

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101821\
 Data File : VL037863.D
 Acq On : 18 Oct 2021 21:53
 Operator : SY/AP
 Sample : QC101221 CAN 10283
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC101221 CAN 10283

Quant Time: Oct 19 08:35:20 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1173277	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3482203	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2927582	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2045971	9.99	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.90%

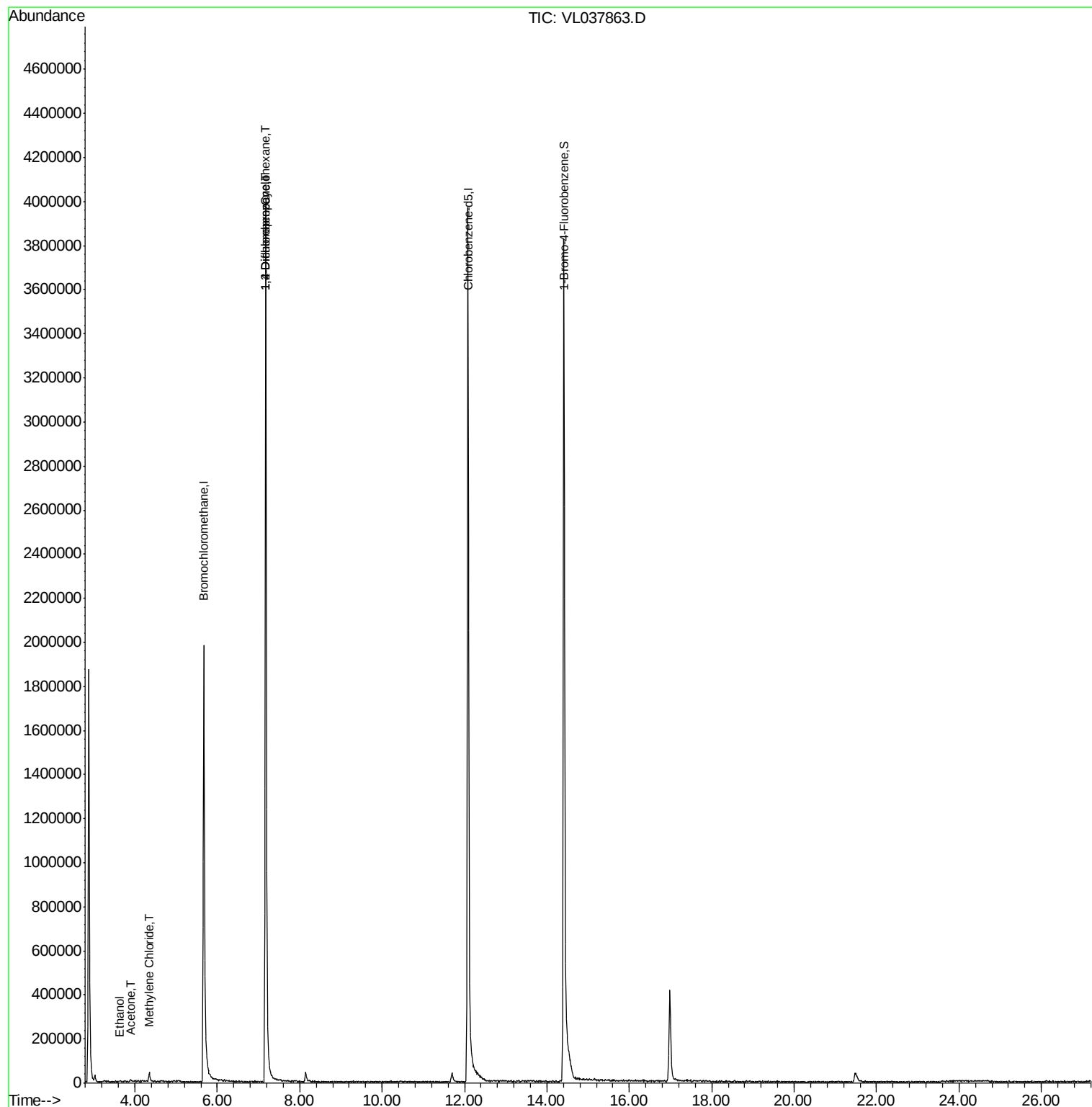
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Ethanol	3.62	45	571	0.084	ppbv #	27
15) Acetone	3.89	43	6714	0.064	ppbv #	61
20) Methylene Chloride	4.35	84	14350	0.270	ppbv	88
30) Cyclohexane	7.16	84	7457	0.060	ppbv #	1
39) 1,2-Dichloropropane	7.18	63	800846	7.158	ppbv #	29

