

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111318\
 Data File : VN052286.D
 Acq On : 13 Nov 2018 15:03
 Operator : MD\SY
 Sample : PB114744TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 14 00:08:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

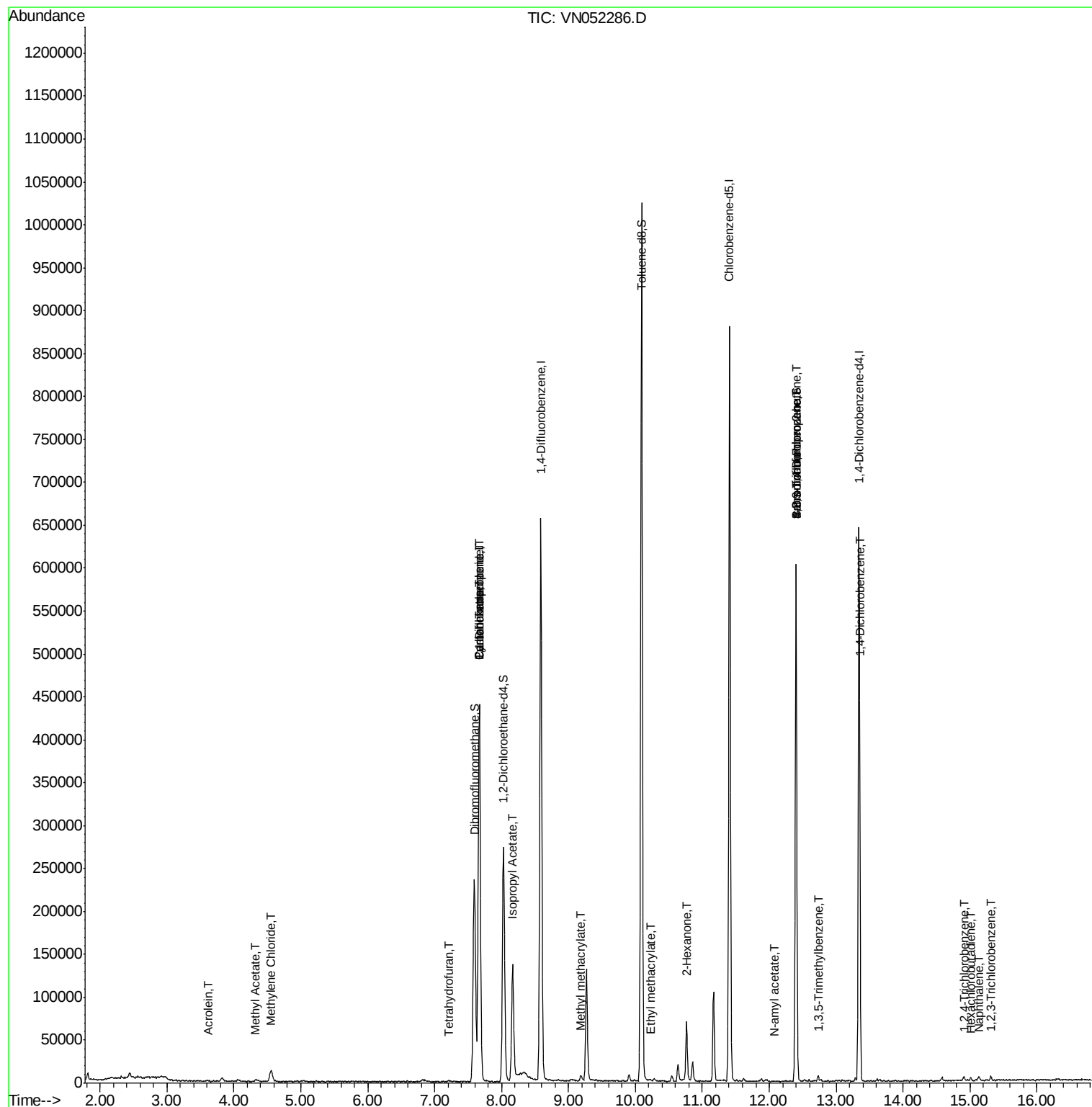
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	329195	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	553431	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	462173	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	157200	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	219482	48.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.50%	
35) Dibromofluoromethane	7.59	113	178021	49.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.32%	
50) Toluene-d8	10.09	98	684735	48.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.60%	
62) 4-Bromofluorobenzene	12.40	95	190280	41.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.88%	
Target Compounds						
					Qvalue	
13) Acrolein	3.61	56	225	34.642	ug/l #	12
16) Acetone	3.83	43	6933	Below Cal		96
18) Methyl Acetate	4.32	43	3042	0.809	ug/l #	77
20) Methylene Chloride	4.56	84	8549	2.083	ug/l	89
29) Tetrahydrofuran	7.21	42	662	0.530	ug/l #	48
31) Cyclohexane	7.67	56	10216	0.786	ug/l #	28
36) 1,1-Dichloropropene	7.67	75	29471	5.276	ug/l #	52
38) Carbon Tetrachloride	7.67	117	35610	7.034	ug/l #	16
43) Isopropyl Acetate	8.17	43	169831	23.190	ug/l	99
48) Methyl methacrylate	9.18	41	4315	1.118	ug/l #	19
56) Ethyl methacrylate	10.23	69	1145	0.243	ug/l #	32
59) 2-Hexanone	10.76	43	11932	4.203	ug/l #	57
71) Bromoform	12.39	173	615	0.311	ug/l #	1
74) N-amyl acetate	12.08	43	941	0.202	ug/l #	57
76) 1,2,3-Trichloropropane	12.40	75	107047	38.488	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3065	0.300	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	107047	131.378	ug/l #	8
88) 1,4-Dichlorobenzene	13.36	146	1163	0.222	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	1391	0.688	ug/l	97
94) Hexachlorobutadiene	15.00	225	576	0.525	ug/l	94
95) Naphthalene	15.13	128	4003	0.804	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.31	180	1634	0.855	ug/l	88

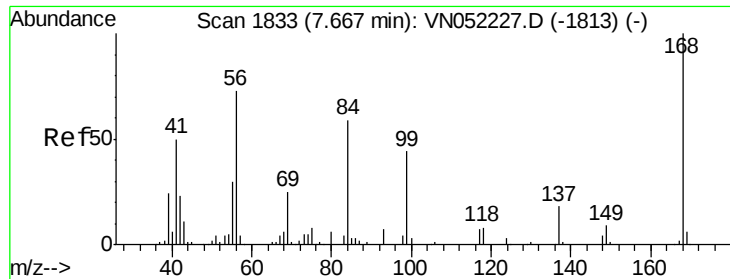
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Nov 12 00:34:27 2018
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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: VN052286.D

Acq: 13 Nov 2018 15:03

Instrument :

MSVOA_N

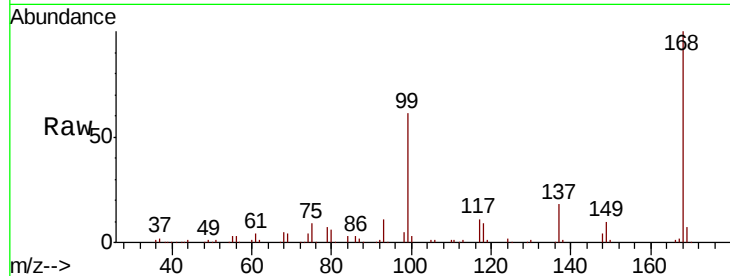
ClientSampled :

Tot Ion:168 Resp: 329195

Ion Ratio Lower Upper

168 100

99 61.1 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

150000

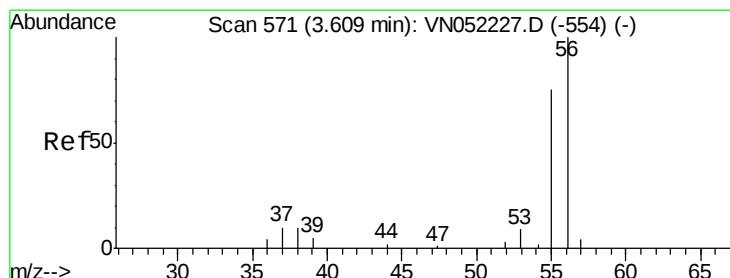
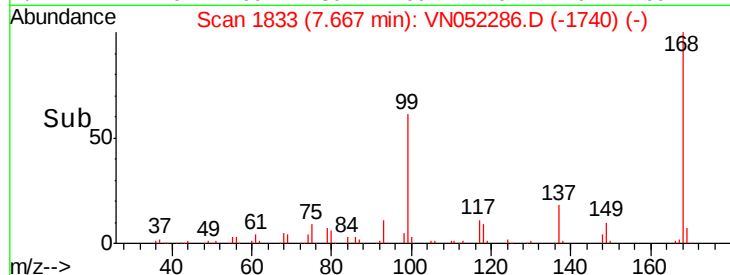
100000

50000

0

7.60 7.70 7.80

Time-->



#13

Acrolein

Concen: 34.642 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052286.D

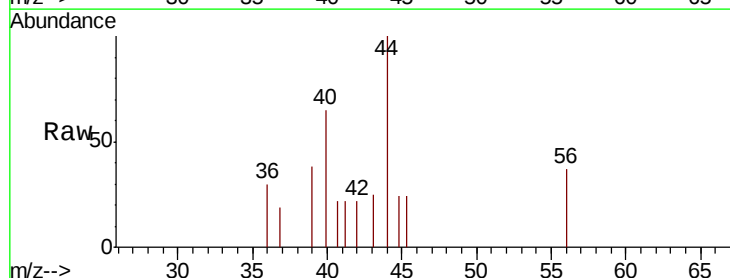
Acq: 13 Nov 2018 15:03

Tgt Ion: 56 Resp: 225

Ion Ratio Lower Upper

56 100

55 0.0 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.61

300

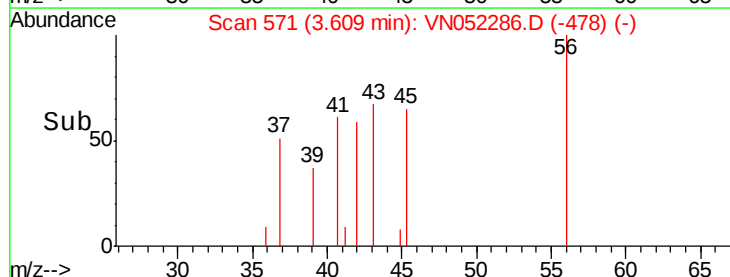
200

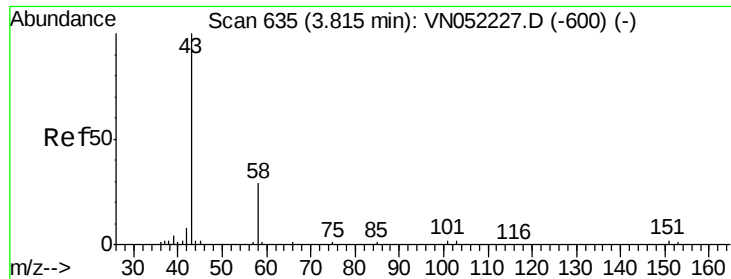
100

0

3.60 3.61 3.62

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN052286.D

Acq: 13 Nov 2018 15:03

Instrument :

