

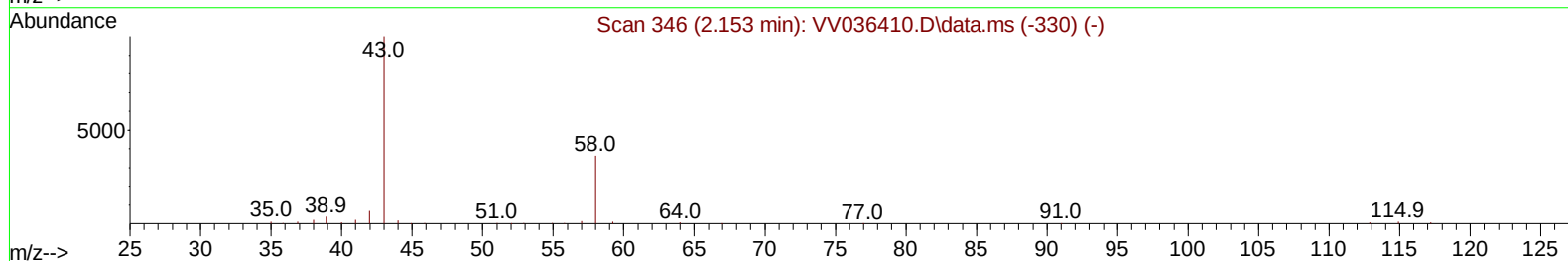
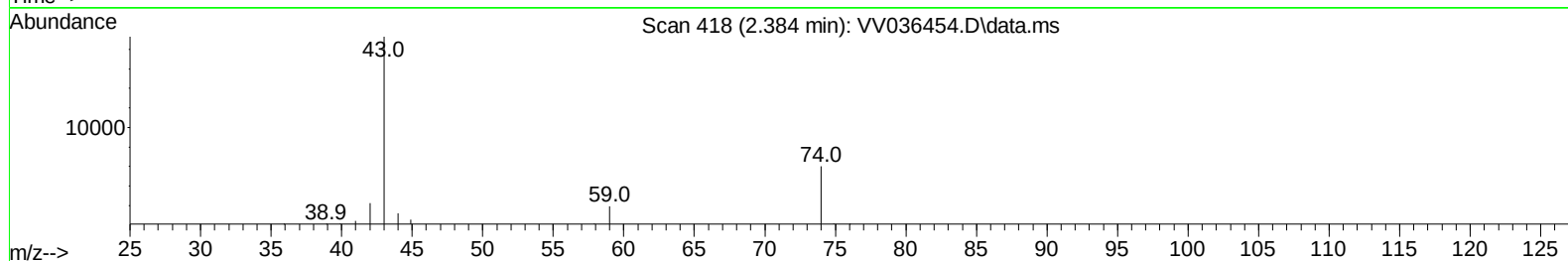
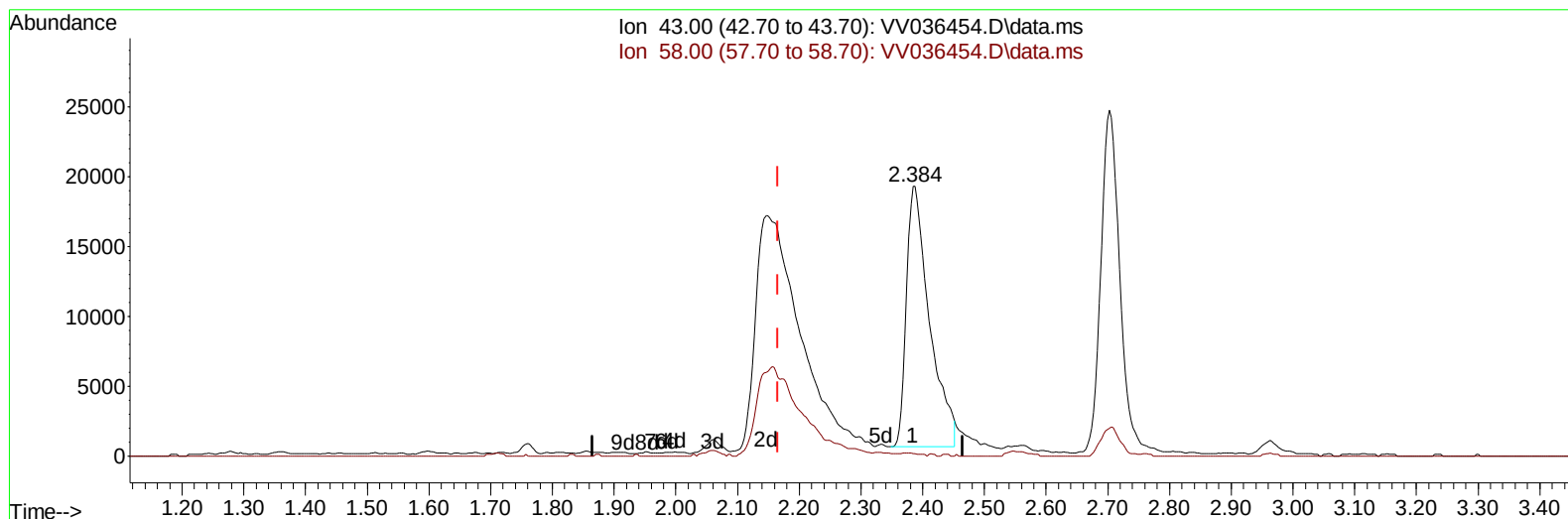
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV070524\  
 Data File : VV036454.D  
 Acq On : 05 Jul 2024 08:17  
 Operator : SY/MD  
 Sample : VSTDCCC025  
 Misc : 5.00g/10.0mL/MSVOA\_V/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 LabSampleId :  
 VSTDCCC025

