

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112420\  
 Data File : VL036013.D  
 Acq On : 25 Nov 2020 3:38  
 Operator : SY/AP  
 Sample : L4883-02DL 10X  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 OA1DL

Quant Time: Nov 25 07:34:51 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL110320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Wed Nov 04 02:40:06 2020  
 QLast Update : Wed Nov 04 02:40:06 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.64  | 49   | 1309630  | 10.00 | ppbv  | -0.03    |
| 33) 1,4-Difluorobenzene | 7.15  | 114  | 4449312  | 10.00 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 12.06 | 117  | 4120311  | 10.00 | ppbv  | -0.04    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.39  | 95    | 3082656  | 10.53    | ppbv | -0.04   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 105.30% |

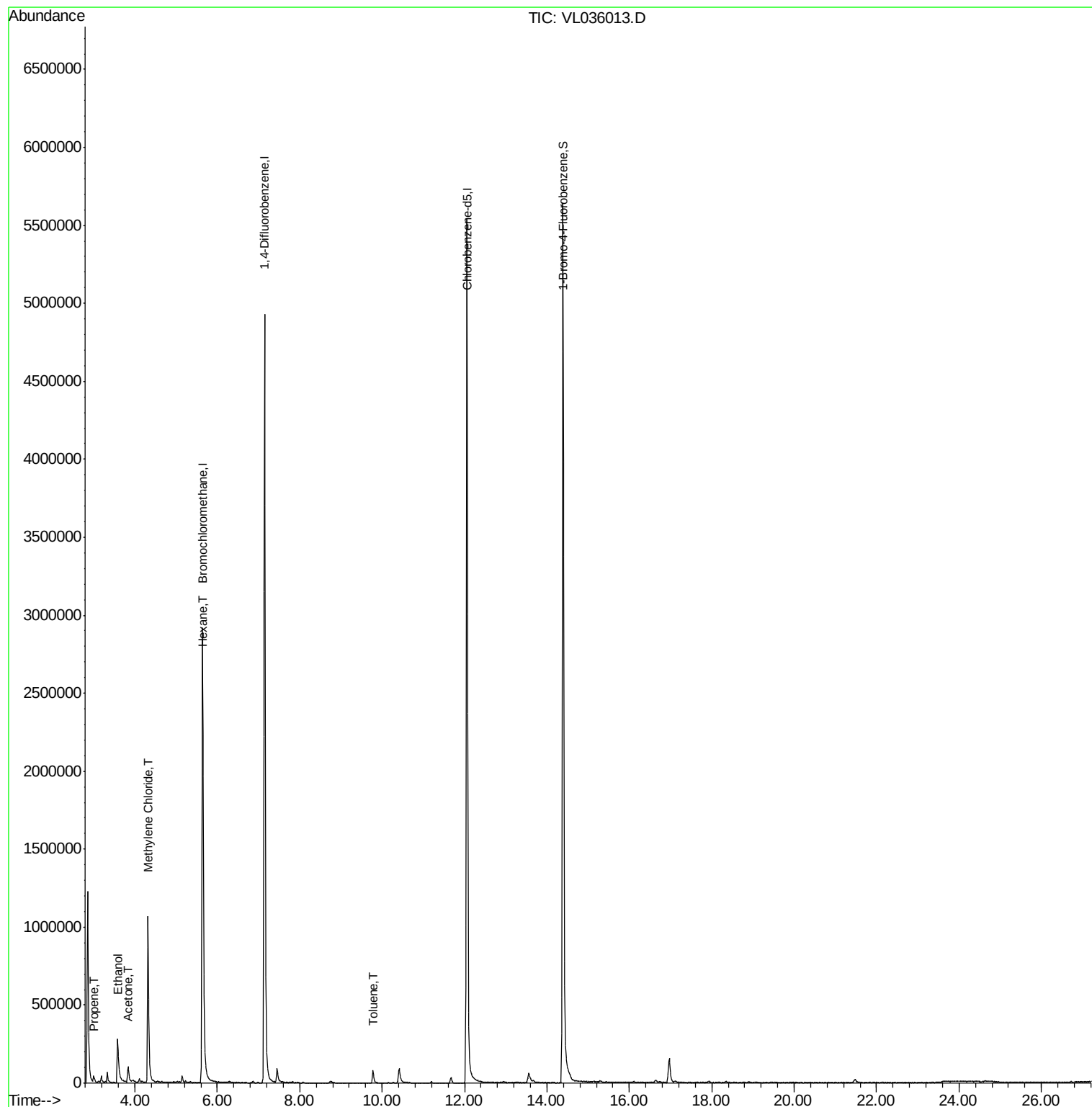
| Target Compounds       | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|------------------------|------|------|----------|--------|--------|--------|
| 9) Propene             | 2.99 | 41   | 13220    | 0.230  | ppbv   | 90     |
| 13) Ethanol            | 3.58 | 45   | 408250   | 32.783 | ppbv   | 96     |
| 15) Acetone            | 3.83 | 43   | 123652   | 0.883  | ppbv # | 86     |
| 20) Methylene Chloride | 4.32 | 84   | 585335   | 5.939  | ppbv   | 98     |
| 26) Hexane             | 5.66 | 57   | 199243   | 1.310  | ppbv # | 45     |
| 53) Toluene            | 9.78 | 91   | 73878    | 0.185  | ppbv   | 98     |

