

Data File : VU033805.D

Acq On : 15 Aug 2019 12:14

Operator : JC/SP

Sample : MDL04

Misc : 25.0mL/MSVOA\_U/WATER

ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

Manual Integrations  
APPROVED

MMDadoda  
8/16/2019 12:45:15 PM

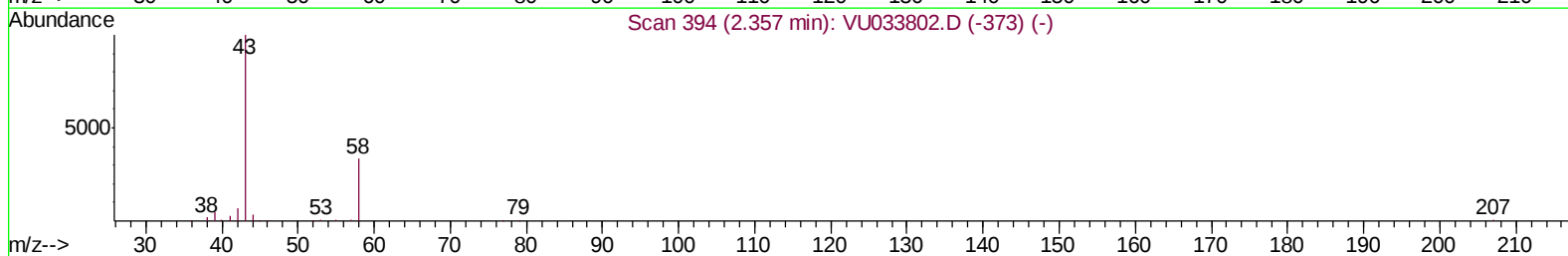
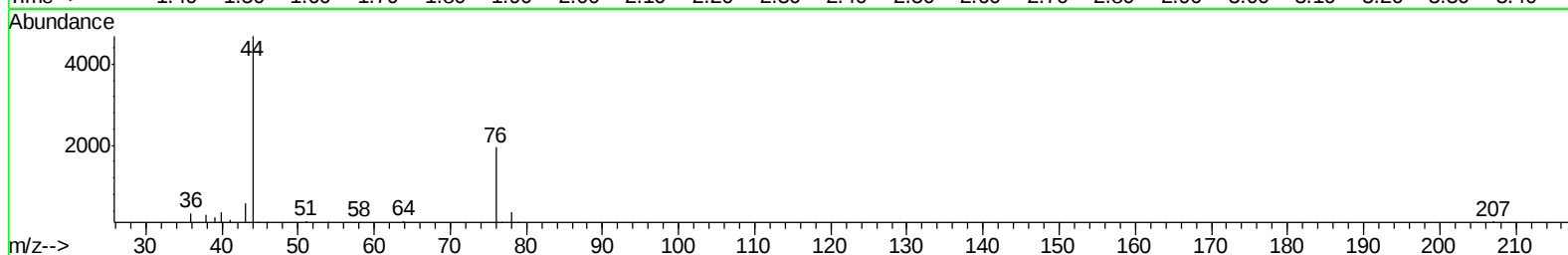
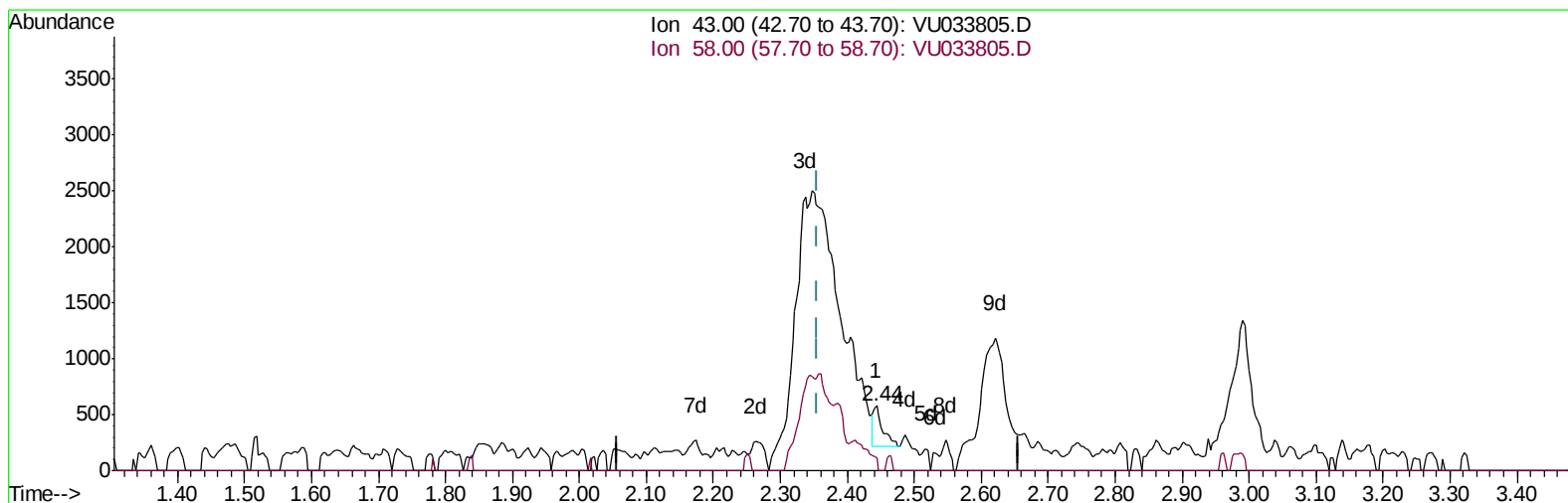
Quant Time: Aug 16 01:12:16 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMUTR081419WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Fri Aug 16 01:09:16 2019

Response via : Initial Calibration



TIC: VU033805.D

(13) Acetone (T)

2.444min (+0.087) 0.09ug/L

response 340

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 43.00 | 100   | 100   |
| 58.00 | 13.50 | 20.88 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

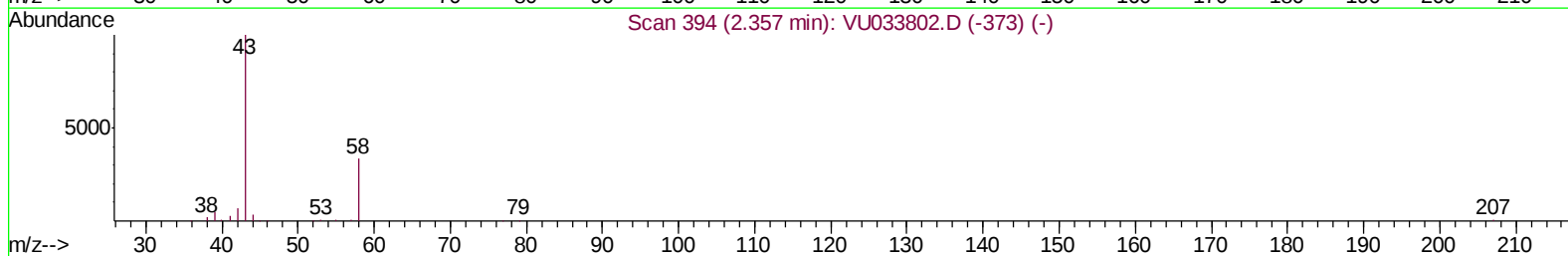
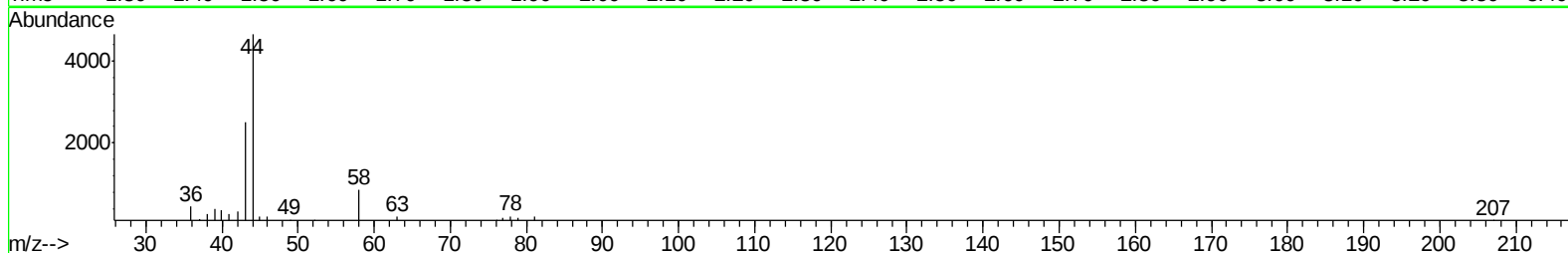
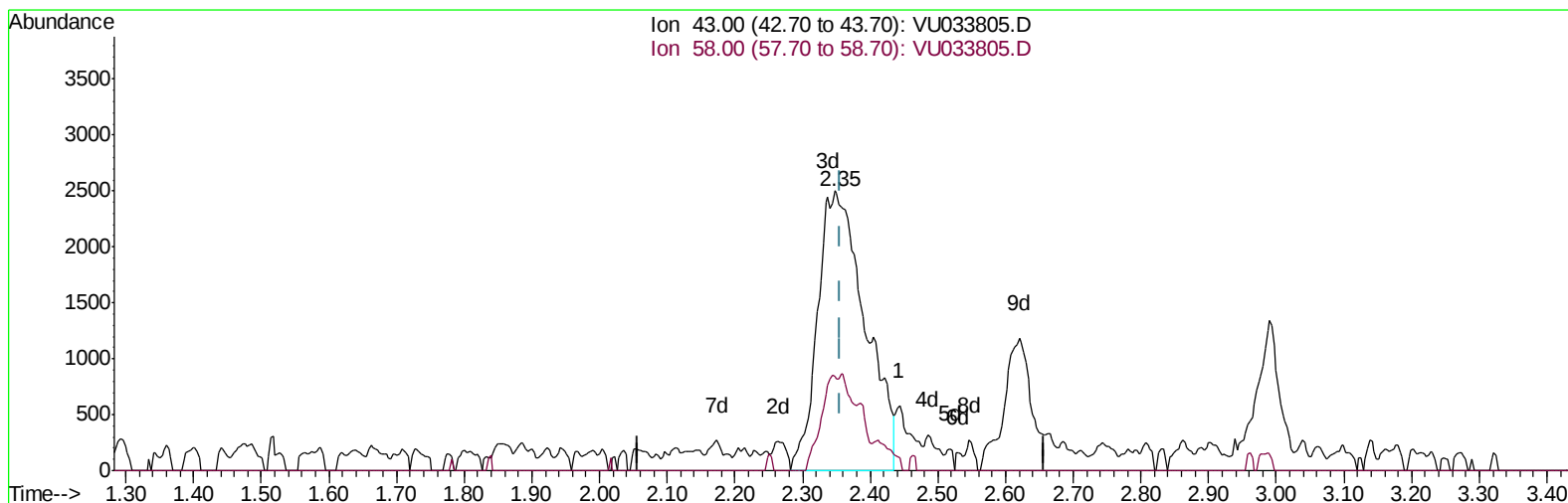
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TIC: VU033805.D