Manual IntegrationsAPPROVED

Quant Time: Jul 06 01:28:28 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM062724SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Jul 04 02:05:51 2024  
 Response via : Initial Calibration

Reviewed By :Mahesh Dadoda 07/08/2024  
 Supervised By :Semsettin Yesilyurt 07/08/2024



TIC: VV036454.D\data.ms

(13) Acetone (T)

2.384min (+ 0.219) 30.43 ug/L

response 48331

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 43.00 | 100.00 | 100.00 |
| 58.00 | 0.30   | 0.42   |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

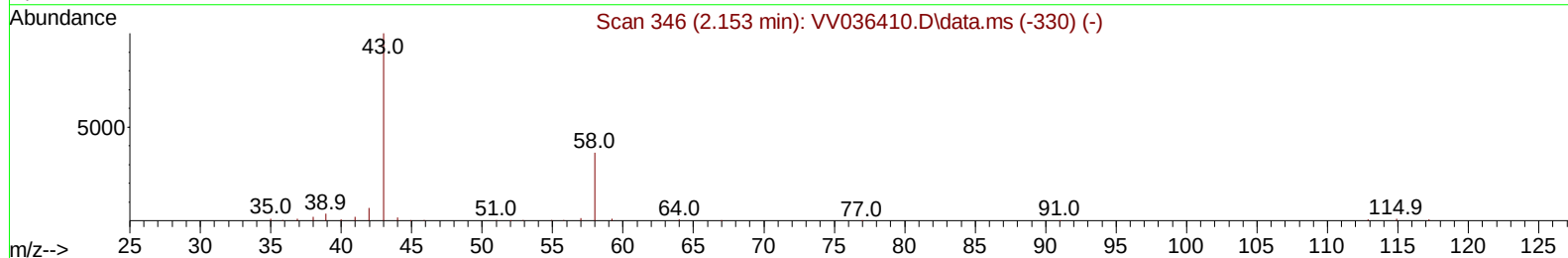
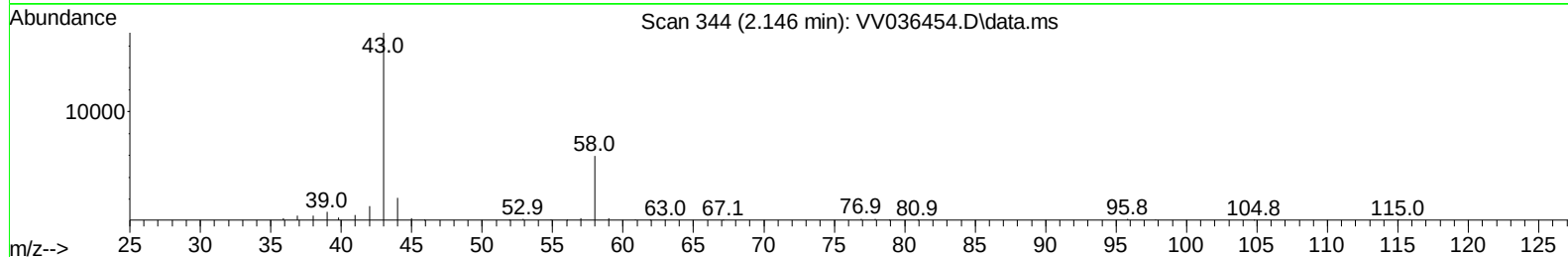
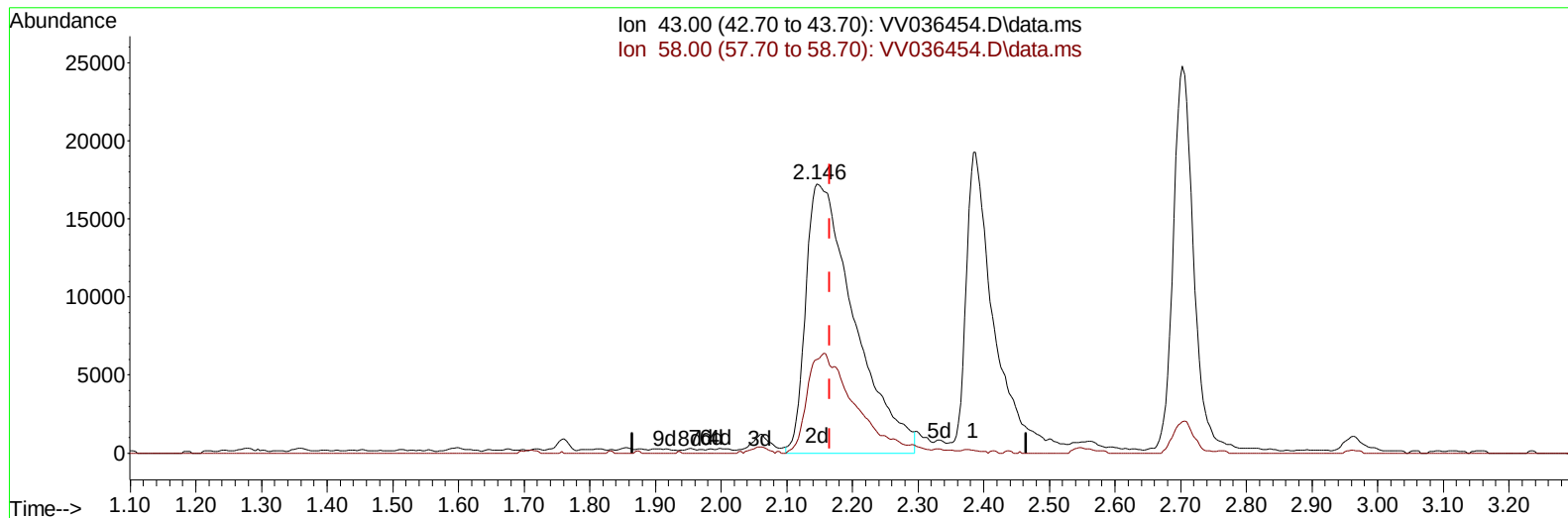
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TIC: VV036454.D\data.ms

