

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031720\  
 Data File : VL034923.D  
 Acq On : 17 Mar 2020 20:03  
 Operator : SY/AP  
 Sample : L1952-03DL 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-2DL

Manual Integrations  
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 3/18/2020 5:35:55 PM

Quant Time: Mar 18 17:23:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar 0  
 QLast Update : Mon Mar 09 16:42:53 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.65  | 49   | 1065304  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 2288307  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.11 | 117  | 2245810  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.44  | 95    | 1869475  | 10.67    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 106.70% |

| Target Compounds |      |    |        |             | Ovalue |
|------------------|------|----|--------|-------------|--------|
| 13) Ethanol      | 3.57 | 45 | 285443 | 16.525 ppbv | 95     |
| 15) Acetone      | 3.83 | 43 | 180440 | 1.307 ppbv  | 95     |
| 26) Hexane       | 5.67 | 57 | 17063m | 0.161 ppbv  |        |

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

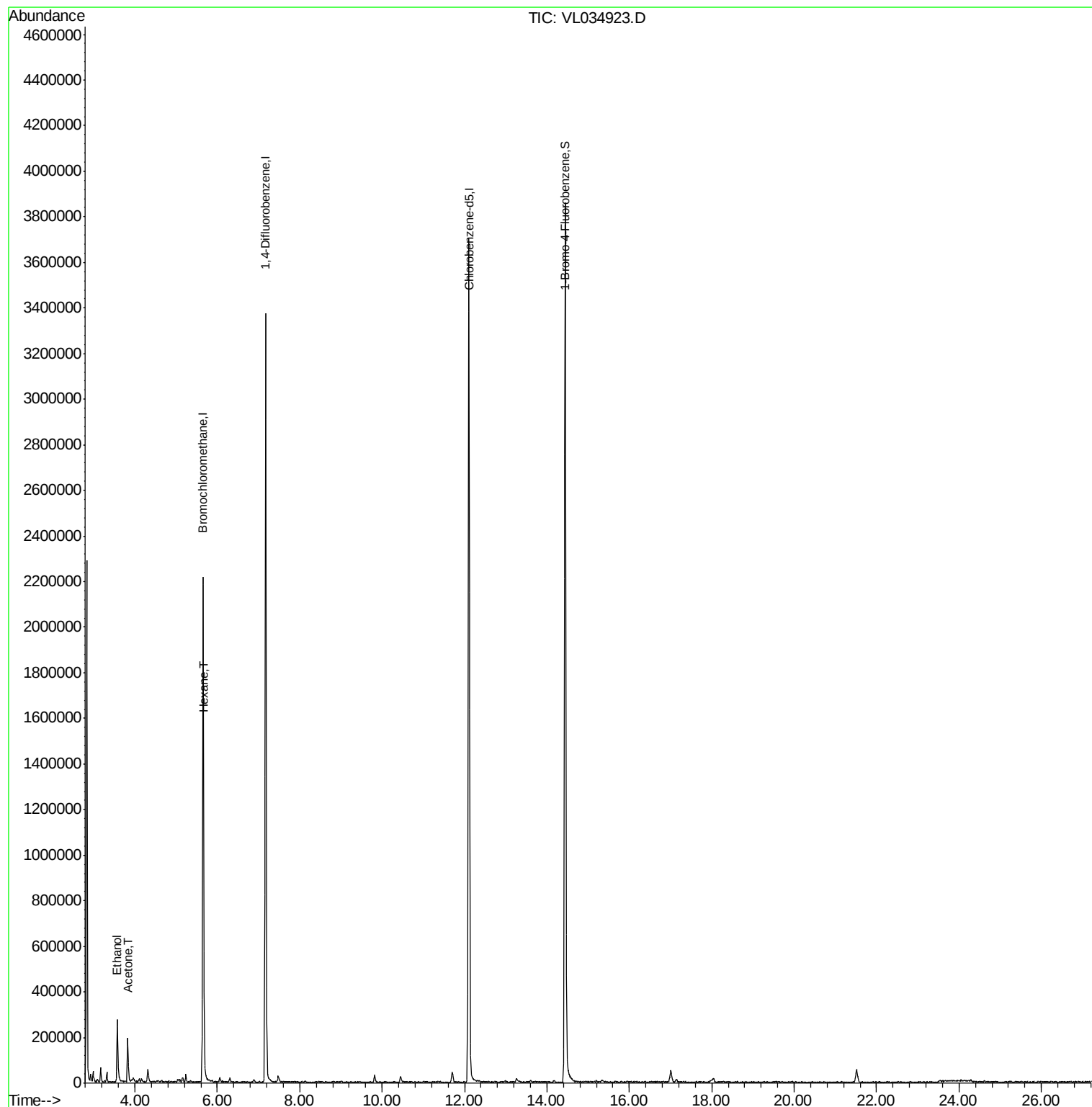
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031720\  
Data File : VL034923.D  
Acq On : 17 Mar 2020 20:03  
Operator : SY/AP  
Sample : L1952-03DL 10X  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

