

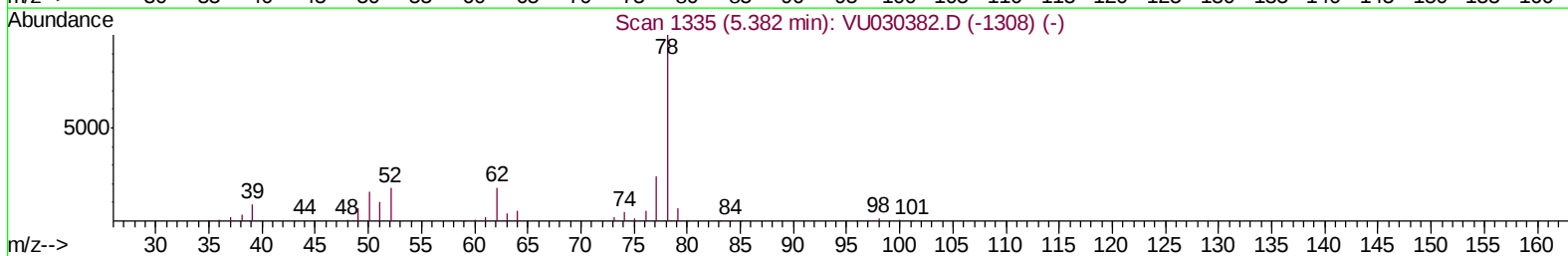
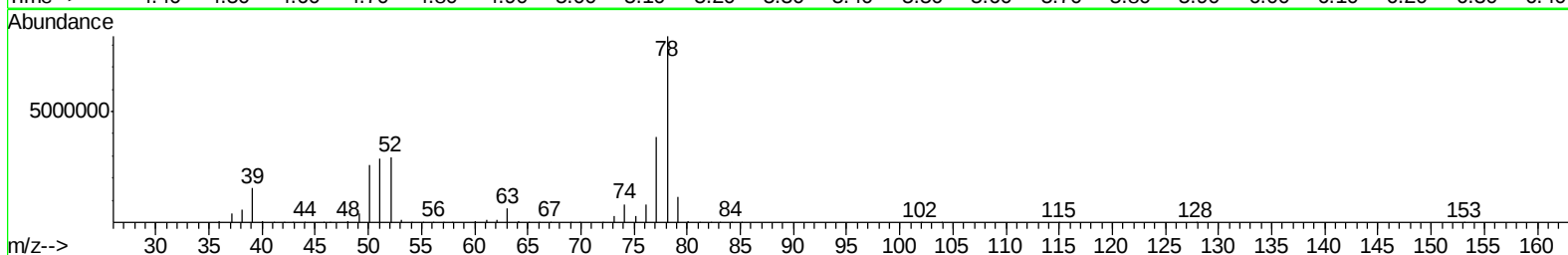
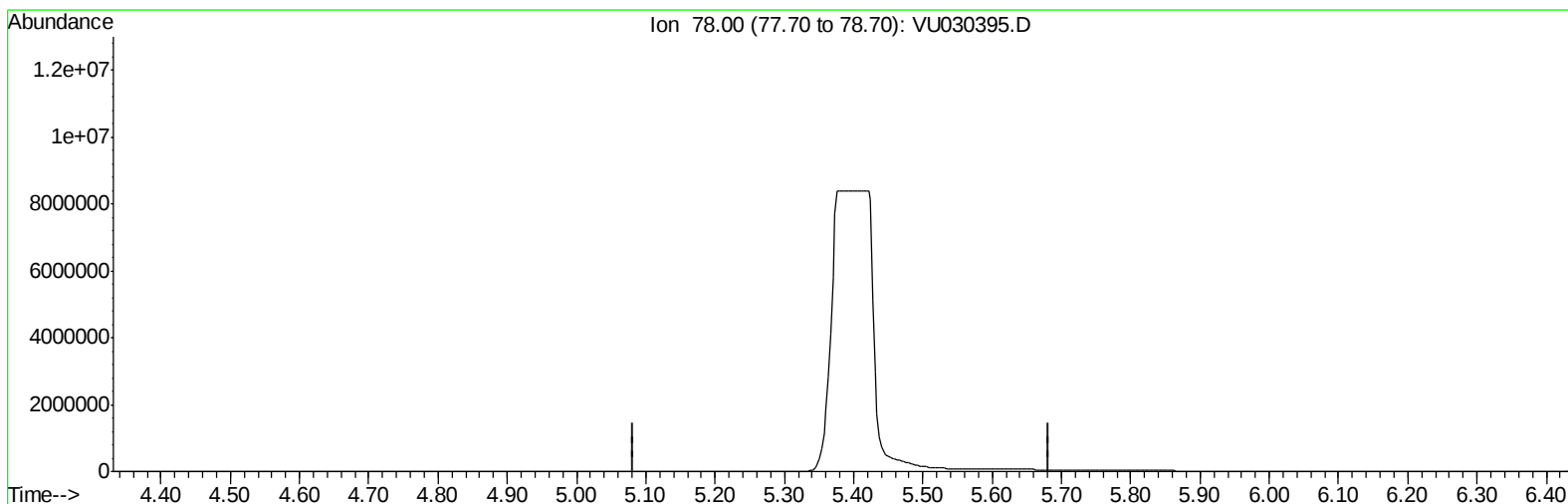
Data File : VU030395.D  
Acq On : 25 Mar 2019 03:37  
Operator : JC/SP  
Sample : K2070-10  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C09D4

Manual Integrations  
APPROVED

MMDadoda  
3/25/2019 1:08:31 PM

Quant Time: Mar 25 07:09:02 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Mar 25 05:48:44 2019  
Response via : Initial Calibration



TIC: VU030395.D

(33) Benzene (T)

