

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082418\
 Data File : VN050876.D
 Acq On : 24 Aug 2018 14:53
 Operator : MD\SY
 Sample : PB112339ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112339ZHE#02

Quant Time: Aug 24 22:54:51 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	638700	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1044600	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	885835	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	289926	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	409286	53.23	ug/l	0.00
Spiked Amount			Recovery	=	106.46%	
35) Dibromofluoromethane	7.59	113	389556	46.88	ug/l	0.00
Spiked Amount			Recovery	=	93.76%	
50) Toluene-d8	10.09	98	1421219	45.74	ug/l	0.00
Spiked Amount			Recovery	=	91.48%	
62) 4-Bromofluorobenzene	12.40	95	373700	36.19	ug/l	0.00
Spiked Amount			Recovery	=	72.38%	

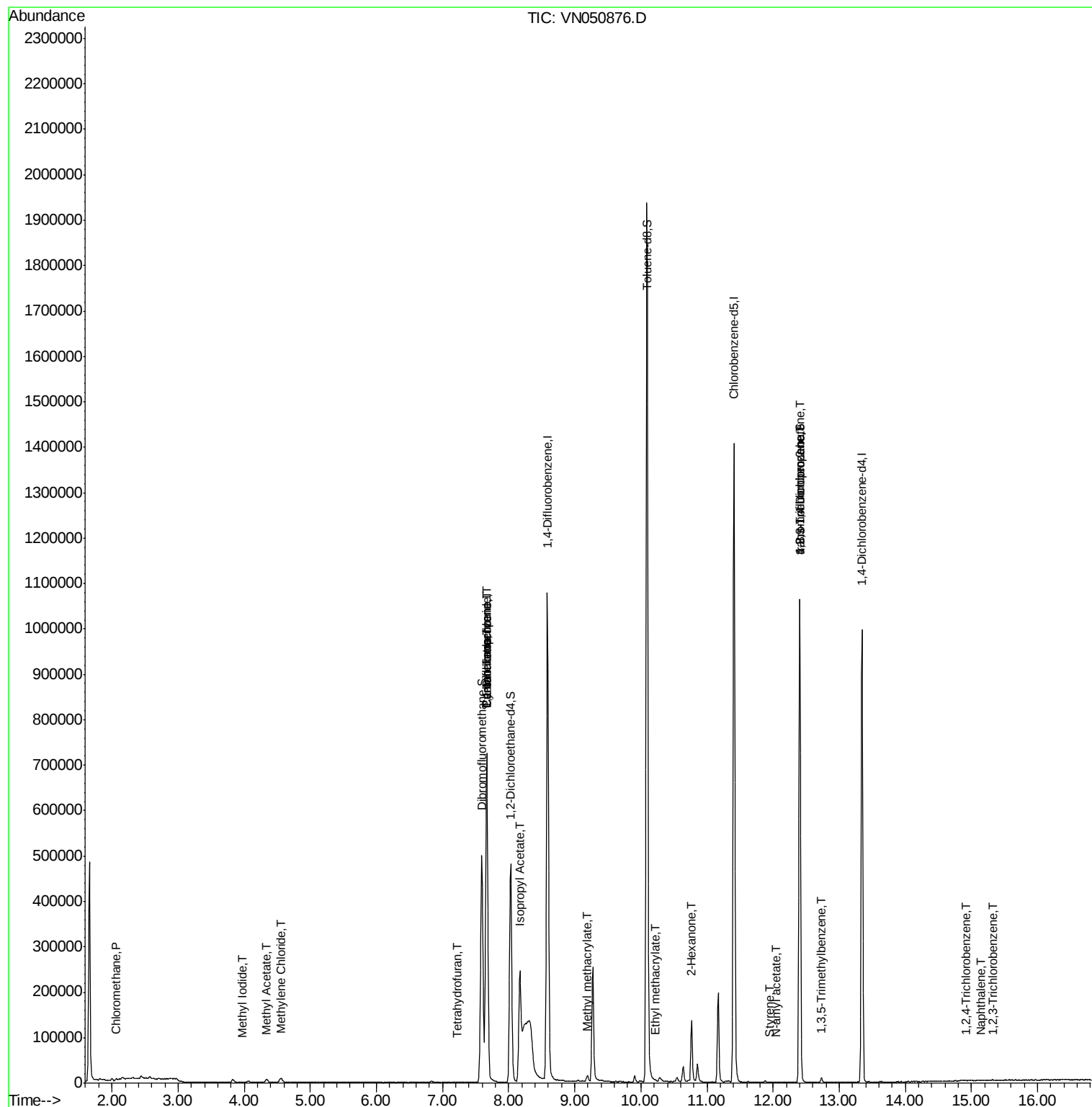
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2592	0.25	ug/l	96
5) Bromomethane	2.57	94	3029	Below	Cal	83
10) Methyl Iodide	3.96	142	890	6.45	ug/l #	43
16) Acetone	3.83	43	11285	Below	Cal	93
18) Methyl Acetate	4.33	43	12908	1.78	ug/l	97
20) Methylene Chloride	4.56	84	7785	0.90	ug/l	91
29) Tetrahydrofuran	7.22	42	562	0.32	ug/l #	50
31) Cyclohexane	7.67	56	11119	1.31	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	42247	3.43	ug/l #	48
38) Carbon Tetrachloride	7.67	117	55916	4.49	ug/l #	17
43) Isopropyl Acetate	8.17	43	318910	26.19	ug/l	93
48) Methyl methacrylate	9.18	41	7989	1.29	ug/l #	15
56) Ethyl methacrylate	10.23	69	2015	2.53	ug/l #	89
59) 2-Hexanone	10.77	43	19418	4.01	ug/l #	58
70) Styrene	11.96	104	330	1.28	ug/l #	69
74) N-amyl acetate	12.06	43	1508	0.25	ug/l #	40
76) 1,2,3-Trichloropropane	12.40	75	175324	34.53	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4897	0.25	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	175324	116.72	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	380	4.15	ug/l #	69
95) Naphthalene	15.13	128	703	5.45	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.31	180	257	3.34	ug/l #	59

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

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Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

Instrument :

MSVOA_N

ClientSampleId :

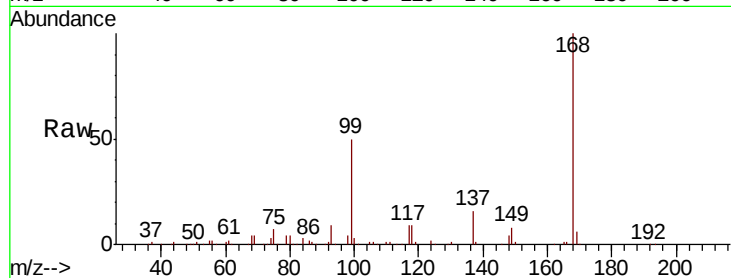
PB112339ZHE#02

Tot Ion:168 Resp: 638700

Ion Ratio Lower Upper

168 100

99 50.0 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

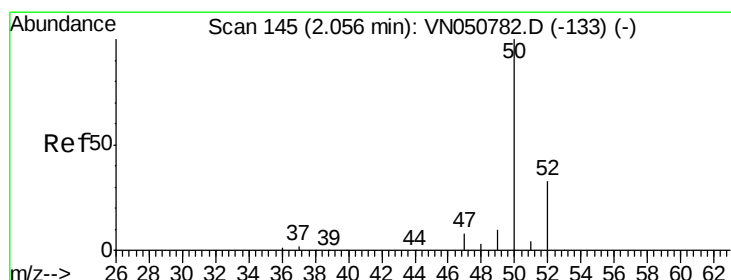
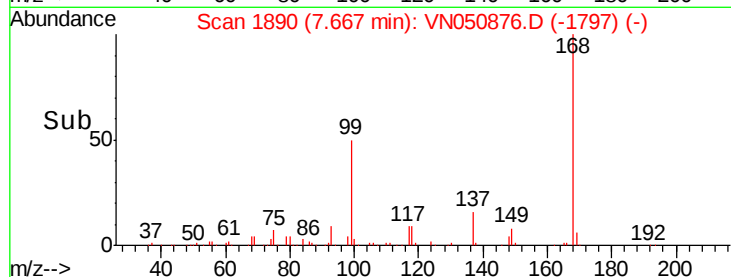
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.25 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050876.D

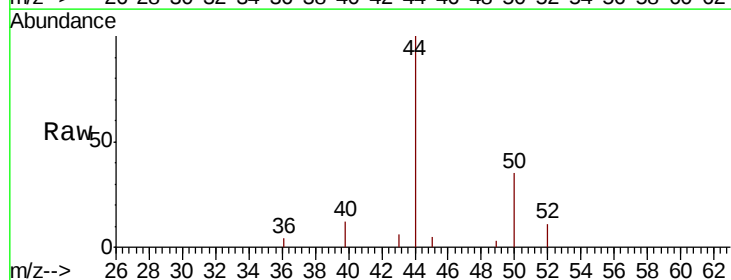
Acq: 24 Aug 2018 14:53

Tgt Ion: 50 Resp: 2592

Ion Ratio Lower Upper

50 100

52 30.6 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2000

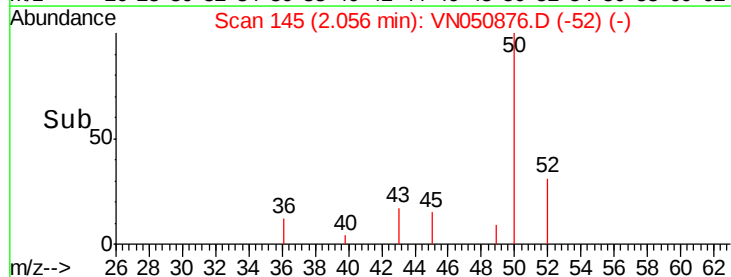
1500

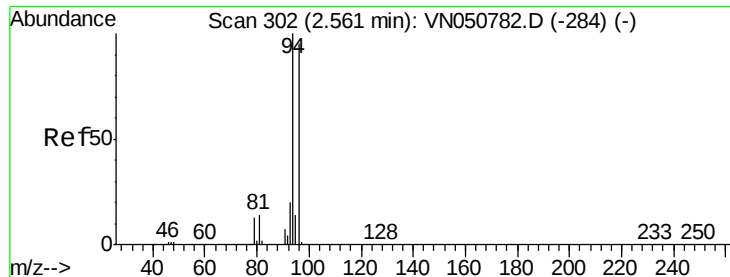
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 306

Delta R.T. 0.01 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

Instrument :

MSVOA_N

ClientSampleId :