(13) Acetone (T)

2.146min (-0.019) 55.83 ug/L m

response 88666

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 43.00 | 100.00 | 100.00 |
| 58.00 | 0.30   | 0.23   |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

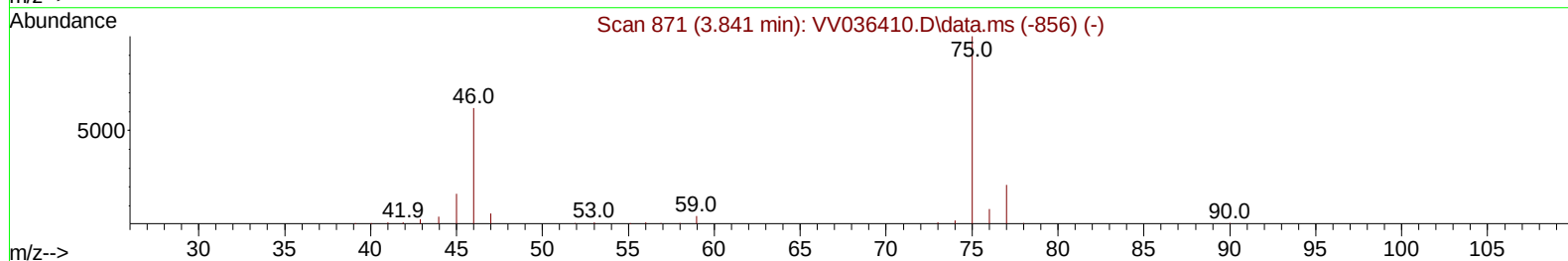
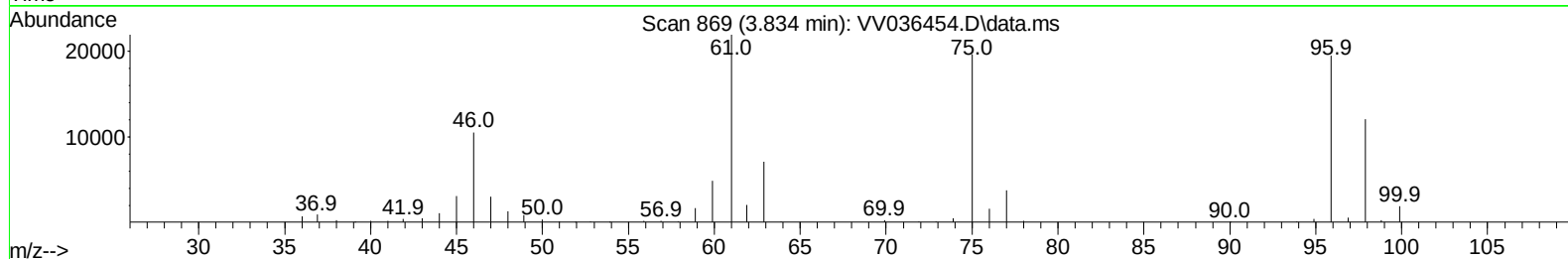
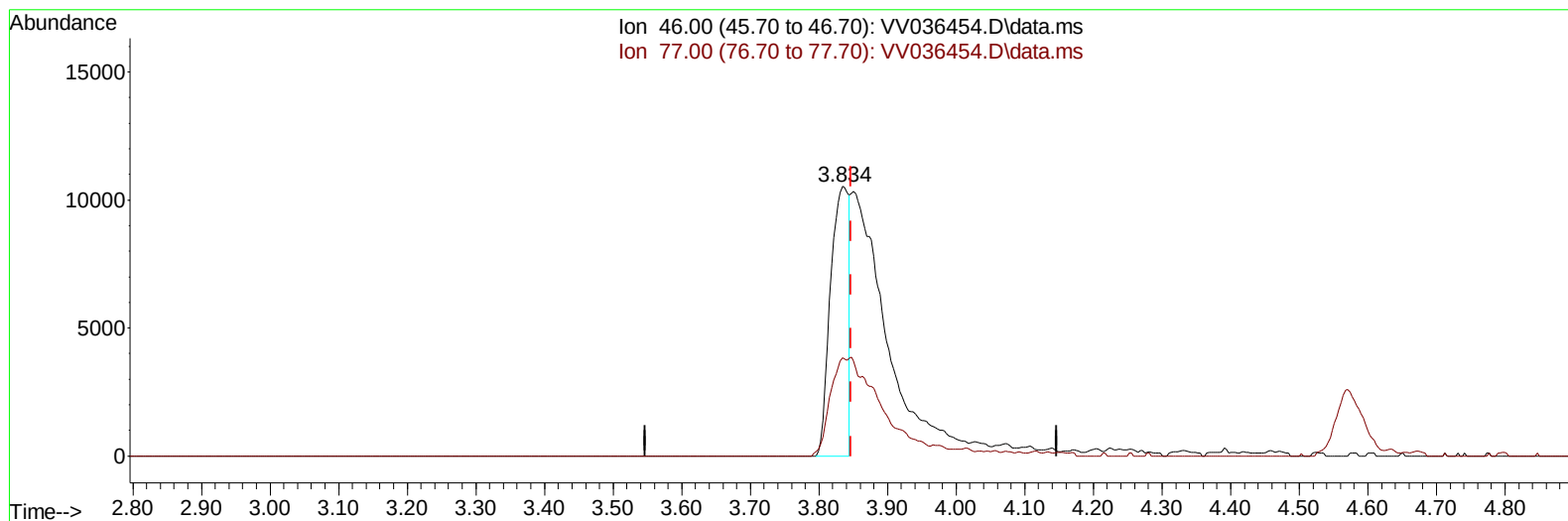
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV070524\  
Data File : VV036454.D  
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VSTDCCC025