5.382min (-5.382) 0.00ug/L

response 0

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

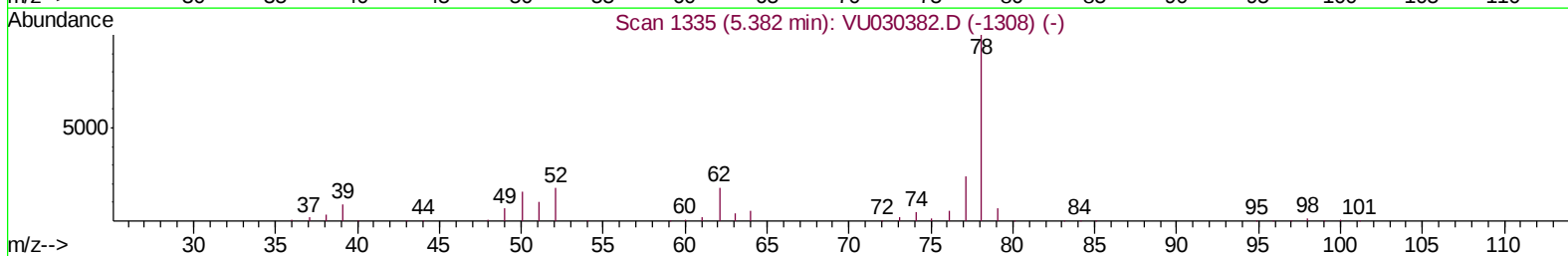
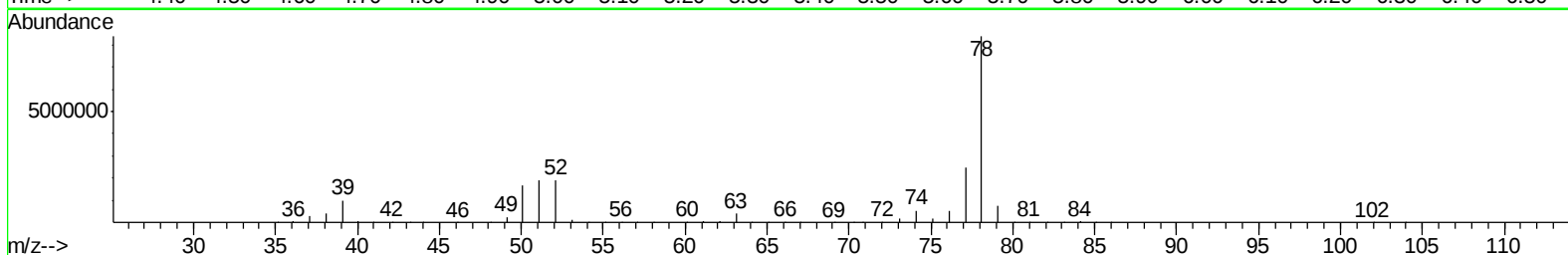
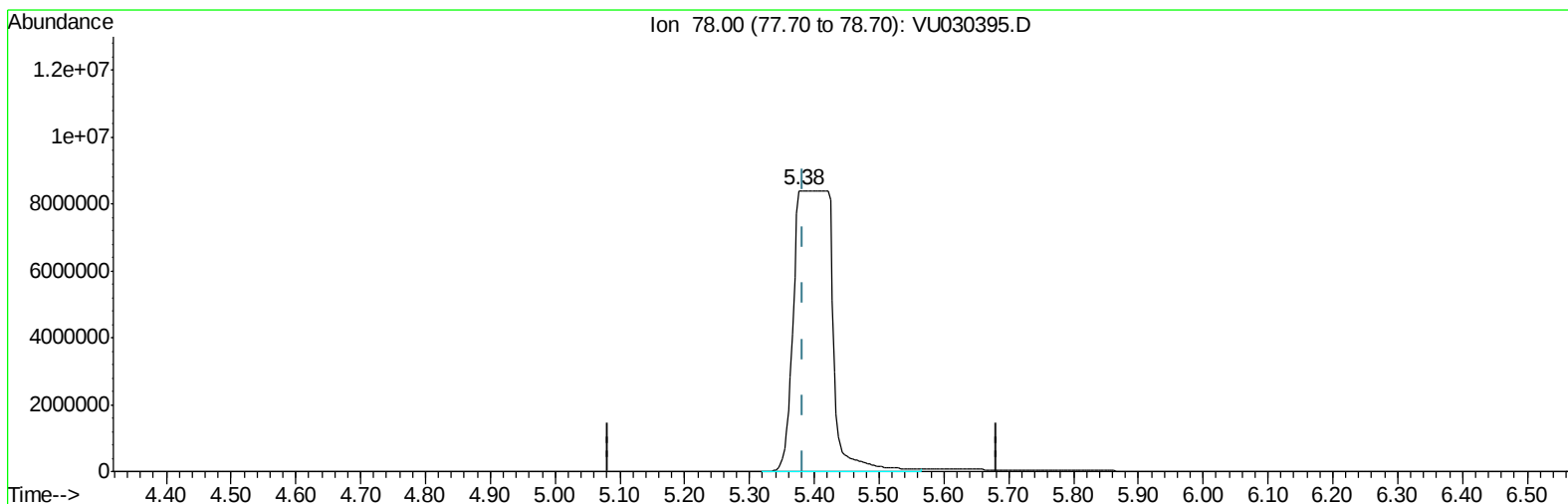
Data File : VU030395.D  
Acq On : 25 Mar 2019 03:37  
Operator : JC/SP  
Sample : K2070-10  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
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Manual Integrations  
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Quant Title : VOC Analysis  
QLast Update : Mon Mar 25 05:48:44 2019  
Response via : Initial Calibration



TIC: VU030395.D

(33) Benzene (T)

