

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081618\
 Data File : VN050702.D
 Acq On : 16 Aug 2018 15:31
 Operator : MD\SY
 Sample : PB112098ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 17 04:31:36 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	628563	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1070390	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	921388	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	328618	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	440891	55.65	ug/l	0.00
Spiked Amount			Recovery	=	111.30%	
35) Dibromofluoromethane	7.60	113	399271	46.72	ug/l	0.00
Spiked Amount			Recovery	=	93.44%	
50) Toluene-d8	10.09	98	1449726	45.08	ug/l	0.00
Spiked Amount			Recovery	=	90.16%	
62) 4-Bromofluorobenzene	12.40	95	404418	38.06	ug/l	0.00
Spiked Amount			Recovery	=	76.12%	

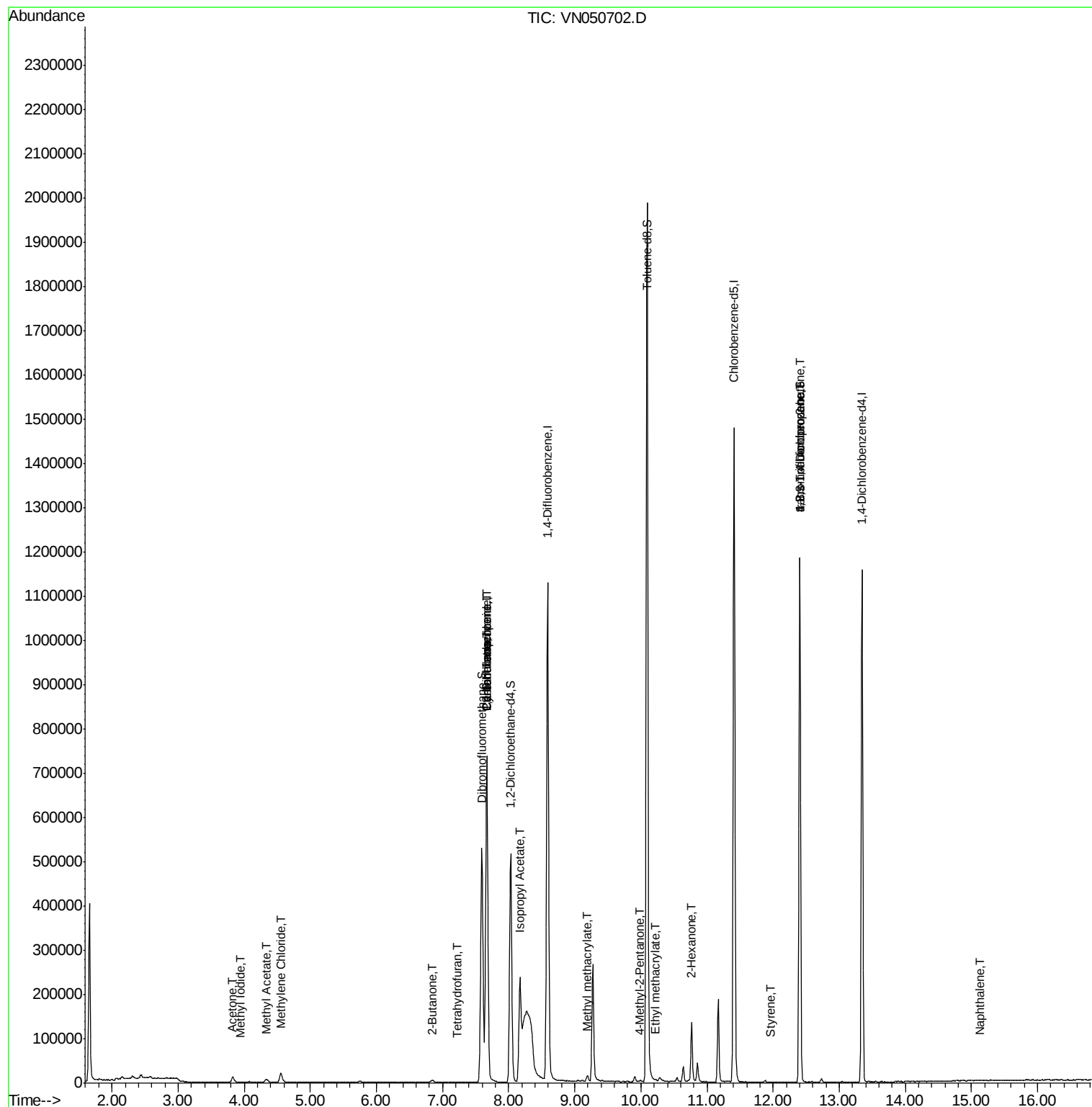
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2376	Below Cal		99
5) Bromomethane	2.56	94	2626	Below Cal	#	75
6) Chloroethane	2.72	64	161	Below Cal	#	43
10) Methyl Iodide	3.96	142	473	7.025	ug/l #	42
16) Acetone	3.83	43	21018	9.228	ug/l	99
18) Methyl Acetate	4.34	43	14940	1.724	ug/l	95
20) Methylene Chloride	4.55	84	16689	0.969	ug/l	96
25) 2-Butanone	6.85	43	4434	1.365	ug/l	91
29) Tetrahydrofuran	7.23	42	543	0.320	ug/l #	33
31) Cyclohexane	7.66	56	11231	0.593	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43959	3.689	ug/l #	48
38) Carbon Tetrachloride	7.67	117	57248	4.631	ug/l #	16
43) Isopropyl Acetate	8.17	43	297705	24.254	ug/l	94
48) Methyl methacrylate	9.18	41	7474	1.210	ug/l #	20
51) 4-Methyl-2-Pentanone	9.99	43	1912	0.230	ug/l	88
56) Ethyl methacrylate	10.23	69	2243	2.114	ug/l #	67
59) 2-Hexanone	10.77	43	17826	3.327	ug/l #	59
70) Styrene	11.97	104	207	0.949	ug/l #	26
75) 1,1,2,2-Tetrachloroethane	12.40	83	113	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	189853	35.459	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	189853	128.442	ug/l #	13
95) Naphthalene	15.14	128	273	3.881	ug/l #	69

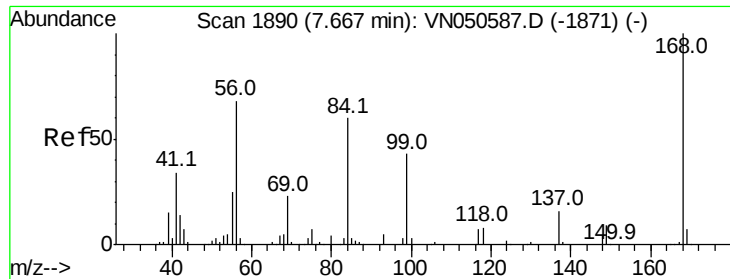
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 17 04:31:36 2018
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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: VN050702.D

Acq: 16 Aug 2018 15:31

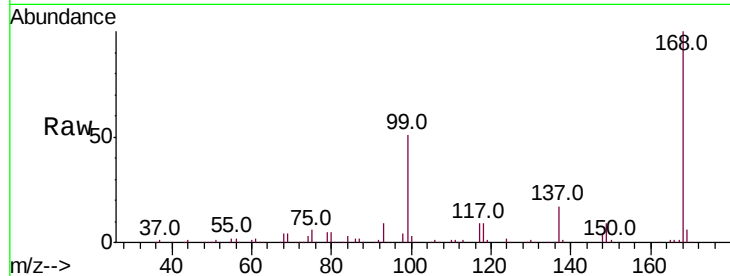
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 628563

Ion Ratio Lower Upper

168 100

99 50.8 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

300000

250000

200000

150000

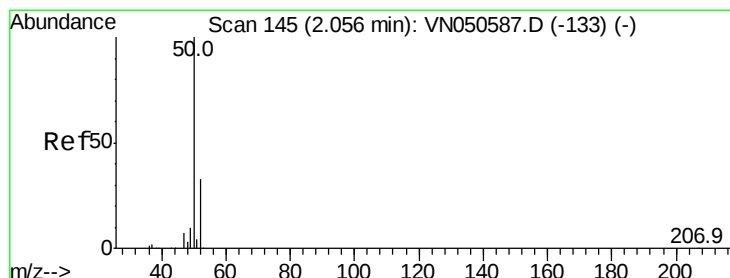
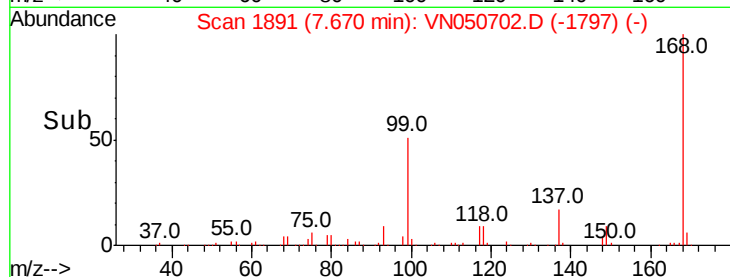
100000

50000

0

Time-->

7.60 7.70 7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN050702.D

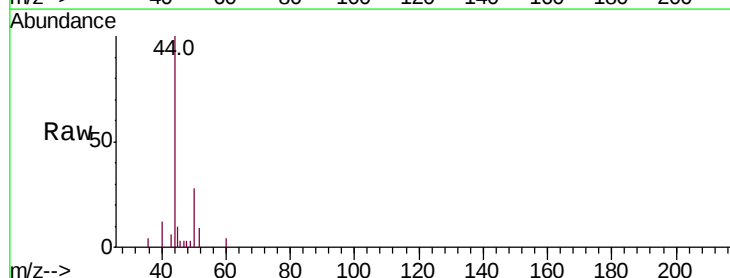
Acq: 16 Aug 2018 15:31

Tgt Ion: 50 Resp: 2376

Ion Ratio Lower Upper

50 100

52 33.1 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

1500

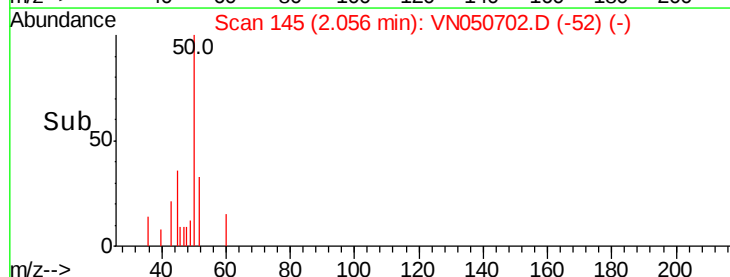
1000

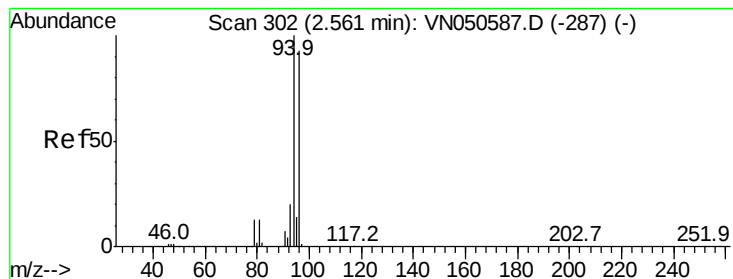
500

0

Time-->

2.05 2.10





#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050702.D

Acq: 16 Aug 2018 15:31

Instrument :

