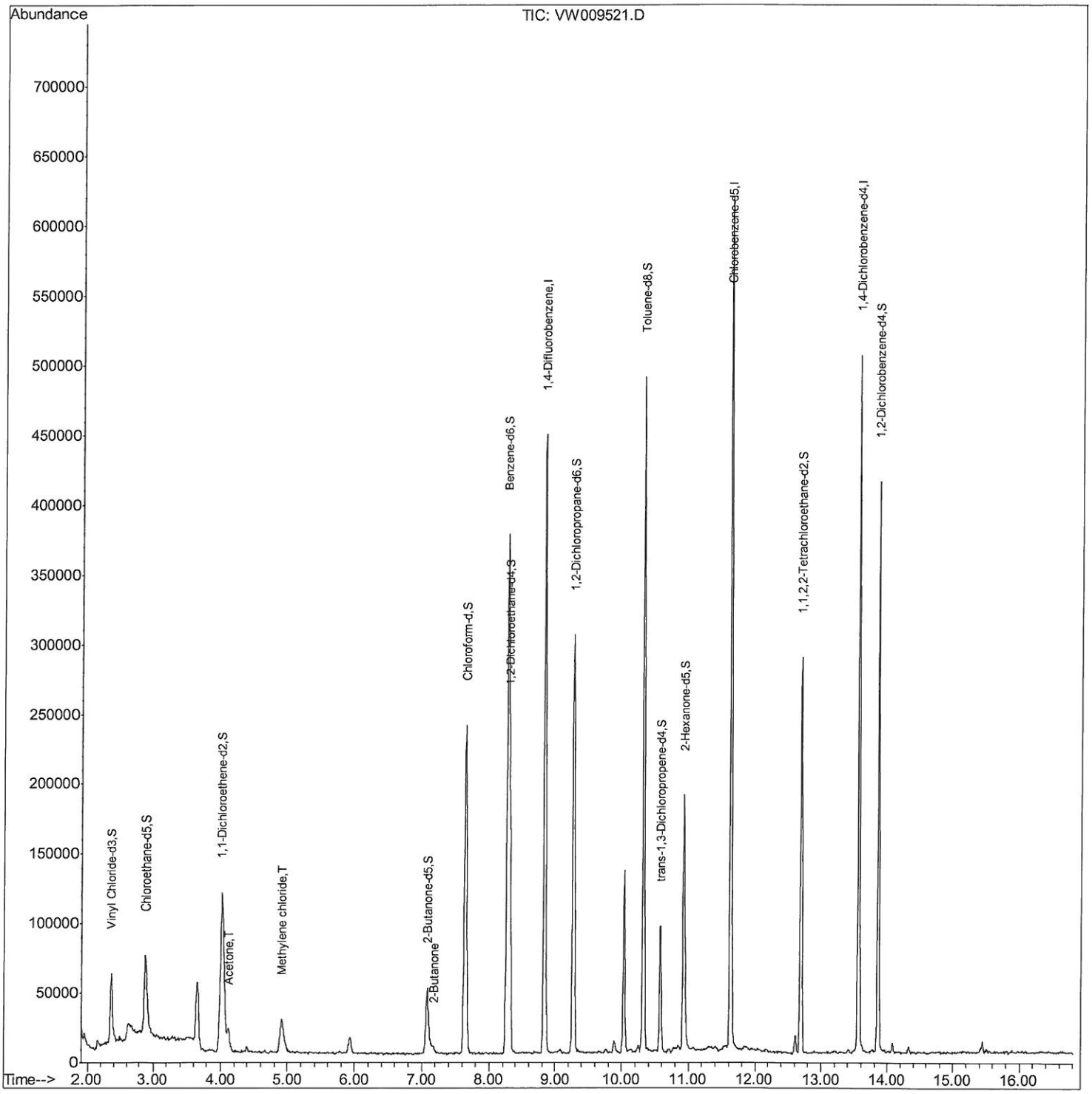
Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
Data File : VW009521.D
Acq On : 28 Mar 2019 01:27
Operator : SY/VA
Sample : K2068-17
Misc : 4.89G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 08:26:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 07:41:43 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
BF5L1