5.376min (-0.006) 2285.10ug/L m

response 34358237

| 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 |

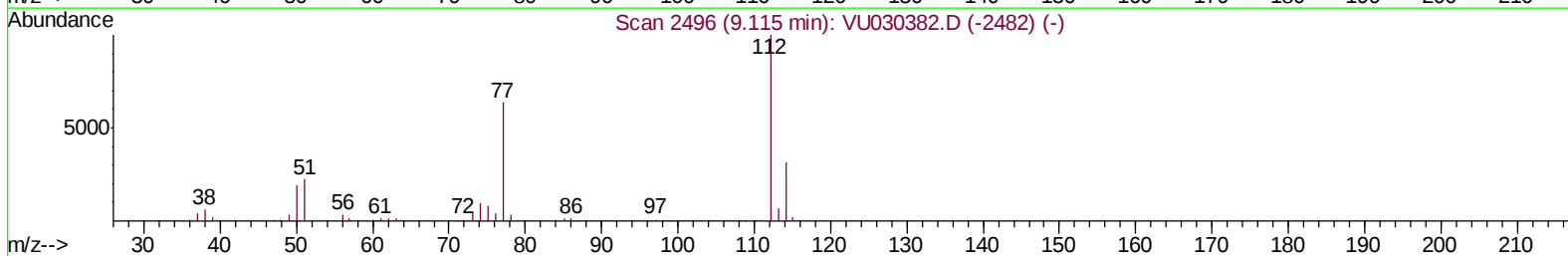
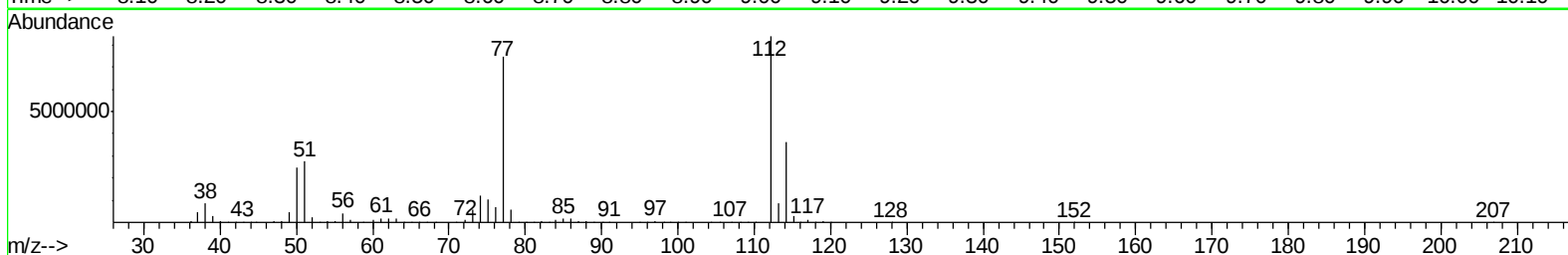
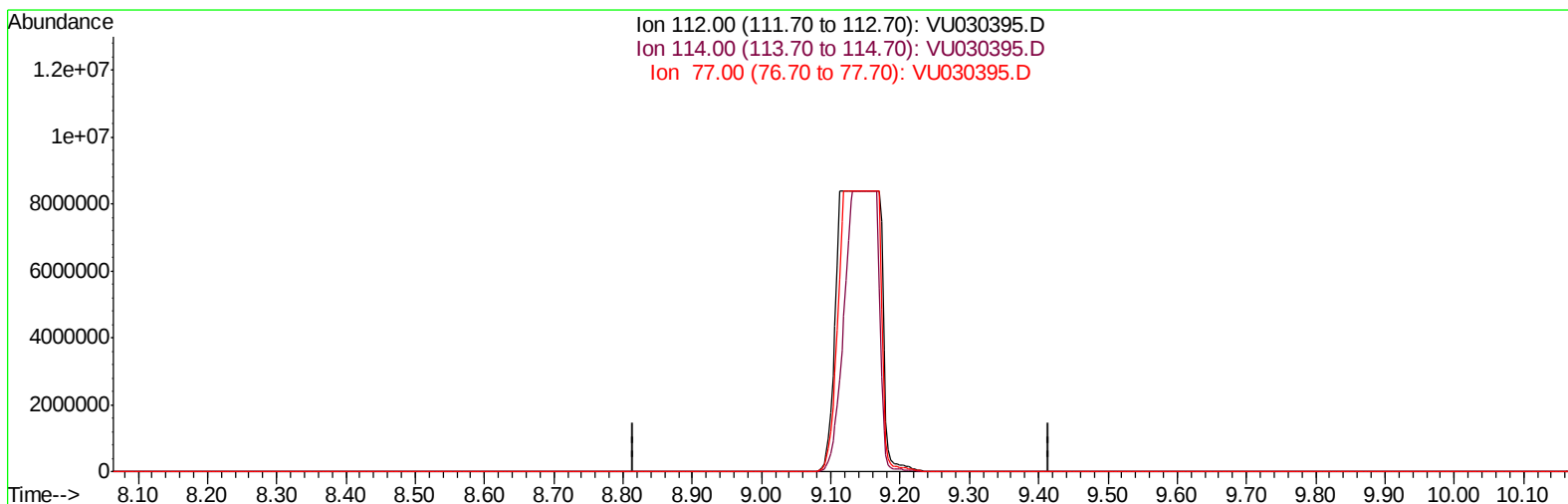
Data File : VU030395.D  
Acq On : 25 Mar 2019 03:37  
Operator : JC/SP  
Sample : K2070-10  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
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Manual Integrations  
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Response via : Initial Calibration



TIC: VU030395.D

(51) Chlorobenzene (T)

9.115min (-9.115) 0.00ug/L

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 112.00 | 100   | 0.00  |
| 114.00 | 30.70 | 0.00# |
| 77.00  | 64.20 | 0.00# |
| 0.00   | 0.00  | 0.00  |