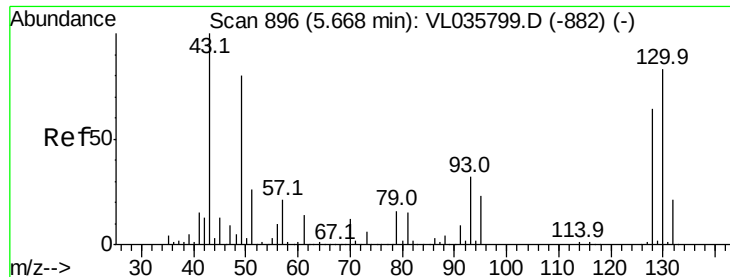
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 04 02:40:06 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 887

Delta R.T. -0.03 min

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MSVOA\_L

ClientSampleId :

QA1DL

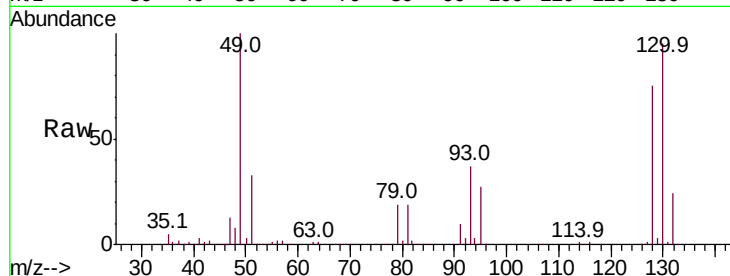
Tot Ion: 49 Resp: 1309630

Ion Ratio Lower Upper

49 100

128 75.4 41.5 124.6

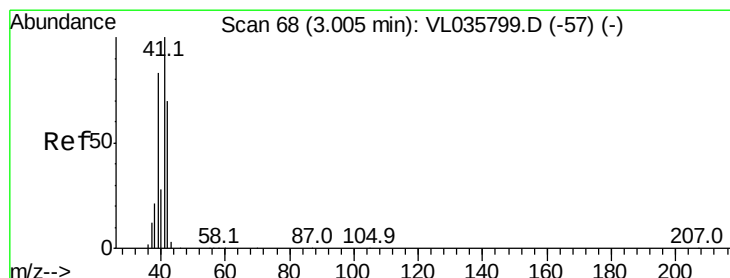
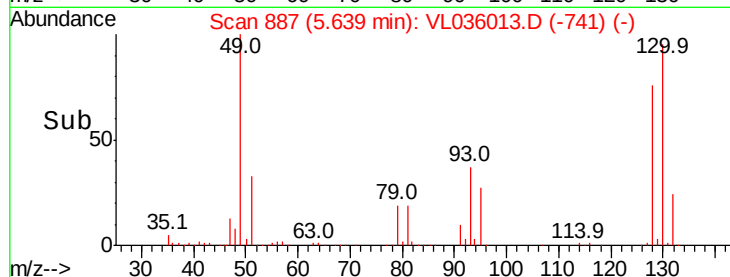
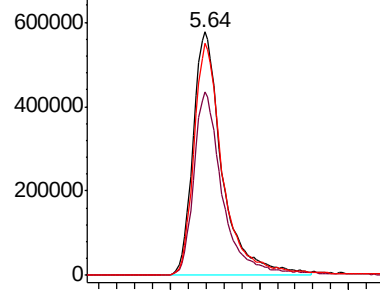
130 96.2 53.7 161.1



