

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW040619\  
 Data File : VW009760.D  
 Acq On : 06 Apr 2019 06:36  
 Operator : SY/VA  
 Sample : K2188-10  
 Misc : 5.00G/10ML/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 BF654

Manual Integrations  
 APPROVED

MMDadoda  
 4/11/2019 11:42:56 AM

Quant Time: Apr 07 03:50:34 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM040319S.M

Quant Title : VOC Analysis

QLast Update : Sun Apr 07 03:43:12 2019

Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.84  | 114  | 373388   | 25.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.63 | 117  | 226837   | 25.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 52936    | 25.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |          |
|--------------------------------|--------|-------|----------|----------|------|----------|
| 4) Vinyl Chloride-d3           | 2.35   | 65    | 125774   | 25.74    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 102.96%  |
| 7) Chloroethane-d5             | 2.89   | 69    | 116540   | 26.03    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 150 | Recovery | =    | 104.12%  |
| 10) 1,1-Dichloroethene-d2      | 4.01   | 63    | 185318   | 17.64    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 110 | Recovery | =    | 70.56%   |
| 20) 2-Butanone-d5              | 7.08   | 46    | 72924    | 45.97    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 91.94%   |
| 24) Chloroform-d               | 7.64   | 84    | 242035   | 23.76    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 40 - 150 | Recovery | =    | 95.04%   |
| 26) 1,2-Dichloroethane-d4      | 8.30   | 65    | 155325m  | 24.83    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 130 | Recovery | =    | 99.32%   |
| 29) Benzene-d6                 | 8.27   | 84    | 446653   | 37.51    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 20 - 135 | Recovery | =    | 150.04%# |
| 33) 1,2-Dichloropropane-d6     | 9.27   | 67    | 136829   | 37.20    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 70 - 120 | Recovery | =    | 148.80%# |
| 37) Toluene-d8                 | 10.32  | 98    | 308253   | 28.00    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 130 | Recovery | =    | 112.00%  |
| 38) trans-1,3-Dichloropropene- | 10.58  | 79    | 47472    | 27.06    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 30 - 135 | Recovery | =    | 108.24%  |
| 39) 2-Hexanone-d5              | 10.93  | 63    | 48384    | 69.79    | ug/L | 0.00     |
| Spiked Amount                  | 50.000 | Range | 20 - 135 | Recovery | =    | 139.58%# |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69  | 84    | 68273    | 19.97    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 45 - 120 | Recovery | =    | 79.88%   |
| 61) 1,2-Dichlorobenzene-d4     | 13.85  | 152   | 40499    | 21.80    | ug/L | 0.00     |
| Spiked Amount                  | 25.000 | Range | 75 - 120 | Recovery | =    | 87.20%   |

#### Target Compounds

|                        |       |     |        |        | Qvalue   |
|------------------------|-------|-----|--------|--------|----------|
| 13) Acetone            | 4.12  | 43  | 27171  | 15.985 | ug/L 98  |
| 14) Carbon disulfide   | 4.37  | 76  | 13641  | 0.885  | ug/L 96  |
| 16) Methylene chloride | 4.92  | 84  | 40043  | 6.081  | ug/L 89  |
| 30) Cyclohexane        | 7.95  | 56  | 15301  | 2.858  | ug/L 91  |
| 34) Benzene            | 8.32  | 78  | 10860m | 0.796  | ug/L     |
| 36) Methylcyclohexane  | 9.34  | 83  | 44709  | 7.614  | ug/L 89  |
| 44) Toluene            | 10.39 | 91  | 92713  | 6.413  | ug/L 99  |
| 53) Ethylbenzene       | 11.73 | 91  | 253105 | 15.368 | ug/L 99  |
| 54) m,p-Xylene         | 11.83 | 106 | 309420 | 50.797 | ug/L 97  |
| 55) o-xylene           | 12.16 | 106 | 203457 | 35.070 | ug/L 99  |
| 57) Isopropylbenzene   | 12.46 | 105 | 115018 | 7.240  | ug/L 97  |
| 69) Naphthalene        | 15.37 | 128 | 76498  | 19.506 | ug/L 100 |

