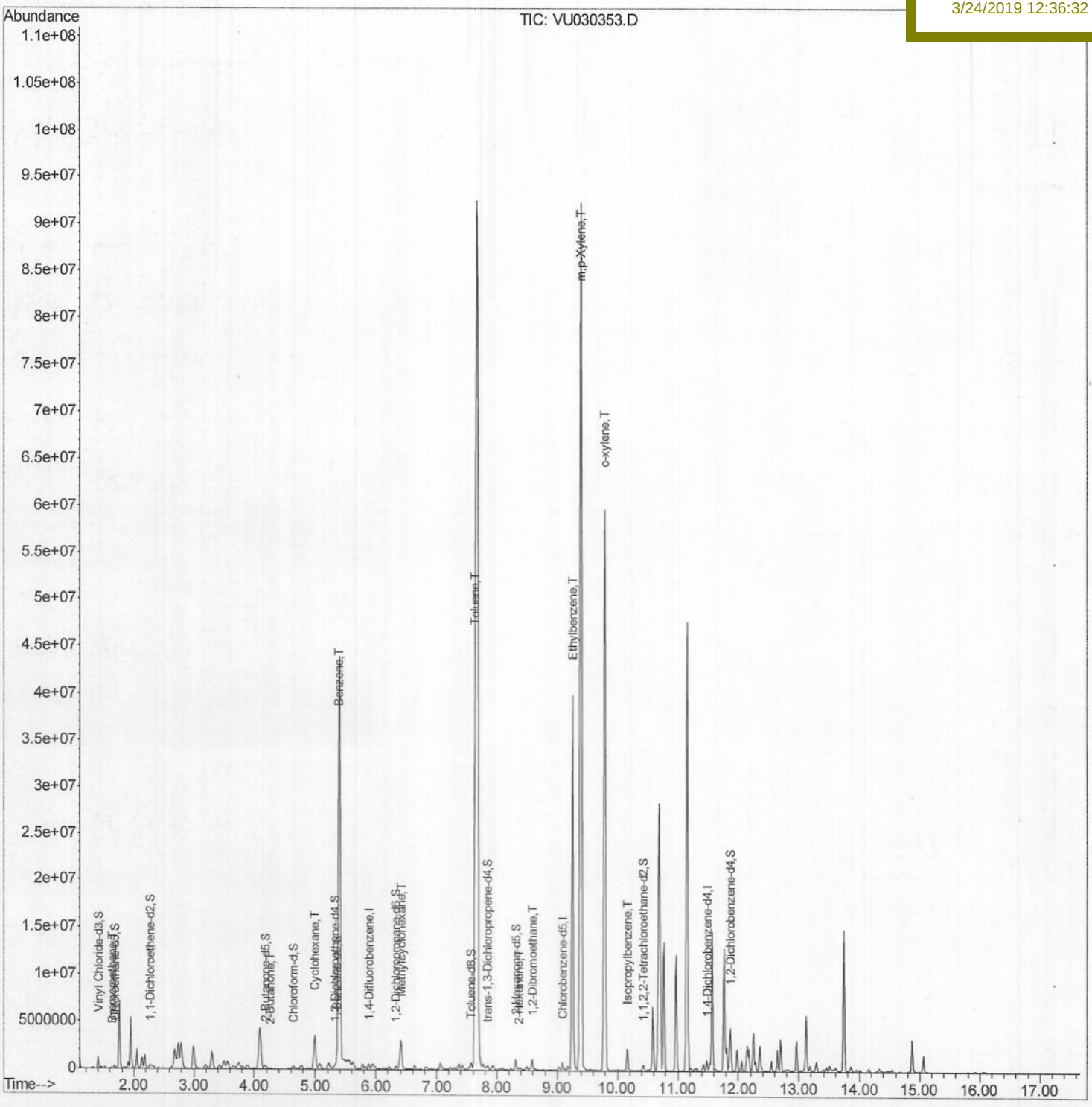
Quantitation Report (LSC Reviewed)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032319\
Data File : VU030353.D
Acq On : 23 Mar 2019 20:21
Operator : JC/SP
Sample : K2063-03
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 24 12:29:55 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Sun Mar 24 02:05:17 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_U
**ClientSampleId :**
DB6R5

**Manual Integrations APPROVED**
MMDadoda
3/24/2019 12:36:32 PM



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032319\

Quantitation Report (Qedit)

Data File : VU030353.D
Acq On : 23 Mar 2019 20:21
Operator : JC/SP
Sample : K2063-03
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 24 04:01:56 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Sun Mar 24 02:05:17 2019
Response via : Initial Calibration

**Instrument :**
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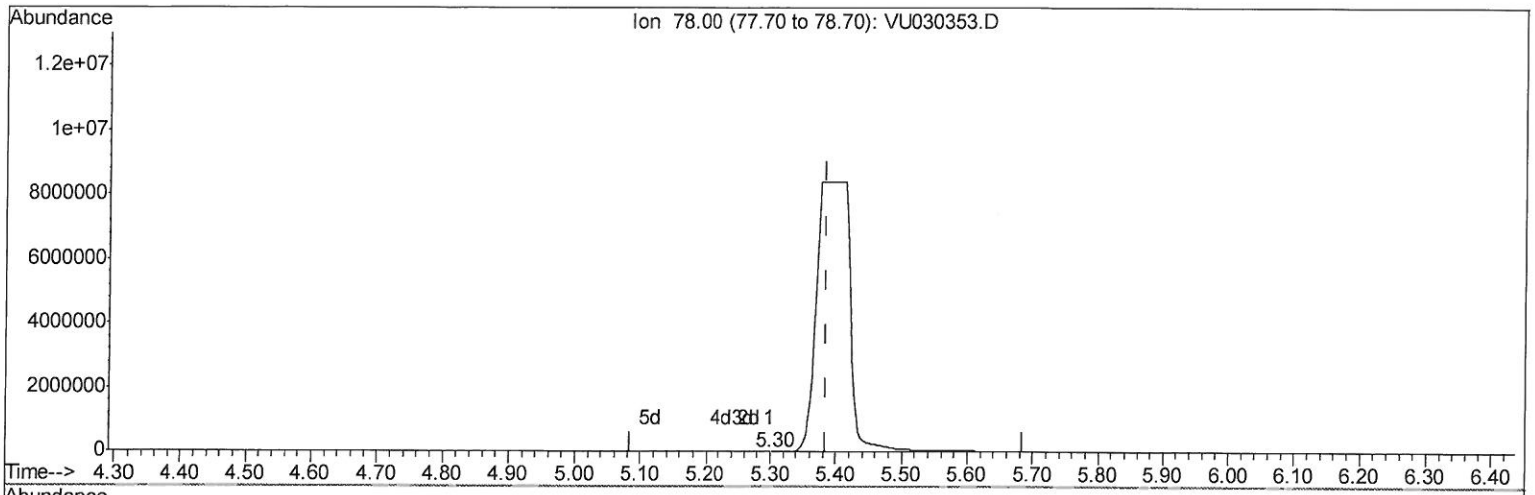
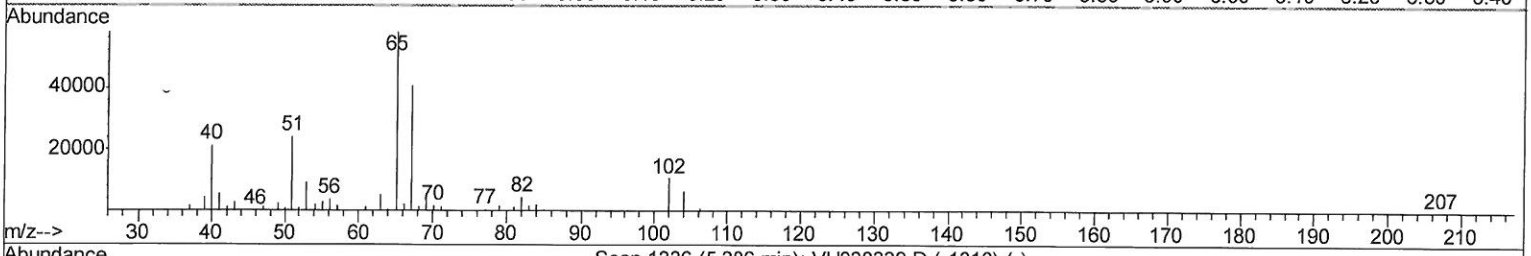
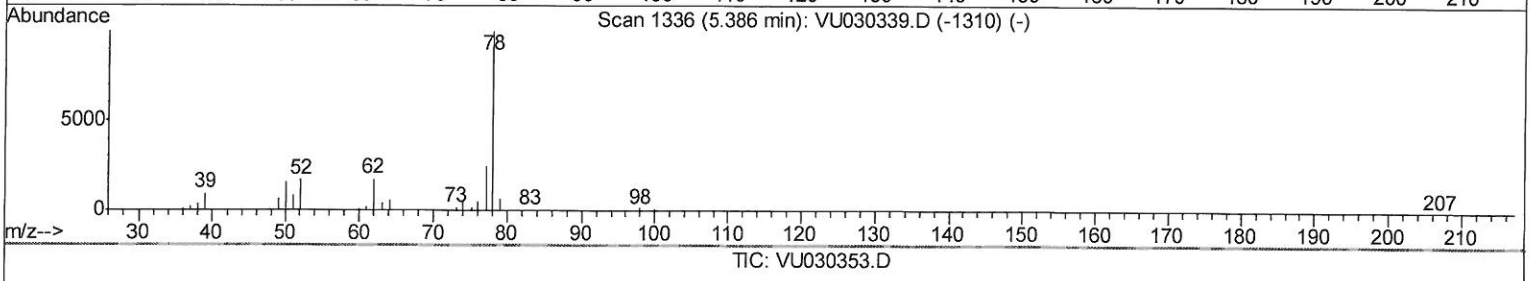
**ClientSampleId :**
DB6R5

