

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021419\
 Data File : VL033228.D
 Acq On : 15 Feb 2019 12:19
 Operator : SY/AP
 Sample : K1483-06DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ZONE-GDL

Quant Time: Feb 18 11:33:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 06 09:13:11 2019
 QLast Update : Wed Feb 06 09:13:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	699453	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1547639	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1819442	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1471291	10.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.00%

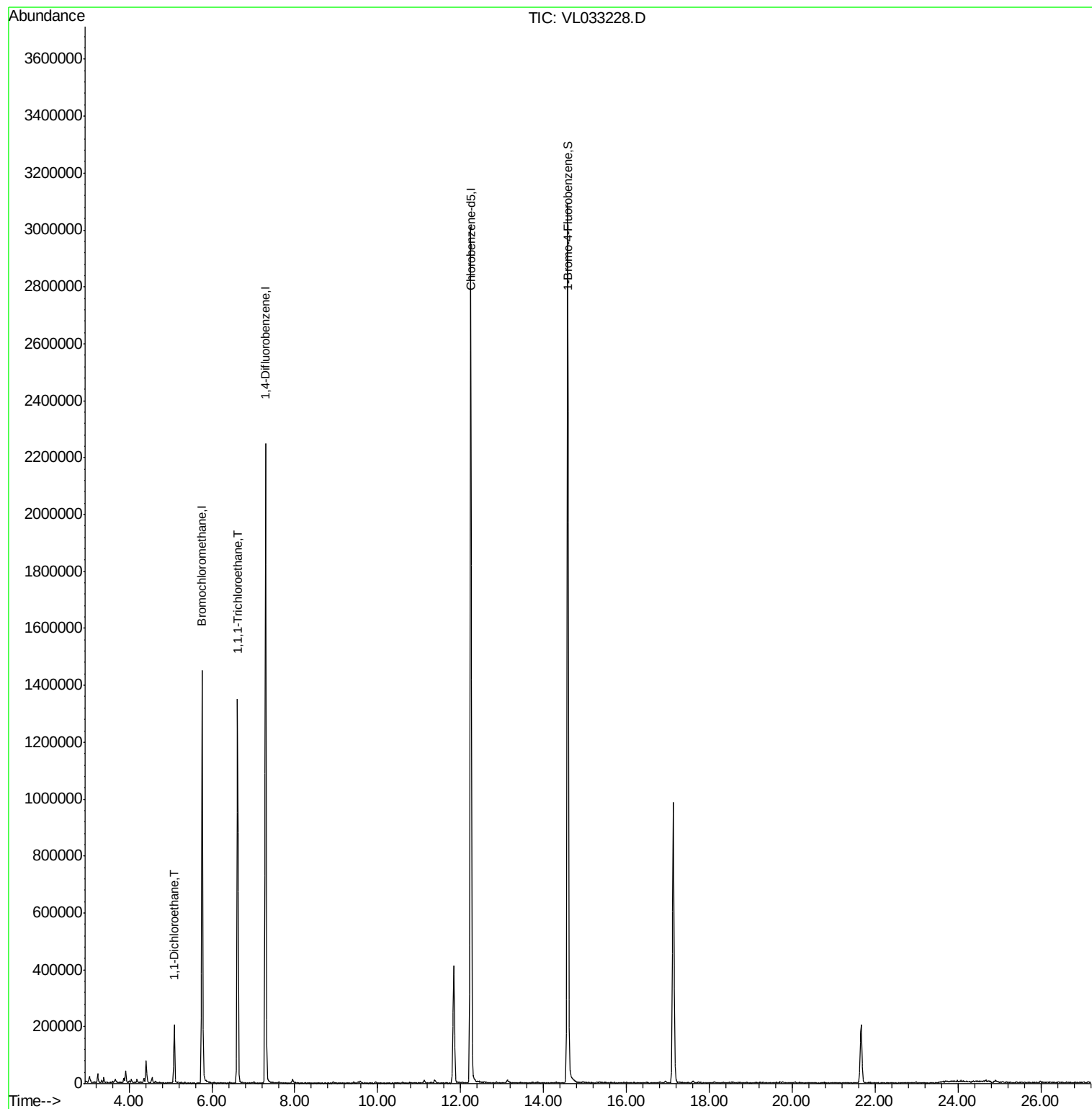
Target Compounds					Ovalue
24) 1,1-Dichloroethane	5.09	63	159378	1.650	ppbv 98
32) 1,1,1-Trichloroethane	6.62	97	811620	5.783	ppbv 97