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



#9

Propene

Concen: 0.230 ppbv

RT: 2.99 min Scan# 64

Delta R.T. -0.01 min

Lab File: VL036013.D

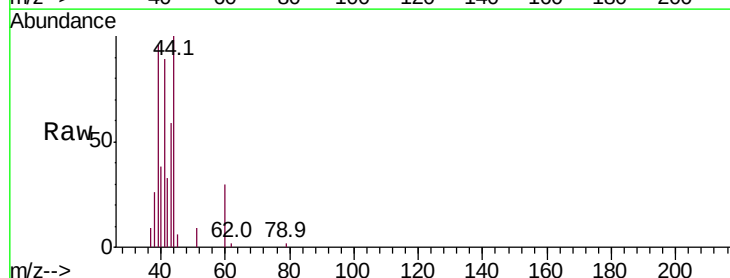
Acq: 25 Nov 2020 3:38

Tgt Ion: 41 Resp: 13220

Ion Ratio Lower Upper

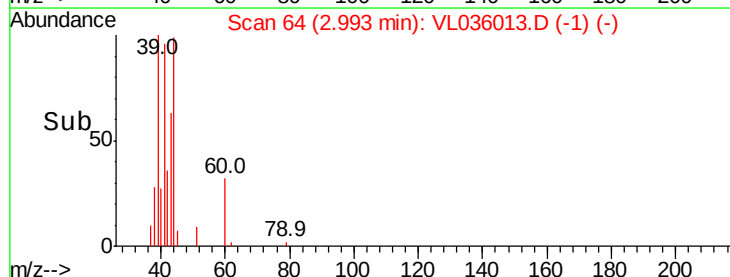
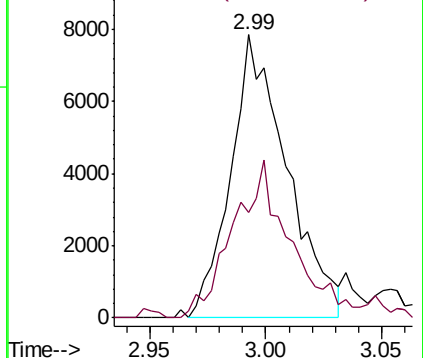
41 100

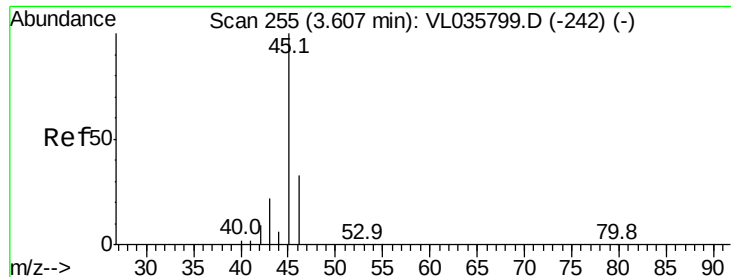
42 61.8 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 32.783 ppbv

RT: 3.58 min Scan# 247

Delta R.T. -0.03 min

Lab File: VL036013.D

Acq: 25 Nov 2020 3:38

Instrument :

MSVOA\_L

ClientSampleId :