**Manual Integrations APPROVED**
MMDadoda
3/24/2019 12:36:32 PM




TIC: VU030353.D

(33) Benzene (T)

5.299min (-0.087) 0.01ug/L

response 84

| 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 |

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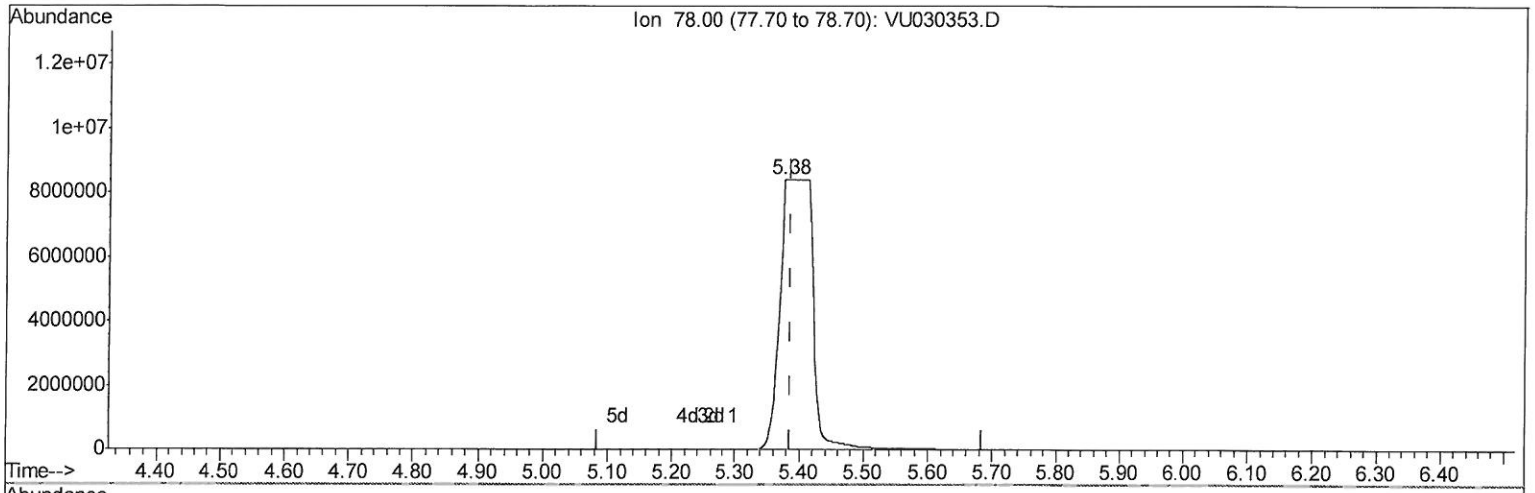
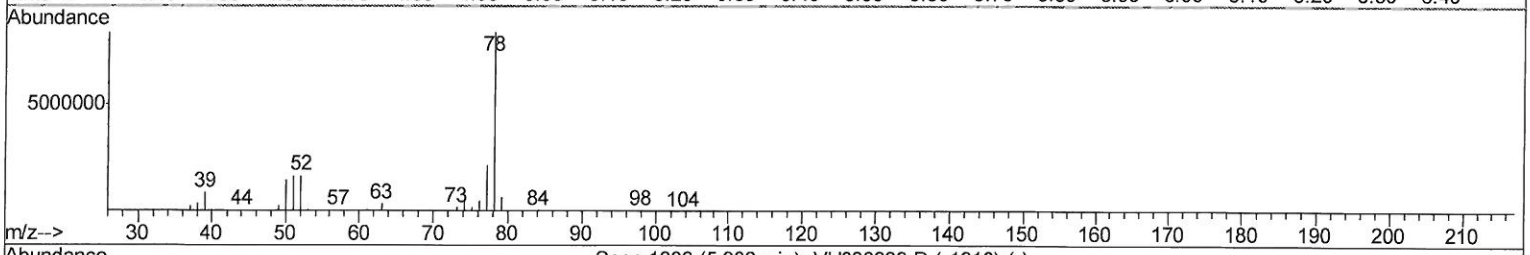
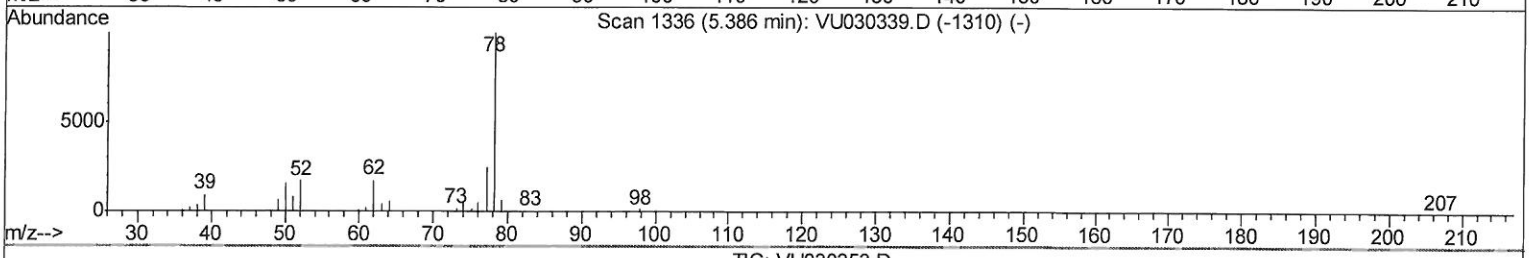
MSVOA_U
**ClientSampleId :**
DB6R5

