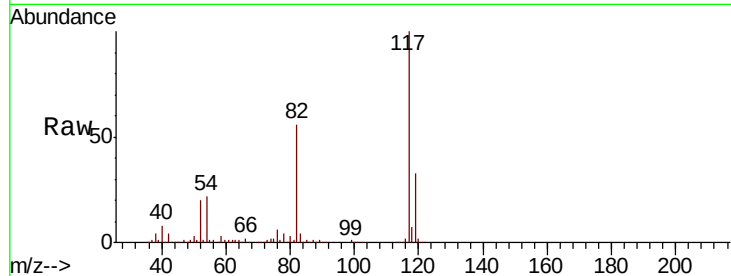




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052189.D
Acq: 6 Nov 2018 13:55

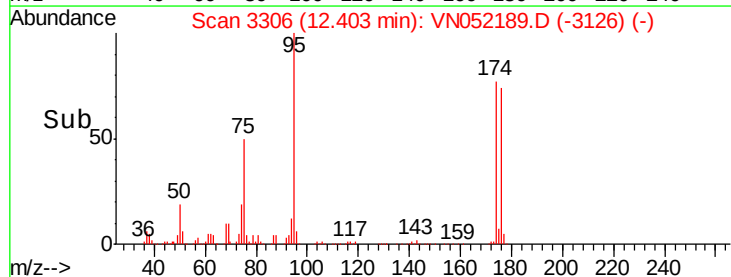
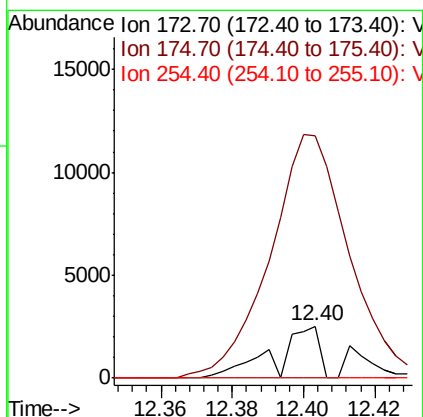
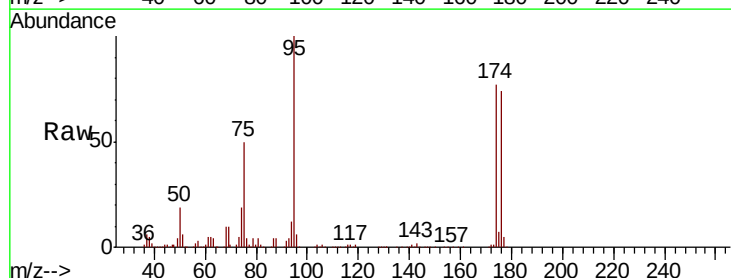
Instrument :
MSVOA_N
ClientSampleId :
SB-2

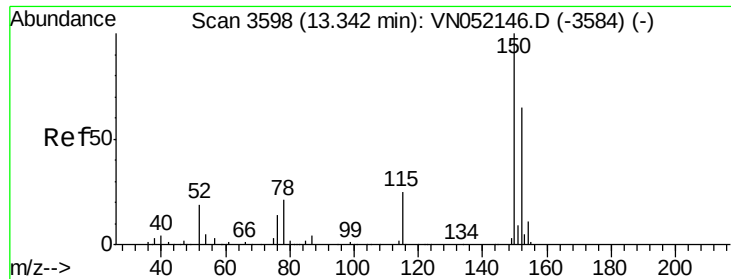
Tgt Ion:117 Resp: 544920
Ion Ratio Lower Upper
117 100
82 55.6 49.9 74.9
119 32.6 25.7 38.5



#71
Bromoform
Concen: 3.607 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052189.D
Acq: 6 Nov 2018 13:55

Tgt Ion:173 Resp: 2139
Ion Ratio Lower Upper
173 100
175 744.1 23.9 71.7#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052189.D

Acq: 6 Nov 2018 13:55

Instrument :

MSVOA_N

ClientSampled :