(13) Acetone (T)

2.347min (-0.010) 3.05ug/L m

response 12141

| Ion   | Exp%  | Act% |
|-------|-------|------|
| 43.00 | 100   | 100  |
| 58.00 | 13.50 | 0.58 |
| 0.00  | 0.00  | 0.00 |
| 0.00  | 0.00  | 0.00 |

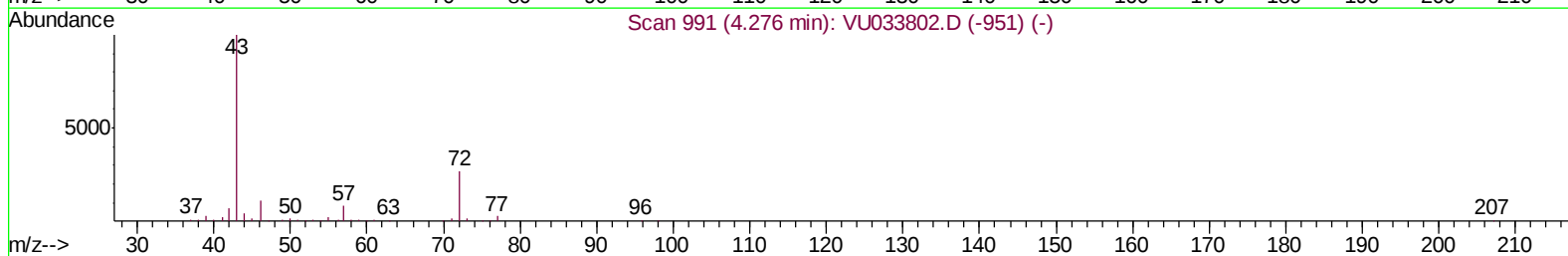
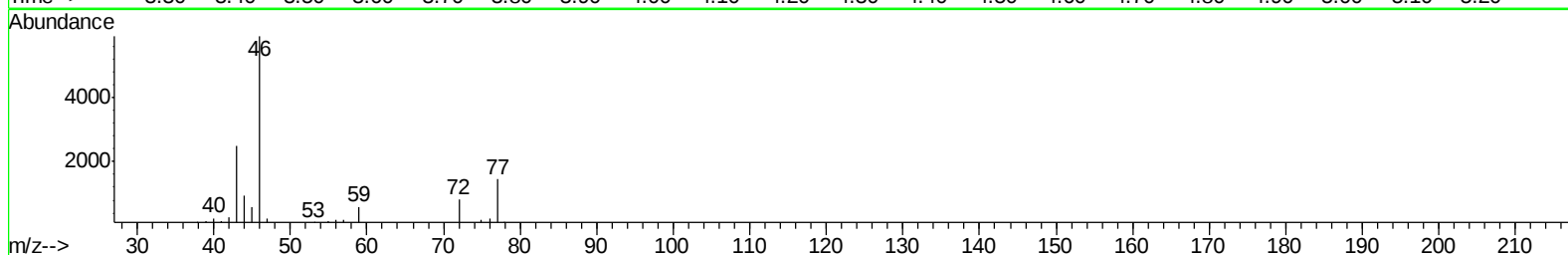
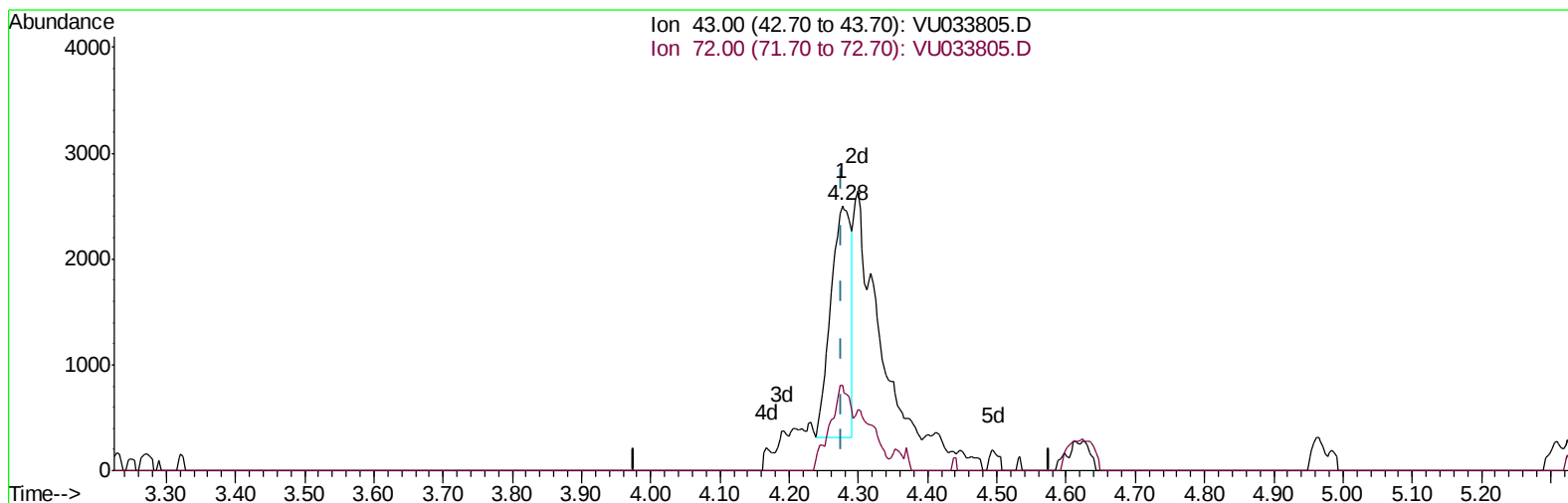
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Instrument :  
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Response via : Initial Calibration



TIC: VU033805.D

(21) 2-Butanone (T)  
4.276min (-0.000) 0.88ug/L

response 4347

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 43.00 | 100   | 100   |
| 72.00 | 26.10 | 38.65 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

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ALS Vial : 5 Sample Multiplier: 1

Instrument :  
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Manual Integrations  
APPROVED

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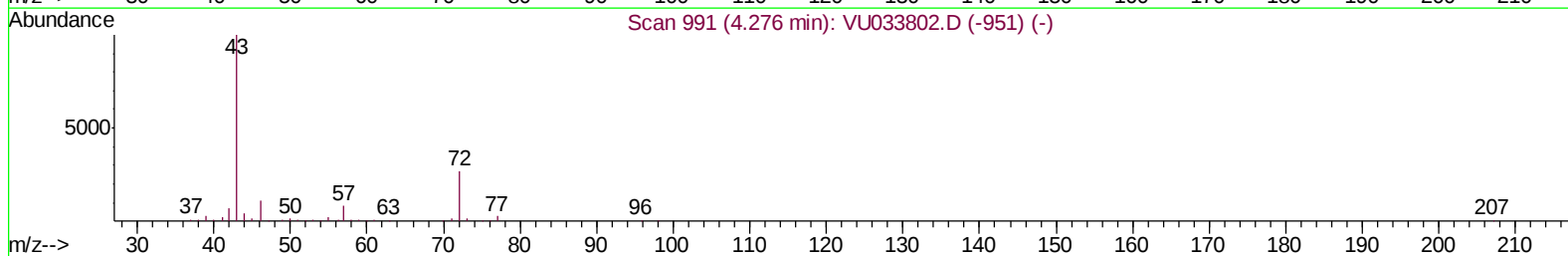
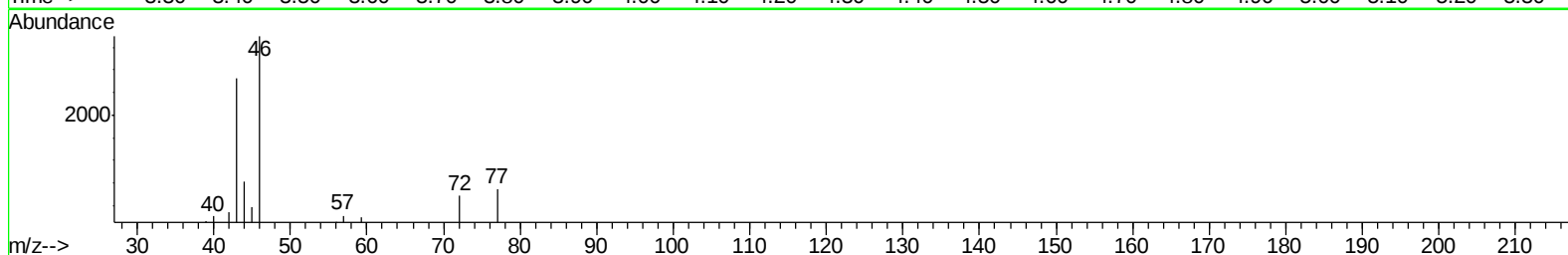
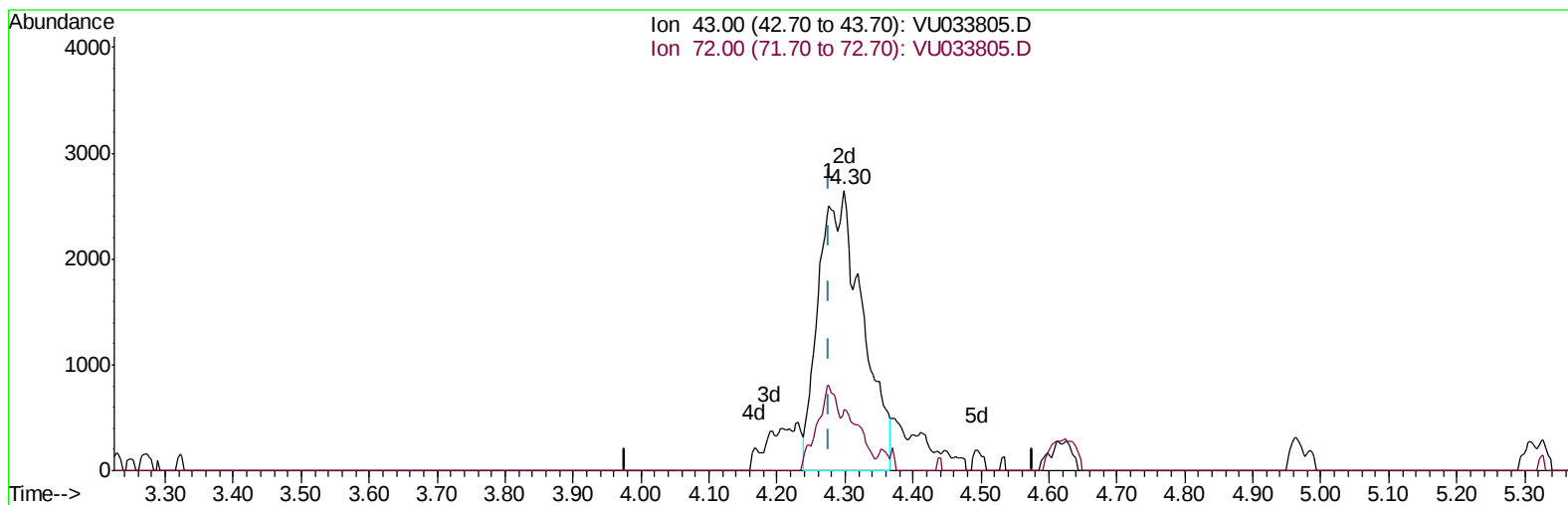
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TIC: VU033805.D