MSVOA_N

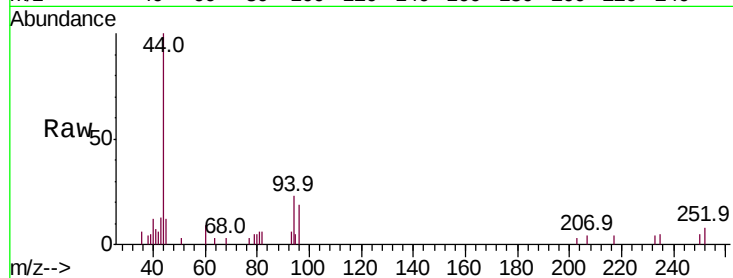
ClientSampled :

Tot Ion: 94 Resp: 2626

Ion Ratio Lower Upper

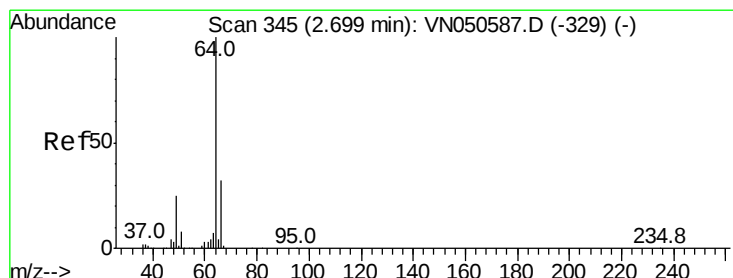
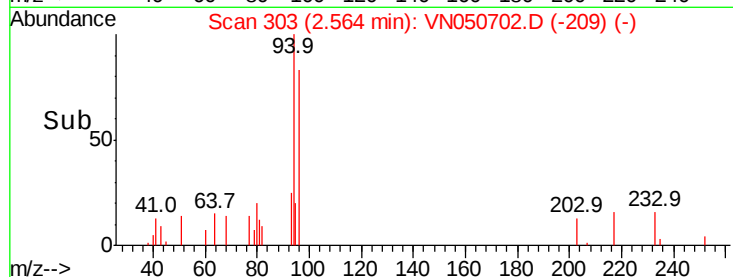
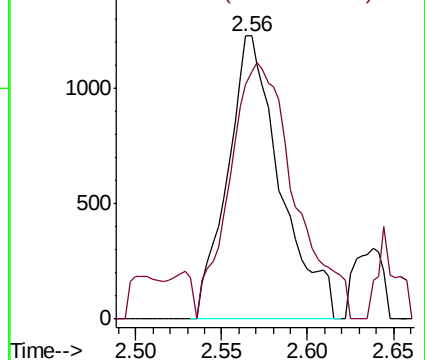
94 100

96 68.2 74.0 111.0#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.72 min Scan# 351

Delta R.T. 0.02 min

Lab File: VN050702.D

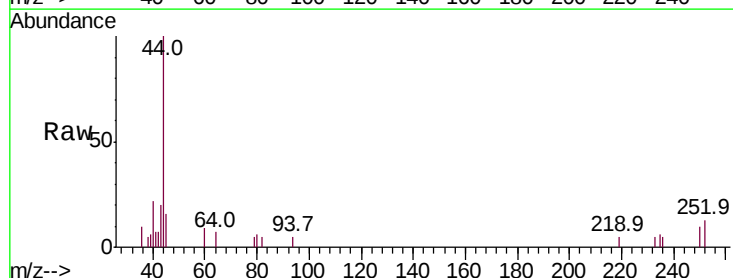
Acq: 16 Aug 2018 15:31

Tgt Ion: 64 Resp: 161

Ion Ratio Lower Upper

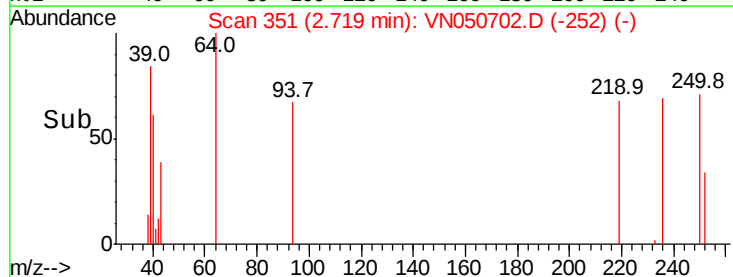
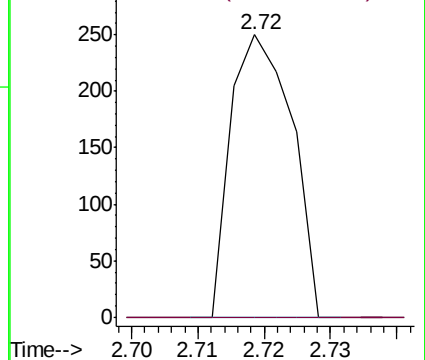
64 100

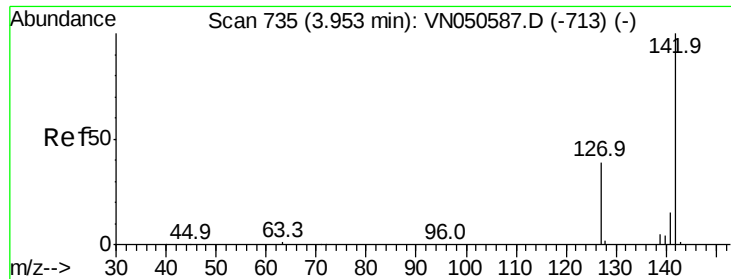
66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

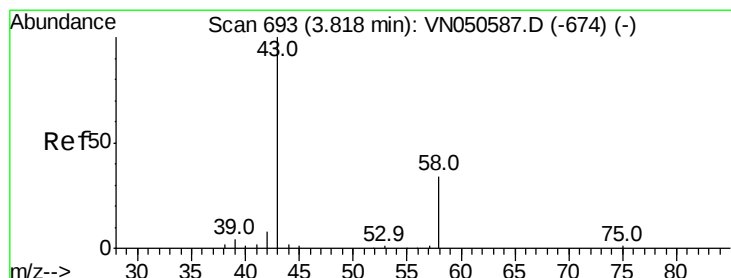
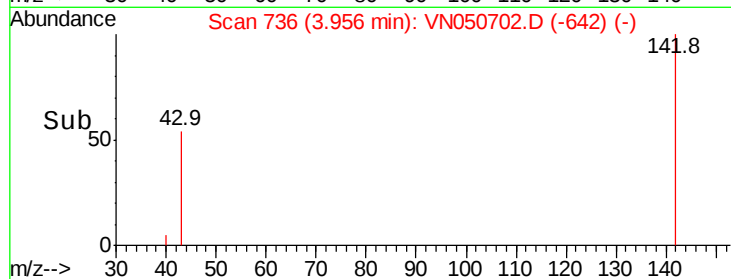
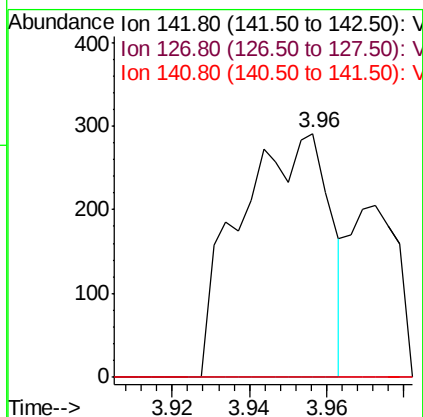
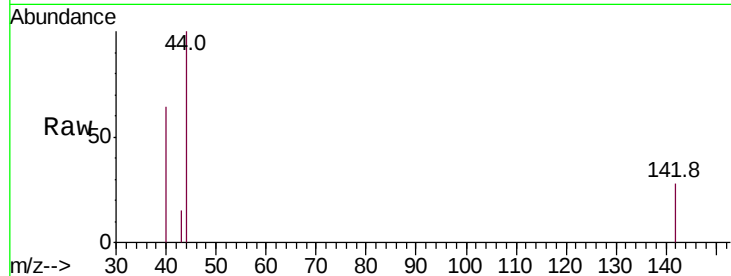




#10
Methvl Iodide
Concen: 7.025 ug/l
RT: 3.96 min Scan# 736
Delta R.T. 0.00 min
Lab File: VN050702.D
Acq: 16 Aug 2018 15:31

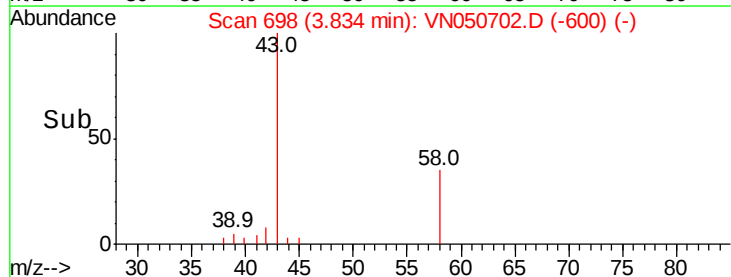
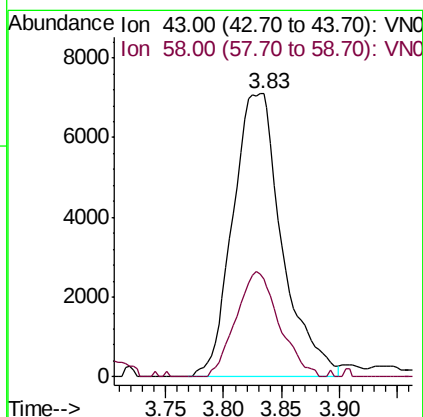
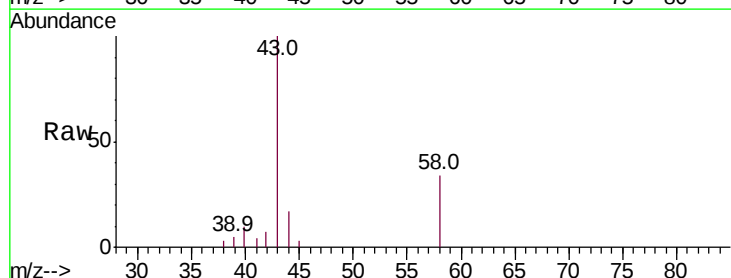
Instrument :
MSVOA_N
ClientSampleId :

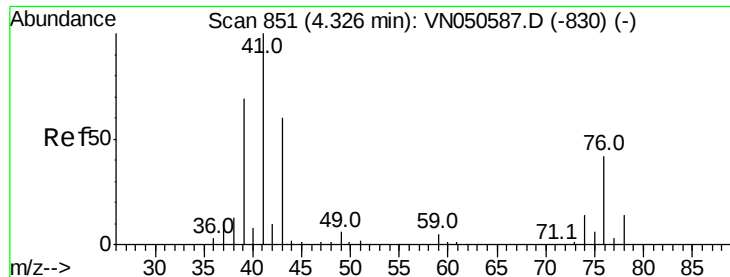
Tot Ion:142 Resp: 473
Ion Ratio Lower Upper
142 100
127 0.0 32.6 49.0#
141 0.0 11.5 17.3#