SB-2

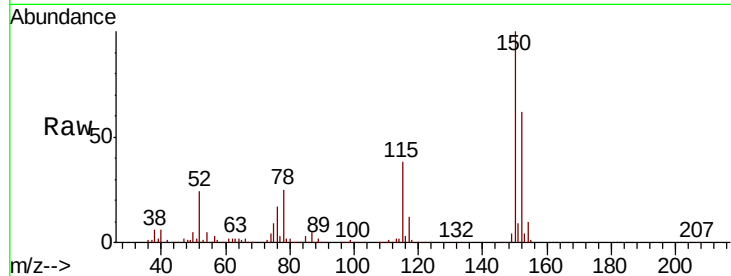
Tgt Ion:152 Resp: 208499

Ion Ratio Lower Upper

152 100

115 60.7 31.6 95.0

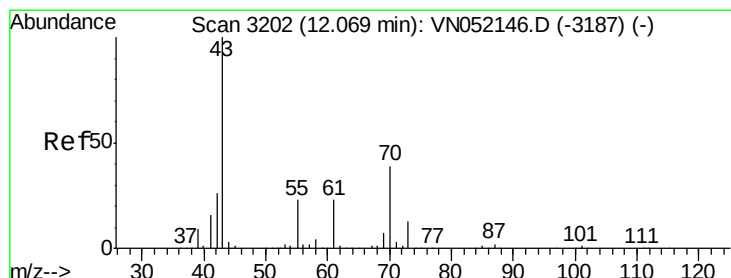
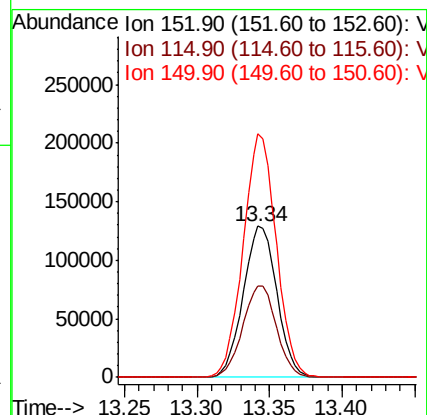
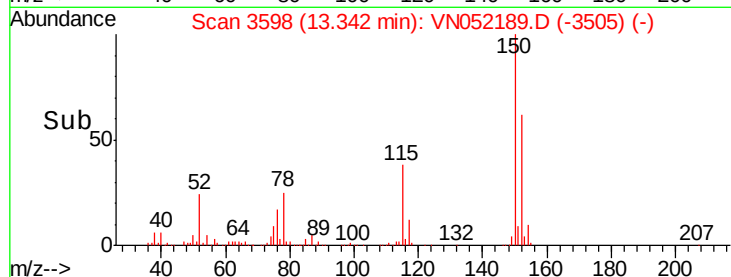
150 158.0 0.0 345.0



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



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.09 min Scan# 3208

Delta R.T. 0.02 min

Lab File: VN052189.D

Acq: 6 Nov 2018 13:55

Tgt Ion: 43 Resp: 167

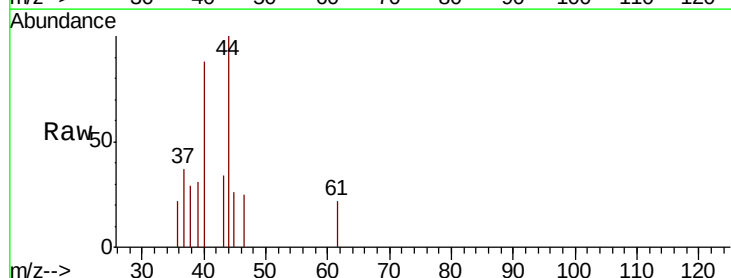
Ion Ratio Lower Upper

43 100

70 0.0 31.9 47.9#

55 0.0 18.4 27.6#

61 36.5 18.2 27.4#

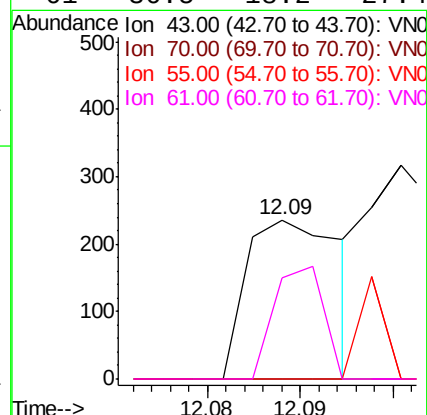
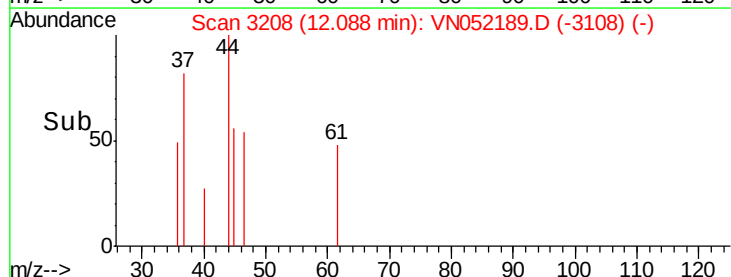