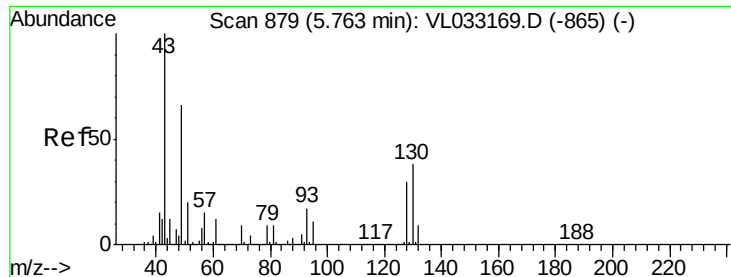
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033228.D

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Instrument :

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ZONE-GDL

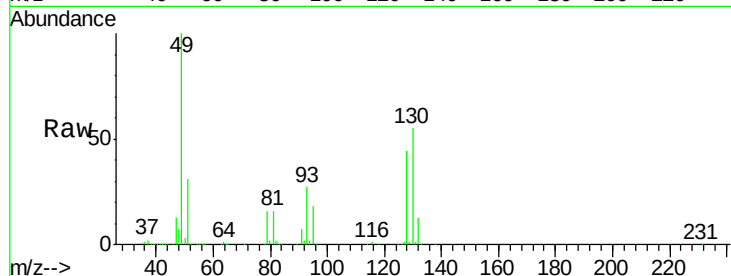
Tot Ion: 49 Resp: 699453

Ion Ratio Lower Upper

49 100

128 44.7 23.6 71.0

130 57.3 30.3 91.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.76

400000

300000

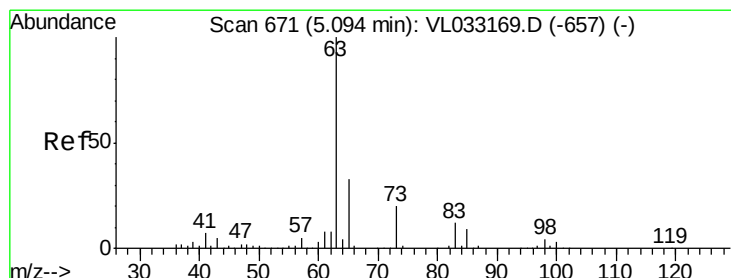
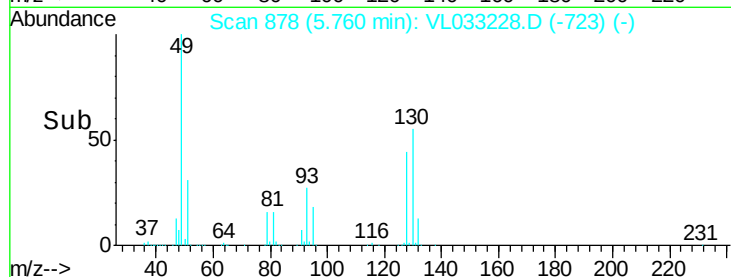
200000