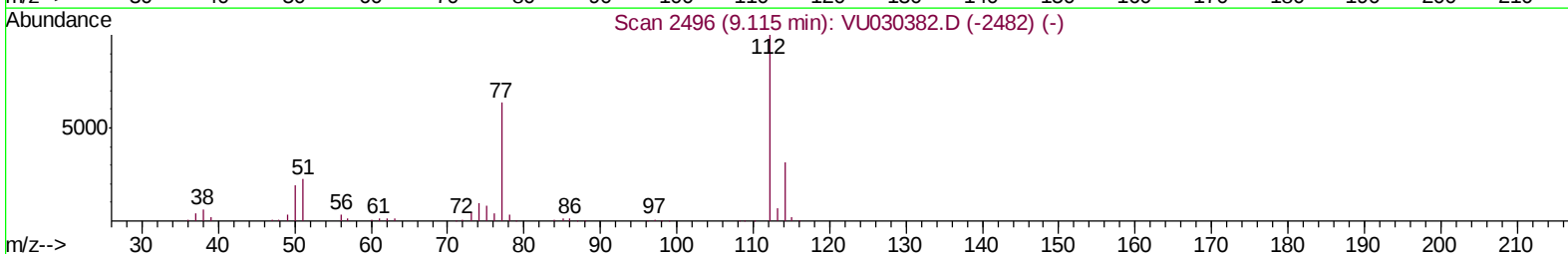
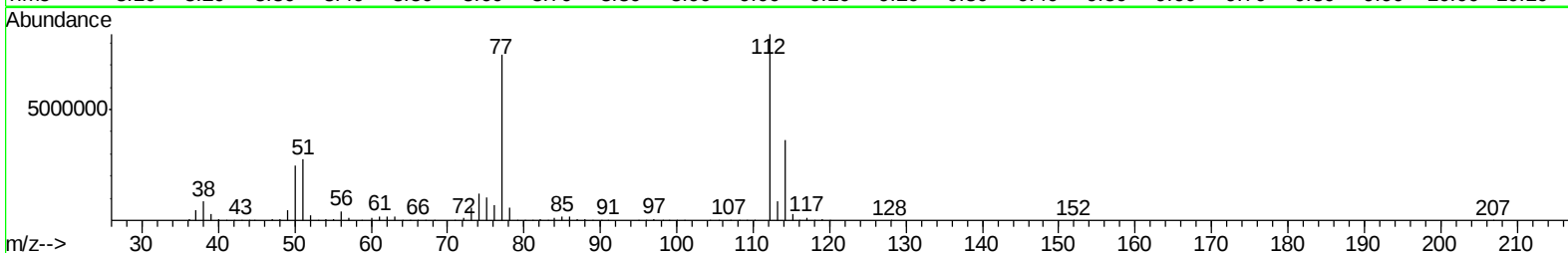
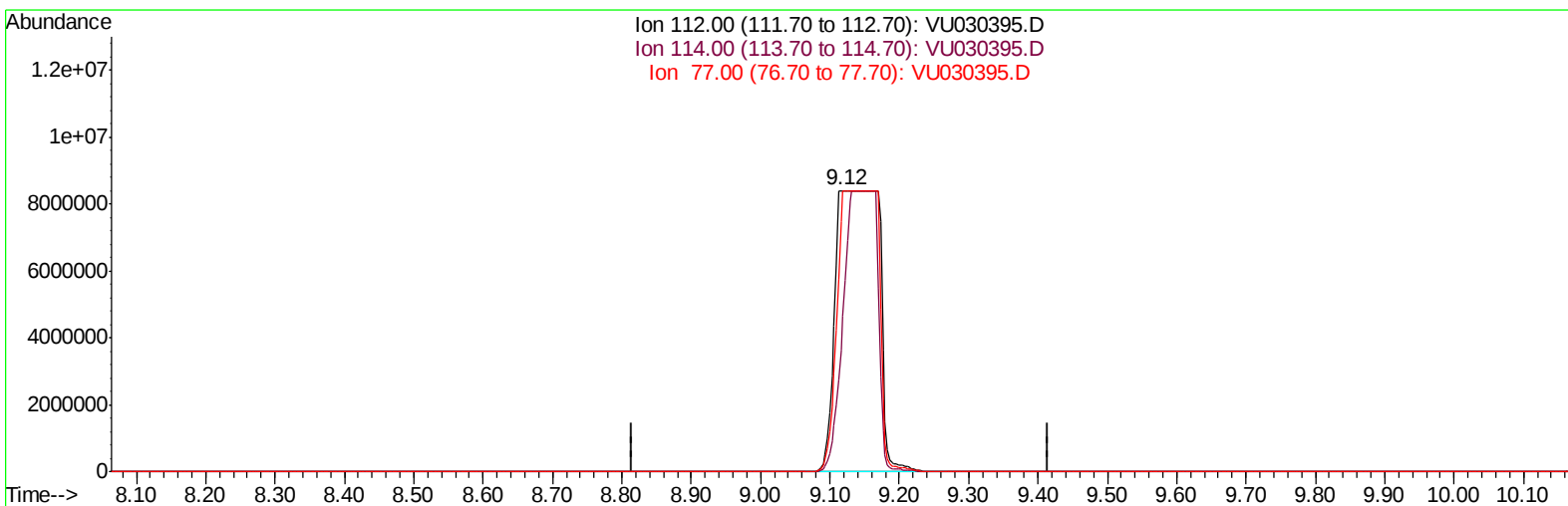
Data File : VU030395.D  
Acq On : 25 Mar 2019 03:37  
Operator : JC/SP  
Sample : K2070-10  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C09D4

Manual Integrations  
APPROVED

MMDadoda  
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Quant Time: Mar 25 07:09:02 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
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Response via : Initial Calibration



TIC: VU030395.D

(51) Chlorobenzene (T)

9.116min (+0.000) 3919.15ug/L m

response 37064674

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 112.00 | 100   | 100    |
| 114.00 | 30.70 | 43.36# |
| 77.00  | 64.20 | 89.08# |
| 0.00   | 0.00  | 0.00   |