MSVOA_N

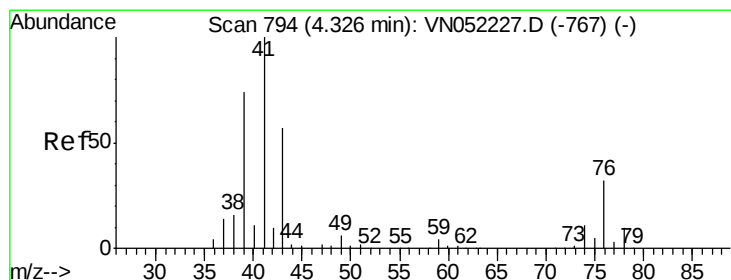
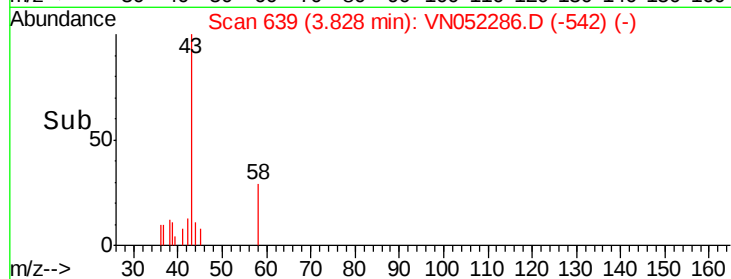
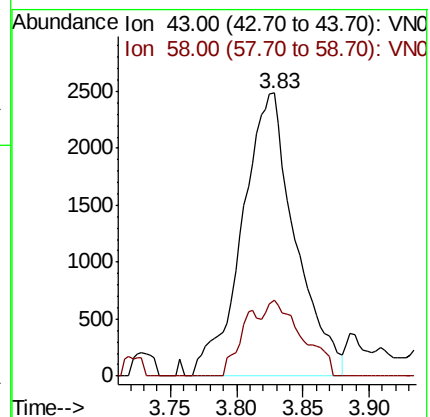
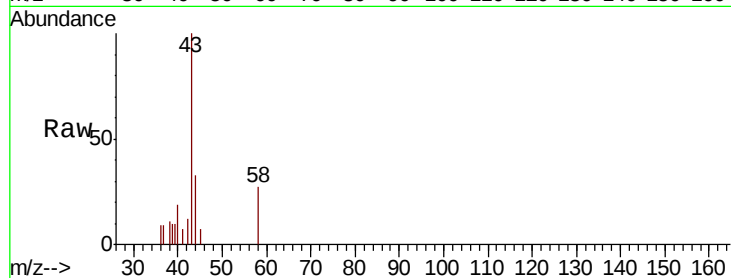
ClientSampled :

Tot Ion: 43 Resp: 6933

Ion Ratio Lower Upper

43 100

58 26.9 23.0 34.6



#18

Methyl Acetate

Concen: 0.809 ug/l

RT: 4.32 min Scan# 792

Delta R.T. -0.01 min

Lab File: VN052286.D

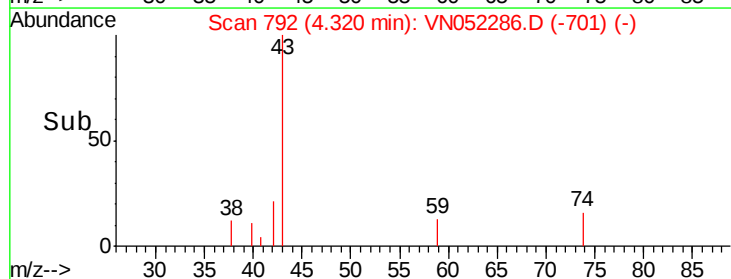
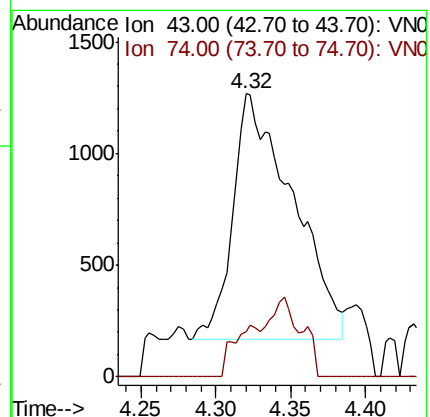
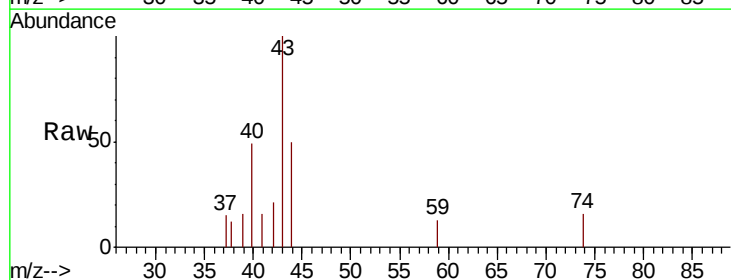
Acq: 13 Nov 2018 15:03

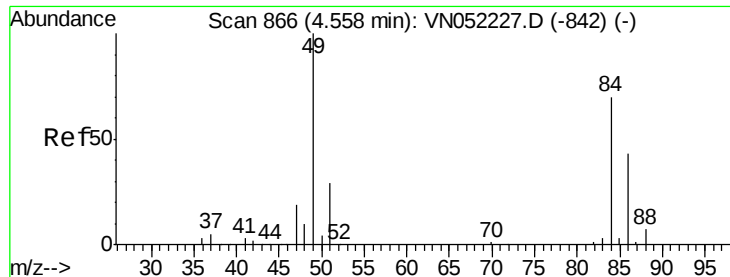
Tgt Ion: 43 Resp: 3042

Ion Ratio Lower Upper

43 100

74 9.6 16.2 24.2#

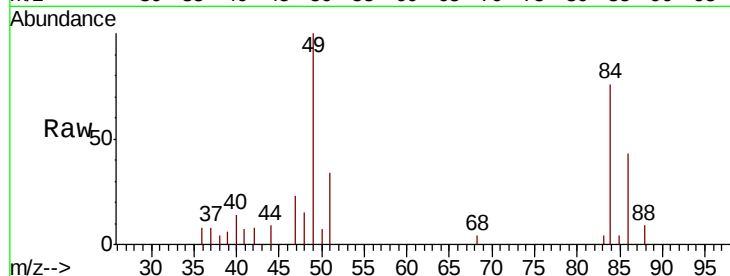




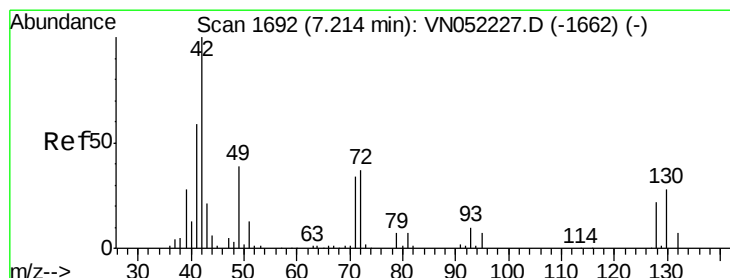
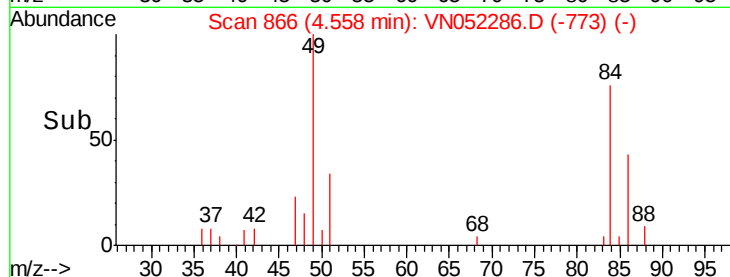
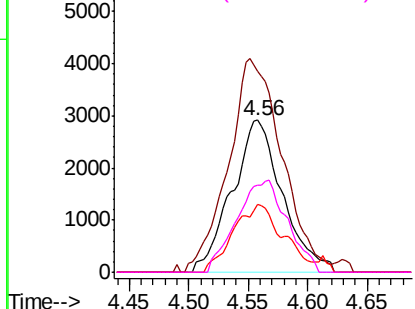
#20
Methvlene Chloride
Concen: 2.083 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052286.D
Acq: 13 Nov 2018 15:03

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 8549
Ion Ratio Lower Upper
84 100
49 126.4 114.8 172.2
51 44.5 33.1 49.7
86 57.1 49.7 74.5

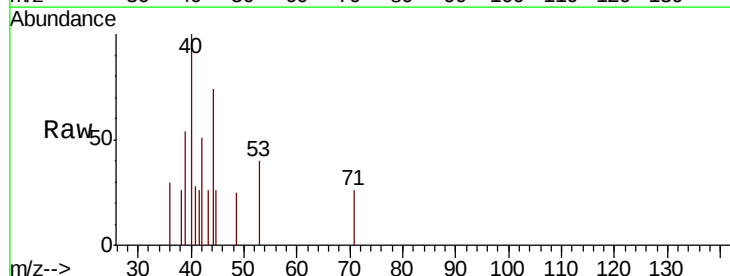


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

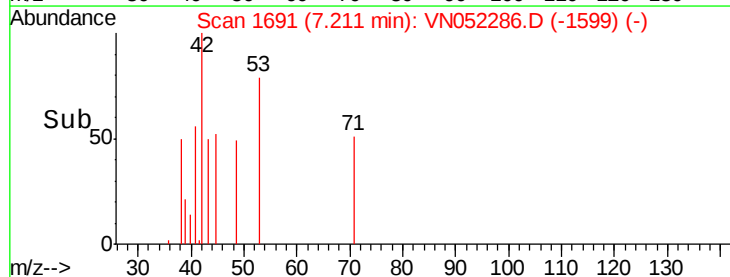
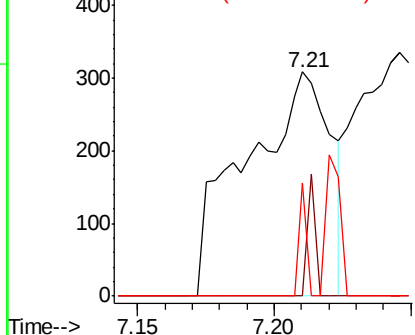


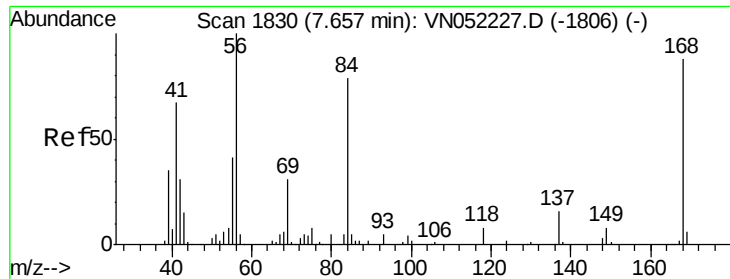
#29
Tetrahydrofuran
Concen: 0.530 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN052286.D
Acq: 13 Nov 2018 15:03