**Manual Integrations APPROVED**
MMDadoda
3/28/2019 2:48:12 PM



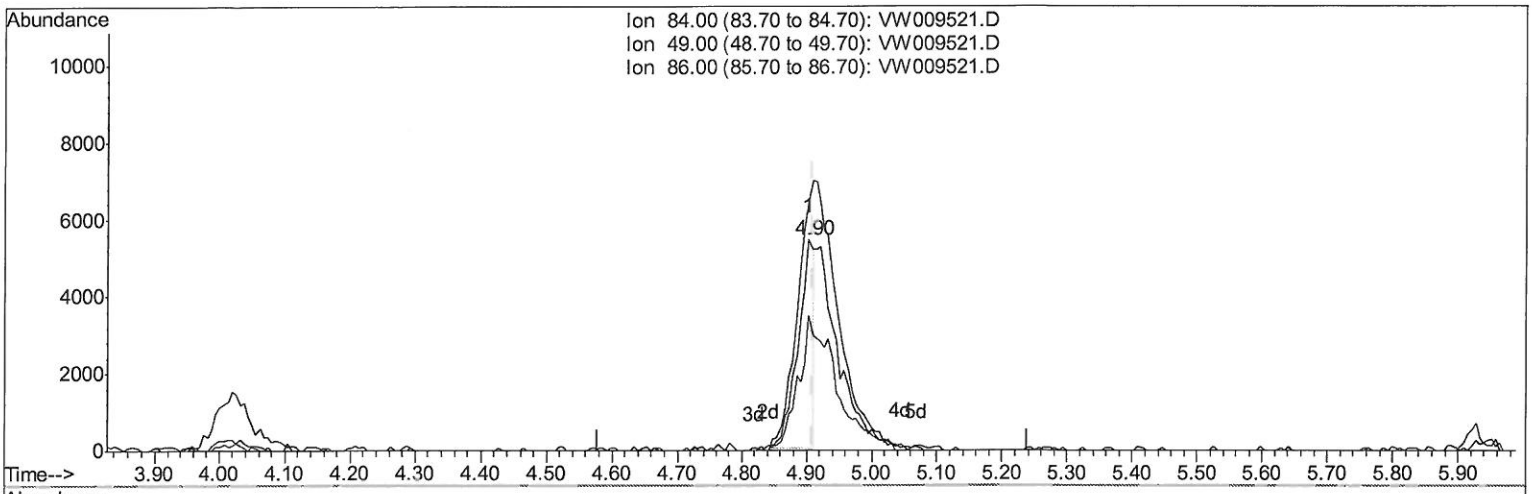
Quantitation Report (Qedit)

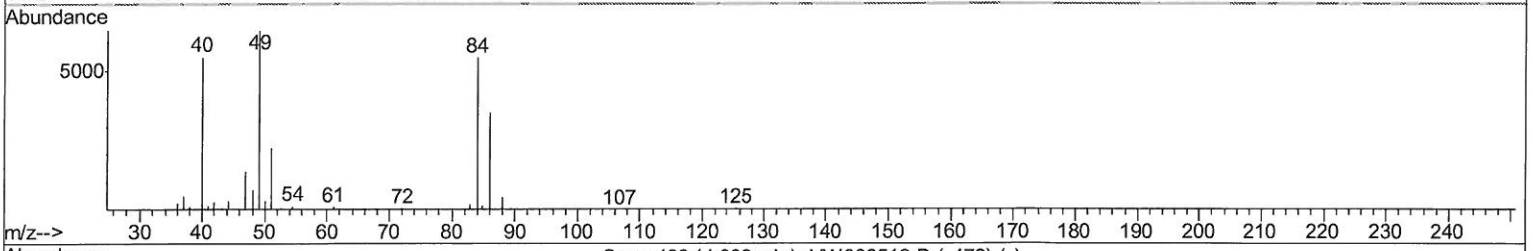
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
Data File : VW009521.D
Acq On : 28 Mar 2019 01:27
Operator : SY/VA
Sample : K2068-17
Misc : 4.89G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

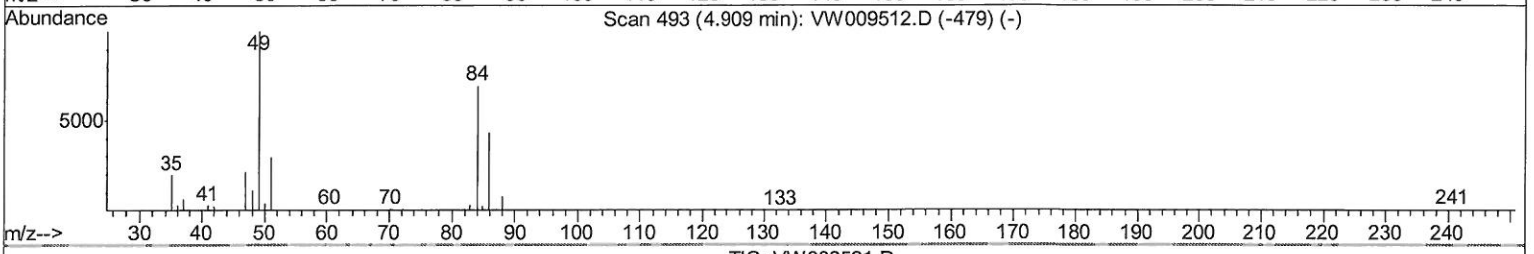
Quant Time: Mar 28 07:47:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 07:41:43 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
BF5L1

**Manual Integrations APPROVED**
MMDadoda
3/28/2019 2:48:12 PM




TIC: VW009521.D

(16) Methylene chloride (T)