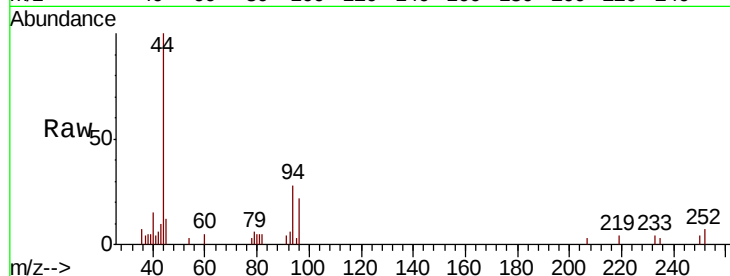
PB112339ZHE#02

Tot Ion: 94 Resp: 3029

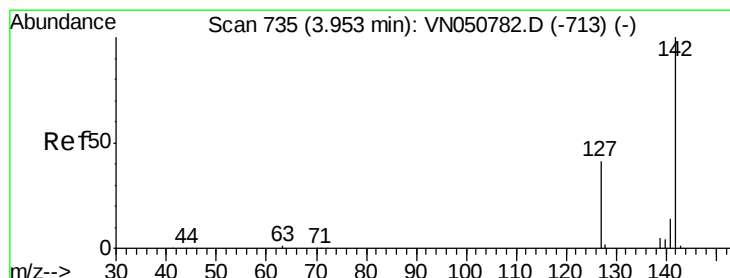
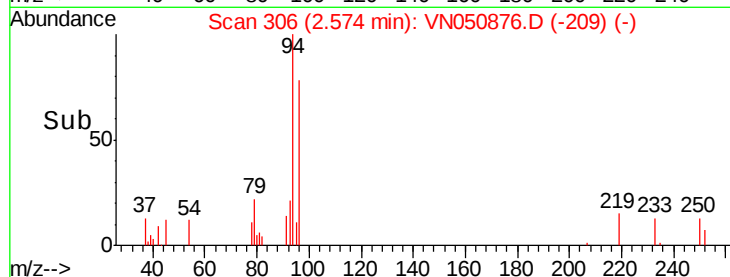
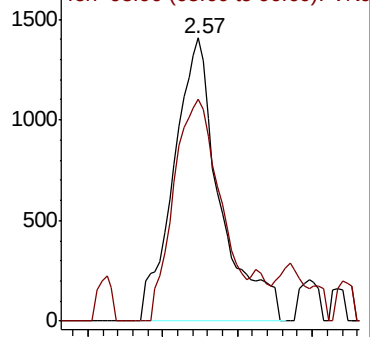
Ion Ratio Lower Upper

94 100

96 78.3 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050876.D (-284) (-)



#10

Methyl Iodide

Concen: 6.45 ug/l

RT: 3.96 min Scan# 738

Delta R.T. 0.01 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

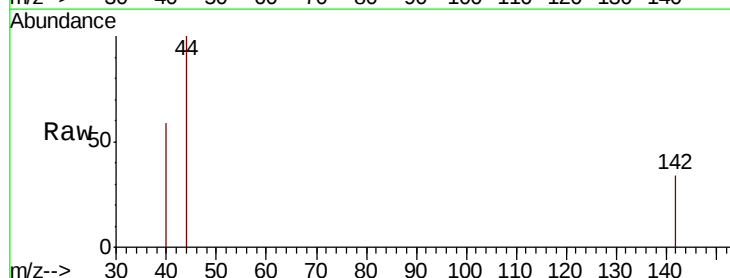
Tgt Ion: 142 Resp: 890

Ion Ratio Lower Upper

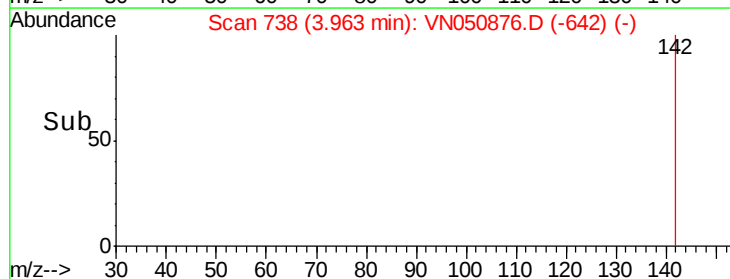
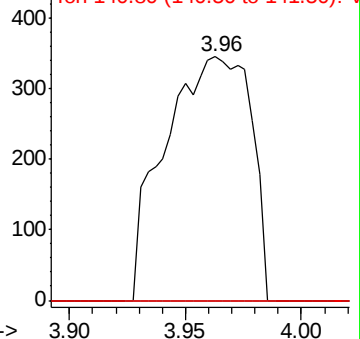
142 100

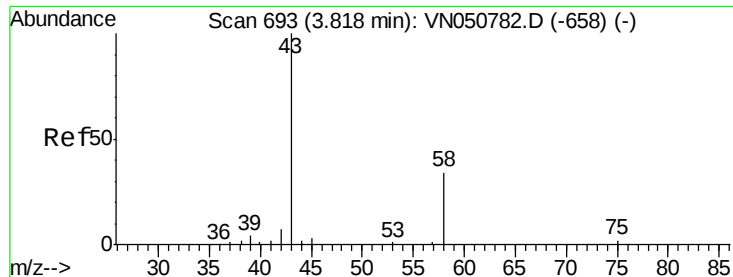
127 0.0 31.7 47.5#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): VN050876.D (-713) (-)





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

Instrument :

MSVOA_N

ClientSampleId :

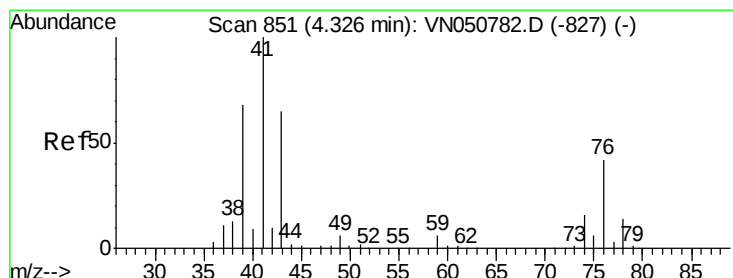
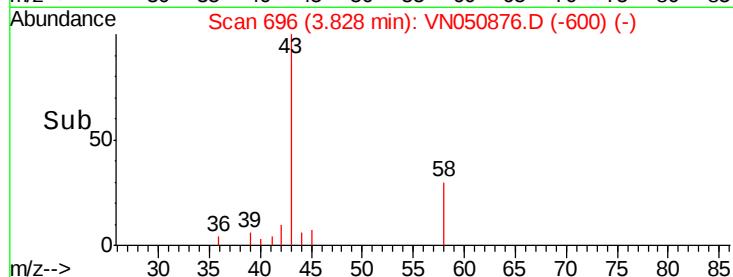
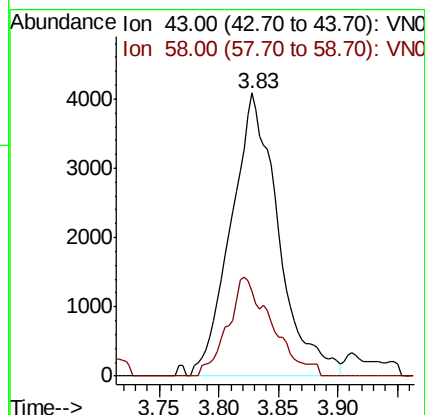
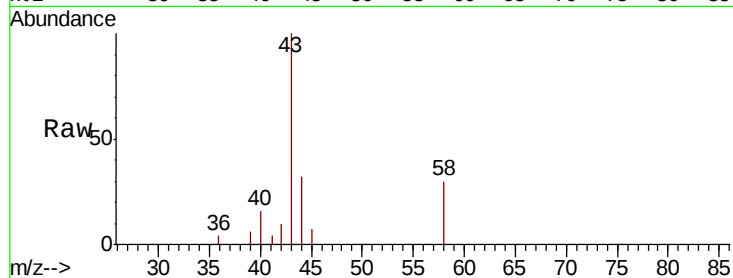
PB112339ZHE#02

Tot Ion: 43 Resp: 11285

Ion Ratio Lower Upper

43 100

58 29.8 27.2 40.8



#18

Methyl Acetate

Concen: 1.78 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN050876.D

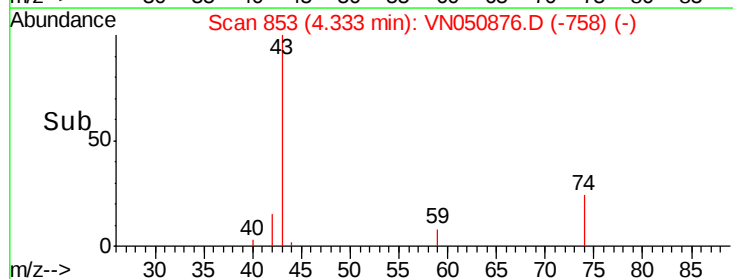
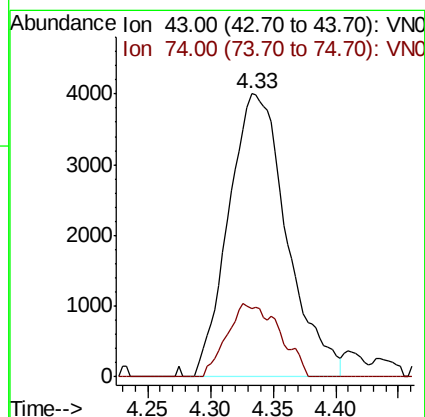
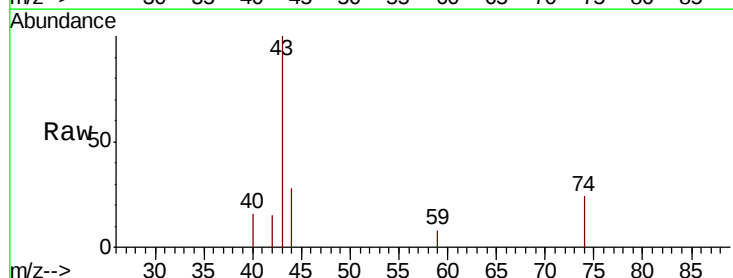
Acq: 24 Aug 2018 14:53

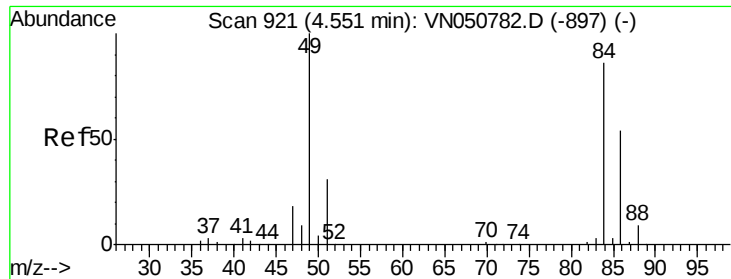
Tgt Ion: 43 Resp: 12908

Ion Ratio Lower Upper

43 100

74 23.2 19.8 29.8

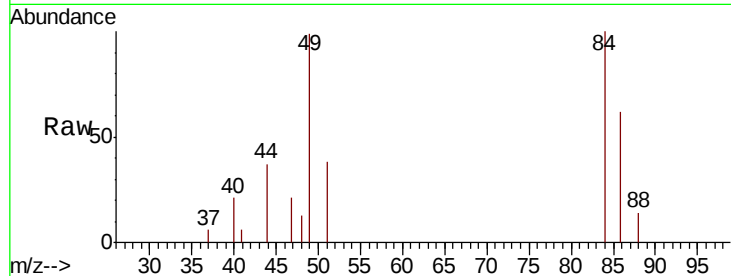




#20
Methvlene Chloride
Concen: 0.90 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.01 min
Lab File: VN050876.D
Acq: 24 Aug 2018 14:53