Tgt Ion: 42 Resp: 662
Ion Ratio Lower Upper
42 100
72 4.8 28.6 43.0#
71 4.5 27.1 40.7#



Abundance Ion 42.00 (41.70 to 42.70): VNC
Ion 72.00 (71.70 to 72.70): VNC
Ion 71.00 (70.70 to 71.70): VNC

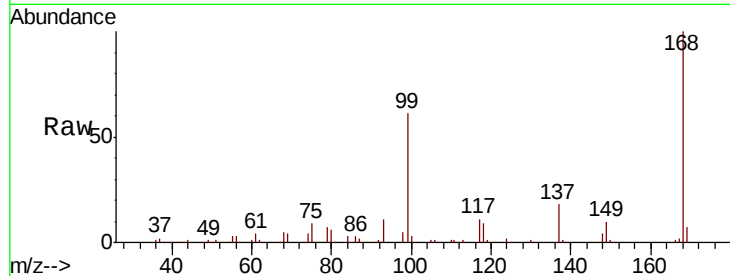




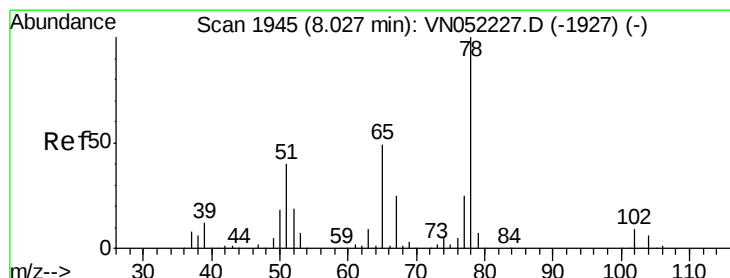
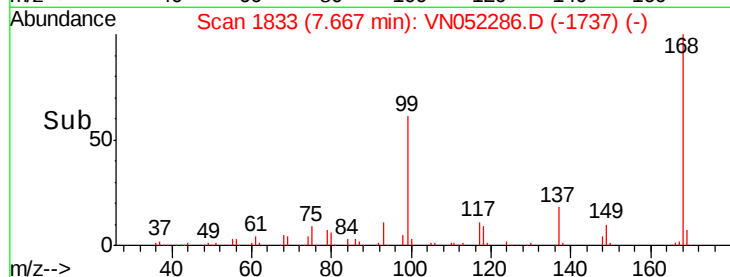
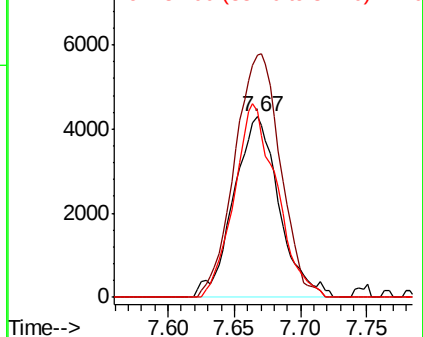
#31
Cyclohexane
Concen: 0.786 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052286.D
Acq: 13 Nov 2018 15:03

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 10216
Ion Ratio Lower Upper
56 100
69 134.3 24.8 37.2#
84 102.7 63.1 94.7#

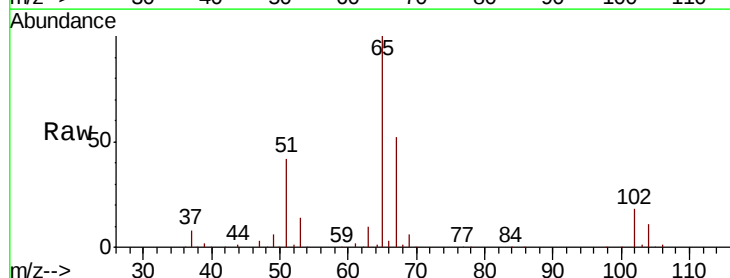


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

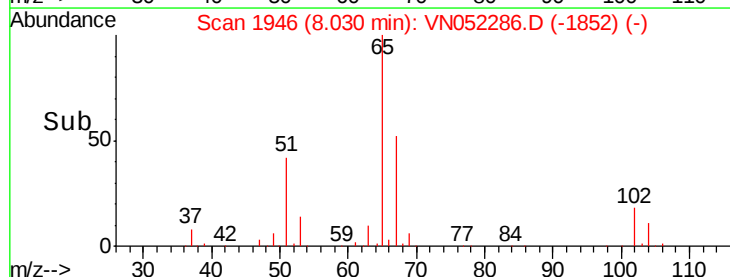
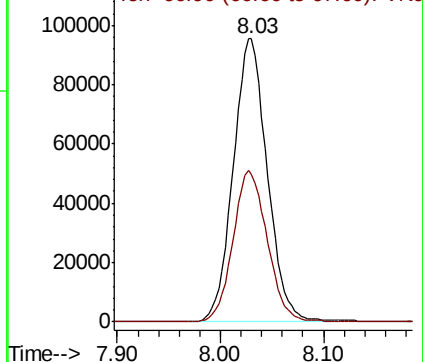


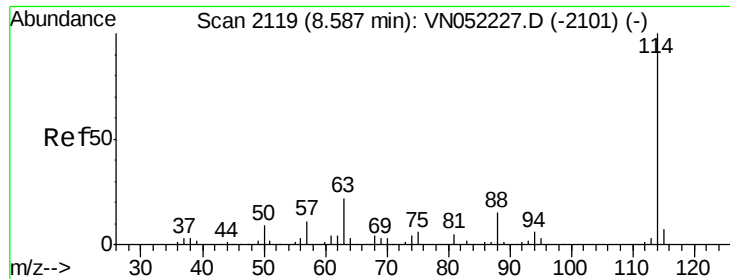
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN052286.D
Acq: 13 Nov 2018 15:03

Tgt Ion: 65 Resp: 219482
Ion Ratio Lower Upper
65 100
67 53.7 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

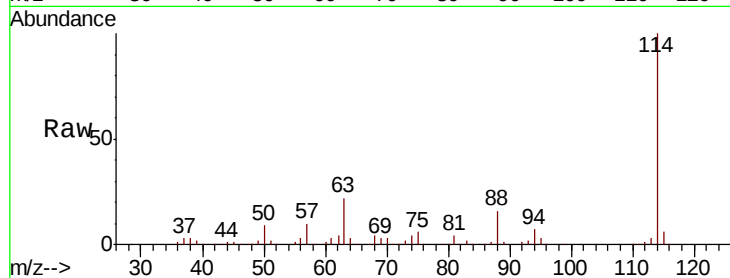




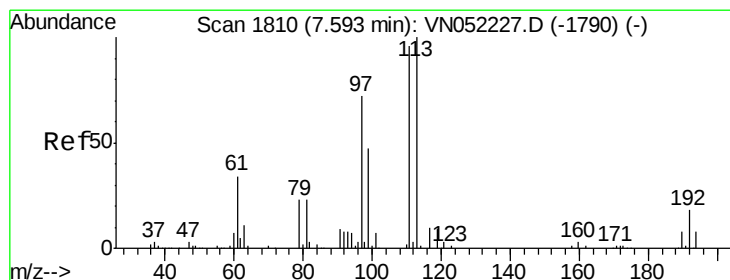
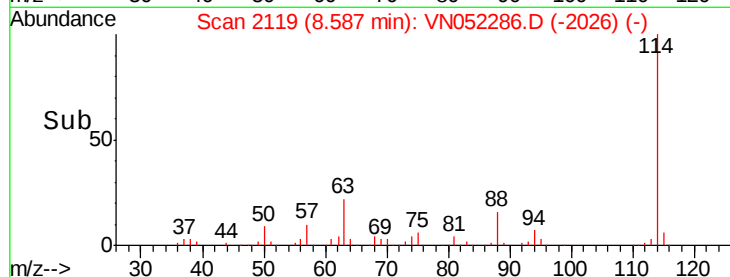
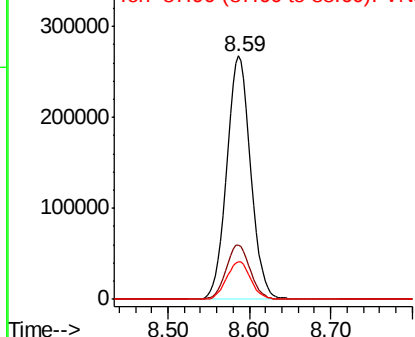
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN052286.D
Acq: 13 Nov 2018 15:03

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 553431
Ion Ratio Lower Upper
114 100
63 22.4 0.0 43.4
88 15.6 0.0 30.2

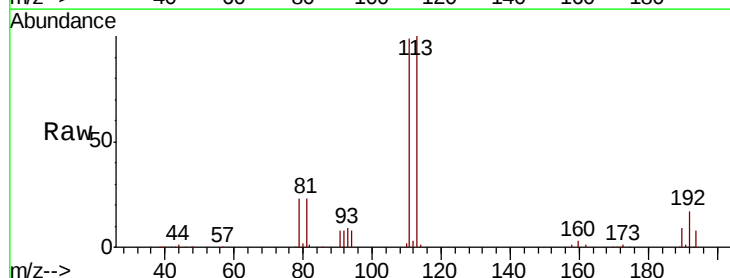


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

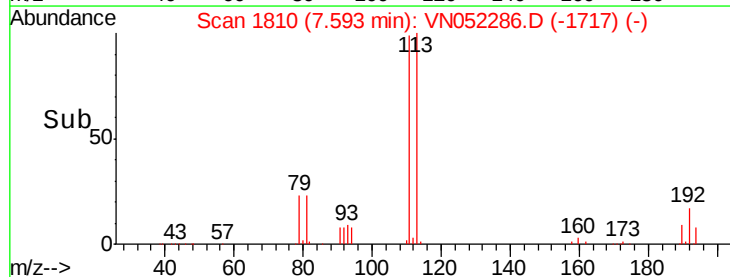
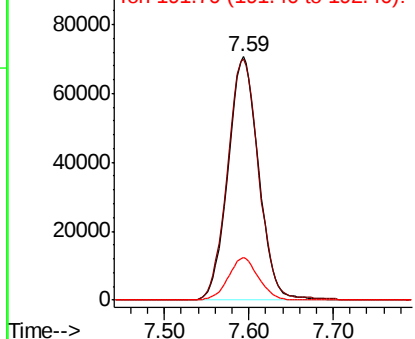


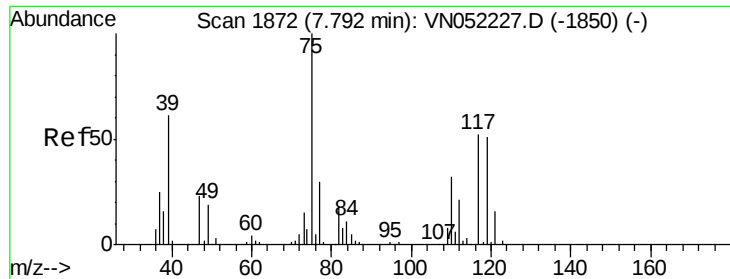
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN052286.D
Acq: 13 Nov 2018 15:03