4.903min (-0.006) 1.78ug/L

response 8957

| Ion | Exp% | Act% |
|---|---|---|
| 84.00 | 100 | 100 |
| 49.00 | 137.10 | 117.64 |
| 86.00 | 63.50 | 64.03 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (Qedit)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
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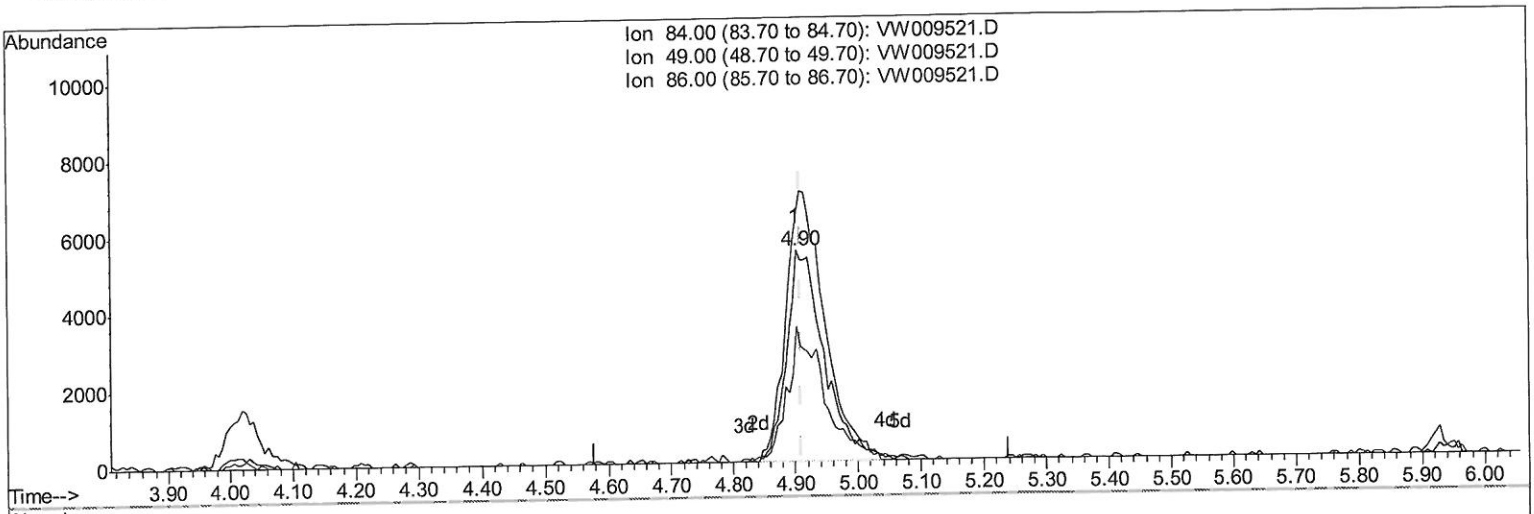
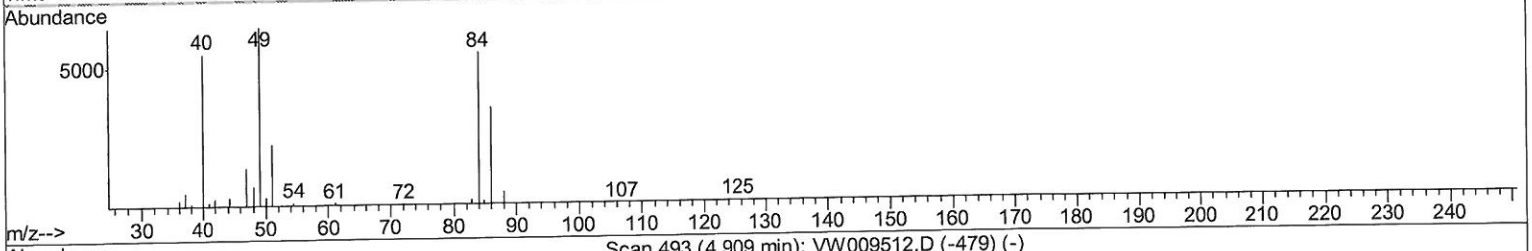
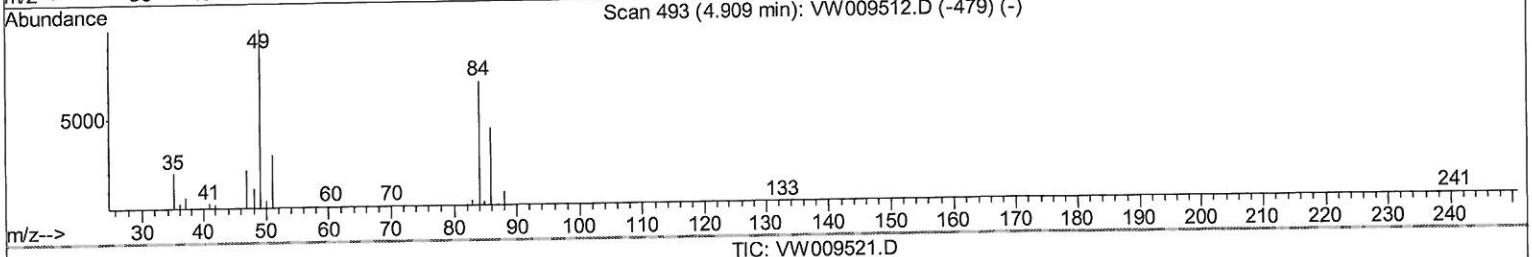
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
BF5L1