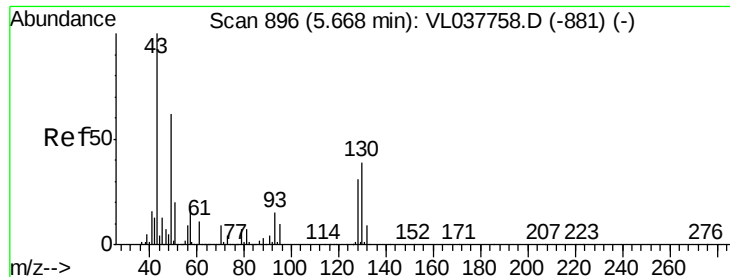
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 18 Oct 2021 21:53

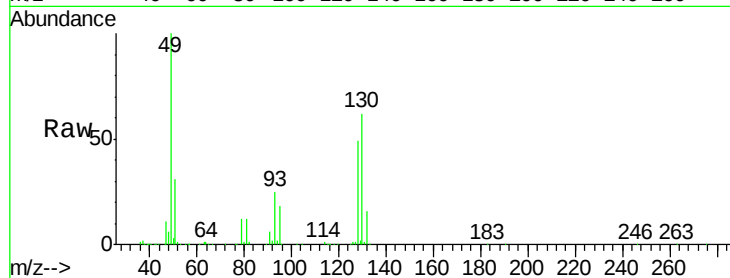
Tgt Ion: 49 Resp: 1173277

Ion Ratio Lower Upper

49 100

128 55.3 27.1 81.3

130 71.0 33.2 99.6



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

5.67

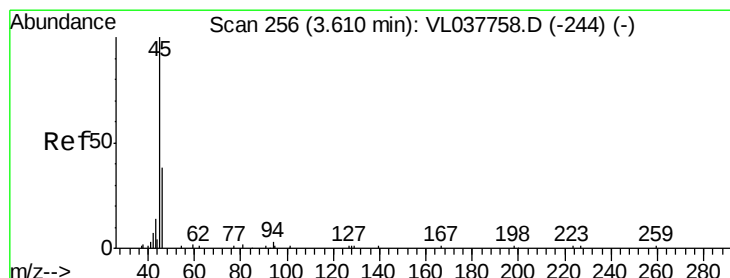
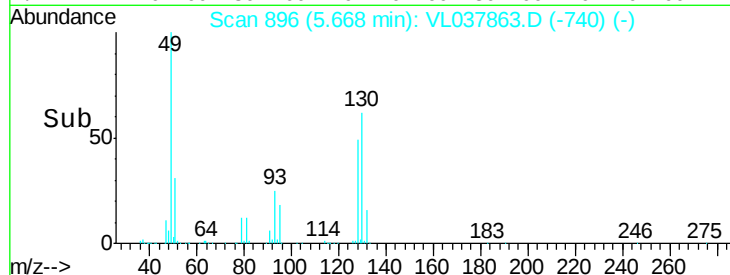
400000

