

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020321\  
 Data File : VL036297.D  
 Acq On : 3 Feb 2021 17:19  
 Operator : SY/AP  
 Sample : M1295-01 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Feb 04 01:47:25 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Jan 14 16:13:38 2021  
 QLast Update : Thu Jan 14 16:13:38 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.69  | 49   | 1597046  | 10.00 | ppbv  | 0.03     |
| 33) 1,4-Difluorobenzene | 7.20  | 114  | 3448886  | 10.00 | ppbv  | 0.03     |
| 55) Chlorobenzene-d5    | 12.12 | 117  | 3164463  | 10.00 | ppbv  | 0.03     |

| System Monitoring Compounds |        | R.T.  | QIon     | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|-------|---------|----------|
| 68) 1-Bromo-4-Fluorobenzene |        | 14.45 | 95       | 2630817  | 10.04 | ppbv    | 0.04     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =     | 100.40% |          |

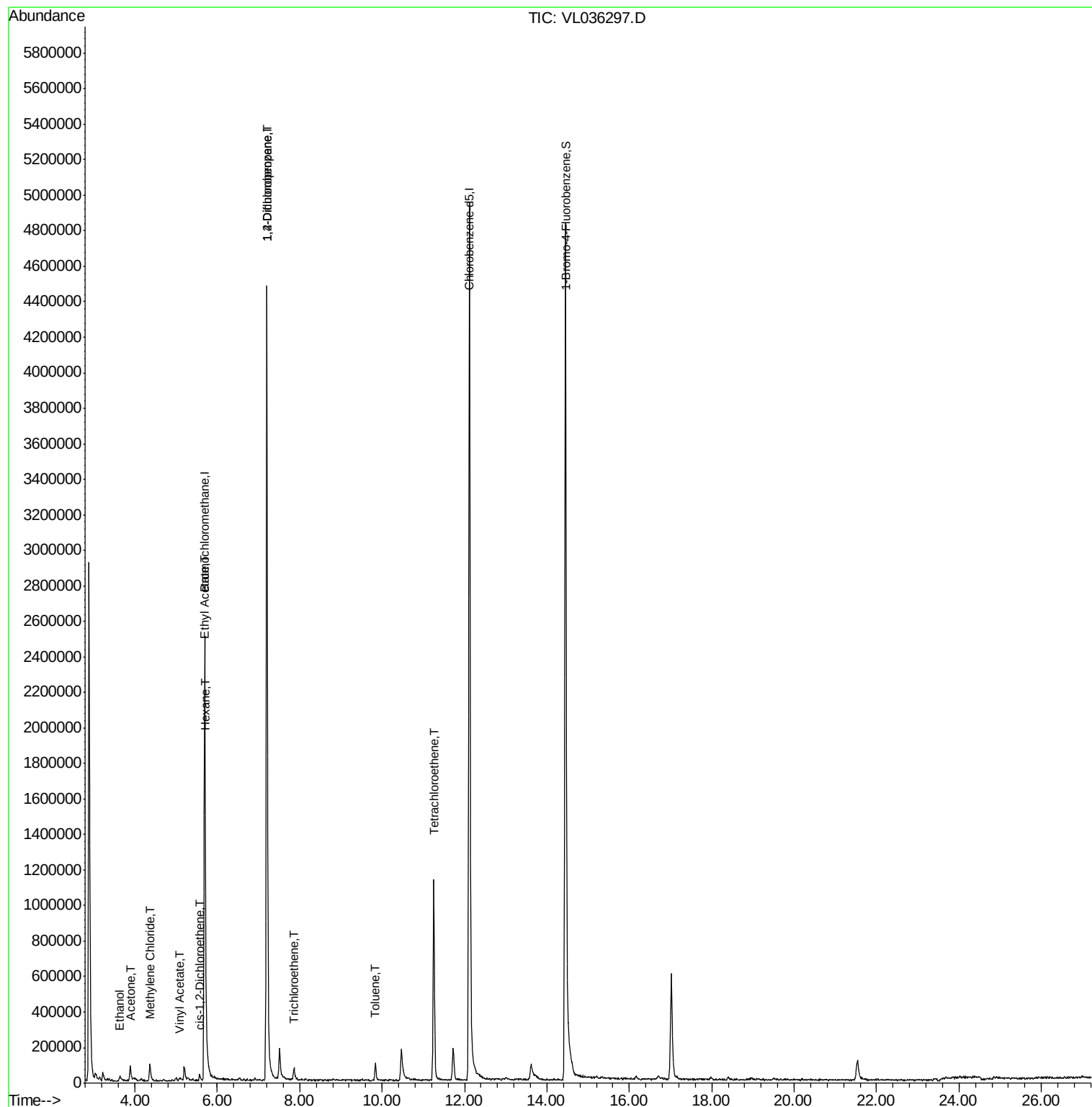
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 13) Ethanol                | 3.64  | 45   | 24713    | 1.685 | ppbv   | 84     |
| 15) Acetone                | 3.88  | 43   | 82245    | 0.420 | ppbv # | 54     |
| 20) Methylene Chloride     | 4.36  | 84   | 17820    | 0.285 | ppbv # | 90     |
| 23) Vinyl Acetate          | 5.09  | 43   | 9683     | 0.041 | ppbv # | 85     |
| 25) Ethyl Acetate          | 5.71  | 43   | 16134    | 0.041 | ppbv # | 89     |
| 26) Hexane                 | 5.71  | 57   | 10118    | 0.062 | ppbv # | 39     |
| 31) cis-1,2-Dichloroethene | 5.57  | 61   | 11999    | 0.077 | ppbv # | 93     |
| 38) Trichloroethene        | 7.86  | 130  | 10849    | 0.093 | ppbv # | 73     |
| 39) 1,2-Dichloropropane    | 7.20  | 63   | 1019974  | 7.949 | ppbv # | 22     |
| 52) Tetrachloroethene      | 11.26 | 164  | 257137   | 2.208 | ppbv   | 94     |
| 53) Toluene                | 9.83  | 91   | 74327    | 0.210 | ppbv   | 98     |