**Manual Integrations APPROVED**
MMDadoda
3/28/2019 2:48:12 PM




TIC: VW009521.D

(16) Methylene chloride (T)

4.903min (-0.006) 4.55ug/L m

response 22874

| Ion | Exp% | Act% |
|---|---|---|
| 84.00 | 100 | 100 |
| 49.00 | 137.10 | 117.64 |
| 86.00 | 63.50 | 64.03 |
| 0.00 | 0.00 | 0.00 |

>MD 4/16/19

# Quantitation Report (Qedit)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
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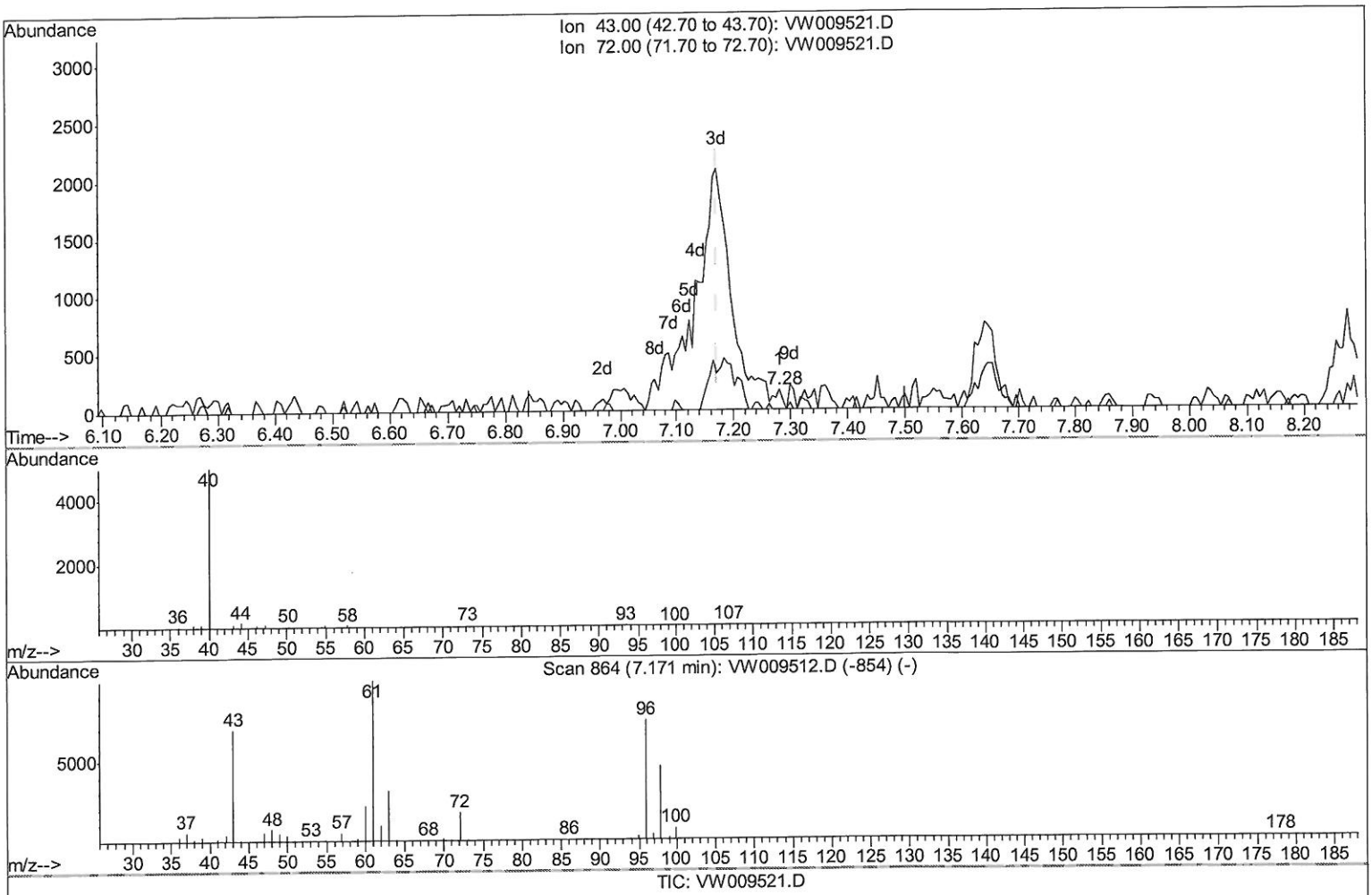
Operator : SY/VA
Sample : K2068-17
Misc : 4.89G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 07:47:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 07:41:43 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
BF5L1

