

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081618\
 Data File : VN050707.D
 Acq On : 16 Aug 2018 17:35
 Operator : MD\SY
 Sample : PB112098ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 17 04:32:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	588386	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	995971	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	857245	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	306130	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	413207	55.71	ug/l	0.00
Spiked Amount			Recovery	=	111.42%	
35) Dibromofluoromethane	7.59	113	384303	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	
50) Toluene-d8	10.09	98	1353611	45.23	ug/l	0.00
Spiked Amount			Recovery	=	90.46%	
62) 4-Bromofluorobenzene	12.40	95	373029	37.73	ug/l	0.00
Spiked Amount			Recovery	=	75.46%	

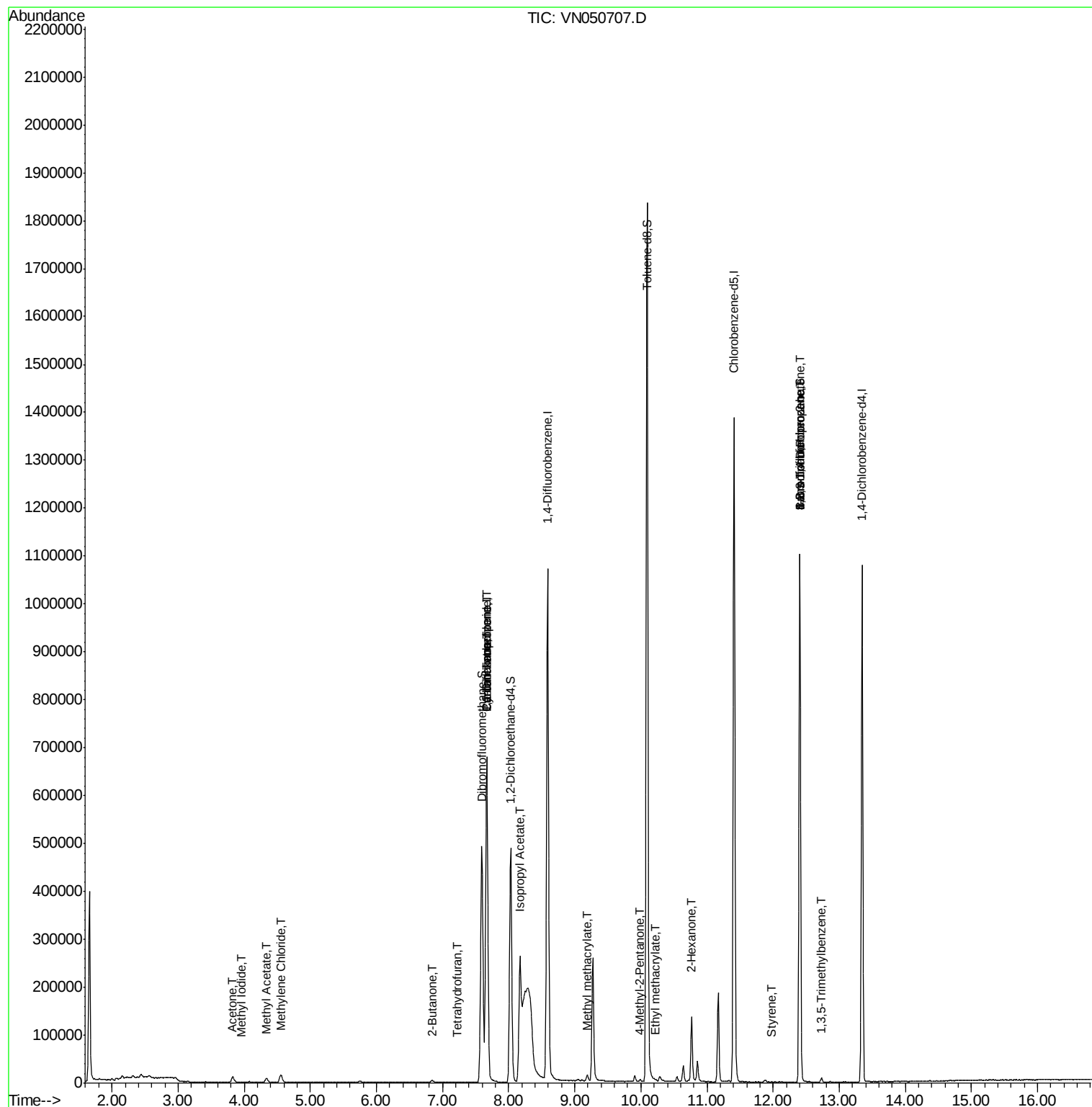
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2299	Below Cal		96
5) Bromomethane	2.57	94	2604	Below Cal		82
6) Chloroethane	2.71	64	195	Below Cal	#	43
10) Methyl Iodide	3.95	142	287	6.998	ug/l #	42
16) Acetone	3.82	43	21196	10.054	ug/l	99
18) Methyl Acetate	4.34	43	16725	2.261	ug/l	95
20) Methylene Chloride	4.56	84	11773	0.409	ug/l	95
25) 2-Butanone	6.85	43	4235	1.393	ug/l	92
29) Tetrahydrofuran	7.22	42	474	0.299	ug/l #	33
31) Cyclohexane	7.67	56	10284	0.573	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43387	3.913	ug/l #	48
38) Carbon Tetrachloride	7.67	117	51624	4.489	ug/l #	17
43) Isopropyl Acetate	8.17	43	327668	28.690	ug/l #	92
48) Methyl methacrylate	9.18	41	7582	1.319	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	2310	0.299	ug/l	92
56) Ethyl methacrylate	10.23	69	2467	2.152	ug/l #	85
59) 2-Hexanone	10.77	43	19160	3.843	ug/l #	60
70) Styrene	11.97	104	99	0.945	ug/l #	26
71) Bromoform	12.40	173	2283	0.430	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	200	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	177772	35.648	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4335	0.226	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.40	75	177772	129.103	ug/l #	13

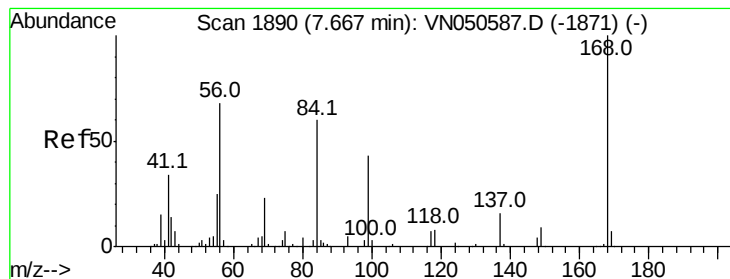
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 17 04:32:42 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 14 08:07:08 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050707.D

Acq: 16 Aug 2018 17:35

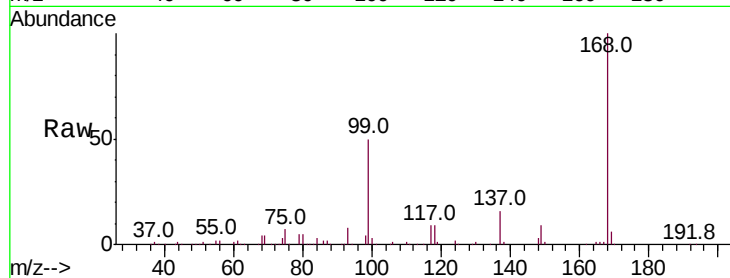
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 588386

Ion Ratio Lower Upper

168 100

99 50.5 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

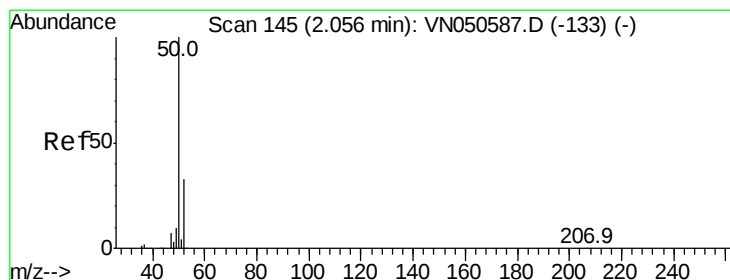
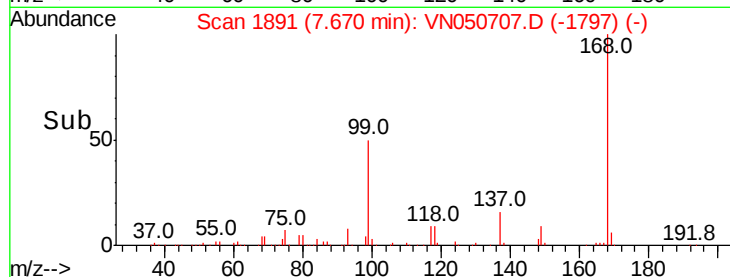
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050707.D

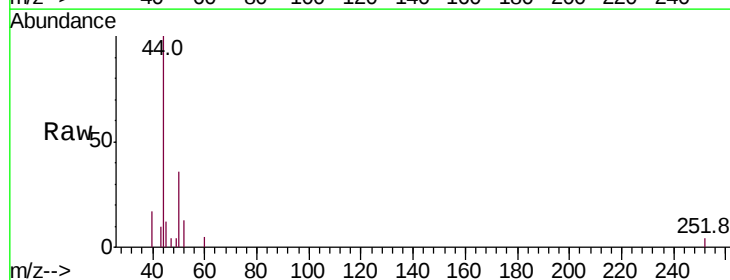
Acq: 16 Aug 2018 17:35

Tgt Ion: 50 Resp: 2299

Ion Ratio Lower Upper

50 100

52 34.6 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2000

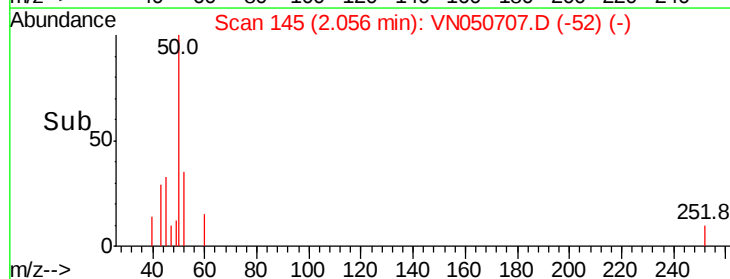
1500

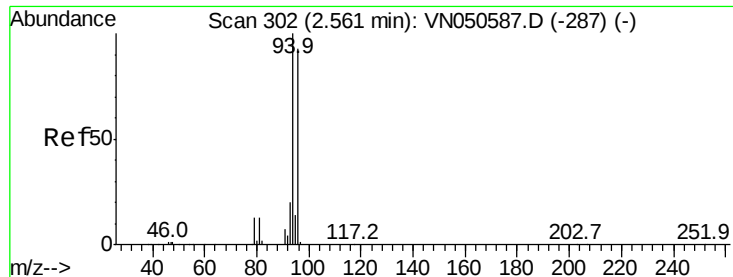
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050707.D

Acq: 16 Aug 2018 17:35

Instrument :