(21) 2-Butanone (T)

4.299min (+0.022) 2.40ug/L m

response 11809

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 43.00 | 100   | 100   |
| 72.00 | 26.10 | 14.23 |
| 0.00  | 0.00  | 0.00  |
| 0.00  | 0.00  | 0.00  |

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ALS Vial : 5 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
MDL04

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MMDadoda  
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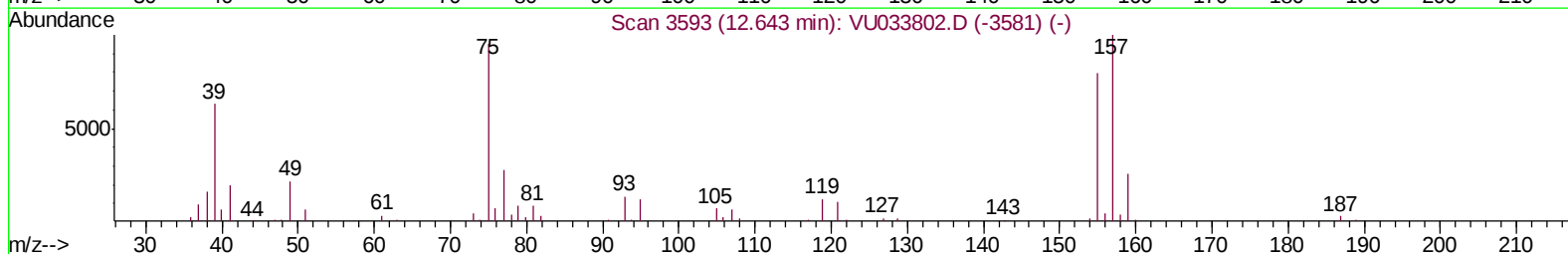
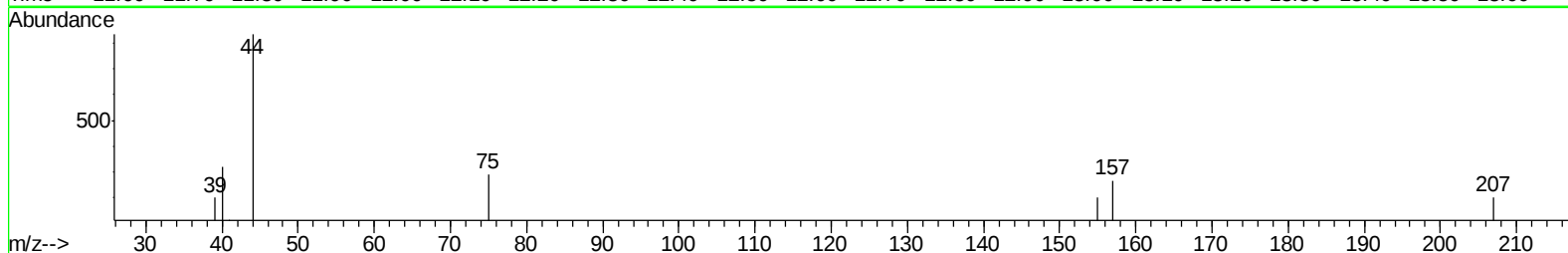
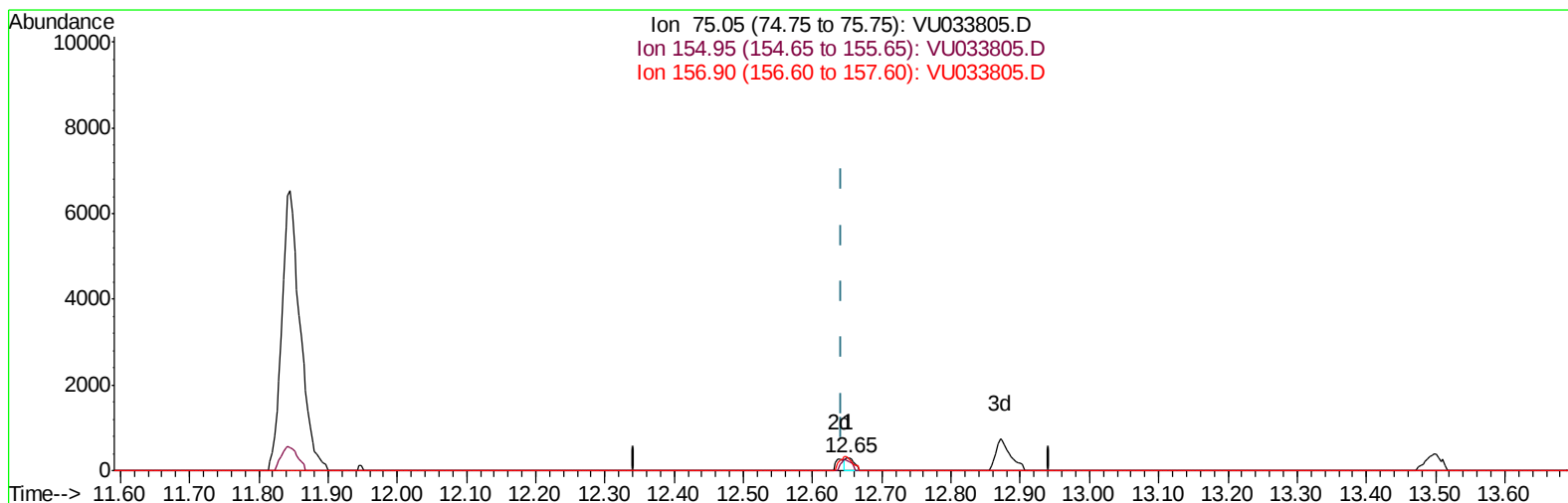
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TIC: VU033805.D

(68) 1,2-Dibromo-3-chloropropane (T)

12.652min (+0.009) 0.10ug/L

response 244

| Ion    | Exp%   | Act%  |
|--------|--------|-------|
| 75.05  | 100    | 100   |
| 154.95 | 84.10  | 69.07 |
| 156.90 | 106.60 | 91.41 |
| 0.00   | 0.00   | 0.00  |

Data File : VU033805.D

Acq On : 15 Aug 2019 12:14

Operator : JC/SP

Sample : MDL04

Misc : 25.0mL/MSVOA\_U/WATER

ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
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Manual Integrations  
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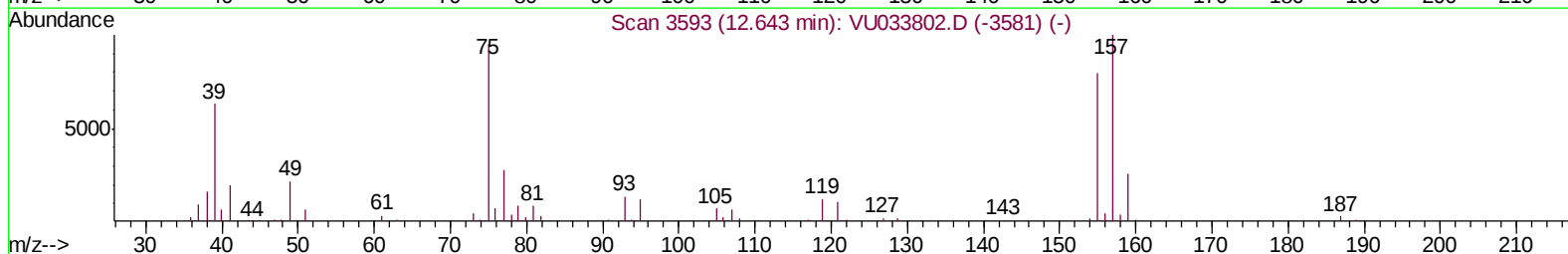
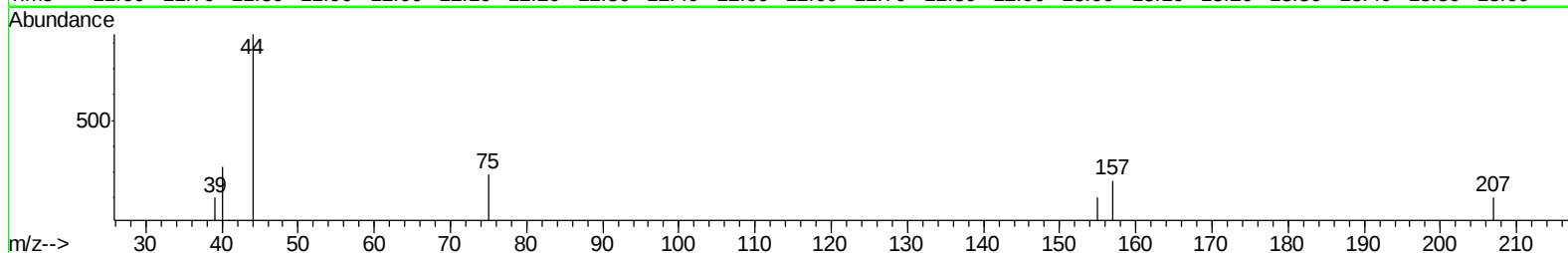
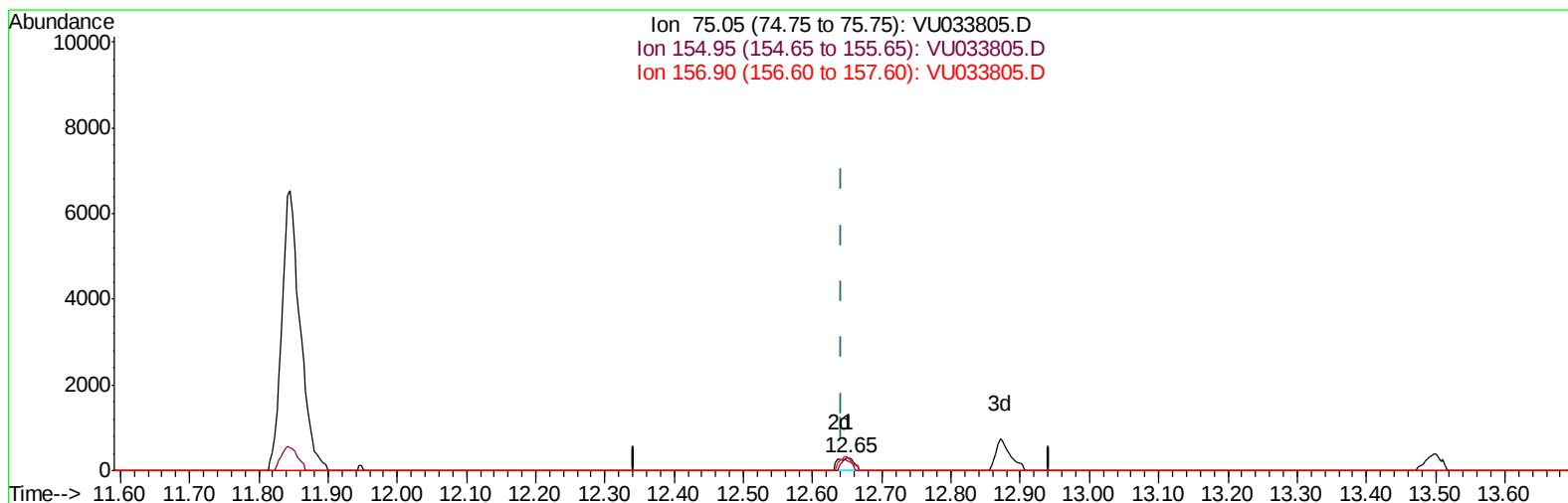
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Quant Title : TRACE VOA SOM01.0