Instrument :
MSVOA_N
ClientSampleId :
PB112339ZHE#02

Tot Ion:	84	Resp:	7785
Ion	Ratio	Lower	Upper
84	100		
49	98.7	93.2	139.8
51	38.3	29.0	43.6
86	62.3	49.8	74.8



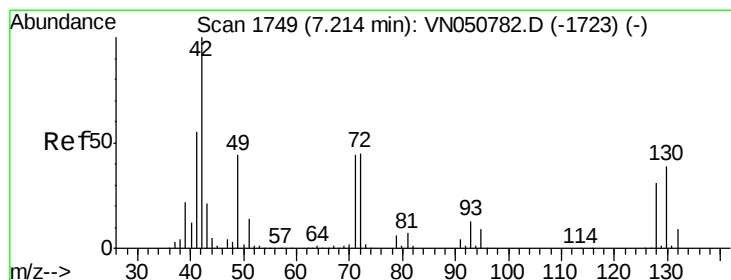
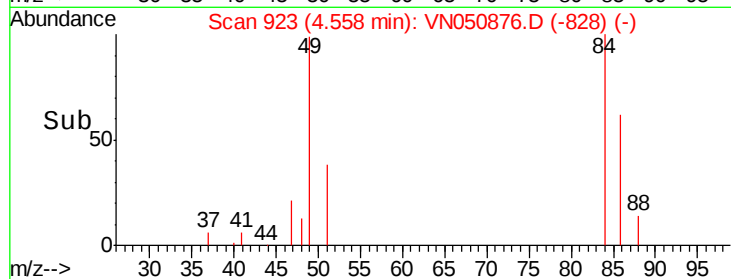
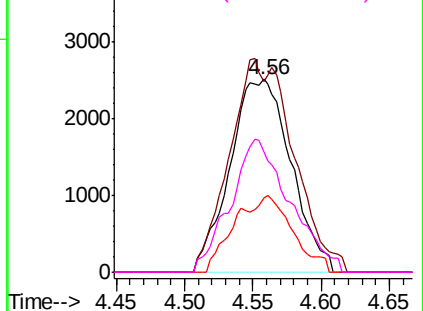
Abundance

Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

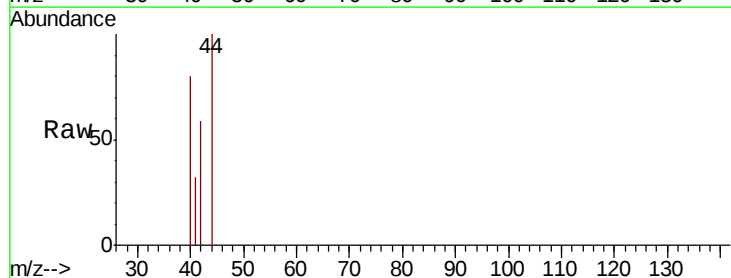
Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#29
Tetrahydrofuran
Concen: 0.32 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN050876.D
Acq: 24 Aug 2018 14:53

Tgt Ion:	42	Resp:	562
Ion	Ratio	Lower	Upper
42	100		
72	16.5	35.5	53.3#
71	5.2	33.7	50.5#

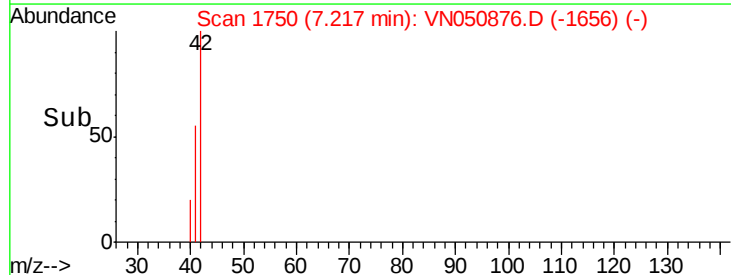
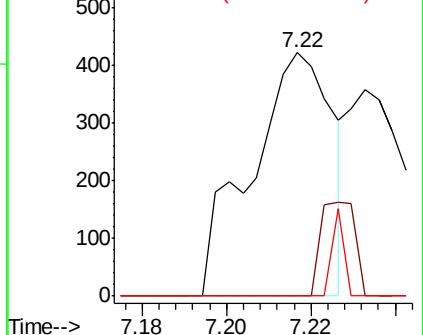


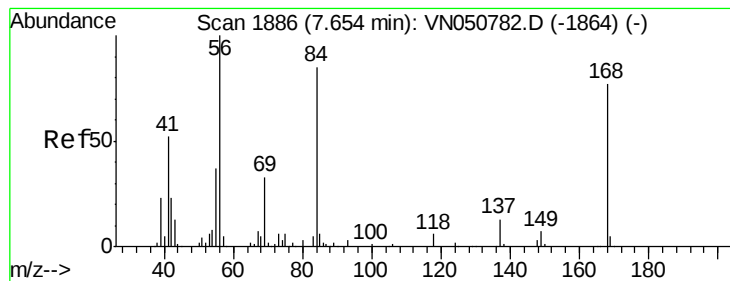
Abundance

Ion 42.00 (41.70 to 42.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

Ion 71.00 (70.70 to 71.70): VNO





#31

Cyclohexane

Concen: 1.31 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

Instrument :

MSVOA_N

ClientSampleId :

PB112339ZHE#02

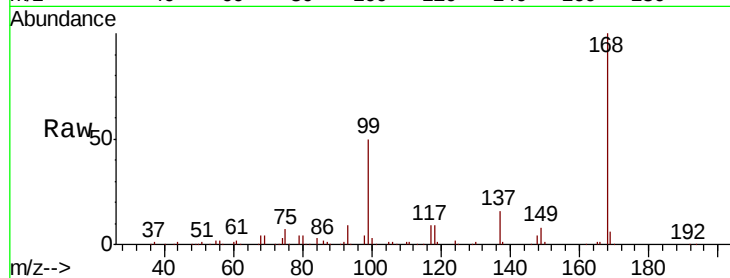
Tot Ion: 56 Resp: 11119

Ion Ratio Lower Upper

56 100

69 197.6 26.2 39.4#

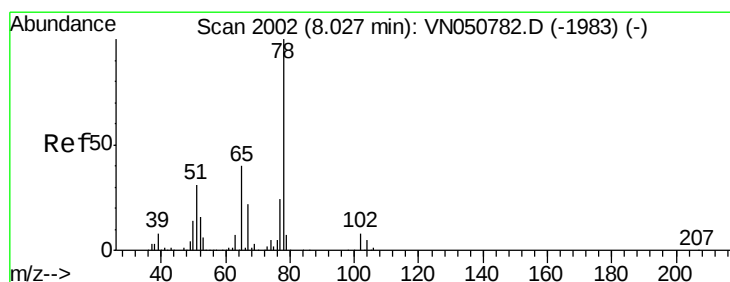
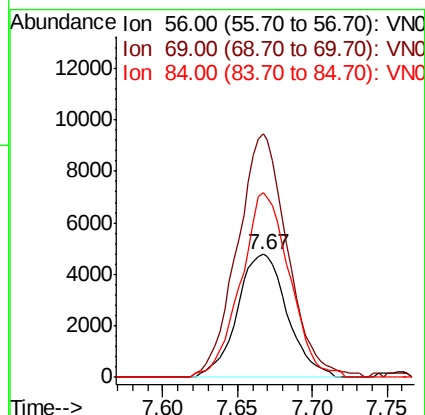
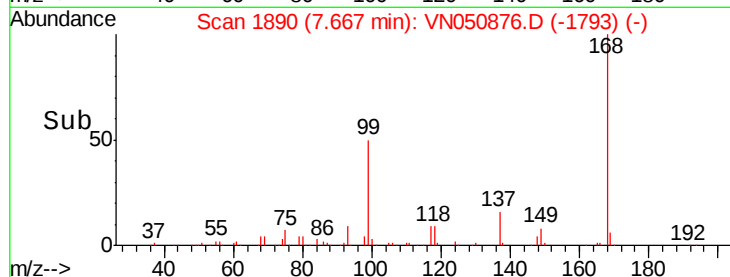
84 149.7 68.3 102.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 53.23 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050876.D

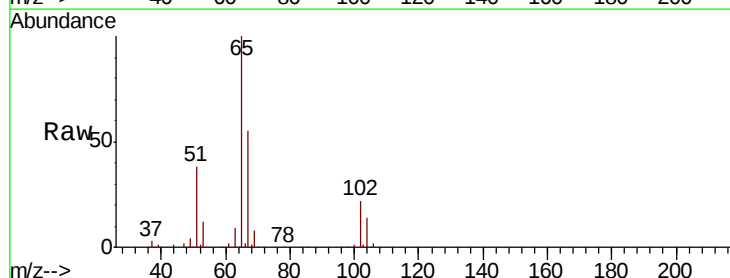
Acq: 24 Aug 2018 14:53

Tgt Ion: 65 Resp: 409286

Ion Ratio Lower Upper

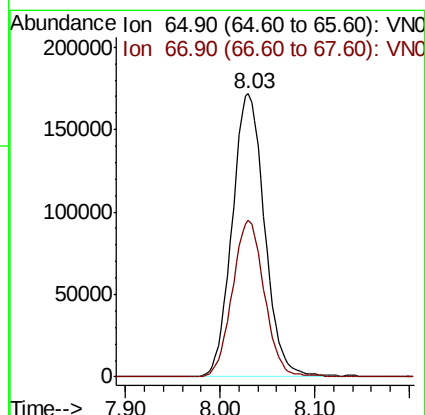
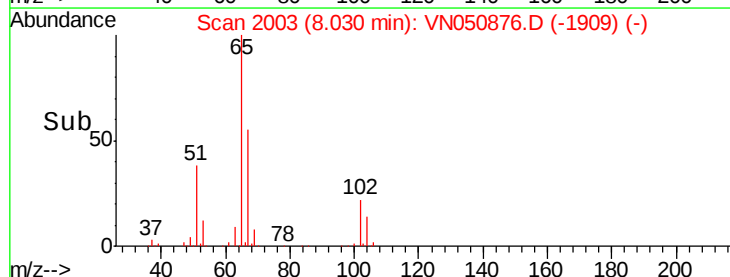
65 100