**Manual Integrations APPROVED**
MMDadoda
3/24/2019 12:36:32 PM




TIC: VU030353.D

(33) Benzene (T)

5.376min (-0.010) 1943.75ug/L m

response 29233686

| 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 |

7 MC 3/27/19

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032319\

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**ClientSampleId :**
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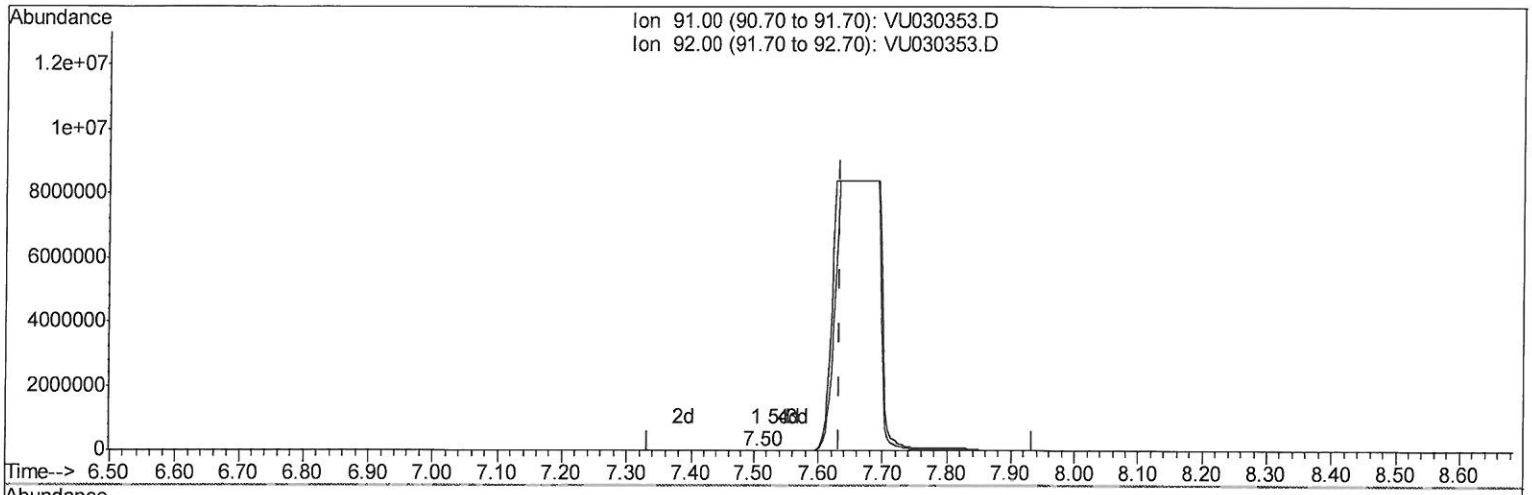
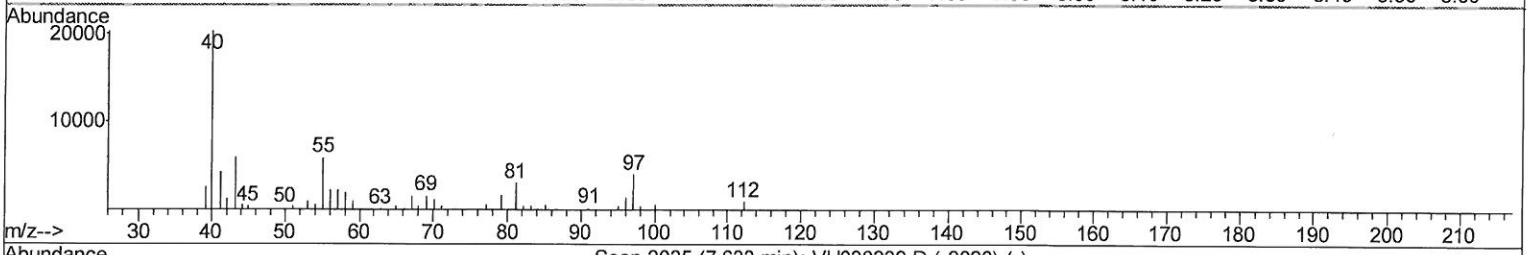
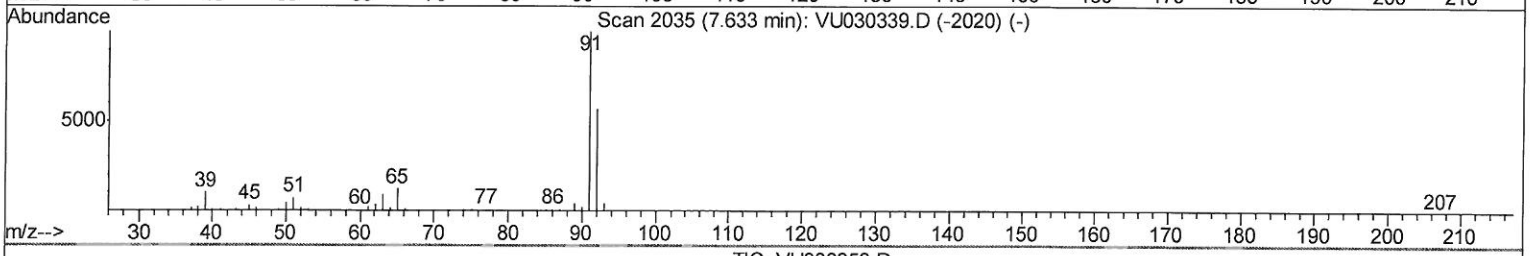
MMDadoda
3/24/2019 12:36:32 PM




TIC: VU030353.D

(42) Toluene (T)

7.505min (-0.129) 0.00ug/L

response 8

| Ion | Exp% | Act% |
|---|---|---|
| 91.00 | 100 | 100 |
| 92.00 | 56.70 | 55.56 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032319\

Quantitation Report (Qedit)