**Manual Integrations APPROVED**
MMDadoda
3/28/2019 2:48:12 PM




TIC: VW009521.D

(21) 2-Butanone

7.281min (+0.110) 0.08ug/L

response 158

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 72.00 | 26.10 | 25.32 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

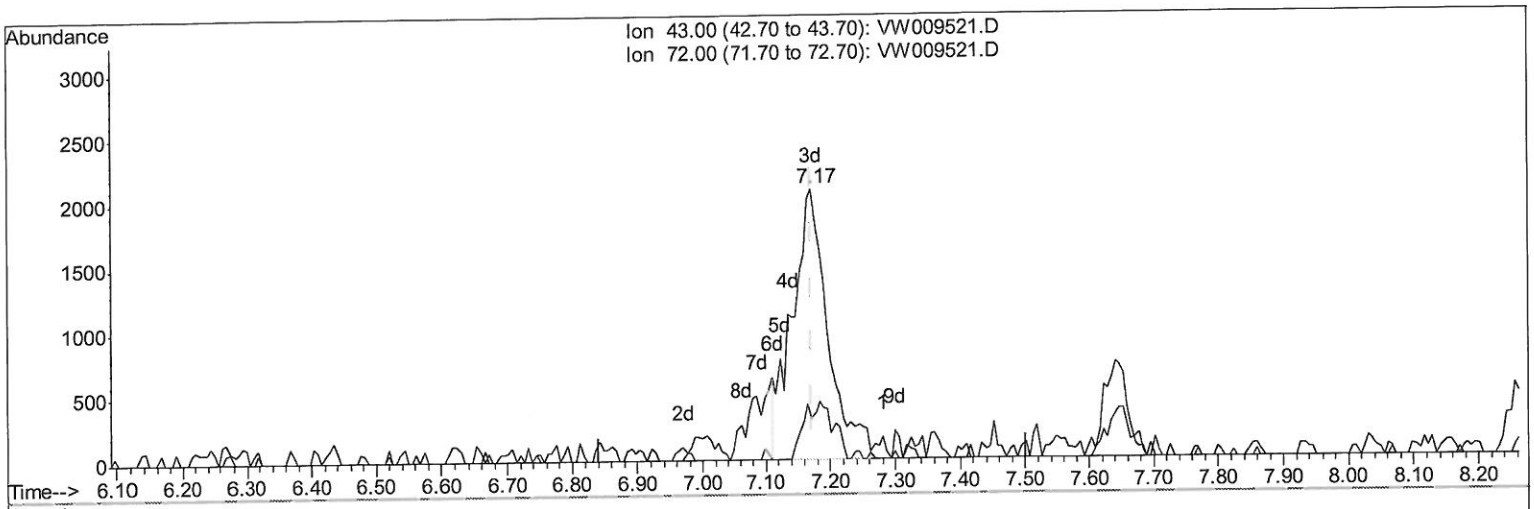
# Quantitation Report (Qedit)

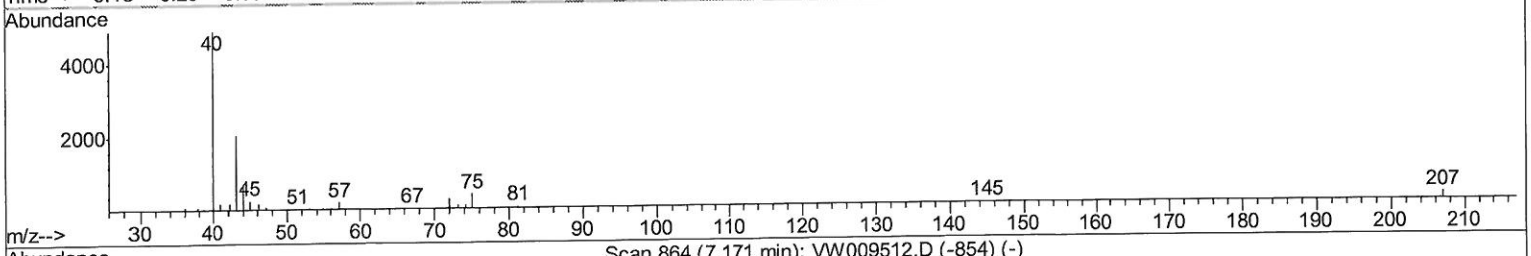
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
Data File : VW009521.D
Acq On : 28 Mar 2019 01:27
Operator : SY/VA
Sample : K2068-17
Misc : 4.89G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