QLast Update : Fri Aug 16 01:09:16 2019

Response via : Initial Calibration



TIC: VU033805.D

(68) 1,2-Dibromo-3-chloropropane (T)

12.652min (+0.009) 0.21ug/L m

response 480

| Ion    | Exp%   | Act%  |
|--------|--------|-------|
| 75.05  | 100    | 100   |
| 154.95 | 84.10  | 69.07 |
| 156.90 | 106.60 | 91.41 |
| 0.00   | 0.00   | 0.00  |

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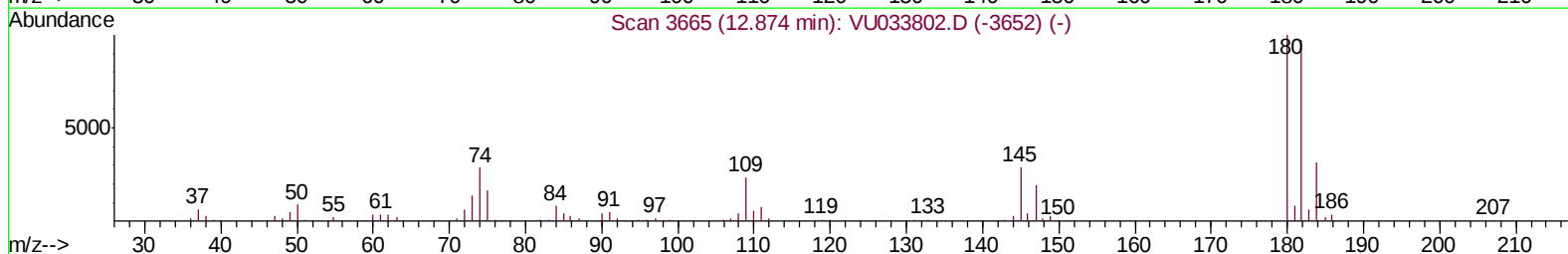
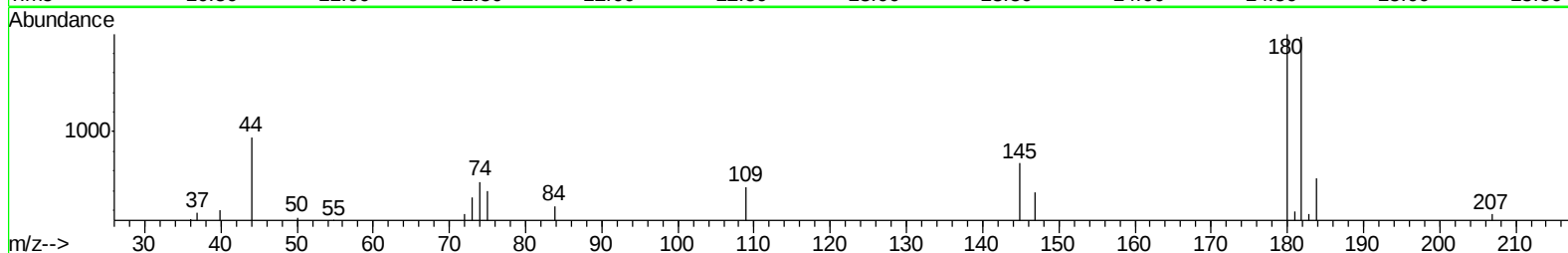
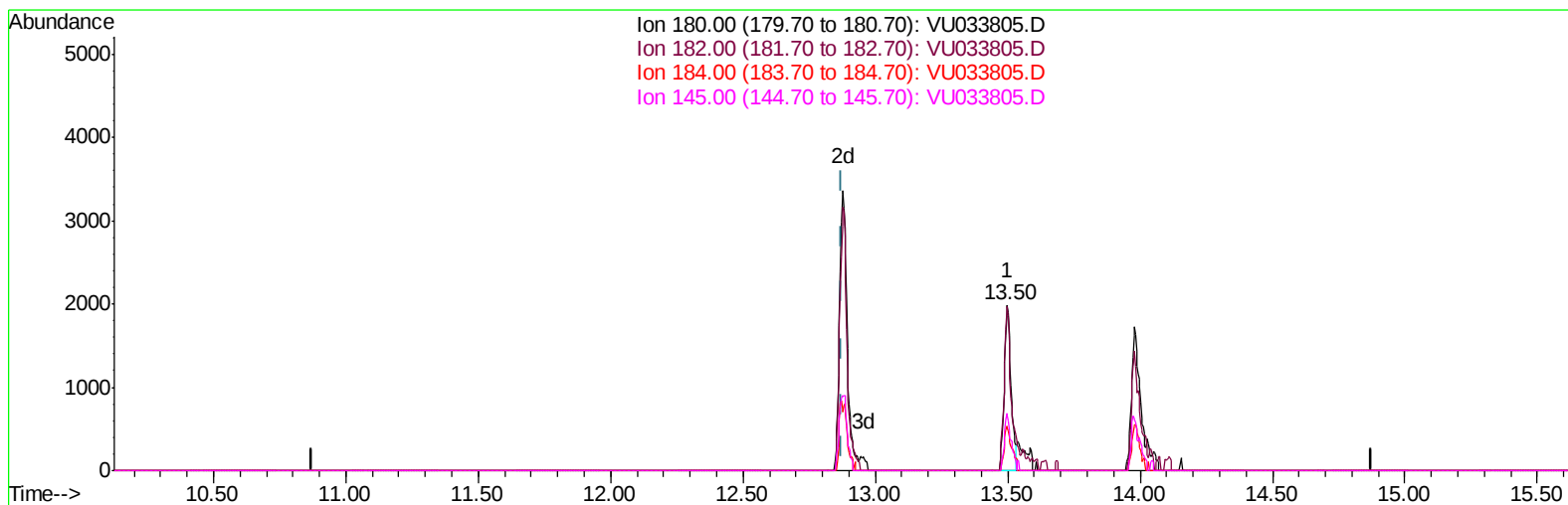
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TIC: VU033805.D

(69) 1,3,5-Trichlorobenzene

13.498min (+0.624) 0.14ug/L

response 3491

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 180.00 | 100   | 100    |
| 182.00 | 95.70 | 107.71 |
| 184.00 | 30.50 | 29.56  |
| 145.00 | 29.10 | 34.17  |

