

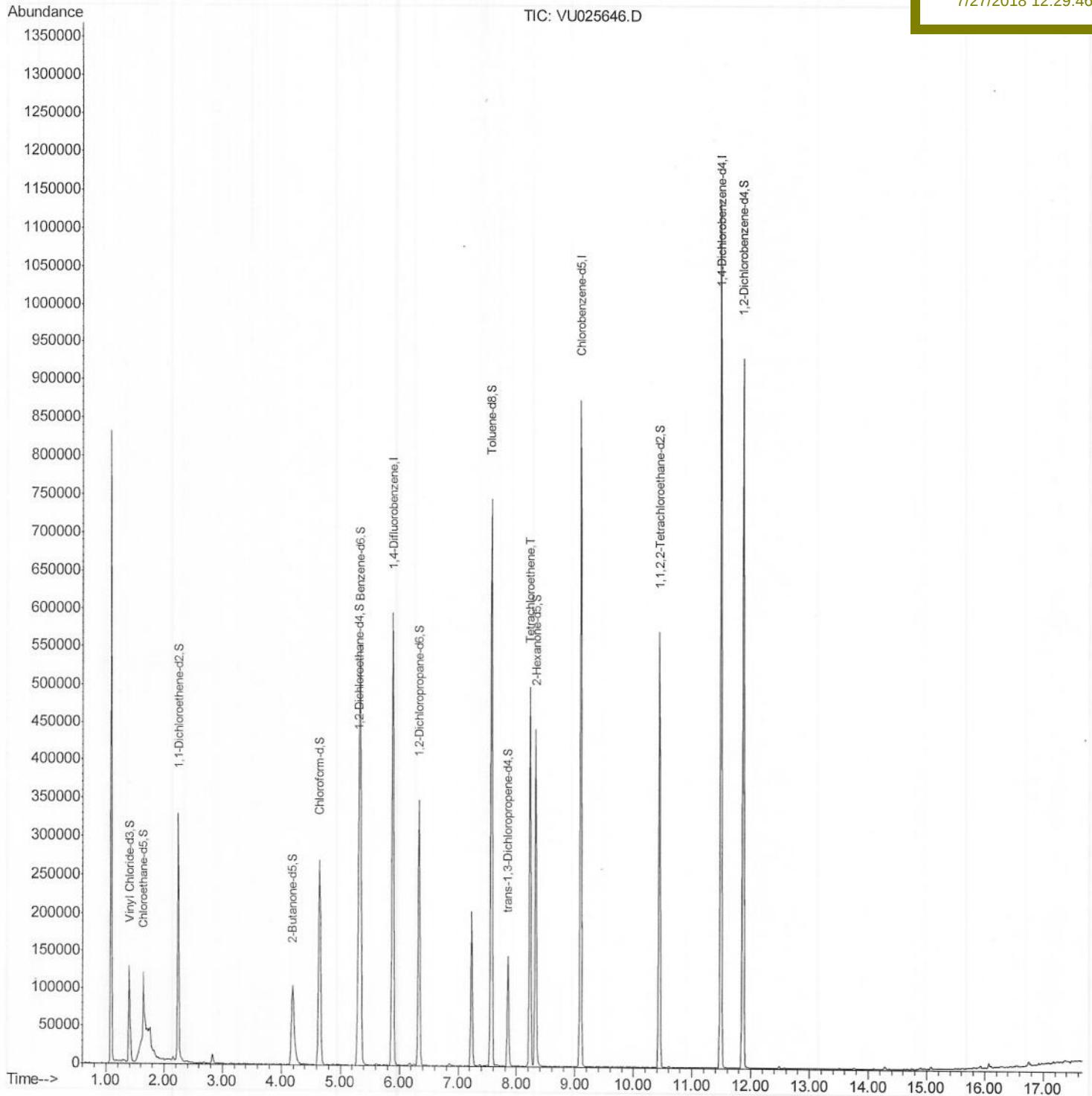
Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU072618\  
Data File : VU025646.D  
Acq On : 26 Jul 2018 12:26  
Operator : MD/SY  
Sample : J4040-09ME  
Misc : 5.29g/5mL/100uL/5.00mL/MSVOA\_U/MEOH  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 27 02:29:38 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072018WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jul 27 02:03:29 2018  
Response via : Initial Calibration