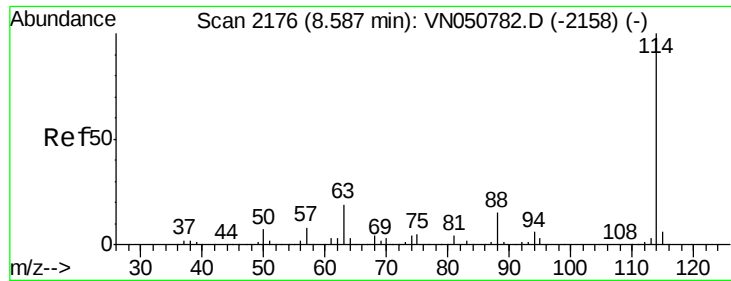
67 54.3 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

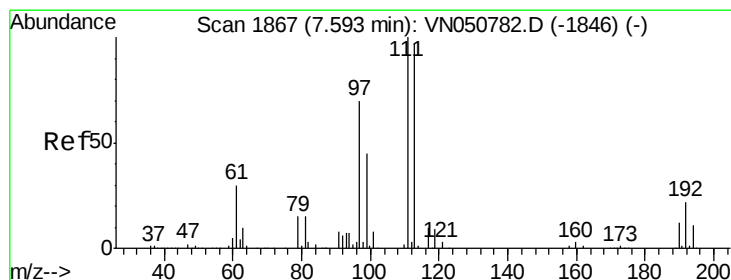
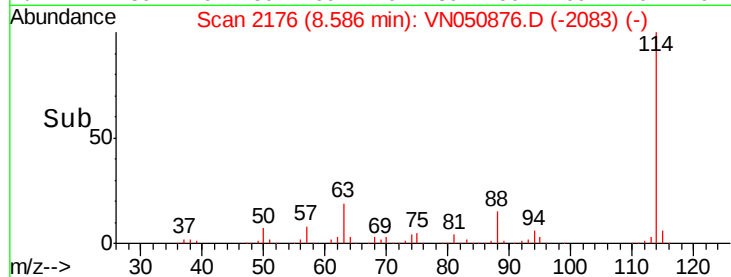
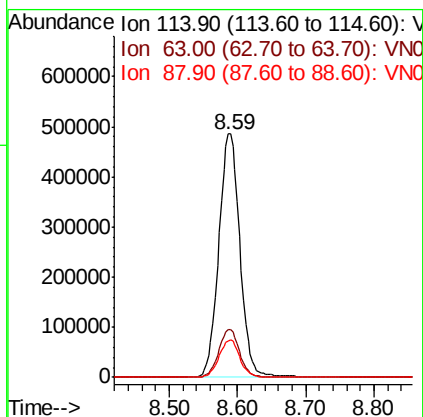
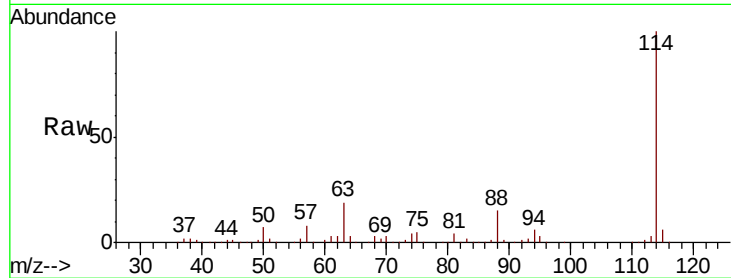




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN050876.D
 Acq: 24 Aug 2018 14:53

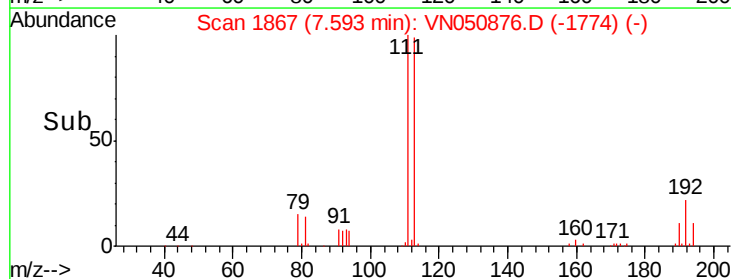
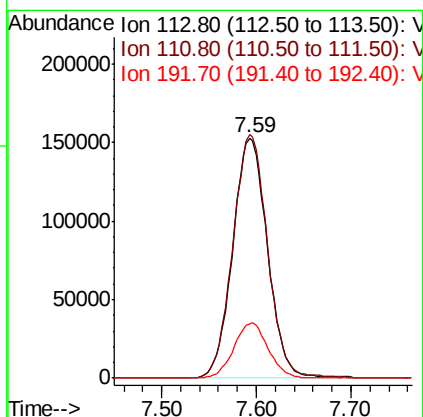
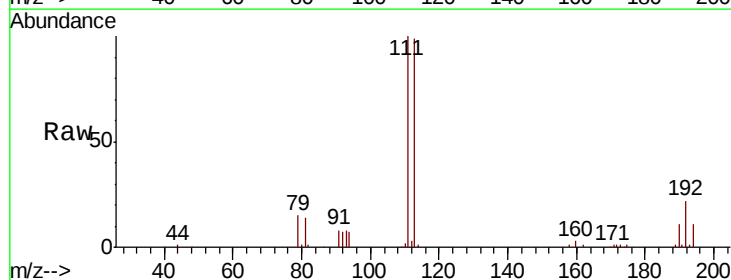
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112339ZHE#02

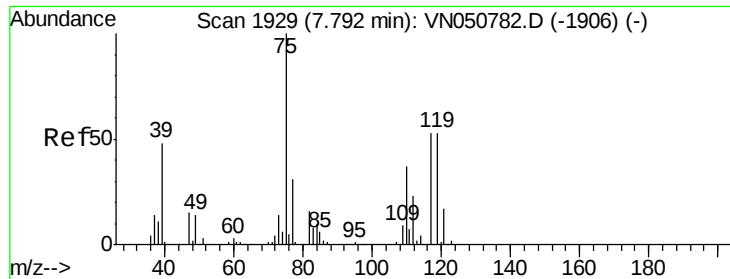
Tot Ion:114 Resp: 1044600
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 38.6
 88 15.0 0.0 30.6



#35
 Dibromofluoromethane
 Concen: 46.88 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050876.D
 Acq: 24 Aug 2018 14:53

Tgt Ion:113 Resp: 389556
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.6 123.8
 192 22.8 18.0 27.0





#36

1,1-Dichloropropene

Concen: 3.43 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

Instrument :

MSVOA_N

ClientSampleId :

PB112339ZHE#02

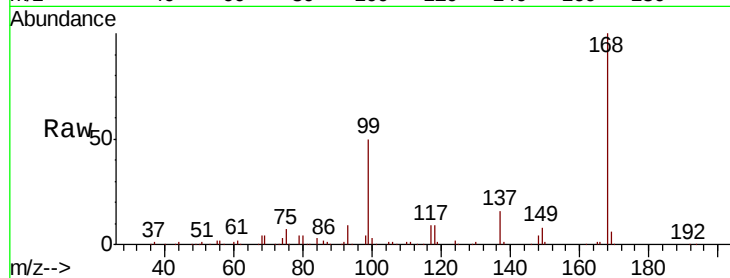
Tot Ion: 75 Resp: 42247

Ion Ratio Lower Upper

75 100

110 7.9 18.1 54.4#

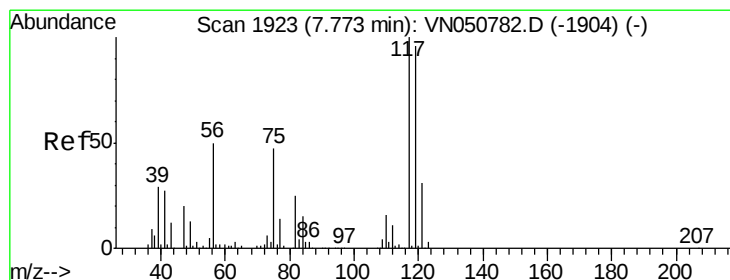
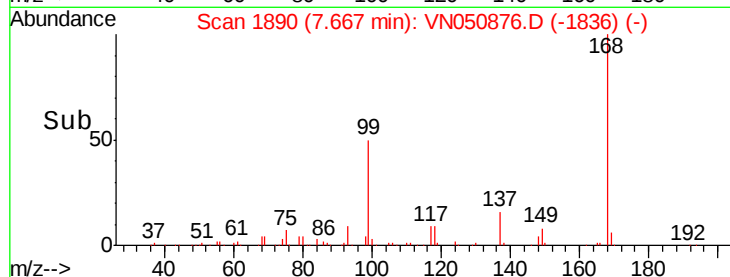
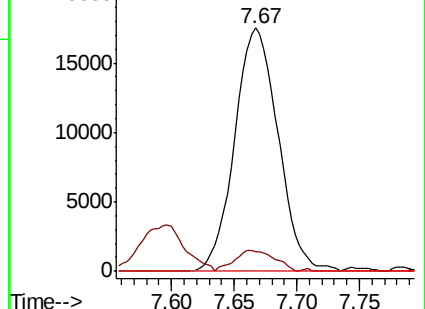
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 4.49 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

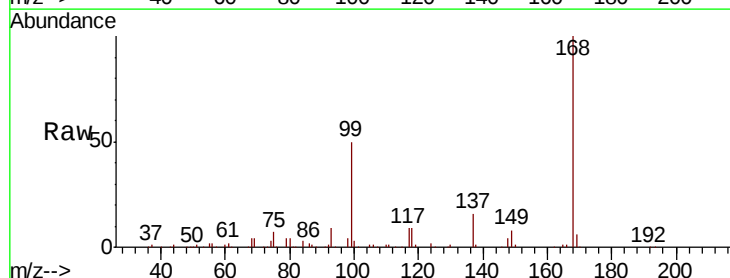
Tgt Ion: 117 Resp: 55916

Ion Ratio Lower Upper

117 100

119 6.7 76.3 114.5#

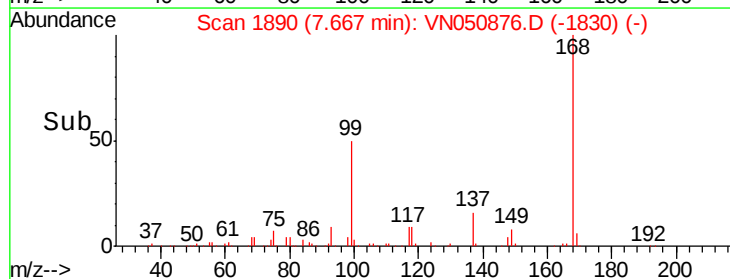
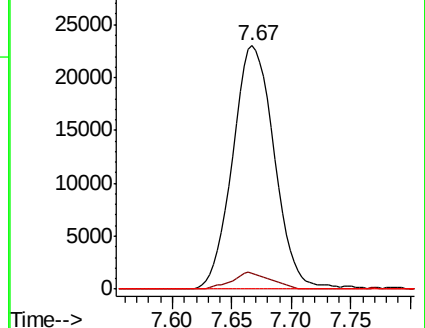
121 0.0 24.6 36.8#