MSVOA_N

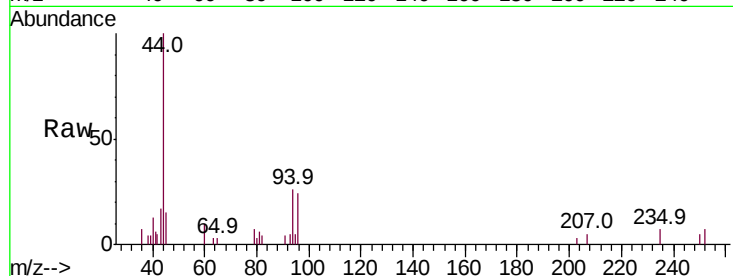
ClientSampled :

Tot Ion: 94 Resp: 2604

Ion Ratio Lower Upper

94 100

96 75.3 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

1500

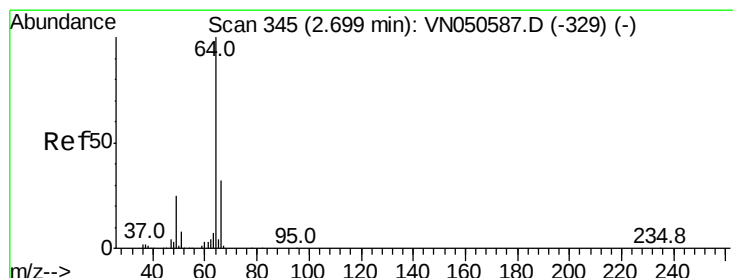
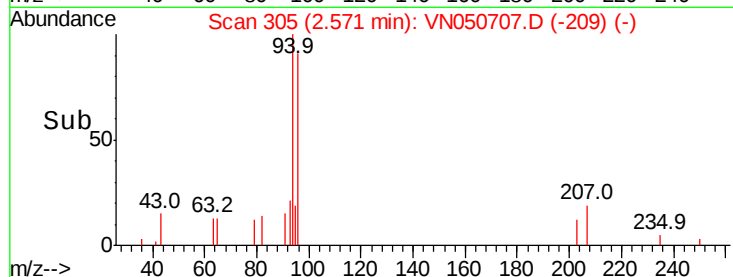
1000

500

0

2.55 2.57 2.60

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 2.71 min Scan# 347

Delta R.T. 0.01 min

Lab File: VN050707.D

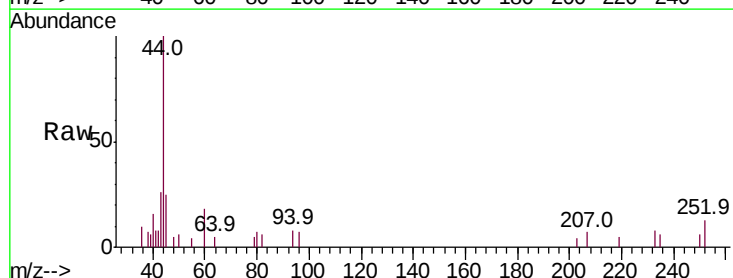
Acq: 16 Aug 2018 17:35

Tgt Ion: 64 Resp: 195

Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

200

150

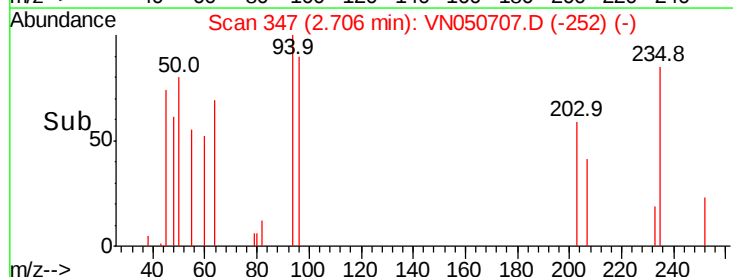
100

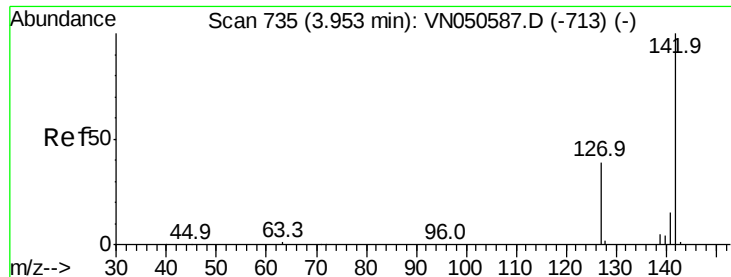
50

0

2.68 2.69 2.70 2.71 2.72

Time-->

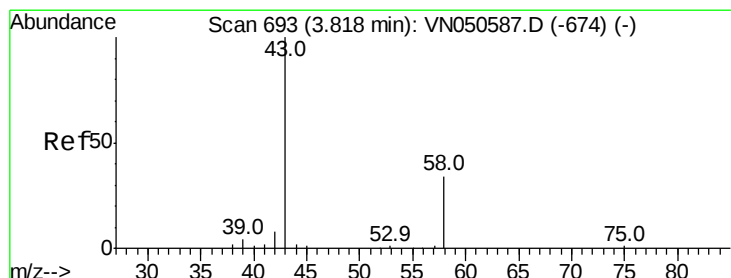
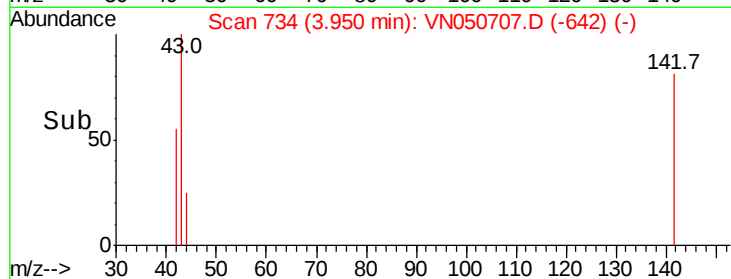
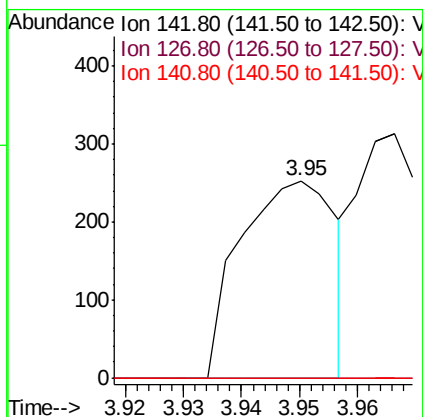
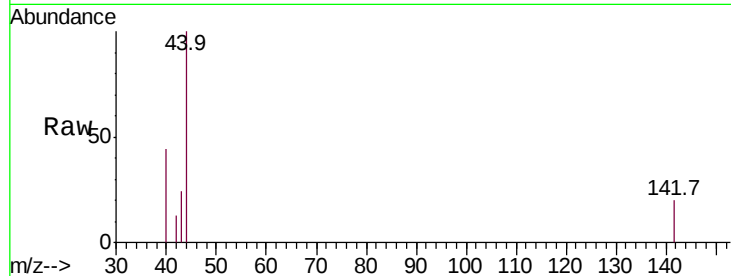




#10
Methvl Iodide
Concen: 6.998 ug/l
RT: 3.95 min Scan# 734
Delta R.T. -0.00 min
Lab File: VN050707.D
Acq: 16 Aug 2018 17:35

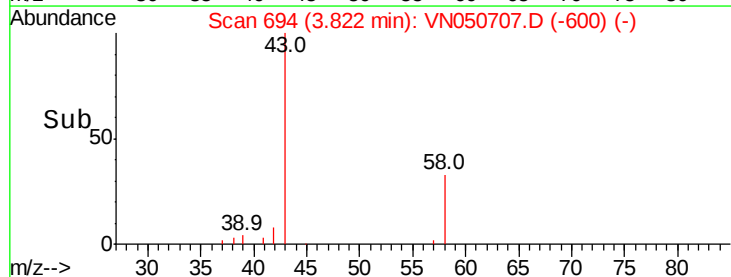
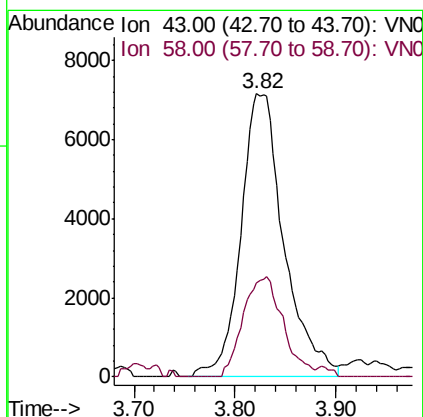
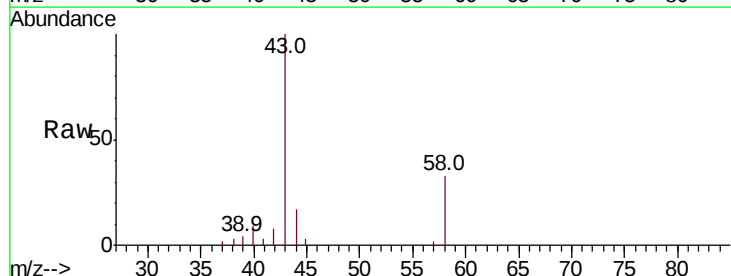
Instrument :
MSVOA_N
ClientSampled :

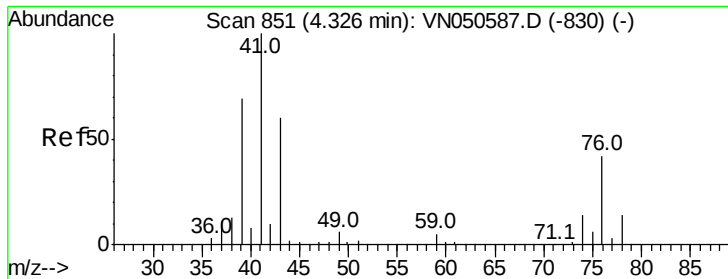
Tot Ion:142 Resp: 287
Ion Ratio Lower Upper
142 100
127 0.0 32.6 49.0#
141 0.0 11.5 17.3#



#16
Acetone
Concen: 10.054 ug/l
RT: 3.82 min Scan# 694
Delta R.T. 0.00 min
Lab File: VN050707.D
Acq: 16 Aug 2018 17:35