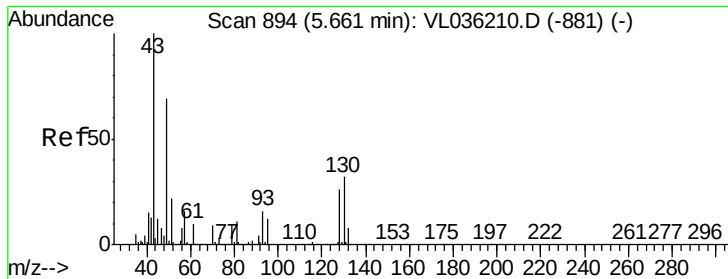
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL020321\  
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Sample : M1295-01 10X  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampled :

Quant Time: Feb 04 01:47:25 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Jan 14 16:13:38 2021  
QLast Update : Thu Jan 14 16:13:38 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.03 min

Lab File: VL036297.D

Acq: 3 Feb 2021 17:19

Instrument :  
MSVOA\_L  
ClientSampled :

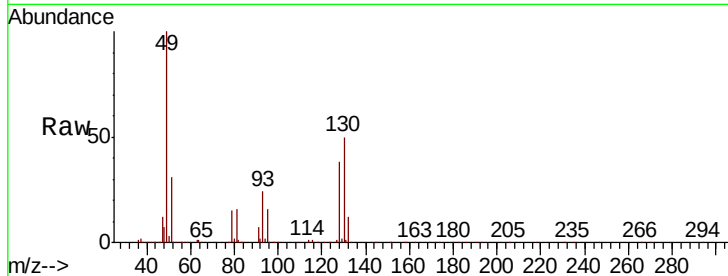
Tot Ion: 49 Resp: 1597046

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 128 | 41.2  | 20.1  | 60.2  |
| 130 | 52.6  | 25.3  | 75.9  |

49 100

128 41.2 20.1 60.2

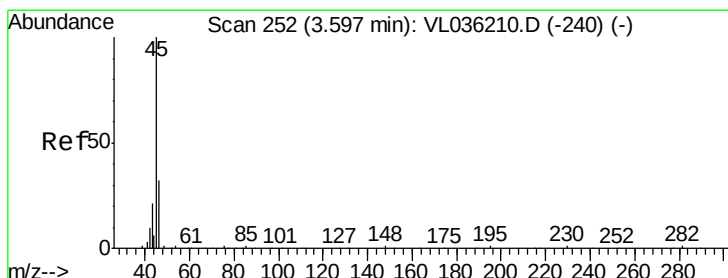
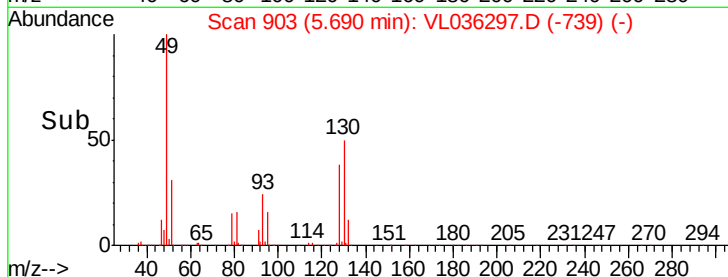
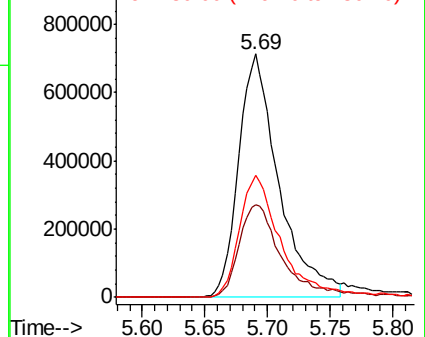
130 52.6 25.3 75.9



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: 1.685 ppbv

RT: 3.64 min Scan# 264

Delta R.T. 0.04 min

Lab File: VL036297.D

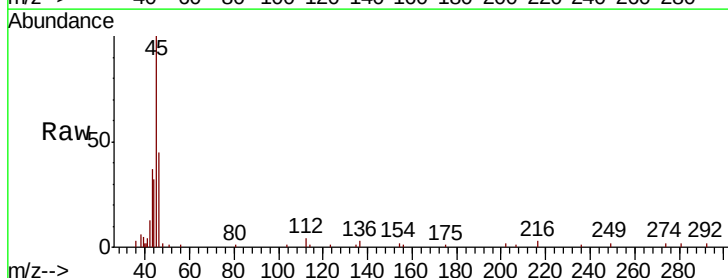
Acq: 3 Feb 2021 17:19

Tgt Ion: 45 Resp: 24713

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 45  | 100   |       |       |
| 46  | 59.2  | 19.2  | 77.0  |

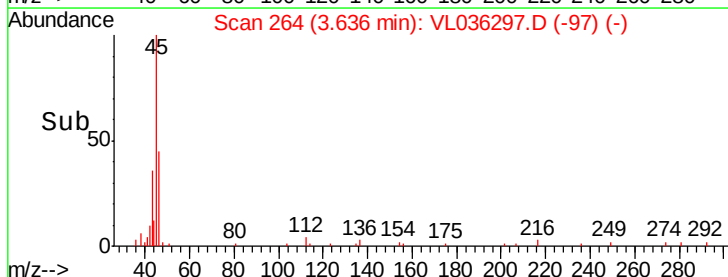
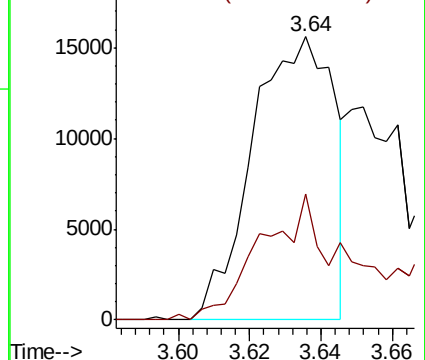
45 100

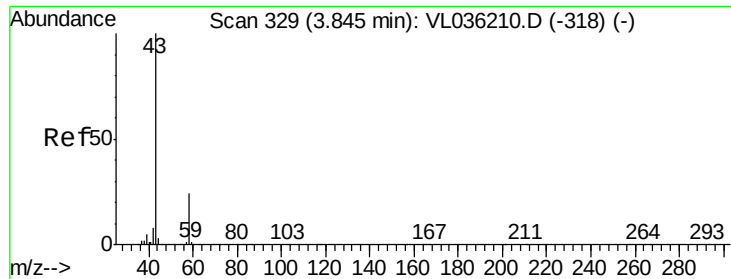
46 59.2 19.2 77.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