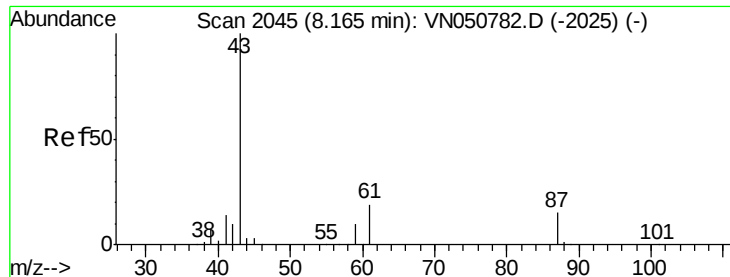


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 26.19 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

Instrument :

MSVOA_N

ClientSampleId :

PB112339ZHE#02

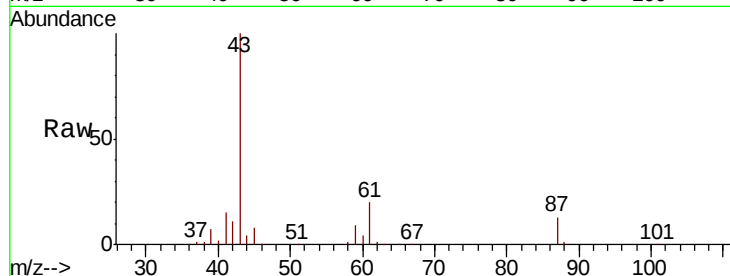
Tot Ion: 43 Resp: 318910

Ion Ratio Lower Upper

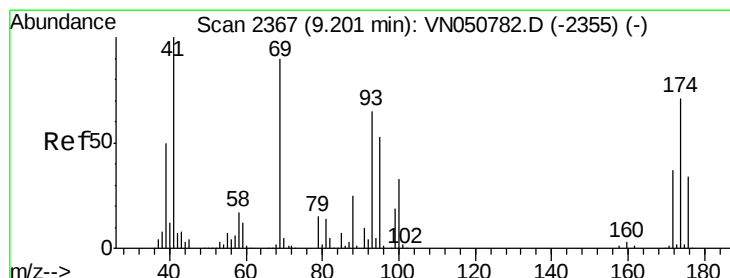
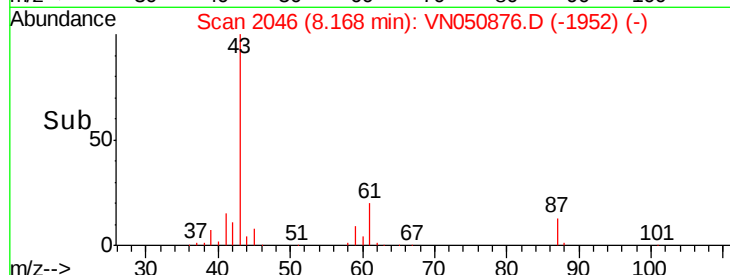
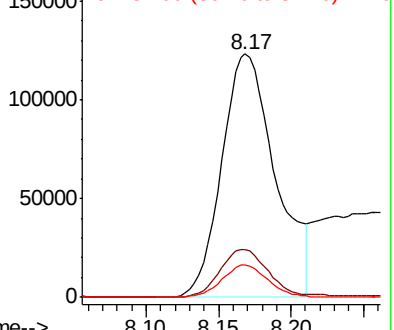
43 100

61 18.6 17.5 26.3

87 11.4 11.3 16.9



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: 1.29 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

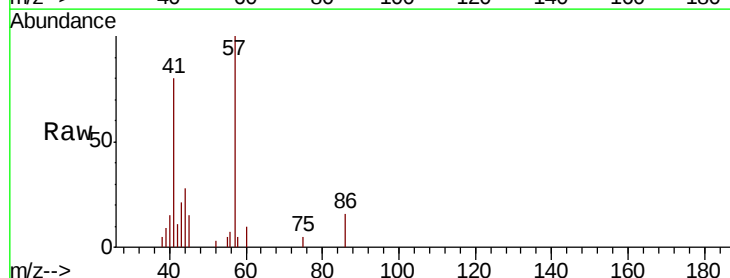
Tgt Ion: 41 Resp: 7989

Ion Ratio Lower Upper

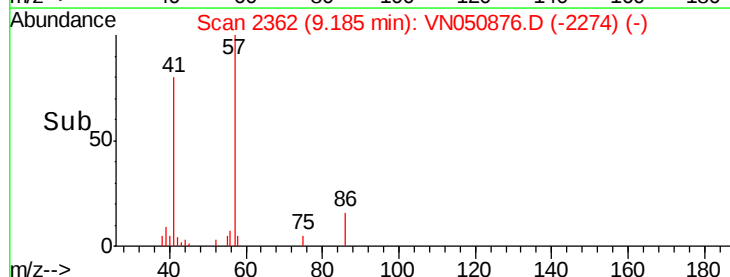
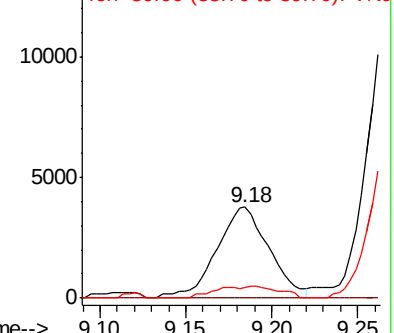
41 100

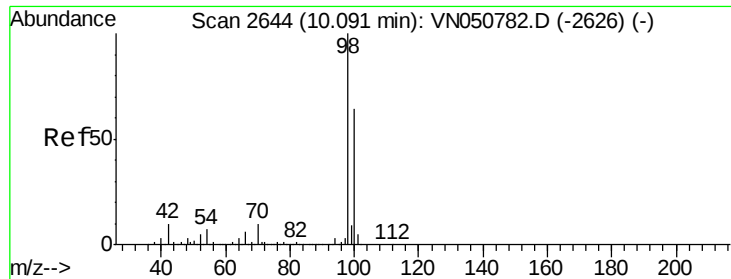
69 0.0 74.7 112.1#

39 6.9 42.2 63.2#



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

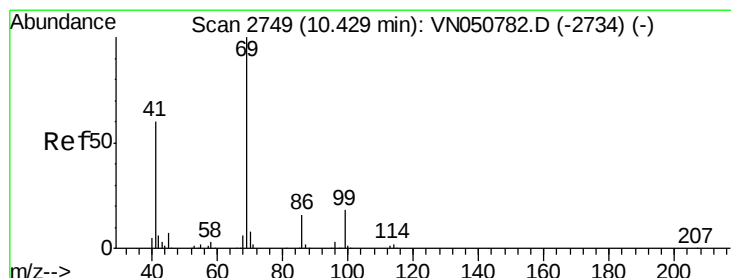
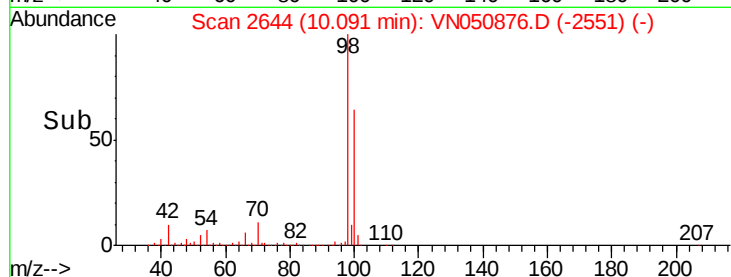
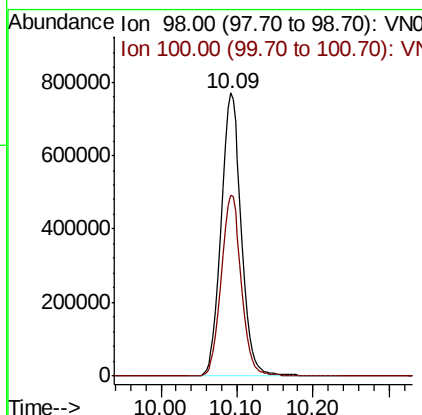
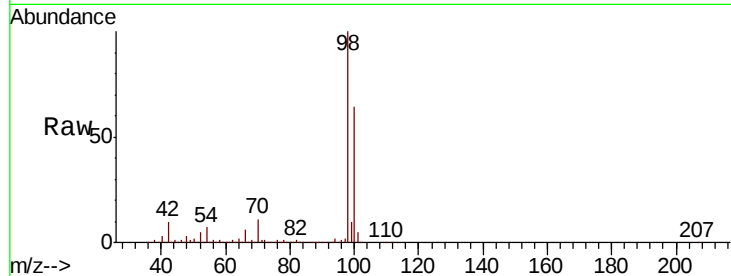




#50
Toluene-d8
Concen: 45.74 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050876.D
Acq: 24 Aug 2018 14:53

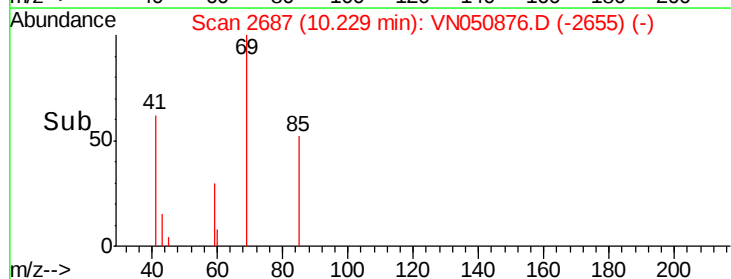
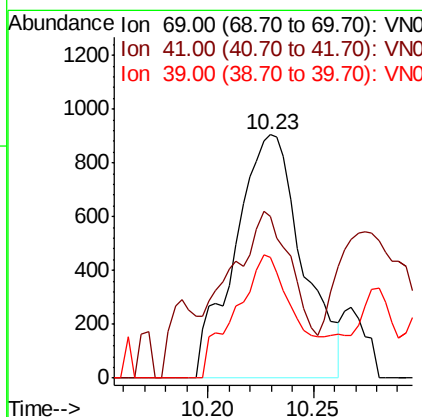
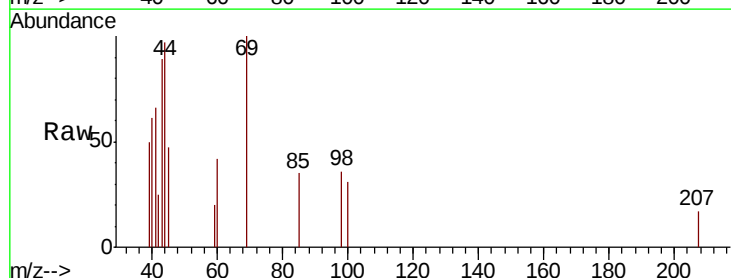
Instrument :
MSVOA_N
ClientSampleId :
PB112339ZHE#02