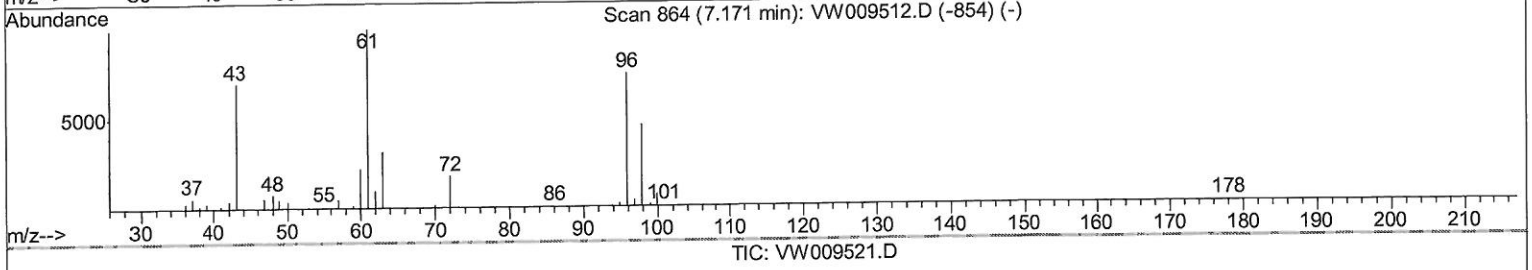
Quant Time: Mar 28 07:47:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 07:41:43 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
BF5L1

**Manual Integrations APPROVED**
MMDadoda
3/28/2019 2:48:12 PM




TIC: VW009521.D

(21) 2-Butanone

7.171min (0.000) 4.11ug/L m

response 7936

| Ion | Exp% | Act% |
|---|---|---|
| 43.00 | 100 | 100 |
| 72.00 | 26.10 | 0.50# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

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4/6/19

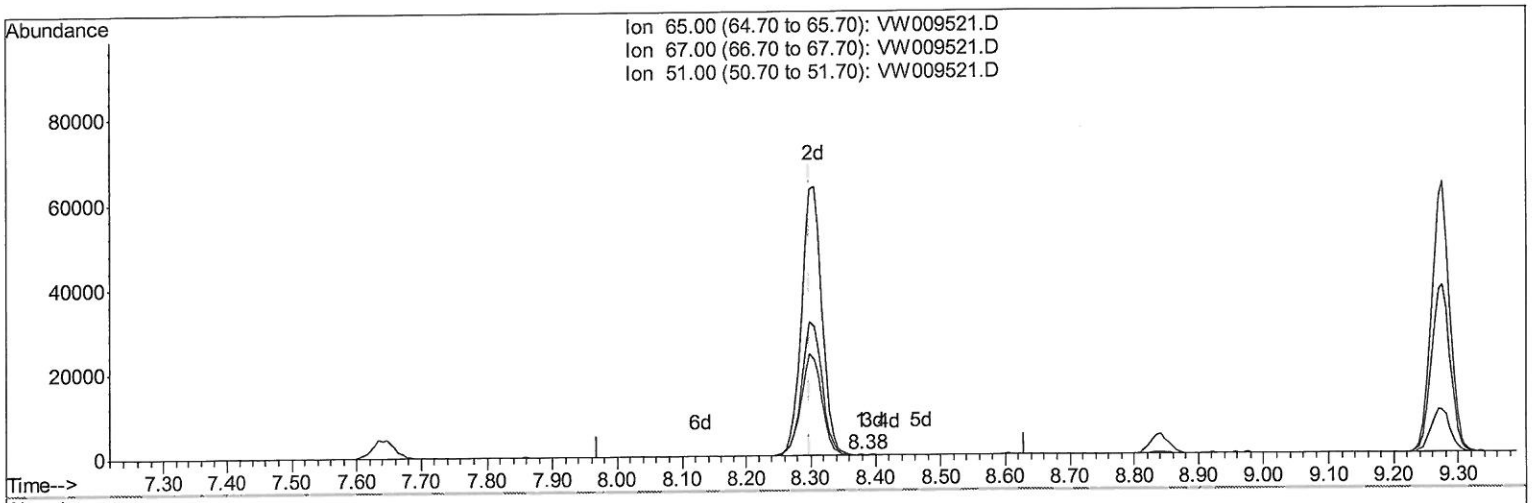
Quantitation Report (Qedit)

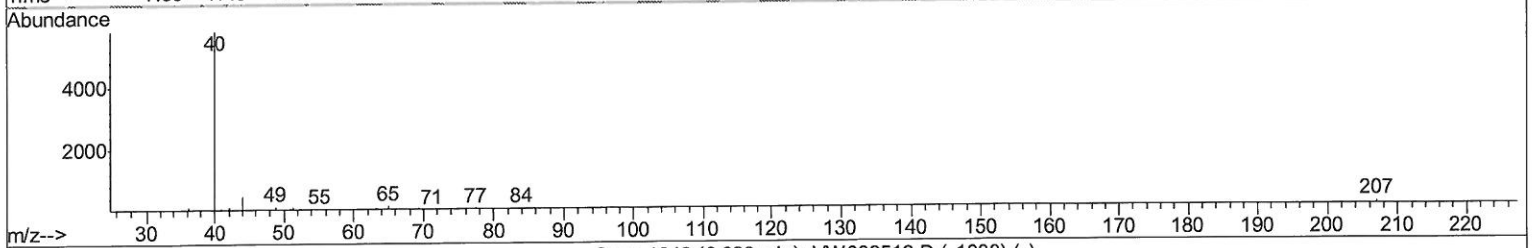
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
Data File : VW009521.D
Acq On : 28 Mar 2019 01:27
Operator : SY/VA
Sample : K2068-17
Misc : 4.89G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