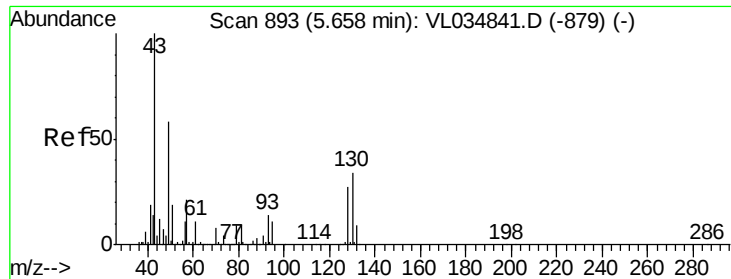
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DL

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Quant Time: Mar 18 17:23:22 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Mar  
QLast Update : Mon Mar 09 16:42:53 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL034923.D

Acq: 17 Mar 2020 20:03

Instrument :

MSVOA\_L

ClientSampled :

IA-2DL

Tot Ion: 49 Resp: 1065304

Ion Ratio Lower Upper

49 100

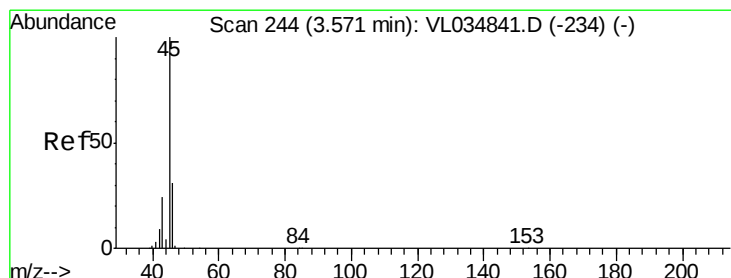
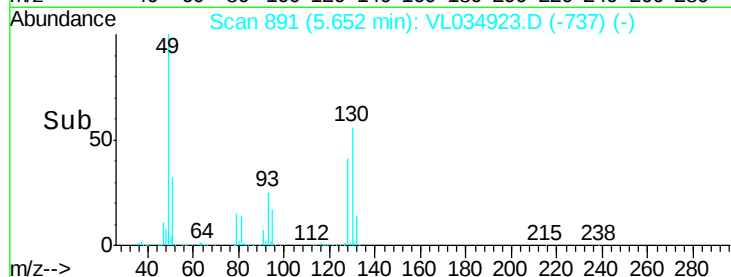
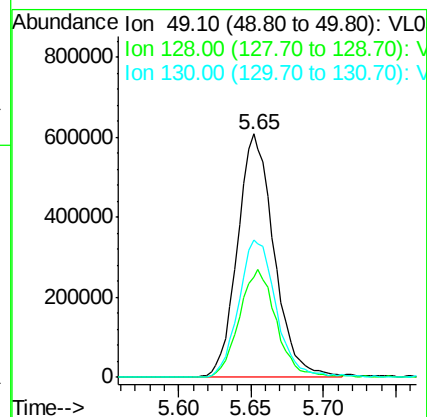
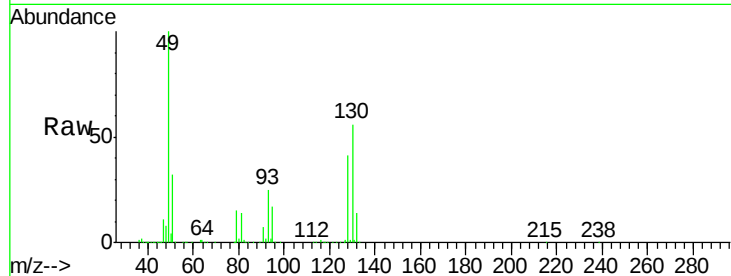
128 45.0 23.4 70.3