Tgt Ion: 43 Resp: 21196
Ion Ratio Lower Upper
43 100
58 33.3 27.1 40.7

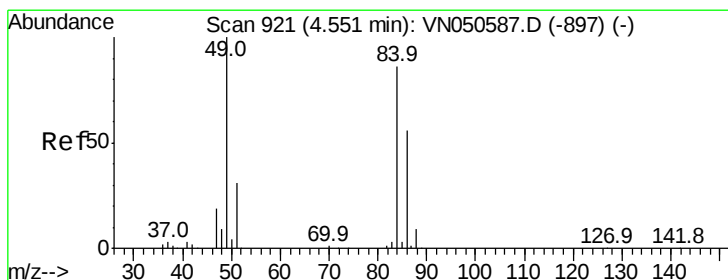
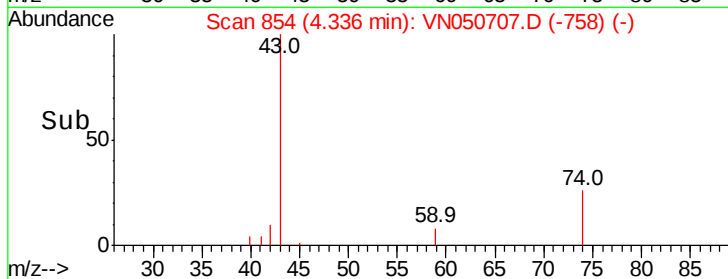
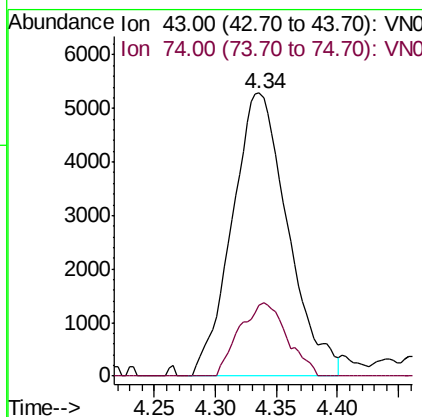
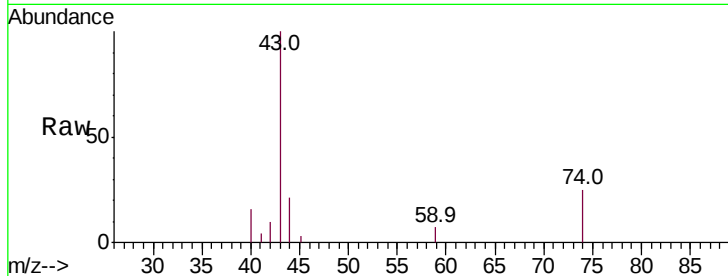




#18
Methyl Acetate
Concen: 2.261 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN050707.D
Acq: 16 Aug 2018 17:35

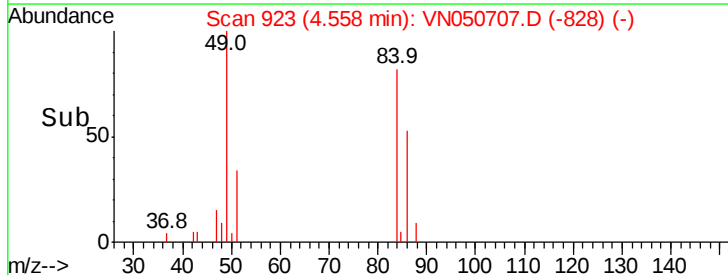
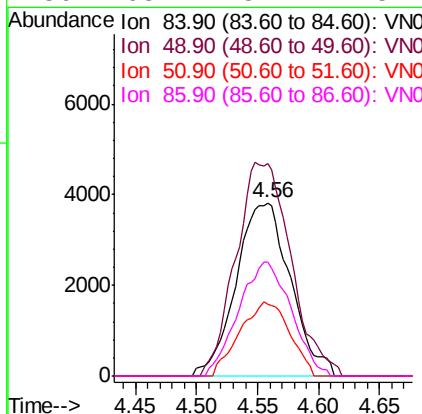
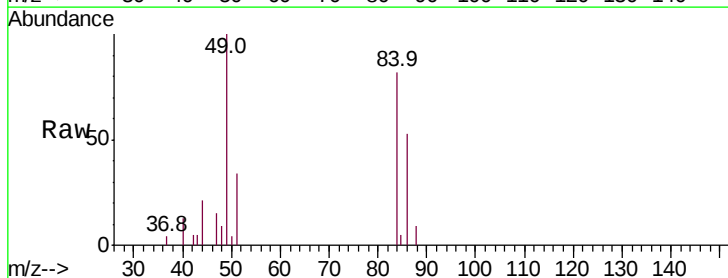
Instrument :
MSVOA_N
ClientSampled :

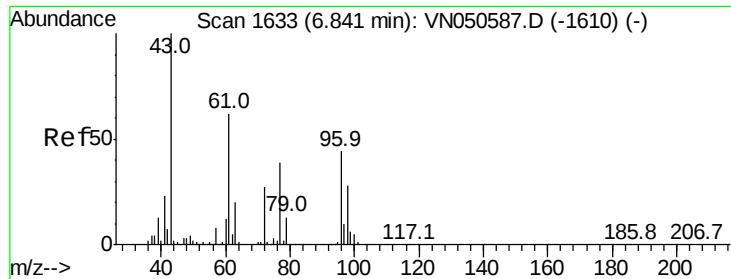
Tot Ion: 43 Resp: 16725
Ion Ratio Lower Upper
43 100
74 22.3 19.7 29.5



#20
Methylene Chloride
Concen: 0.409 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050707.D
Acq: 16 Aug 2018 17:35

Tgt Ion: 84 Resp: 11773
Ion Ratio Lower Upper
84 100
49 122.4 92.6 138.8
51 41.1 28.6 43.0
86 65.4 52.2 78.2

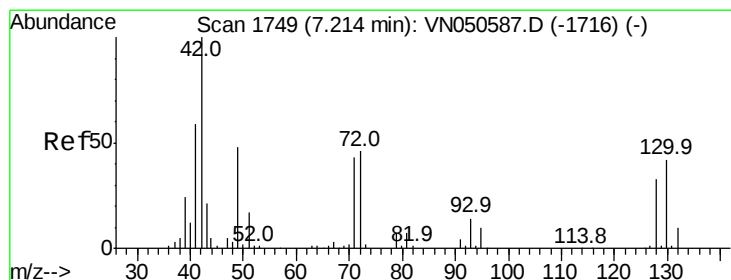
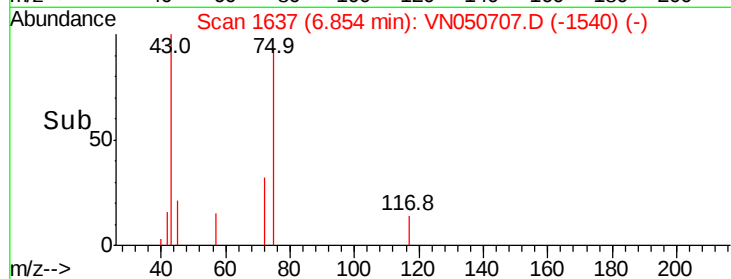
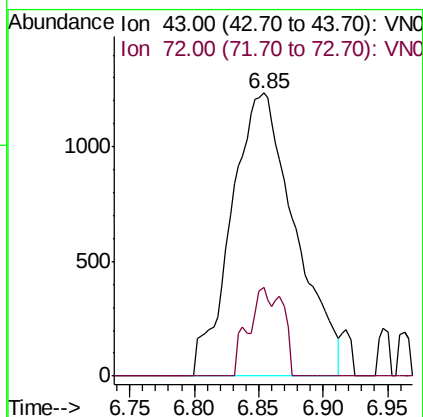
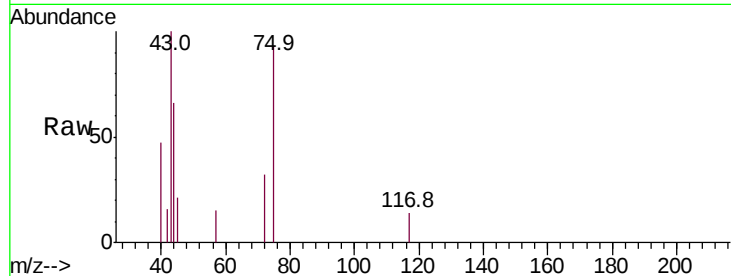




#25
 2-Butanone
 Concen: 1.393 ug/l
 RT: 6.85 min Scan# 1637
 Delta R.T. 0.01 min
 Lab File: VN050707.D
 Acq: 16 Aug 2018 17:35

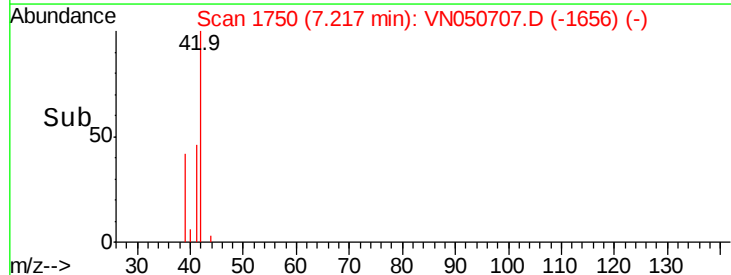
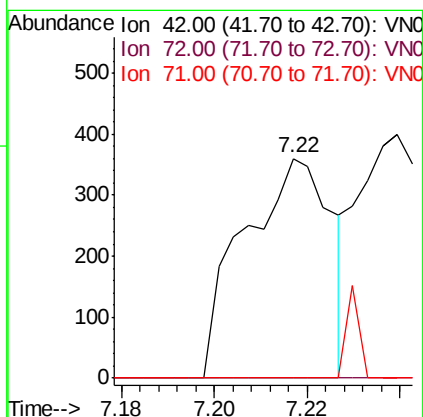
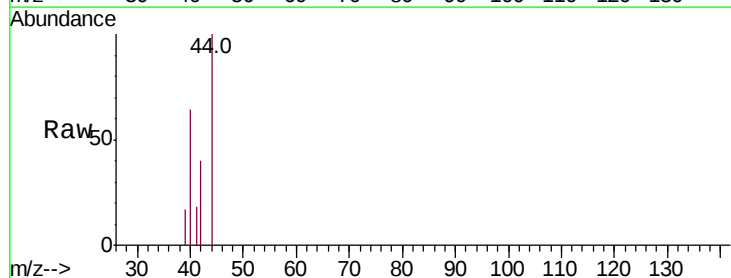
Instrument :
 MSVOA_N
 ClientSampled :

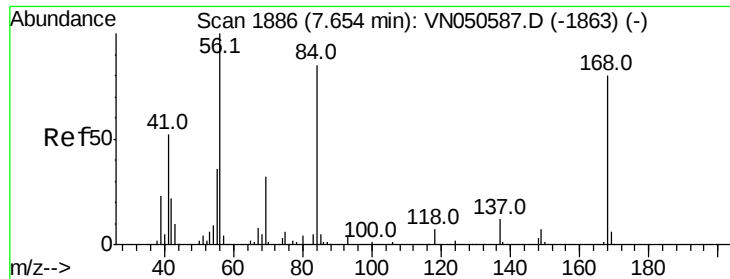
Tot Ion: 43 Resp: 4235
 Ion Ratio Lower Upper
 43 100
 72 31.6 21.8 32.6



#29
 Tetrahydrofuran
 Concen: 0.299 ug/l
 RT: 7.22 min Scan# 1750
 Delta R.T. 0.00 min
 Lab File: VN050707.D
 Acq: 16 Aug 2018 17:35

Tgt Ion: 42 Resp: 474
 Ion Ratio Lower Upper
 42 100
 72 0.0 35.8 53.6#
 71 0.0 33.4 50.0#