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

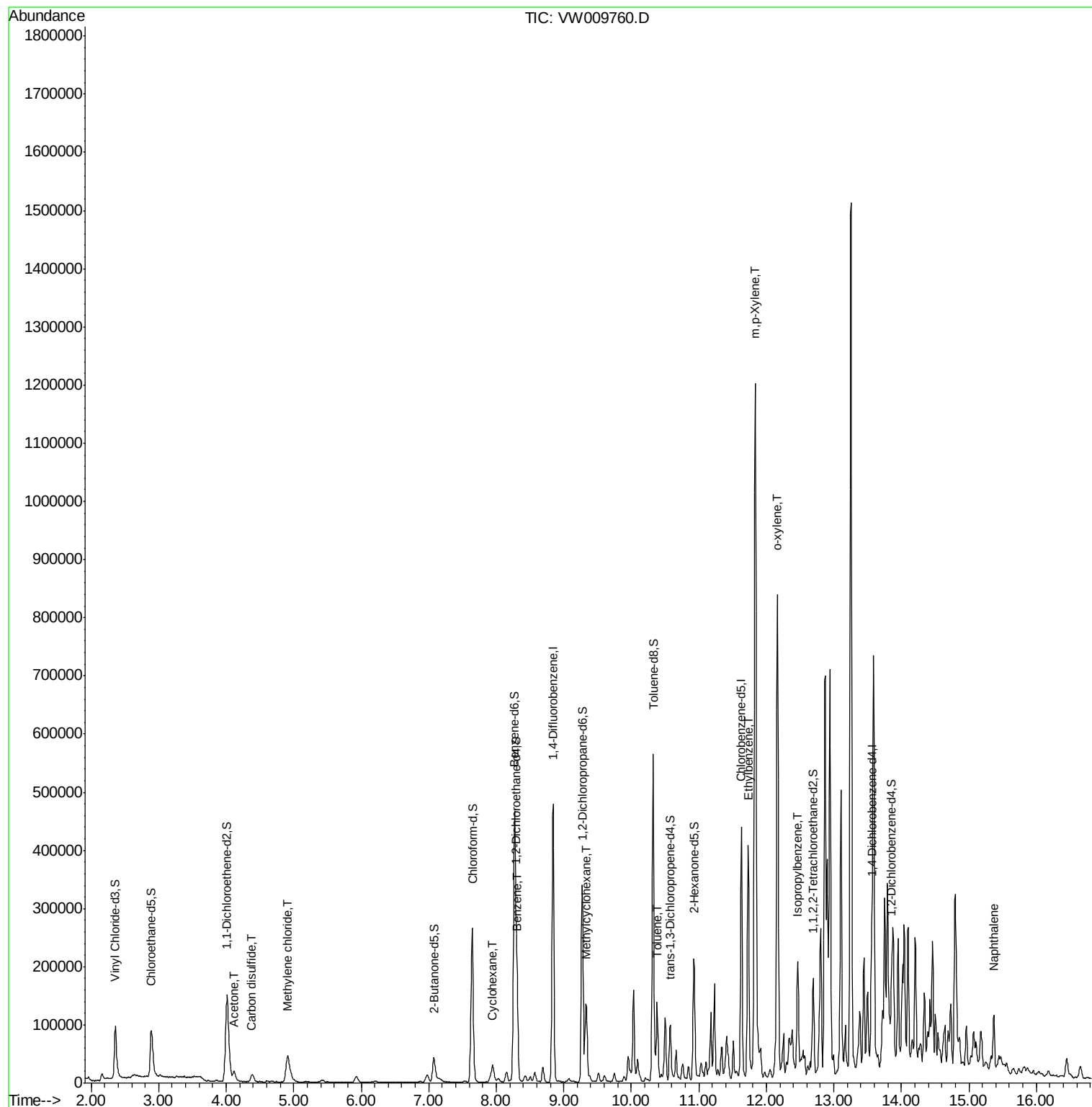
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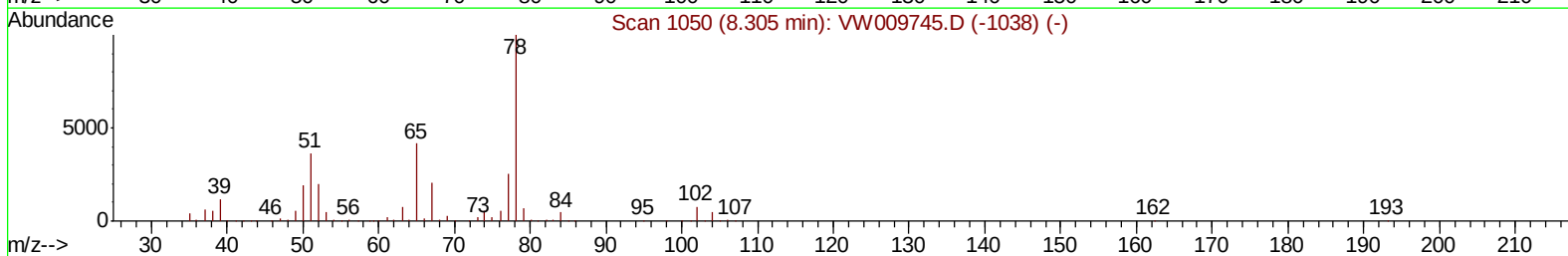
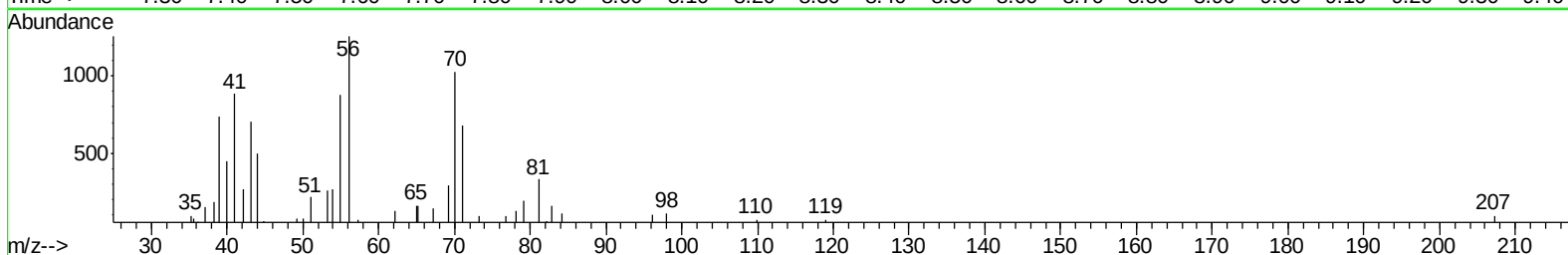