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TIC: VV036454.D\data.ms

(21) 2-Butanone-d5 (S)

3.834min (-0.013) 16.78 ug/L

response 19722

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 46.00 | 100.00 | 100.00 |
| 77.00 | 34.00  | 33.55  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

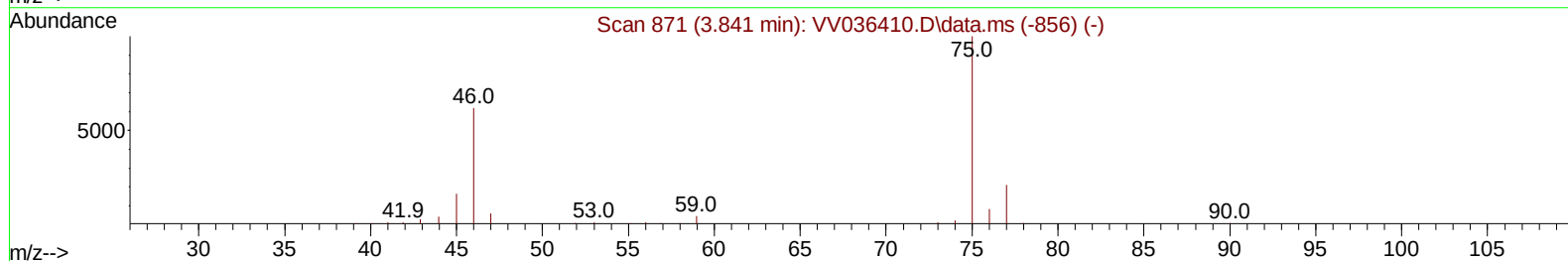
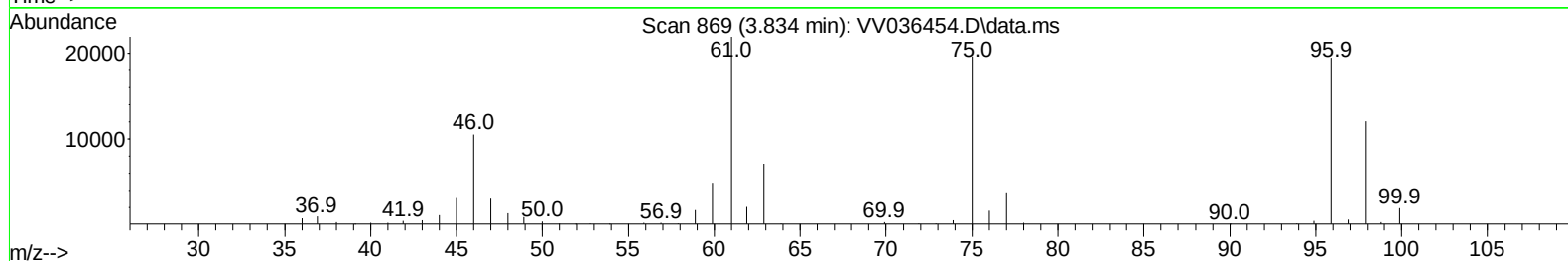
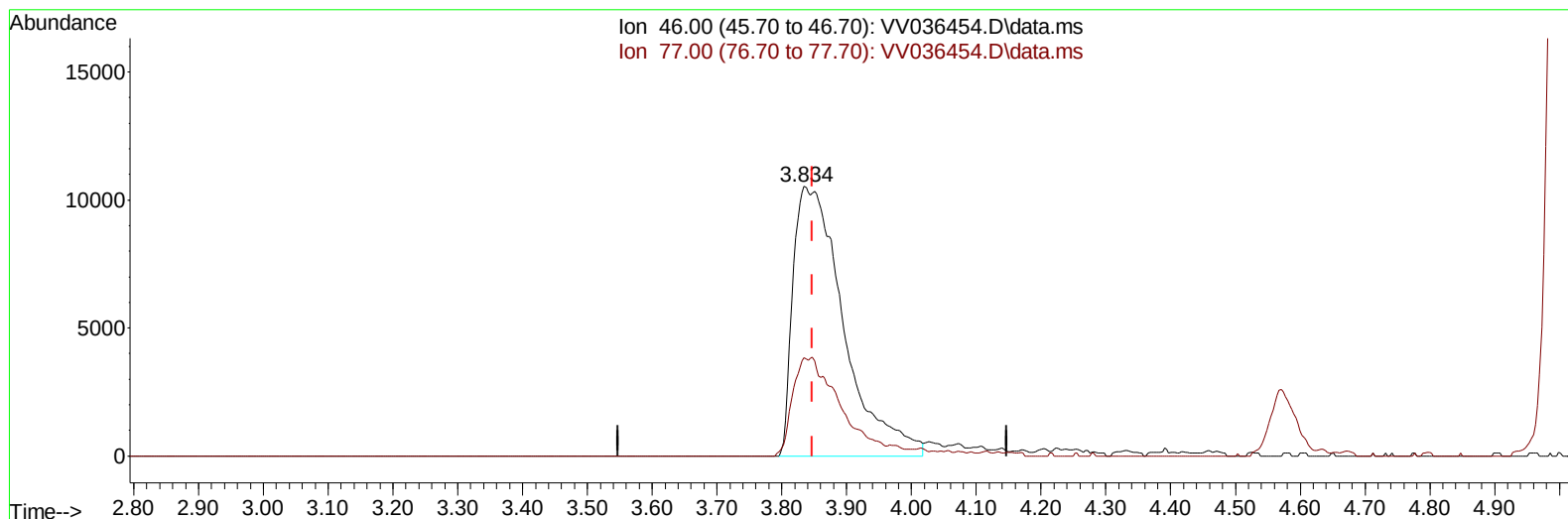
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MSVOA\_V  
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Manual IntegrationsAPPROVED