130 58.1 30.0 90.0

Manual Integrations  
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#13

Ethanol

Concen: 16.525 ppbv

RT: 3.57 min Scan# 243

Delta R.T. -0.00 min

Lab File: VL034923.D

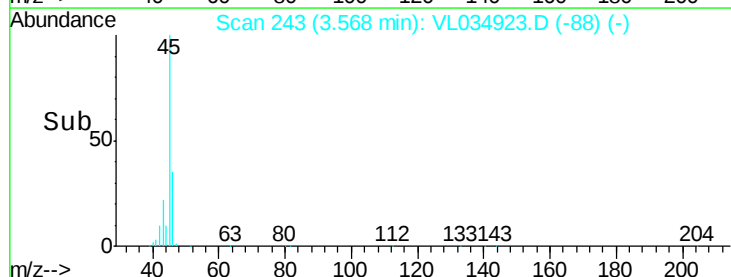
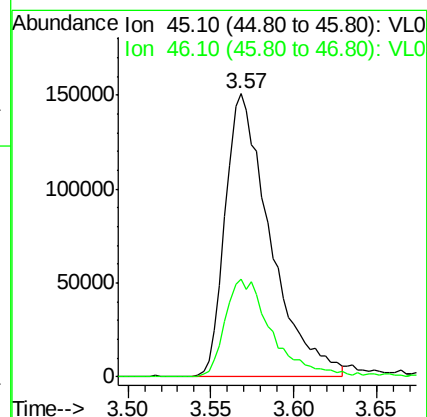
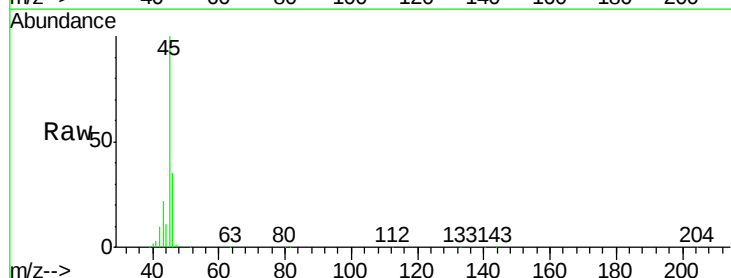
Acq: 17 Mar 2020 20:03

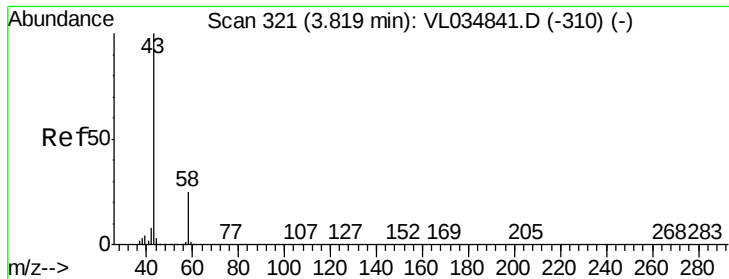
Tgt Ion: 45 Resp: 285443

Ion Ratio Lower Upper

45 100

46 36.7 16.0 64.0





#15

Acetone

Concen: 1.307 ppbv

RT: 3.83 min Scan# 323

Delta R.T. 0.01 min

Lab File: VL034923.D

Acq: 17 Mar 2020 20:03

Instrument :