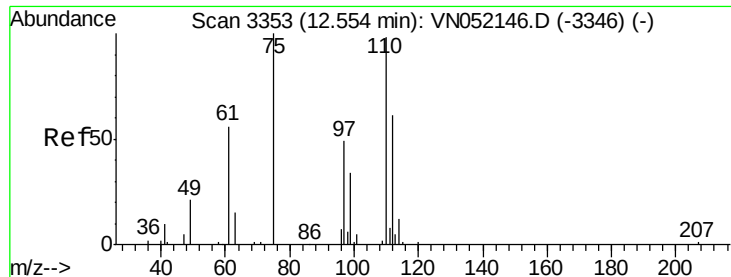
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 51.120 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052189.D

Acq: 6 Nov 2018 13:55

Instrument :

MSVOA_N

ClientSampled :

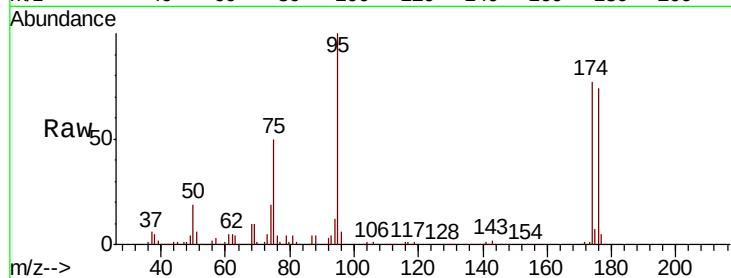
SB-2

Tgt Ion: 75 Resp: 140879

Ion Ratio Lower Upper

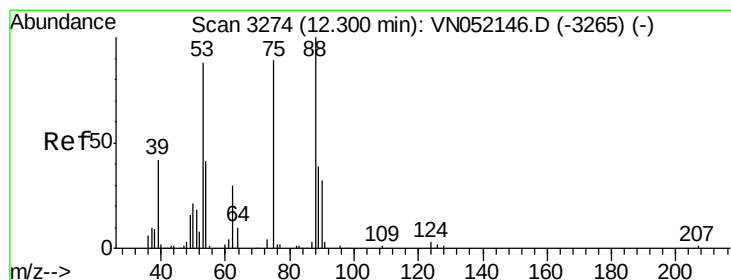
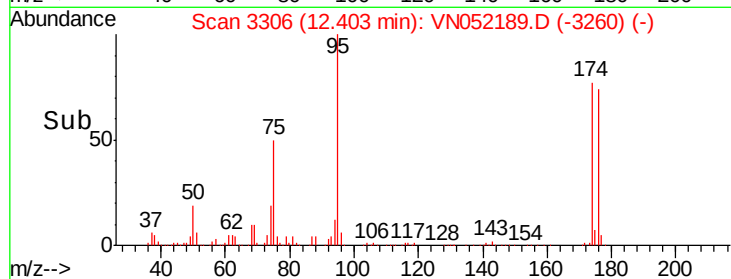
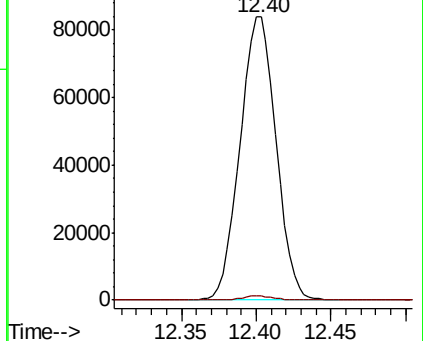
75 100

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: 153.736 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052189.D

Acq: 6 Nov 2018 13:55

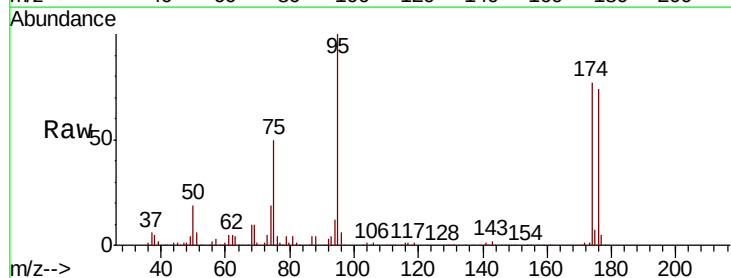
Tgt Ion: 75 Resp: 140879

Ion Ratio Lower Upper

75 100

53 0.1 81.8 122.6#

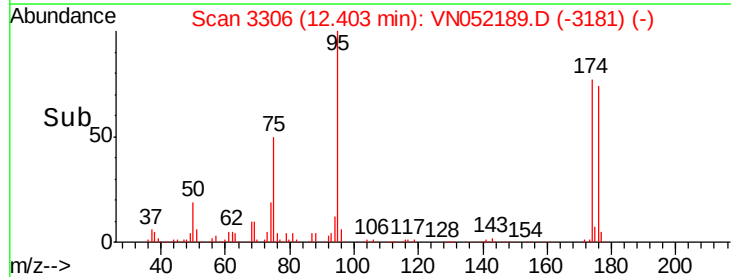
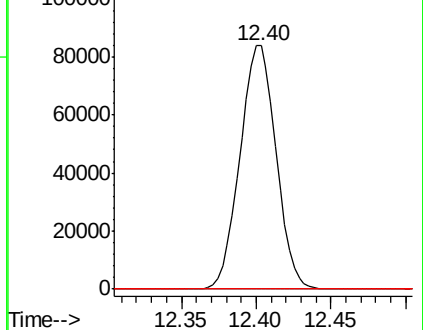
89 0.0 36.6 54.8#