Data File : VU033805.D

Acq On : 15 Aug 2019 12:14

Operator : JC/SP

Sample : MDL04

Misc : 25.0mL/MSVOA\_U/WATER

ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

Manual Integrations  
APPROVED

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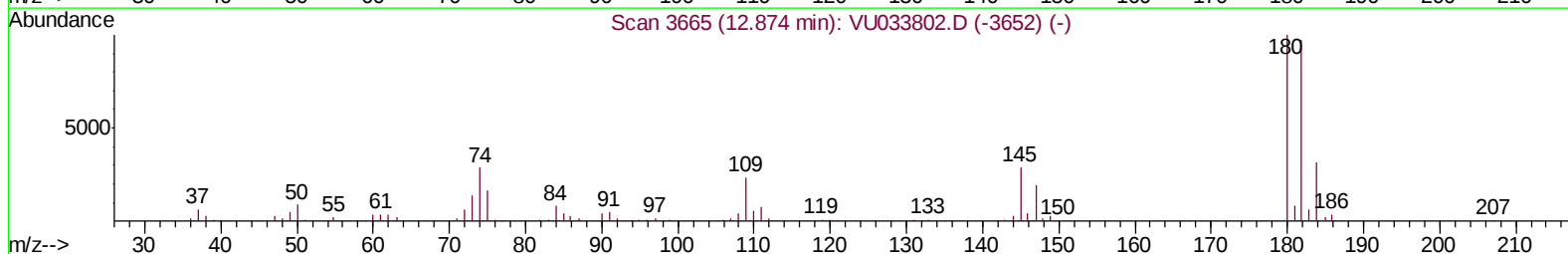
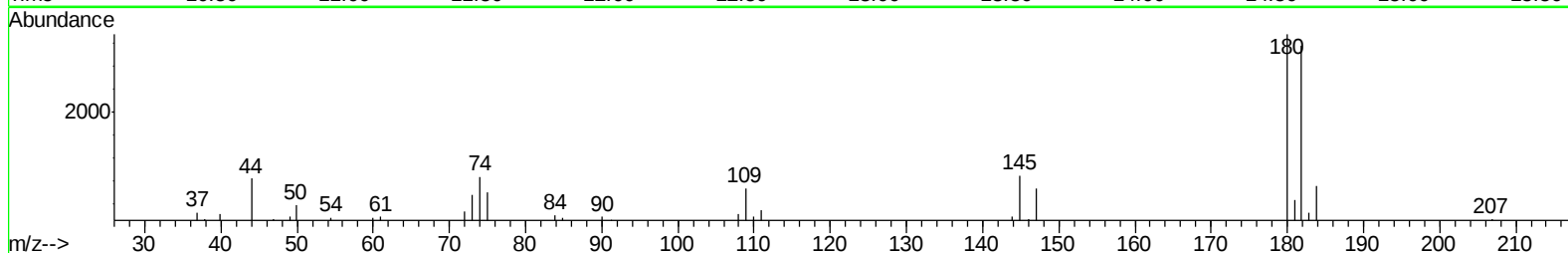
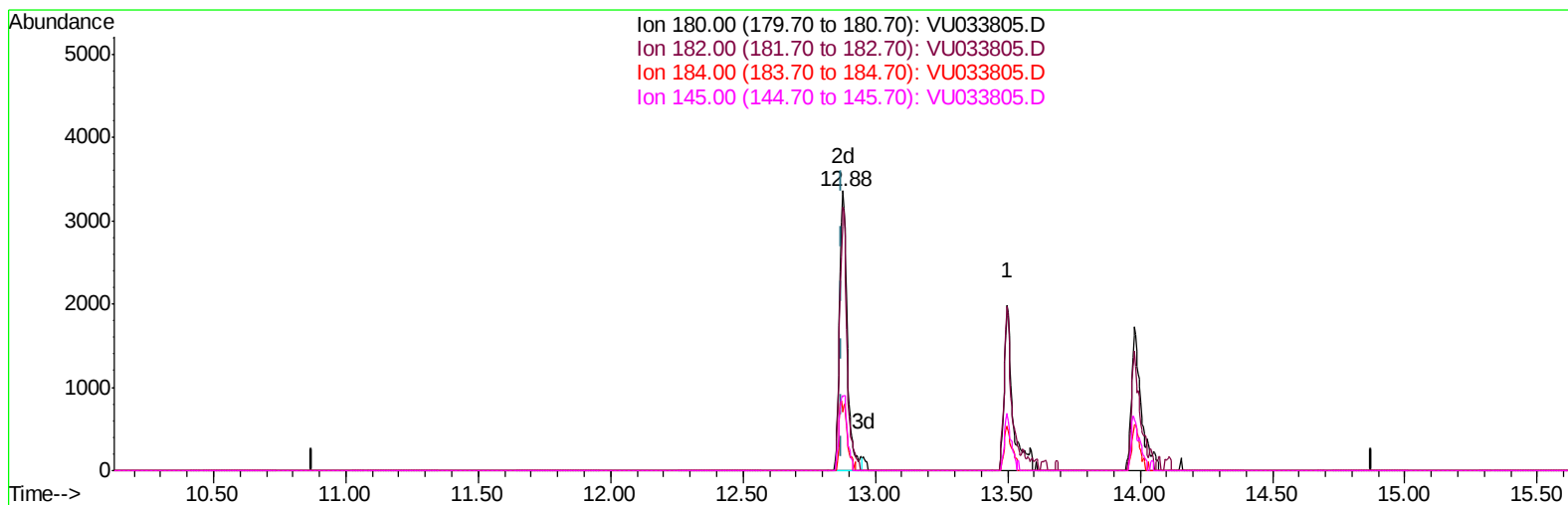
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Quant Title : TRACE VOA SOM01.0

QLast Update : Fri Aug 16 01:09:16 2019

Response via : Initial Calibration



TIC: VU033805.D

(69) 1,3,5-Trichlorobenzene

12.877min (+0.003) 0.26ug/L m

response 6613

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 180.00 | 100   | 100    |
| 182.00 | 95.70 | 56.86# |
| 184.00 | 30.50 | 15.61# |
| 145.00 | 29.10 | 18.04# |

Data File : VU033805.D

Acq On : 15 Aug 2019 12:14

Operator : JC/SP

Sample : MDL04

Misc : 25.0mL/MSVOA\_U/WATER

ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

Manual Integrations  
APPROVED

MMDadoda  
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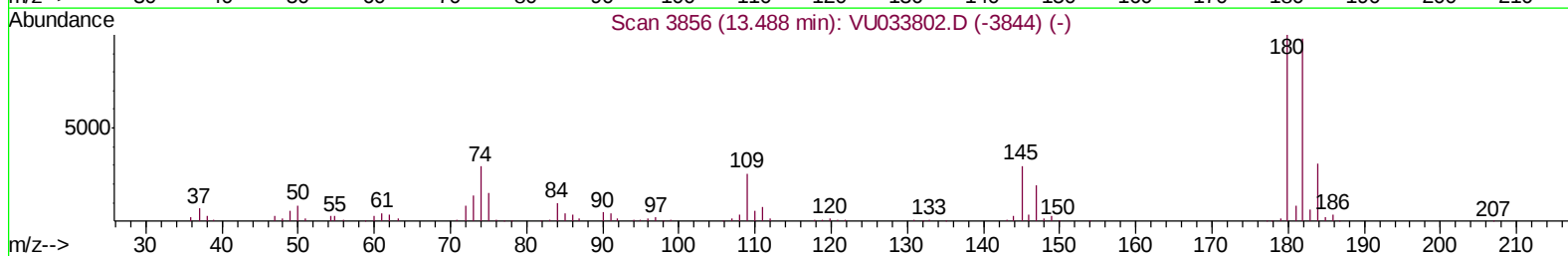
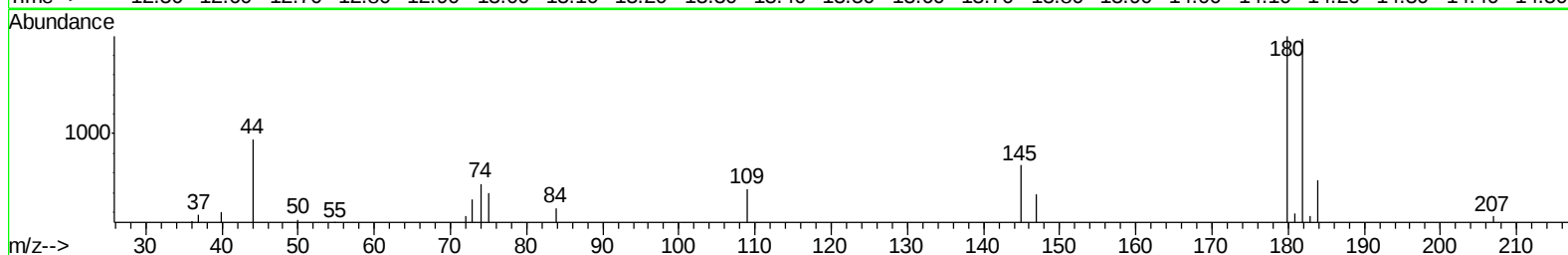
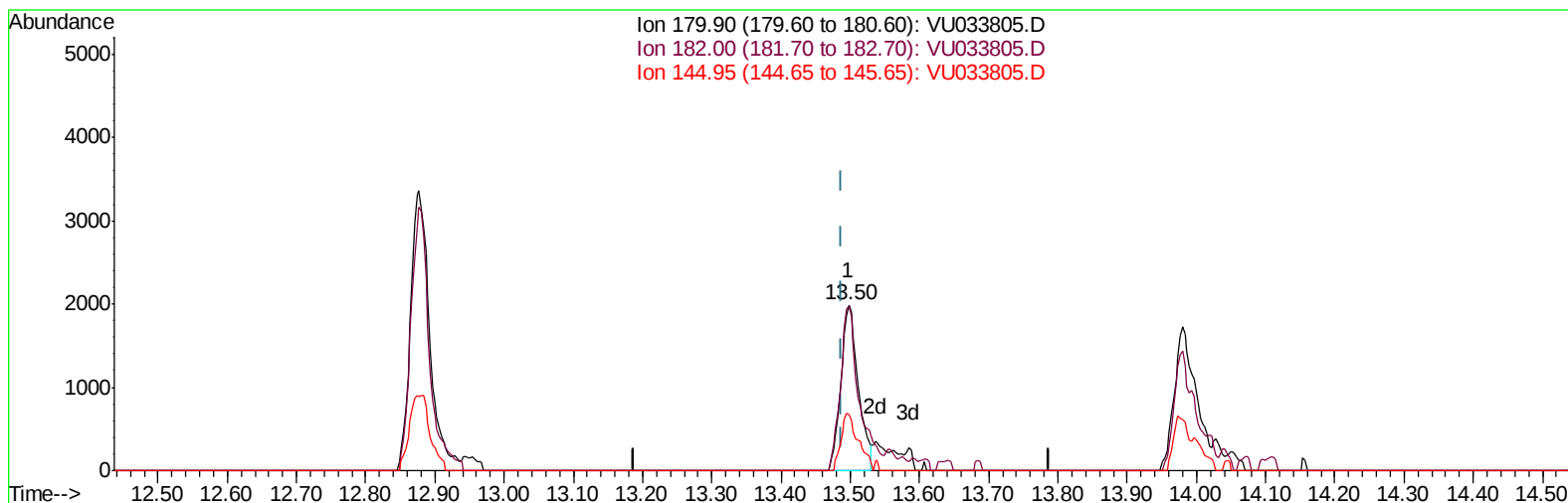
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TIC: VU033805.D

(70) 1,2,4-trichlorobenzene (T)

13.498min (+0.009) 0.17ug/L

response 3491

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 179.90 | 100   | 100    |
| 182.00 | 96.80 | 107.71 |
| 144.95 | 29.40 | 34.17  |
| 0.00   | 0.00  | 0.00   |

Data File : VU033805.D

Acq On : 15 Aug 2019 12:14

Operator : JC/SP

Sample : MDL04

Misc : 25.0mL/MSVOA\_U/WATER

ALS Vial : 5 Sample Multiplier: 1

Instrument :

MSVOA\_U

ClientSampleId :