200000

0

5.60 5.65 5.70 5.75

Time-->



#13

Ethanol

Concen: 0.084 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL037863.D

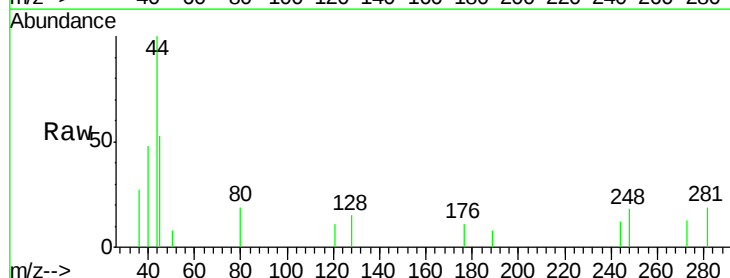
Acq: 18 Oct 2021 21:53

Tgt Ion: 45 Resp: 571

Ion Ratio Lower Upper

45 100

46 0.0 20.2 81.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

1500

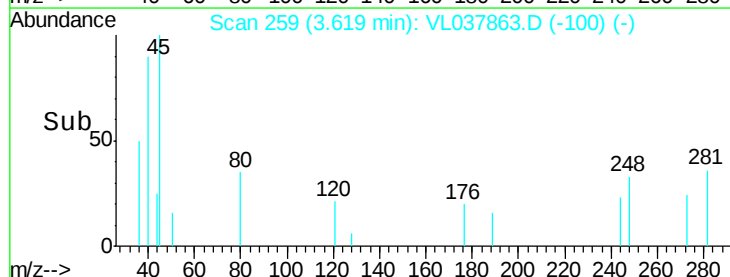
1000

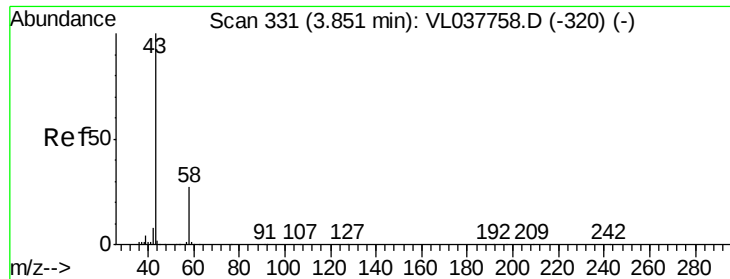
500

0

3.61 3.62 3.63

Time-->





#15

Acetone

Concen: 0.064 ppbv

RT: 3.89 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

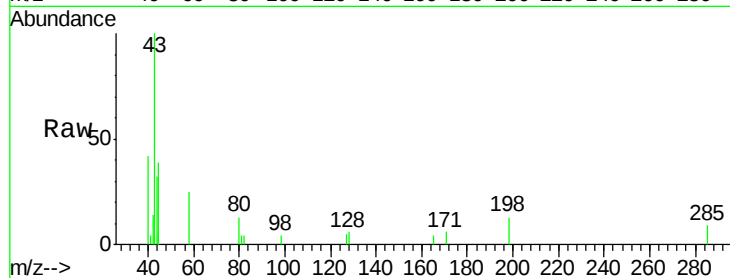
Acq: 18 Oct 2021 21:53 QC101221 CAN 10283

Tgt Ion: 43 Resp: 6714

Ion Ratio Lower Upper

43 100

58 49.6 23.0 34.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.89

4000

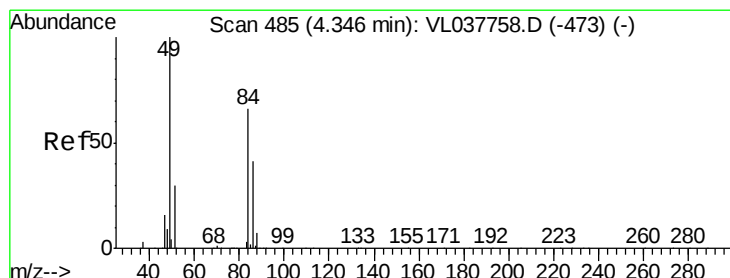
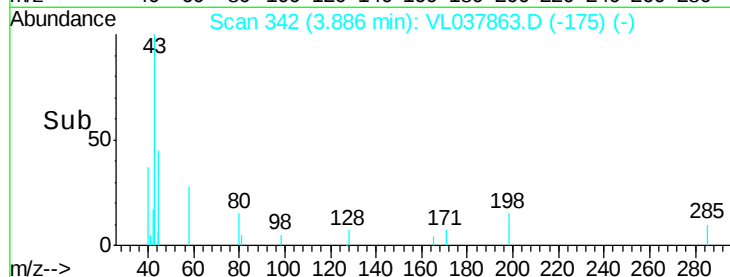
3000