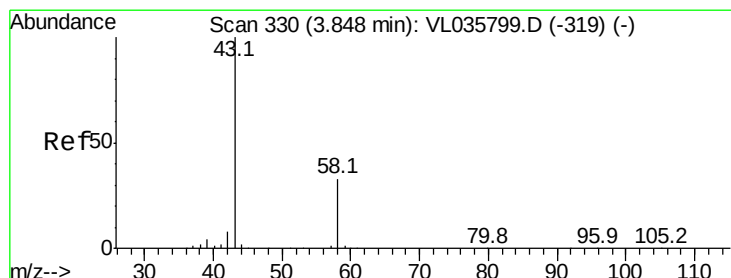
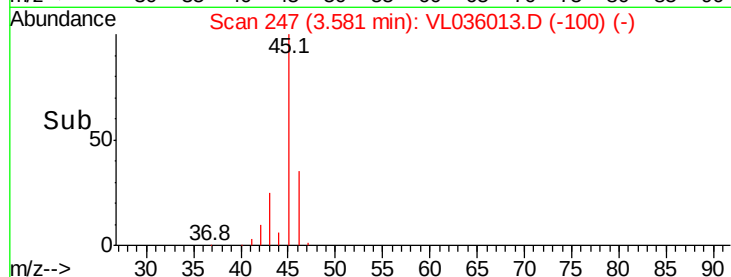
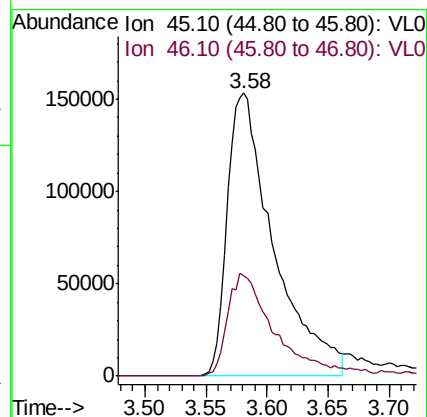
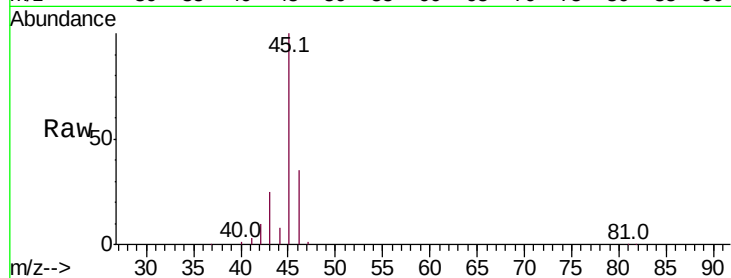
QA1DL

Tot Ion: 45 Resp: 408250

Ion Ratio Lower Upper

45 100

46 38.0 16.1 64.5



#15

Acetone

Concen: 0.883 ppbv

RT: 3.83 min Scan# 324

Delta R.T. -0.02 min

Lab File: VL036013.D

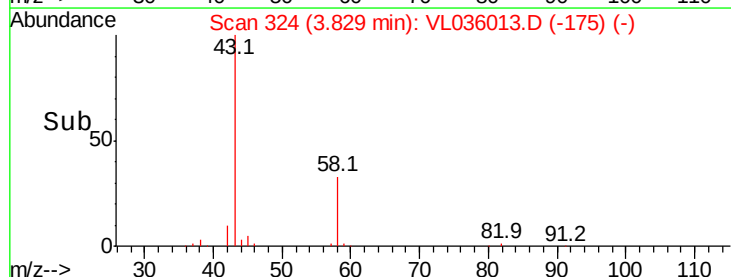
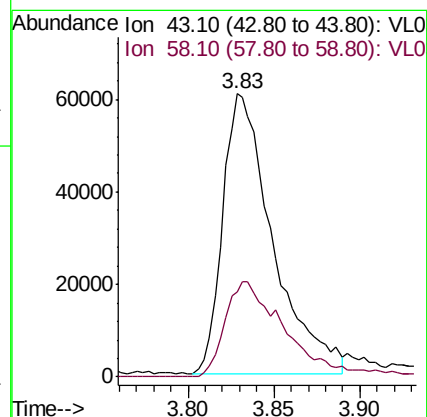
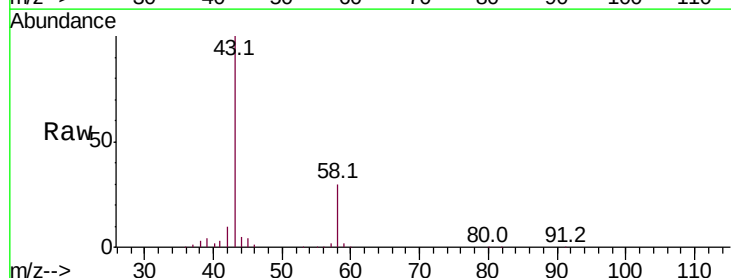
Acq: 25 Nov 2020 3:38