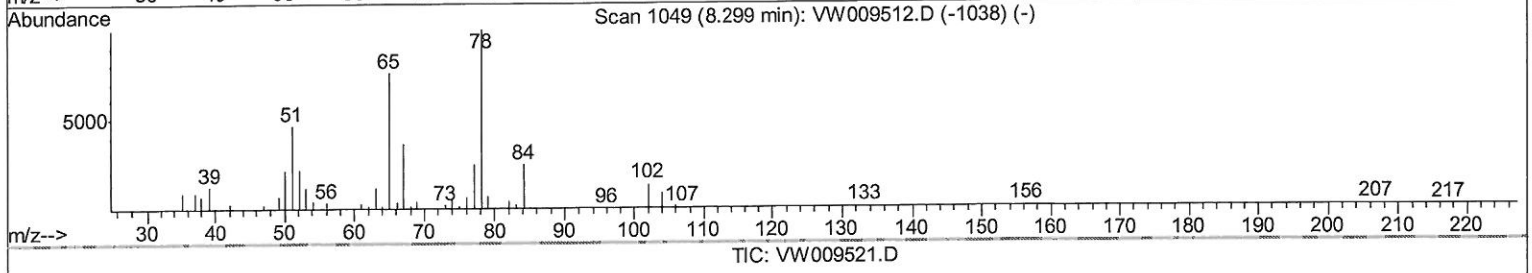
Quant Time: Mar 28 07:47:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 07:41:43 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
BF5L1

**Manual Integrations APPROVED**
MMDadoda
3/28/2019 2:48:12 PM




TIC: VW009521.D

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

8.378min (+0.079) 0.02ug/L

response 131

| Ion | Exp% | Act% |
|---|---|---|
| 65.00 | 100 | 100 |
| 67.00 | 50.80 | 64.89 |
| 51.00 | 97.70 | 100.00 |
| 0.00 | 0.00 | 0.00 |

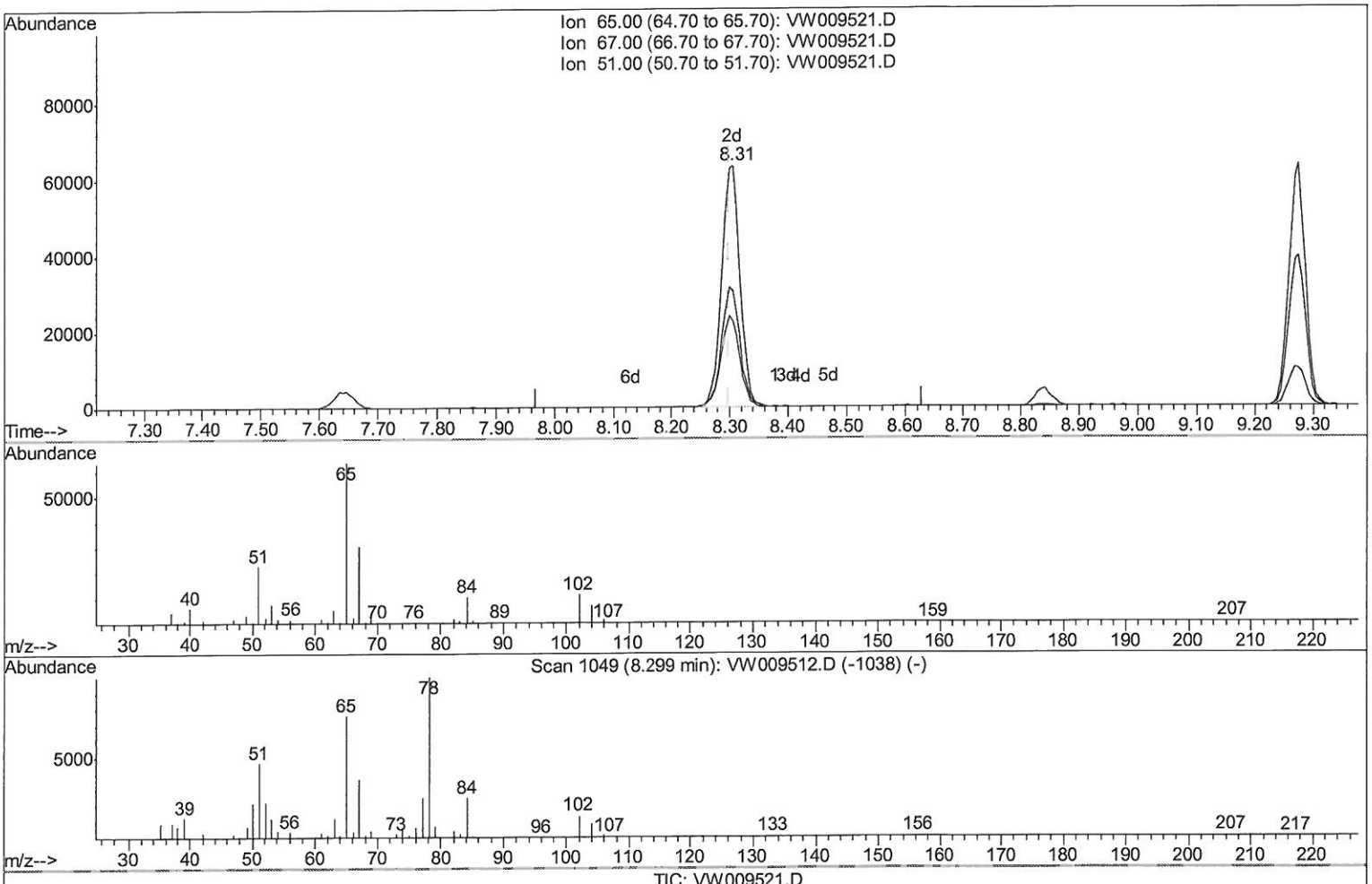
# Quantitation Report (Qedit)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
Data File : VW009521.D
Acq On : 28 Mar 2019 01:27
Operator : SY/VA
Sample : K2068-17
Misc : 4.89G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 07:47:18 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 07:41:43 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
BF5L1