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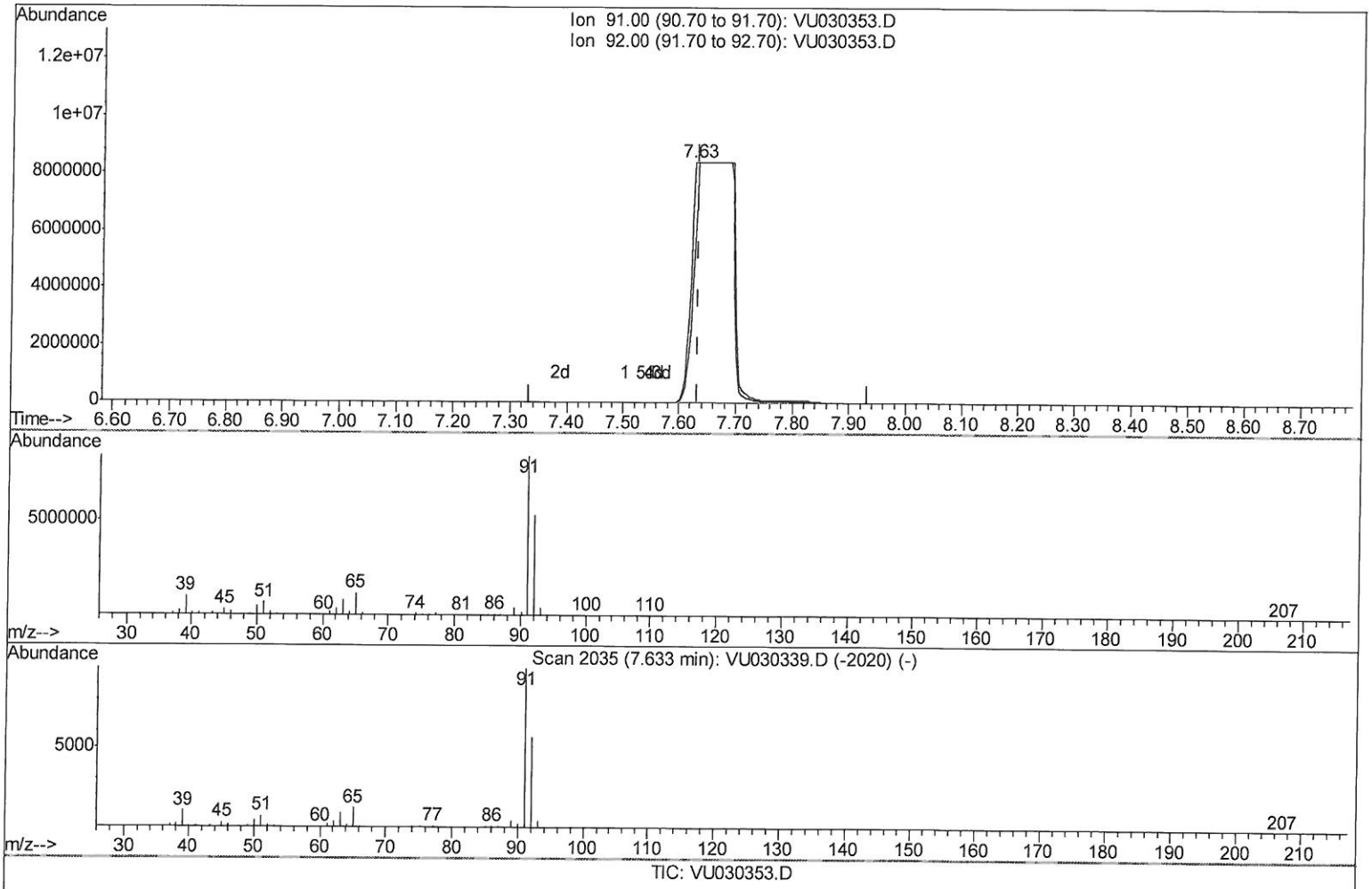
**Instrument :**
MSVOA_U
**ClientSampleId :**
DB6R5

**Manual Integrations APPROVED**
MMDadoda
3/24/2019 12:36:32 PM




TIC: VU030353.D

(42) Toluene (T)

7.627min (-0.007) 2673.52ug/L m

response 41730400

7 MD 3/27/19

| Ion | Exp% | Act% |
|---|---|---|
| 91.00 | 100 | 100 |
| 92.00 | 56.70 | 63.24 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032319\

Quantitation Report (Qedit)

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Operator : JC/SP
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ALS Vial : 19 Sample Multiplier: 1

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Quant Title : VOC Analysis
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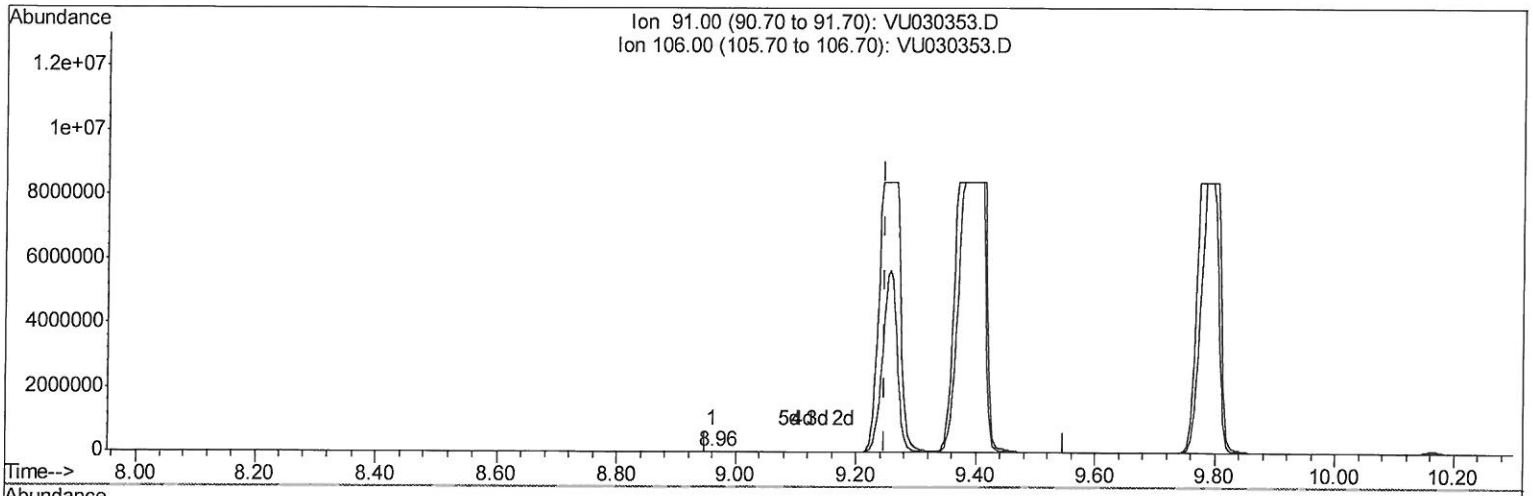
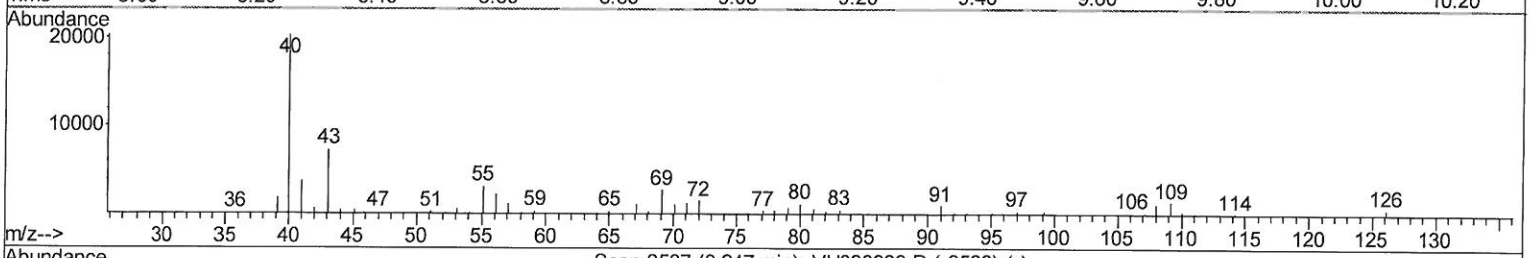
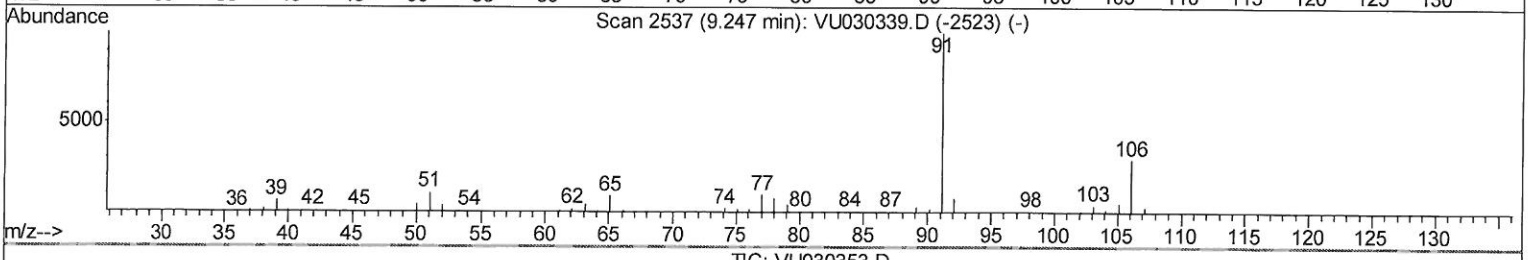
**Instrument :**
MSVOA_U
**ClientSampleId :**
DB6R5