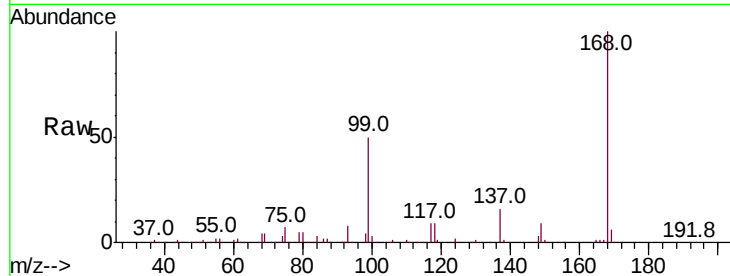




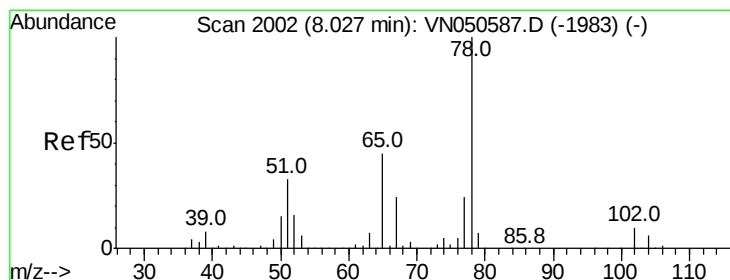
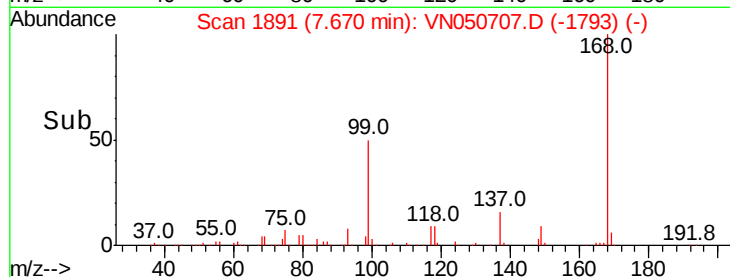
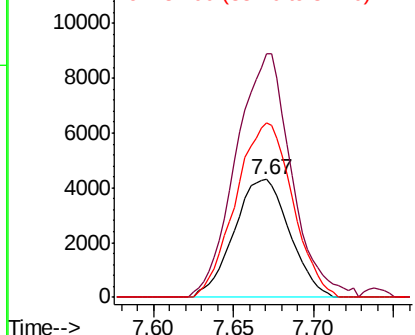
#31
Cyclohexane
Concen: 0.573 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.02 min
Lab File: VN050707.D
Acq: 16 Aug 2018 17:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 10284
Ion Ratio Lower Upper
56 100
69 206.7 25.8 38.6#
84 148.9 67.8 101.6#

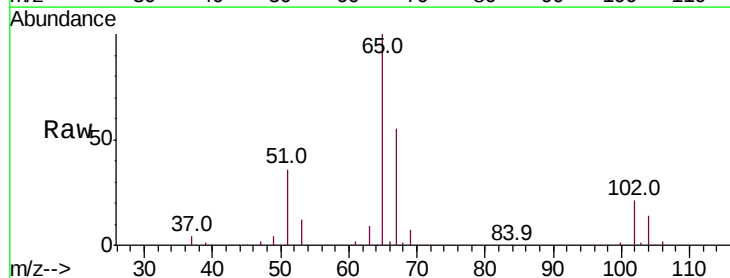


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

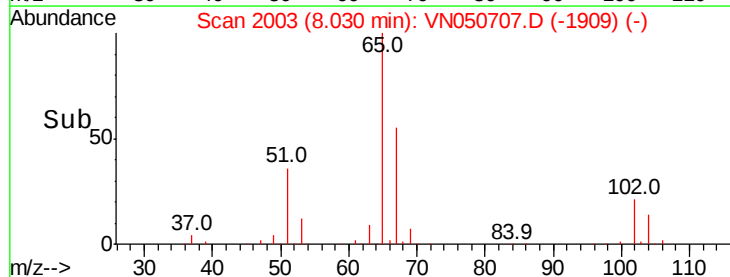
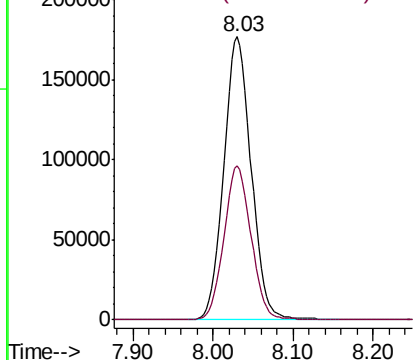


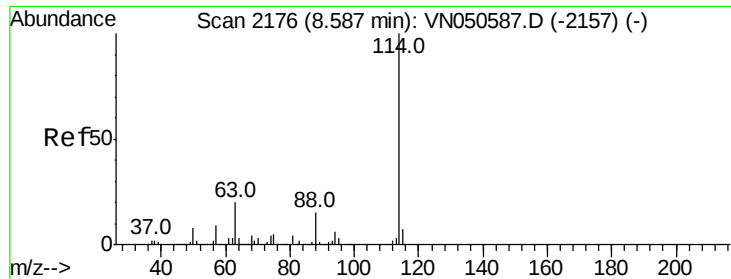
#33
1,2-Dichloroethane-d4
Concen: 55.714 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050707.D
Acq: 16 Aug 2018 17:35

Tgt Ion: 65 Resp: 413207
Ion Ratio Lower Upper
65 100
67 54.1 0.0 109.8



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

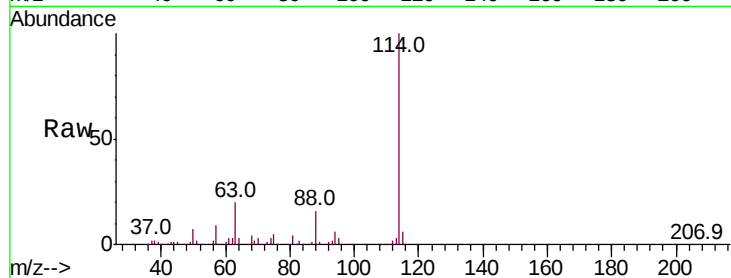




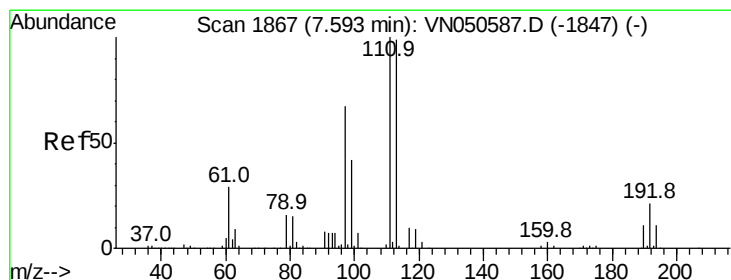
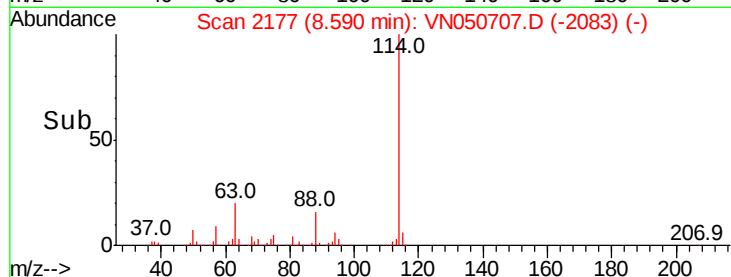
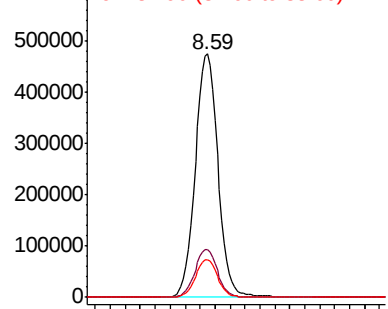
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050707.D
 Acq: 16 Aug 2018 17:35

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 995971
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.0
 88 15.5 0.0 30.8

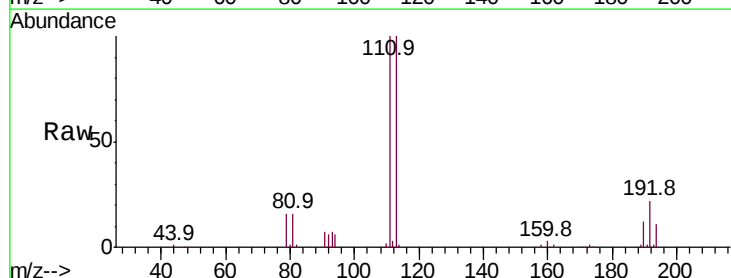


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

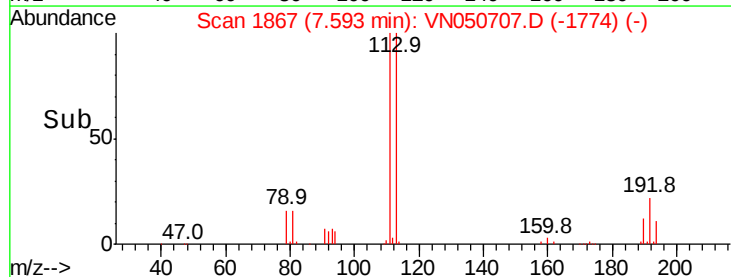
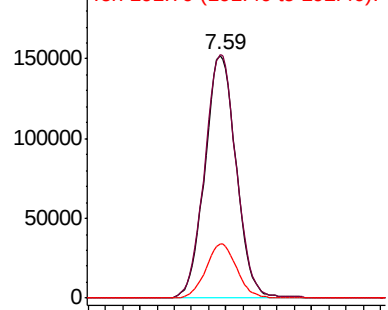


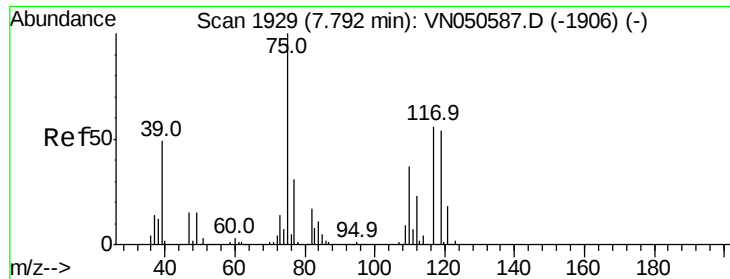
#35
 Dibromofluoromethane
 Concen: 48.331 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050707.D
 Acq: 16 Aug 2018 17:35

Tgt Ion:113 Resp: 384303
 Ion Ratio Lower Upper
 113 100
 111 101.8 81.0 121.6
 192 21.9 17.6 26.4