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0AE3ME

Manual Integrations  
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MMDadoda  
7/27/2018 12:29:46 PM



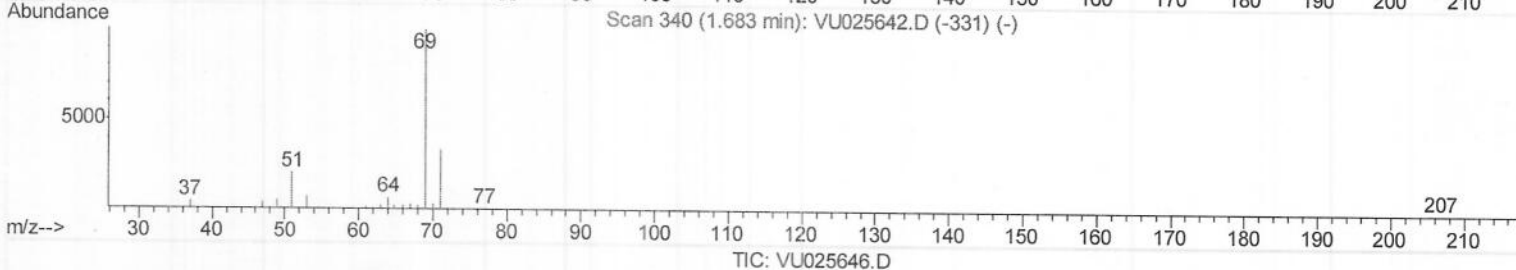
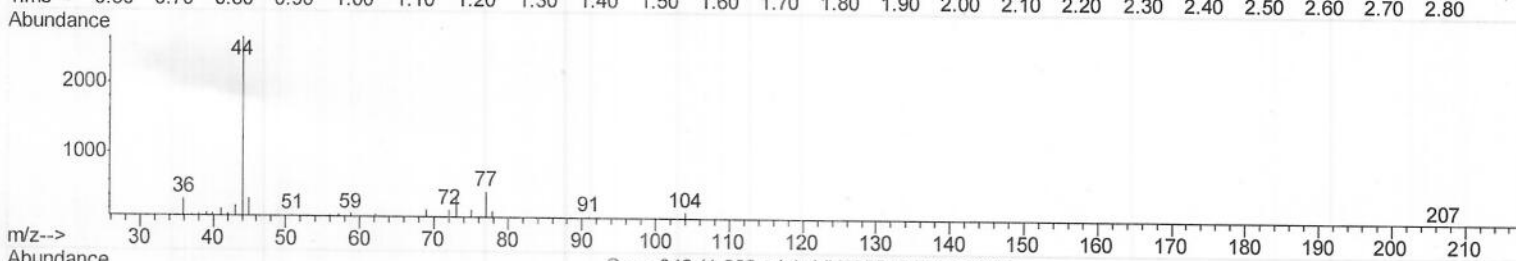
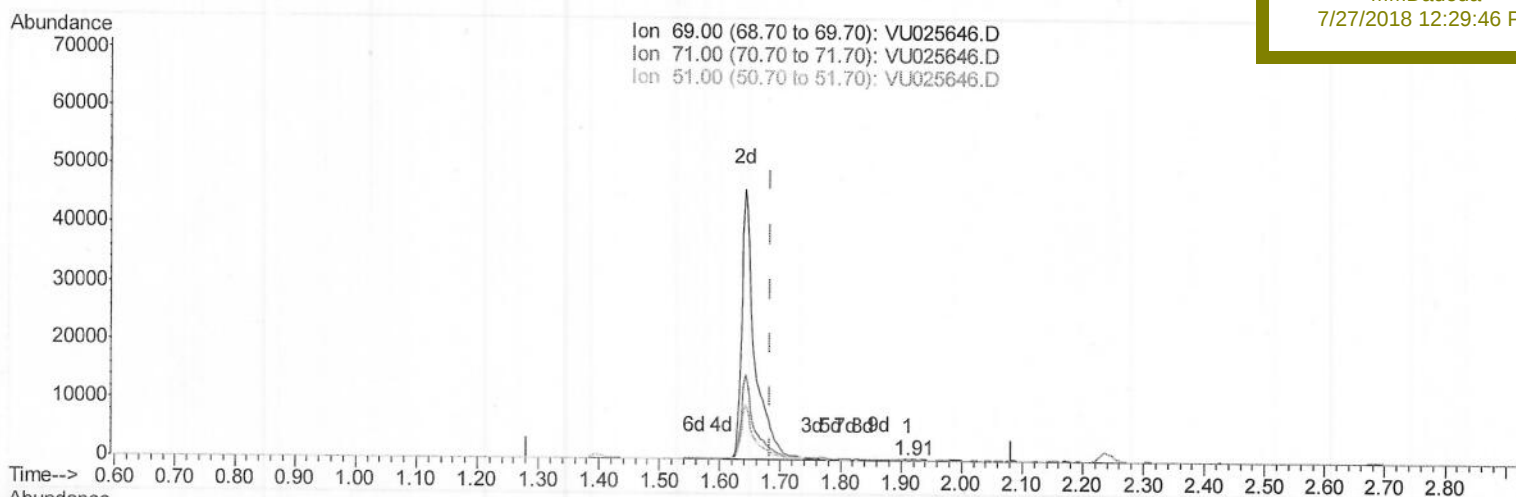
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Data File : VU025646.D  
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Operator : MD/SY  
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Misc : 5.29g/5mL/100uL/5.00mL/MSVOA\_U/MEOH  
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 27 02:04:18 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072018WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Jul 27 02:03:29 2018  
Response via : Initial Calibration