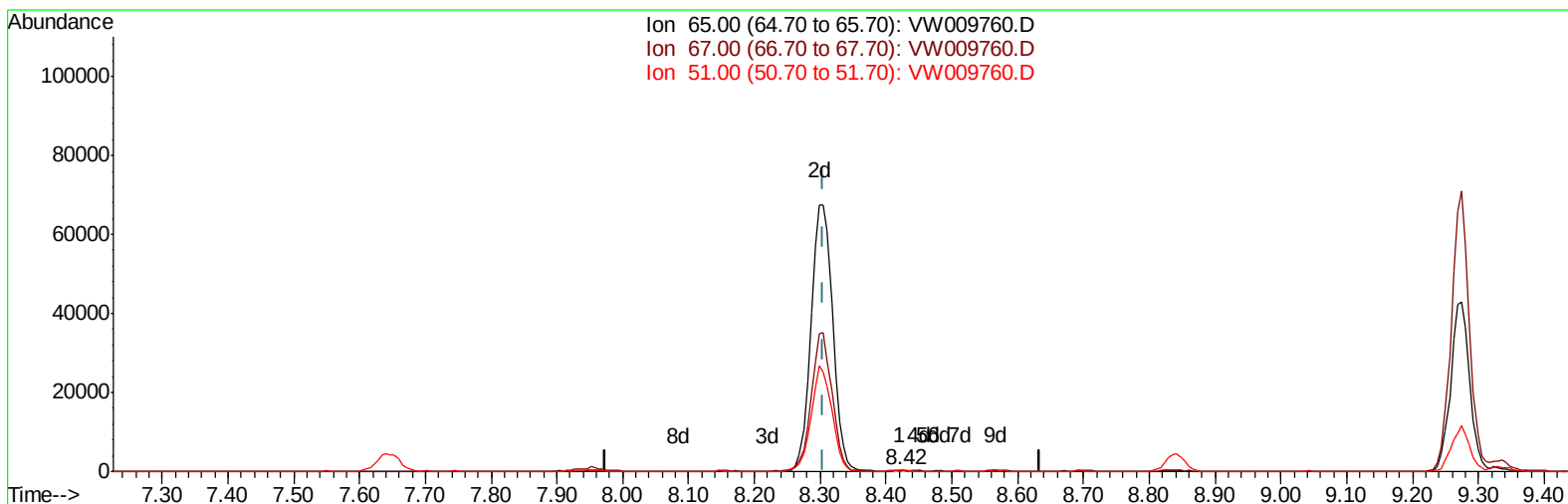
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 QLast Update : Sun Apr 07 03:43:12 2019  
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TIC: VW009760.D

