

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL111919\
 Data File : VL034398.D
 Acq On : 20 Nov 2019 3:27
 Operator : SY/AP
 Sample : K5924-03DL2 40X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL2

Quant Time: Nov 20 04:07:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov 20 03:30:54 2019
 QLast Update : Wed Nov 20 03:30:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	913819	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1764423	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1773195	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1527663	10.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

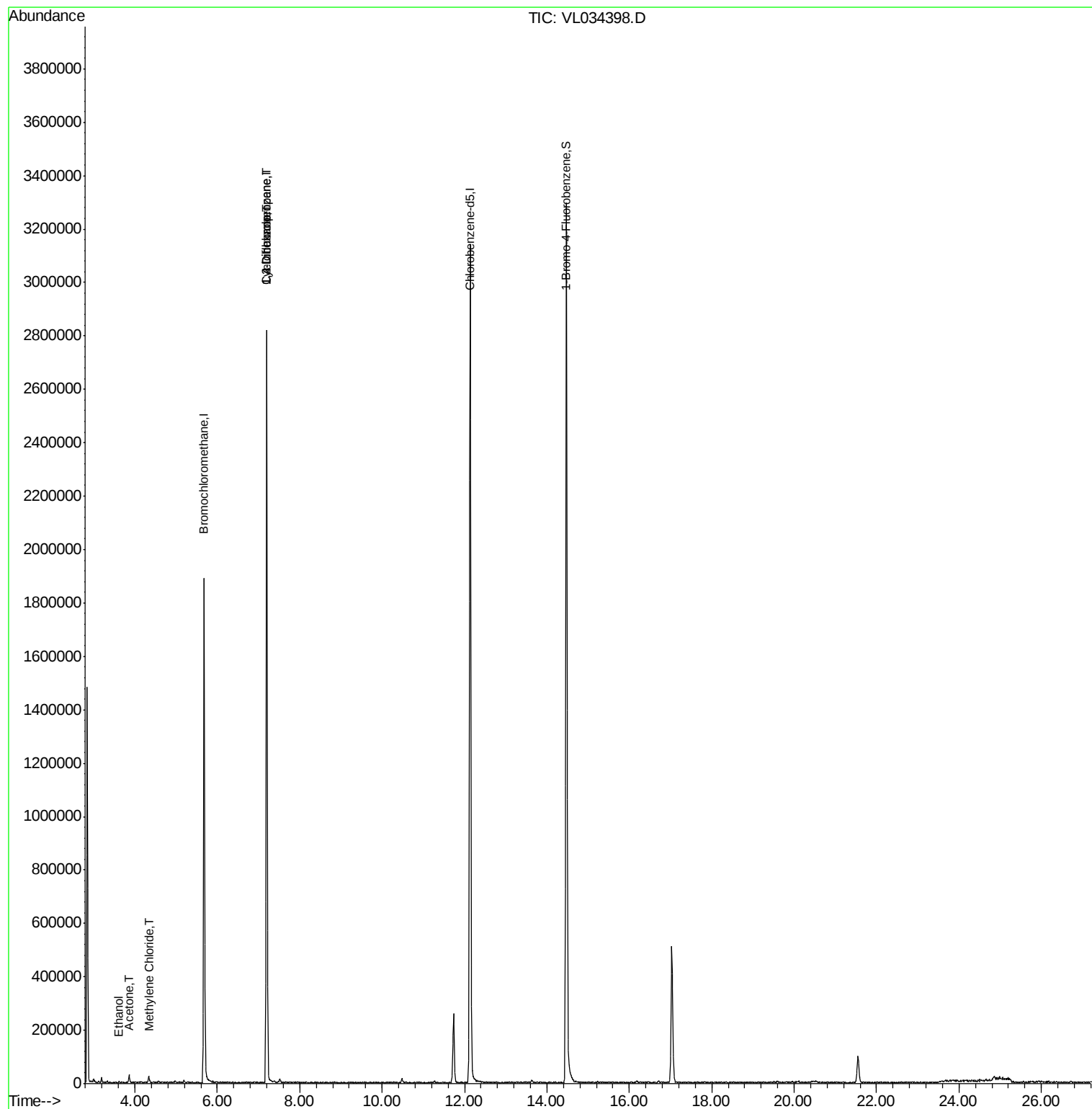
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Ethanol	3.61	45	1121	0.076	ppbv #	40
15) Acetone	3.85	43	25607	0.196	ppbv #	81
20) Methylene Chloride	4.33	84	1535	0.033	ppbv #	55
30) Cyclohexane	7.19	84	3131	0.041	ppbv #	1
39) 1,2-Dichloropropane	7.20	63	533843	7.140	ppbv #	23