MSVOA\_L

ClientSampleId :

IA-2DL

Tot Ion: 43 Resp: 180440

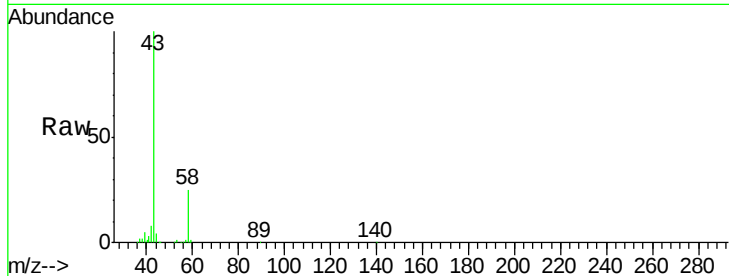
Ion Ratio Lower Upper

43 100

58 28.6 21.0 31.6

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.83

150000

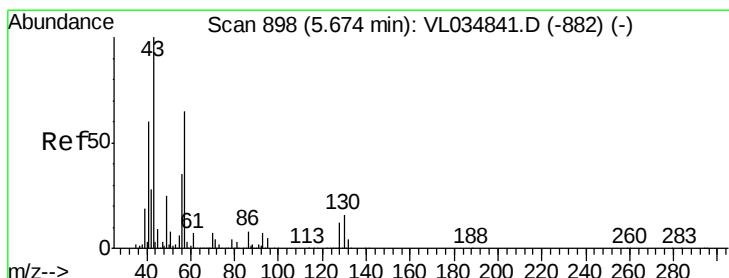
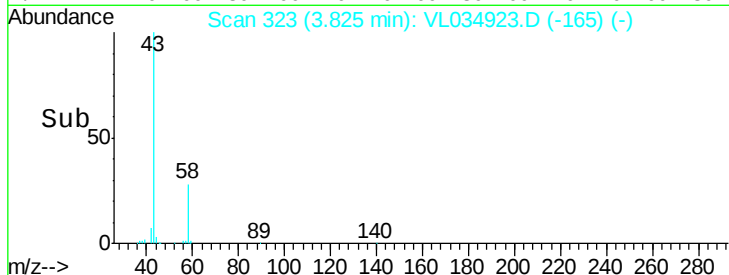
100000