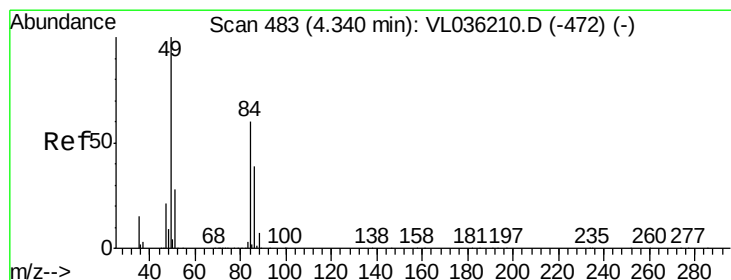
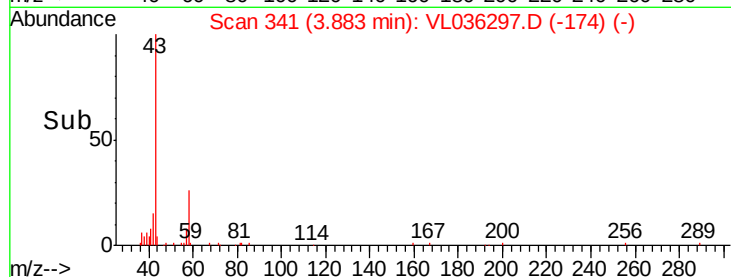
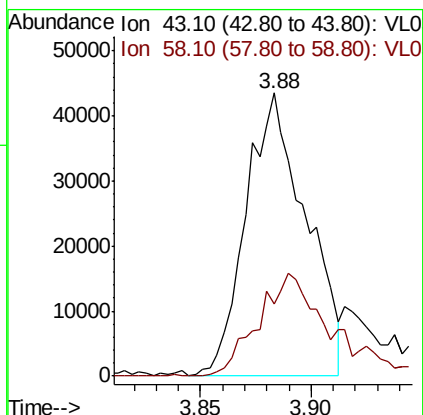
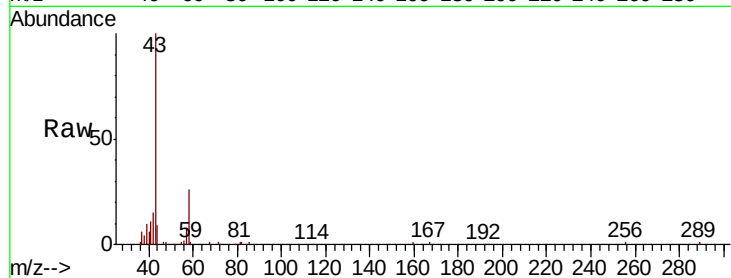




#15  
Acetone  
Concen: 0.420 ppbv  
RT: 3.88 min Scan# 341  
Delta R.T. 0.04 min  
Lab File: VL036297.D  
Acq: 3 Feb 2021 17:19

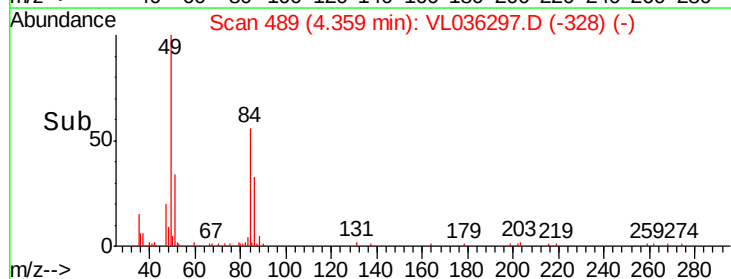
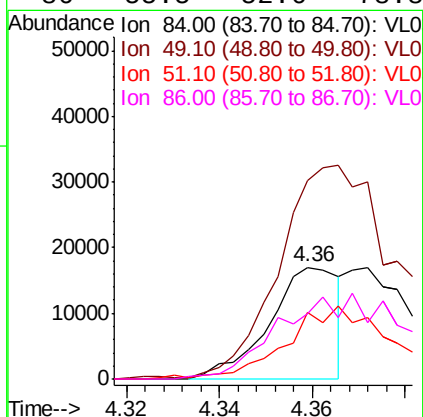
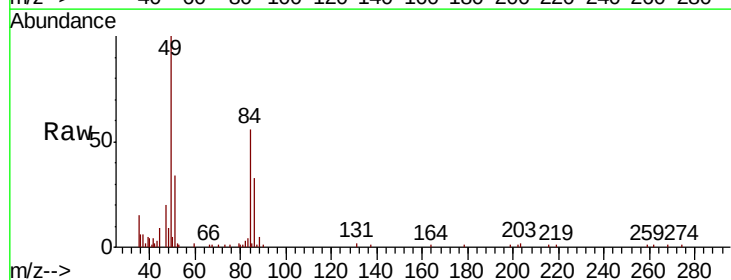
Instrument :  
MSVOA\_L  
ClientSampleId :

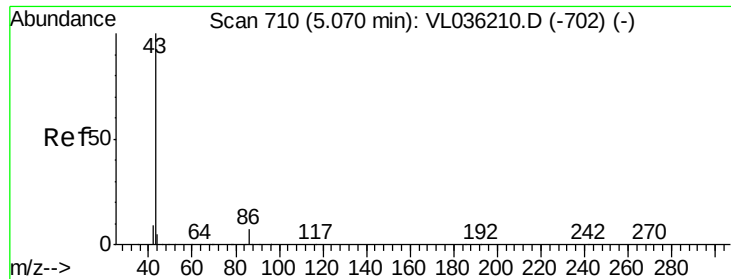
Tot Ion: 43 Resp: 82245  
Ion Ratio Lower Upper  
43 100  
58 49.5 20.9 31.3#



#20  
Methylene Chloride  
Concen: 0.285 ppbv  
RT: 4.36 min Scan# 489  
Delta R.T. 0.02 min  
Lab File: VL036297.D  
Acq: 3 Feb 2021 17:19

Tgt Ion: 84 Resp: 17820  
Ion Ratio Lower Upper  
84 100  
49 176.9 134.1 201.1  
51 58.5 37.4 56.0#  
86 55.5 52.6 78.8