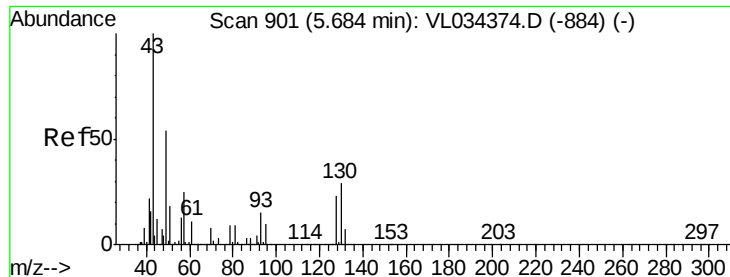
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. -0.01 min

Lab File: VL034398.D

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MSVOA_L

ClientSampleId :

QA1DL2

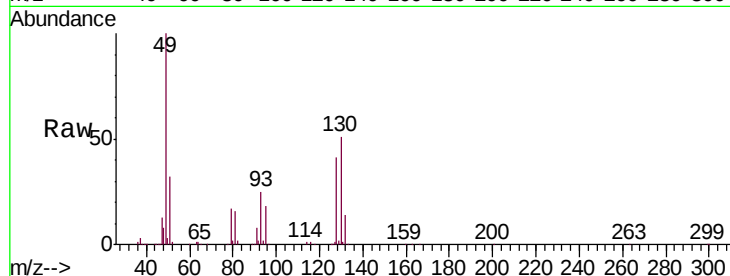
Tgt Ion: 49 Resp: 913819

Ion Ratio Lower Upper

49 100

128 42.4 21.8 65.3

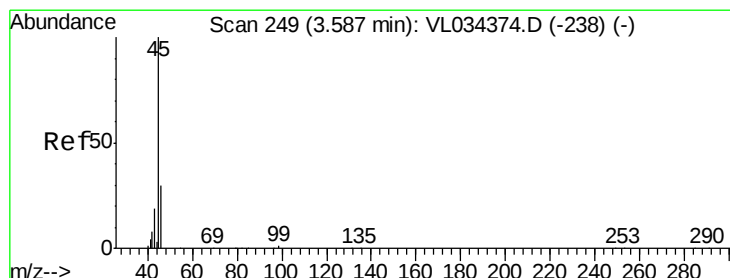
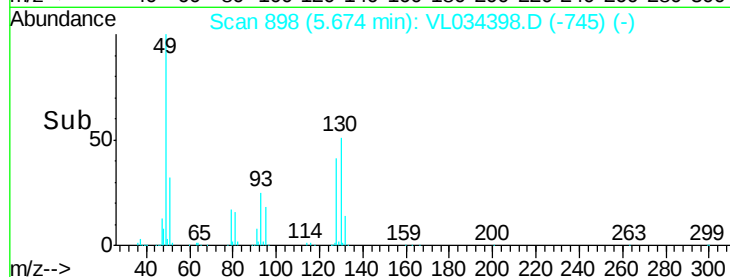
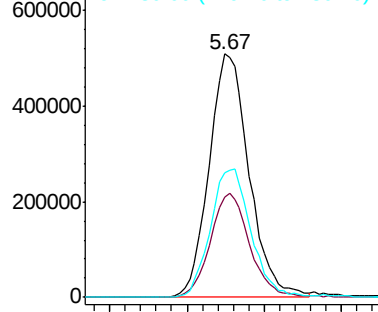
130 54.5 28.0 84.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#13