Tgt Ion:113 Resp: 178021
Ion Ratio Lower Upper
113 100
111 101.6 80.2 120.4
192 17.2 14.1 21.1



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

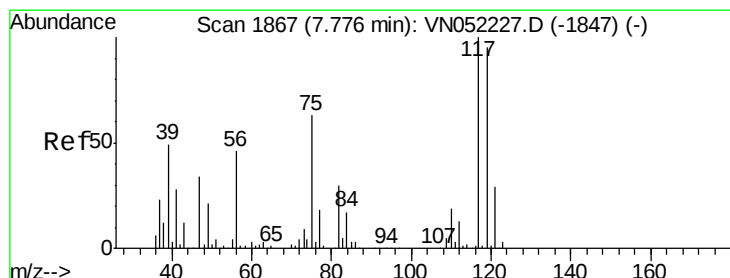
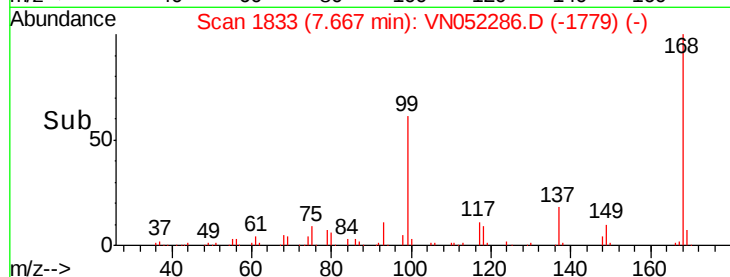
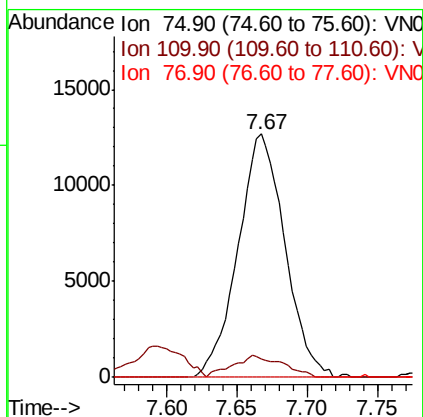
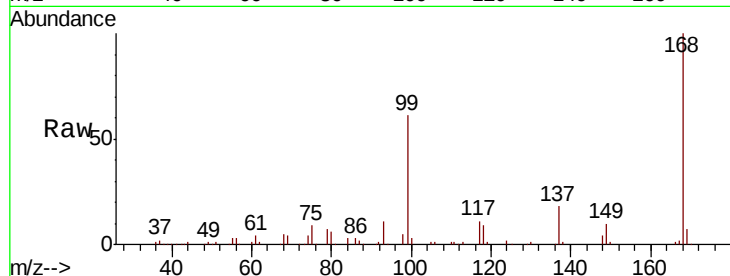




#36
 1,1-Dichloropropene
 Concen: 5.276 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052286.D
 Acq: 13 Nov 2018 15:03

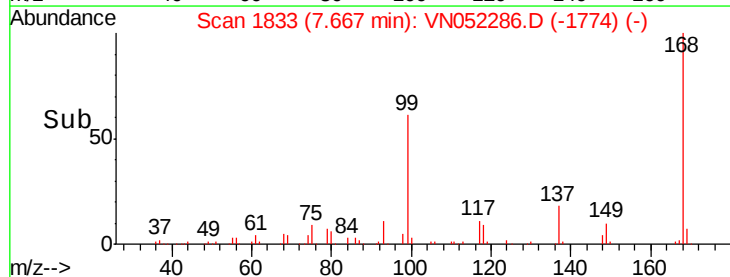
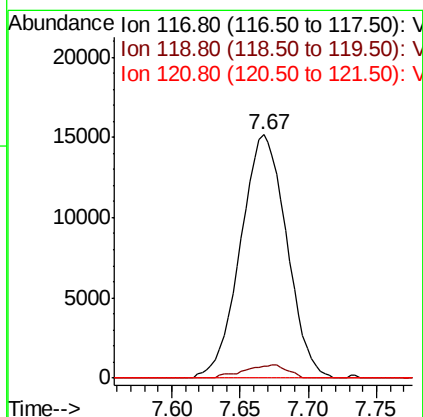
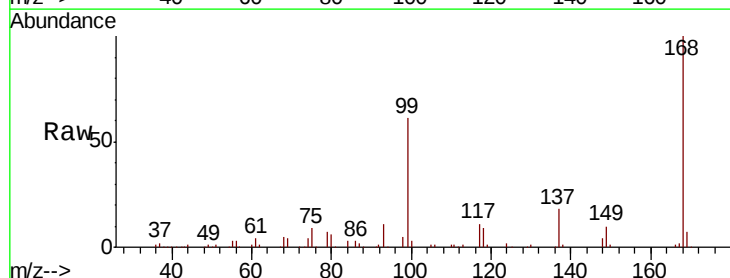
Instrument :
 MSVOA_N
 ClientSampleId :

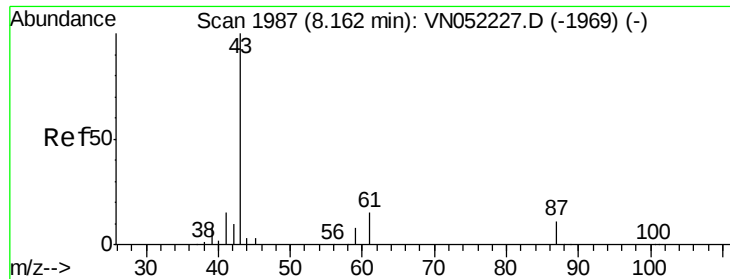
Tot Ion: 75 Resp: 29471
 Ion Ratio Lower Upper
 75 100
 110 9.6 16.4 49.4#
 77 0.0 23.9 35.9#



#38
 Carbon Tetrachloride
 Concen: 7.034 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052286.D
 Acq: 13 Nov 2018 15:03

Tgt Ion: 117 Resp: 35610
 Ion Ratio Lower Upper
 117 100
 119 4.6 75.8 113.8#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 23.190 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

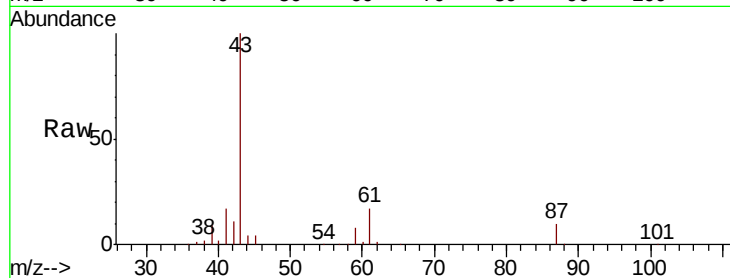
Lab File: VN052286.D

Acq: 13 Nov 2018 15:03

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 169831

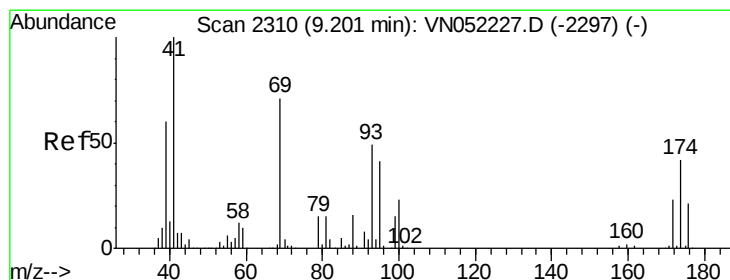
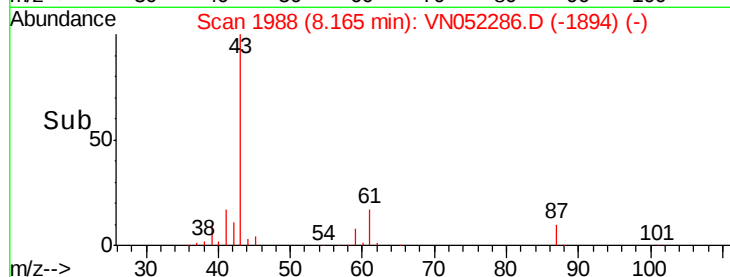
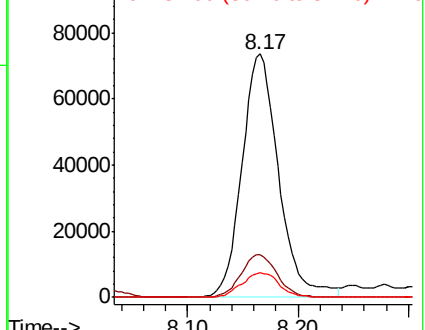
Ion	Ratio	Lower	Upper
43	100		
61	17.2	14.2	21.4
87	10.3	8.4	12.6



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: 1.118 ug/l

RT: 9.18 min Scan# 2304

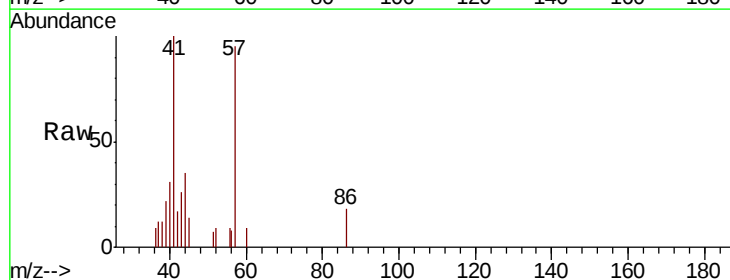
Delta R.T. -0.02 min

Lab File: VN052286.D

Acq: 13 Nov 2018 15:03

Tgt Ion: 41 Resp: 4315

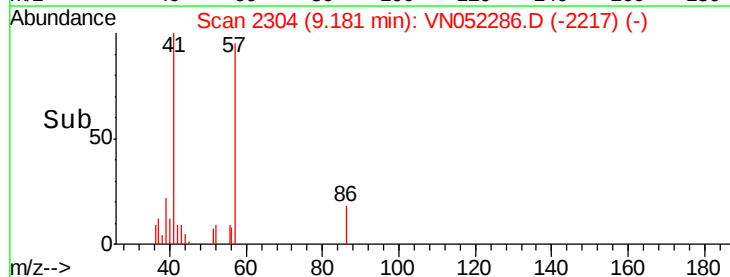
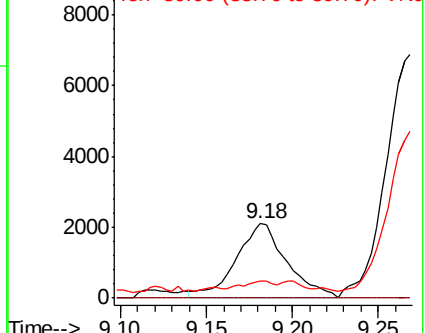
Ion	Ratio	Lower	Upper
41	100		
69	0.0	58.8	88.2#
39	6.4	50.7	76.1#