**Manual Integrations APPROVED**
MMDadoda
3/28/2019 2:48:12 PM




TIC: VW009521.D

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

8.305min (+0.006) 24.24ug/L m

response 137473

| Ion | Exp% | Act% |
|---|---|---|
| 65.00 | 100 | 100 |
| 67.00 | 50.80 | 0.06# |
| 51.00 | 97.70 | 0.10# |
| 0.00 | 0.00 | 0.00 |

7 MD 4/6/19

Quantitation Report (QT Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW032719\
Data File : VW009521.D
Acq On : 28 Mar 2019 01:27
Operator : SY/VA
Sample : K2068-17
Misc : 4.89G/10ML/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
BF5L1

Manual Integrations APPROVED
MMDadoda
3/28/2019 2:48:12 PM

Quant Time: Mar 28 08:26:40 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM031419S.M
Quant Title : VOC Analysis
QLast Update : Thu Mar 28 07:41:43 2019
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 8.84 | 114 | 345012 | 25.00 | ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 11.63 | 117 | 320652 | 25.00 | ug/L | 0.00 |
| 60) 1,4-Dichlorobenzene-d4 | 13.56 | 152 | 118052 | 25.00 | ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 4) Vinyl Chloride-d3 | 2.36 | 65 | 68547 | 16.63 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 30 - 150 | | Recovery = 66.52% | | | |
| 7) Chloroethane-d5 | 2.89 | 69 | 86588 | 17.95 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 30 - 150 | | Recovery = 71.80% | | | |
| 10) 1,1-Dichloroethene-d2 | 4.01 | 63 | 129794 | 14.57 | ug/L | -0.01 |
| Spiked Amount 25.000 | Range 45 - 110 | | Recovery = 58.28% | | | |
| 20) 2-Butanone-d5 | 7.08 | 46 | 74006 | 43.40 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 20 - 135 | | Recovery = 86.80% | | | |
| 24) Chloroform-d | 7.64 | 84 | 217169 | 23.07 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 40 - 150 | | Recovery = 92.28% | | | |
| 26) 1,2-Dichloroethane-d4 | 8.31 | 65 | 137473m | 24.24 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 70 - 130 | | Recovery = 96.96% | | | |
| 29) Benzene-d6 | 8.27 | 84 | 364949 | 20.64 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 20 - 135 | | Recovery = 82.56% | | | |
| 33) 1,2-Dichloropropane-d6 | 9.27 | 67 | 123951 | 23.34 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 70 - 120 | | Recovery = 93.36% | | | |
| 37) Toluene-d8 | 10.32 | 98 | 298205 | 18.24 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 30 - 130 | | Recovery = 72.96% | | | |
| 38) trans-1,3-Dichloropropene- | 10.58 | 79 | 45934 | 17.22 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 30 - 135 | | Recovery = 68.88% | | | |
| 39) 2-Hexanone-d5 | 10.93 | 63 | 47384 | 36.84 | ug/L | 0.00 |
| Spiked Amount 50.000 | Range 20 - 135 | | Recovery = 73.68% | | | |
| 48) 1,1,2,2-Tetrachloroethane- | 12.69 | 84 | 123707 | 23.65 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 45 - 120 | | Recovery = 94.60% | | | |
| 61) 1,2-Dichlorobenzene-d4 | 13.85 | 152 | 99257 | 21.93 | ug/L | 0.00 |
| Spiked Amount 25.000 | Range 75 - 120 | | Recovery = 87.72% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 13) Acetone | 4.12 | 43 | 23748 | 16.984 | ug/L | 97 |
| 16) Methylene chloride | 4.90 | 84 | 22874m | 4.546 | ug/L | |
| 21) 2-Butanone | 7.17 | 43 | 7936m | 4.111 | ug/L | |

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