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

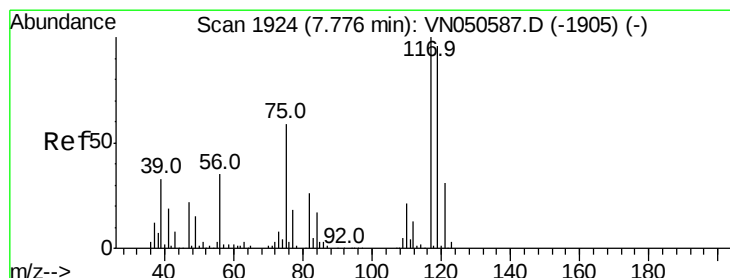
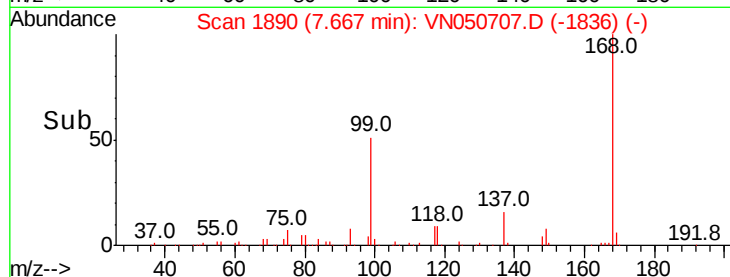
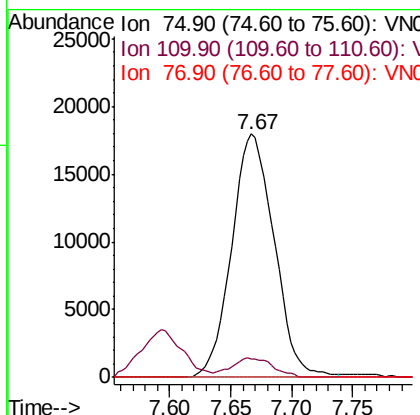
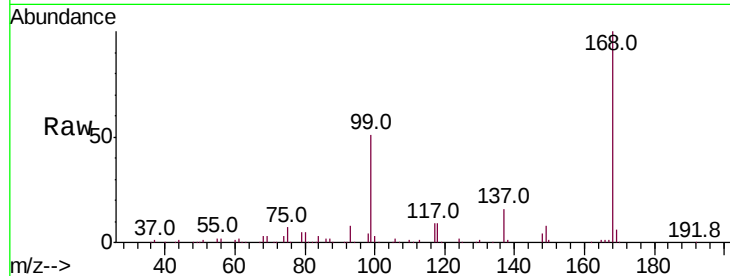




#36
 1,1-Dichloropropene
 Concen: 3.913 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050707.D
 Acq: 16 Aug 2018 17:35

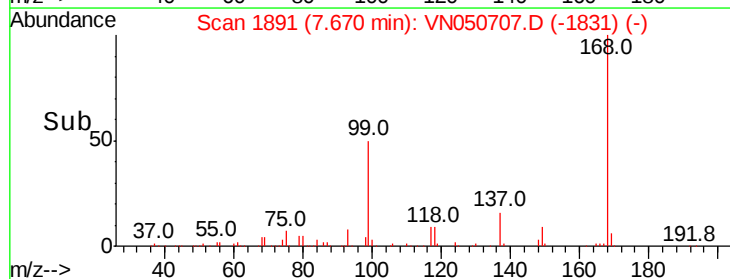
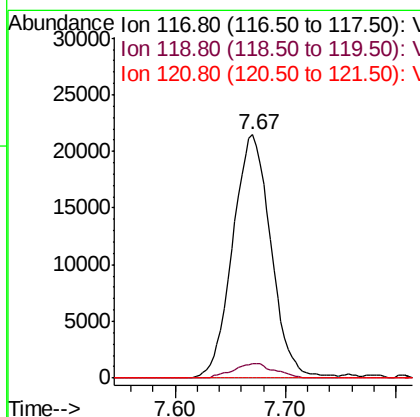
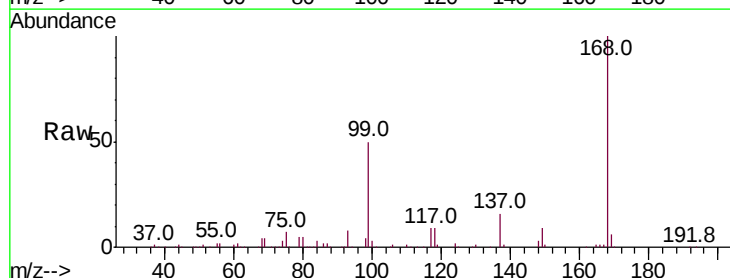
Instrument :
 MSVOA_N
 ClientSampled :

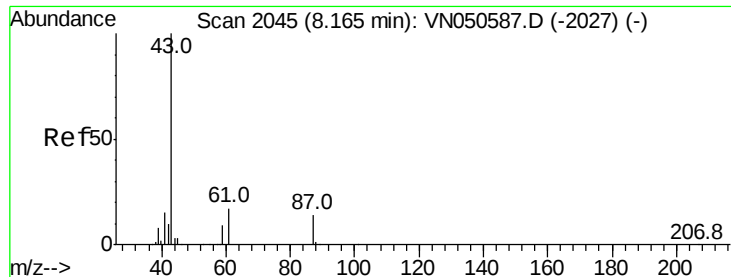
Tot Ion	75	Resp	43387
Ion Ratio	Lower	Upper	
75	100		
110	7.8	18.3	54.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 4.489 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050707.D
 Acq: 16 Aug 2018 17:35

Tgt Ion	117	Resp	51624
Ion Ratio	Lower	Upper	
117	100		
119	5.8	76.6	115.0#
121	0.0	25.0	37.6#



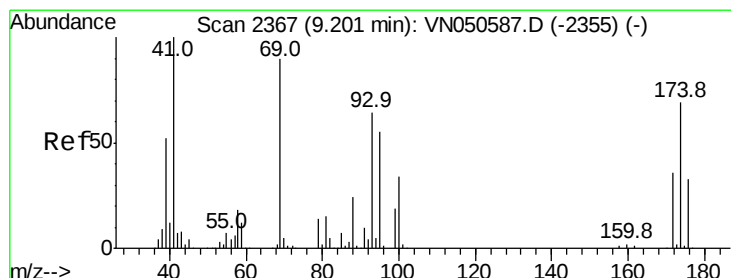
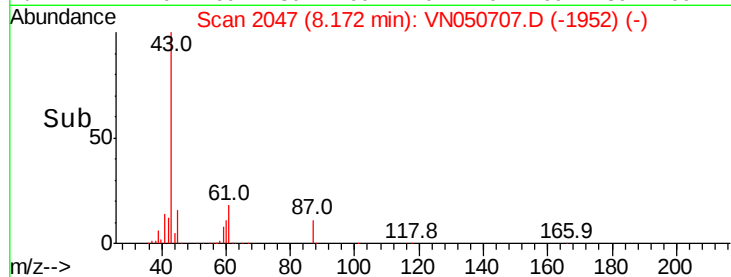
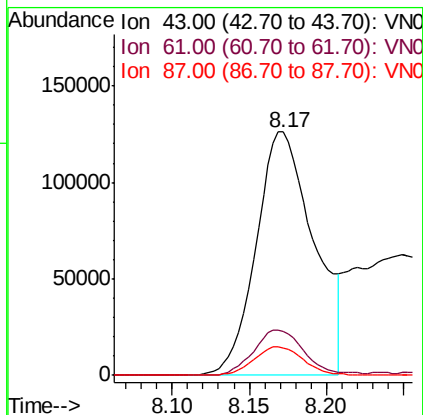
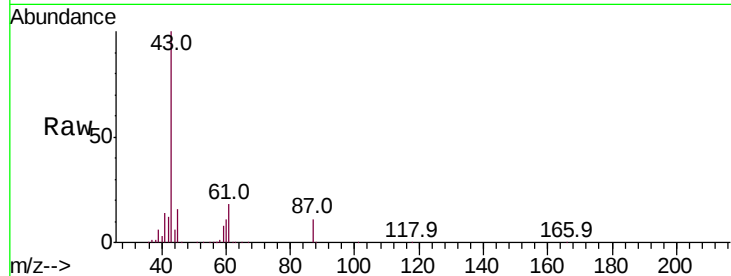


#43

Isopropyl Acetate
 Concen: 28.690 ug/l
 RT: 8.17 min Scan# 2047
 Delta R.T. 0.01 min
 Lab File: VN050707.D
 Acq: 16 Aug 2018 17:35

Instrument :
 MSVOA_N
 ClientSampled :

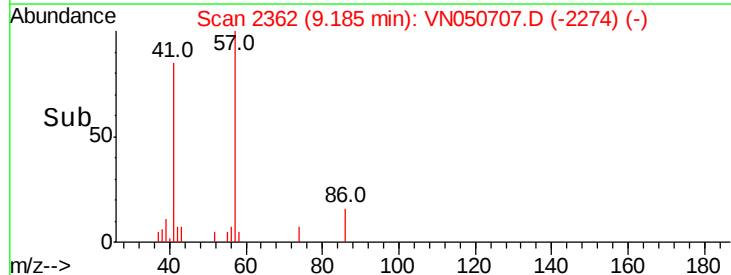
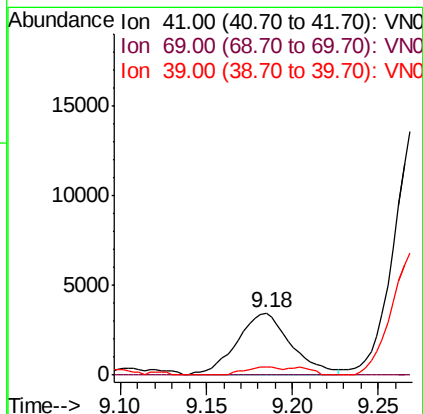
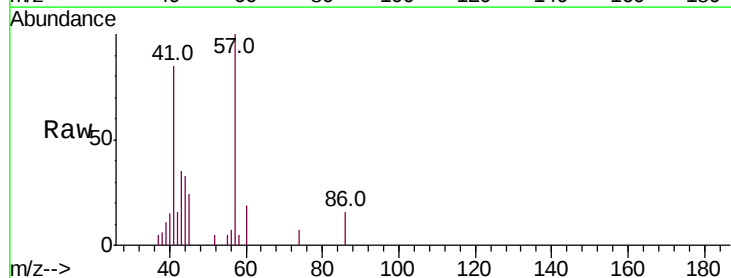
Tot Ion: 43 Resp: 327668
 Ion Ratio Lower Upper
 43 100
 61 16.5 16.2 24.2
 87 10.1 10.9 16.3#

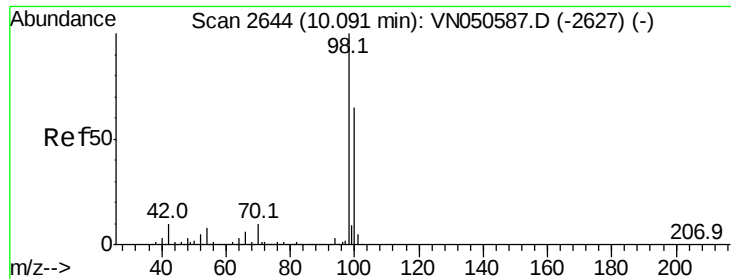


#48

Methyl methacrylate
 Concen: 1.319 ug/l
 RT: 9.18 min Scan# 2362
 Delta R.T. -0.02 min
 Lab File: VN050707.D
 Acq: 16 Aug 2018 17:35

Tgt Ion: 41 Resp: 7582
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.4 110.0#
 39 8.7 43.0 64.6#