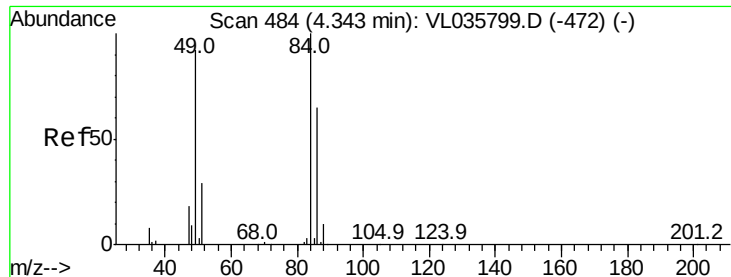
Tgt Ion: 43 Resp: 123652

Ion Ratio Lower Upper

43 100

58 42.7 27.5 41.3#

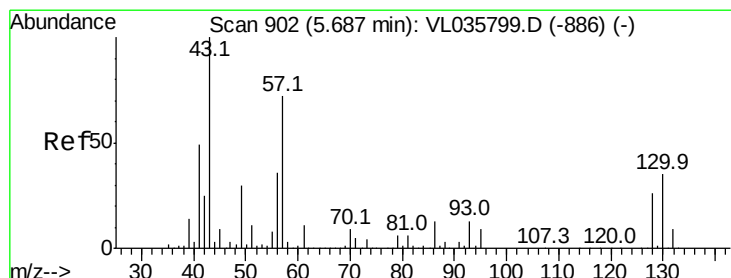
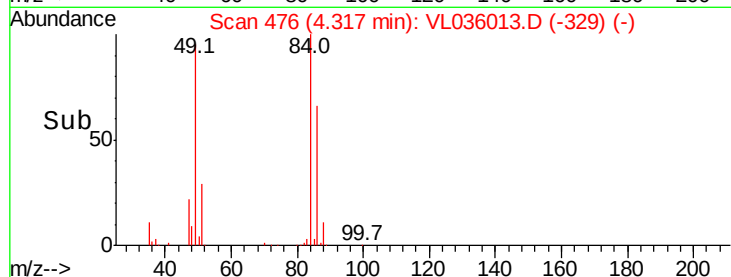
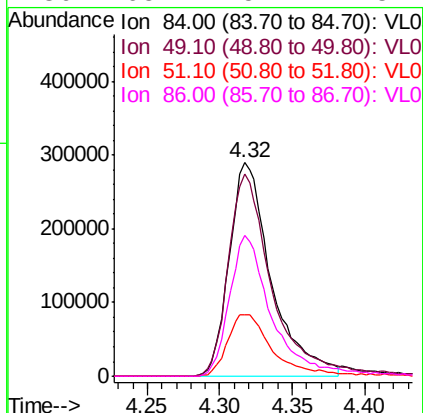
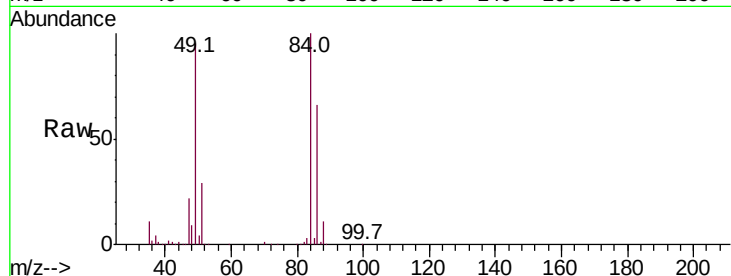




#20  
Methylene Chloride  
Concen: 5.939 ppbv  
RT: 4.32 min Scan# 476  
Delta R.T. -0.03 min  
Lab File: VL036013.D  
Acq: 25 Nov 2020 3:38