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0AE3ME

Manual Integrations  
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(7) Chloroethane-d5 (S)

1.911min (+0.228) 0.08ug/L

response 190

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 69.00 | 100   | 100   |
| 71.00 | 32.40 | 33.16 |
| 51.00 | 29.00 | 34.74 |
| 0.00  | 0.00  | 0.00  |

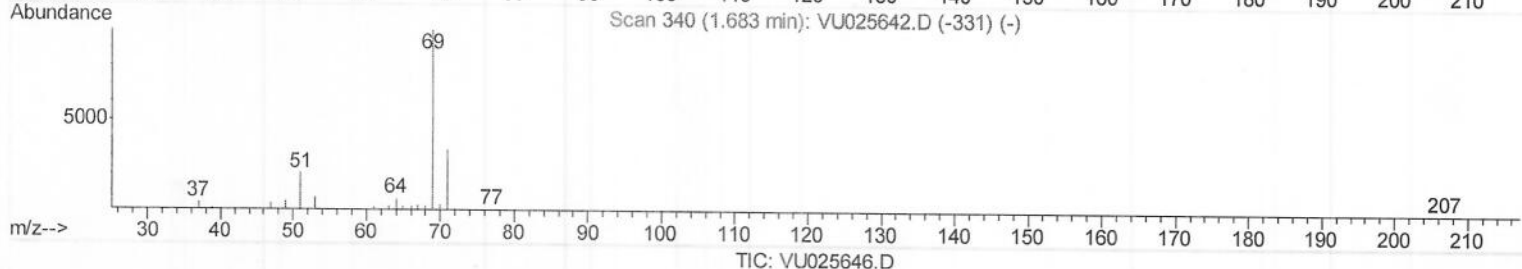
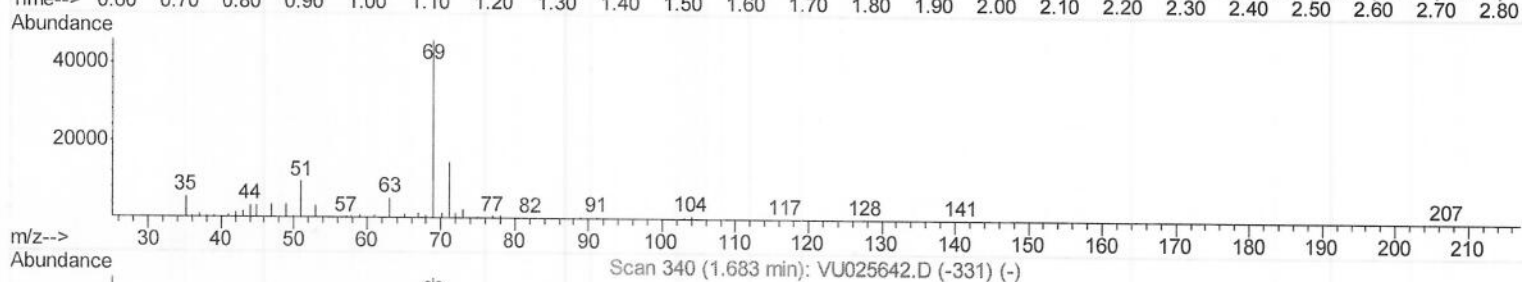
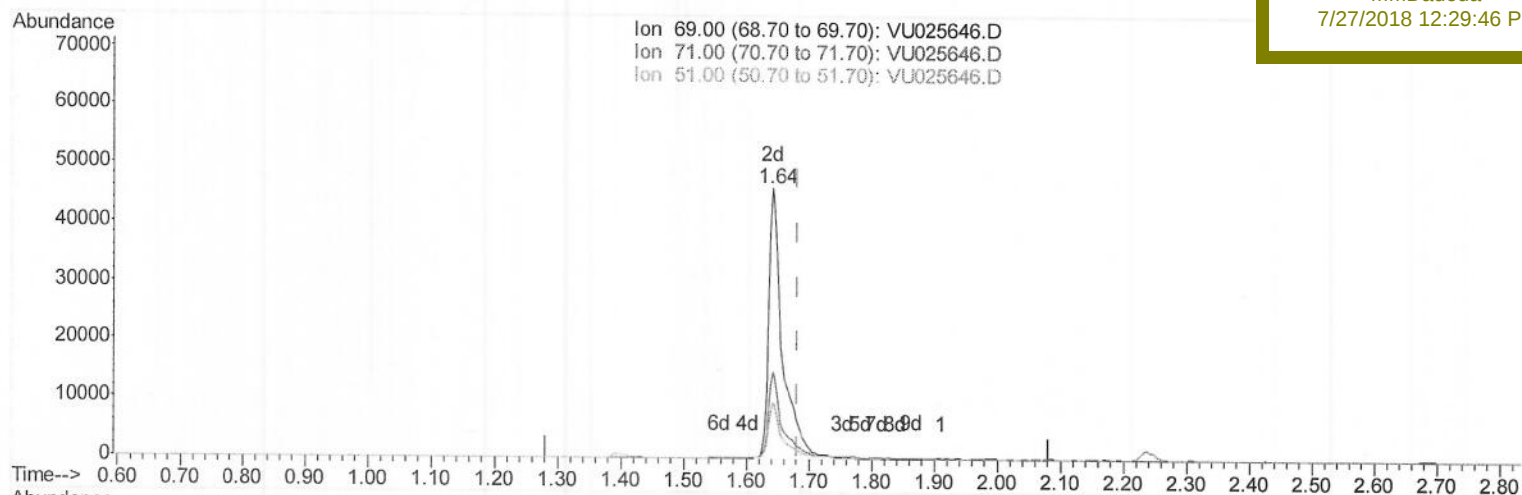
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 Data File : VU025646.D  
 Acq On : 26 Jul 2018 12:26  
 Operator : MD/SY  
 Sample : J4040-09ME  
 Misc : 5.29g/5mL/100uL/5.00mL/MSVOA\_U/MEOH  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0AE3ME