#16
Acetone
Concen: 9.228 ug/l
RT: 3.83 min Scan# 698
Delta R.T. 0.02 min
Lab File: VN050702.D
Acq: 16 Aug 2018 15:31

Tgt Ion: 43 Resp: 21018
Ion Ratio Lower Upper
43 100
58 34.4 27.1 40.7

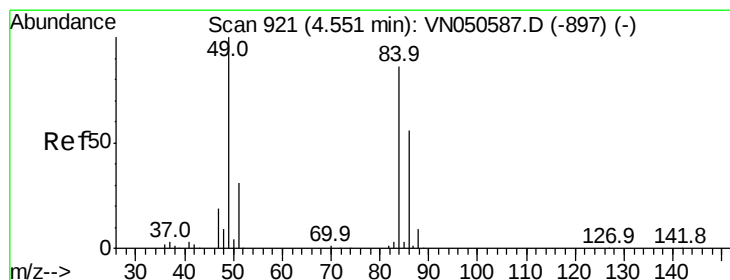
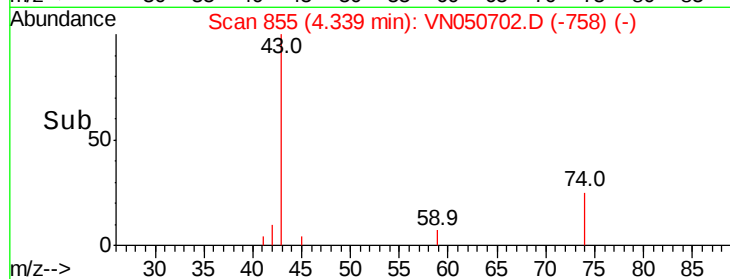
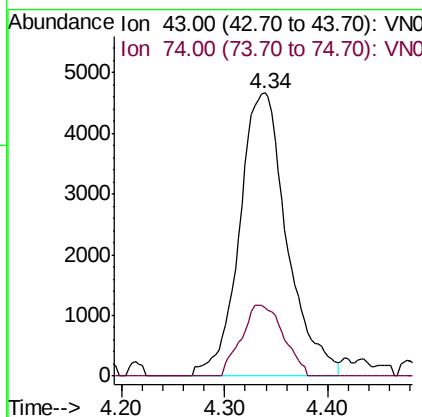
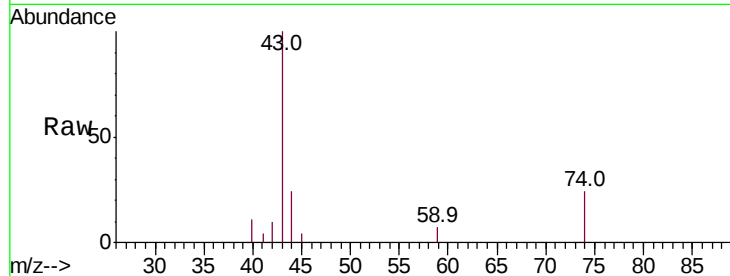




#18
Methvl Acetate
Concen: 1.724 ug/l
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN050702.D
Acq: 16 Aug 2018 15:31

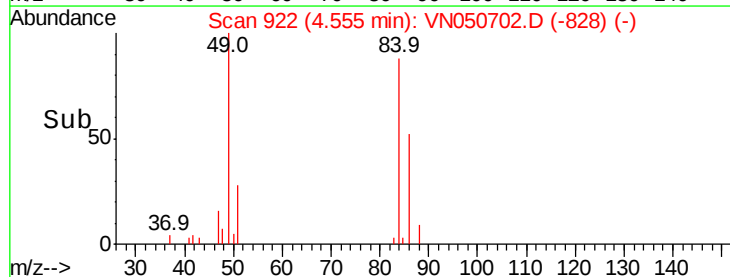
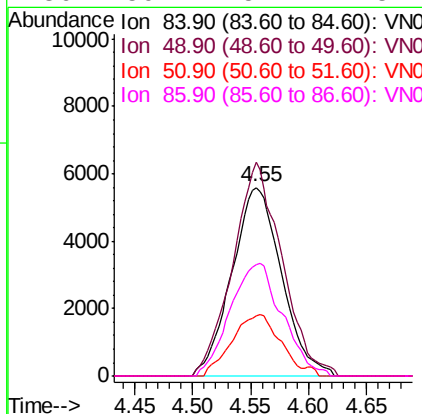
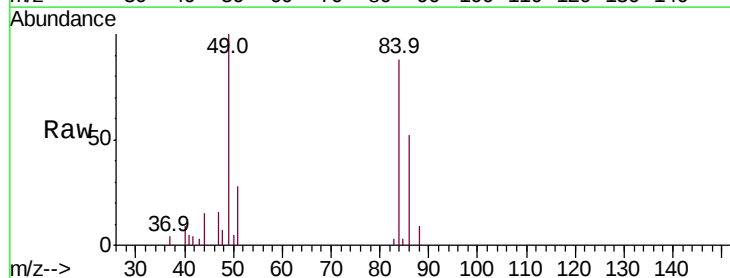
Instrument :
MSVOA_N
ClientSampled :

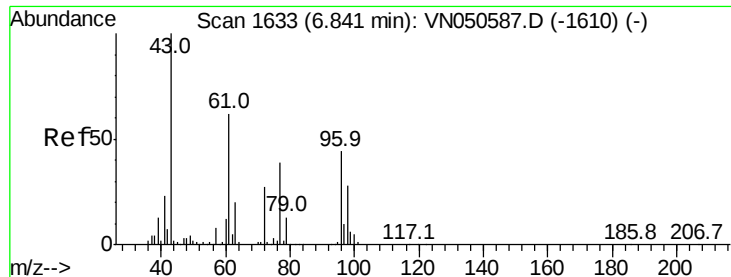
Tot Ion: 43 Resp: 14940
Ion Ratio Lower Upper
43 100
74 22.2 19.7 29.5



#20
Methylene Chloride
Concen: 0.969 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050702.D
Acq: 16 Aug 2018 15:31

Tgt Ion: 84 Resp: 16689
Ion Ratio Lower Upper
84 100
49 113.5 92.6 138.8
51 32.2 28.6 43.0
86 59.1 52.2 78.2

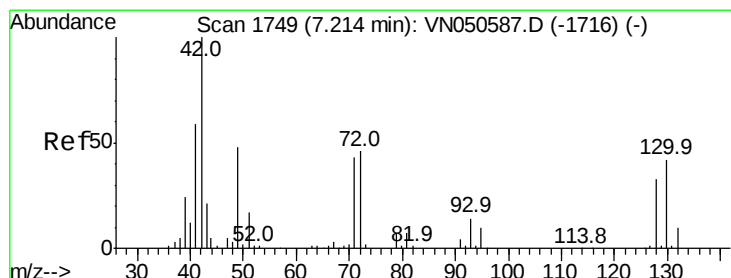
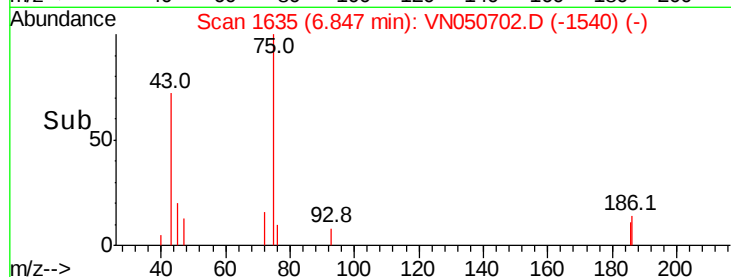
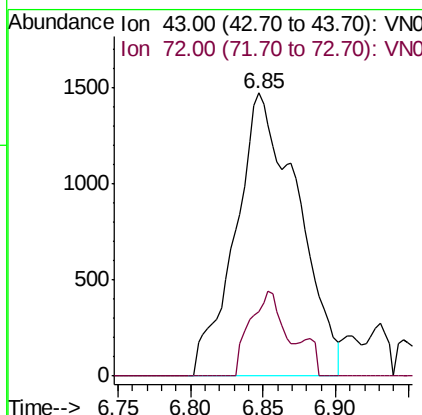
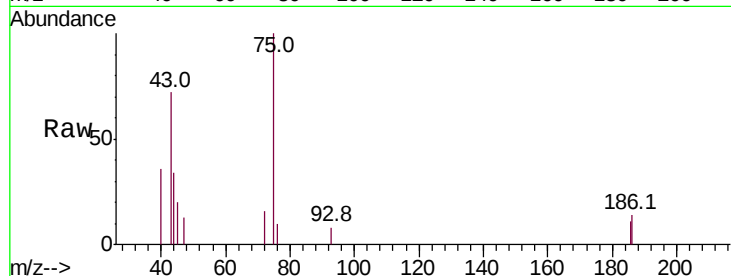




#25
 2-Butanone
 Concen: 1.365 ug/l
 RT: 6.85 min Scan# 1635
 Delta R.T. 0.01 min
 Lab File: VN050702.D
 Acq: 16 Aug 2018 15:31

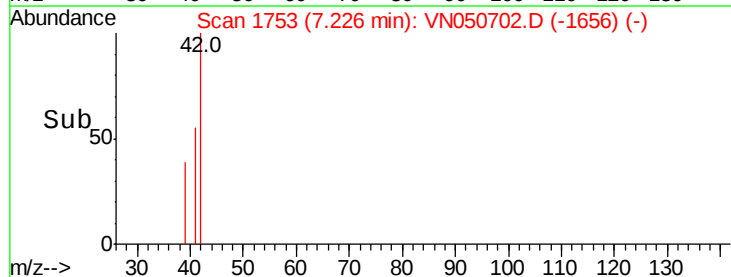
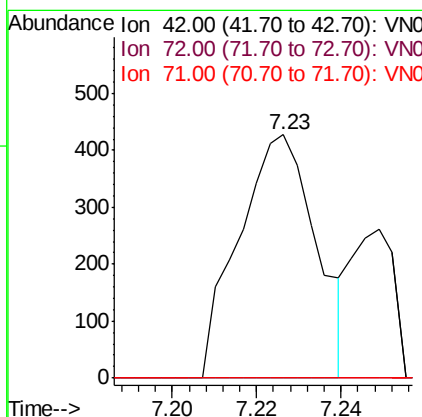
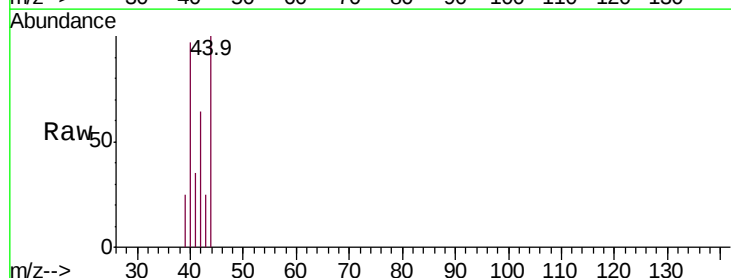
Instrument :
 MSVOA_N
 ClientSampleId :