2000

1000

0

Time--> 3.84 3.86 3.88 3.90 3.92



#20

Methylene Chloride

Concen: 0.270 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.00 min

Lab File: VL037863.D

Acq: 18 Oct 2021 21:53

Tgt Ion: 84 Resp: 14350

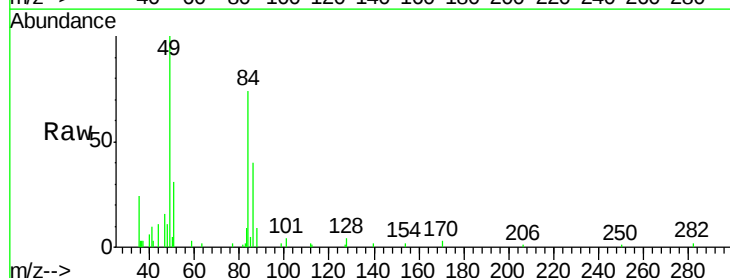
Ion Ratio Lower Upper

84 100

49 132.9 120.7 181.1

51 41.8 36.2 54.4

86 54.3 49.6 74.4



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

20000

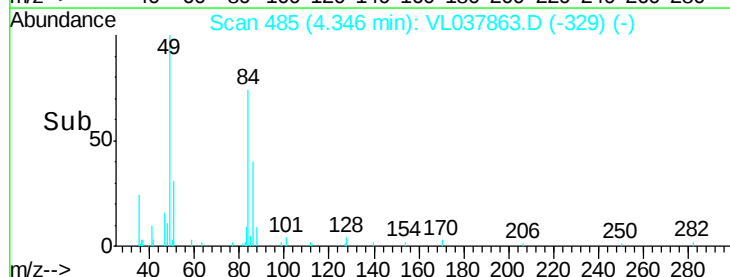
15000

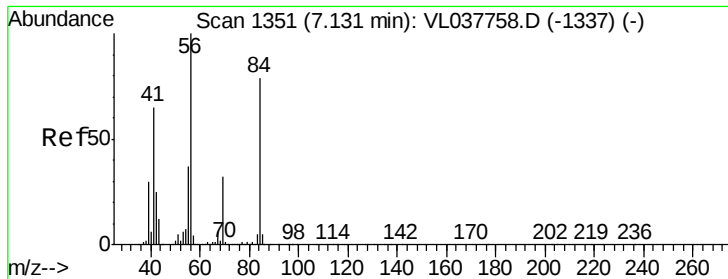
10000

5000

0

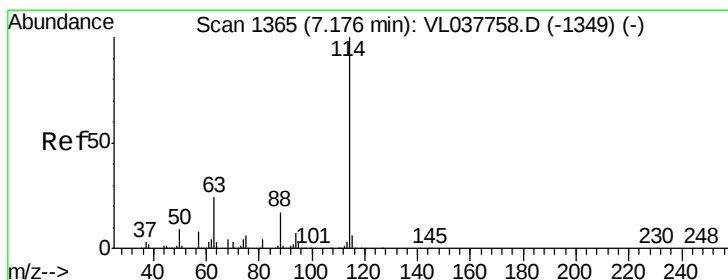
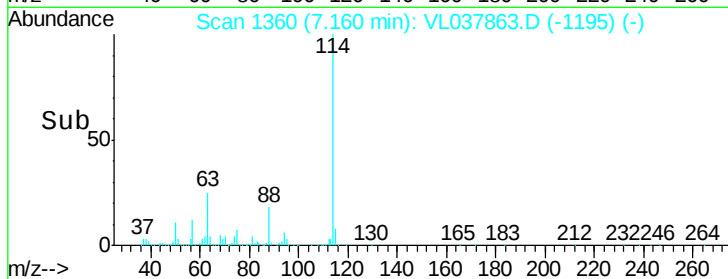
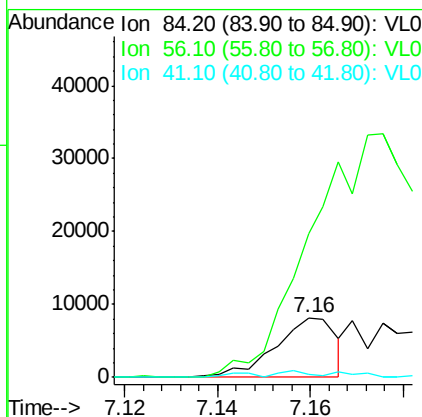
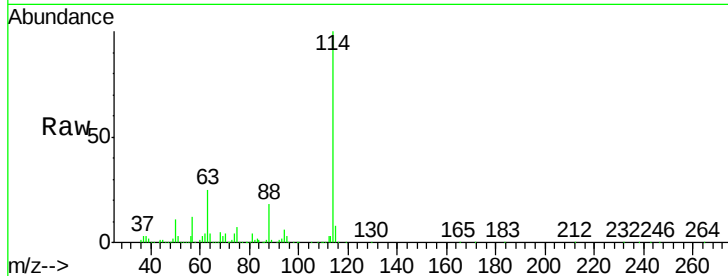
Time--> 4.30 4.32 4.34 4.36 4.38