Ethanol

Concen: 0.076 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.02 min

Lab File: VL034398.D

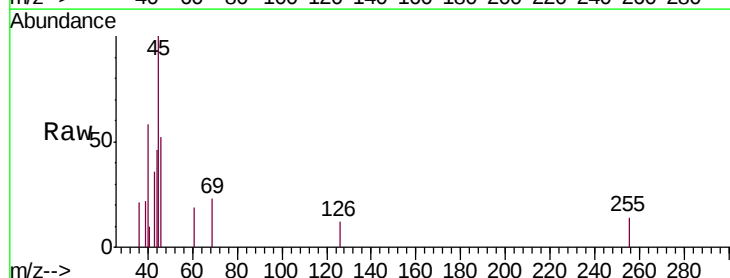
Acq: 20 Nov 2019 3:27

Tgt Ion: 45 Resp: 1121

Ion Ratio Lower Upper

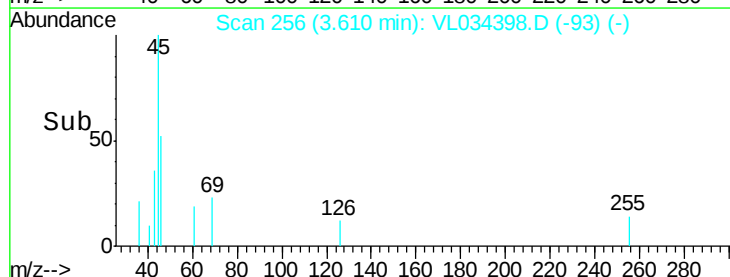
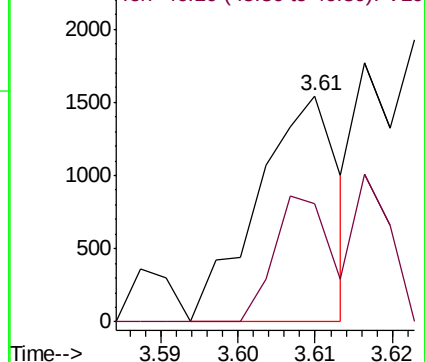
45 100

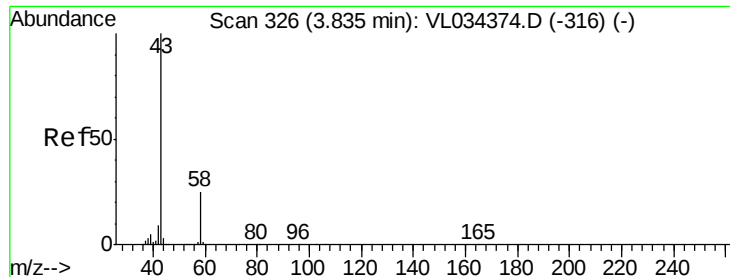
46 0.0 13.8 55.4#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.196 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.02 min

Lab File: VL034398.D

Acq: 20 Nov 2019 3:27

Instrument :

MSVOA_L

ClientSampleId :