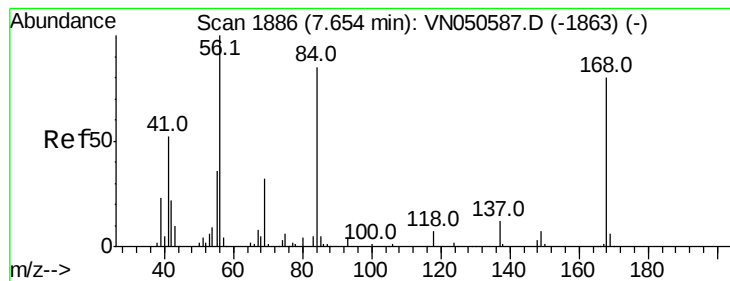
Tot Ion: 43 Resp: 4434
 Ion Ratio Lower Upper
 43 100
 72 22.7 21.8 32.6



#29
 Tetrahydrofuran
 Concen: 0.320 ug/l
 RT: 7.23 min Scan# 1753
 Delta R.T. 0.01 min
 Lab File: VN050702.D
 Acq: 16 Aug 2018 15:31

Tgt Ion: 42 Resp: 543
 Ion Ratio Lower Upper
 42 100
 72 0.0 35.8 53.6#
 71 0.0 33.4 50.0#





#31

Cyclohexane

Concen: 0.593 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. 0.01 min

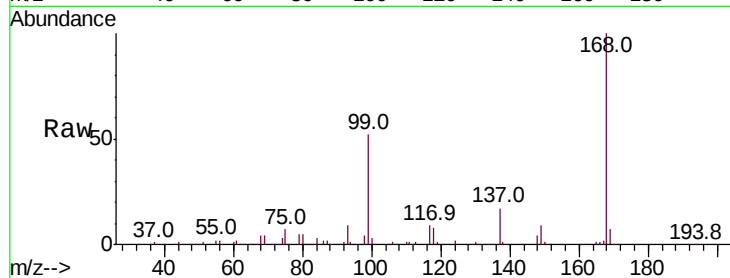
Lab File: VN050702.D

Acq: 16 Aug 2018 15:31

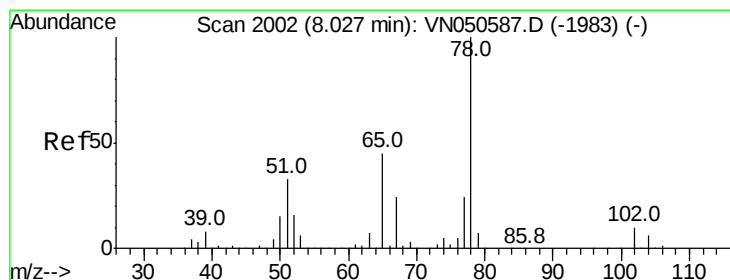
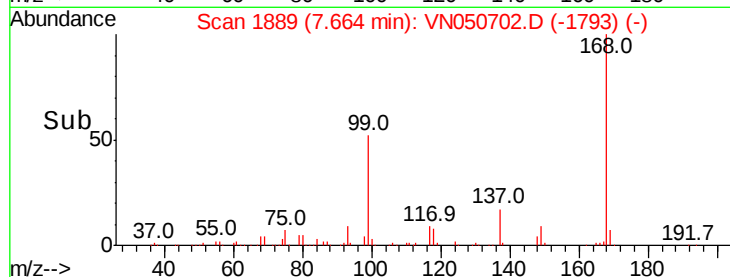
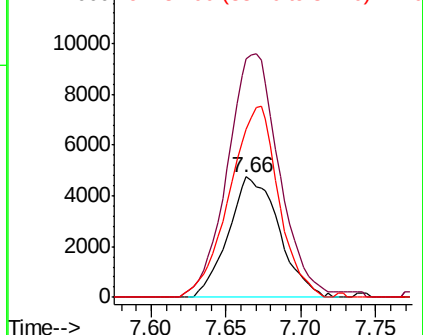
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 11231

Ion	Ratio	Lower	Upper
56	100		
69	193.0	25.8	38.6#
84	136.6	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: 55.646 ug/l

RT: 8.03 min Scan# 2003

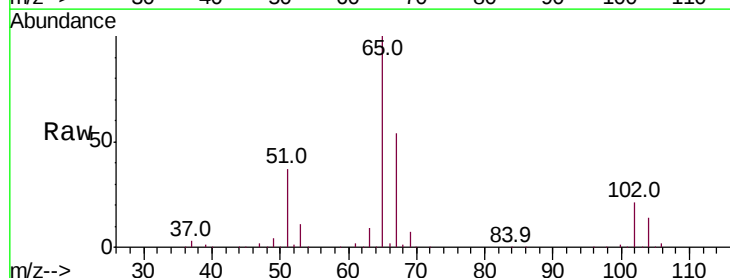
Delta R.T. 0.00 min

Lab File: VN050702.D

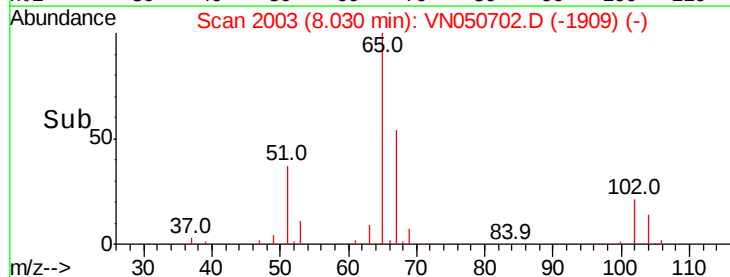
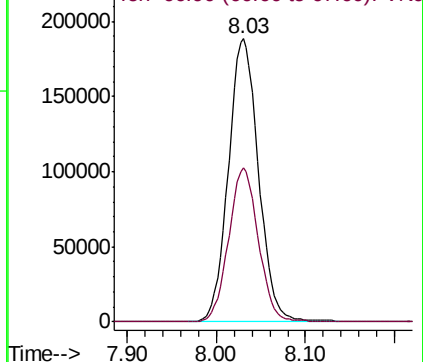
Acq: 16 Aug 2018 15:31

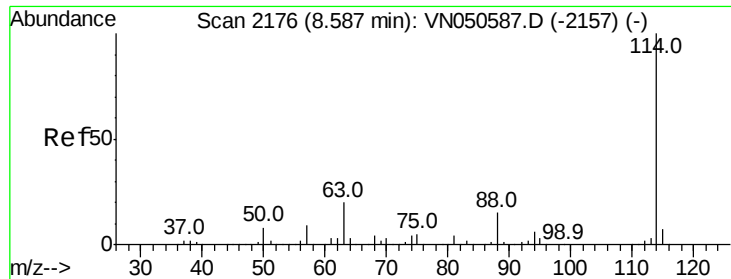
Tgt Ion: 65 Resp: 440891

Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	109.8



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

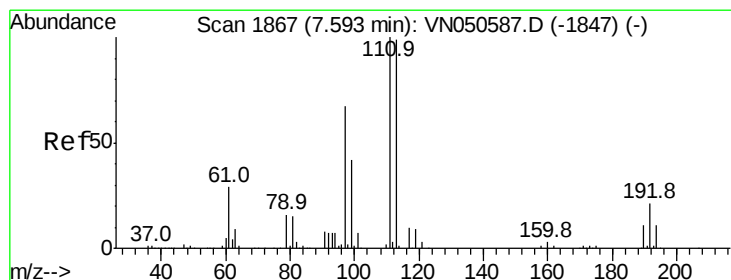
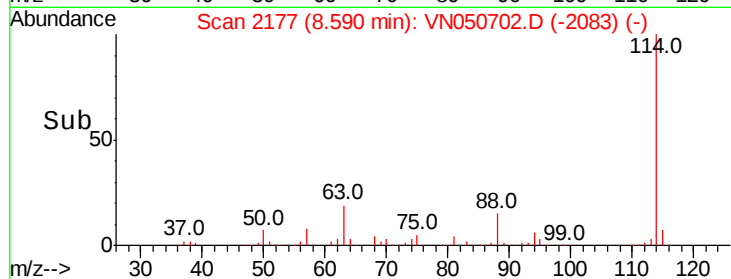
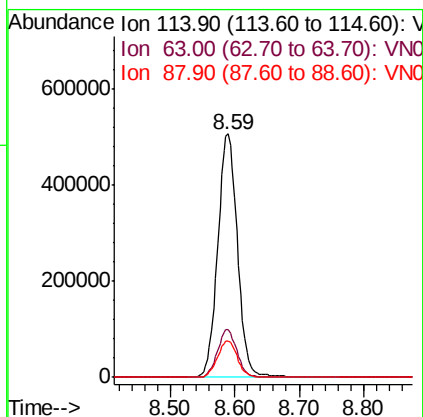
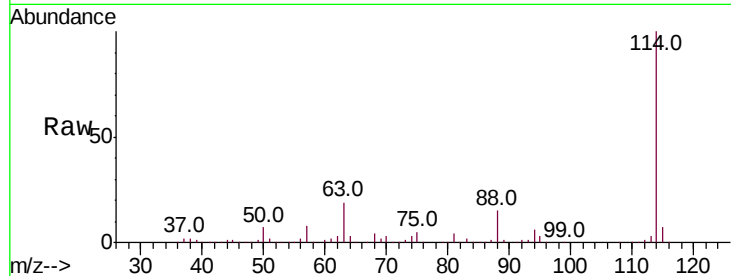




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050702.D
 Acq: 16 Aug 2018 15:31

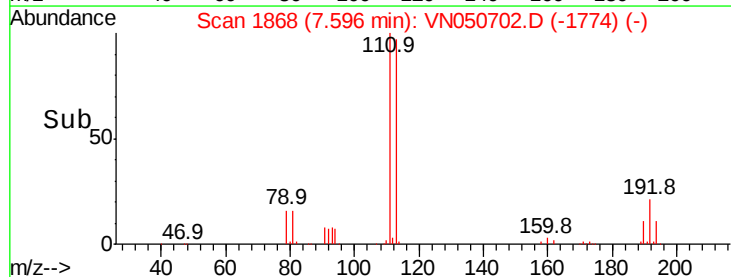
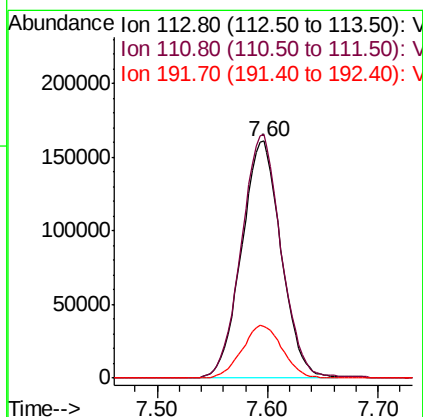
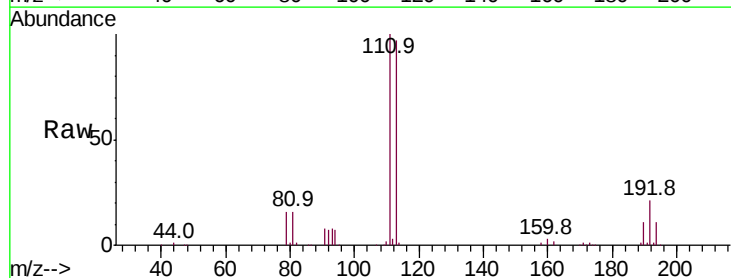
Instrument :
 MSVOA_N
 ClientSampleId :