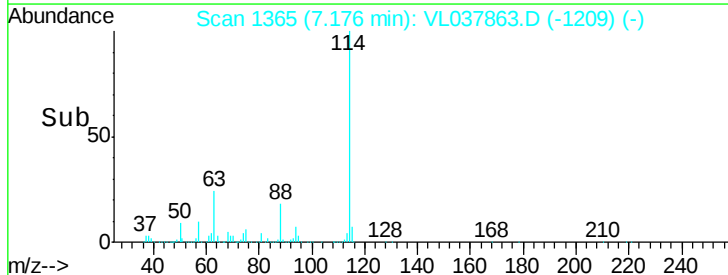
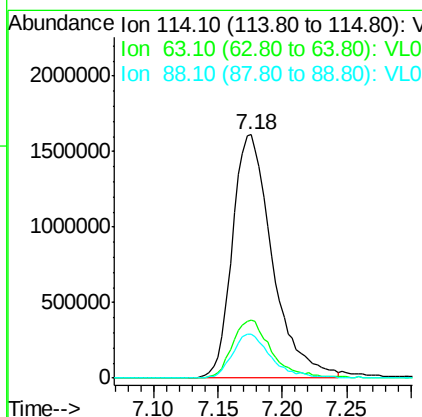
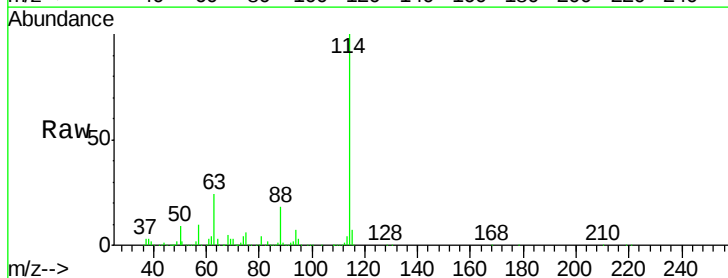
#30
Cyclohexane
Concen: 0.060 ppbv
RT: 7.16 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 18 Oct 2021 21:53

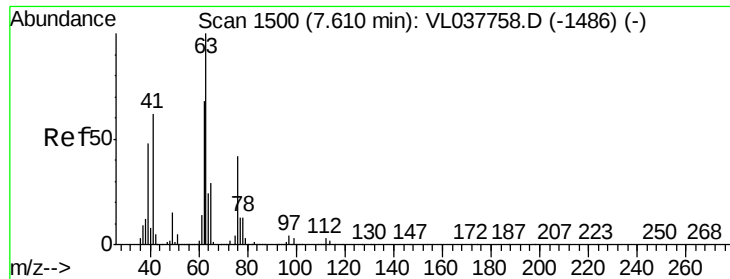
Tgt Ion: 84 Resp: 7457
Ion Ratio Lower Upper
84 100
56 0.0 113.0 169.4#
41 13.7 69.1 103.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T.: 0.00 min
Lab File: VL037863.D
Acq: 18 Oct 2021 21:53

Tgt Ion: 114 Resp: 3482203
Ion Ratio Lower Upper
114 100
63 23.8 19.4 29.2
88 18.0 14.4 21.6





#39

1,2-Dichloropropane

Concen: 7.158 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 18 Oct 2021 21:53 QC101221 CAN 10283