(26) 1,2-Dichloroethane-d4 (S)

8.421min (+0.116) 0.05ug/L

response 342

| Ion   | Exp%   | Act%  |
|-------|--------|-------|
| 65.00 | 100    | 100   |
| 67.00 | 50.90  | 38.89 |
| 51.00 | 109.90 | 81.87 |
| 0.00  | 0.00   | 0.00  |

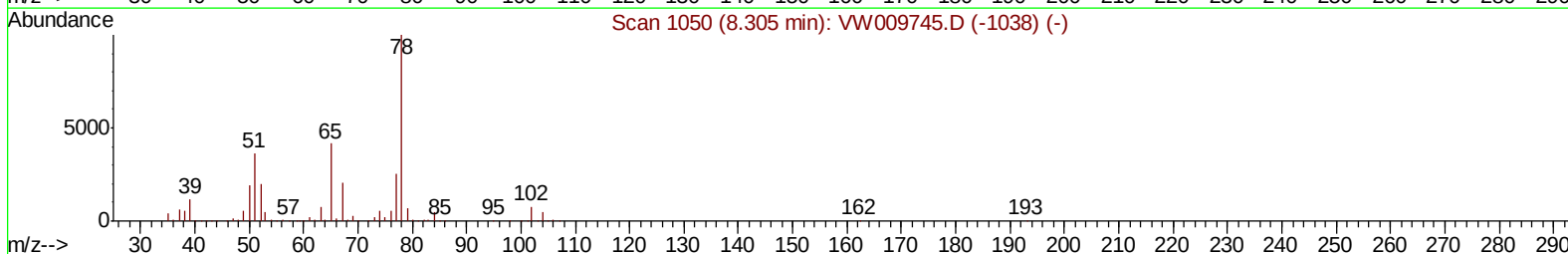
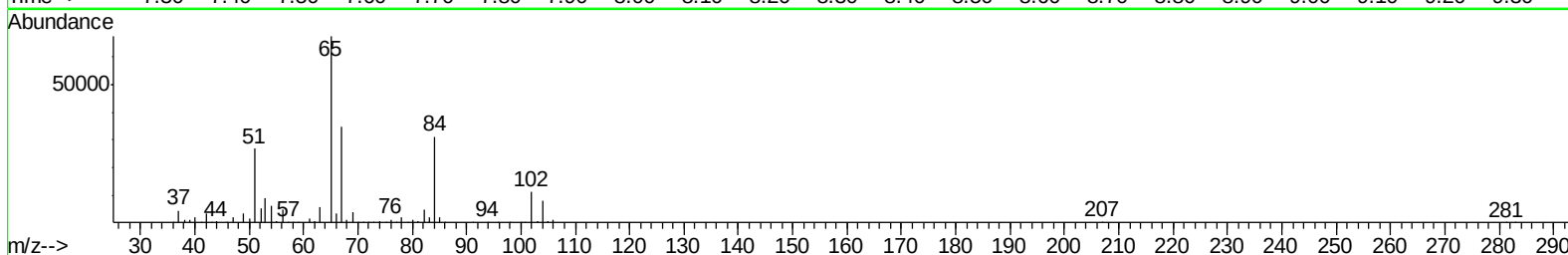
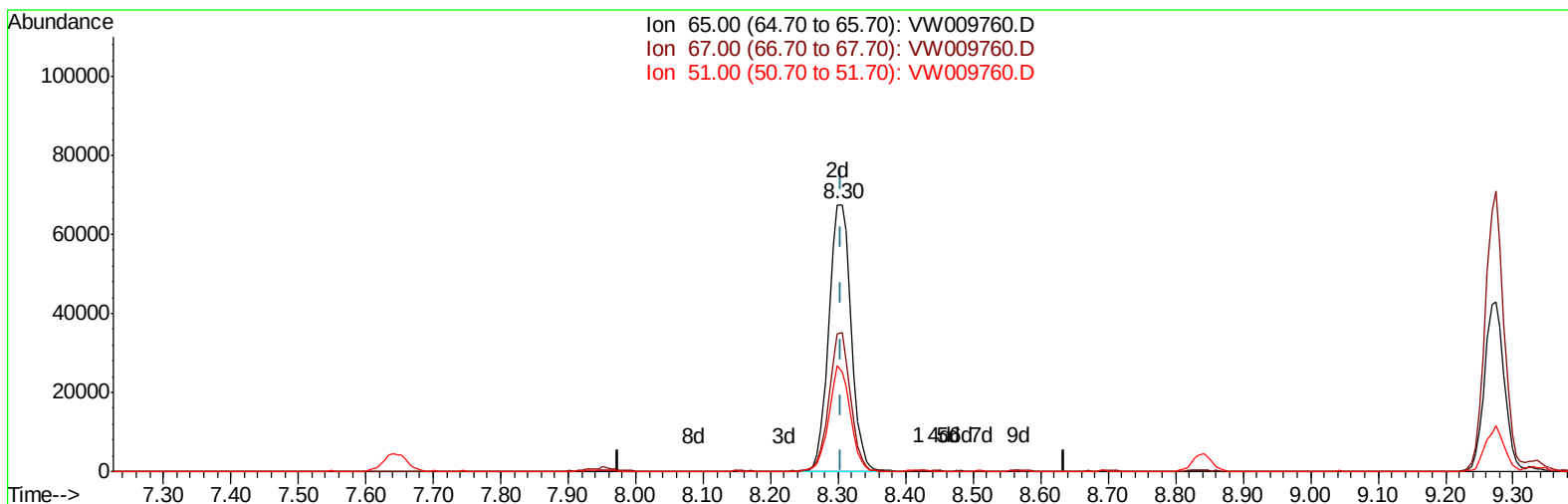
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TIC: VW009760.D

(26) 1,2-Dichloroethane-d4 (S)