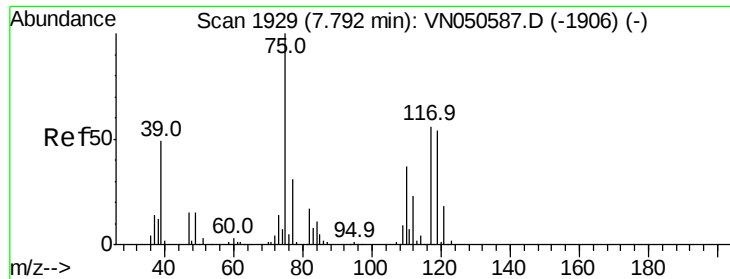
Tot Ion:114 Resp: 1070390
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.0
 88 15.0 0.0 30.8



#35
 Dibromofluoromethane
 Concen: 46.722 ug/l
 RT: 7.60 min Scan# 1868
 Delta R.T. 0.00 min
 Lab File: VN050702.D
 Acq: 16 Aug 2018 15:31

Tgt Ion:113 Resp: 399271
 Ion Ratio Lower Upper
 113 100
 111 103.8 81.0 121.6
 192 22.8 17.6 26.4

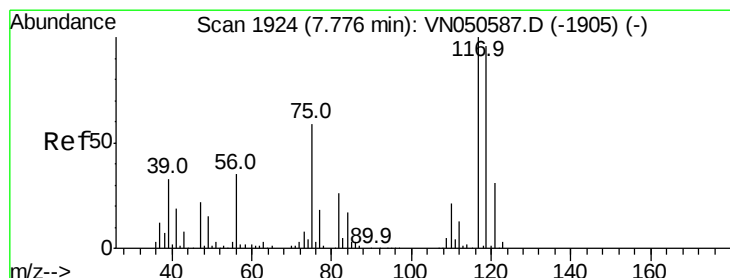
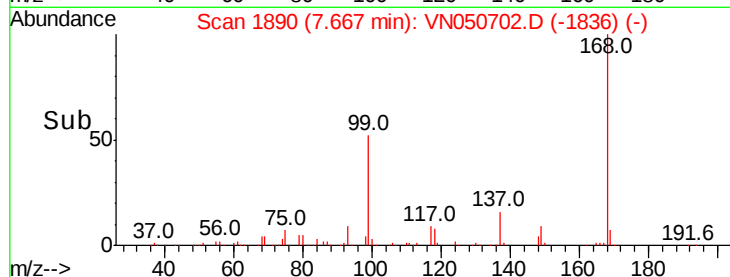
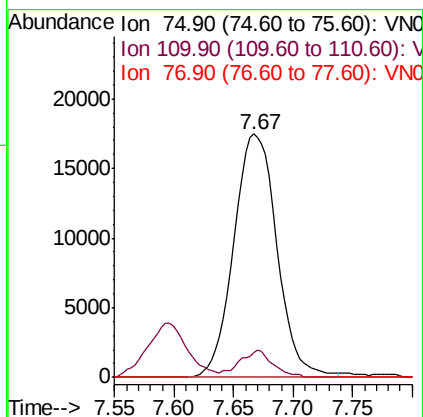
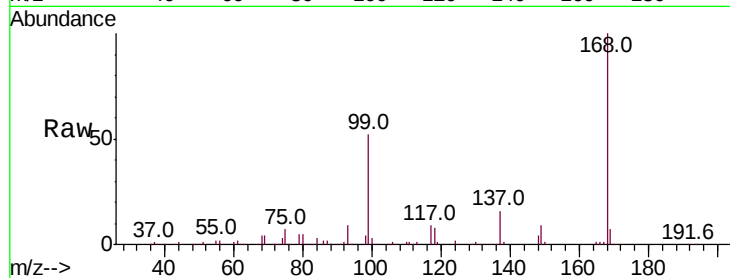




#36
 1,1-Dichloropropene
 Concen: 3.689 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050702.D
 Acq: 16 Aug 2018 15:31

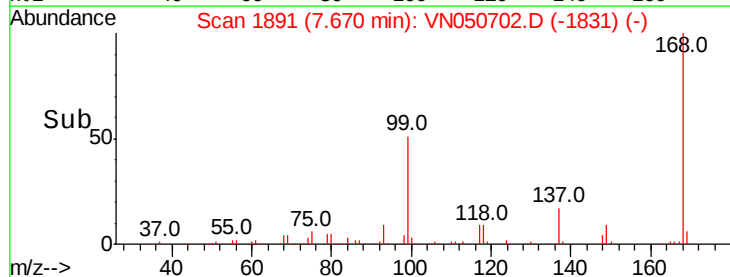
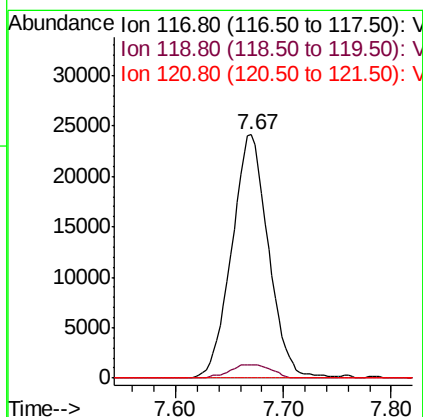
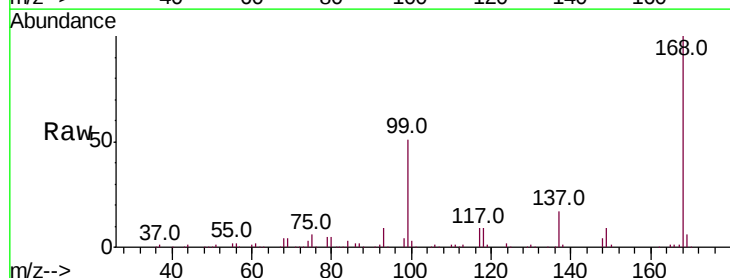
Instrument :
 MSVOA_N
 ClientSampled :

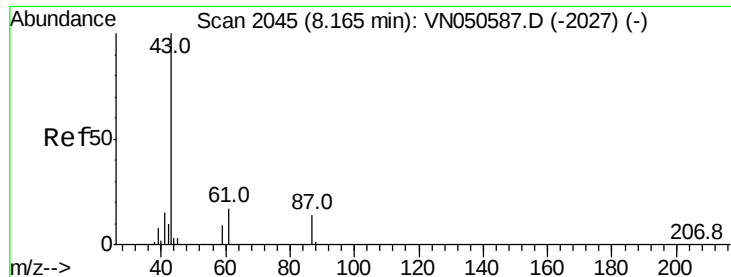
Tot Ion: 75 Resp: 43959
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.3 54.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 4.631 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050702.D
 Acq: 16 Aug 2018 15:31

Tgt Ion: 117 Resp: 57248
 Ion Ratio Lower Upper
 117 100
 119 5.7 76.6 115.0#
 121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 24.254 ug/l

RT: 8.17 min Scan# 2047

Delta R.T. 0.01 min

Lab File: VN050702.D

Acq: 16 Aug 2018 15:31

Instrument :

MSVOA_N

ClientSampled :

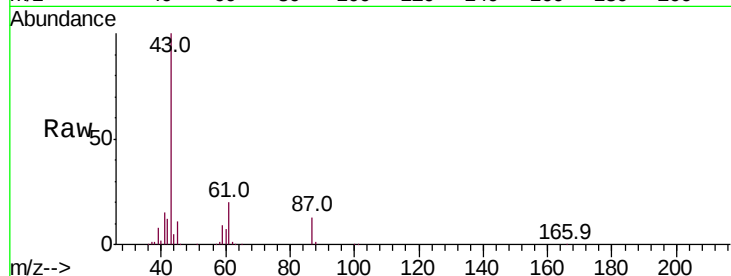
Tot Ion: 43 Resp: 297705

Ion Ratio Lower Upper

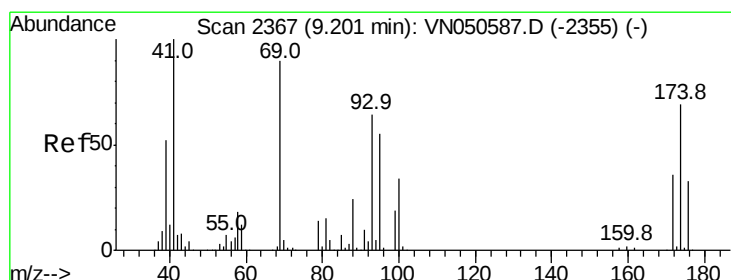
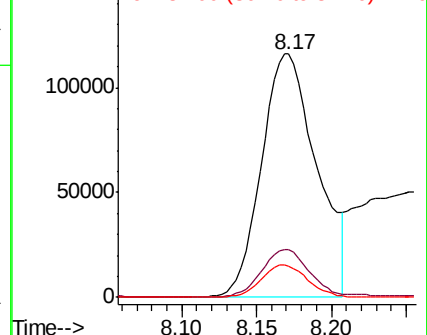
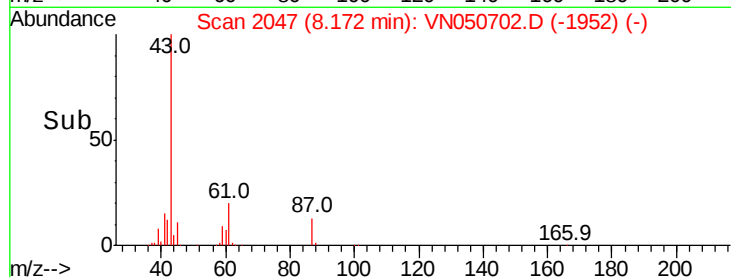
43 100

61 17.6 16.2 24.2

87 11.4 10.9 16.3



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: 1.210 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050702.D