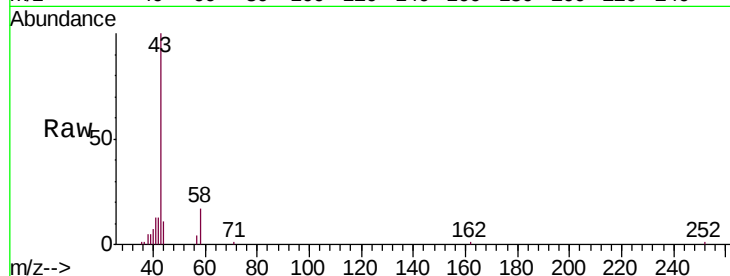
QA1DL2

Tgt Ion: 43 Resp: 25607

Ion Ratio Lower Upper

43 100

58 34.8 20.2 30.4#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.85

20000

15000

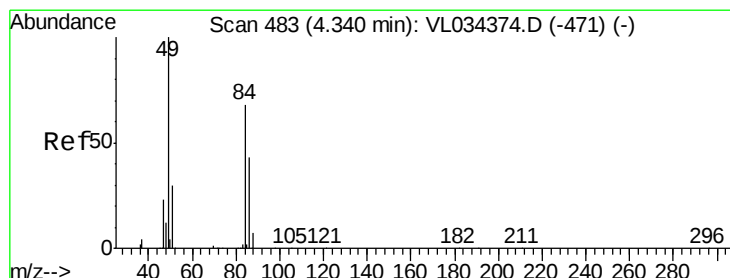
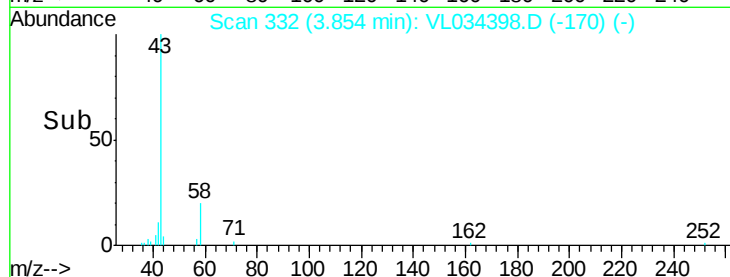
10000