100000

0

5.70 5.75 5.80 5.85

Time-->



#24

1,1-Dichloroethane

Concen: 1.650 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033228.D

Acq: 15 Feb 2019 12:19

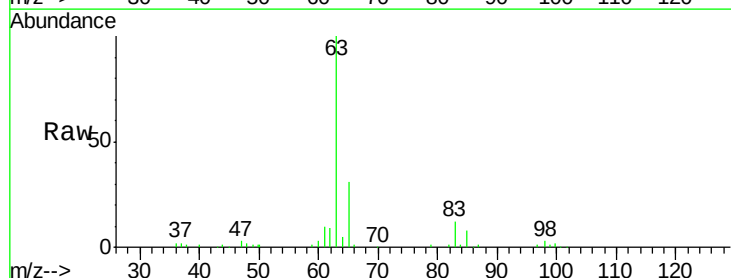
Tgt Ion: 63 Resp: 159378

Ion Ratio Lower Upper

63 100

98 3.3 2.1 6.5

100 2.3 1.4 4.2



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

5.09

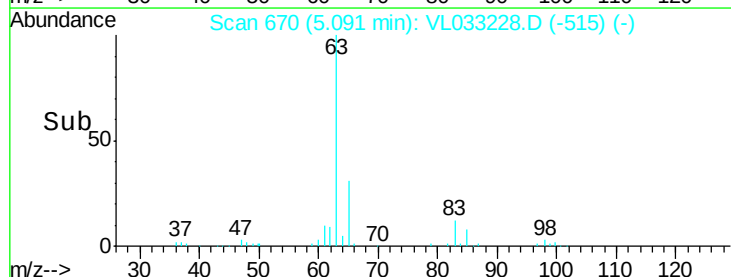
100000

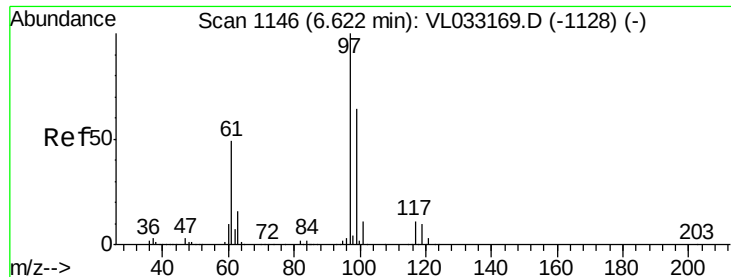
50000

0

5.05 5.10 5.15

Time-->





#32

1,1,1-Trichloroethane

Concen: 5.783 ppbv

RT: 6.62 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VL033228.D

Acq: 15 Feb 2019 12:19

Instrument :

MSVOA_L

ClientSampleId :