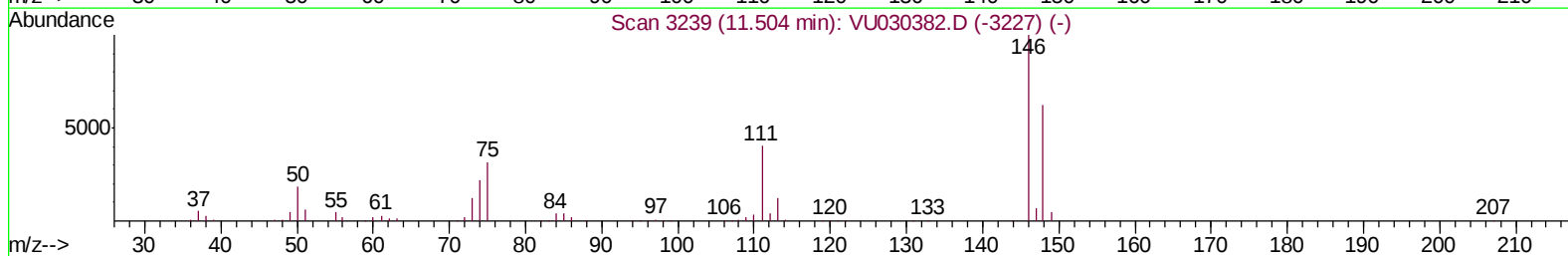
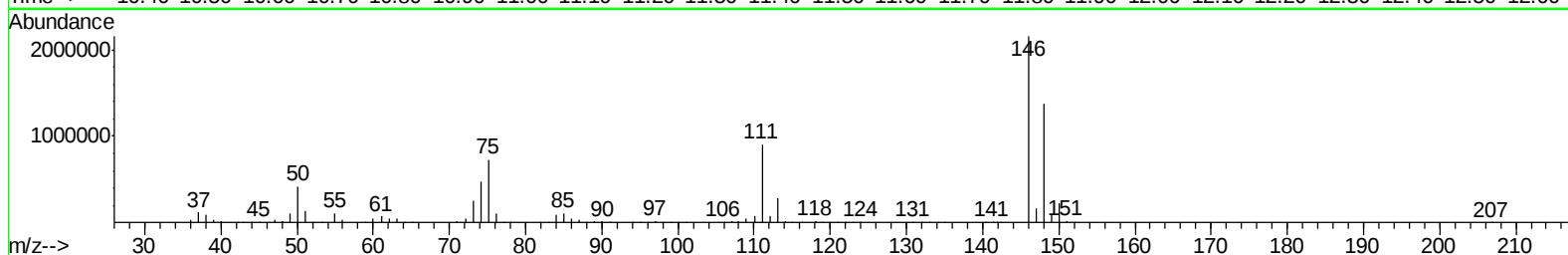
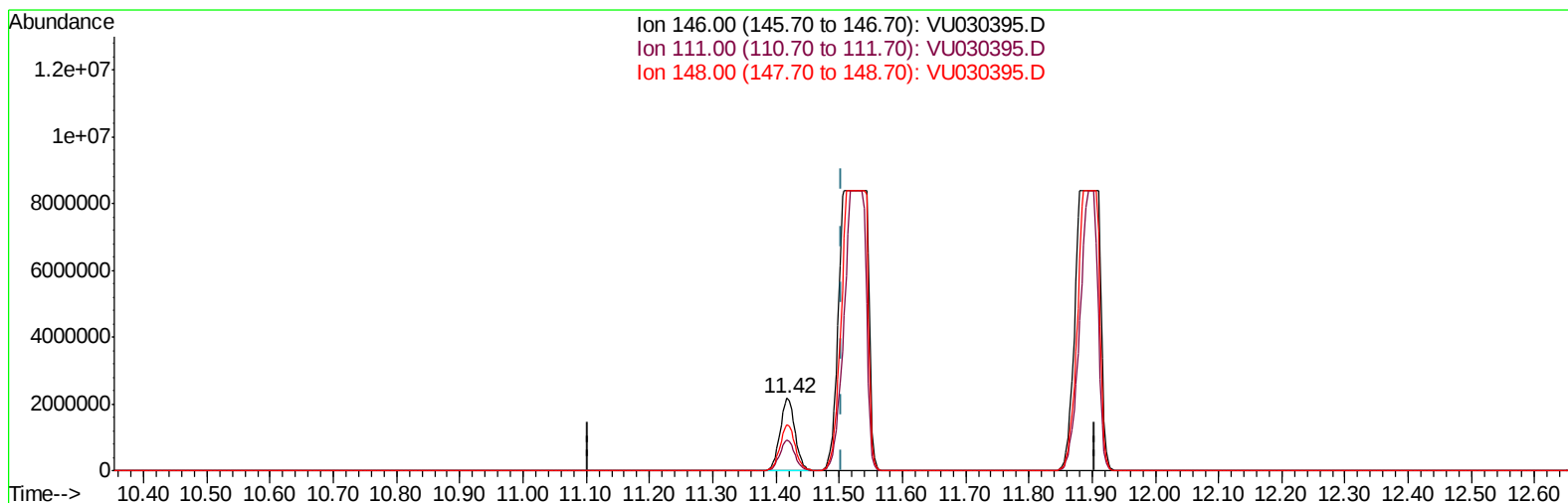
Data File : VU030395.D  
Acq On : 25 Mar 2019 03:37  
Operator : JC/SP  
Sample : K2070-10  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
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Manual Integrations  
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TIC: VU030395.D

(63) 1,4-Dichlorobenzene (T)

11.418min (-0.087) 440.46ug/L

response 3515017

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 146.00 | 100   | 100   |
| 111.00 | 41.00 | 42.13 |
| 148.00 | 63.30 | 63.89 |
| 0.00   | 0.00  | 0.00  |

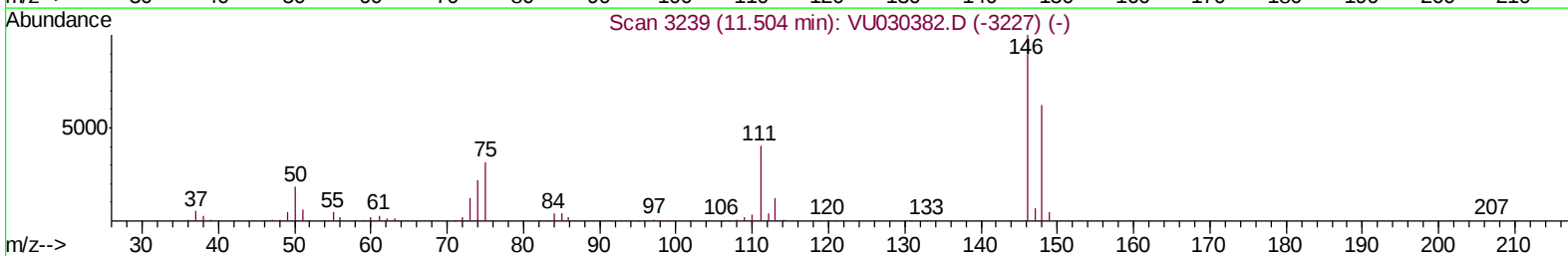
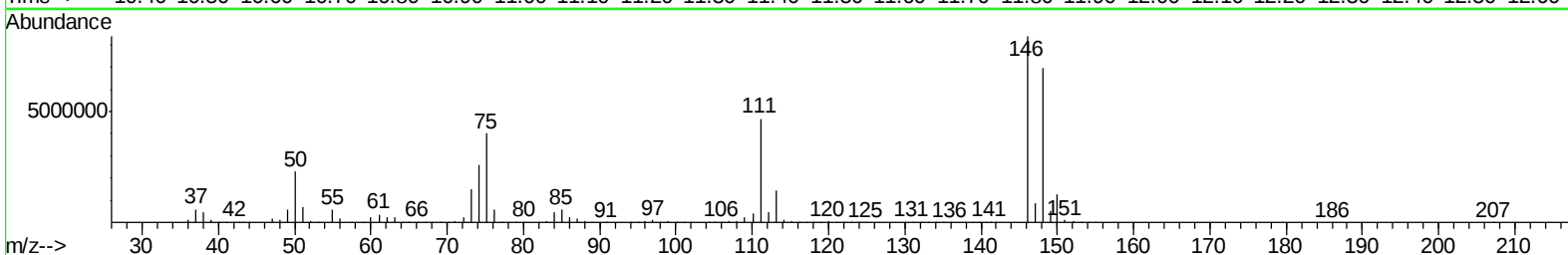
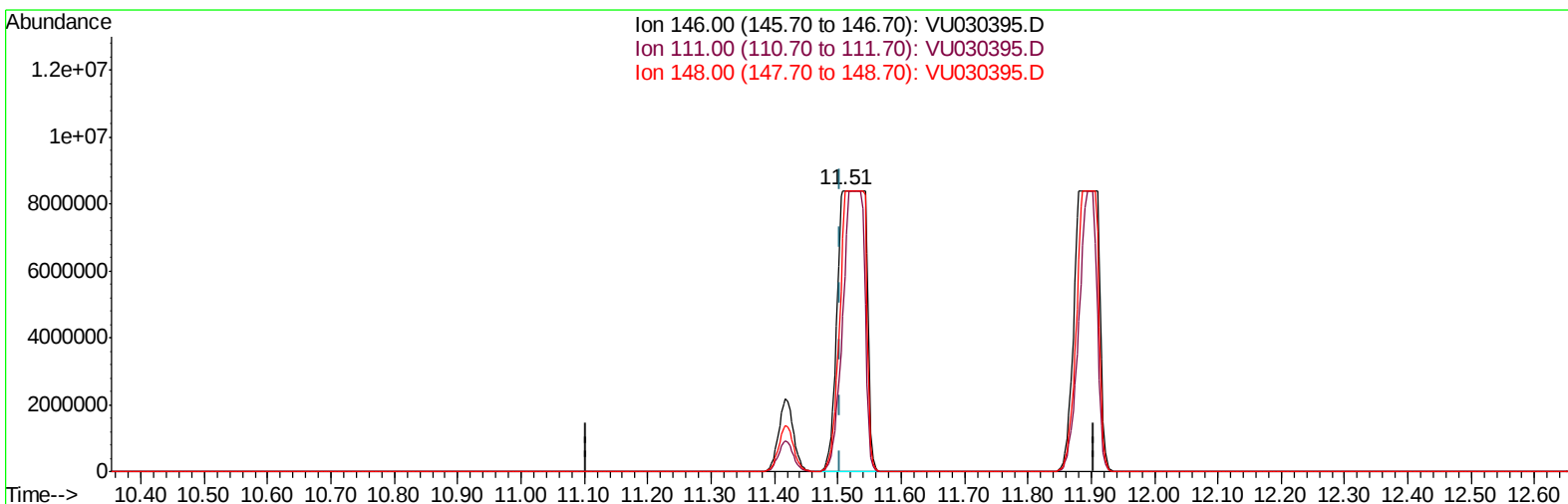
Data File : VU030395.D  
Acq On : 25 Mar 2019 03:37  
Operator : JC/SP  
Sample : K2070-10  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C09D4