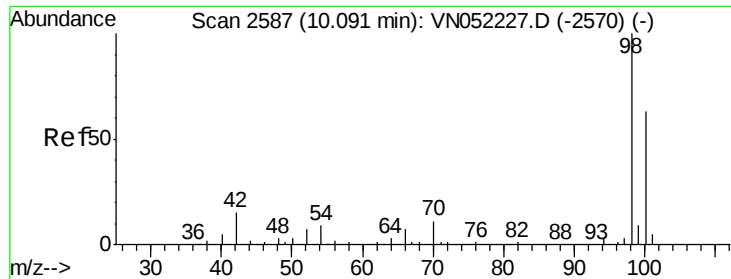


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052286.D

Acq: 13 Nov 2018 15:03

Instrument :

MSVOA_N

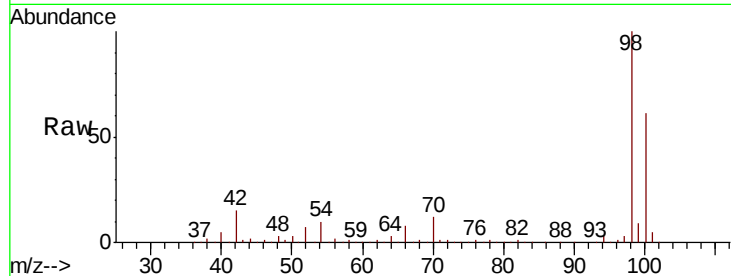
ClientSampled :

Tot Ion: 98 Resp: 684735

Ion Ratio Lower Upper

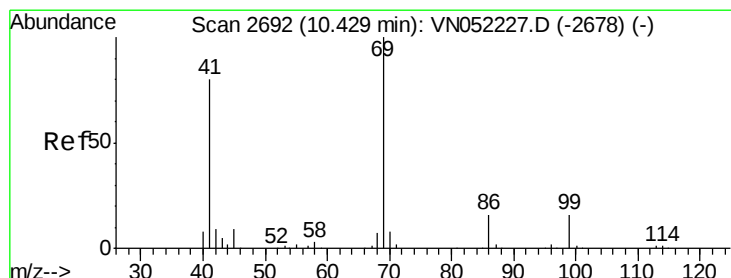
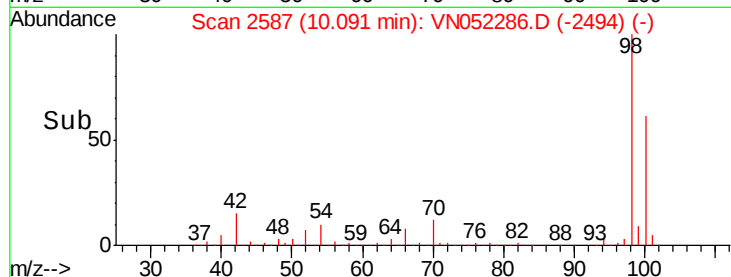
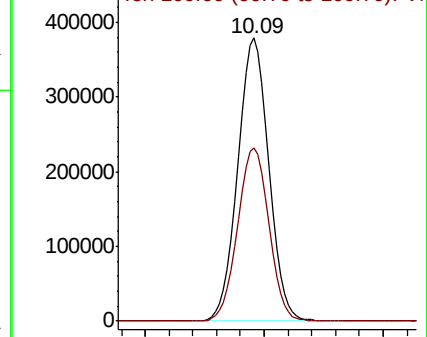
98 100

100 61.9 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#56

Ethyl methacrylate

Concen: 0.243 ug/l

RT: 10.23 min Scan# 2630

Delta R.T. -0.20 min

Lab File: VN052286.D

Acq: 13 Nov 2018 15:03

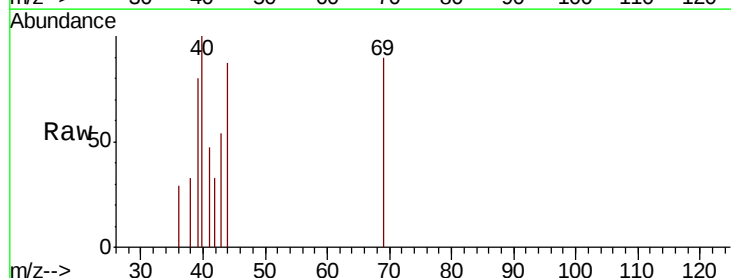
Tgt Ion: 69 Resp: 1145

Ion Ratio Lower Upper

69 100

41 0.0 64.0 96.0#

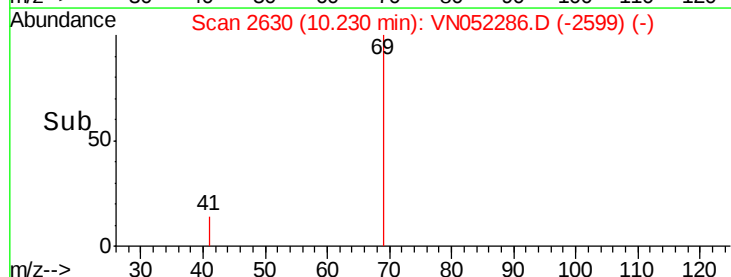
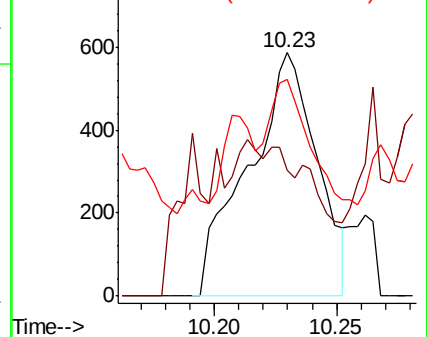
39 27.7 37.8 56.8#

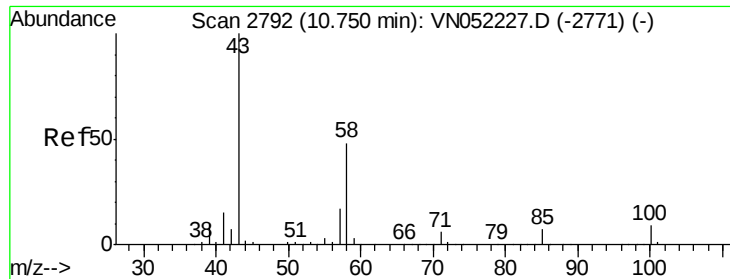


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

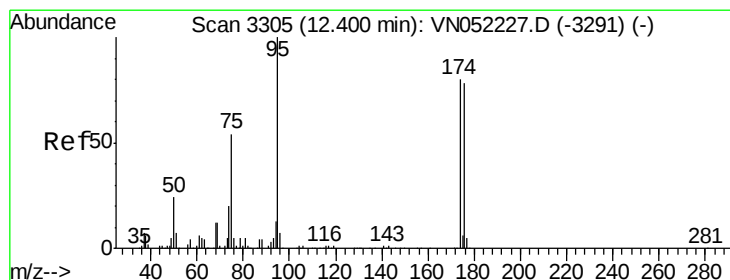
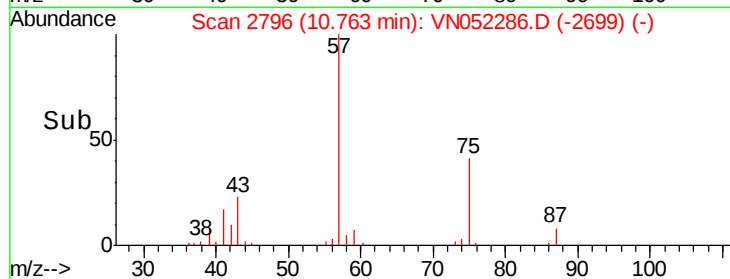
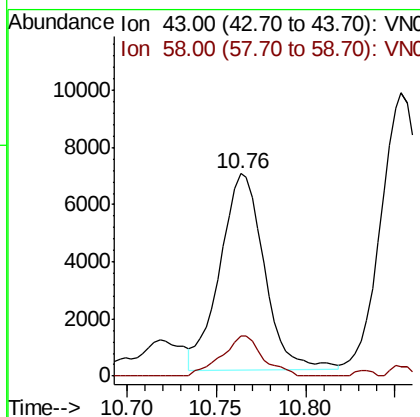
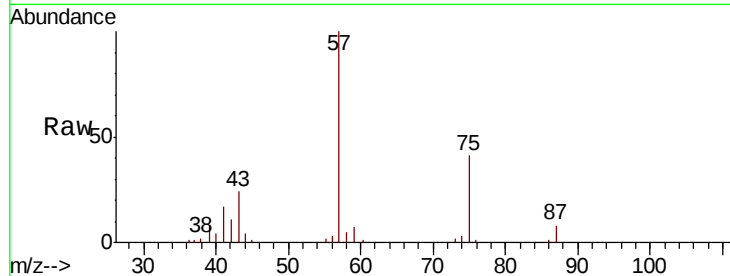




#59
2-Hexanone
Concen: 4.203 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052286.D
Acq: 13 Nov 2018 15:03

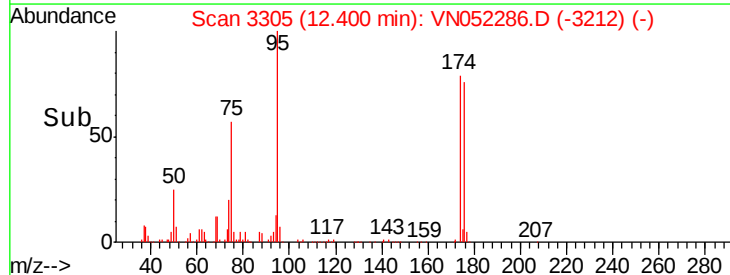
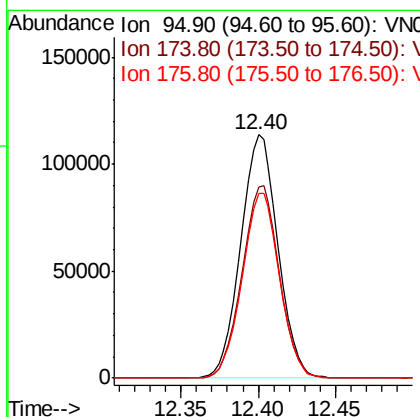
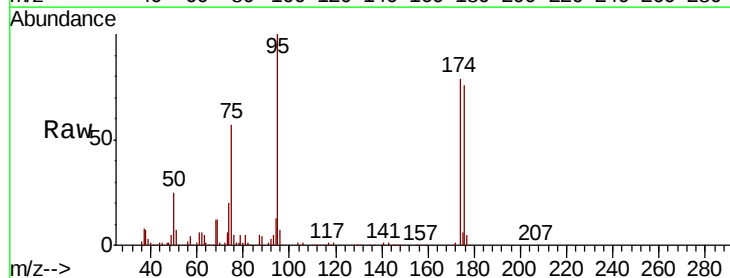
Instrument :
MSVOA_N
ClientSampled :