#23

Vinyl Acetate

Concen: 0.041 ppbv

RT: 5.09 min Scan# 717

Delta R.T. 0.02 min

Lab File: VL036297.D

Acq: 3 Feb 2021 17:19

Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion: 43 Resp: 9683

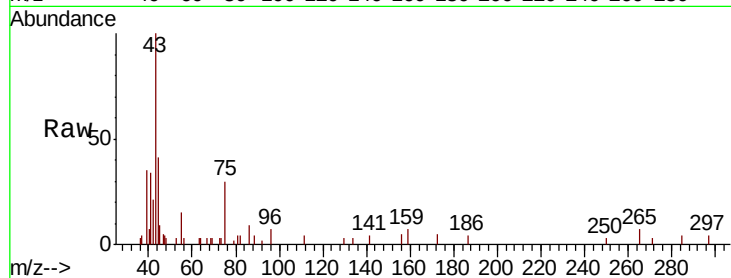
Ion Ratio Lower Upper

43 100

86 0.0 4.9 7.3#

42 3.1 7.8 11.6#

44 6.7 3.7 5.5#

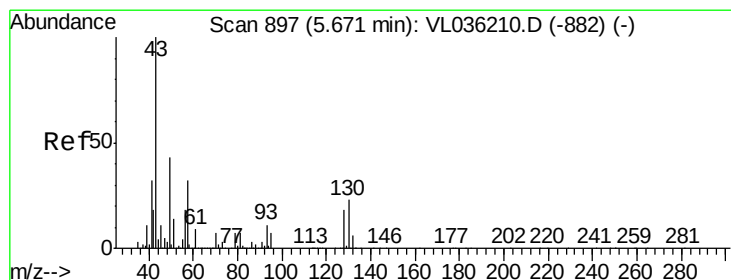
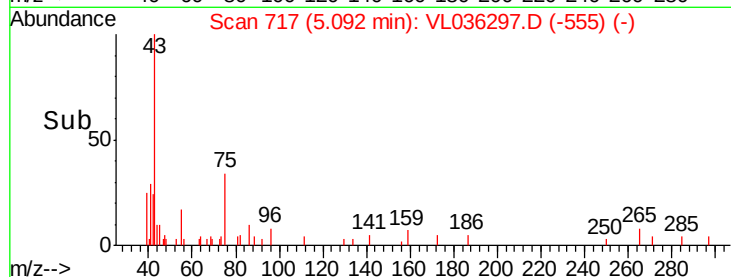
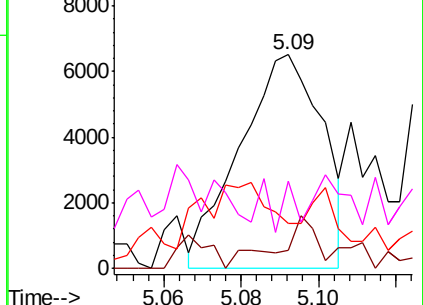


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.041 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.04 min

Lab File: VL036297.D

Acq: 3 Feb 2021 17:19

Tgt Ion: 43 Resp: 16134

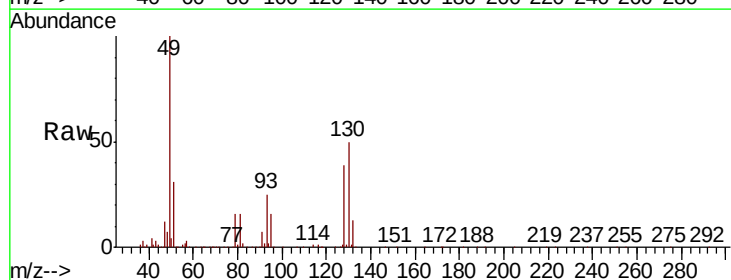
Ion Ratio Lower Upper

43 100

45 10.8 8.3 12.5

61 0.0 7.4 11.2#

70 5.0 5.5 8.3#

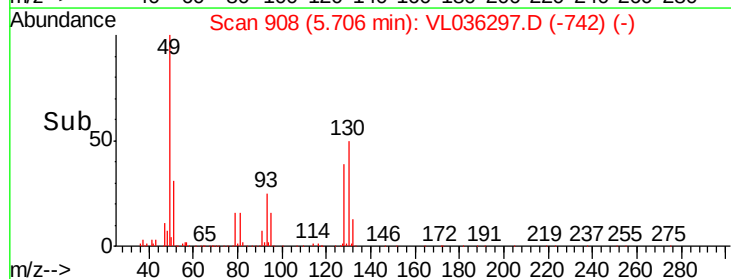
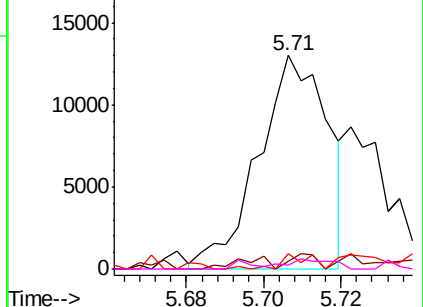


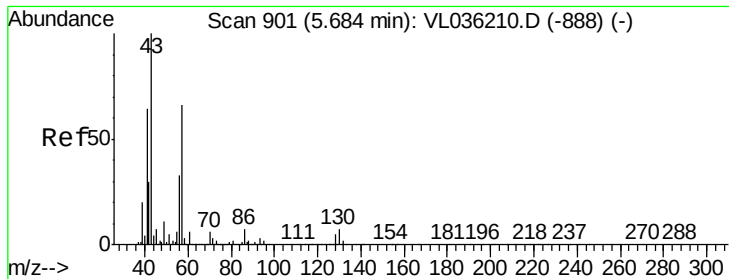
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0