**Manual Integrations APPROVED**
MMDadoda
3/24/2019 12:36:32 PM




TIC: VU030353.D

(52) Ethylbenzene (T)

8.961min (-0.286) 0.00ug/L

response 49

| Ion | Exp% | Act% |
|---|---|---|
| 91.00 | 100 | 100 |
| 106.00 | 29.40 | 26.03 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032319\

Quantitation Report (Qedit)

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Acq On : 23 Mar 2019 20:21
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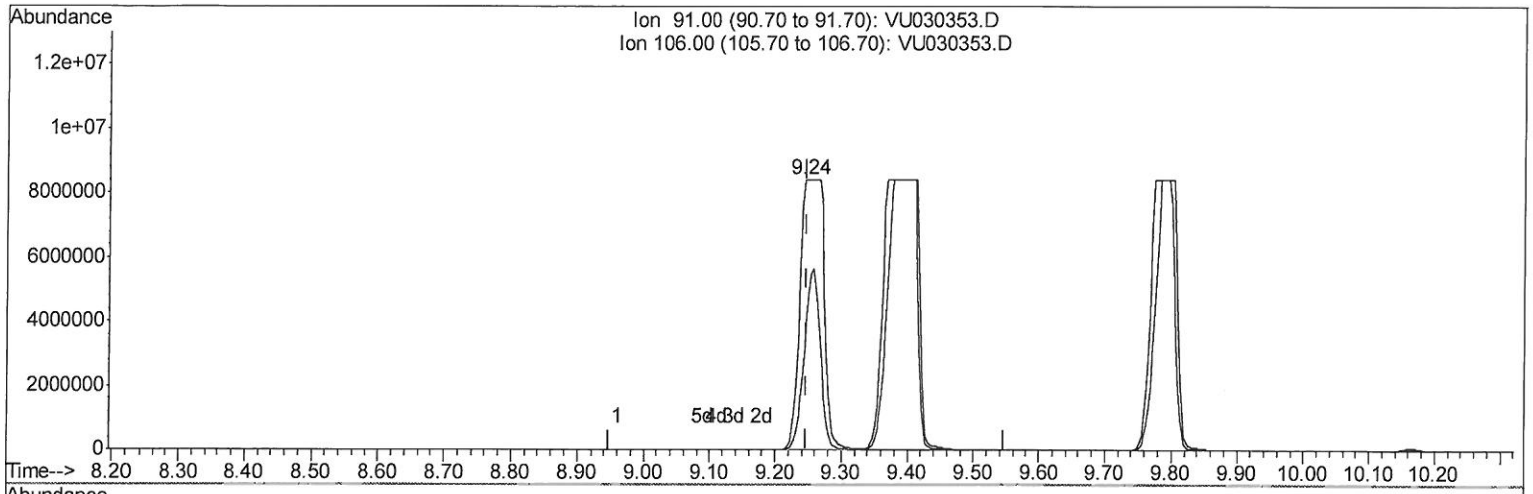
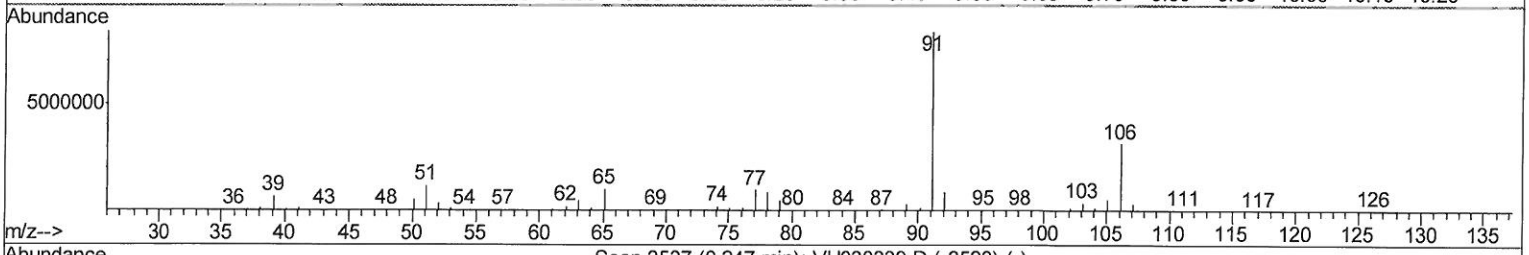
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 19 Sample Multiplier: 1

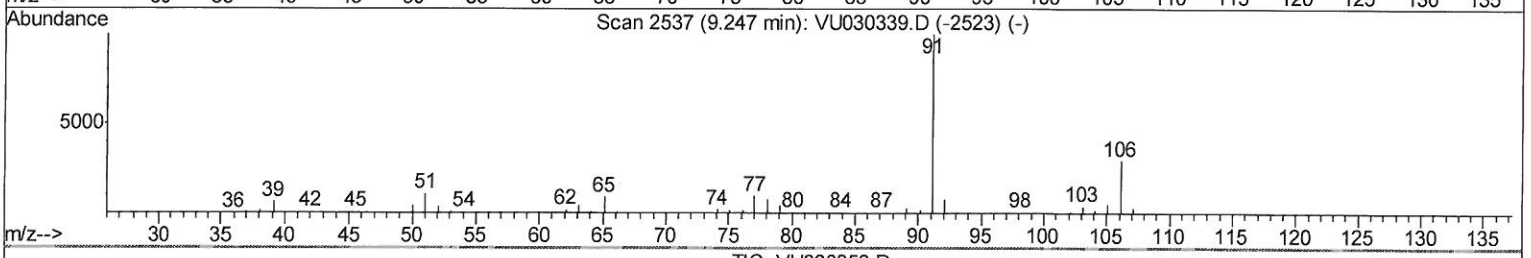
Quant Time: Mar 24 04:01:56 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
QLast Update : Sun Mar 24 02:05:17 2019
Response via : Initial Calibration

**Instrument :**
MSVOA_U
**ClientSampleId :**
DB6R5

**Manual Integrations APPROVED**
MMDadoda
3/24/2019 12:36:32 PM




TIC: VU030353.D

(52) Ethylbenzene (T)

9.244min (-0.003) 1231.53ug/L m

response 20823525

7 ME 3/27/19

| Ion | Exp% | Act% |
|---|---|---|
| 91.00 | 100 | 100 |
| 106.00 | 29.40 | 37.60 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032319\

Quantitation Report (Qedit)