MDL04

Manual Integrations  
APPROVED

MMDadoda  
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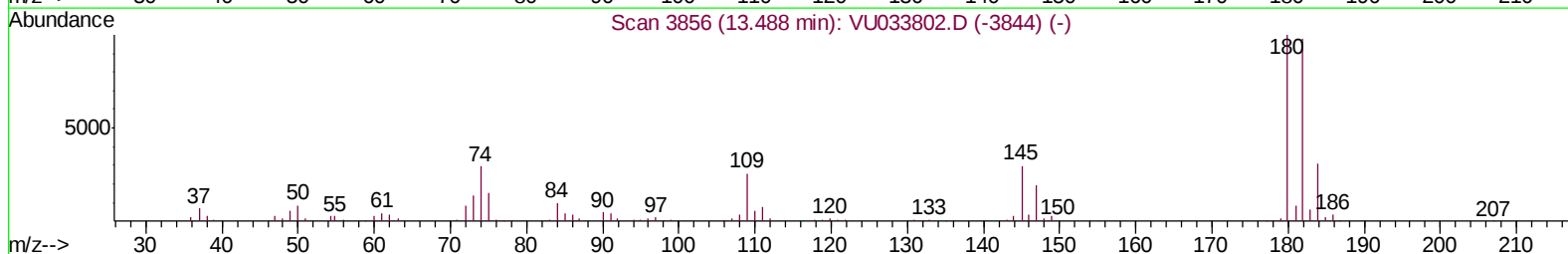
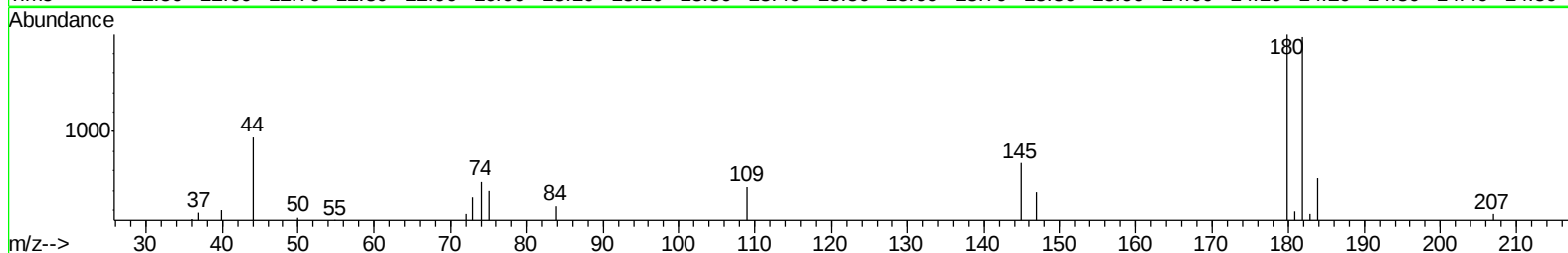
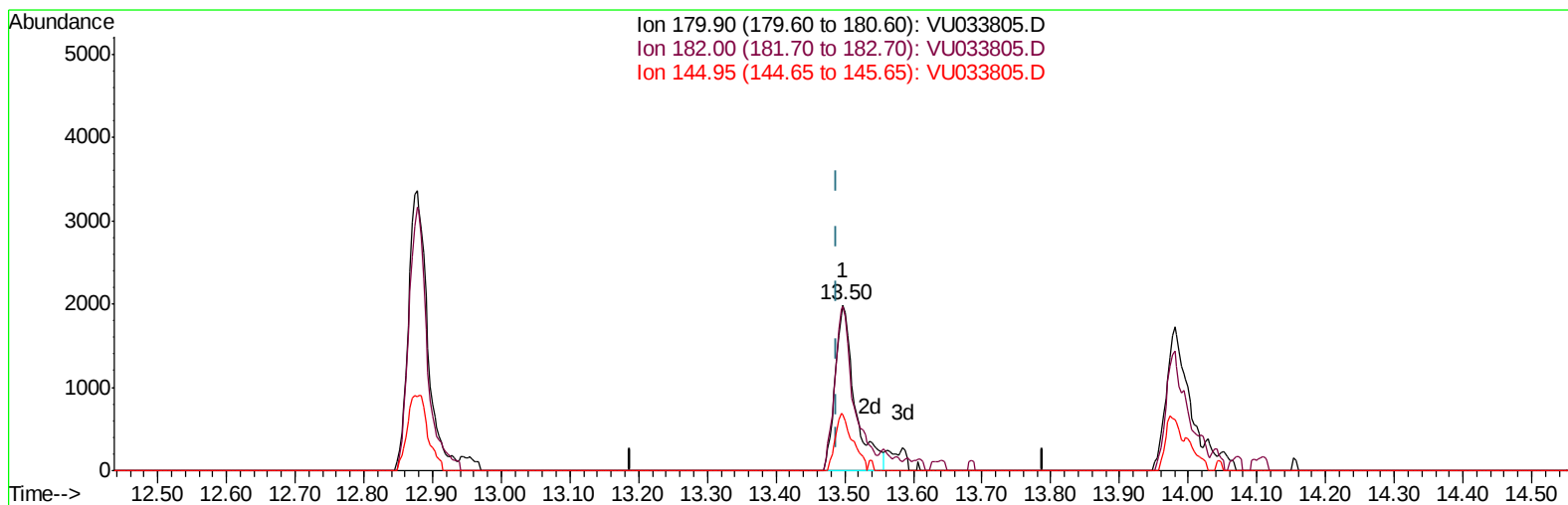
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TIC: VU033805.D

(70) 1,2,4-trichlorobenzene (T)

13.498min (+0.009) 0.20ug/L m

response 3925

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 179.90 | 100   | 100   |
| 182.00 | 96.80 | 95.80 |
| 144.95 | 29.40 | 30.39 |
| 0.00   | 0.00  | 0.00  |

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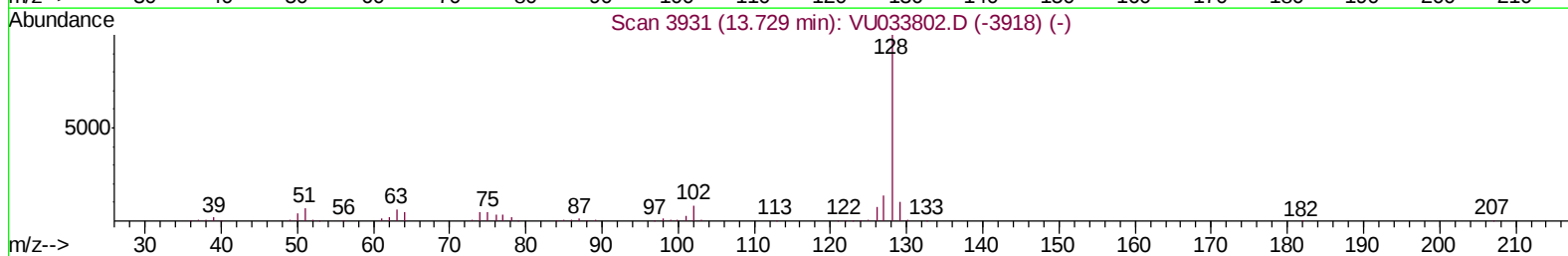
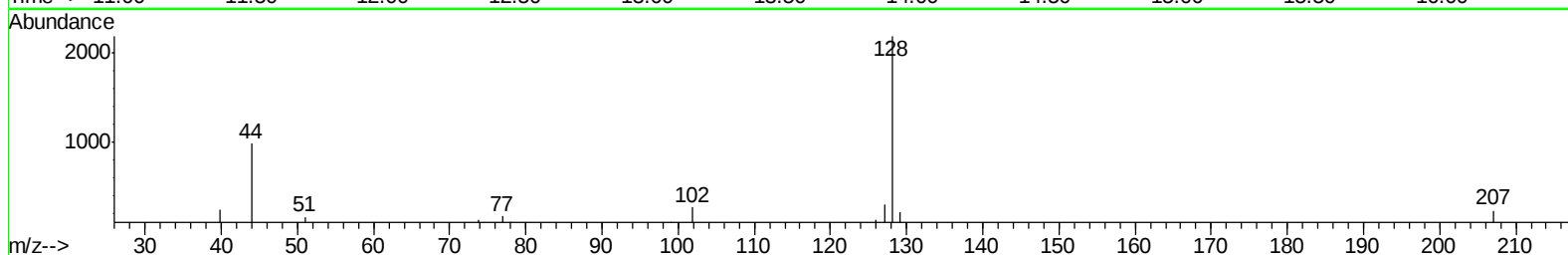
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TIC: VU033805.D

(71) Naphthalene

13.739min (+0.009) 0.15ug/L

response 4612

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 128.00 | 100   | 100   |
| 129.00 | 10.60 | 6.70# |
| 127.00 | 14.00 | 9.76# |
| 0.00   | 0.00  | 0.00  |

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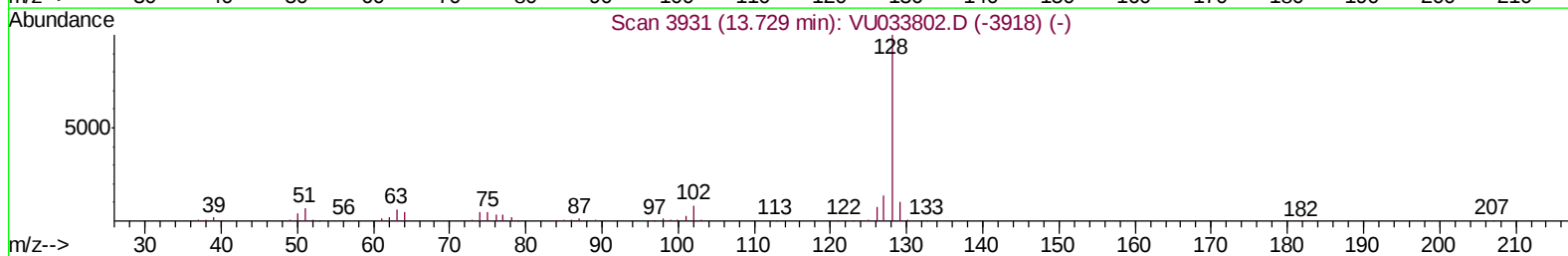
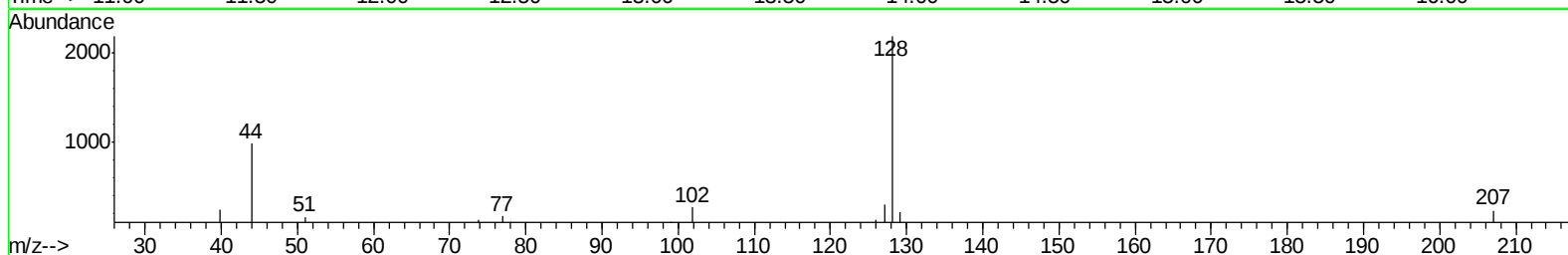
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TIC: VU033805.D