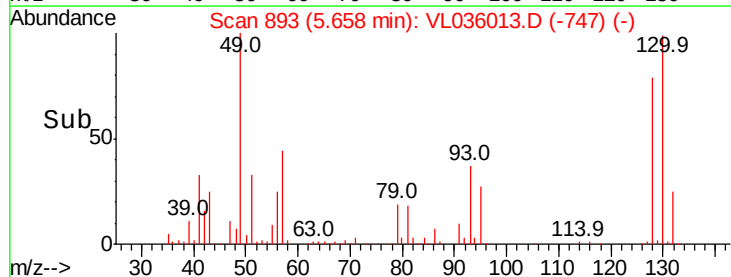
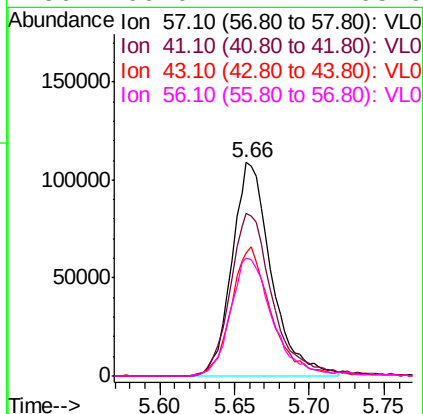
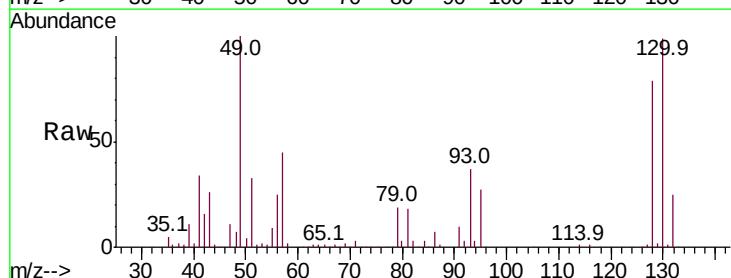
Instrument :  
MSVOA\_L  
ClientSampleId :  
QA1DL

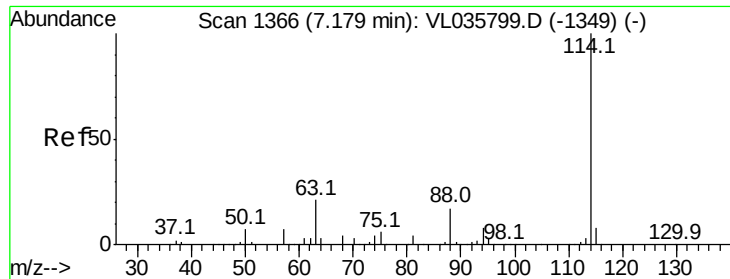
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 84    | Resp: | 585335 |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 94.9  | 73.8  | 110.8  |
| 51       | 29.0  | 23.0  | 34.4   |
| 86       | 65.7  | 52.1  | 78.1   |



#26  
Hexane  
Concen: 1.310 ppbv  
RT: 5.66 min Scan# 893  
Delta R.T. -0.03 min  
Lab File: VL036013.D  
Acq: 25 Nov 2020 3:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 199243 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 82.6  | 58.9  | 88.3   |
| 43       | 62.8  | 150.2 | 225.2# |
| 56       | 60.0  | 42.4  | 63.6   |

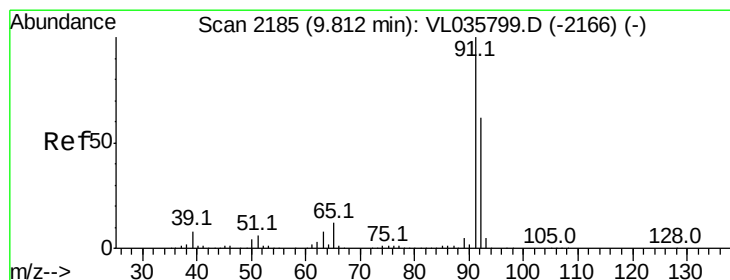
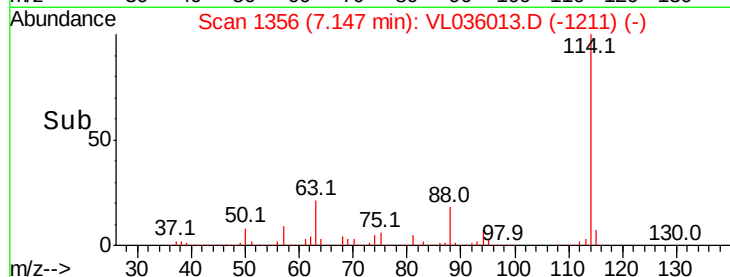
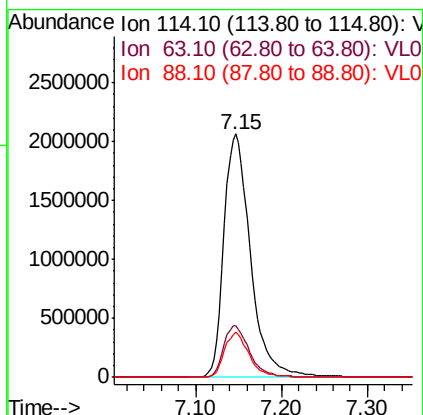
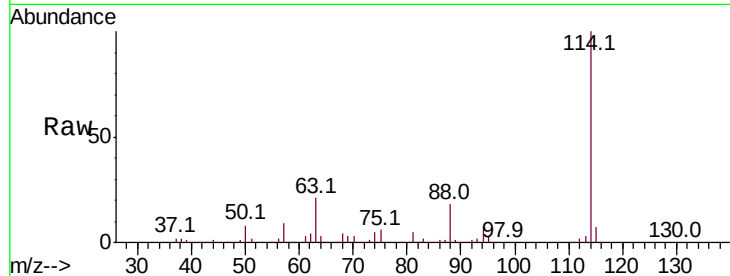