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ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 24 04:01:56 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM032319WMA.M
Quant Title : VOC Analysis
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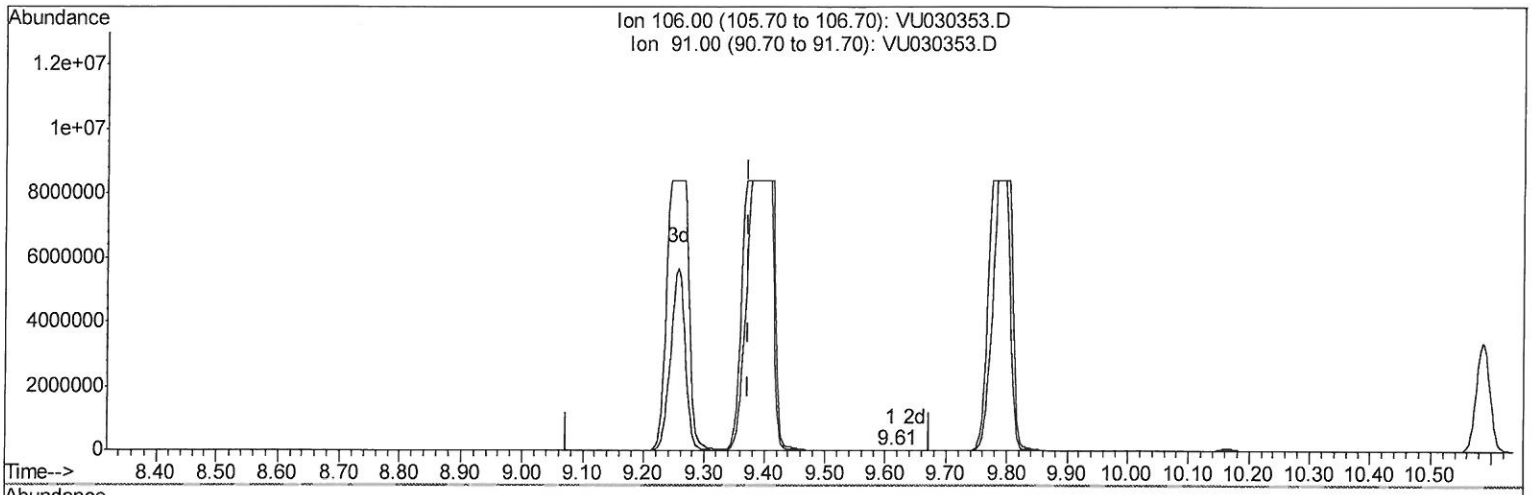
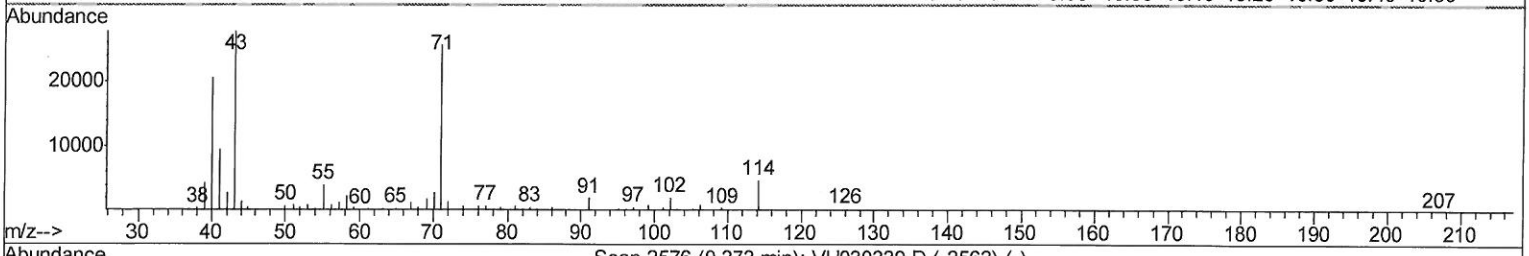
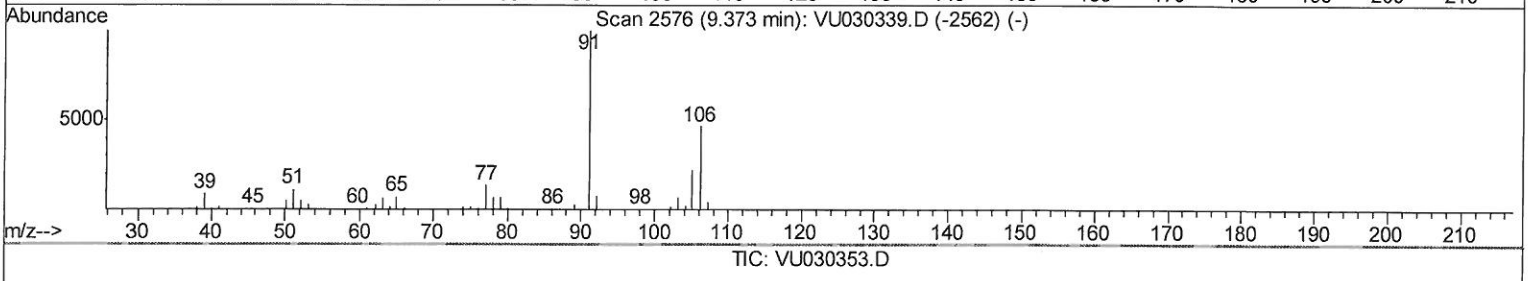
**Instrument :**
MSVOA_U
**ClientSampleId :**
DB6R5

**Manual Integrations APPROVED**
MMDadoda
3/24/2019 12:36:32 PM




TIC: VU030353.D

(53) m,p-Xylene (T)

9.611min (+0.238) 0.05ug/L

response 290

| Ion | Exp% | Act% |
|---|---|---|
| 106.00 | 100 | 100 |
| 91.00 | 216.00 | 247.90 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032319\

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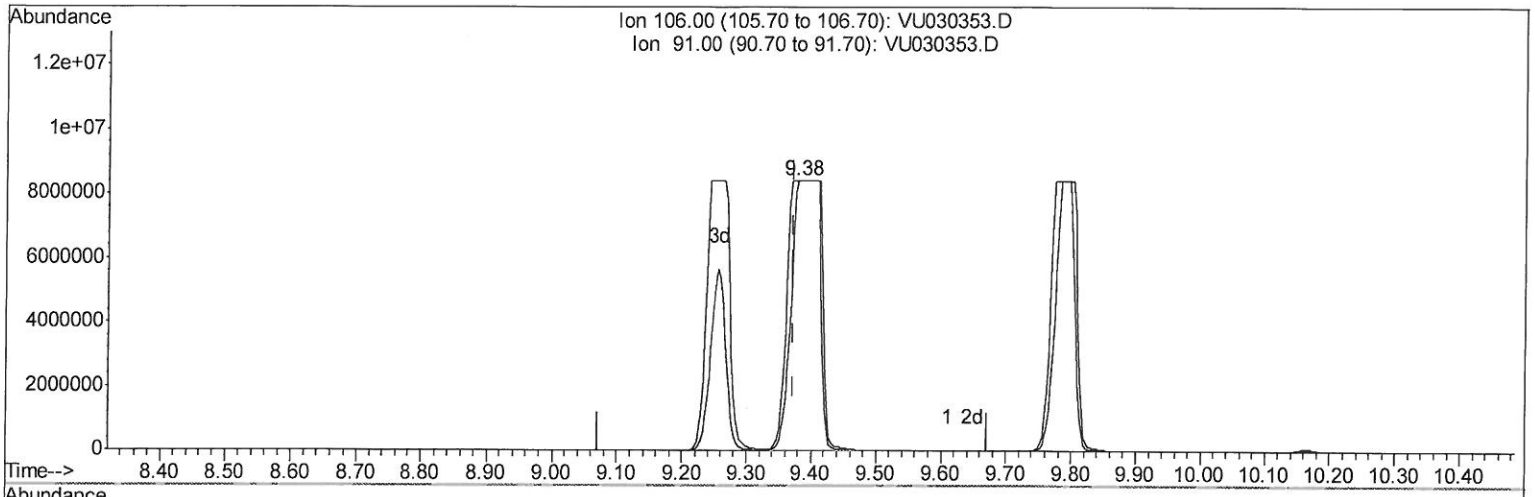
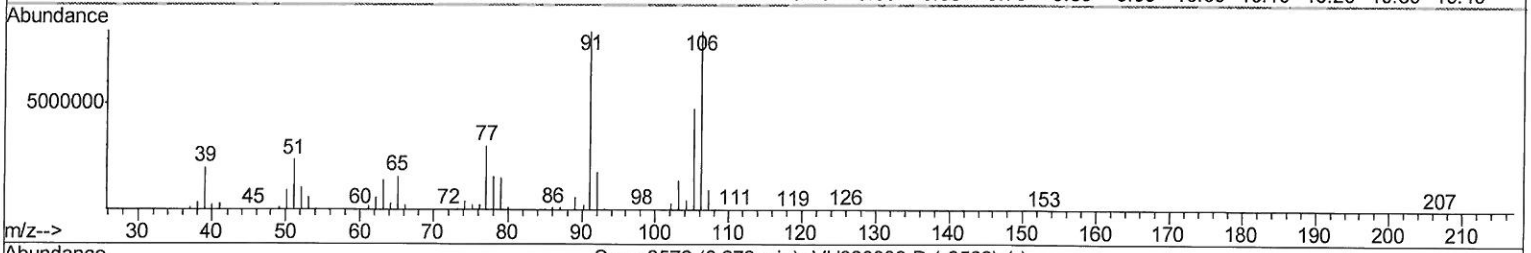
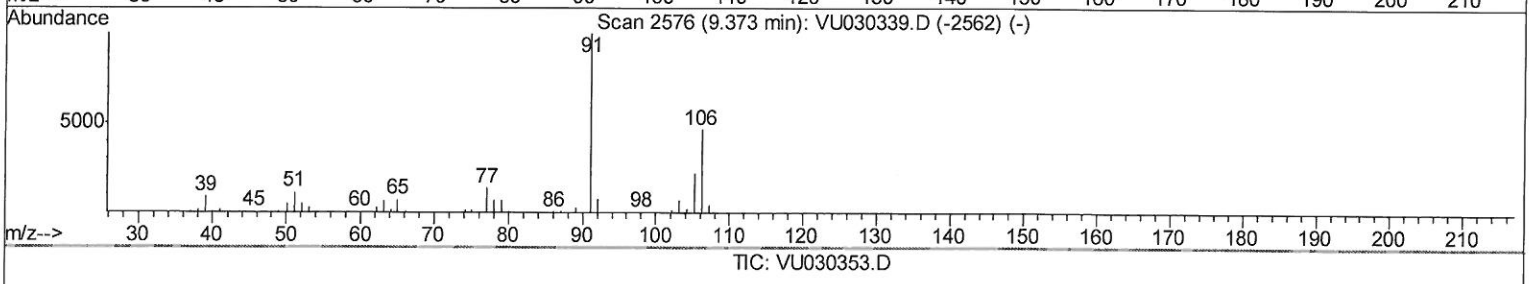
**Manual Integrations APPROVED**
MMDadoda
3/24/2019 12:36:32 PM