Quant Time: Jul 27 02:04:18 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072018WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jul 27 02:03:29 2018  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

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 7/27/2018 12:29:46 PM



(7) Chloroethane-d5 (S)

1.641min (-0.042) 29.32ug/L m

response 71285

Ion Exp% Act%

69.00 100 100

71.00 32.40 0.09#

51.00 29.00 0.09#

0.00 0.00 0.00

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 08/06/18

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU072618\  
 Data File : VU025646.D  
 Acq On : 26 Jul 2018 12:26  
 Operator : MD/SY  
 Sample : J4040-09ME  
 Misc : 5.29g/5mL/100uL/5.00mL/MSVOA\_U/MEOH  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 Client Sampled :  
 C0AE3ME

Quant Time: Jul 27 02:29:38 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072018WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jul 27 02:03:29 2018  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

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 7/27/2018 12:29:46 PM

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 516324   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 497091   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 298121   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |                |     |            |         |      |       |
|--------------------------------|----------------|-----|------------|---------|------|-------|
| 4) Vinyl Chloride-d3           | 1.39           | 65  | 123045     | 41.74   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 60 - 135 |     | Recovery = | 83.48%  |      |       |
| 7) Chloroethane-d5             | 1.64           | 69  | 71285m     | 29.32   | ug/L | -0.04 |
| Spiked Amount 50.000           | Range 70 - 130 |     | Recovery = | 58.64%# |      |       |
| 11) 1,1-Dichloroethene-d2      | 2.24           | 63  | 185423     | 30.22   | ug/L | -0.04 |
| Spiked Amount 50.000           | Range 60 - 125 |     | Recovery = | 60.44%  |      |       |
| 21) 2-Butanone-d5              | 4.19           | 46  | 212569     | 93.41   | ug/L | 0.02  |
| Spiked Amount 100.000          | Range 40 - 130 |     | Recovery = | 93.41%  |      |       |
| 24) Chloroform-d               | 4.64           | 84  | 267353     | 40.72   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 70 - 125 |     | Recovery = | 81.44%  |      |       |
| 26) 1,2-Dichloroethane-d4      | 5.31           | 65  | 188348     | 43.38   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 70 - 125 |     | Recovery = | 86.76%  |      |       |
| 32) Benzene-d6                 | 5.34           | 84  | 529747     | 41.55   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 70 - 125 |     | Recovery = | 83.10%  |      |       |
| 36) 1,2-Dichloropropane-d6     | 6.33           | 67  | 170456     | 41.50   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 70 - 120 |     | Recovery = | 83.00%  |      |       |
| 41) Toluene-d8                 | 7.57           | 98  | 501860     | 41.05   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 80 - 120 |     | Recovery = | 82.10%  |      |       |
| 43) trans-1,3-Dichloropropene- | 7.85           | 79  | 85036      | 40.53   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 60 - 125 |     | Recovery = | 81.06%  |      |       |
| 47) 2-Hexanone-d5              | 8.32           | 63  | 172433     | 100.25  | ug/L | 0.01  |
| Spiked Amount 100.000          | Range 45 - 130 |     | Recovery = | 100.25% |      |       |
| 57) 1,1,2,2-Tetrachloroethane- | 10.44          | 84  | 267029     | 46.48   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 65 - 120 |     | Recovery = | 92.96%  |      |       |
| 64) 1,2-Dichlorobenzene-d4     | 11.87          | 152 | 250241     | 41.42   | ug/L | 0.00  |
| Spiked Amount 50.000           | Range 80 - 120 |     | Recovery = | 82.84%  |      |       |

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| Target Compounds      | R.T. | QIon | Response | Conc   | Units | Qvalue |
|-----------------------|------|------|----------|--------|-------|--------|
| 46) Tetrachloroethene | 8.23 | 164  | 114431   | 34.830 | ug/L  | 98     |

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