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TIC: VV036454.D\data.ms

(21) 2-Butanone-d5 (S)

3.834min (-0.013) 48.46 ug/L m

response 56969

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 46.00 | 100.00 | 100.00 |
| 77.00 | 34.00  | 11.62# |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

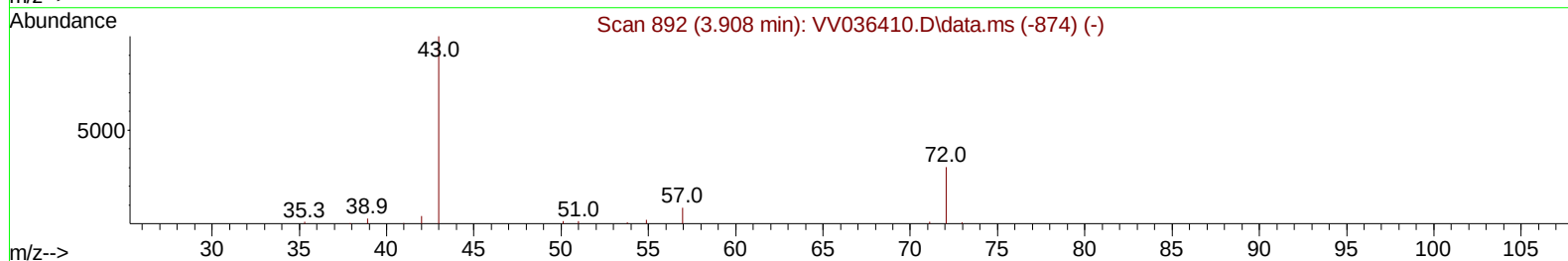
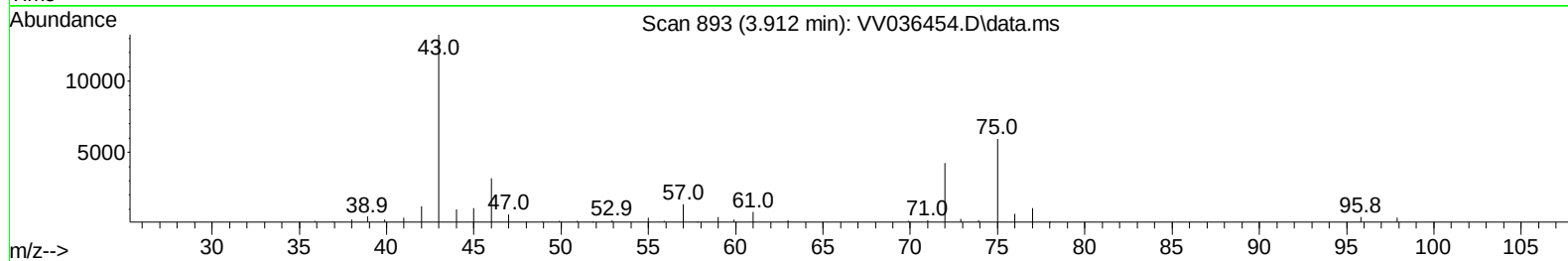
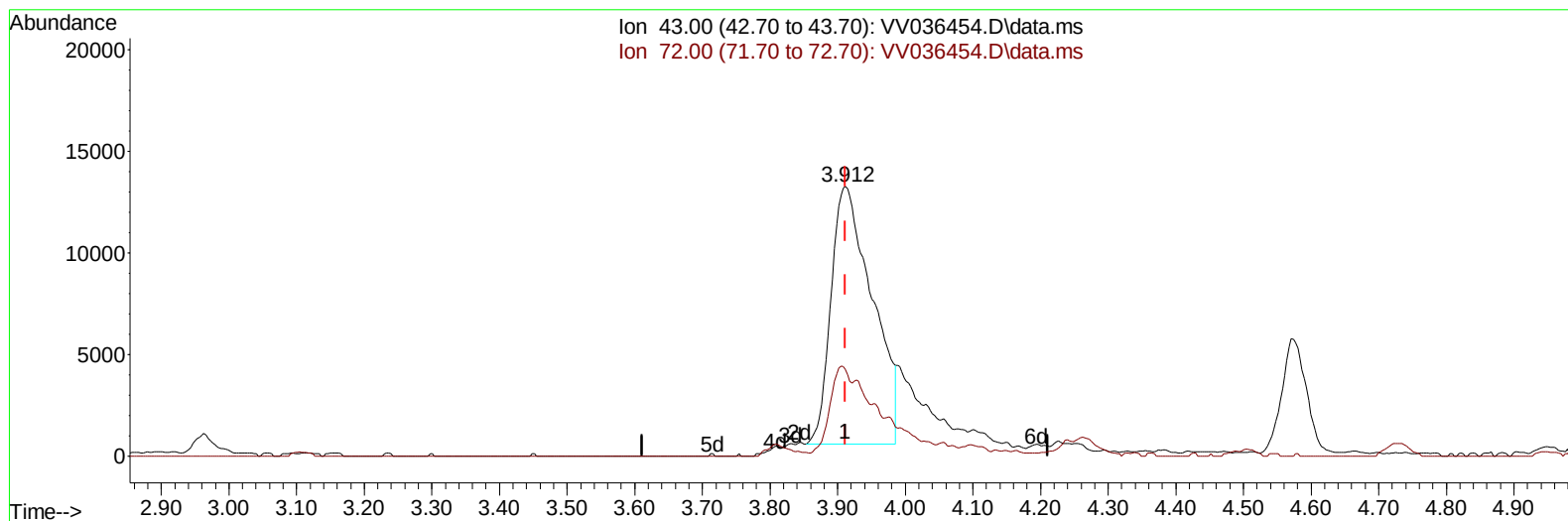
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV070524\  
Data File : VV036454.D  
Acq On : 05 Jul 2024 08:17  
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ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
LabSampleId :  
VSTDCCC025