Manual Integrations  
APPROVED

MMDadoda  
3/25/2019 1:08:31 PM

Quant Time: Mar 25 07:09:02 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Mar 25 05:48:44 2019  
Response via : Initial Calibration



TIC: VU030395.D

(63) 1,4-Dichlorobenzene (T)

11.508min (+0.003) 3324.93ug/L m

response 26533908

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 146.00 | 100   | 100    |
| 111.00 | 41.00 | 55.60# |
| 148.00 | 63.30 | 83.20# |
| 0.00   | 0.00  | 0.00   |

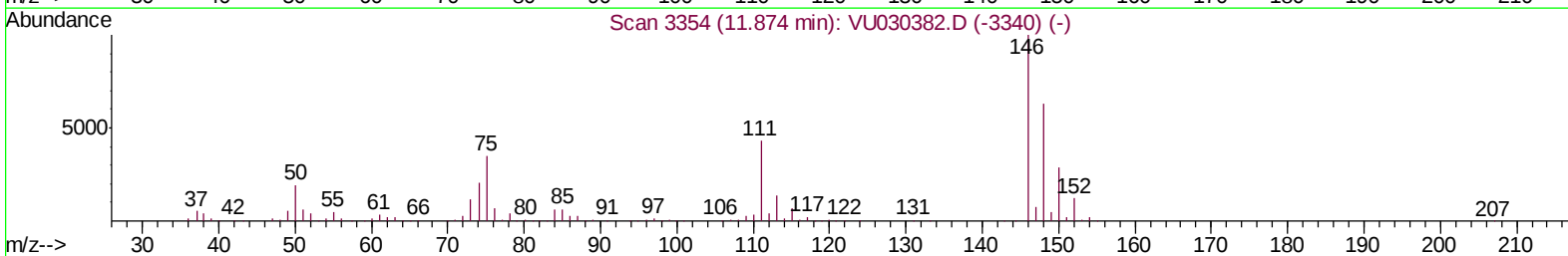
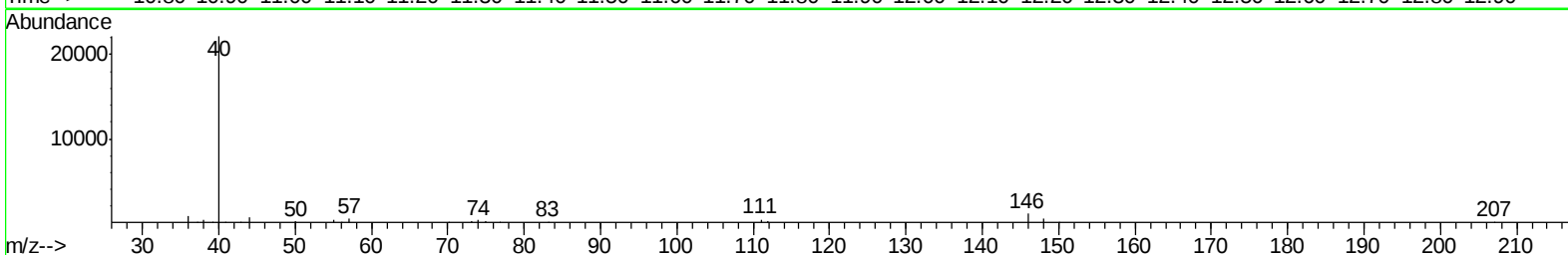
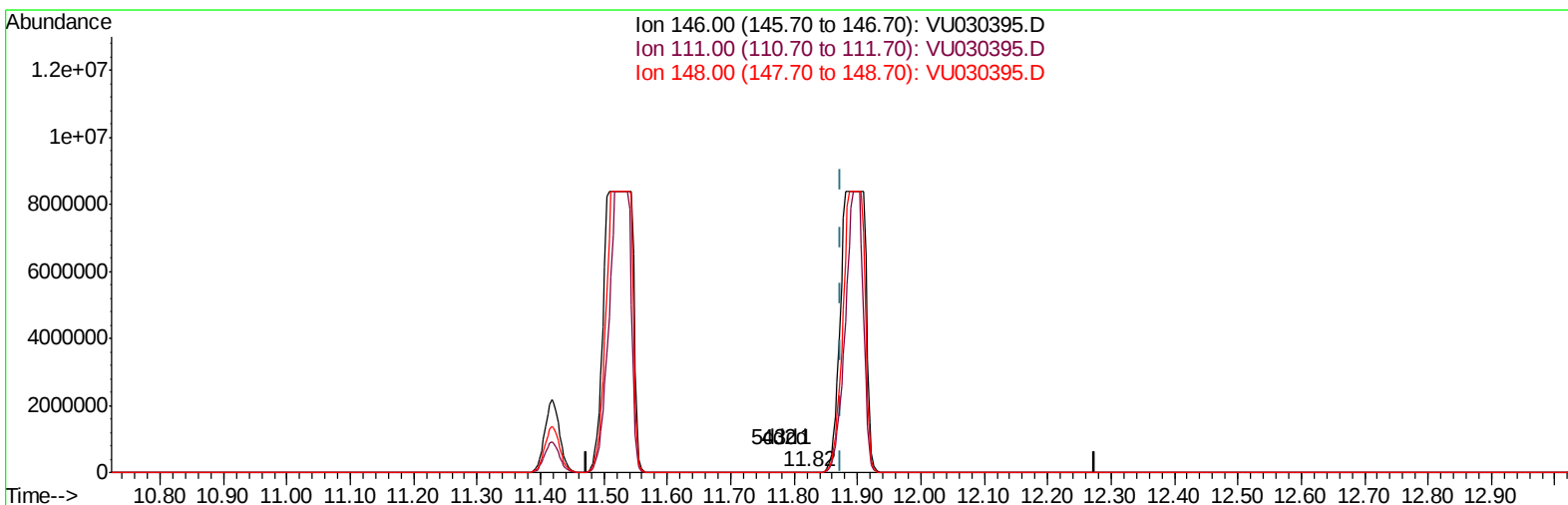
Data File : VU030395.D  
Acq On : 25 Mar 2019 03:37  
Operator : JC/SP  
Sample : K2070-10  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C09D4