5000

0

Time-->

3.82 3.84 3.86 3.88



#20

Methylene Chloride

Concen: 0.033 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL034398.D

Acq: 20 Nov 2019 3:27

Tgt Ion: 84 Resp: 1535

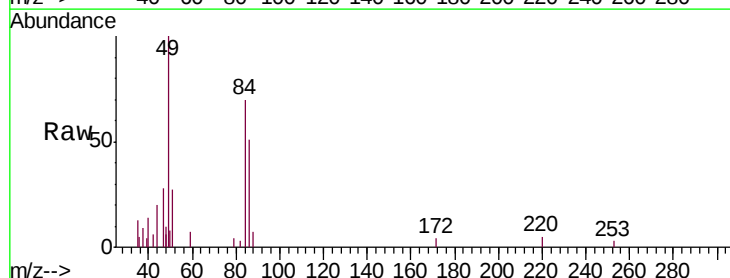
Ion Ratio Lower Upper

84 100

49 81.0 116.8 175.2#

51 9.3 35.6 53.4#

86 45.5 50.7 76.1#



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

12000

10000

8000

6000

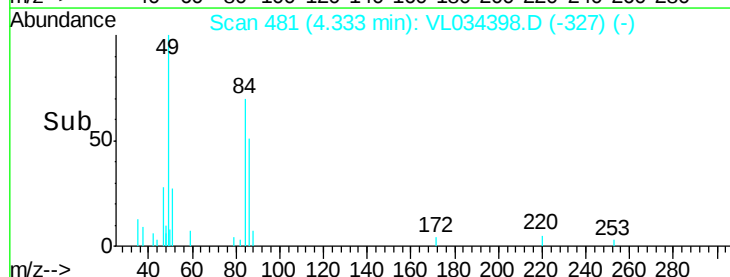
4000

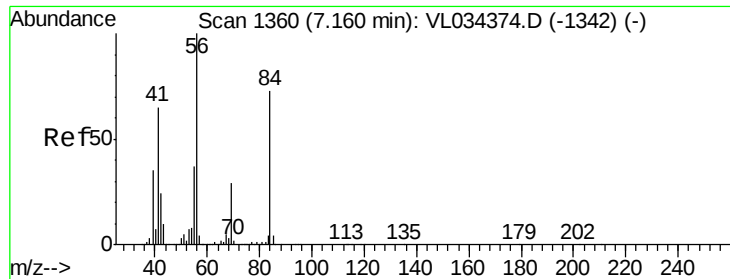
2000

0

Time-->

4.33 4.34

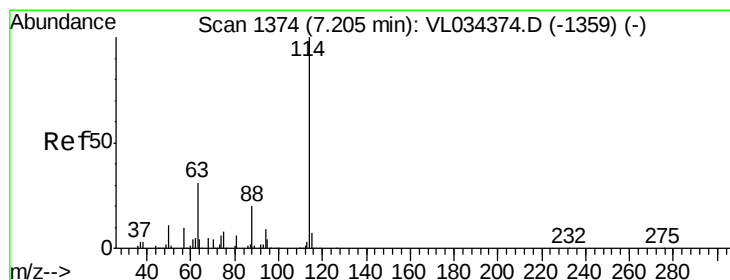
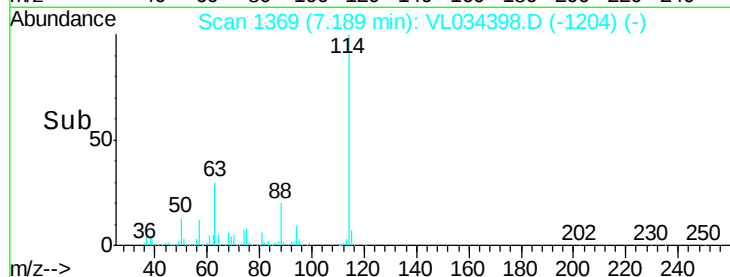
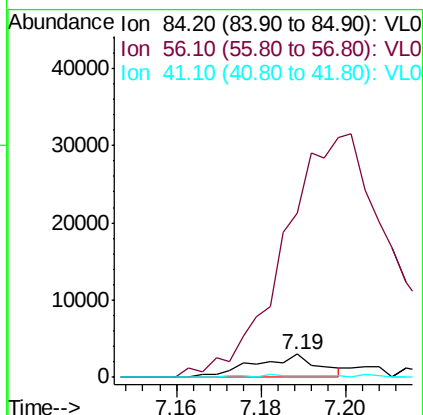
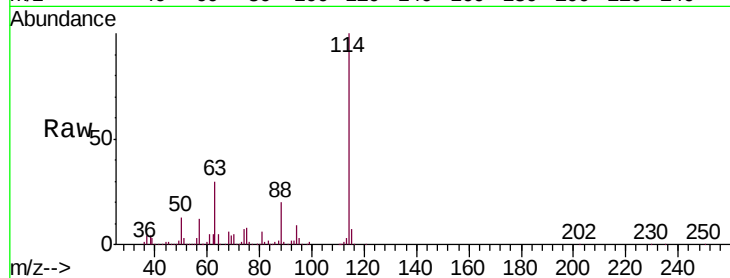




#30
Cyclohexane
Concen: 0.041 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.03 min
Lab File: VL034398.D
Acq: 20 Nov 2019 3:27

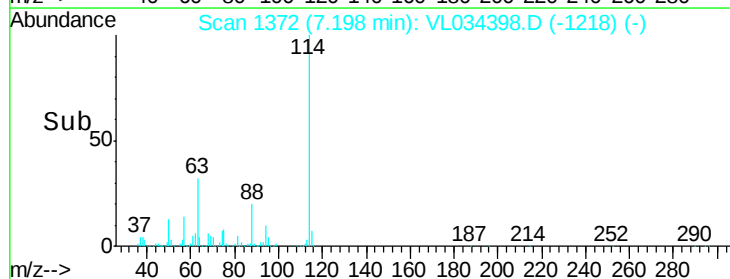
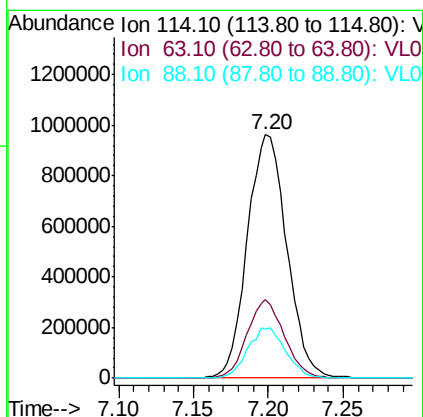
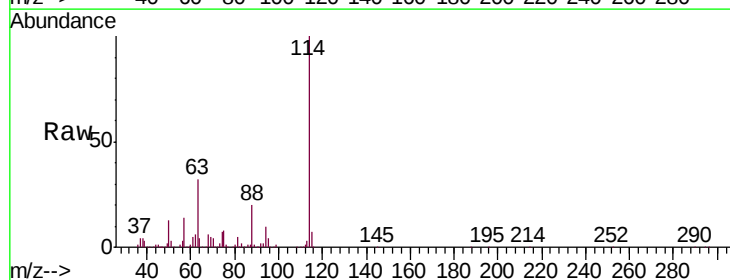
Instrument :
MSVOA_L
ClientSampleId :
OA1DL2