TIC: VU030353.D

(53) m,p-Xylene (T)

9.379min (+0.006) 4180.56ug/L m

response 25523324

7MC 3/24 #11:41

| Ion | Exp% | Act% |
|---|---|---|
| 106.00 | 100 | 100 |
| 91.00 | 216.00 | 100.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU032319\

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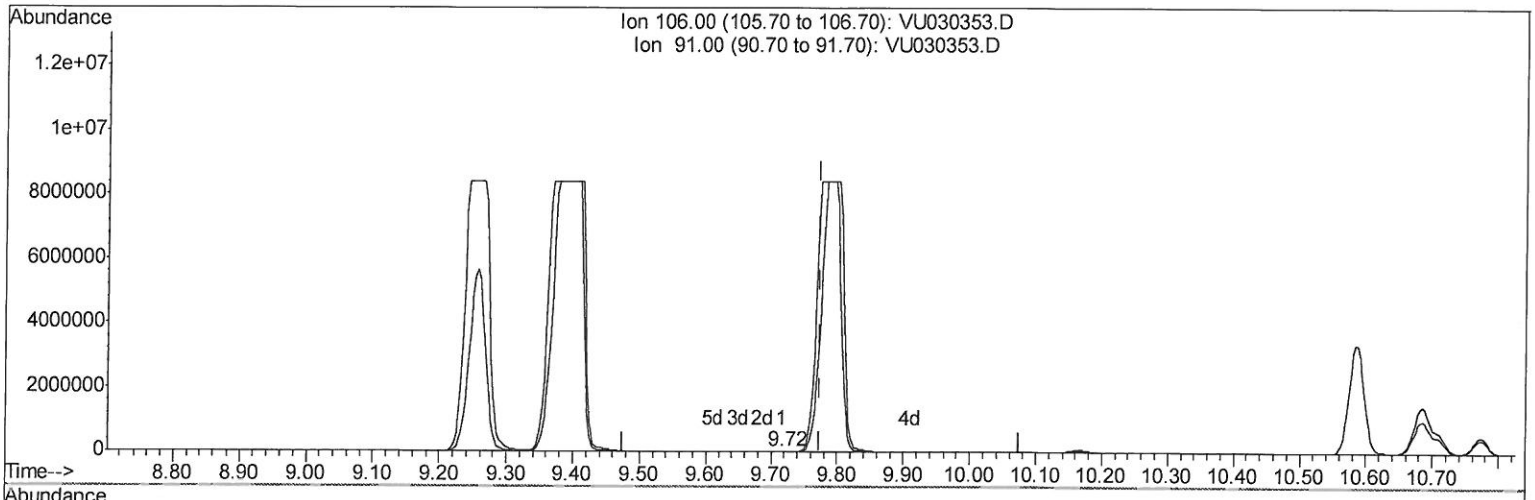
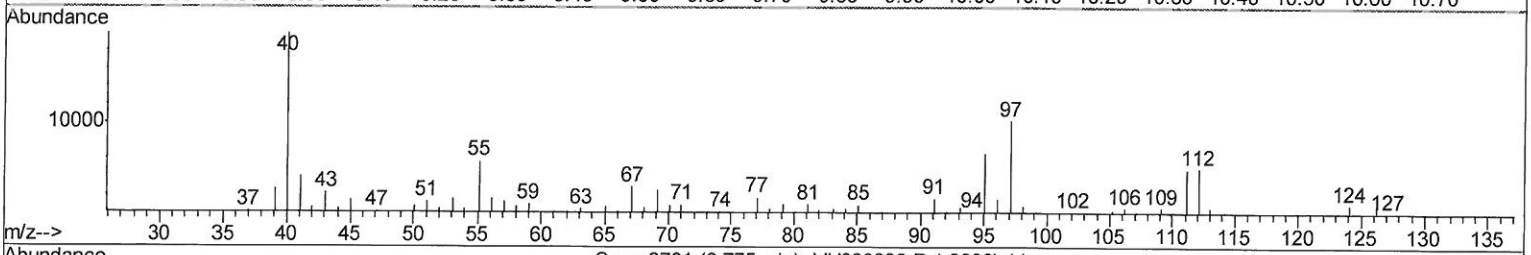
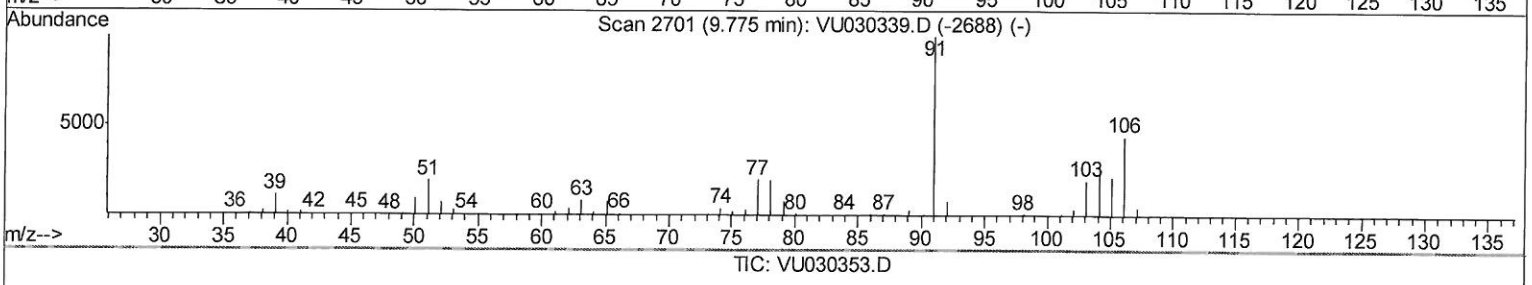
MMDadoda
3/24/2019 12:36:32 PM