8.299min (-0.006) 24.83ug/L m

response 155325

| Ion   | Exp%   | Act%  |
|-------|--------|-------|
| 65.00 | 100    | 100   |
| 67.00 | 50.90  | 0.09# |
| 51.00 | 109.90 | 0.18# |
| 0.00  | 0.00   | 0.00  |

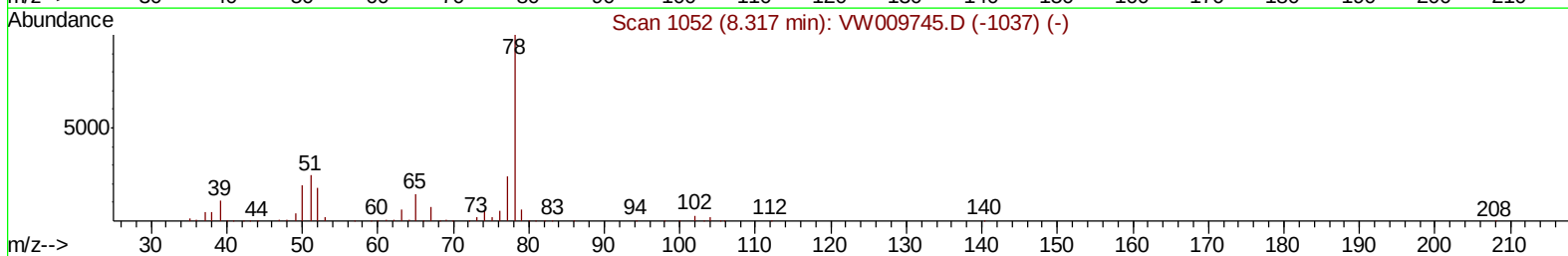
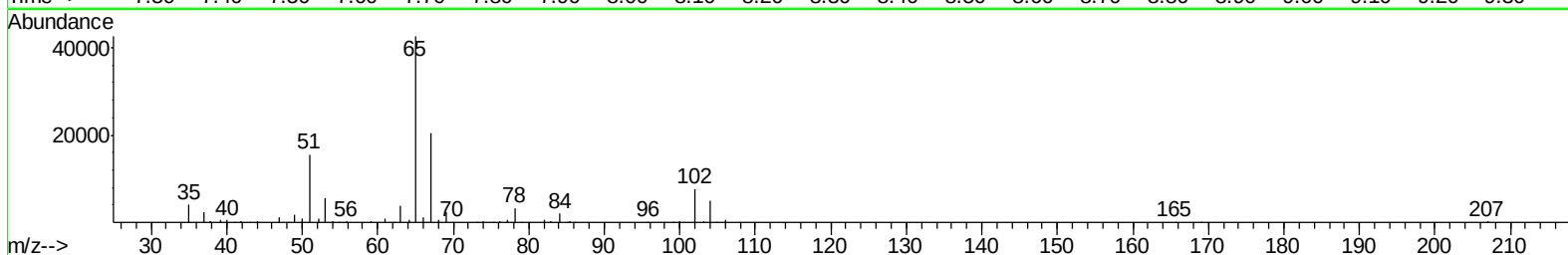
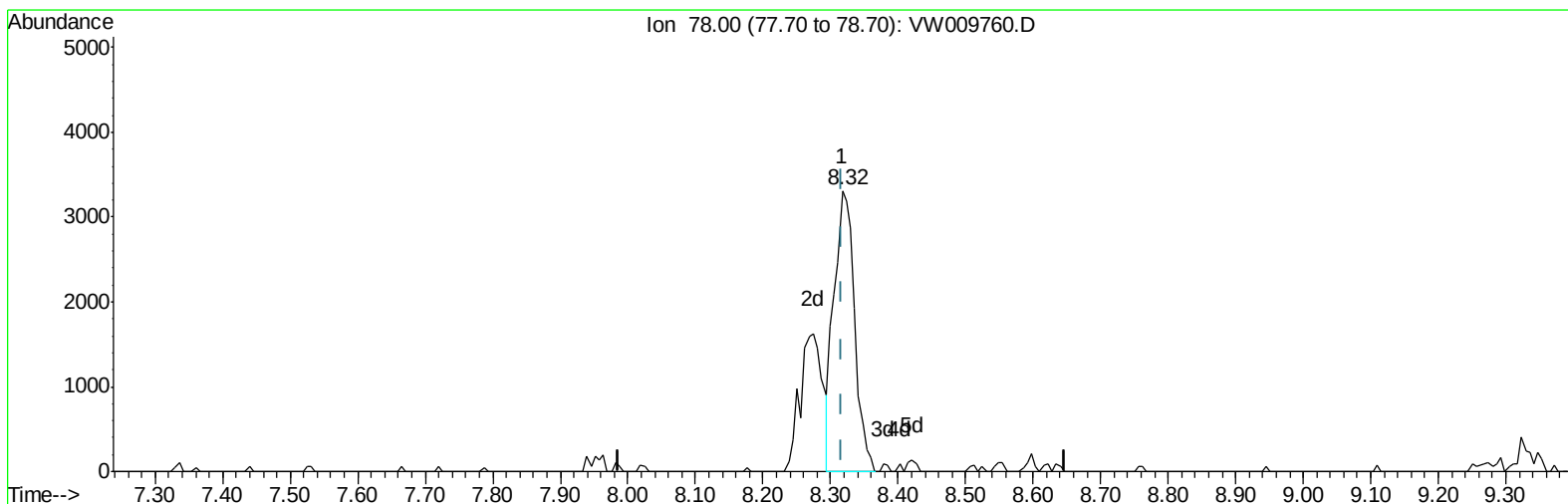
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TIC: VW009760.D