Manual IntegrationsAPPROVED

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TIC: VV036454.D\data.ms

(22) 2-Butanone (T)

3.912min (+ 0.000) 40.07 ug/L

response 53661

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 43.00 | 100.00 | 100.00 |
| 72.00 | 25.80  | 16.61  |
| 0.00  | 0.00   | 0.00   |
| 0.00  | 0.00   | 0.00   |

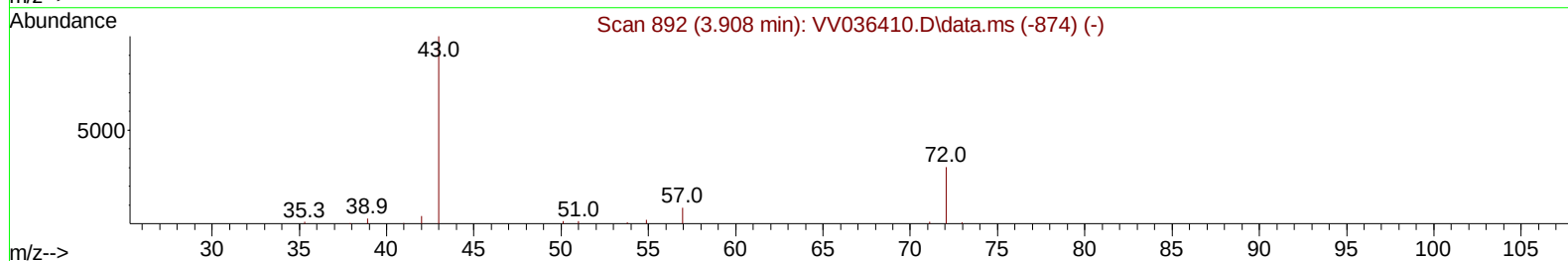
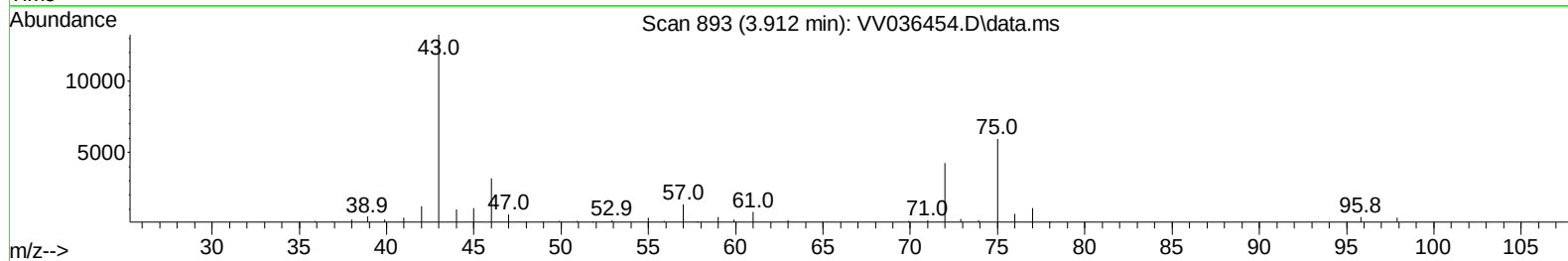
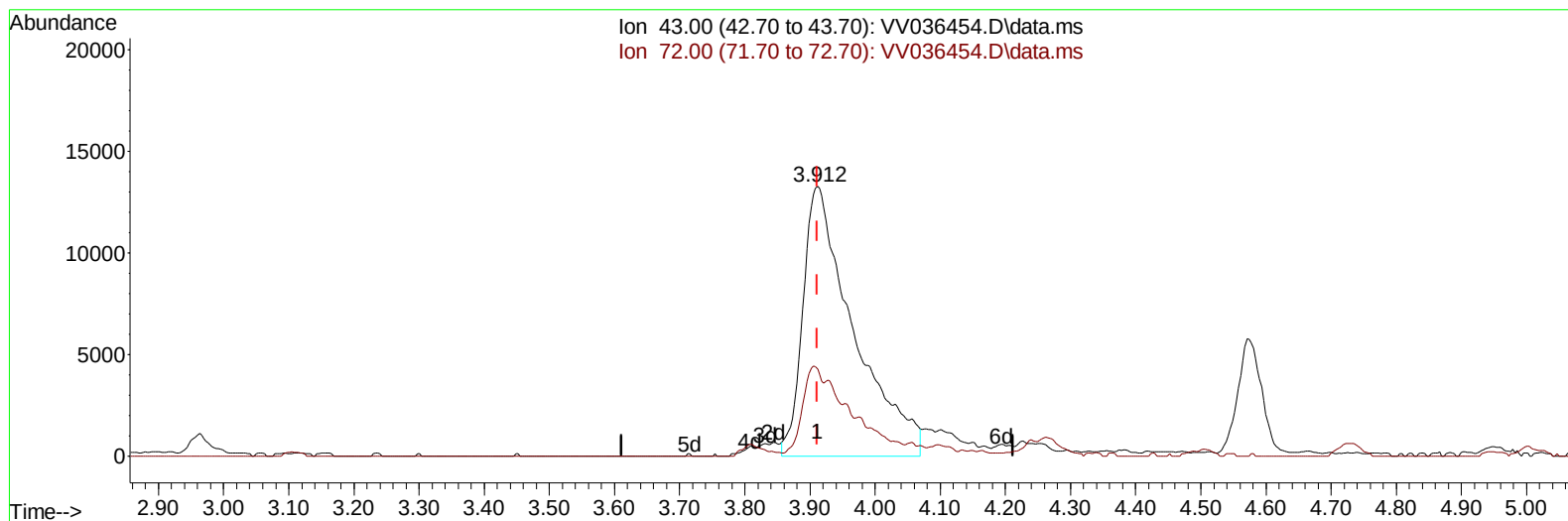
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Misc : 5.00g/10.0mL/MSVOA\_V/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
LabSampleId :  
VSTDCCC025