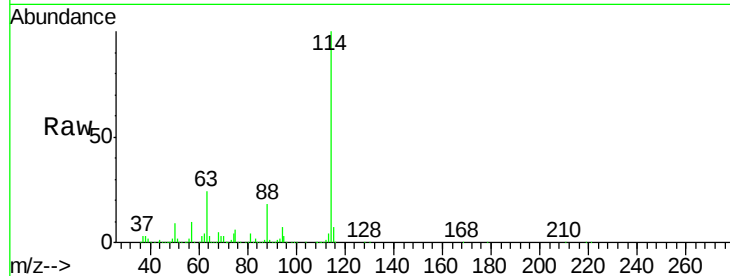
Tgt Ion: 63 Resp: 800846

Ion Ratio Lower Upper

63 100

41 0.0 49.8 74.6#

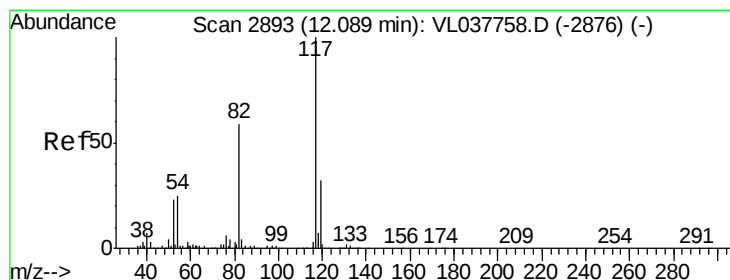
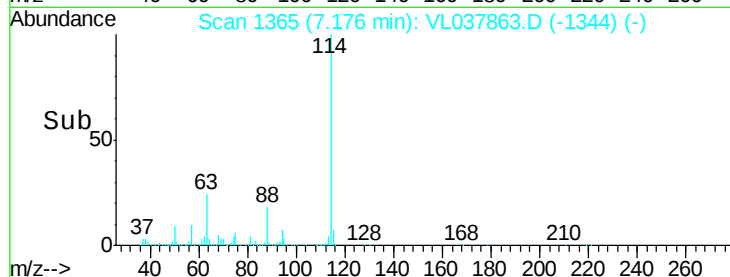
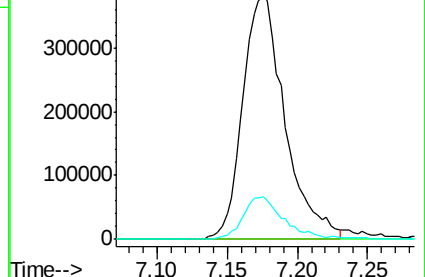
62 17.4 54.6 82.0#



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.00 min

Lab File: VL037863.D

Acq: 18 Oct 2021 21:53

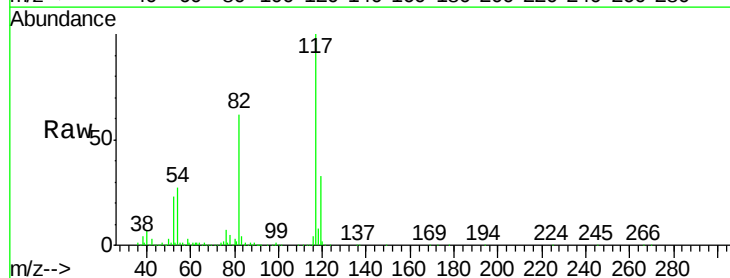
Tgt Ion: 117 Resp: 2927582

Ion Ratio Lower Upper

117 100

82 64.9 52.2 78.2

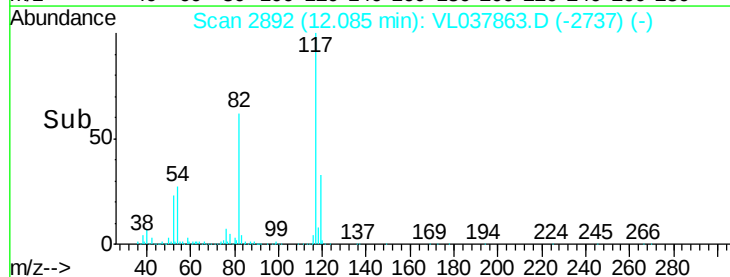
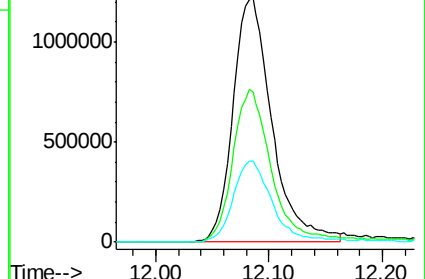
119 34.1 26.0 39.0

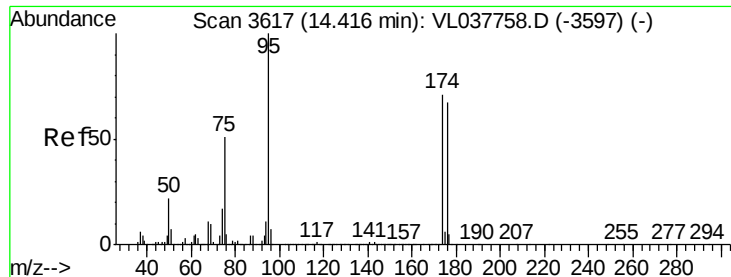


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.994 ppbv

RT: 14.41 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 18 Oct 2021 21:55 QC101221 CAN 10283

Tgt Ion: 95 Resp: 2045971

Ion Ratio Lower Upper

95 100

174 76.0 57.8 86.6

175 5.6 4.7 7.1