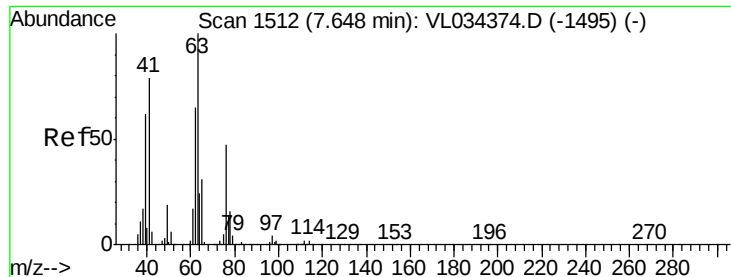
Tgt Ion: 84 Resp: 3131
Ion Ratio Lower Upper
84 100
56 0.0 112.6 169.0#
41 16.3 73.4 110.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1372
Delta R.T. -0.01 min
Lab File: VL034398.D
Acq: 20 Nov 2019 3:27

Tgt Ion: 114 Resp: 1764423
Ion Ratio Lower Upper
114 100
63 30.5 24.2 36.4
88 19.9 15.9 23.9





#39

1,2-Dichloropropane

Concen: 7.140 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. -0.45 min

Lab File: VL034398.D

Acq: 20 Nov 2019 3:27

Instrument :

MSVOA_L

ClientSampleId :

QA1DL2

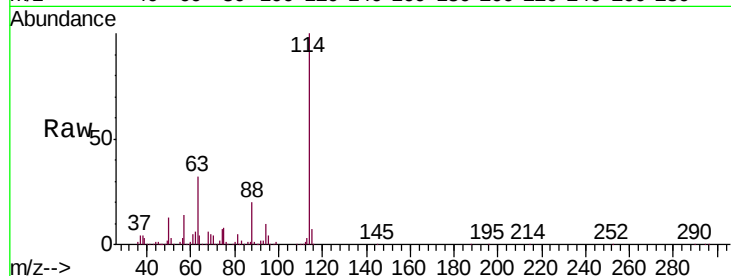
Tgt Ion: 63 Resp: 533843

Ion Ratio Lower Upper

63 100

41 0.1 63.1 94.7#

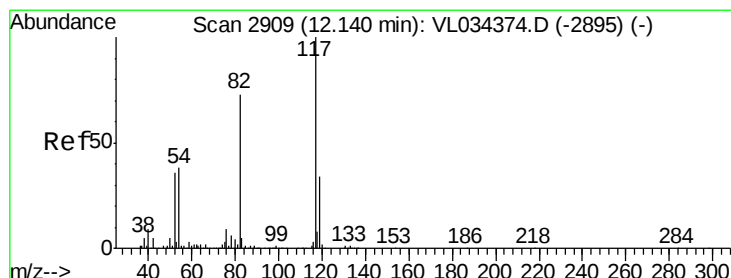
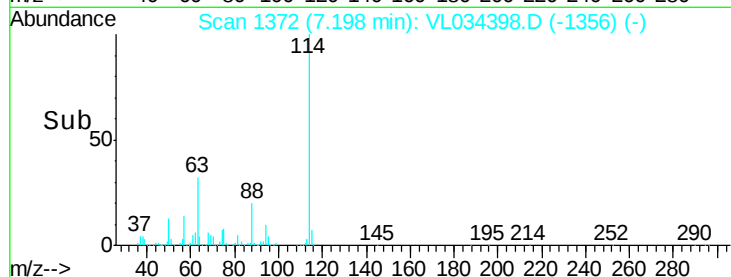
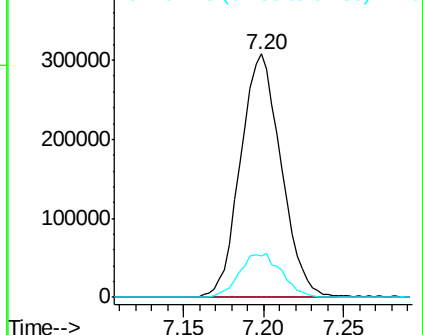
62 17.3 52.3 78.5#