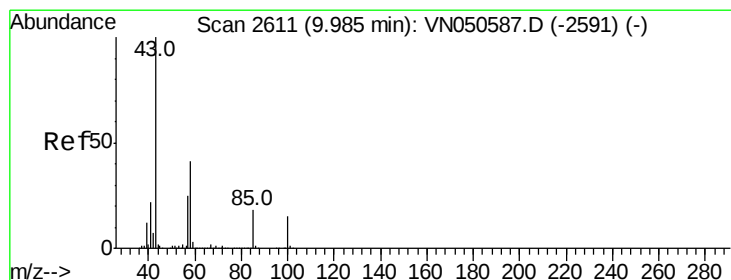
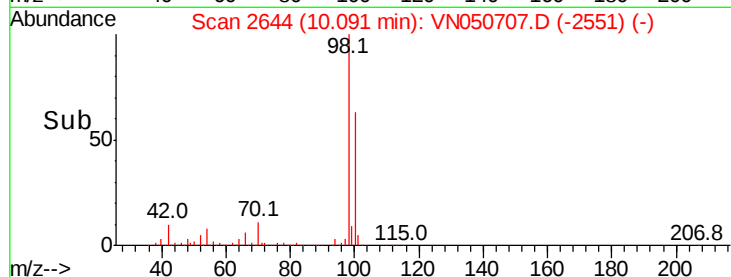
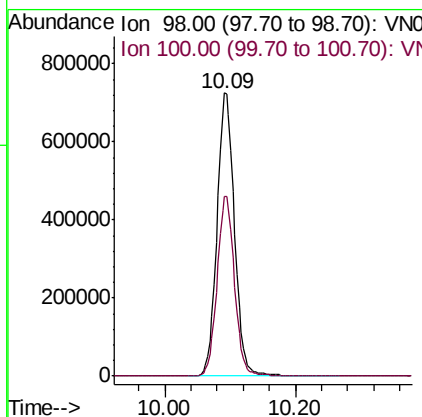
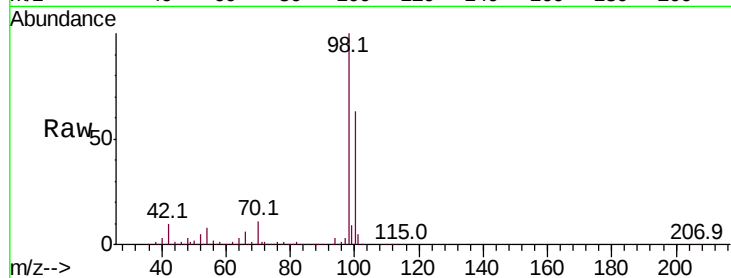




#50
Toluene-d8
Concen: 45.232 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050707.D
Acq: 16 Aug 2018 17:35

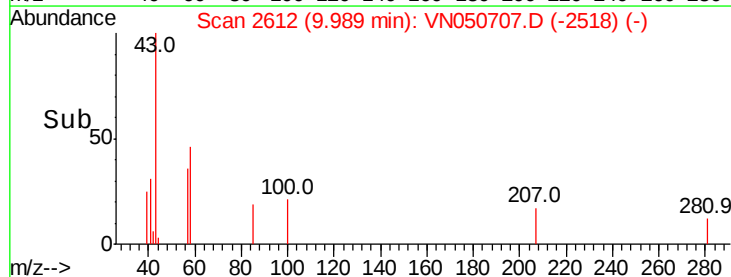
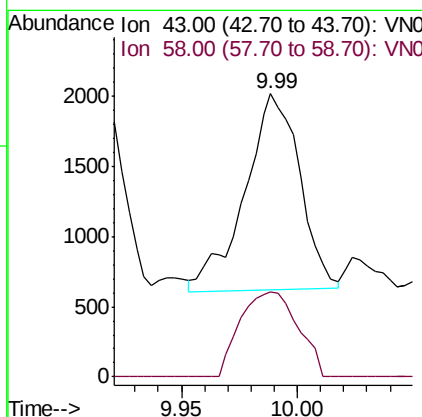
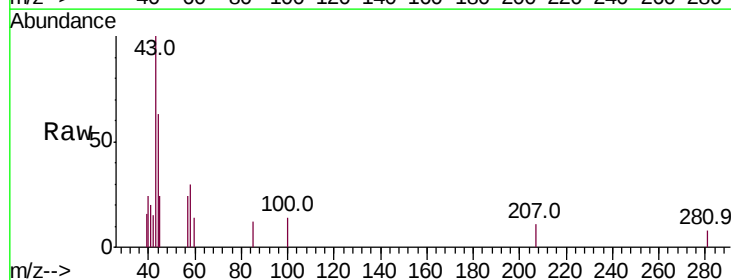
Instrument :
MSVOA_N
ClientSampled :

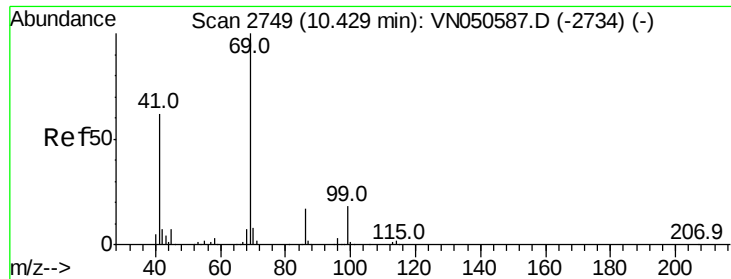
Tot Ion: 98 Resp: 1353611
Ion Ratio Lower Upper
98 100
100 63.2 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 0.299 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050707.D
Acq: 16 Aug 2018 17:35

Tgt Ion: 43 Resp: 2310
Ion Ratio Lower Upper
43 100
58 45.5 32.5 48.7





#56

Ethyl methacrylate

Concen: 2.152 ug/l

RT: 10.23 min Scan# 2687

Delta R.T. -0.20 min

Lab File: VN050707.D

Acq: 16 Aug 2018 17:35

Instrument :

MSVOA_N

ClientSampled :

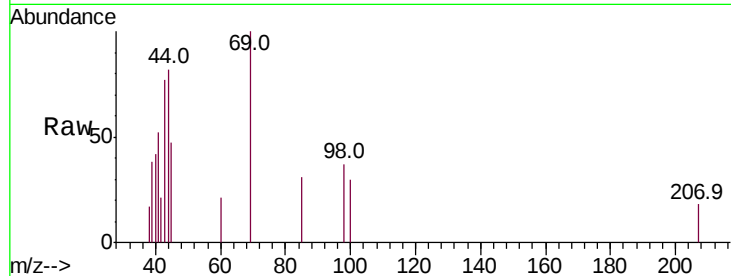
Tot Ion: 69 Resp: 2467

Ion Ratio Lower Upper

69 100

41 76.4 49.7 74.5#

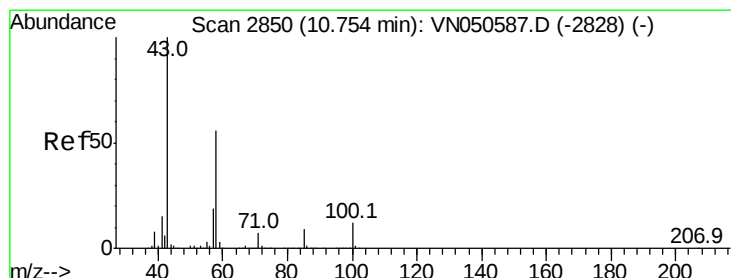
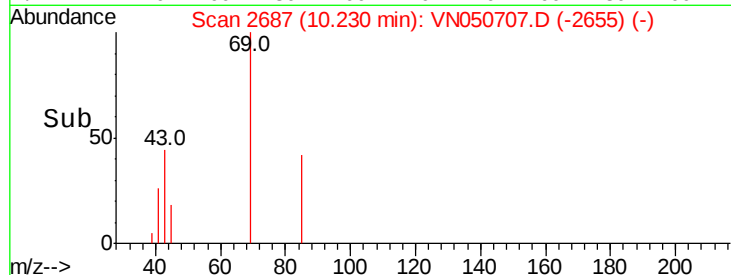
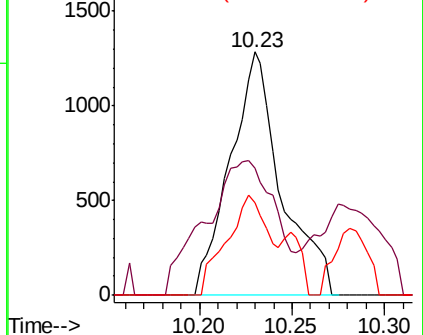
39 33.7 24.2 36.2



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: 3.843 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050707.D

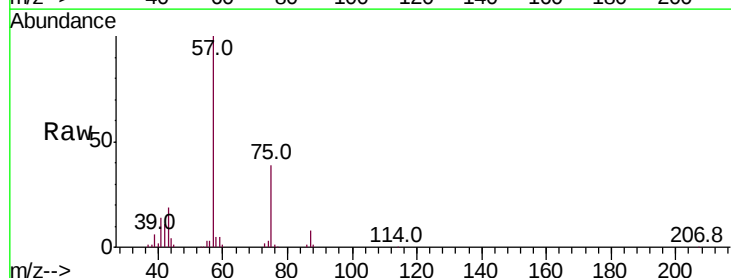
Acq: 16 Aug 2018 17:35

Tgt Ion: 43 Resp: 19160

Ion Ratio Lower Upper

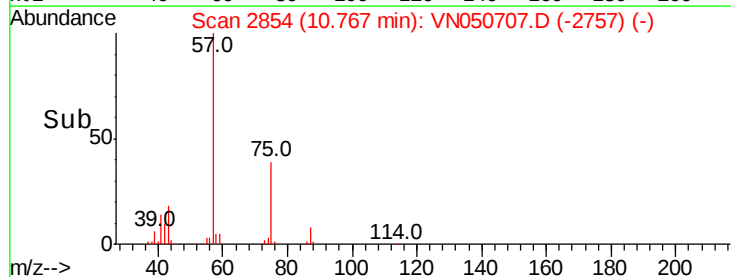
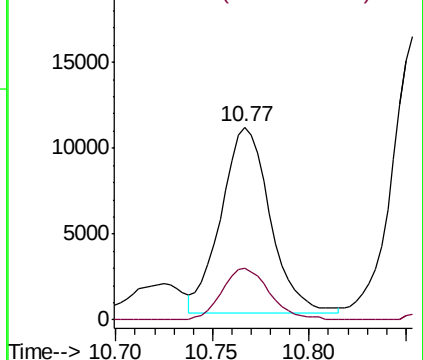
43 100

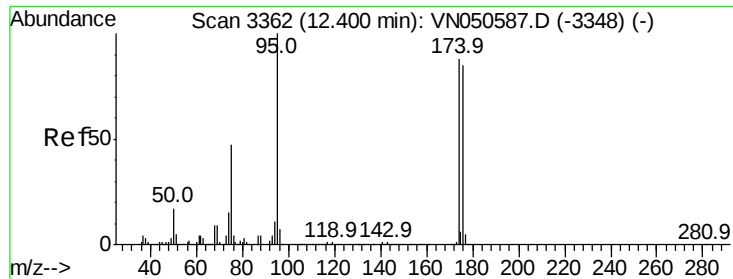
58 26.8 28.0 84.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