Acq: 16 Aug 2018 15:31

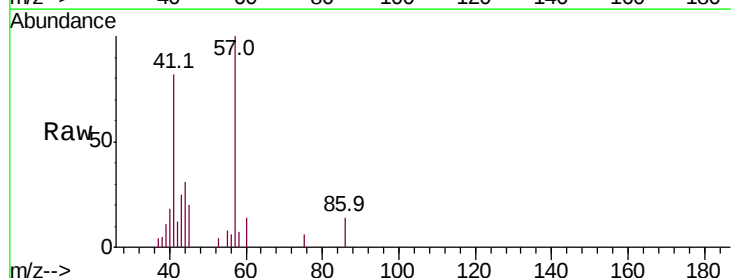
Tgt Ion: 41 Resp: 7474

Ion Ratio Lower Upper

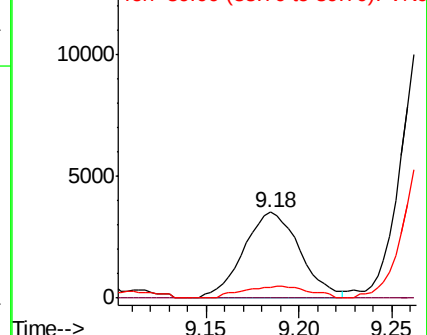
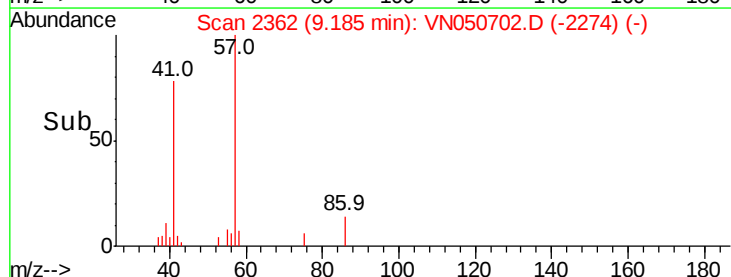
41 100

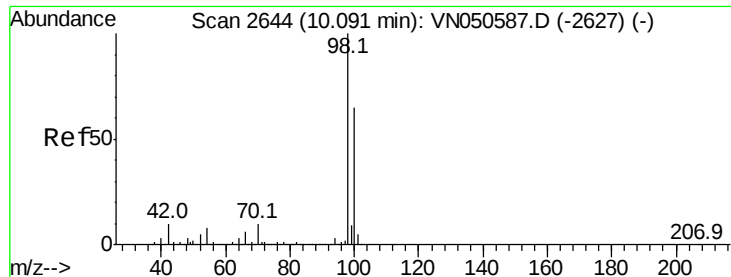
69 0.0 73.4 110.0#

39 16.2 43.0 64.6#



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

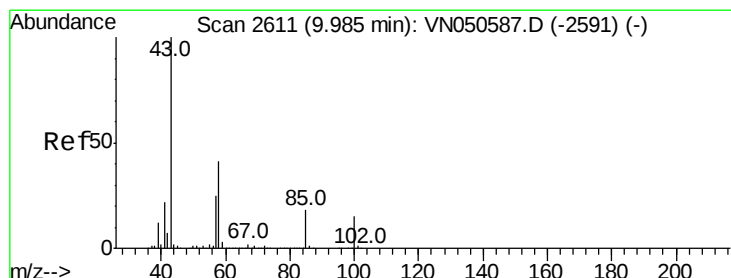
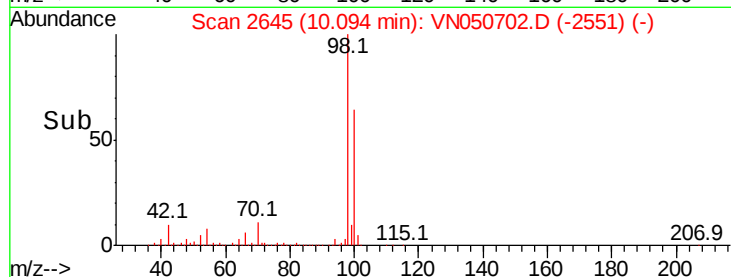
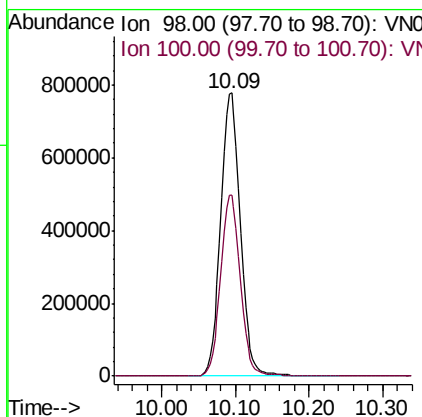
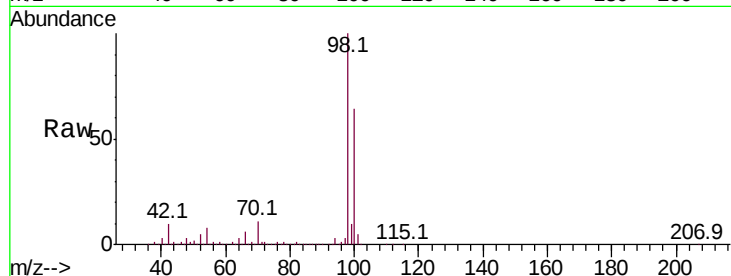




#50
Toluene-d8
Concen: 45.076 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050702.D
Acq: 16 Aug 2018 15:31

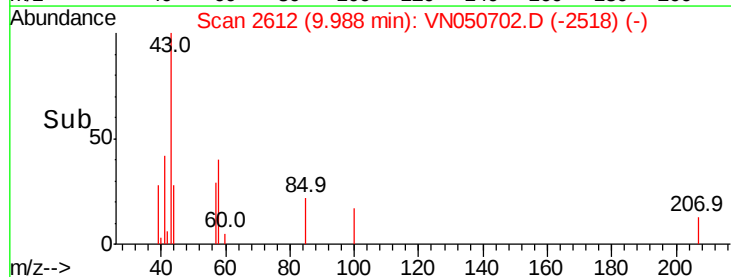
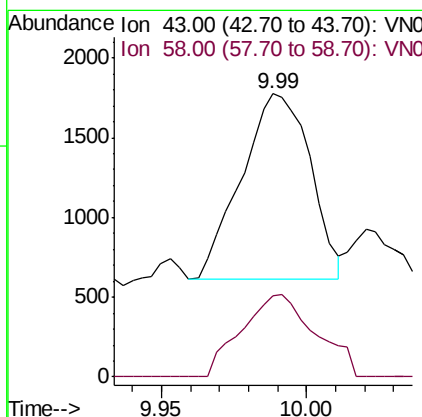
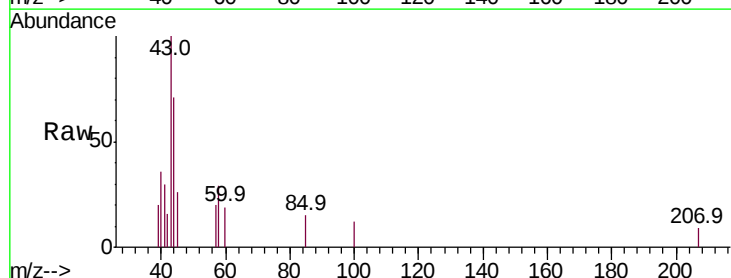
Instrument :
MSVOA_N
ClientSampled :

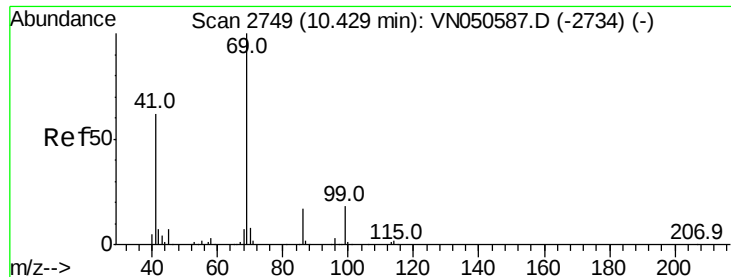
Tot Ion: 98 Resp: 1449726
Ion Ratio Lower Upper
98 100
100 64.0 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 0.230 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050702.D
Acq: 16 Aug 2018 15:31

Tgt Ion: 43 Resp: 1912
Ion Ratio Lower Upper
43 100
58 48.0 32.5 48.7





#56

Ethyl methacrylate

Concen: 2.114 ug/l

RT: 10.23 min Scan# 2687

Delta R.T. -0.20 min

Lab File: VN050702.D

Acq: 16 Aug 2018 15:31

Instrument :

MSVOA_N

ClientSampled :

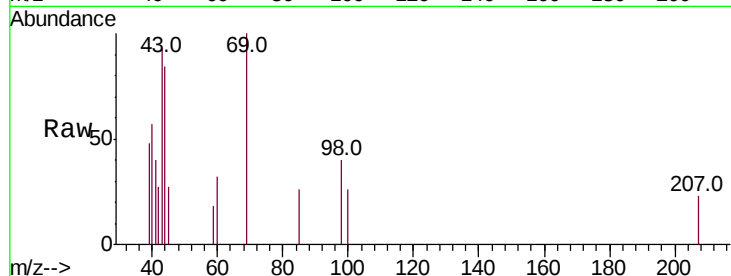
Tot Ion: 69 Resp: 2243

Ion Ratio Lower Upper

69 100

41 83.6 49.7 74.5#

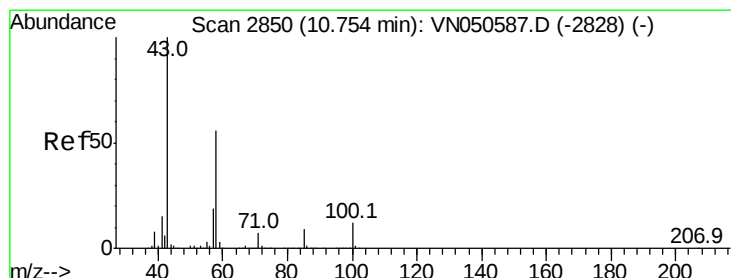
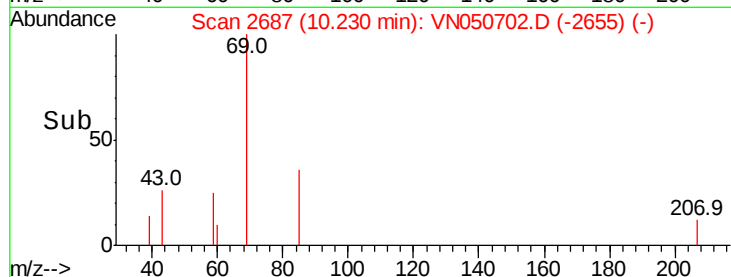
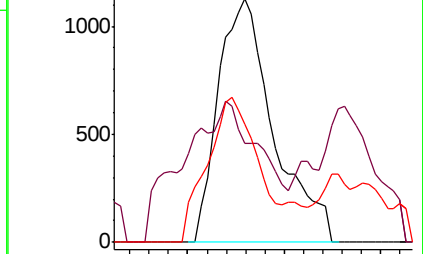
39 54.2 24.2 36.2#



Abundance Ion 69.00 (68.70 to 69.70): VN050587.D (-2734) (-)

Ion 41.00 (40.70 to 41.70): VN050587.D (-2734) (-)

Ion 39.00 (38.70 to 39.70): VN050587.D (-2734) (-)