Manual Integrations  
APPROVED

MMDadoda  
3/25/2019 1:08:31 PM

Quant Time: Mar 25 07:09:02 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Mar 25 05:48:44 2019  
Response via : Initial Calibration



TIC: VU030395.D

(65) 1,2-Dichlorobenzene (T)

11.820min (-0.055) 0.01ug/L

response 113

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 146.00 | 100   | 100   |
| 111.00 | 43.60 | 39.27 |
| 148.00 | 64.00 | 56.80 |
| 0.00   | 0.00  | 0.00  |

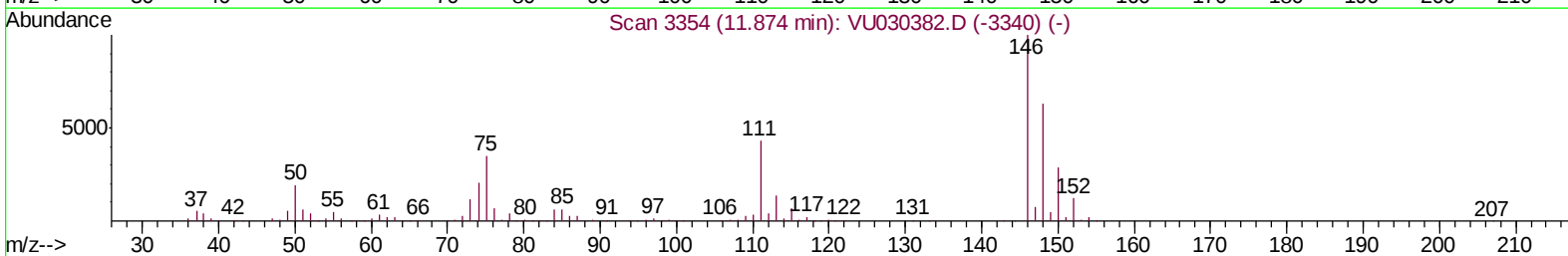
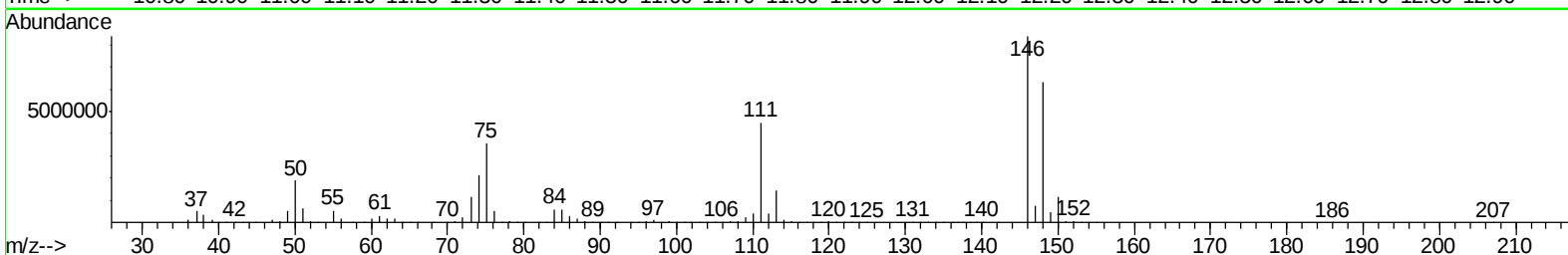
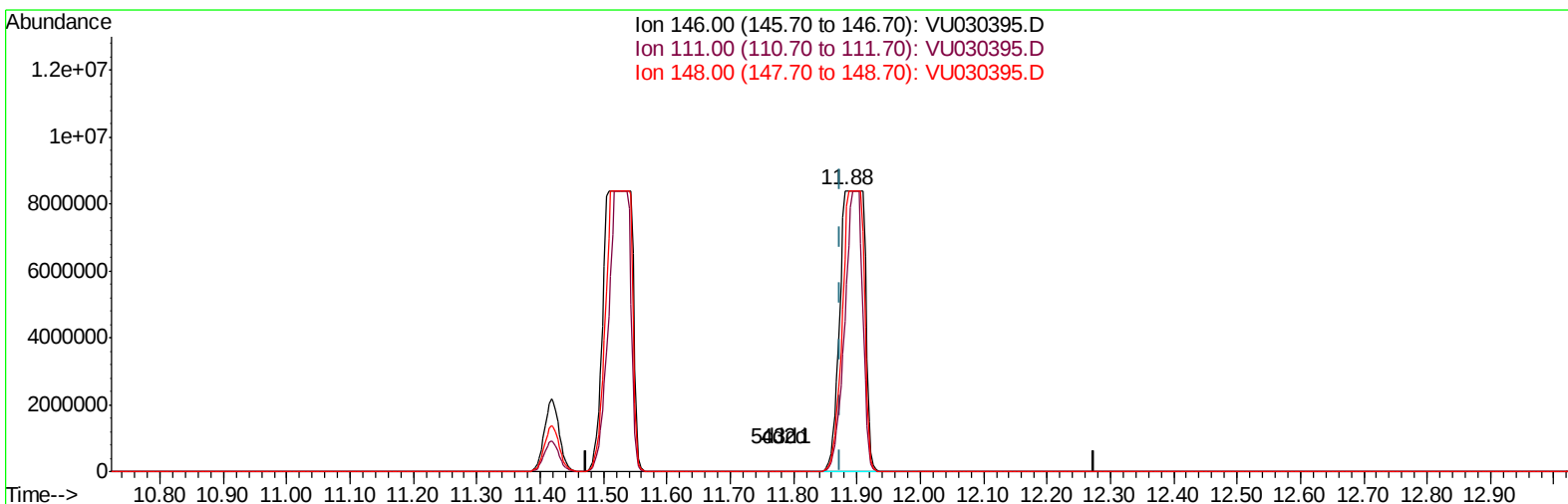
Data File : VU030395.D  
Acq On : 25 Mar 2019 03:37  
Operator : JC/SP  
Sample : K2070-10  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C09D4