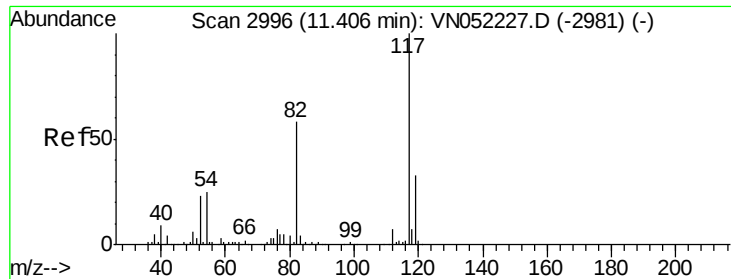
Tot Ion: 43 Resp: 11932
Ion Ratio Lower Upper
43 100
58 19.0 24.1 72.3#



#62
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052286.D
Acq: 13 Nov 2018 15:03

Tgt Ion: 95 Resp: 190280
Ion Ratio Lower Upper
95 100
174 79.3 0.0 159.4
176 76.2 0.0 157.8

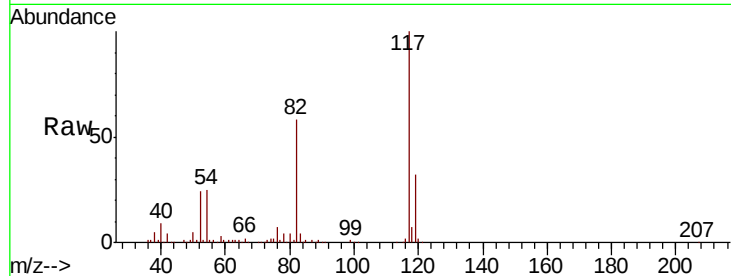




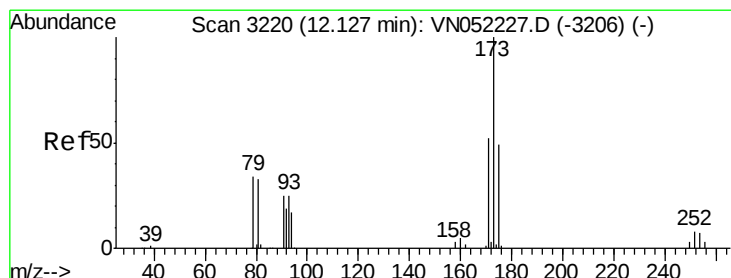
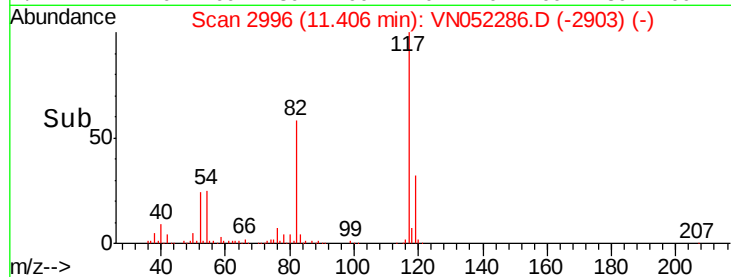
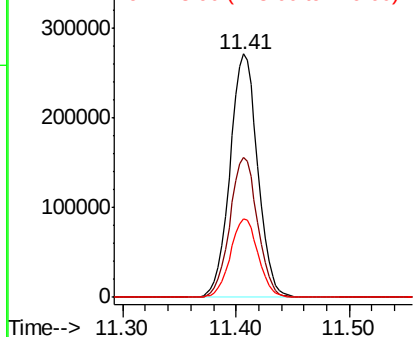
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052286.D
Acq: 13 Nov 2018 15:03

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 462173
Ion Ratio Lower Upper
117 100
82 57.6 46.2 69.2
119 32.4 26.2 39.4

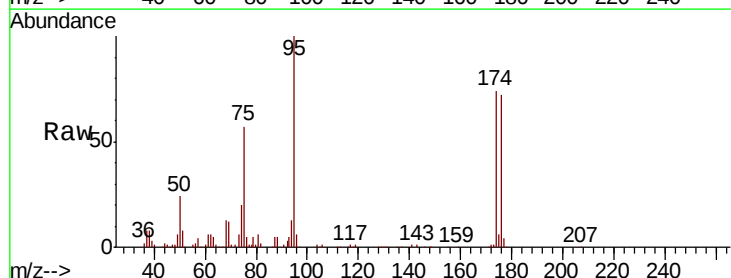


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

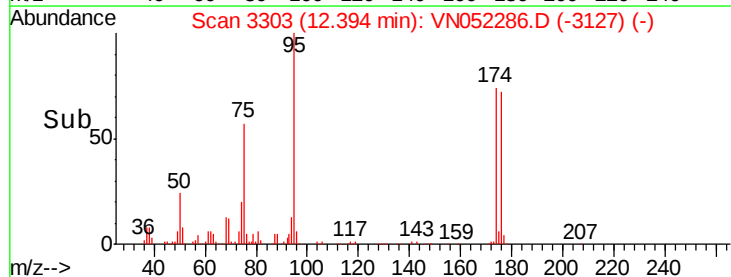
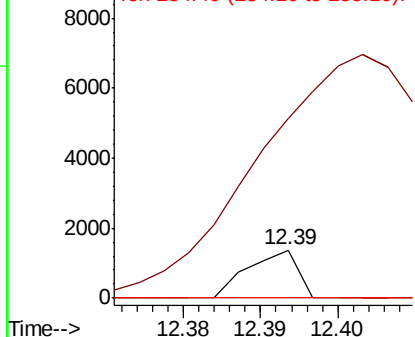


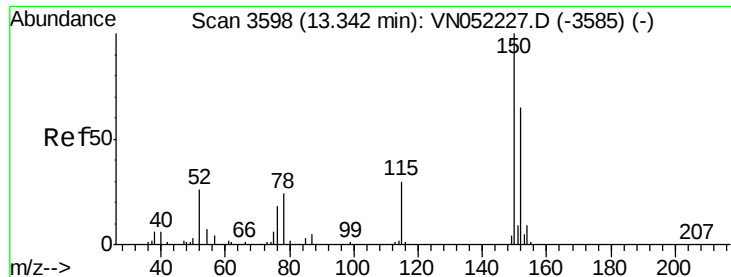
#71
Bromoform
Concen: 0.311 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN052286.D
Acq: 13 Nov 2018 15:03

Tgt Ion:173 Resp: 615
Ion Ratio Lower Upper
173 100
175 1680.2 24.5 73.5#
254 0.0 0.0 0.0



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052286.D

Acq: 13 Nov 2018 15:03

Instrument :

MSVOA_N

ClientSampled :

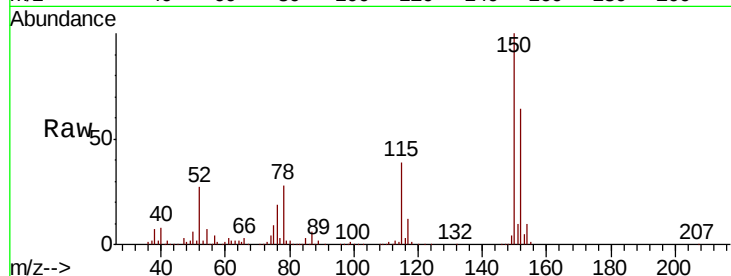
Tot Ion:152 Resp: 157200

Ion Ratio Lower Upper

152 100

115 59.9 29.8 89.5

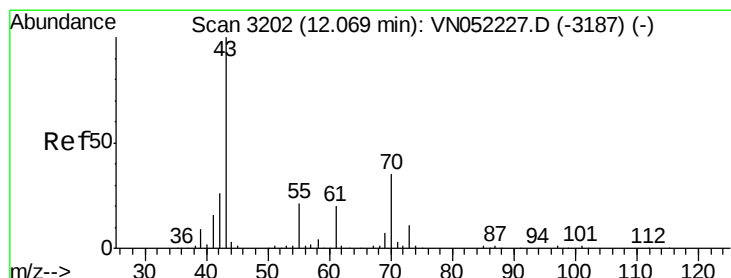
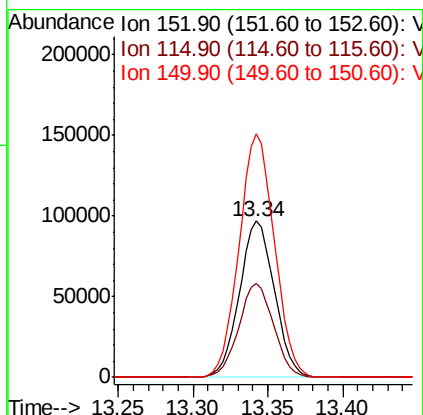
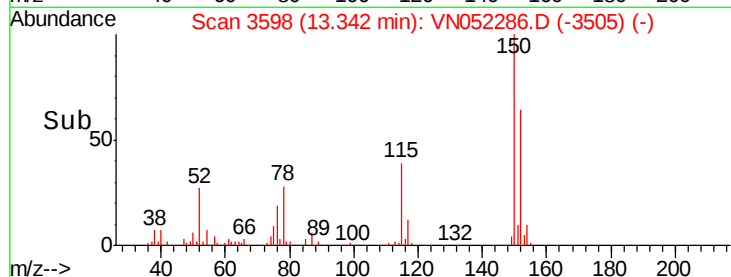
150 157.4 0.0 350.2



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: 0.202 ug/l

RT: 12.08 min Scan# 3204

Delta R.T. 0.01 min

Lab File: VN052286.D

Acq: 13 Nov 2018 15:03

Tgt Ion: 43 Resp: 941

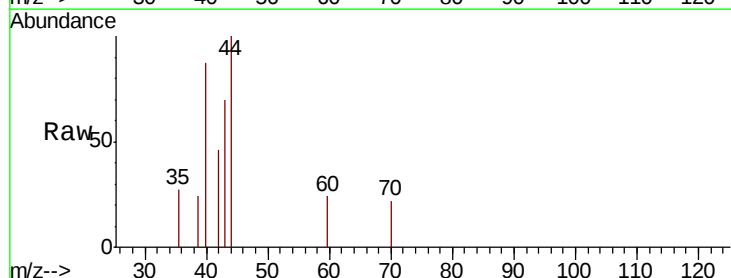
Ion Ratio Lower Upper

43 100

70 6.6 28.2 42.2#

55 3.3 17.4 26.2#

61 3.2 16.3 24.5#

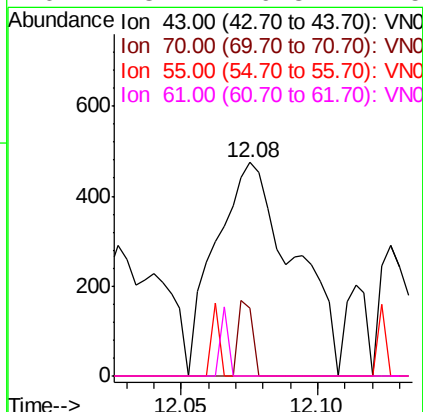
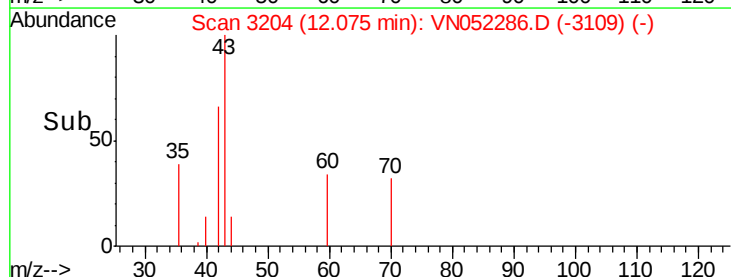