50000

0

Time-->

3.80 3.85



#26

Hexane

Concen: 0.161 ppbv m

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL034923.D

Acq: 17 Mar 2020 20:03

Tgt Ion: 57 Resp: 17063

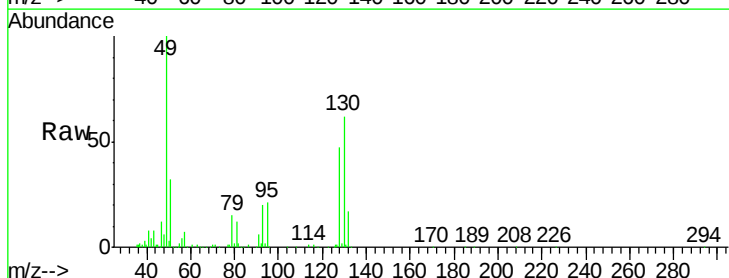
Ion Ratio Lower Upper

57 100

41 0.0 72.6 109.0#

43 0.0 183.8 275.6#

56 0.0 41.9 62.9#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0

20000

15000

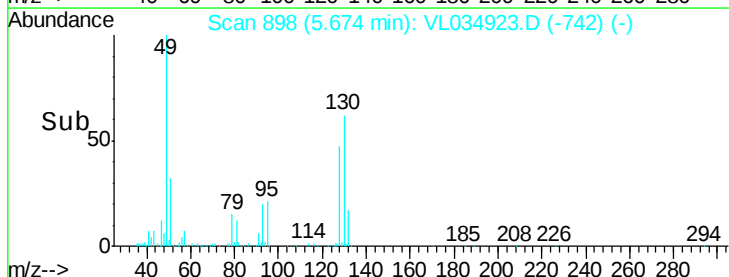
10000

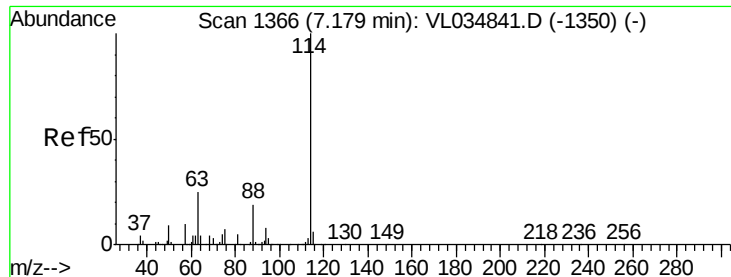
5000

0

Time-->

5.60 5.65 5.70





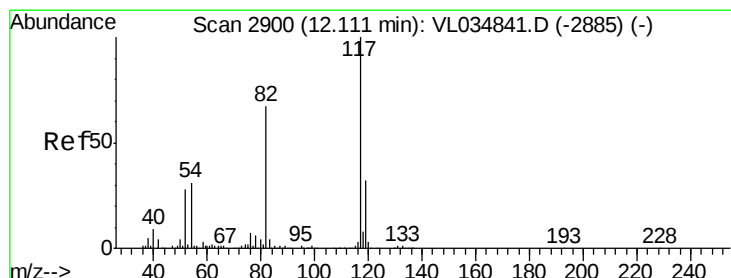
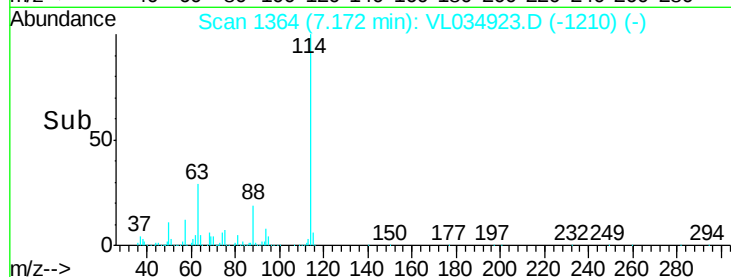
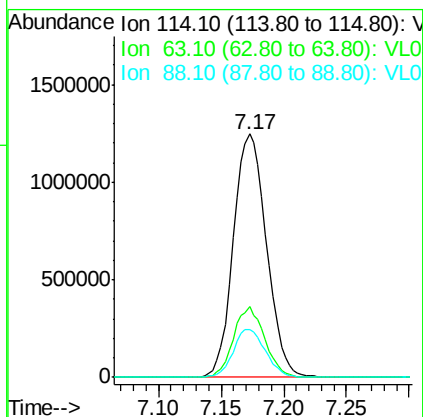
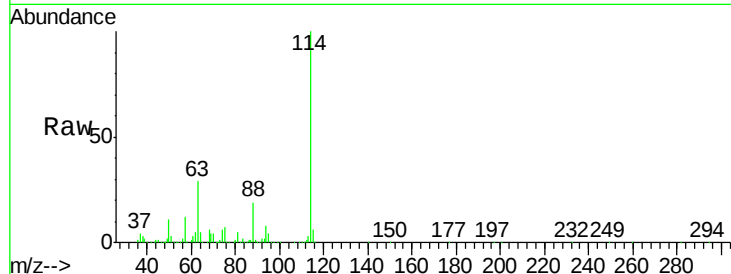
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.17 min Scan# 1364  
 Delta R.T. -0.01 min  
 Lab File: VL034923.D  
 Acq: 17 Mar 2020 20:03

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-2DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 27.5  | 20.6  | 31.0  |
| 88      | 19.2  | 15.0  | 22.6  |