Manual Integrations  
APPROVED

MMDadoda  
3/25/2019 1:08:31 PM

Quant Time: Mar 25 07:09:02 2019  
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Quant Title : VOC Analysis  
QLast Update : Mon Mar 25 05:48:44 2019  
Response via : Initial Calibration



TIC: VU030395.D

(65) 1,2-Dichlorobenzene (T)

11.881min (+0.007) 2945.06ug/L m

response 23084277

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 146.00 | 100   | 100    |
| 111.00 | 43.60 | 53.64# |
| 148.00 | 64.00 | 75.24  |
| 0.00   | 0.00  | 0.00   |

Data File : VU030395.D  
Acq On : 25 Mar 2019 03:37  
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Sample : K2070-10  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C09D4

Manual Integrations  
APPROVED

MMDadoda  
3/25/2019 1:08:31 PM

Quant Time: Mar 25 07:12:40 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Mar 25 05:48:44 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 437407   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.10  | 117  | 441695   | 50.00 | ug/L  | 0.02     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 237039   | 50.00 | ug/L  | 0.02     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40    | 65    | 118436   | 33.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 67.30%  |
| 7) Chloroethane-d5             | 1.68    | 69    | 103805   | 37.20    | ug/L | 0.03    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 74.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 199845   | 29.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 59.86%# |
| 21) 2-Butanone-d5              | 4.17    | 46    | 304260   | 91.95    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 91.95%  |
| 24) Chloroform-d               | 4.64    | 84    | 271755   | 44.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.62%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 183907   | 46.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 92.68%  |
| 32) Benzene-d6                 | 5.34    | 84    | 560243   | 44.23    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 88.46%  |
| 36) 1,2-Dichloropropane-d6     | 6.33    | 67    | 197389   | 45.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 91.10%  |
| 41) Toluene-d8                 | 7.56    | 98    | 504631   | 44.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 88.72%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 83428    | 40.94    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 81.88%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 209472   | 89.20    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 89.20%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 275921   | 44.49    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 88.98%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.87   | 152   | 220756   | 46.48    | ug/L | 0.02    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 92.96%  |

#### Target Compounds

|                             |       |     |           |          |        | Qvalue |
|-----------------------------|-------|-----|-----------|----------|--------|--------|
| 9) Trichlorofluoromethane   | 1.88  | 101 | 4703      | 0.843    | ug/L   | 99     |
| 13) Acetone                 | 2.32  | 43  | 12669     | 3.786    | ug/L   | 95     |
| 18) Methyl tert-butyl Ether | 3.00  | 73  | 5373      | 0.495    | ug/L # | 58     |
| 25) Chloroform              | 4.67  | 83  | 19441     | 3.036    | ug/L   | 92     |
| 29) Cyclohexane             | 4.99  | 56  | 23238     | 3.477    | ug/L   | 99     |
| 31) Carbon tetrachloride    | 5.13  | 117 | 113103    | 24.673   | ug/L   | 97     |
| 33) Benzene                 | 5.38  | 78  | 34358237m | 2285.103 | ug/L   |        |
| 34) Trichloroethene         | 6.19  | 95  | 4279      | 1.158    | ug/L   | 94     |
| 35) Methylcyclohexane       | 6.41  | 83  | 9957      | 1.637    | ug/L # | 82     |
| 42) Toluene                 | 7.64  | 91  | 14234     | 0.912    | ug/L   | 100    |
| 46) Tetrachloroethene       | 8.23  | 164 | 10207     | 3.954    | ug/L   | 94     |
| 51) Chlorobenzene           | 9.12  | 112 | 37064674m | 3919.145 | ug/L   |        |
| 62) 1,3-Dichlorobenzene     | 11.42 | 146 | 3515017   | 453.444  | ug/L   | 99     |
| 63) 1,4-Dichlorobenzene     | 11.51 | 146 | 26533908m | 3324.929 | ug/L   |        |
| 65) 1,2-Dichlorobenzene     | 11.88 | 146 | 23084277m | 2945.057 | ug/L   |        |
| 68) 1,2,4-trichlorobenzene  | 13.50 | 180 | 5159743   | 1023.300 | ug/L   | 99     |
| 70) 1,2,3-Trichlorobenzene  | 13.98 | 180 | 405145    | 76.092   | ug/L   | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU032419\  
Quantitation Report (QT Reviewed)

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APPROVED

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3/25/2019 1:08:31 PM

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Quant Title : VOC Analysis  
QLast Update : Mon Mar 25 05:48:44 2019  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

|       |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|
| ----- |  |  |  |  |  |  |
| ----- |  |  |  |  |  |  |

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

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