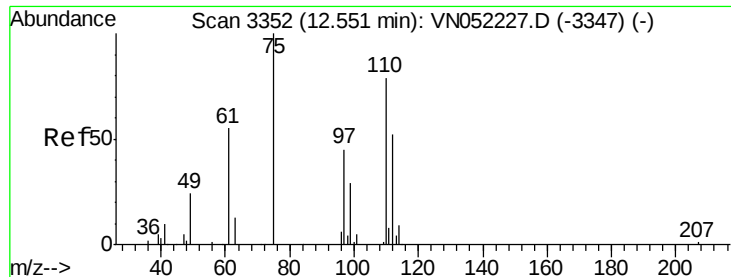
Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 38.488 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052286.D

Acq: 13 Nov 2018 15:03

Instrument :

MSVOA_N

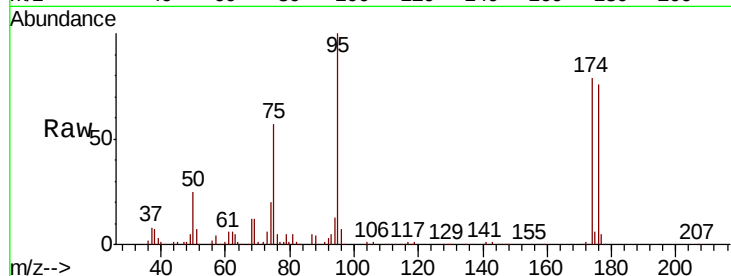
ClientSampled :

Tot Ion: 75 Resp: 107047

Ion Ratio Lower Upper

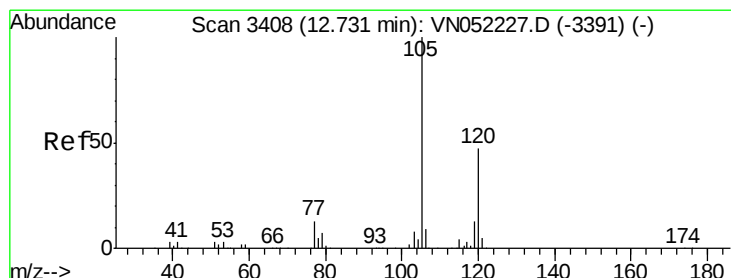
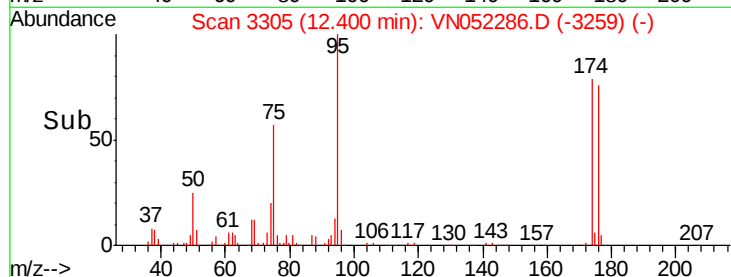
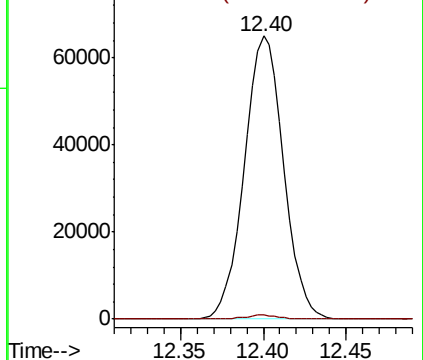
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.300 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052286.D

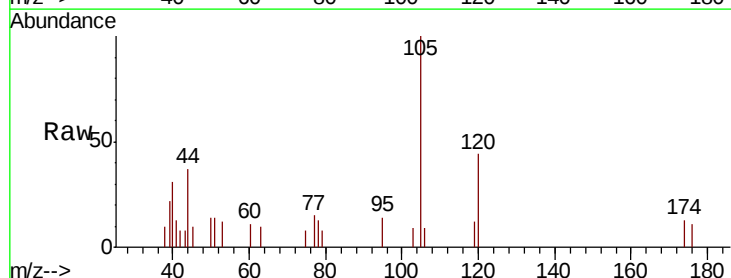
Acq: 13 Nov 2018 15:03

Tgt Ion: 105 Resp: 3065

Ion Ratio Lower Upper

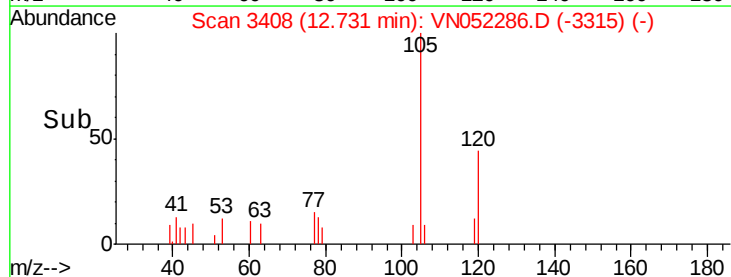
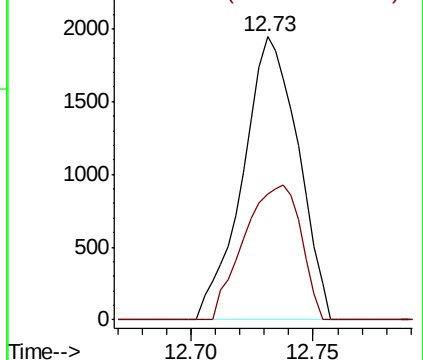
105 100

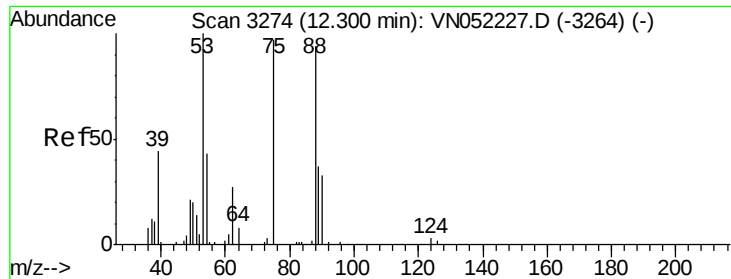
120 49.1 23.9 71.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 131.378 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052286.D

Acq: 13 Nov 2018 15:03

Instrument :

MSVOA_N

ClientSampled :

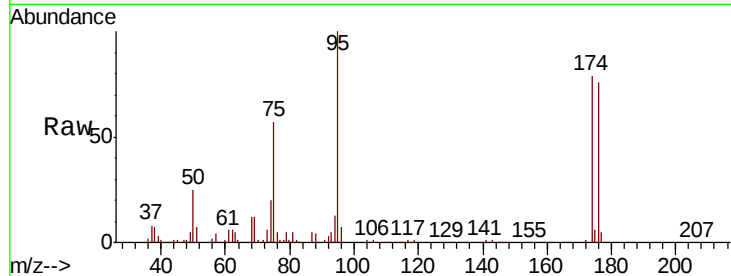
Tot Ion: 75 Resp: 107047

Ion Ratio Lower Upper

75 100

53 0.0 84.0 126.0#

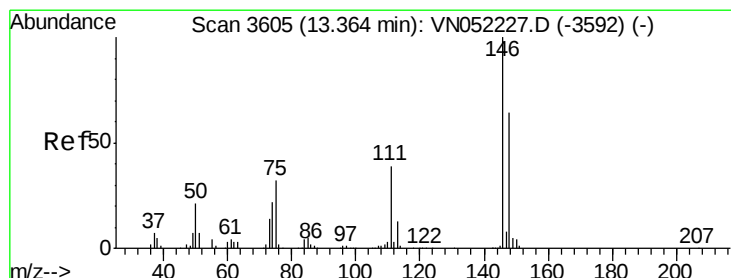
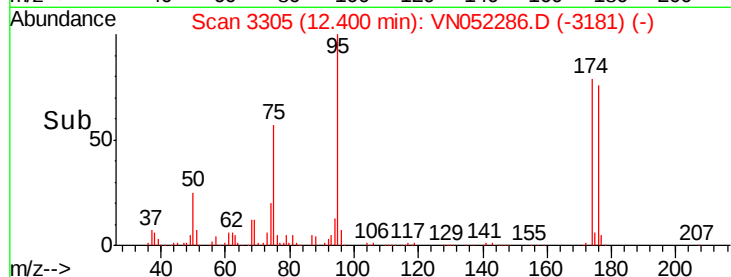
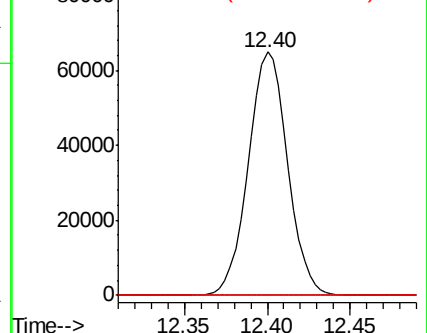
89 0.0 33.7 50.5#



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



#88

1,4-Dichlorobenzene

Concen: 0.222 ug/l

RT: 13.36 min Scan# 3604

Delta R.T. -0.00 min

Lab File: VN052286.D

Acq: 13 Nov 2018 15:03

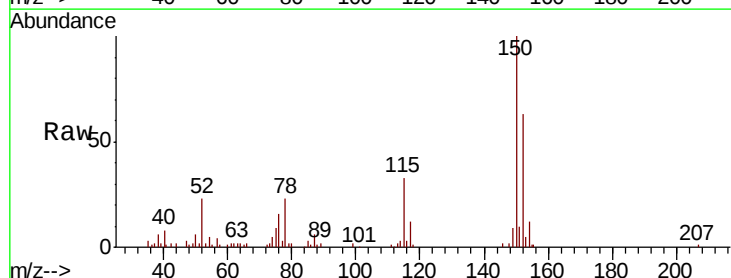
Tgt Ion: 146 Resp: 1163

Ion Ratio Lower Upper

146 100

111 0.0 20.2 60.6#

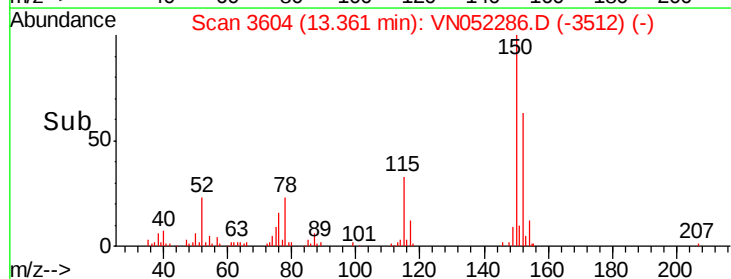
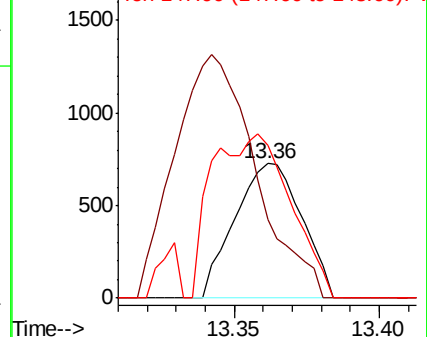
148 144.5 32.1 96.3#