(71) Naphthalene

13.739min (+0.009) 0.19ug/L m

response 5945

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 128.00 | 100   | 100   |
| 129.00 | 10.60 | 5.20# |
| 127.00 | 14.00 | 7.57# |
| 0.00   | 0.00  | 0.00  |

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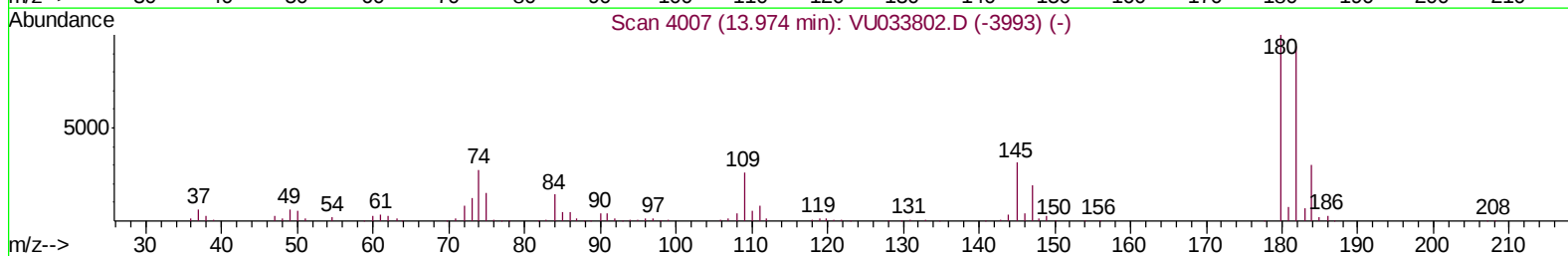
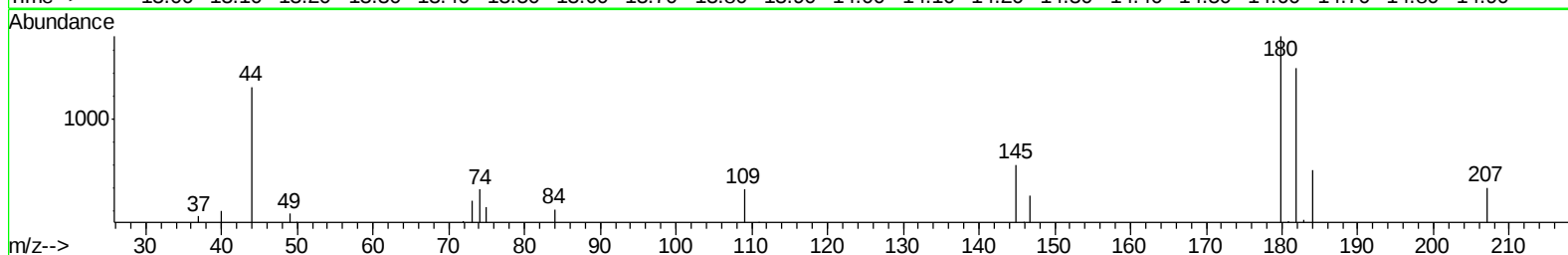
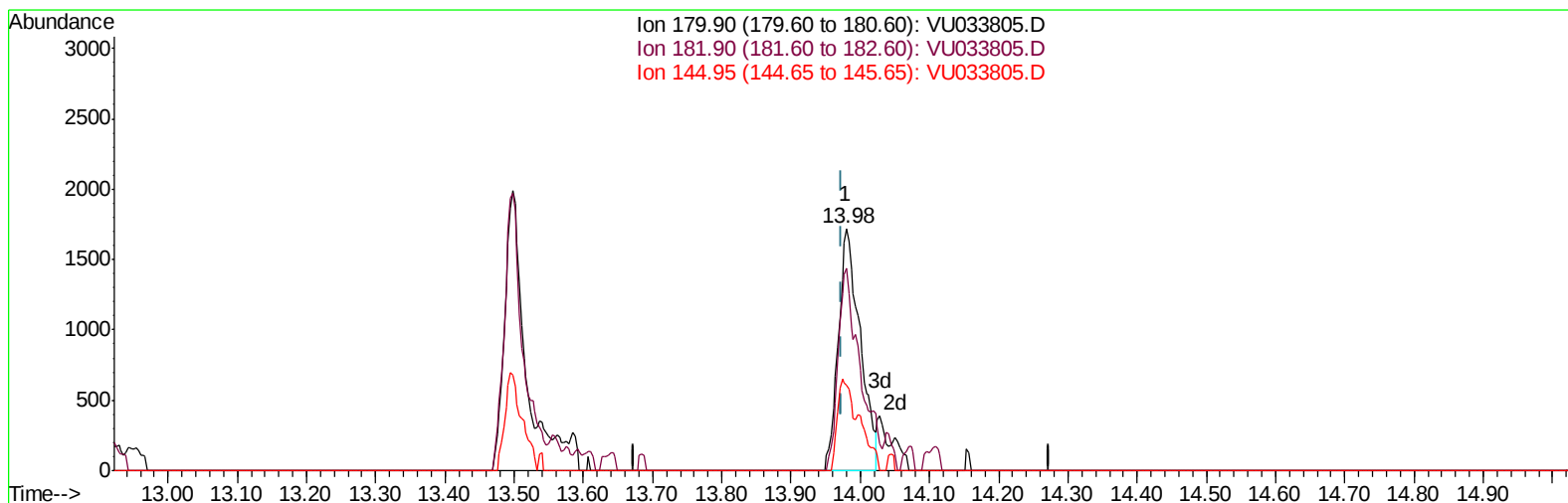
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TIC: VU033805.D

(72) 1,2,3-Trichlorobenzene (T)

13.980min (+0.006) 0.20ug/L

response 3748

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 179.90 | 100   | 100   |
| 181.90 | 94.60 | 85.51 |
| 144.95 | 30.40 | 25.91 |
| 0.00   | 0.00  | 0.00  |

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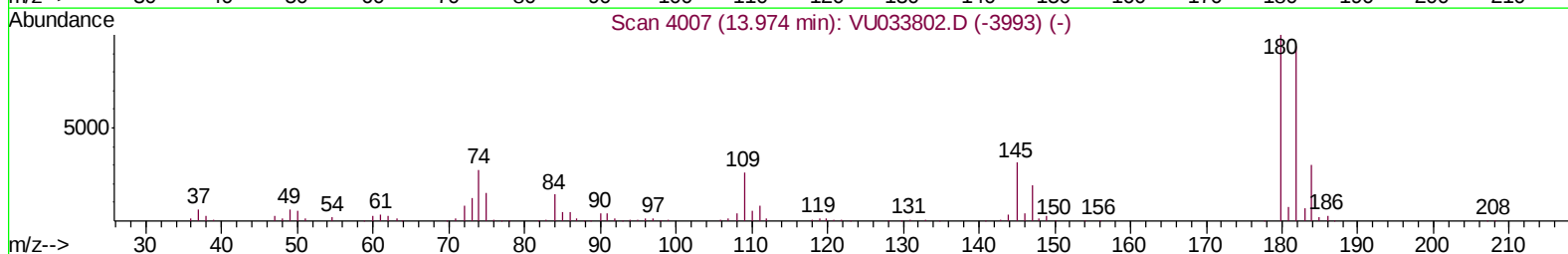
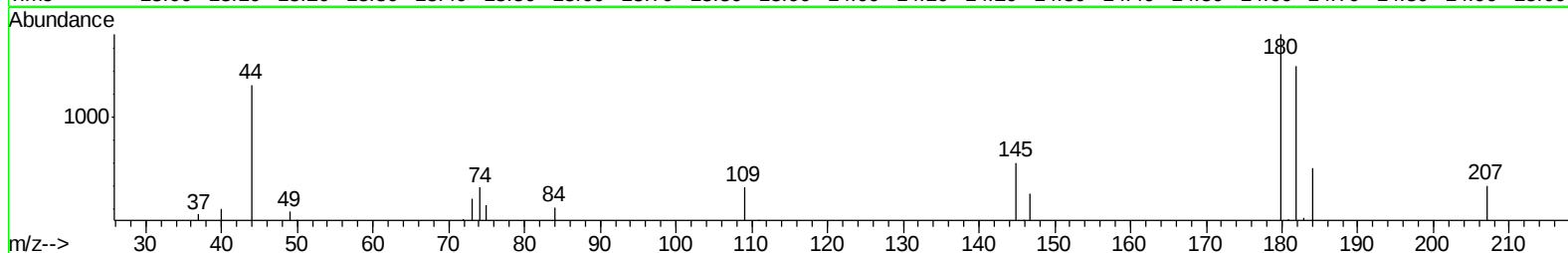
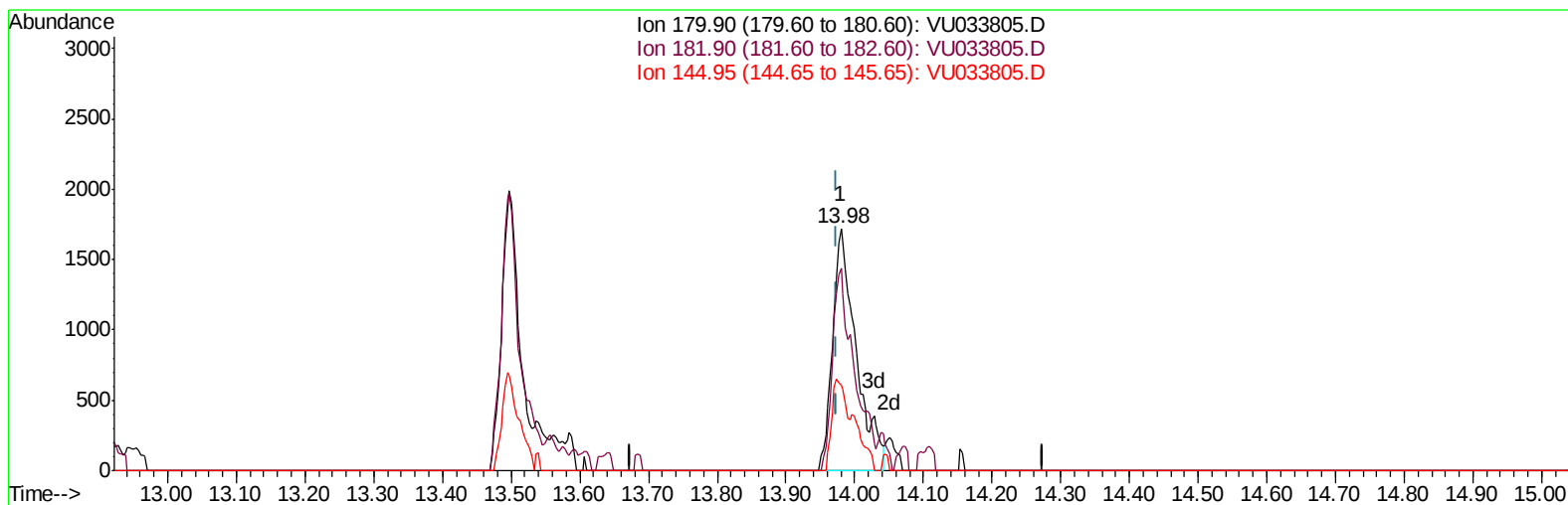
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TIC: VU033805.D