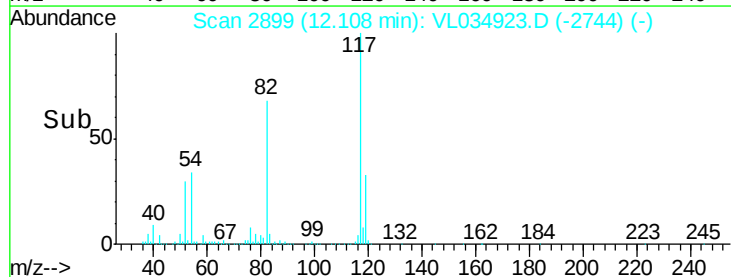
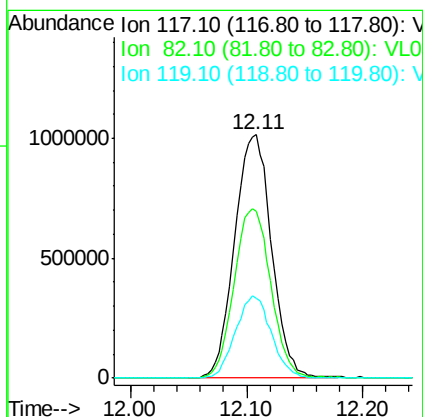
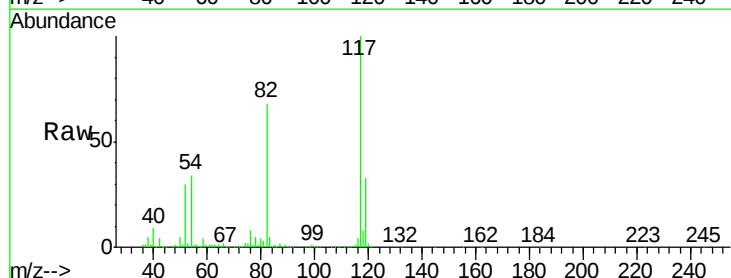
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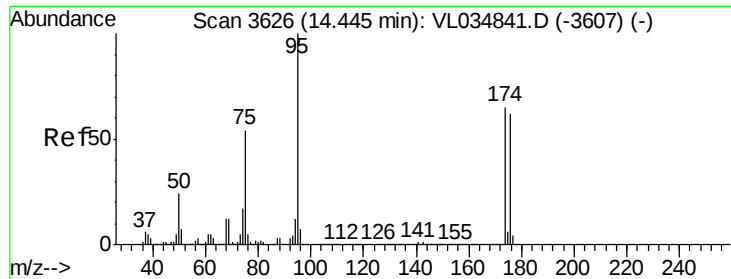
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#55  
 Chlorobenzene-d5  
 Concen: 10.000 ppbv  
 RT: 12.11 min Scan# 2899  
 Delta R.T. -0.00 min  
 Lab File: VL034923.D  
 Acq: 17 Mar 2020 20:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 69.8  | 51.1  | 76.7  |
| 119     | 32.9  | 27.3  | 40.9  |





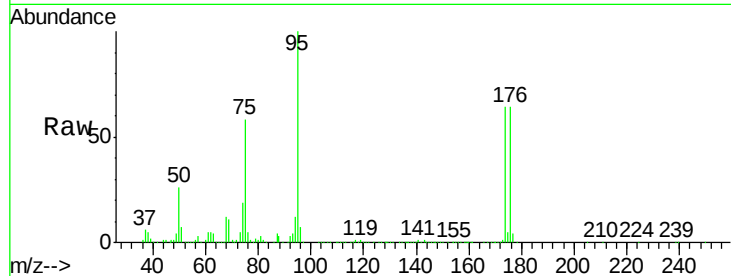
#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.674 ppbv  
 RT: 14.44 min Scan# 3625  
 Delta R.T. -0.00 min  
 Lab File: VL034923.D  
 Acq: 17 Mar 2020 20:03

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-2DL

Tot Ion: 95 Resp: 1869475  
 Ion Ratio Lower Upper  
 95 100  
 174 63.7 55.2 82.8  
 175 4.7 4.3 6.5

Manual Integrations  
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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