ZONE-GDL

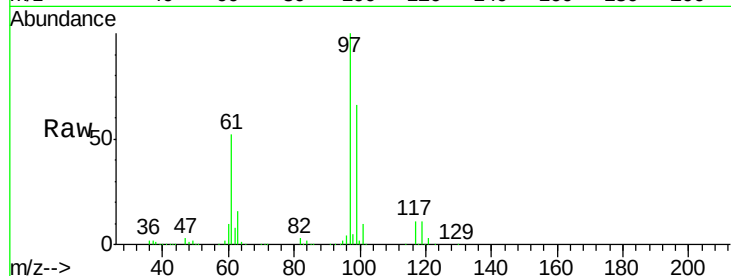
Tot Ion: 97 Resp: 811620

Ion Ratio Lower Upper

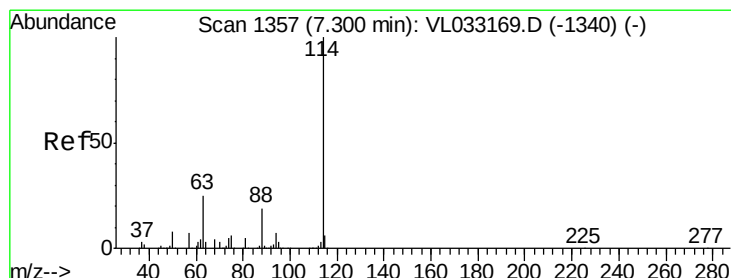
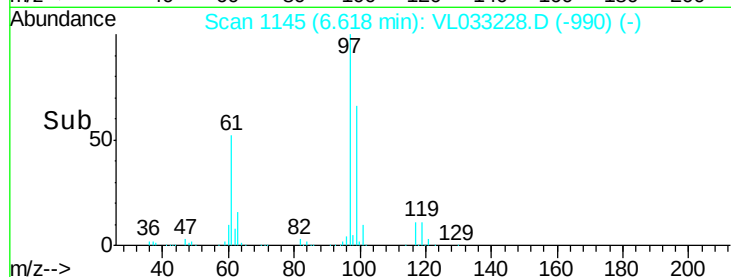
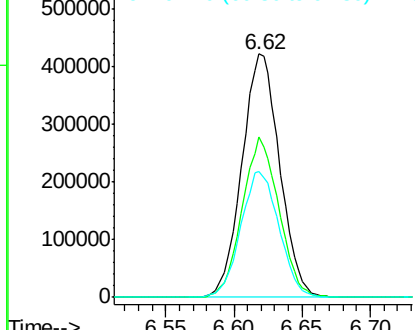
97 100

99 64.0 51.4 77.2

61 52.6 38.9 58.3



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1355

Delta R.T. -0.01 min

Lab File: VL033228.D

Acq: 15 Feb 2019 12:19

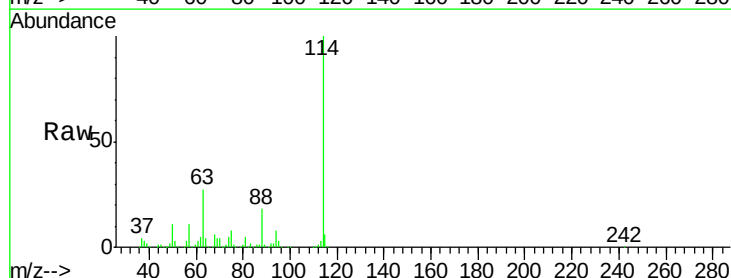
Tgt Ion: 114 Resp: 1547639

Ion Ratio Lower Upper

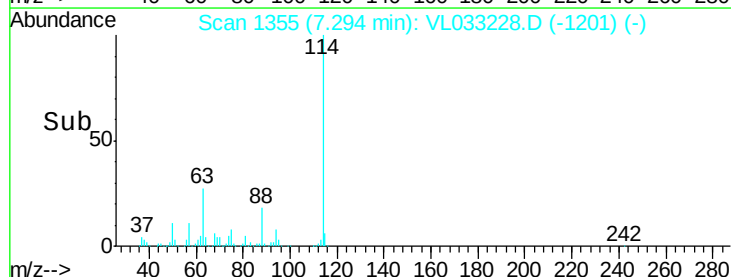
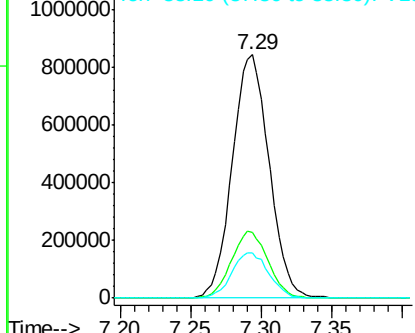
114 100

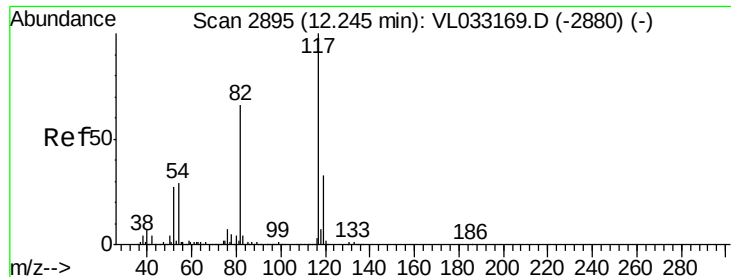
63 27.4 20.8 31.2

88 18.7 14.6 22.0



Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL033228.D

Acq: 15 Feb 2019 12:19

Instrument :