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: 12.14 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VL034398.D

Acq: 20 Nov 2019 3:27

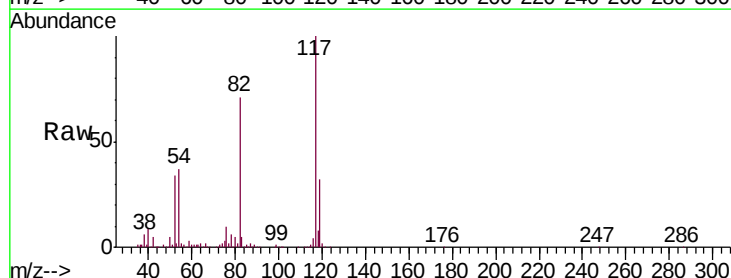
Tgt Ion: 117 Resp: 1773195

Ion Ratio Lower Upper

117 100

82 73.2 57.5 86.3

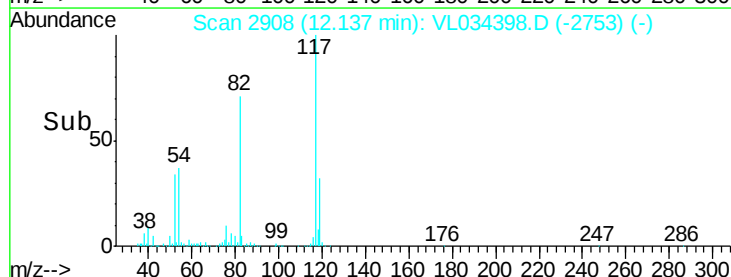
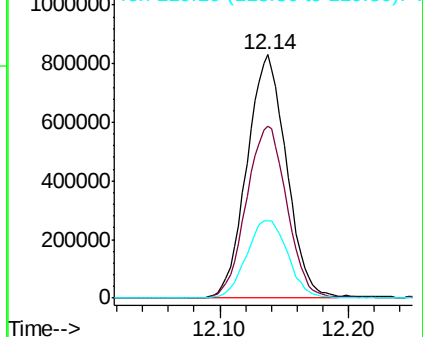
119 33.6 25.4 38.2

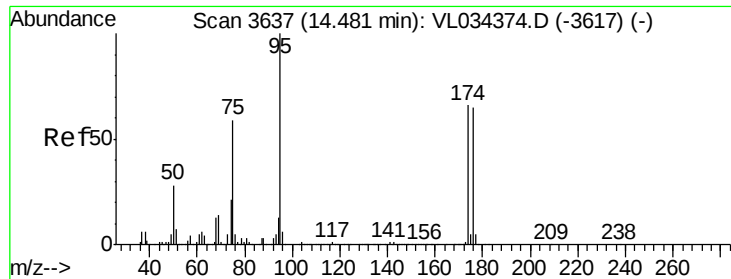


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.241 ppbv

RT: 14.47 min Scan# 3635

Delta R.T. -0.01 min

Lab File: VL034398.D

Acq: 20 Nov 2019 3:27

Instrument :

MSVOA_L

ClientSampleId :

QA1DL2

Tgt Ion: 95 Resp: 1527663

Ion Ratio Lower Upper

95 100

174 64.9 52.2 78.2

175 4.7 3.8 5.8