Manual IntegrationsAPPROVED

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Reviewed By :Mahesh Dadoda 07/08/2024  
Supervised By :Semsettin Yesilyurt 07/08/2024



TIC: VV036454.D\data.ms

(22) 2-Butanone (T)

3.912min (+ 0.000) 53.35 ug/L m

response 71450

| Ion   | Exp%   | Act%   |
|-------|--------|--------|
| 43.00 | 100.00 | 100.00 |
| 72.00 | 25.80  | 12.48# |
| 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

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| Compound                      | R.T.     | QIon  | Response | Conc   | Units    | Dev(Min) |
|-------------------------------|----------|-------|----------|--------|----------|----------|
| -----                         |          |       |          |        |          |          |
| Internal Standards            |          |       |          |        |          |          |
| 1) 1,4-Difluorobenzene        | 5.529    | 114   | 298256   | 25.000 | ug/L     | 0.00     |
| 28) Chlorobenzene-d5          | 8.783    | 117   | 311101   | 25.000 | ug/L     | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.181   | 152   | 181227   | 25.000 | ug/L     | 0.00     |
| System Monitoring Compounds   |          |       |          |        |          |          |
| 4) Vinyl Chloride-d3          | 1.275    | 65    | 100573   | 19.855 | ug/L     | 0.00     |
| Spiked Amount 25.000          | Range 30 | - 150 | Recovery | =      | 79.440%  |          |
| 7) Chloroethane-d5            | 1.529    | 69    | 88772    | 21.942 | ug/L     | 0.00     |
| Spiked Amount 25.000          | Range 30 | - 150 | Recovery | =      | 87.760%  |          |
| 11) 1,1-Dichloroethene-d2     | 2.053    | 65    | 49561    | 20.813 | ug/L     | 0.00     |
| Spiked Amount 25.000          | Range 45 | - 110 | Recovery | =      | 83.240%  |          |
| 21) 2-Butanone-d5             | 3.834    | 46    | 56969m   | 48.459 | ug/L     | -0.01    |
| Spiked Amount 50.000          | Range 20 | - 135 | Recovery | =      | 96.920%  |          |
| 24) Chloroform-d              | 4.243    | 84    | 220151   | 25.006 | ug/L     | 0.00     |
| Spiked Amount 25.000          | Range 40 | - 150 | Recovery | =      | 100.040% |          |
| 26) 1,2-Dichloroethane-d4     | 4.937    | 65    | 113192   | 24.109 | ug/L     | 0.00     |
| Spiked Amount 25.000          | Range 70 | - 130 | Recovery | =      | 96.440%  |          |
| 32) Benzene-d6                | 4.953    | 84    | 379095   | 21.586 | ug/L     | 0.00     |
| Spiked Amount 25.000          | Range 20 | - 135 | Recovery | =      | 86.360%  |          |
| 36) 1,2-Dichloropropane-d6    | 5.985    | 67    | 118668   | 22.465 | ug/L     | 0.00     |
| Spiked Amount 25.000          | Range 70 | - 120 | Recovery | =      | 89.840%  |          |
| 41) Toluene-d8                | 7.239    | 98    | 348858   | 22.032 | ug/L     | 0.00     |
| Spiked Amount 25.000          | Range 30 | - 130 | Recovery | =      | 88.120%  |          |
| 43) trans-1,3-Dichloroprop... | 7.551    | 79    | 51090    | 21.658 | ug/L     | 0.00     |
| Spiked Amount 25.000          | Range 30 | - 135 | Recovery | =      | 86.640%  |          |
| 47) 2-Hexanone-d5             | 8.030    | 63    | 35908    | 42.585 | ug/L     | 0.00     |
| Spiked Amount 50.000          | Range 20 | - 135 | Recovery | =      | 85.180%  |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.149   | 84    | 108846   | 25.137 | ug/L     | 0.00     |
| Spiked Amount 25.000          | Range 45 | - 120 | Recovery | =      | 100.560% |          |
| 66) 1,2-Dichlorobenzene-d4    | 11.558   | 152   | 145033   | 21.961 | ug/L     | 0.00     |
| Spiked Amount 25.000          | Range 75 | - 120 | Recovery | =      | 87.840%  |          |
| Target Compounds              |          |       |          |        |          |          |
|                               |          |       |          |        | Qvalue   |          |
| 2) Dichlorodifluoromethane    | 1.105    | 85    | 162794   | 28.728 | ug/L     | 99       |
| 3) Chloromethane              | 1.211    | 50    | 132922   | 25.913 | ug/L     | 100      |
| 5) Vinyl chloride             | 1.278    | 62    | 159676   | 26.957 | ug/L     | 100      |
| 6) Bromomethane               | 1.484    | 94    | 114700   | 28.792 | ug/L     | 99       |
| 8) Chloroethane               | 1.545    | 64    | 101719   | 27.863 | ug/L     | 100      |
| 9) Trichlorofluoromethane     | 1.709    | 101   | 250282   | 29.586 | ug/L     | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.060    | 101   | 161651   | 30.464 | ug/L     | 97       |
| 12) 1,1-Dichloroethene        | 2.063    | 96    | 141244   | 30.065 | ug/L     | 82       |
| 13) Acetone                   | 2.146    | 43    | 88666m   | 55.826 | ug/L     |          |
| 14) Carbon disulfide          | 2.233    | 76    | 387997   | 26.177 | ug/L     | 100      |
| 15) Methyl Acetate            | 2.384    | 43    | 50244    | 24.583 | ug/L     | 94       |
| 16) Methylene chloride        | 2.442    | 84    | 148955   | 25.368 | ug/L     | 95       |
| 17) trans-1,2-Dichloroethene  | 2.687    | 96    | 130700   | 28.020 | ug/L     | 96       |
| 18) Methyl tert-butyl Ether   | 2.703    | 73    | 282909   | 26.055 | ug/L     | 100      |
| 19) 1,1-Dichloroethane        | 3.104    | 63    | 232678   | 28.055 | ug/L     | 100      |
| 20) cis-1,2-Dichloroethene    | 3.809    | 96    | 128666   | 27.426 | ug/L     | 95       |
| 22) 2-Butanone                | 3.912    | 43    | 71450m   | 53.352 | ug/L     |          |
| 23) Bromochloromethane        | 4.140    | 128   | 72202    | 29.515 | ug/L     | 93       |