MSVOA_L

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ZONE-GDL

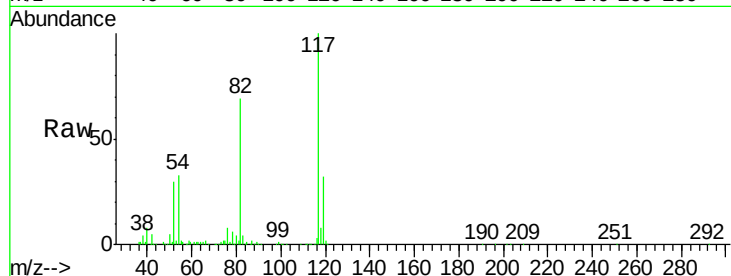
Tot Ion:117 Resp: 1819442

Ion Ratio Lower Upper

117 100

82 69.2 49.5 74.3

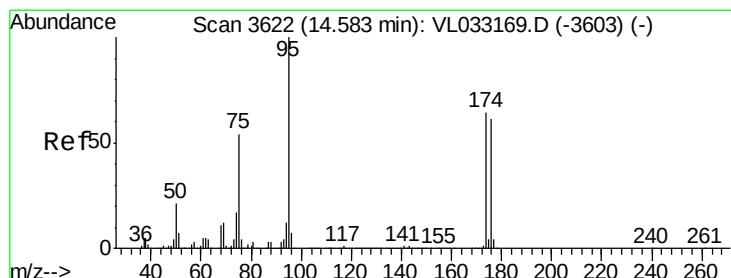
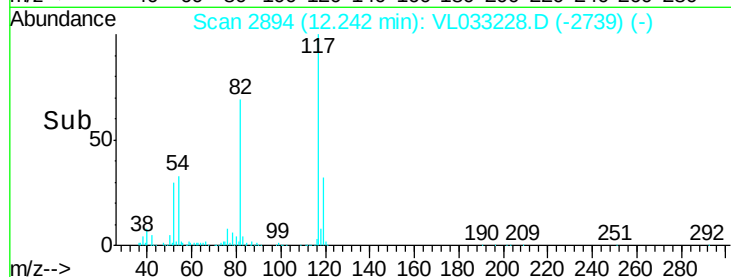
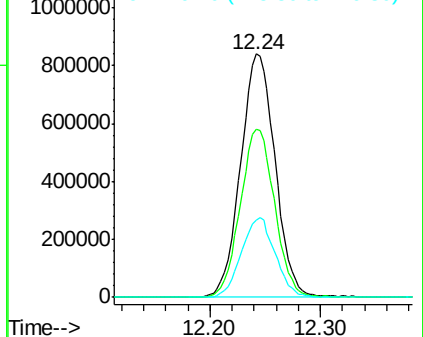
119 32.4 24.4 36.6



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.500 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033228.D

Acq: 15 Feb 2019 12:19

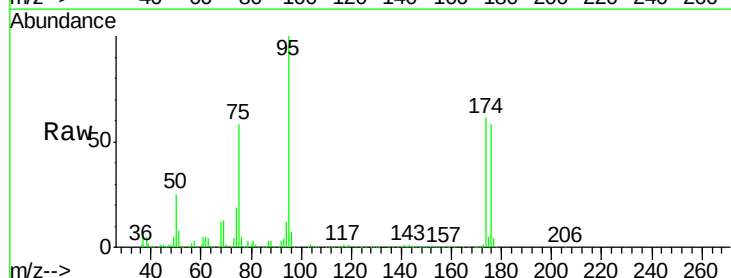
Tgt Ion: 95 Resp: 1471291

Ion Ratio Lower Upper

95 100

174 63.1 51.2 76.8

175 4.5 3.8 5.6



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