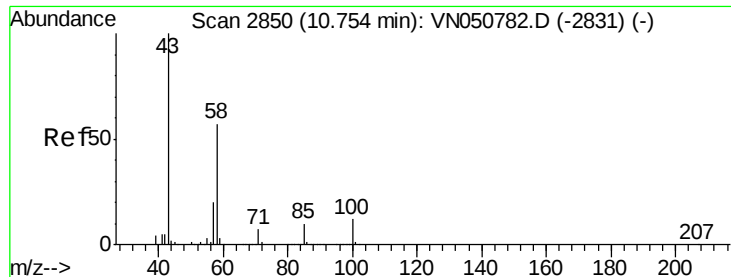
Tot Ion: 98 Resp: 1421219
Ion Ratio Lower Upper
98 100
100 64.0 51.5 77.3



#56
Ethyl methacrylate
Concen: 2.53 ug/l
RT: 10.23 min Scan# 2687
Delta R.T. -0.20 min
Lab File: VN050876.D
Acq: 24 Aug 2018 14:53

Tgt Ion: 69 Resp: 2015
Ion Ratio Lower Upper
69 100
41 57.3 48.3 72.5
39 43.8 24.0 36.0#





#59

2-Hexanone

Concen: 4.01 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

Instrument :

MSVOA_N

ClientSampleId :

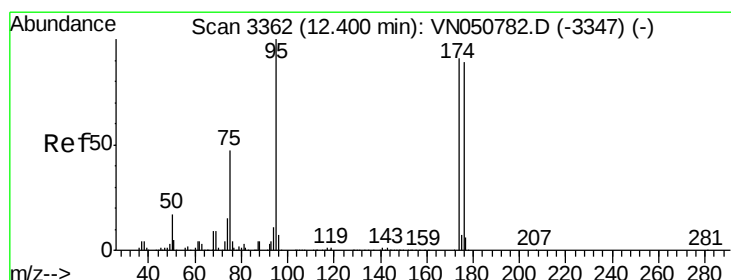
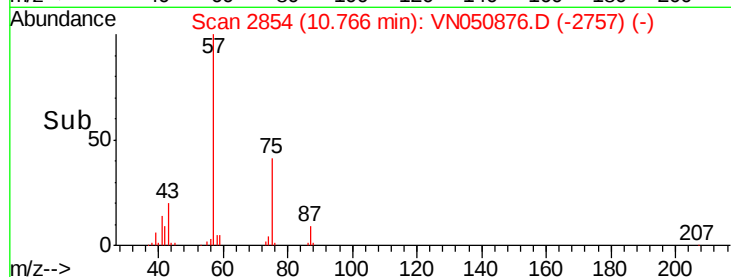
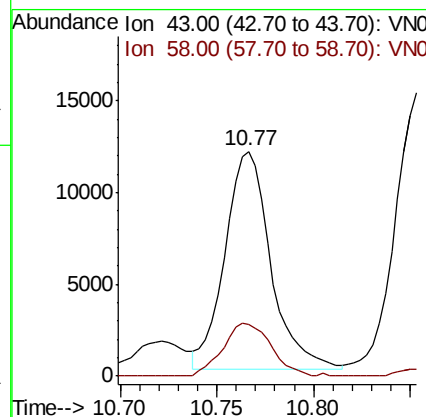
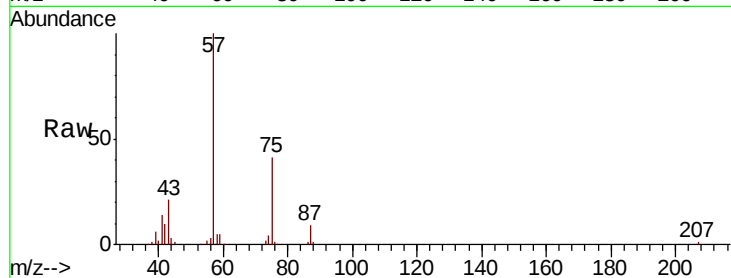
PB112339ZHE#02

Tot Ion: 43 Resp: 19418

Ion Ratio Lower Upper

43 100

58 25.6 28.3 85.0#



#62

4-Bromofluorobenzene

Concen: 36.19 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

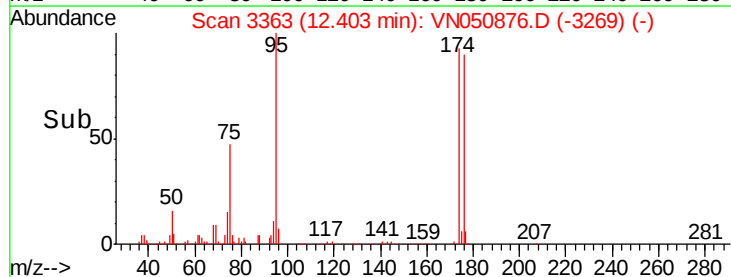
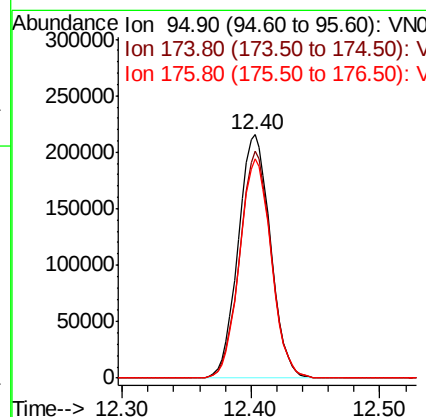
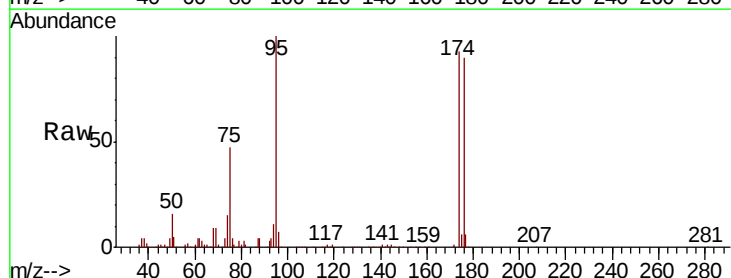
Tgt Ion: 95 Resp: 373700

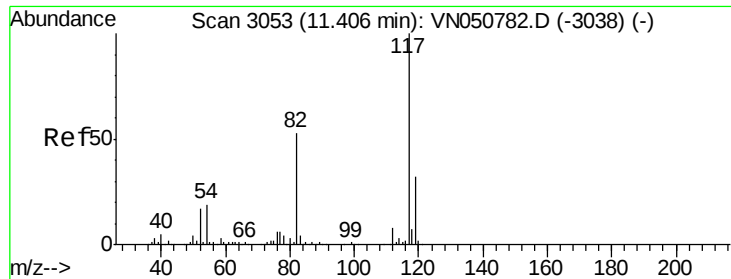
Ion Ratio Lower Upper

95 100

174 91.1 0.0 183.0

176 88.6 0.0 178.8

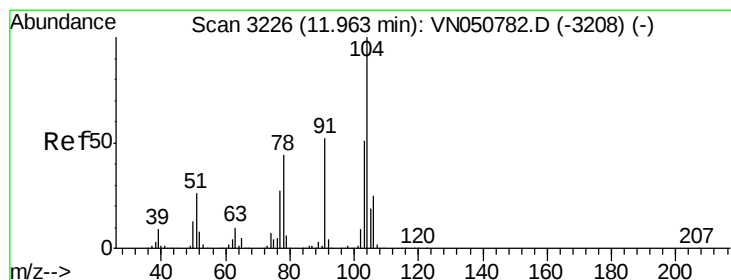
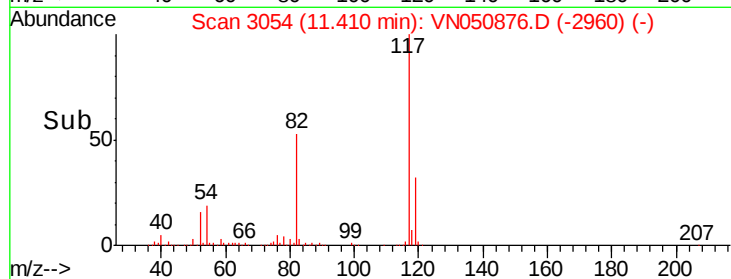
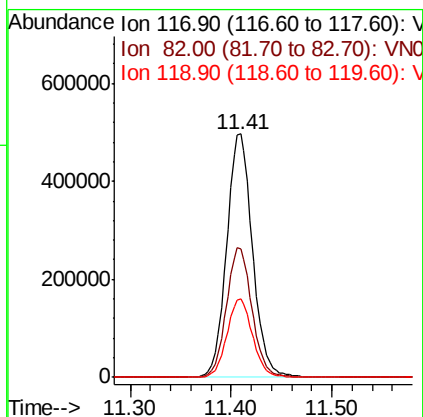
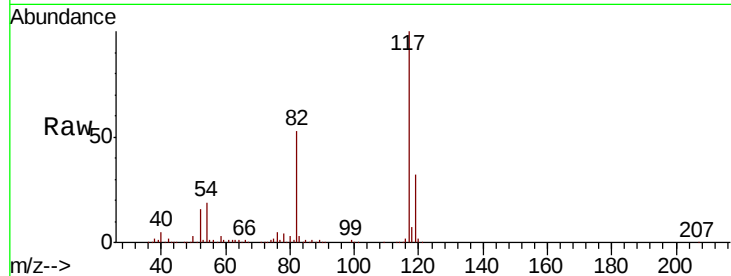




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050876.D
Acq: 24 Aug 2018 14:53

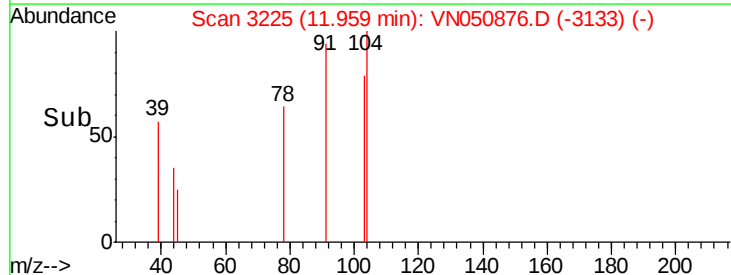
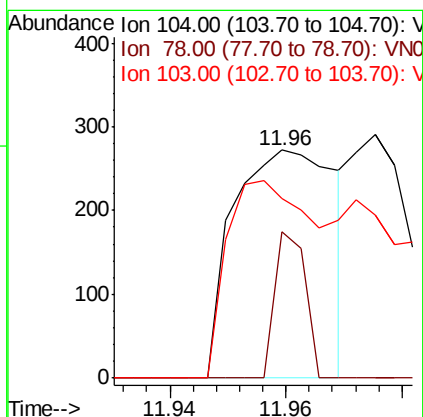
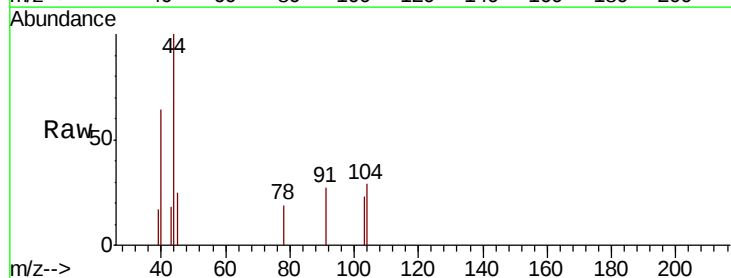
Instrument :
MSVOA_N
ClientSampleId :
PB112339ZHE#02