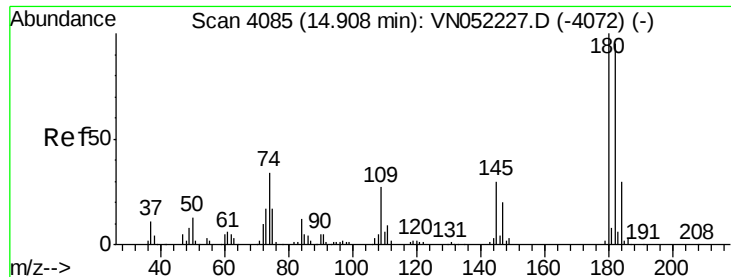


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

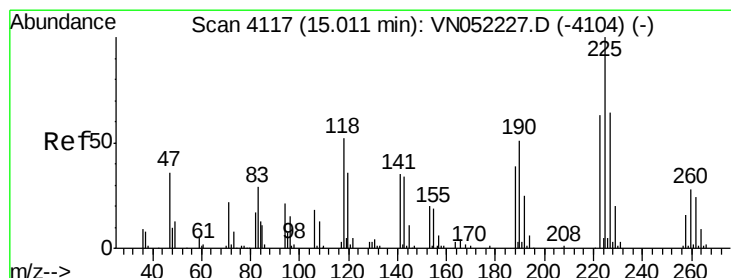
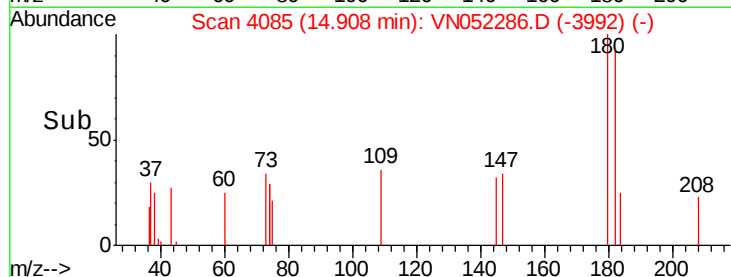
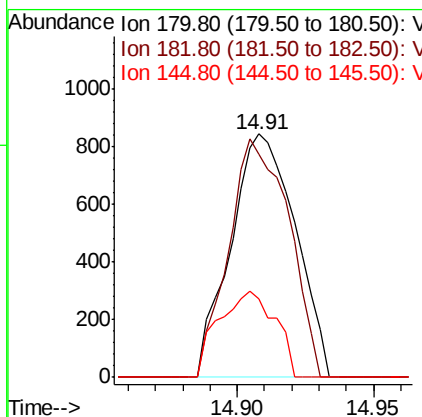
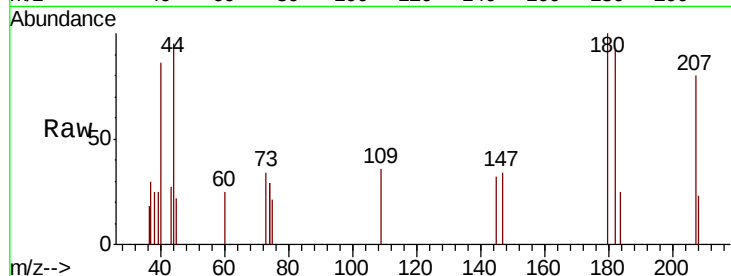




#93
 1,2,4-Trichlorobenzene
 Concen: 0.688 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN052286.D
 Acq: 13 Nov 2018 15:03

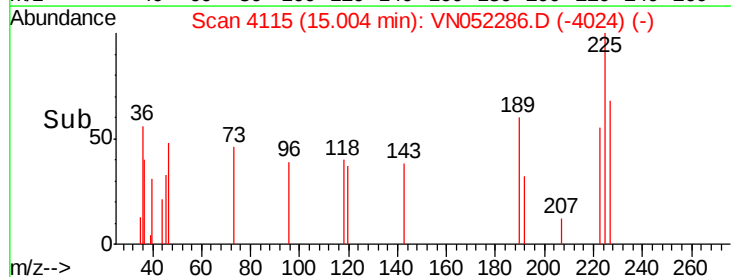
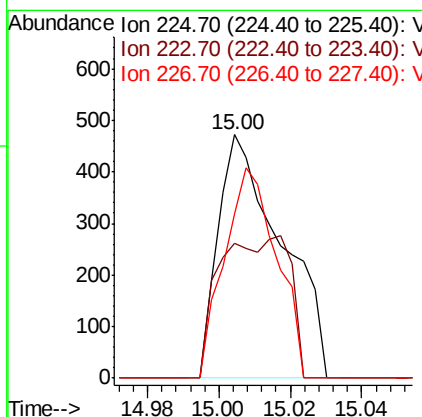
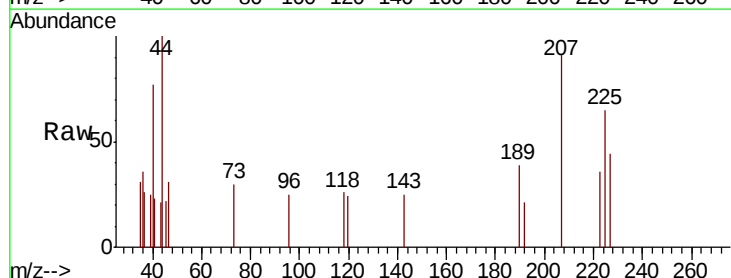
Instrument :
 MSVOA_N
 ClientSampled :

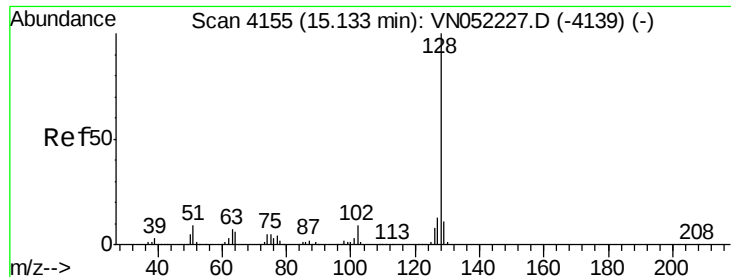
Tot Ion:180 Resp: 1391
 Ion Ratio Lower Upper
 180 100
 182 91.2 47.3 142.0
 145 30.7 15.6 46.8



#94
 Hexachlorobutadiene
 Concen: 0.525 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.01 min
 Lab File: VN052286.D
 Acq: 13 Nov 2018 15:03

Tgt Ion:225 Resp: 576
 Ion Ratio Lower Upper
 225 100
 223 65.3 32.1 96.3
 227 71.5 31.8 95.4





#95

Naphthalene

Concen: 0.804 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN052286.D

Acq: 13 Nov 2018 15:03

Instrument :

MSVOA_N

ClientSampleId :

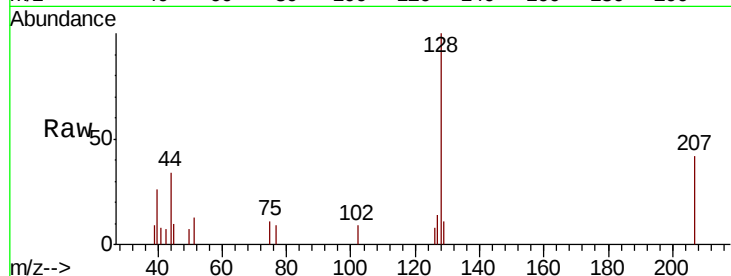
Tot Ion:128 Resp: 4003

Ion Ratio Lower Upper

128 100

127 9.1 10.6 16.0#

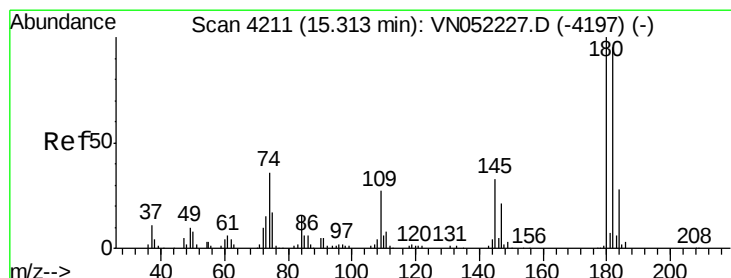
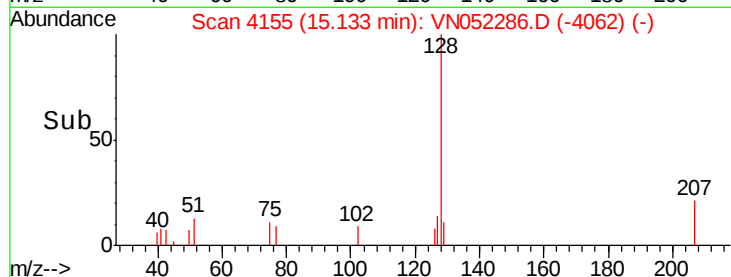
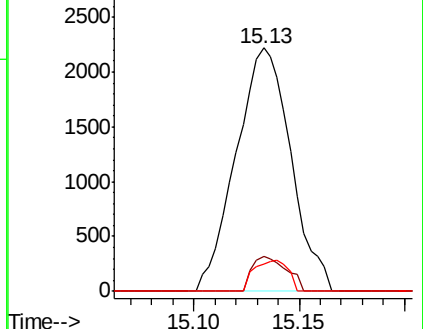
129 7.8 8.7 13.1#



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



#96

1,2,3-Trichlorobenzene

Concen: 0.855 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN052286.D

Acq: 13 Nov 2018 15:03

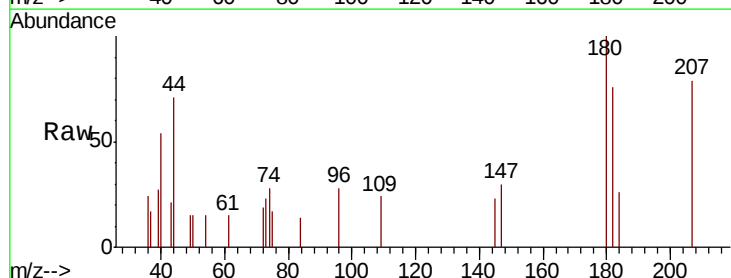
Tgt Ion:180 Resp: 1634

Ion Ratio Lower Upper

180 100

182 81.4 47.7 143.1

145 30.7 16.8 50.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