#59

2-Hexanone

Concen: 3.327 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050702.D

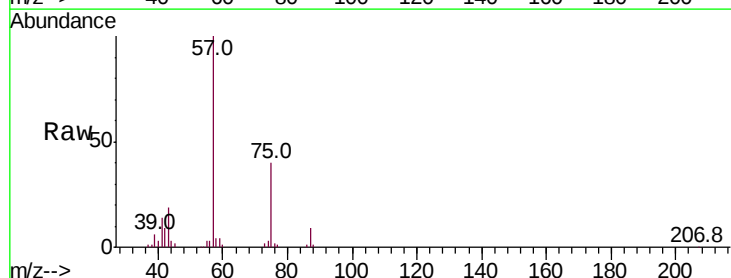
Acq: 16 Aug 2018 15:31

Tgt Ion: 43 Resp: 17826

Ion Ratio Lower Upper

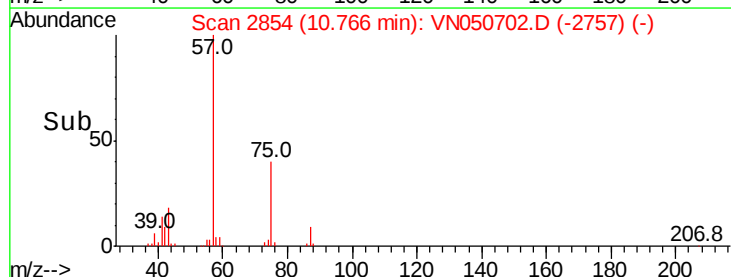
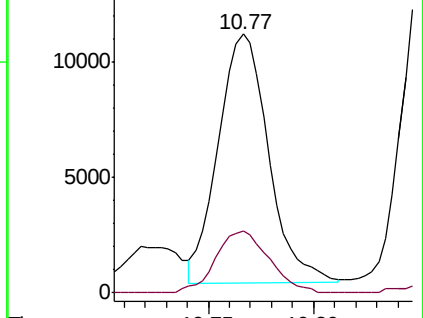
43 100

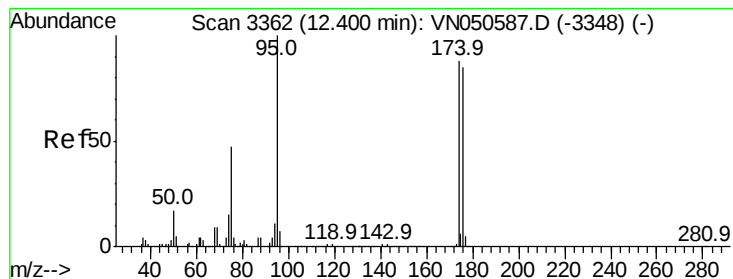
58 26.4 28.0 84.0#



Abundance Ion 43.00 (42.70 to 43.70): VN050587.D (-2828) (-)

Ion 58.00 (57.70 to 58.70): VN050587.D (-2828) (-)





#62

4-Bromofluorobenzene

Concen: 38.063 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050702.D

Acq: 16 Aug 2018 15:31

Instrument :

MSVOA_N

ClientSampleId :

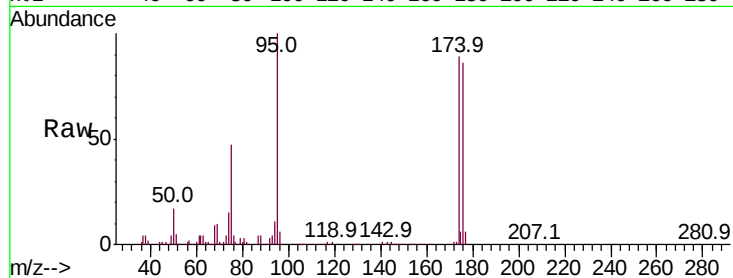
Tot Ion: 95 Resp: 404418

Ion Ratio Lower Upper

95 100

174 90.3 0.0 177.8

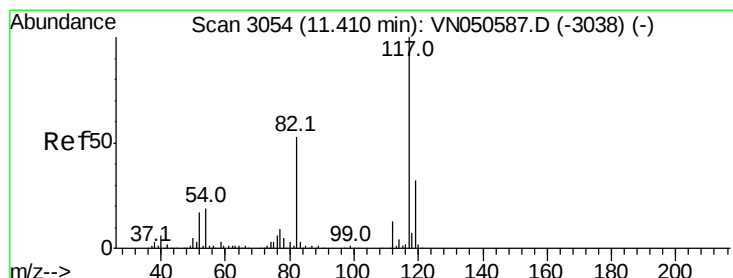
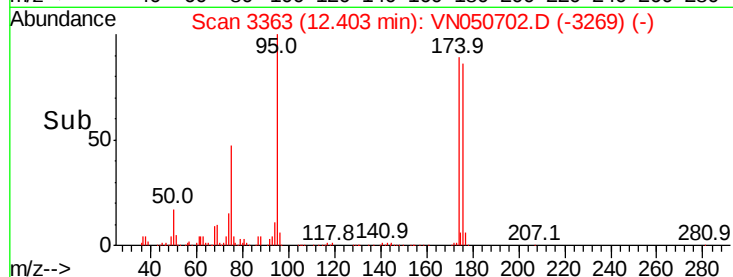
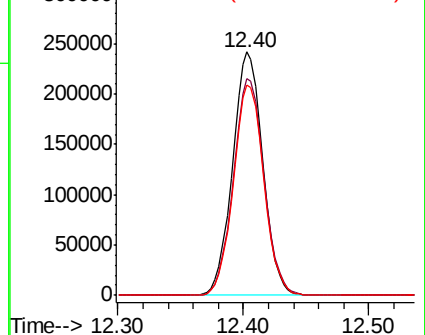
176 87.1 0.0 175.0



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN050702.D

Acq: 16 Aug 2018 15:31

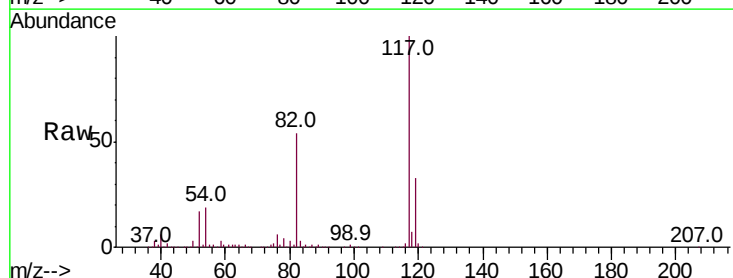
Tgt Ion: 117 Resp: 921388

Ion Ratio Lower Upper

117 100

82 53.9 42.4 63.6

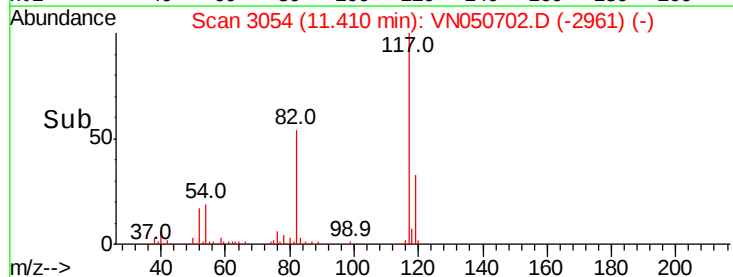
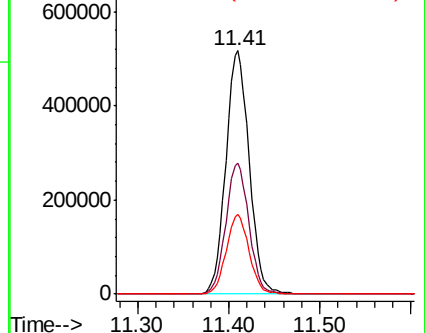
119 32.8 25.8 38.8

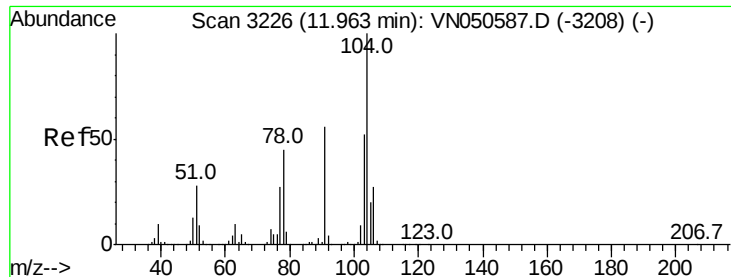


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#70

Stvrene

Concen: 0.949 ug/l

RT: 11.97 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VN050702.D

Acq: 16 Aug 2018 15:31

Instrument :

MSVOA_N

ClientSampleId :

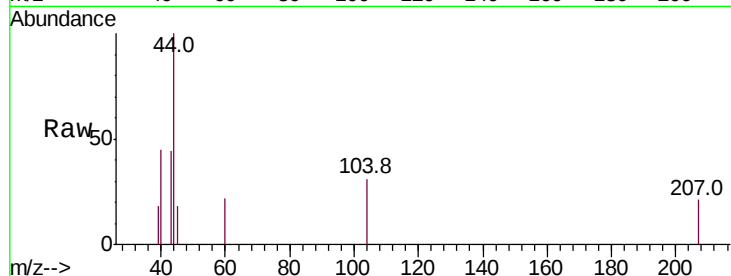
Tot Ion:104 Resp: 207

Ion Ratio Lower Upper

104 100

78 0.0 39.1 58.7#

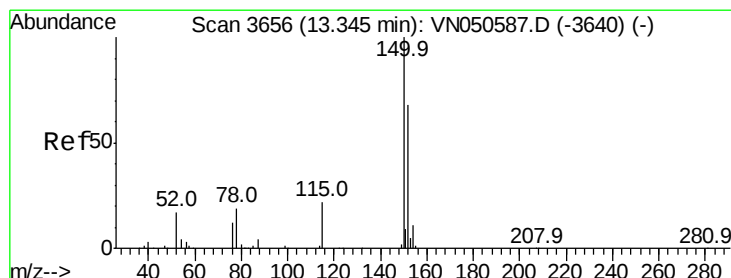
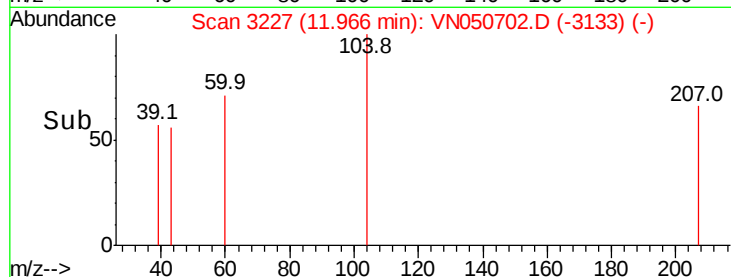
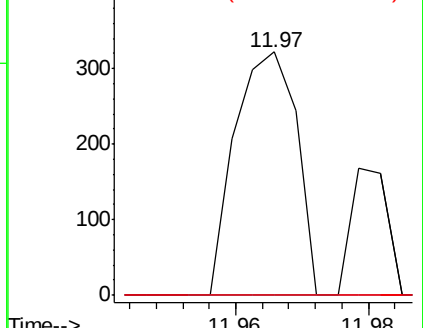
103 0.0 44.9 67.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050702.D