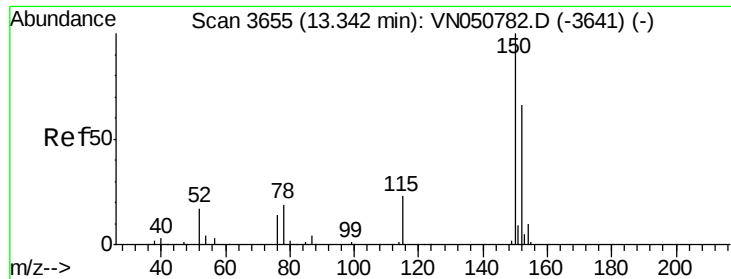
Tot Ion:117 Resp: 885835
Ion Ratio Lower Upper
117 100
82 52.8 42.6 64.0
119 32.1 25.8 38.6



#70
Styrene
Concen: 1.28 ug/l
RT: 11.96 min Scan# 3225
Delta R.T. -0.00 min
Lab File: VN050876.D
Acq: 24 Aug 2018 14:53

Tgt Ion:104 Resp: 330
Ion Ratio Lower Upper
104 100
78 19.4 38.2 57.4#
103 71.5 44.4 66.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

Instrument :

MSVOA_N

ClientSampleId :

PB112339ZHE#02

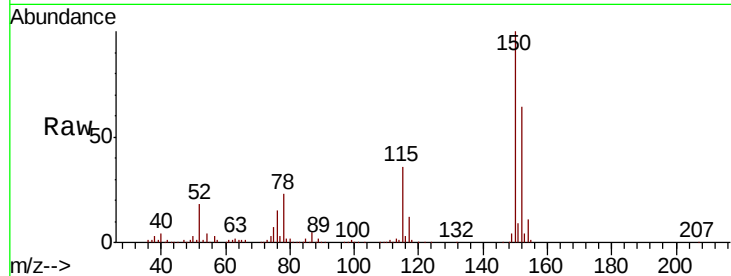
Tot Ion:152 Resp: 289926

Ion Ratio Lower Upper

152 100

115 55.8 27.8 83.4

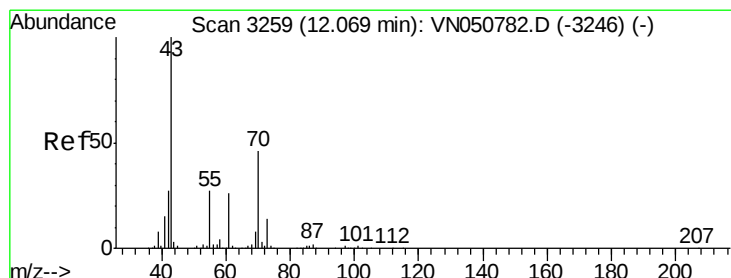
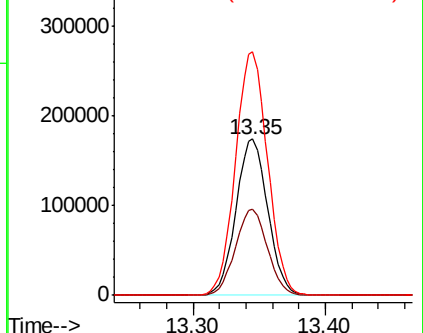
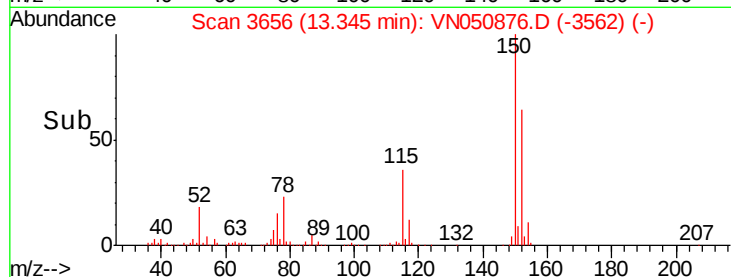
150 157.5 0.0 351.4



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: 0.25 ug/l

RT: 12.06 min Scan# 3256

Delta R.T. -0.01 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

Tgt Ion: 43 Resp: 1508

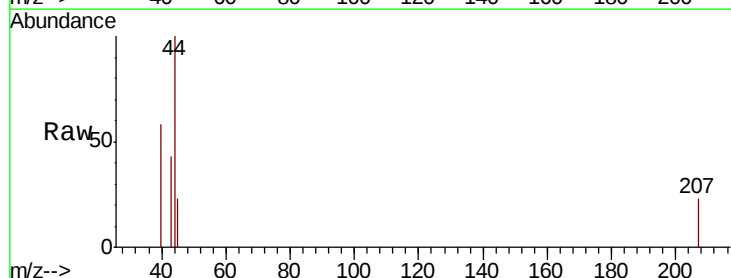
Ion Ratio Lower Upper

43 100

70 0.0 36.2 54.2#

55 0.0 21.8 32.8#

61 0.0 20.5 30.7#

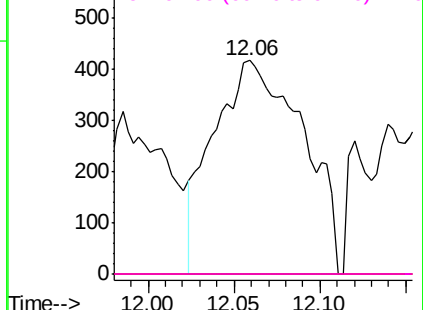
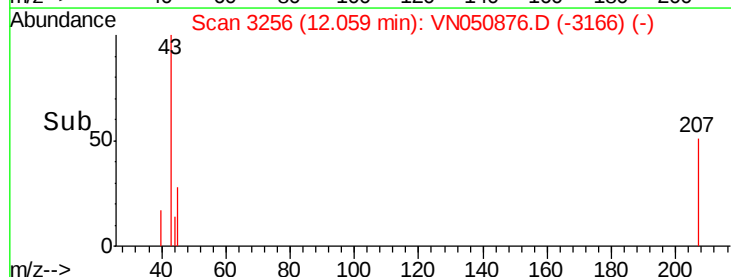


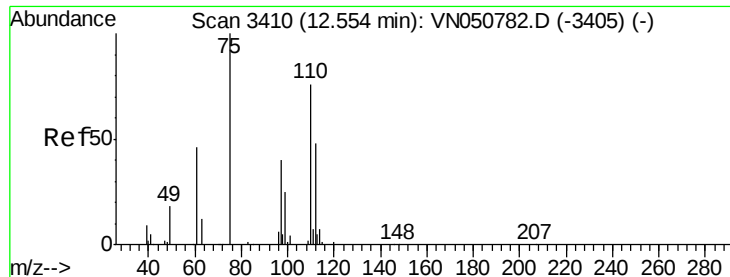
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 34.53 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

Instrument :

MSVOA_N

ClientSampleId :

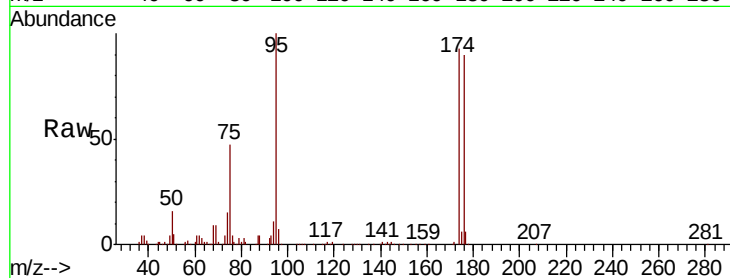
PB112339ZHE#02

Tot Ion: 75 Resp: 175324

Ion Ratio Lower Upper

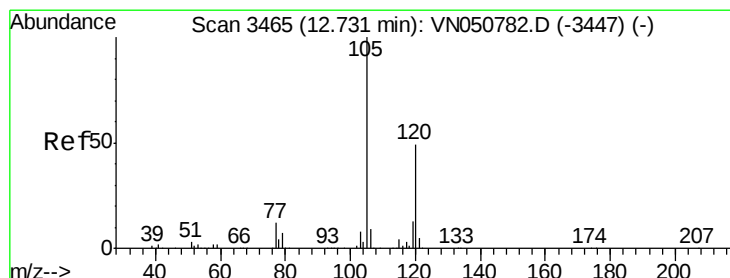
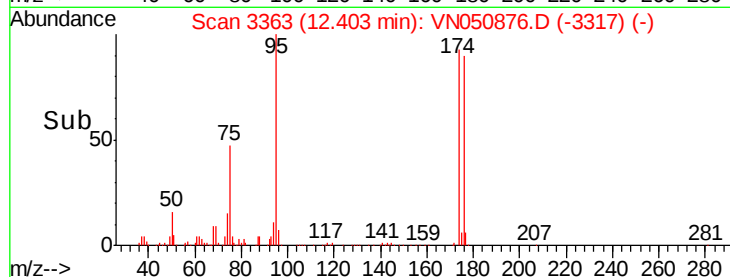
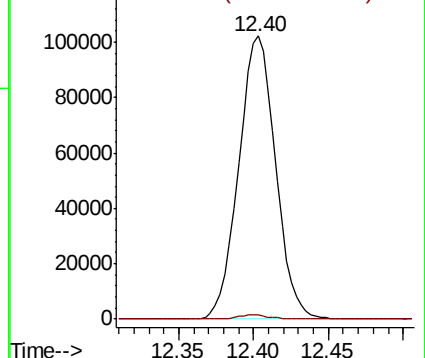
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.25 ug/l

RT: 12.73 min Scan# 3465

Delta R.T. -0.00 min

Lab File: VN050876.D

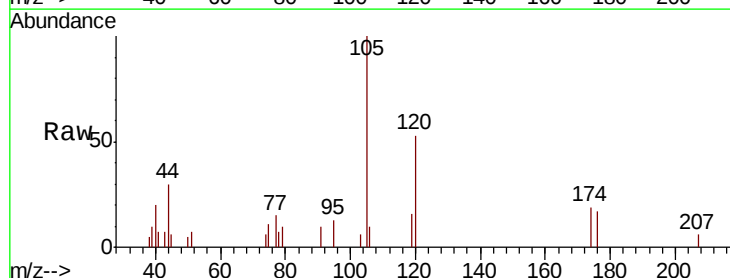
Acq: 24 Aug 2018 14:53

Tgt Ion:105 Resp: 4897

Ion Ratio Lower Upper

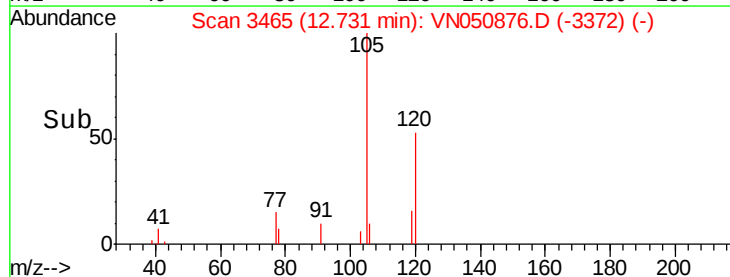
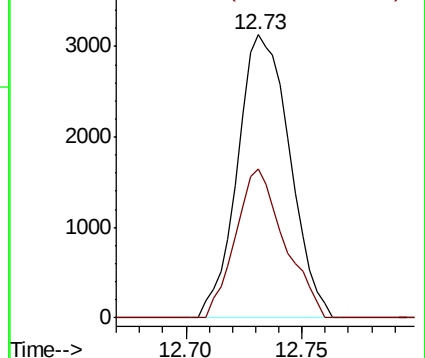
105 100