(34) Benzene (T)

8.317min (+0.000) 0.52ug/L

response 7108

| Ion   | Exp% | Act% |
|-------|------|------|
| 78.00 | 100  | 100  |
| 0.00  | 0.00 | 0.00 |
| 0.00  | 0.00 | 0.00 |
| 0.00  | 0.00 | 0.00 |

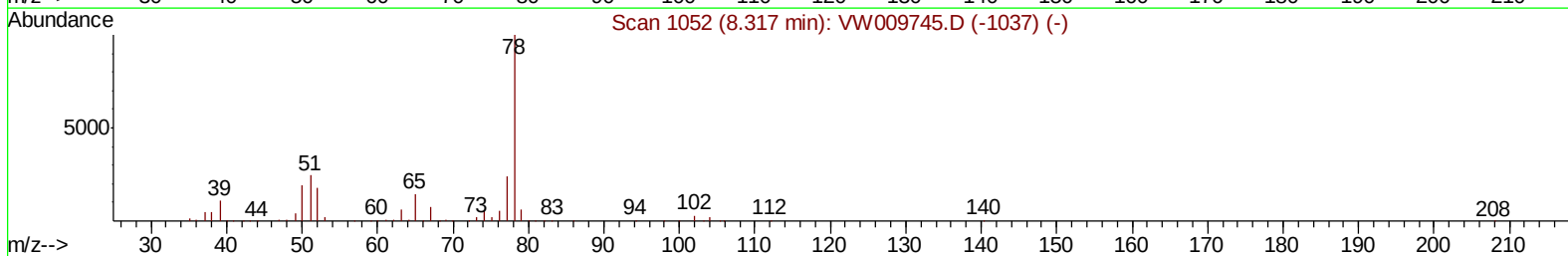
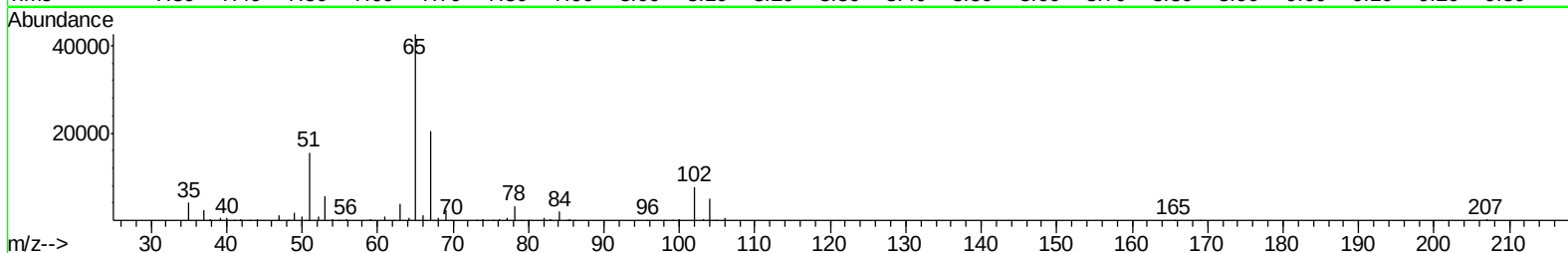