(72) 1,2,3-Trichlorobenzene (T)

13.980min (+0.006) 0.21ug/L m

response 4073

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 179.90 | 100   | 100    |
| 181.90 | 94.60 | 78.69  |
| 144.95 | 30.40 | 23.84# |
| 0.00   | 0.00  | 0.00   |

Data File : VU033805.D  
Acq On : 15 Aug 2019 12:14  
Operator : JC/SP  
Sample : MDL04  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

Manual Integrations  
APPROVED

MMDadoda  
8/16/2019 12:45:15 PM

Quant Time: Aug 16 01:23:41 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMUTR081419WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Aug 16 01:09:16 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 170595   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 175283   | 5.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 80558    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 84350    | 4.37     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 87.40%  |
| 7) Chloroethane-d5             | 1.67   | 69    | 72281    | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 95.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 65    | 39866    | 4.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 89.80%  |
| 20) 2-Butanone-d5              | 4.19   | 46    | 197425   | 52.92    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 105.84% |
| 24) Chloroform-d               | 4.62   | 84    | 135177   | 4.70     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.00%  |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 72995    | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.80%  |
| 32) Benzene-d6                 | 5.32   | 84    | 253955   | 4.71     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 94.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 85417    | 5.00     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 100.00% |
| 41) Toluene-d8                 | 7.55   | 98    | 210983   | 4.26     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 85.20%  |
| 43) trans-1,3-Dichloropropene- | 7.84   | 79    | 30948    | 4.58     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 91.60%  |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 134092   | 49.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 99.58%  |
| 56) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 72736    | 4.93     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.60%  |
| 66) 1,2-Dichlorobenzene-d4     | 11.85  | 152   | 83340    | 5.11     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 102.20% |

#### Target Compounds

|                                |      |     |        |              | Qvalue |
|--------------------------------|------|-----|--------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 5654   | 0.229 ug/L   | 93     |
| 3) Chloromethane               | 1.32 | 50  | 6545   | 0.255 ug/L   | 99     |
| 5) Vinyl chloride              | 1.39 | 62  | 6586   | 0.235 ug/L # | 58     |
| 6) Bromomethane                | 1.62 | 94  | 4073   | 0.250 ug/L   | 100    |
| 8) Chloroethane                | 1.69 | 64  | 4109   | 0.249 ug/L   | 91     |
| 9) Trichlorofluoromethane      | 1.87 | 101 | 9296   | 0.243 ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.27 | 101 | 6026   | 0.296 ug/L   | 89     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 6116   | 0.311 ug/L # | 1      |
| 13) Acetone                    | 2.35 | 43  | 12141m | 3.054 ug/L   |        |
| 14) Carbon disulfide           | 2.46 | 76  | 16732  | 0.251 ug/L   | 98     |
| 15) Methyl Acetate             | 2.62 | 43  | 3327   | 0.322 ug/L   | 99     |
| 16) Methylene chloride         | 2.68 | 84  | 7638   | 0.333 ug/L   | 97     |
| 17) Methyl tert-butyl Ether    | 2.99 | 73  | 11908  | 0.234 ug/L # | 94     |
| 18) trans-1,2-Dichloroethene   | 2.96 | 96  | 6083   | 0.288 ug/L   | 96     |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 7631   | 0.231 ug/L   | 99     |
| 21) 2-Butanone                 | 4.30 | 43  | 11809m | 2.399 ug/L   |        |
| 22) cis-1,2-Dichloroethene     | 4.20 | 96  | 4440   | 0.247 ug/L   | 88     |

Data File : VU033805.D  
Acq On : 15 Aug 2019 12:14  
Operator : JC/SP  
Sample : MDL04  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

Manual Integrations  
APPROVED

MMDadoda  
8/16/2019 12:45:15 PM

Quant Time: Aug 16 01:23:41 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMUTR081419WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Aug 16 01:09:16 2019  
Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane        | 4.53  | 128  | 2010     | 0.233 | ug/L   | 92       |
| 25) Chloroform                | 4.65  | 83   | 12603    | 0.355 | ug/L   | 95       |
| 27) 1,2-Dichloroethane        | 5.39  | 62   | 5273     | 0.241 | ug/L   | 96       |
| 29) 1,1,1-Trichloroethane     | 4.89  | 97   | 6653     | 0.233 | ug/L   | 95       |
| 30) Cyclohexane               | 4.96  | 56   | 4685     | 0.181 | ug/L   | 87       |
| 31) Carbon tetrachloride      | 5.11  | 117  | 6004     | 0.237 | ug/L   | 97       |
| 33) Benzene                   | 5.37  | 78   | 16079    | 0.229 | ug/L   | 100      |
| 34) Trichloroethene           | 6.17  | 95   | 4398     | 0.239 | ug/L   | 90       |
| 35) Methylcyclohexane         | 6.40  | 83   | 5814     | 0.211 | ug/L   | 95       |
| 37) 1,2-Dichloropropane       | 6.41  | 63   | 4359     | 0.230 | ug/L # | 93       |
| 38) Bromodichloromethane      | 6.74  | 83   | 6055     | 0.253 | ug/L # | 95       |
| 39) cis-1,3-Dichloropropene   | 7.25  | 75   | 5876     | 0.230 | ug/L   | 93       |
| 40) 4-Methyl-2-pentanone      | 7.45  | 43   | 21142    | 1.931 | ug/L # | 90       |
| 42) Toluene                   | 7.62  | 91   | 16365    | 0.222 | ug/L   | 94       |
| 44) trans-1,3-Dichloropropene | 7.87  | 75   | 4686     | 0.219 | ug/L   | 92       |
| 45) 1,1,2-Trichloroethane     | 8.05  | 97   | 3271     | 0.242 | ug/L   | 90       |
| 47) Tetrachloroethene         | 8.21  | 164  | 3474     | 0.227 | ug/L   | 96       |
| 48) 2-Hexanone                | 8.35  | 43   | 25571    | 3.230 | ug/L   | 93       |
| 49) Dibromochloromethane      | 8.46  | 129  | 3710     | 0.226 | ug/L   | 95       |
| 50) 1,2-Dibromoethane         | 8.57  | 107  | 2713     | 0.207 | ug/L # | 92       |
| 51) Chlorobenzene             | 9.10  | 112  | 11663    | 0.246 | ug/L   | 97       |
| 52) Ethylbenzene              | 9.23  | 91   | 15242    | 0.200 | ug/L   | 98       |
| 53) m,p-Xylene                | 9.36  | 106  | 5560     | 0.193 | ug/L   | 99       |
| 54) o-Xylene                  | 9.76  | 106  | 5202     | 0.191 | ug/L   | 99       |
| 55) Styrene                   | 9.78  | 104  | 7432     | 0.157 | ug/L   | 90       |
| 57) 1,1,2,2-Tetrachloroethane | 10.44 | 83   | 4063     | 0.229 | ug/L # | 95       |
| 59) Isopropylbenzene          | 10.15 | 105  | 12683    | 0.207 | ug/L   | 97       |
| 60) Bromoform                 | 9.94  | 173  | 2009     | 0.244 | ug/L # | 97       |
| 61) 1,2,3-Trichloropropane    | 10.48 | 75   | 3079     | 0.288 | ug/L   | 97       |
| 62) 1,3,5-Trimethylbenzene    | 10.76 | 105  | 9504     | 0.191 | ug/L   | 98       |
| 63) 1,2,4-Trimethylbenzene    | 11.13 | 105  | 9112     | 0.183 | ug/L   | 96       |
| 64) 1,3-Dichlorobenzene       | 11.40 | 146  | 8275     | 0.252 | ug/L   | 97       |
| 65) 1,4-Dichlorobenzene       | 11.49 | 146  | 8886     | 0.263 | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene       | 11.86 | 146  | 8281     | 0.261 | ug/L   | 97       |
| 69) 1,3,5-Trichlorobenzene    | 12.88 | 180  | 6613m    | 0.256 | ug/L   |          |
| 70) 1,2,4-trichlorobenzene    | 13.50 | 180  | 3925m    | 0.195 | ug/L   |          |
| 71) Naphthalene               | 13.74 | 128  | 5945m    | 0.192 | ug/L   |          |
| 72) 1,2,3-Trichlorobenzene    | 13.98 | 180  | 4073m    | 0.215 | ug/L   |          |

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

Data File : VU033805.D  
Acq On : 15 Aug 2019 12:14  
Operator : JC/SP  
Sample : MDL04  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL04

Manual Integrations  
APPROVED

MMDadoda  
8/16/2019 12:45:15 PM

Quant Time: Aug 16 01:23:41 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SFAMUTR081419WMA.M  
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QLast Update : Fri Aug 16 01:09:16 2019  
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