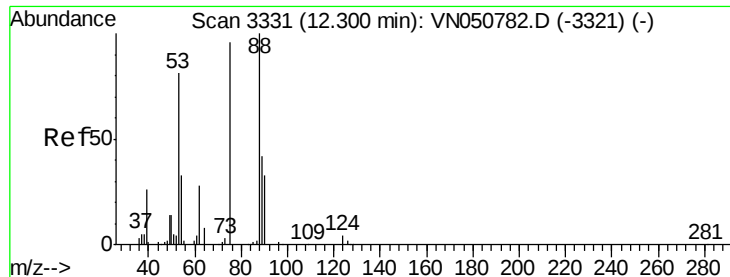
120 49.2 24.6 74.0



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: 116.72 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

Instrument :

MSVOA_N

ClientSampleId :

PB112339ZHE#02

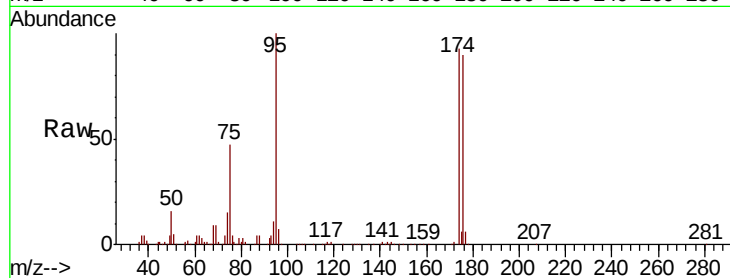
Tot Ion: 75 Resp: 175324

Ion Ratio Lower Upper

75 100

53 0.0 68.9 103.3#

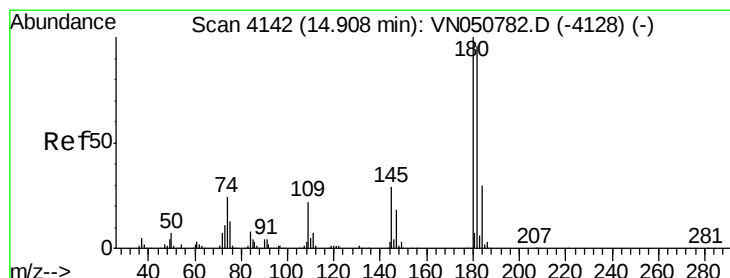
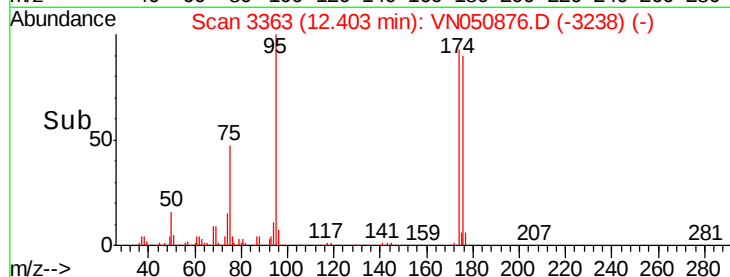
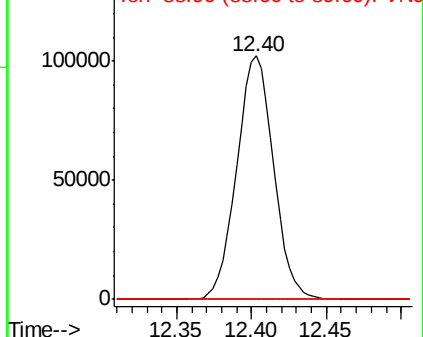
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 4.15 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. 0.00 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

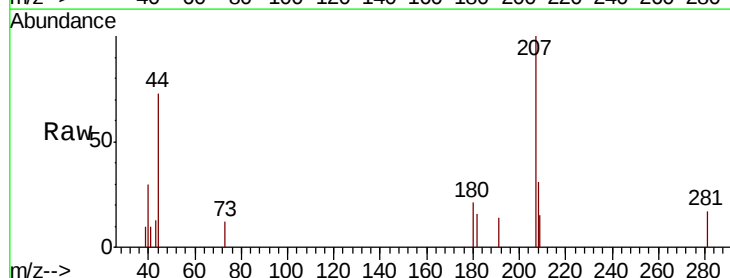
Tgt Ion: 180 Resp: 380

Ion Ratio Lower Upper

180 100

182 72.4 48.2 144.6

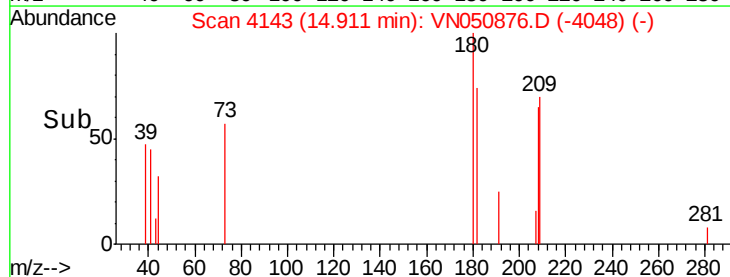
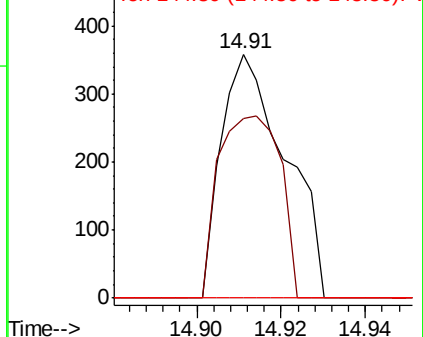
145 0.0 14.1 42.2#

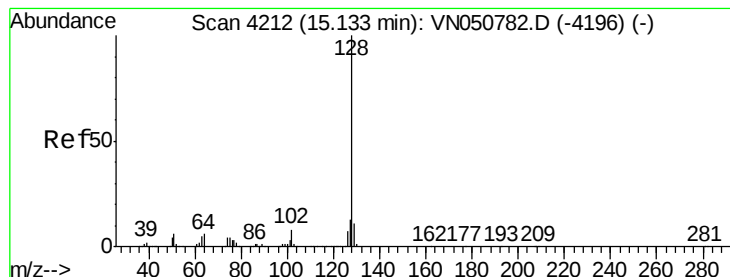


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 5.45 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

Instrument :

MSVOA_N

ClientSampleId :

PB112339ZHE#02

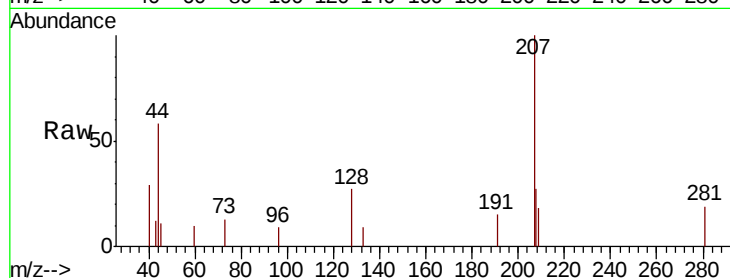
Tot Ion:128 Resp: 703

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

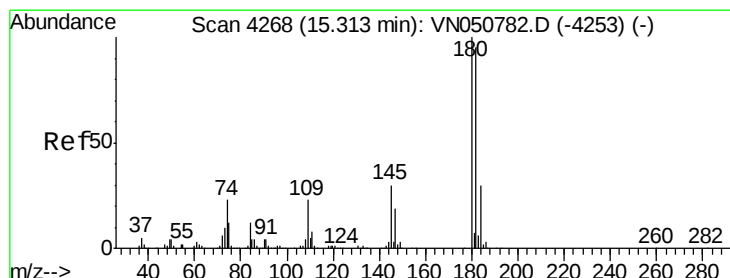
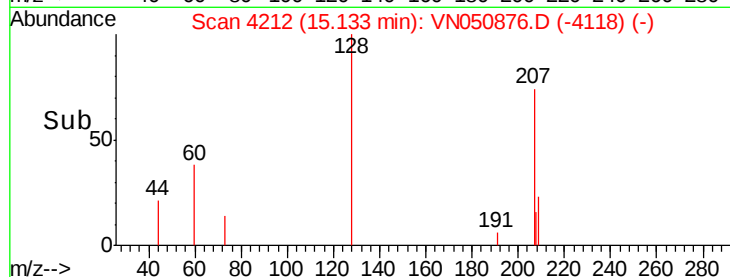
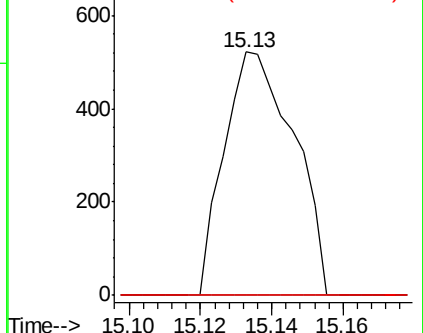
129 0.0 8.7 13.1#



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: 3.34 ug/l

RT: 15.31 min Scan# 4268

Delta R.T. 0.00 min

Lab File: VN050876.D

Acq: 24 Aug 2018 14:53

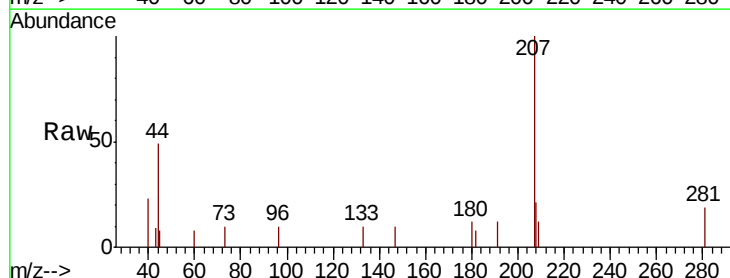
Tgt Ion:180 Resp: 257

Ion Ratio Lower Upper

180 100

182 61.1 48.0 144.2

145 0.0 15.2 45.6#



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