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 Response via : Initial Calibration

Reviewed By :Mahesh Dadoda 07/08/2024  
 Supervised By :Semsettin Yesilyurt 07/08/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 25) Chloroform                | 4.268  | 83   | 257960   | 29.162 | ug/L  | 98       |
| 27) 1,2-Dichloroethane        | 5.037  | 62   | 161053   | 28.118 | ug/L  | 98       |
| 29) Cyclohexane               | 4.577  | 56   | 162713   | 24.550 | ug/L  | 98       |
| 30) 1,1,1-Trichloroethane     | 4.503  | 97   | 226914   | 29.417 | ug/L  | 99       |
| 31) Carbon tetrachloride      | 4.728  | 117  | 202497   | 29.463 | ug/L  | 99       |
| 33) Benzene                   | 5.002  | 78   | 515556   | 27.979 | ug/L  | 100      |
| 34) Trichloroethene           | 5.828  | 95   | 155640   | 26.767 | ug/L  | 95       |
| 35) Methylcyclohexane         | 6.047  | 83   | 214697   | 26.495 | ug/L  | 99       |
| 37) 1,2-Dichloropropane       | 6.088  | 63   | 134017   | 28.478 | ug/L  | 99       |
| 38) Bromodichloromethane      | 6.429  | 83   | 182860   | 28.410 | ug/L  | 100      |
| 39) cis-1,3-Dichloropropene   | 6.950  | 75   | 191112   | 26.410 | ug/L  | 99       |
| 40) 4-Methyl-2-pentanone      | 7.159  | 43   | 130983   | 49.353 | ug/L  | 97       |
| 42) Toluene                   | 7.310  | 91   | 564167   | 29.282 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene | 7.577  | 75   | 177444   | 27.263 | ug/L  | 98       |
| 45) 1,1,2-Trichloroethane     | 7.767  | 97   | 117027   | 28.135 | ug/L  | 98       |
| 46) Tetrachloroethene         | 7.902  | 164  | 124566   | 29.477 | ug/L  | 96       |
| 48) 2-Hexanone                | 8.079  | 43   | 105436   | 50.506 | ug/L  | 98       |
| 49) Dibromochloromethane      | 8.172  | 129  | 136252   | 29.384 | ug/L  | 99       |
| 50) 1,2-Dibromoethane         | 8.278  | 107  | 114426   | 27.924 | ug/L  | 98       |
| 51) Chlorobenzene             | 8.808  | 112  | 365509   | 27.753 | ug/L  | 97       |
| 52) Ethylbenzene              | 8.943  | 91   | 585763   | 28.172 | ug/L  | 99       |
| 53) m,p-Xylene                | 9.069  | 106  | 234546   | 30.267 | ug/L  | 96       |
| 54) o-Xylene                  | 9.474  | 106  | 214133   | 29.385 | ug/L  | 97       |
| 55) Styrene                   | 9.493  | 104  | 401979   | 31.475 | ug/L  | 98       |
| 57) 1,1,2,2-Tetrachloroethane | 10.175 | 83   | 103610   | 27.831 | ug/L  | 98       |
| 59) Bromoform                 | 9.661  | 173  | 91466    | 26.662 | ug/L  | 99       |
| 60) Isopropylbenzene          | 9.863  | 105  | 588021   | 26.842 | ug/L  | 99       |
| 61) 1,2,3-Trichloropropane    | 10.207 | 75   | 98954    | 24.195 | ug/L  | 97       |
| 62) 1,3,5-Trimethylbenzene    | 10.474 | 105  | 415003   | 26.471 | ug/L  | 99       |
| 63) 1,2,4-Trimethylbenzene    | 10.850 | 105  | 463246   | 27.191 | ug/L  | 100      |
| 64) 1,3-Dichlorobenzene       | 11.114 | 146  | 311684   | 27.304 | ug/L  | 98       |
| 65) 1,4-Dichlorobenzene       | 11.204 | 146  | 325473   | 26.599 | ug/L  | 98       |
| 67) 1,2-Dichlorobenzene       | 11.574 | 146  | 289277   | 26.545 | ug/L  | 98       |
| 68) 1,2-Dibromo-3-chloropr... | 12.361 | 75   | 22475    | 24.495 | ug/L  | 93       |
| 69) 1,3,5-Trichlorobenzene    | 12.577 | 180  | 225475   | 26.232 | ug/L  | 98       |
| 70) 1,2,4-trichlorobenzene    | 13.194 | 180  | 173309   | 25.284 | ug/L  | 99       |
| 71) Naphthalene               | 13.435 | 128  | 274754   | 22.481 | ug/L  | 100      |
| 72) 1,2,3-Trichlorobenzene    | 13.676 | 180  | 171635   | 26.628 | ug/L  | 99       |

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



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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM062724SMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Jul 04 02:05:51 2024  
 Response via : Initial Calibration

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