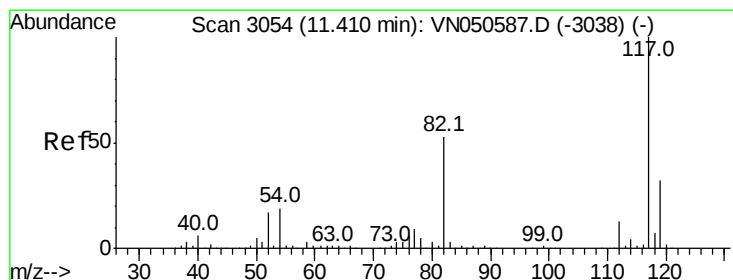
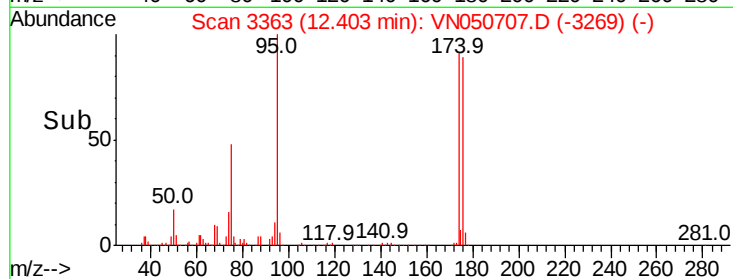
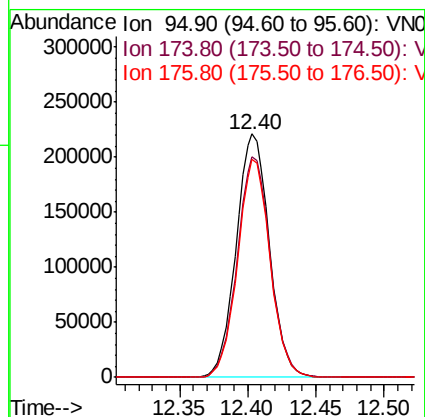
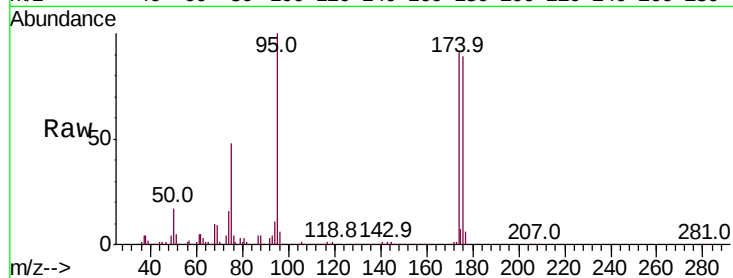




#62
4-Bromofluorobenzene
Concen: 37.732 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050707.D
Acq: 16 Aug 2018 17:35

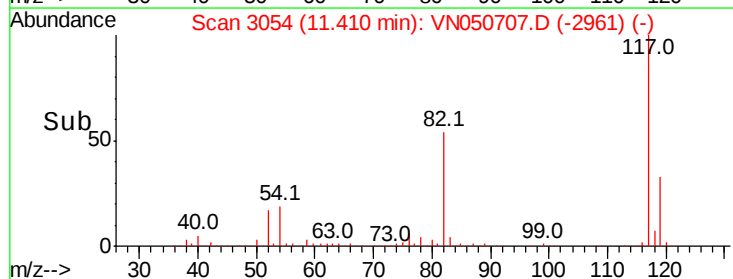
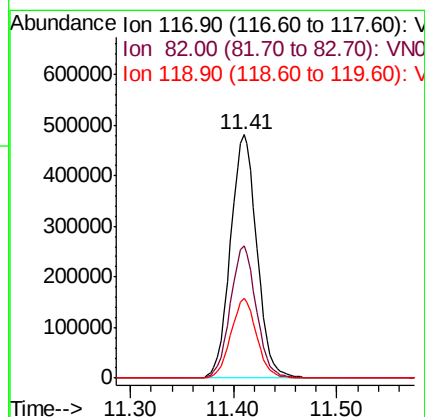
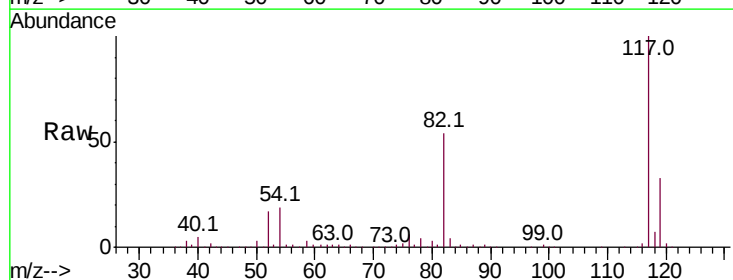
Instrument :
MSVOA_N
ClientSampleId :

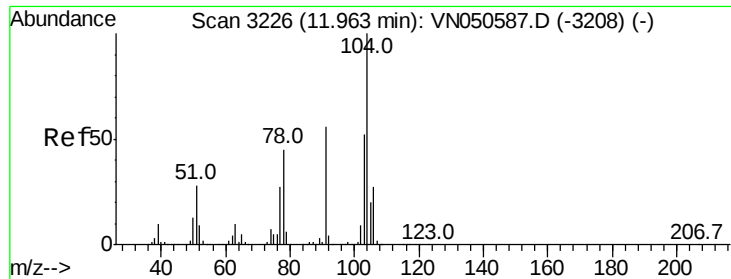
Tot Ion: 95 Resp: 373029
Ion Ratio Lower Upper
95 100
174 90.2 0.0 177.8
176 87.6 0.0 175.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050707.D
Acq: 16 Aug 2018 17:35

Tgt Ion: 117 Resp: 857245
Ion Ratio Lower Upper
117 100
82 54.3 42.4 63.6
119 32.5 25.8 38.8





#70

Stvrene

Concen: 0.945 ug/l

RT: 11.97 min Scan# 3228

Delta R.T. 0.01 min

Lab File: VN050707.D

Acq: 16 Aug 2018 17:35

Instrument :

MSVOA_N

ClientSampled :

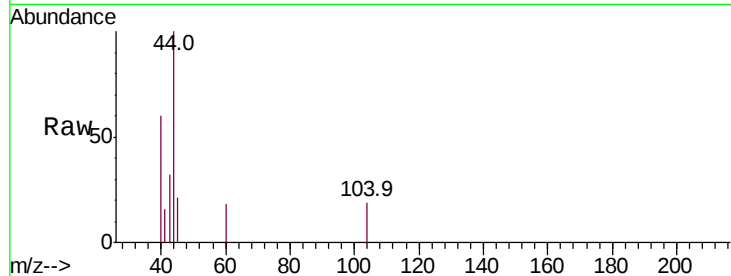
Tot Ion:104 Resp: 99

Ion Ratio Lower Upper

104 100

78 0.0 39.1 58.7#

103 0.0 44.9 67.3#



Abundance Ion 104.00 (103.70 to 104.70): V

250 Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V

200

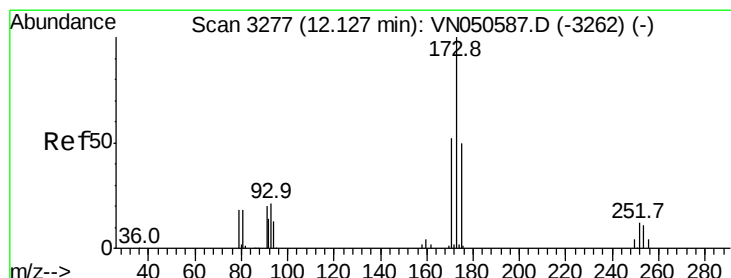
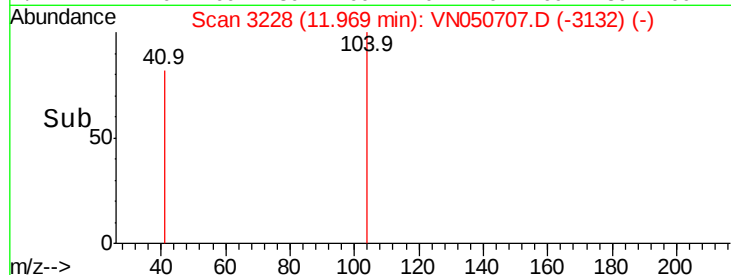
150