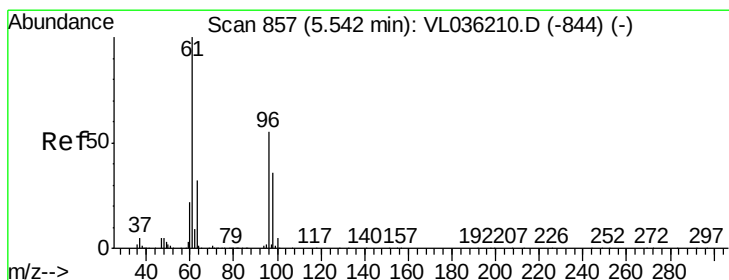
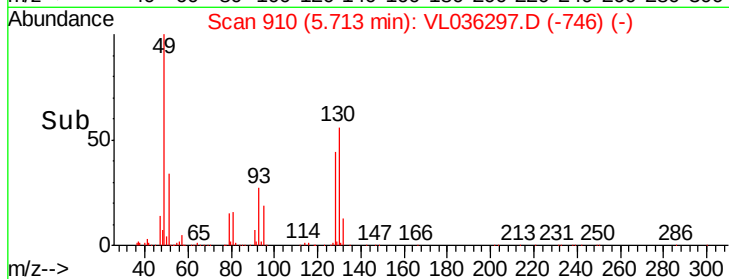
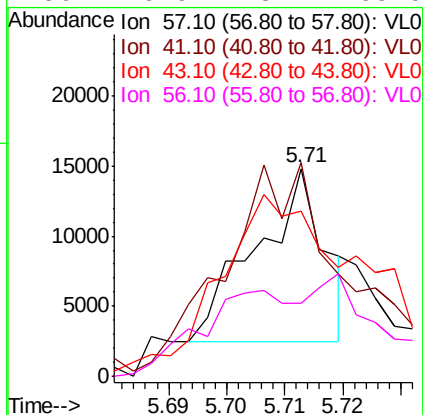
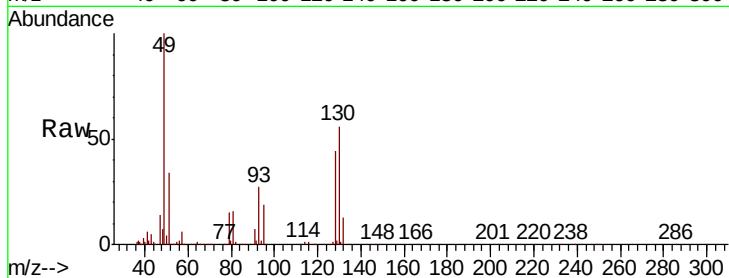




#26  
Hexane  
Concen: 0.062 ppbv  
RT: 5.71 min Scan# 910  
Delta R.T. 0.03 min  
Lab File: VL036297.D  
Acq: 3 Feb 2021 17:19

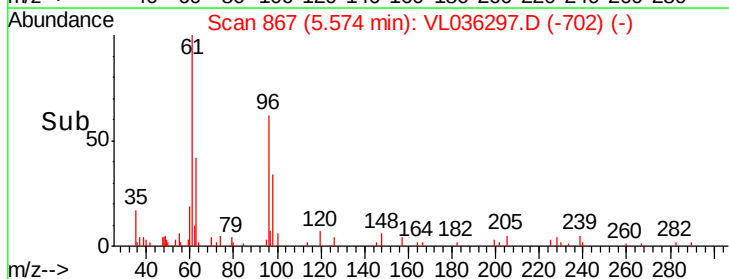
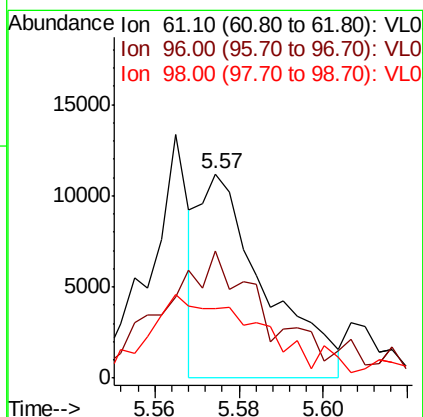
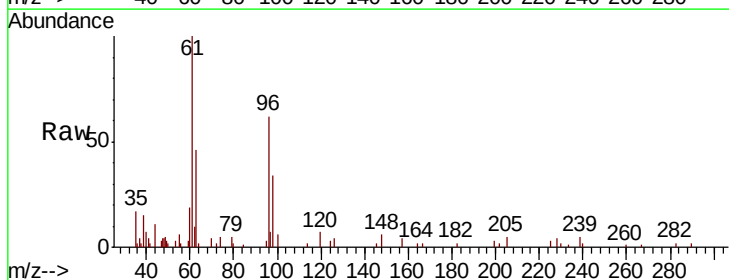
Instrument :  
MSVOA\_L  
ClientSampled :

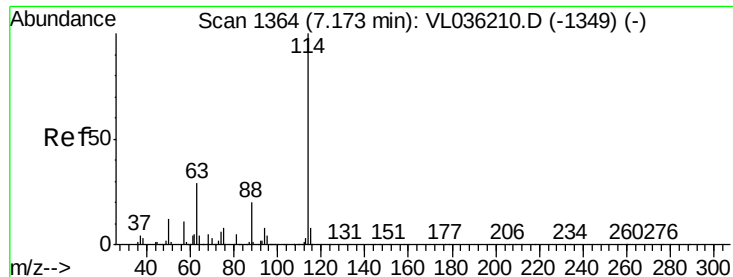
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 57    | Resp: | 10118  |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 280.1 | 83.0  | 124.6# |
| 43       | 257.4 | 202.4 | 303.6  |
| 56       | 140.9 | 43.4  | 65.0#  |



#31  
cis-1,2-Dichloroethene  
Concen: 0.077 ppbv  
RT: 5.57 min Scan# 867  
Delta R.T. 0.03 min  
Lab File: VL036297.D  
Acq: 3 Feb 2021 17:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 61    | Resp: | 11999 |
| Ion      | Ratio | Lower | Upper |
| 61       | 100   |       |       |
| 96       | 56.9  | 44.1  | 66.1  |
| 98       | 27.2  | 28.6  | 42.8# |