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.15 min Scan# 1356  
 Delta R.T. -0.03 min  
 Lab File: VL036013.D  
 Acq: 25 Nov 2020 3:38

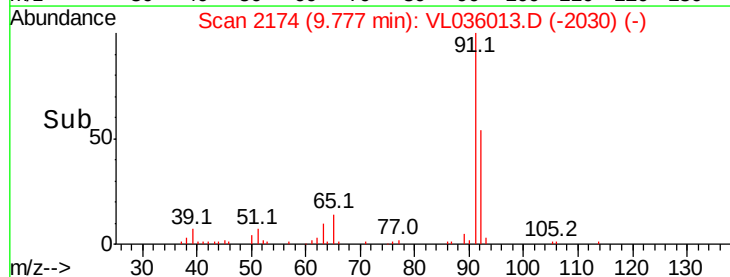
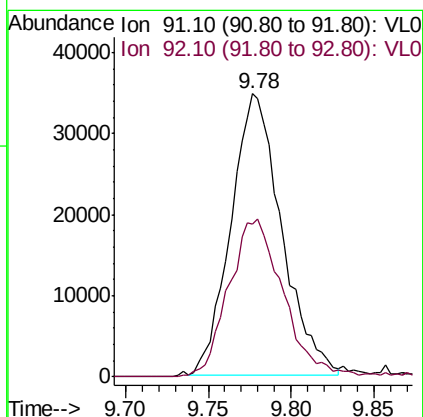
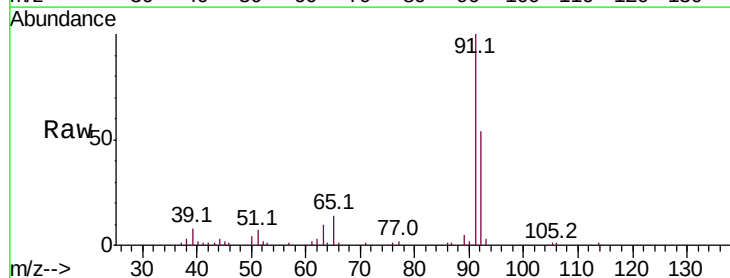
Instrument :  
 MSVOA\_L  
 ClientSampleID :  
 OA1DL

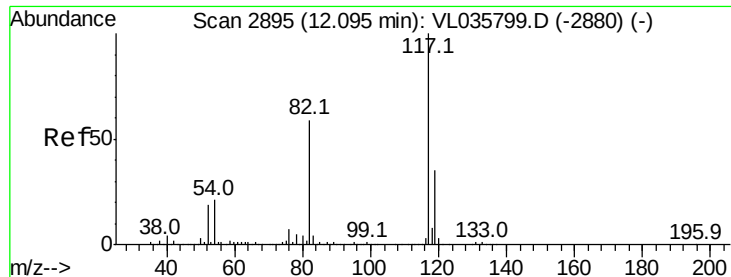
Tot Ion:114 Resp: 4449312  
 Ion Ratio Lower Upper  
 114 100  
 63 20.9 16.1 24.1  
 88 17.5 13.7 20.5



#53  
 Toluene  
 Concen: 0.185 ppbv  
 RT: 9.78 min Scan# 2174  
 Delta R.T. -0.04 min  
 Lab File: VL036013.D  
 Acq: 25 Nov 2020 3:38