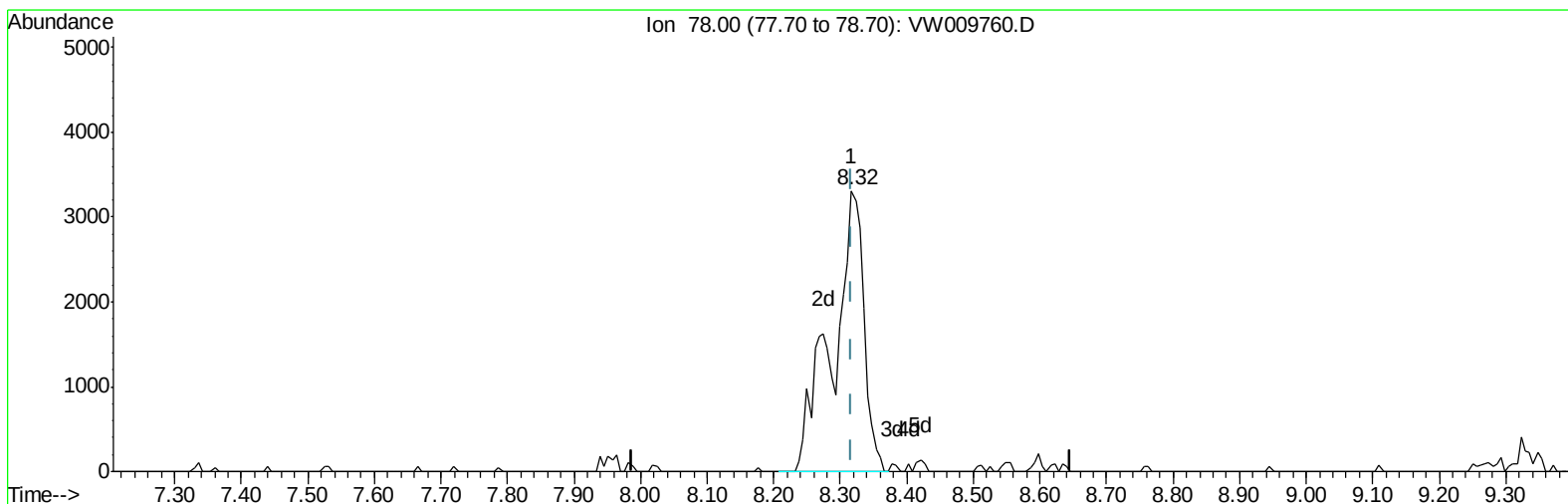
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TIC: VW009760.D

(34) Benzene (T)

8.317min (+0.000) 0.80ug/L m

response 10860

| Ion   | Exp% | Act% |
|-------|------|------|
| 78.00 | 100  | 100  |
| 0.00  | 0.00 | 0.00 |
| 0.00  | 0.00 | 0.00 |
| 0.00  | 0.00 | 0.00 |