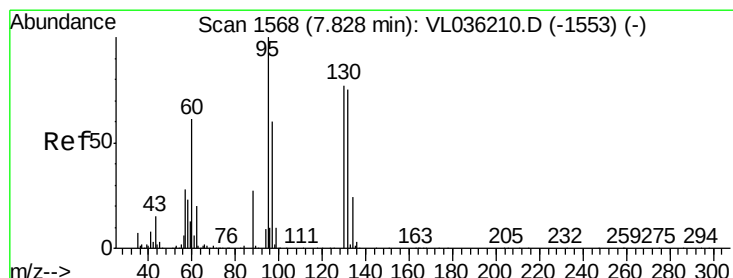
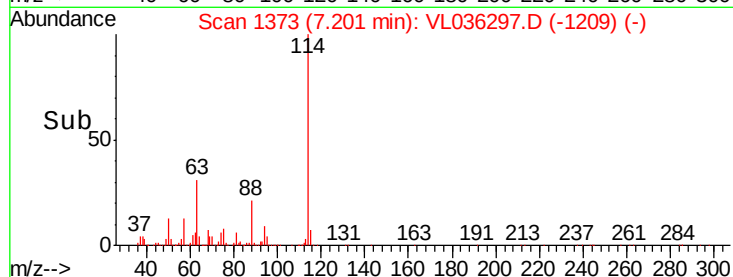
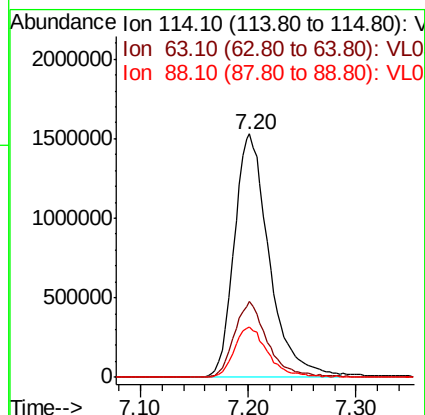
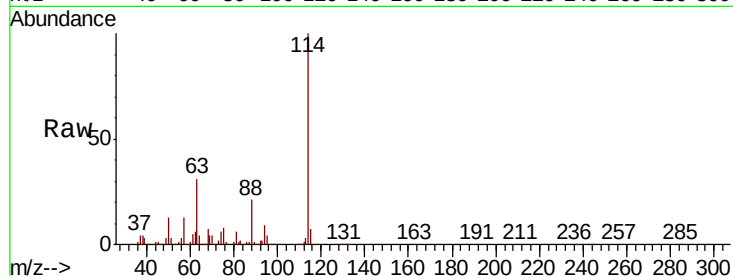




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.20 min Scan# 1373  
 Delta R.T. 0.03 min  
 Lab File: VL036297.D  
 Acq: 3 Feb 2021 17:19

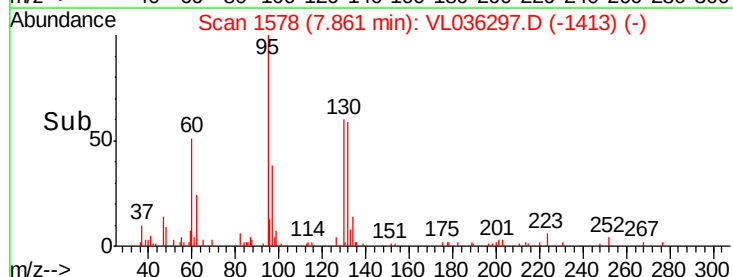
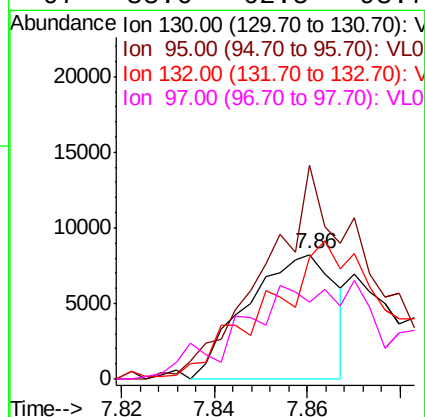
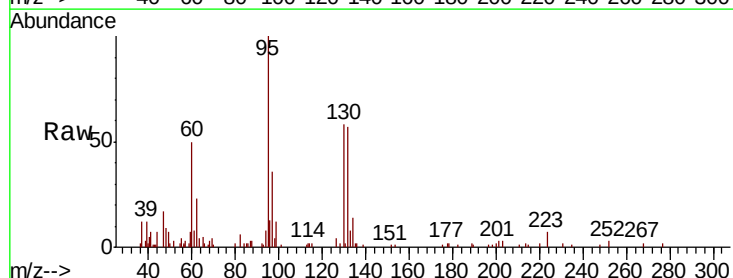
Instrument :  
 MSVOA\_L  
 ClientSampleId :

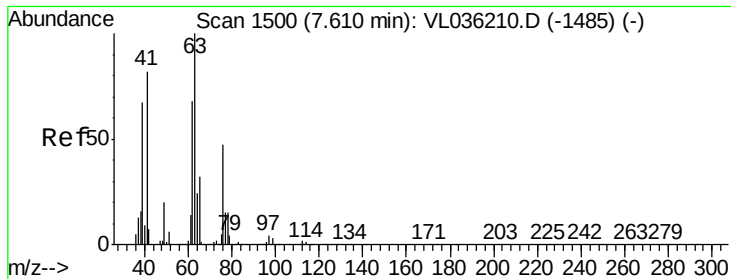
Tot Ion:114 Resp: 3448886  
 Ion Ratio Lower Upper  
 114 100  
 63 30.4 24.7 37.1  
 88 20.4 16.6 24.8



#38  
 Trichloroethene  
 Concen: 0.093 ppbv  
 RT: 7.86 min Scan# 1578  
 Delta R.T. 0.03 min  
 Lab File: VL036297.D  
 Acq: 3 Feb 2021 17:19

Tgt Ion:130 Resp: 10849  
 Ion Ratio Lower Upper  
 130 100  
 95 157.6 103.9 155.9#  
 132 85.7 77.4 116.2  
 97 33.6 62.5 93.7#