Tgt Ion: 91 Resp: 73878  
 Ion Ratio Lower Upper  
 91 100  
 92 60.8 49.8 74.6

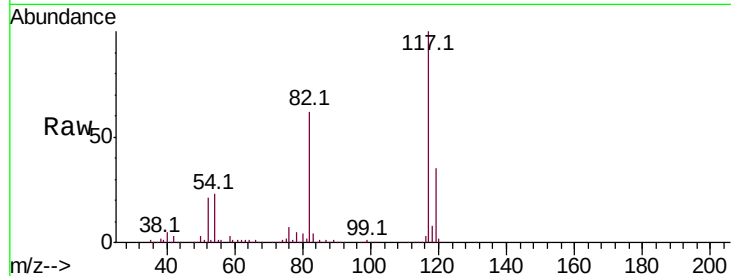




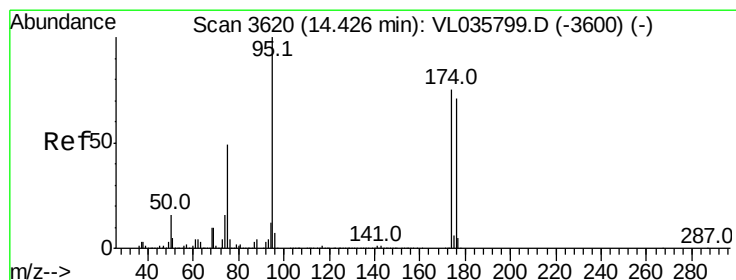
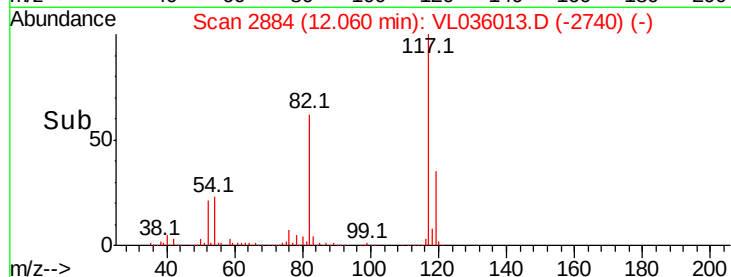
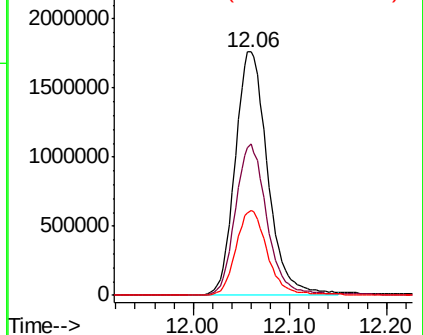
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 12.06 min Scan# 2884  
Delta R.T. -0.04 min  
Lab File: VL036013.D  
Acq: 25 Nov 2020 3:38

Instrument :  
MSVOA\_L  
ClientSampleId :  
QA1DL

Tot Ion:117 Resp: 4120311  
Ion Ratio Lower Upper  
117 100  
82 61.7 50.6 76.0  
119 34.4 52.6 78.8#

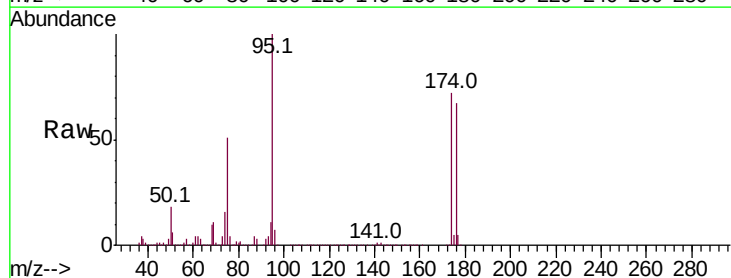


Abundance Ion 117.10 (116.80 to 117.80): V  
Ion 82.10 (81.80 to 82.80): VL0  
Ion 119.10 (118.80 to 119.80): V



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.530 ppbv  
RT: 14.39 min Scan# 3609  
Delta R.T. -0.04 min  
Lab File: VL036013.D  
Acq: 25 Nov 2020 3:38

Tgt Ion: 95 Resp: 3082656  
Ion Ratio Lower Upper  
95 100  
174 71.6 59.8 89.6  
175 5.0 4.3 6.5



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