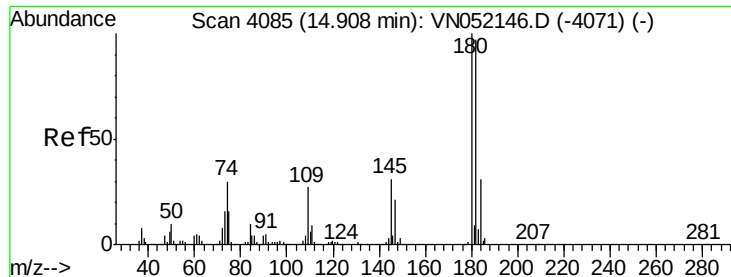


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

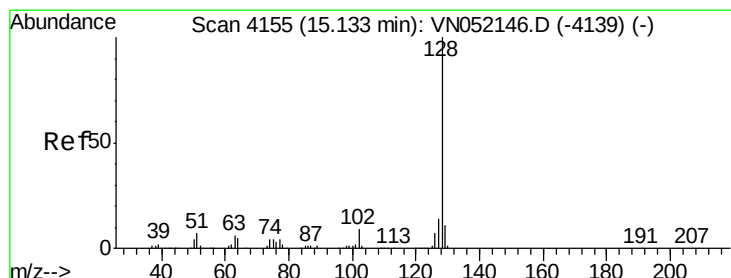
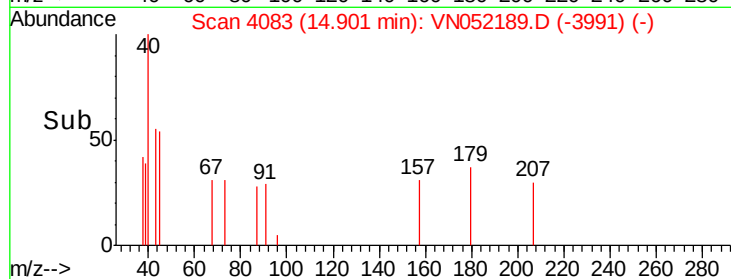
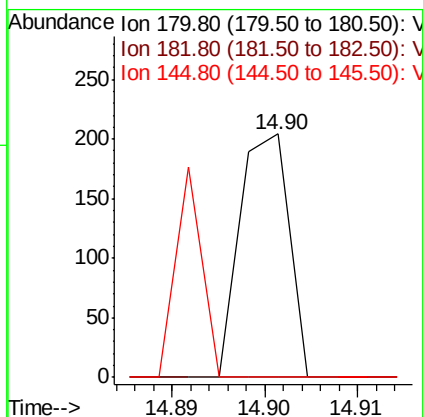
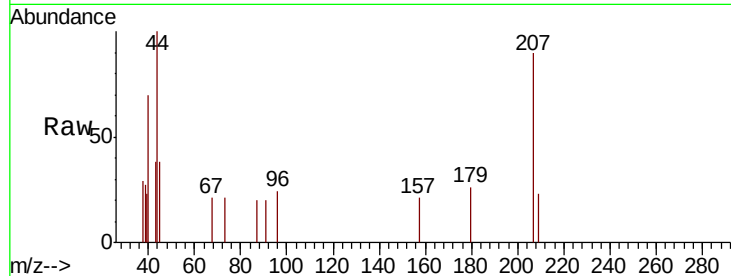




#93
 1,2,4-Trichlorobenzene
 Concen: 2.261 ug/l
 RT: 14.90 min Scan# 4083
 Delta R.T. -0.01 min
 Lab File: VN052189.D
 Acq: 6 Nov 2018 13:55

Instrument :
 MSVOA_N
 ClientSampled :
 SB-2

Tgt Ion:180 Resp: 76
 Ion Ratio Lower Upper
 180 100
 182 0.0 49.1 147.4#
 145 44.7 16.4 49.2



#95
 Naphthalene
 Concen: 2.222 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN052189.D
 Acq: 6 Nov 2018 13:55

Tgt Ion:128 Resp: 14187
 Ion Ratio Lower Upper
 128 100
 127 12.5 10.5 15.7
 129 12.3 8.6 12.8