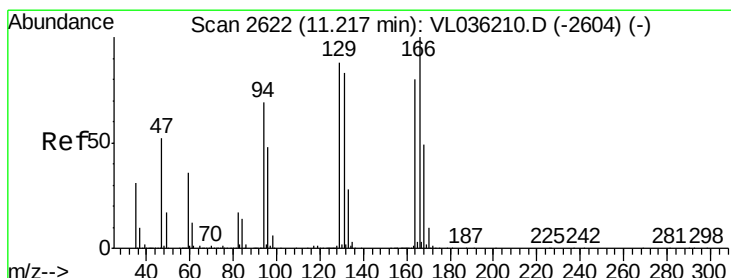
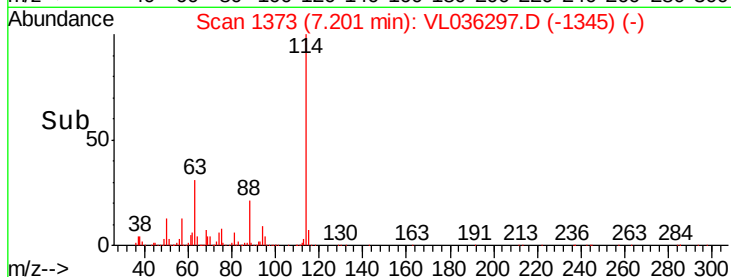
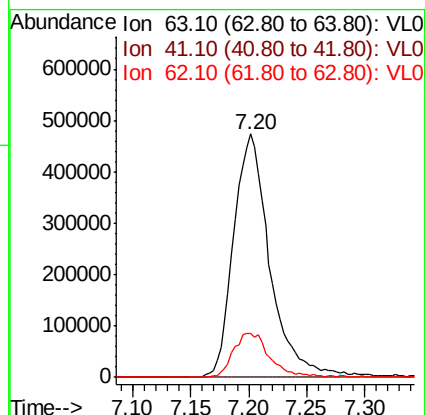
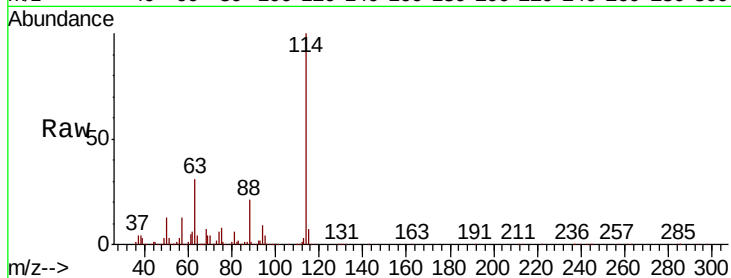




#39  
 1,2-Dichloropropane  
 Concen: 7.949 ppbv  
 RT: 7.20 min Scan# 1373  
 Delta R.T. -0.41 min  
 Lab File: VL036297.D  
 Acq: 3 Feb 2021 17:19

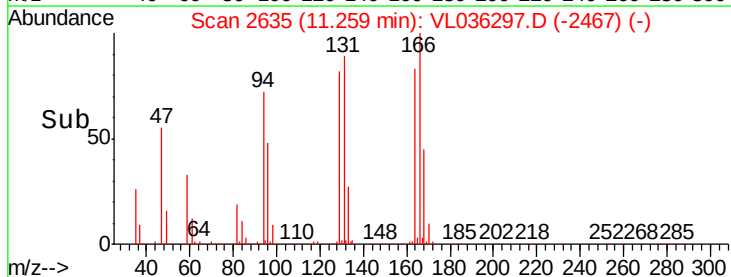
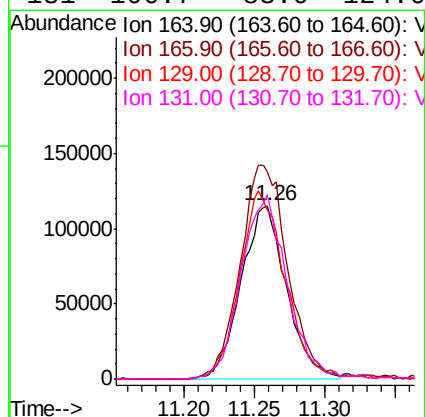
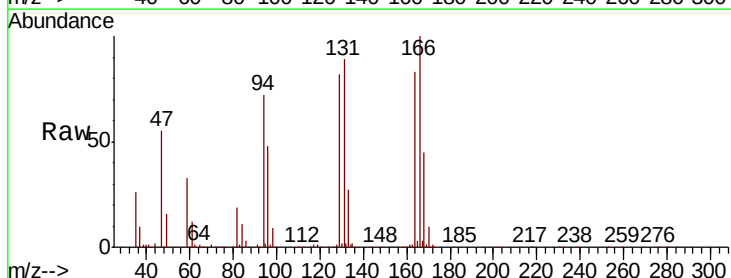
Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion: 63 Resp: 1019974  
 Ion Ratio Lower Upper  
 63 100  
 41 0.0 66.1 99.1#  
 62 18.1 54.8 82.2#

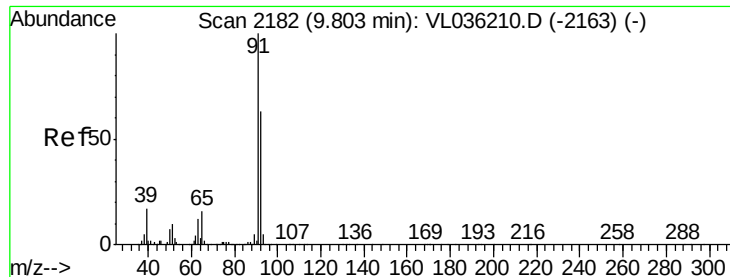


#52  
 Tetrachloroethene  
 Concen: 2.208 ppbv  
 RT: 11.26 min Scan# 2635  
 Delta R.T. 0.04 min  
 Lab File: VL036297.D  
 Acq: 3 Feb 2021 17:19

Tgt Ion:164 Resp: 257137  
 Ion Ratio Lower Upper  
 164 100  
 166 120.1 99.9 149.9  
 129 97.4 88.2 132.4  
 131 106.7 83.0 124.6







#53

Toluene

Concen: 0.210 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.03 min

Lab File: VL036297.D

Acq: 3 Feb 2021 17:19

Instrument :