100

50

0

Time--> 11.95 11.96 11.97 11.98



#71

Bromoform

Concen: 0.430 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050707.D

Acq: 16 Aug 2018 17:35

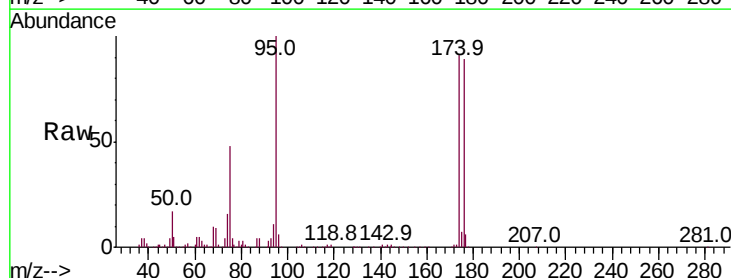
Tgt Ion:173 Resp: 2283

Ion Ratio Lower Upper

173 100

175 887.1 24.4 73.2#

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

20000

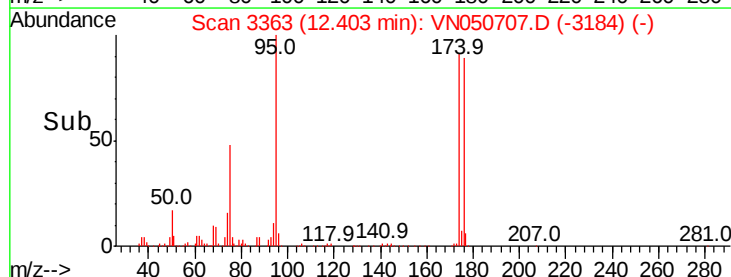
15000

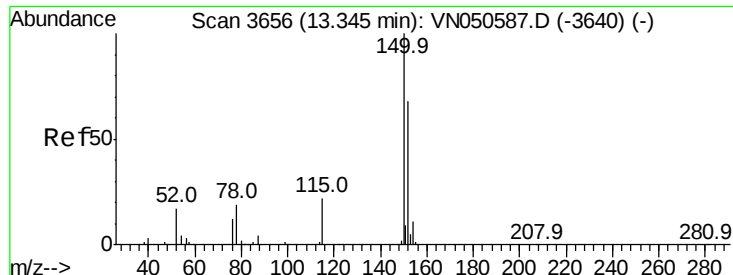
10000

5000

0

Time--> 12.36 12.38 12.40 12.42





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050707.D

Acq: 16 Aug 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

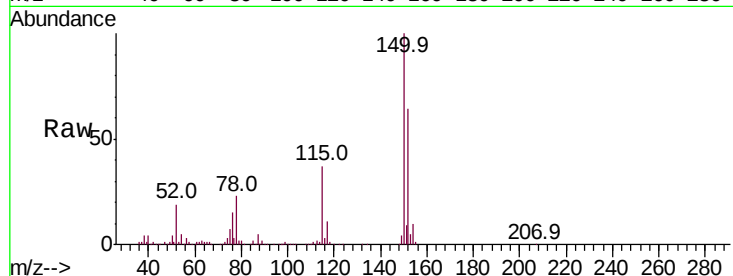
Tot Ion:152 Resp: 306130

Ion Ratio Lower Upper

152 100

115 56.4 28.1 84.2

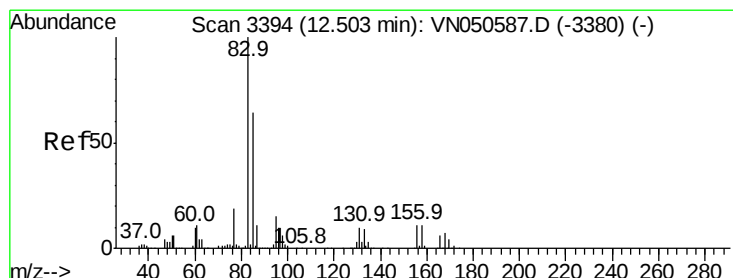
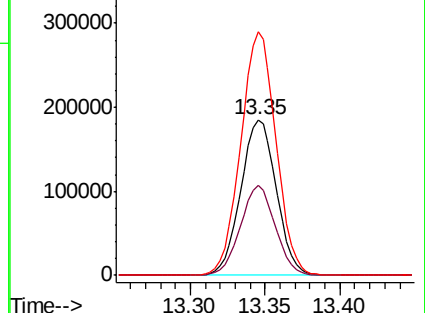
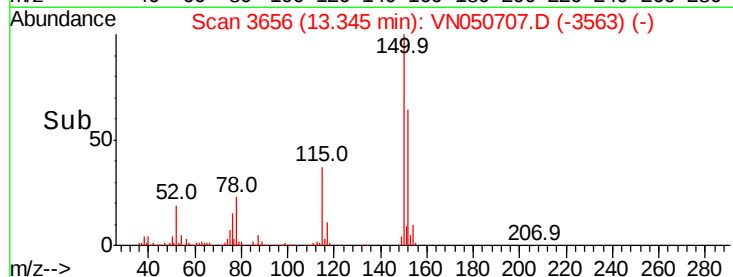
150 155.0 0.0 347.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3364

Delta R.T. -0.10 min

Lab File: VN050707.D

Acq: 16 Aug 2018 17:35

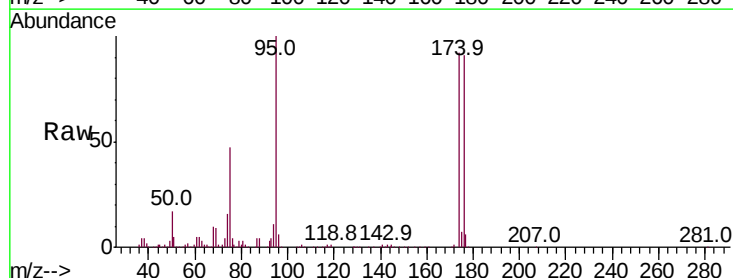
Tgt Ion: 83 Resp: 200

Ion Ratio Lower Upper

83 100

131 222.0 5.3 15.9#

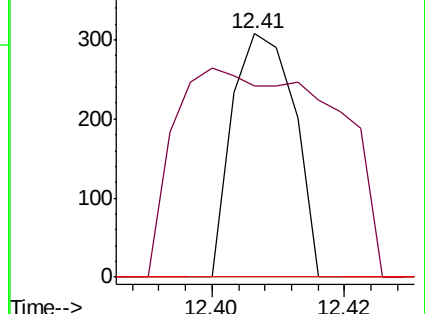
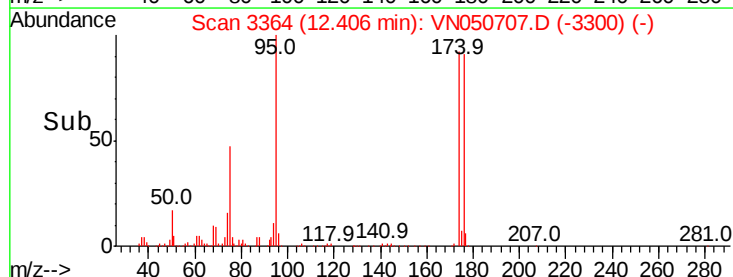
85 0.0 32.1 96.5#

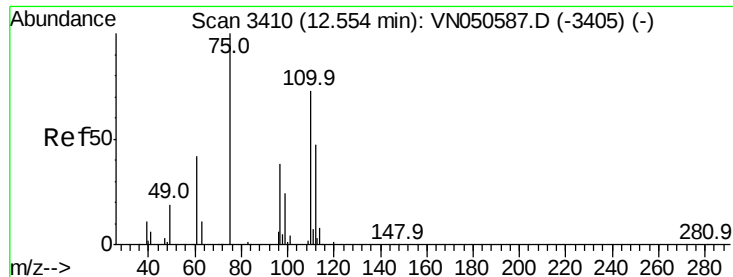


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 35.648 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050707.D

Acq: 16 Aug 2018 17:35

Instrument :

MSVOA_N

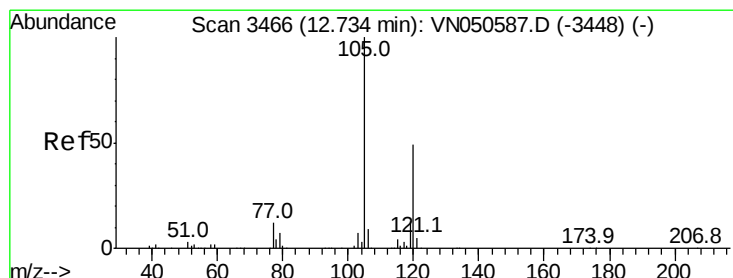
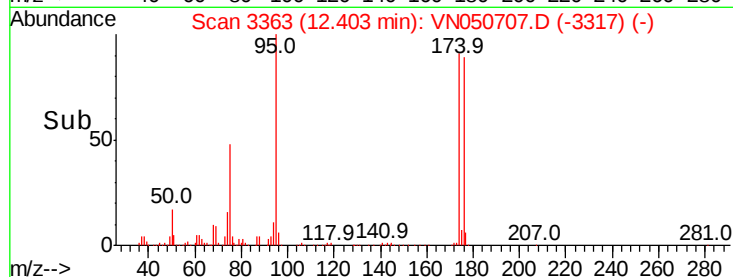
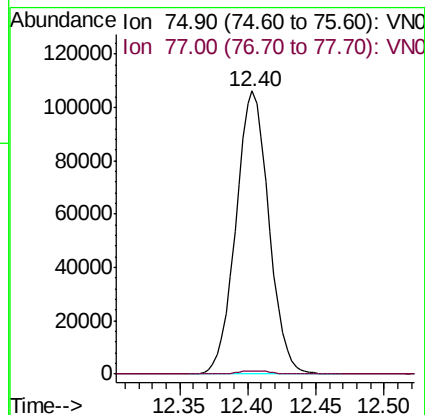
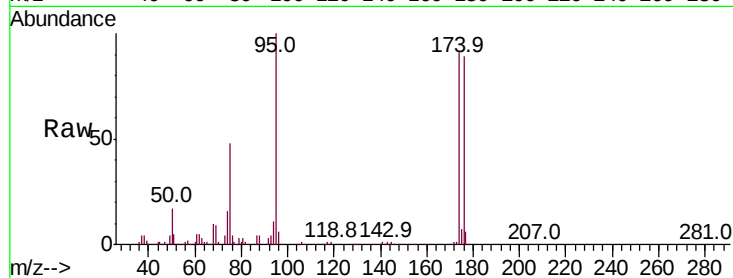
ClientSampled :

Tot Ion: 75 Resp: 177772

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.226 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050707.D

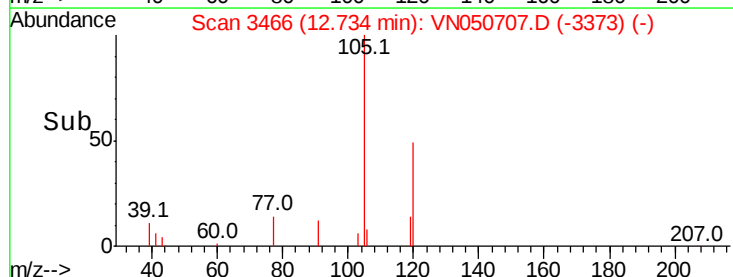
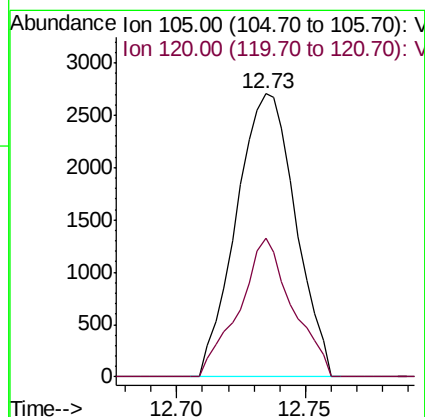
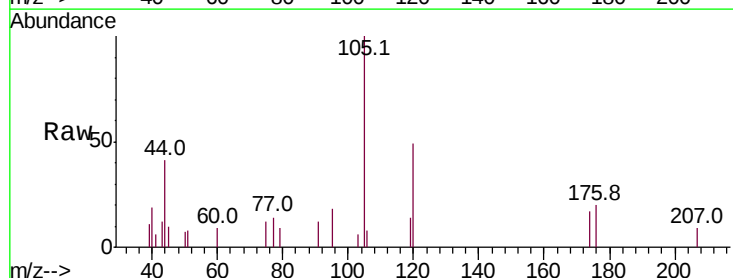
Acq: 16 Aug 2018 17:35

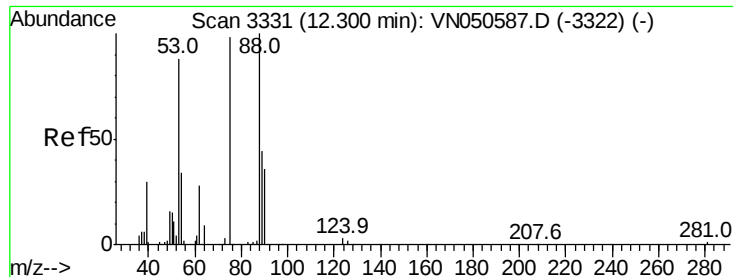
Tgt Ion: 105 Resp: 4335

Ion Ratio Lower Upper

105 100

120 43.9 24.7 74.1





#81

trans-1,4-Dichloro-2-butene

Concen: 129.103 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050707.D

Acq: 16 Aug 2018 17:35

Instrument :

MSVOA_N

ClientSampleId :

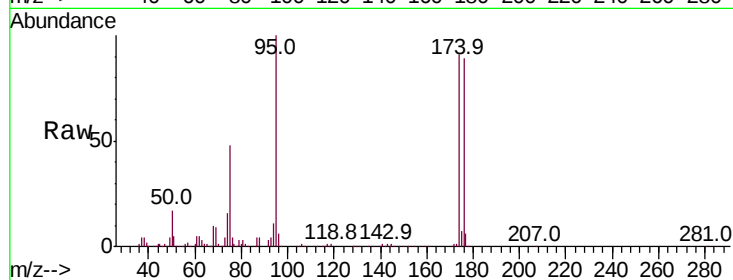
Tot Ion: 75 Resp: 177772

Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