Acq: 16 Aug 2018 15:31

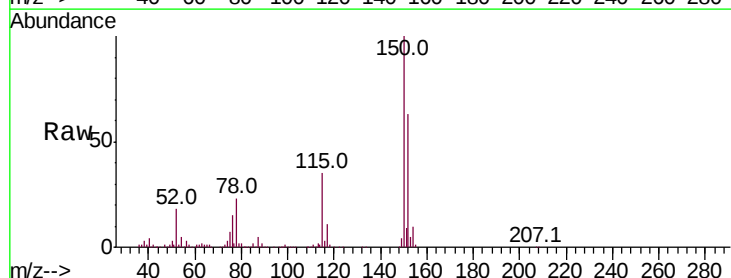
Tgt Ion:152 Resp: 328618

Ion Ratio Lower Upper

152 100

115 56.1 28.1 84.2

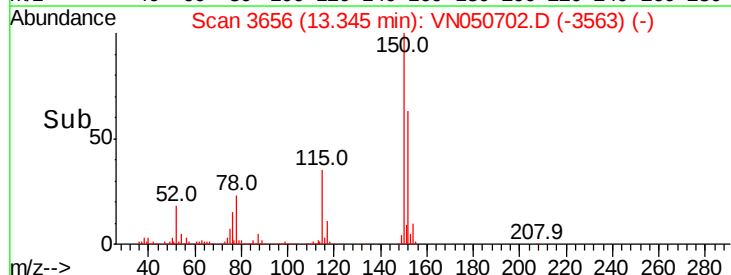
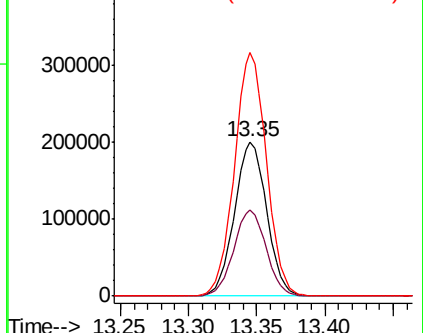
150 156.5 0.0 347.8

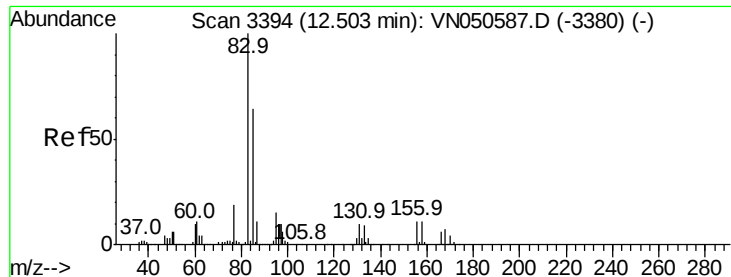


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.40 min Scan# 3363

Delta R.T. -0.10 min

Lab File: VN050702.D

Acq: 16 Aug 2018 15:31

Instrument :

MSVOA_N

ClientSampleId :

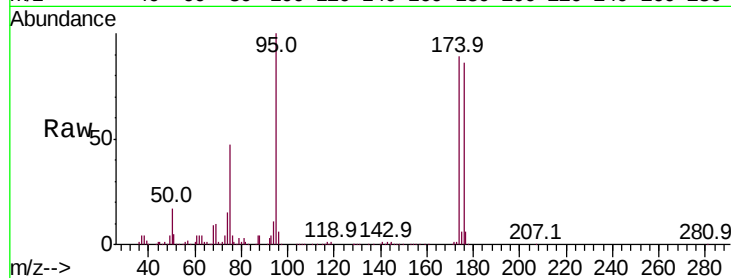
Tot Ion: 83 Resp: 113

Ion Ratio Lower Upper

83 100

131 182.3 5.3 15.9#

85 0.0 32.1 96.5#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO

400

300

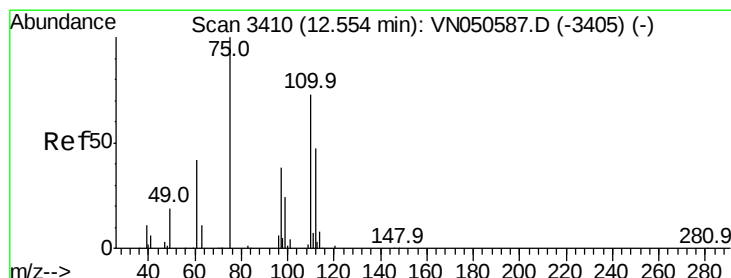
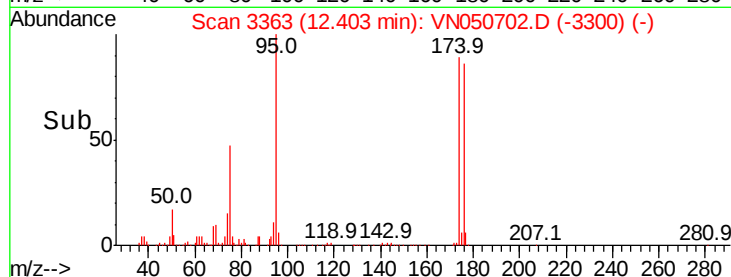
200

100

0

12.39 12.40 12.41

Time-->



#76

1,2,3-Trichloropropane

Concen: 35.459 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050702.D

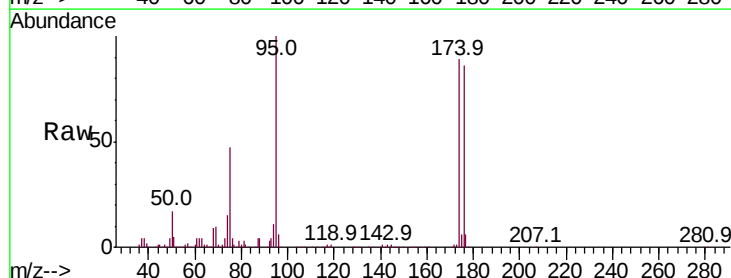
Acq: 16 Aug 2018 15:31

Tgt Ion: 75 Resp: 189853

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

120000

100000

80000

60000

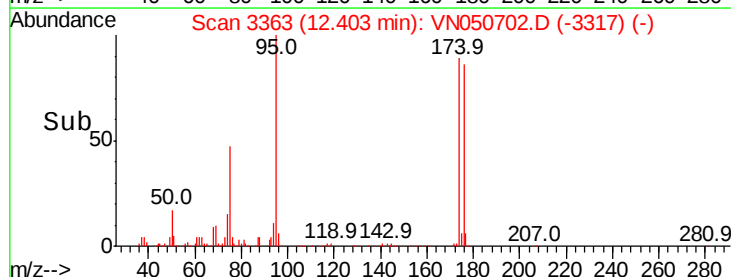
40000

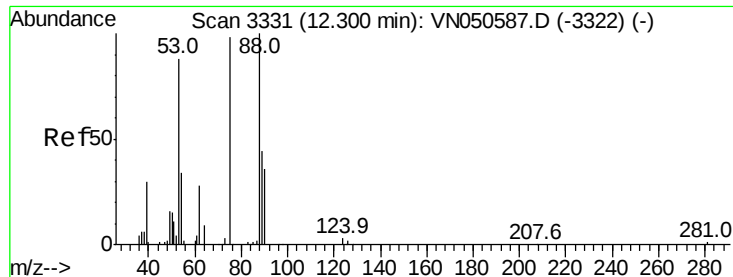
20000

0

12.35 12.40 12.45

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 128.442 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050702.D

Acq: 16 Aug 2018 15:31

Instrument :

MSVOA_N

ClientSampleId :

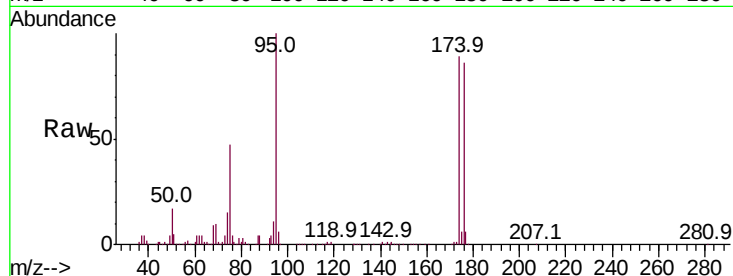
Tot Ion: 75 Resp: 189853

Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

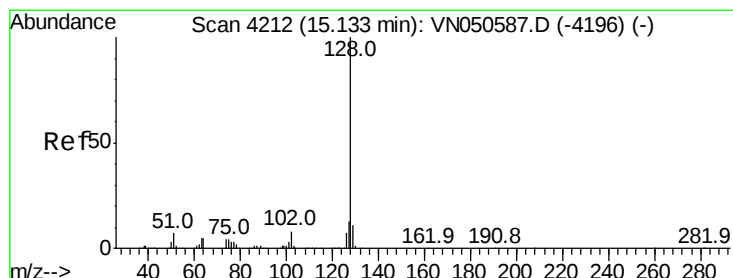
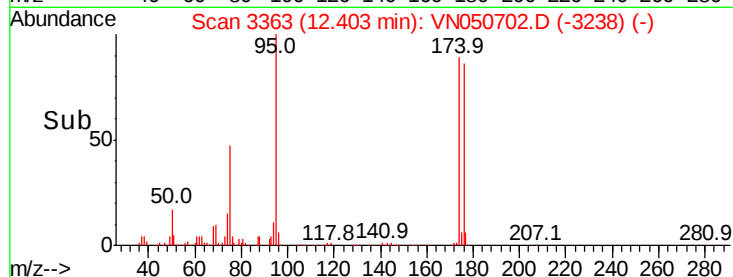
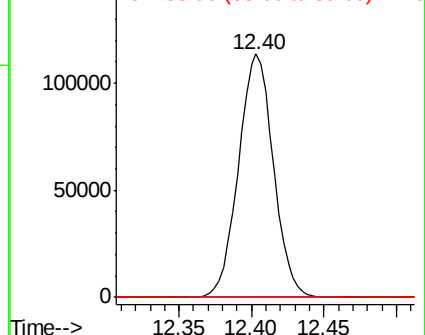
89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: 3.881 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050702.D

Acq: 16 Aug 2018 15:31

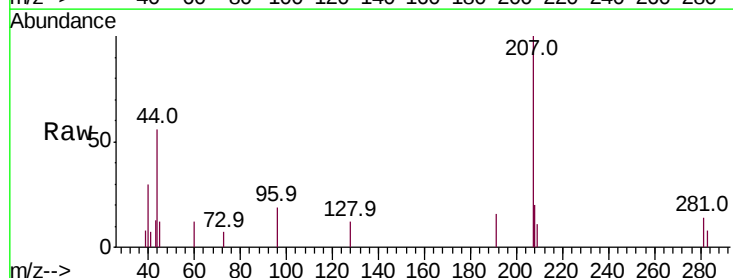
Tgt Ion: 128 Resp: 273

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.5 12.7#



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