MSVOA\_L

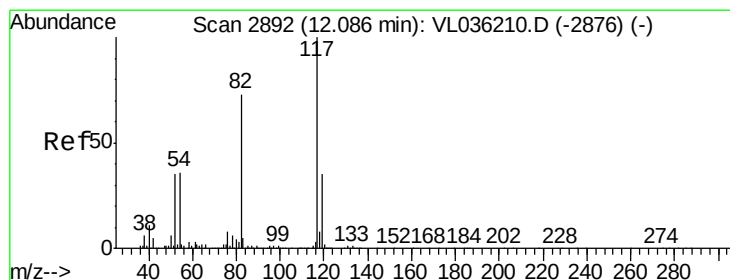
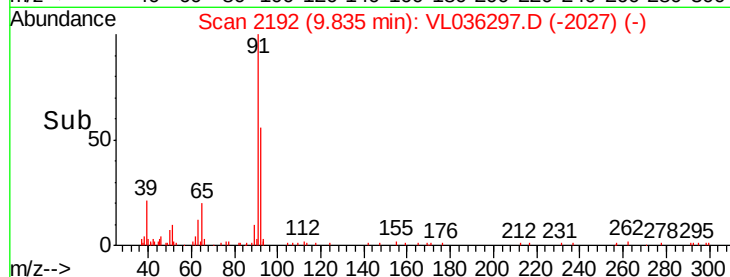
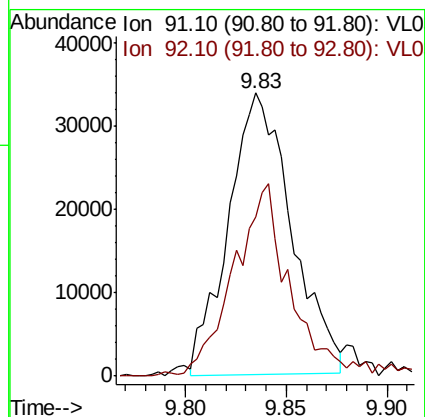
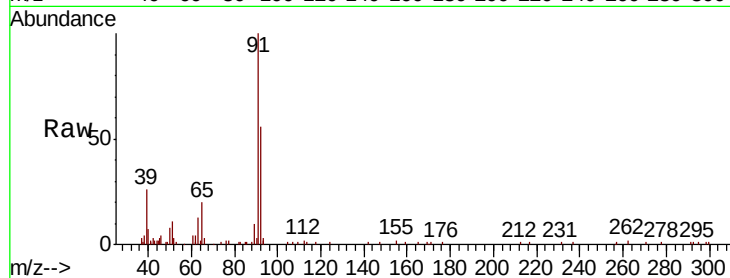
ClientSampleId :

Tot Ion: 91 Resp: 74327

Ion Ratio Lower Upper

91 100

92 62.0 48.5 72.7



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. 0.03 min

Lab File: VL036297.D

Acq: 3 Feb 2021 17:19

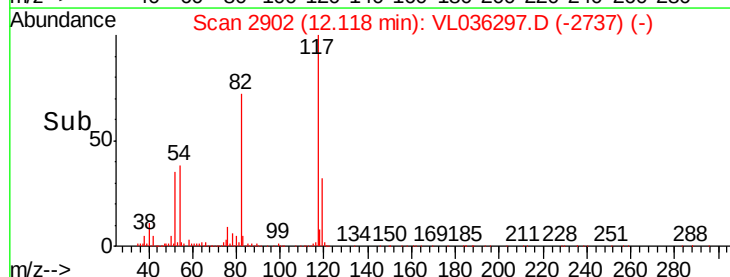
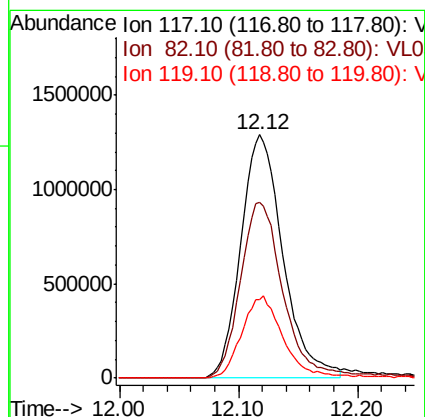
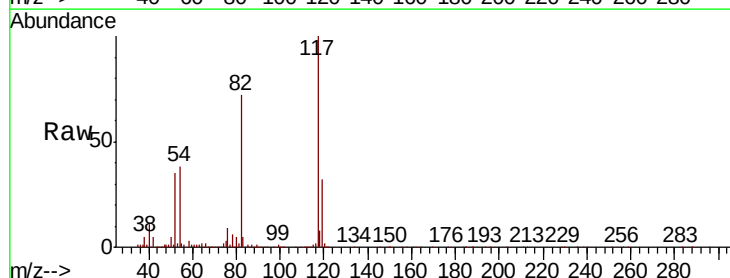
Tgt Ion: 117 Resp: 3164463

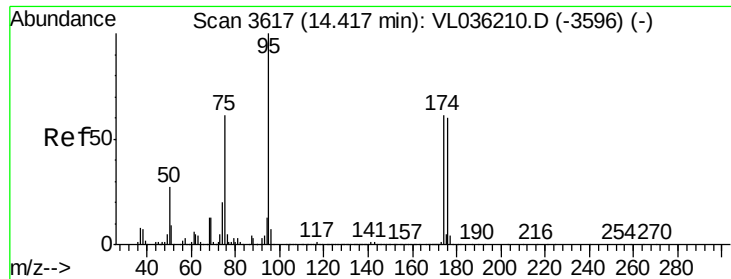
Ion Ratio Lower Upper

117 100

82 76.2 59.7 89.5

119 33.5 28.6 43.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.044 ppbv

RT: 14.45 min Scan# 3628

Delta R.T. 0.04 min

Lab File: VL036297.D

Acq: 3 Feb 2021 17:19

Instrument :

MSVOA\_L

ClientSampleId :

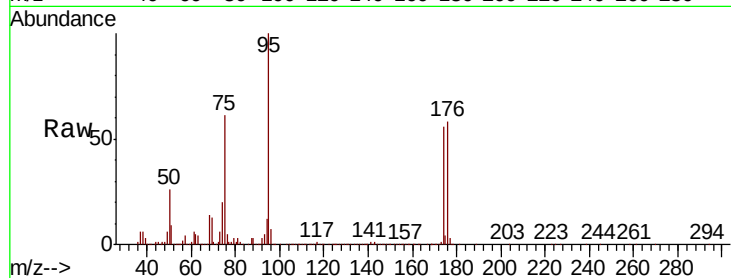
Tot Ion: 95 Resp: 2630817

Ion Ratio Lower Upper

95 100

174 63.4 49.4 74.0

175 4.5 3.8 5.8



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