TIC: VU030353.D

(54) o-xylene (T)

9.717min (-0.058) 0.02ug/L

response 100

| Ion | Exp% | Act% |
|---|---|---|
| 106.00 | 100 | 100 |
| 91.00 | 228.00 | 271.21 |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

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DB6R5

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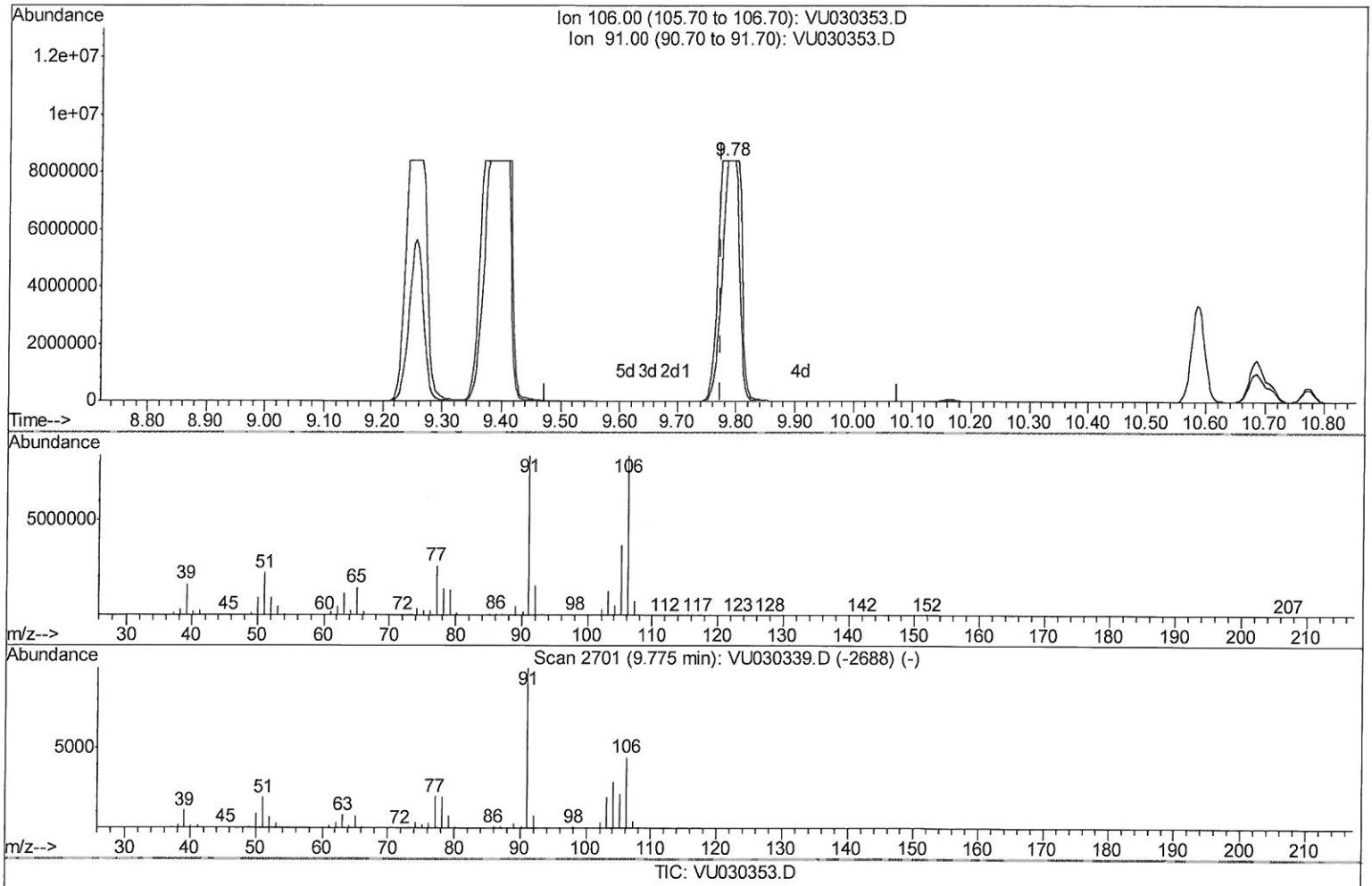
MMDadoda
3/24/2019 12:36:32 PM




TIC: VU030353.D

(54) o-xylene (T)

9.784min (+0.009) 2829.90ug/L m

response 16858052

7MO 3/27/19

| Ion | Exp% | Act% |
|---|---|---|
| 106.00 | 100 | 100 |
| 91.00 | 228.00 | 100.00# |
| 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 |

Quantitation Report (LSC Reviewed)

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**Instrument :** MSVOA_U
**ClientSampleId :** DB6R5

**Manual Integrations APPROVED**
MMDadoda
3/24/2019 12:36:32 PM

| Internal Standards | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 1) 1,4-Difluorobenzene | 5.88 | 114 | 449347 | 50.00 ug/L | 0.00 |
| 28) Chlorobenzene-d5 | 9.09 | 117 | 441815 | 50.00 ug/L | 0.00 |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152 | 235930 | 50.00 ug/L | 0.00 |
| **System Monitoring Compounds** | | | | | |
| 4) Vinyl Chloride-d3 | 1.40 | 65 | 146075 | 40.39 ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 135 | | Recovery = 80.78% | | |
| 7) Chloroethane-d5 | 1.68 | 69 | 124642 | 43.48 ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 130 | | Recovery = 86.96% | | |
| 11) 1,1-Dichloroethene-d2 | 2.27 | 63 | 213413 | 31.11 ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 125 | | Recovery = 62.22% | | |
| 21) 2-Butanone-d5 | 4.17 | 46 | 294375 | 86.59 ug/L | 0.00 |
| Spiked Amount 100.000 | Range 40 - 130 | | Recovery = 86.59% | | |
| 24) Chloroform-d | 4.65 | 84 | 261930 | 42.04 ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 84.08% | | |
| 26) 1,2-Dichloroethane-d4 | 5.31 | 65 | 180325 | 44.23 ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 88.46% | | |
| 32) Benzene-d6 | 5.34 | 84 | 560392 | 44.23 ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 125 | | Recovery = 88.46% | | |
| 36) 1,2-Dichloropropane-d6 | 6.33 | 67 | 194279 | 44.82 ug/L | 0.00 |
| Spiked Amount 50.000 | Range 70 - 120 | | Recovery = 89.64% | | |
| 41) Toluene-d8 | 7.57 | 98 | 535714 | 47.08 ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 94.16% | | |
| 43) trans-1,3-Dichloropropene- | 7.85 | 79 | 94156 | 46.19 ug/L | 0.00 |
| Spiked Amount 50.000 | Range 60 - 125 | | Recovery = 92.38% | | |
| 47) 2-Hexanone-d5 | 8.31 | 63 | 226431 | 96.39 ug/L | 0.00 |
| Spiked Amount 100.000 | Range 45 - 130 | | Recovery = 96.39% | | |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43 | 84 | 283308 | 45.67 ug/L | 0.00 |
| Spiked Amount 50.000 | Range 65 - 120 | | Recovery = 91.34% | | |
| 64) 1,2-Dichlorobenzene-d4 | 11.86 | 152 | 212932 | 45.04 ug/L | 0.00 |
| Spiked Amount 50.000 | Range 80 - 120 | | Recovery = 90.08% | | |
| **Target Compounds** | | | | | Qvalue |
| 6) Bromomethane | 1.63 | 94 | 12345 | 5.118 ug/L | 99 |
| 22) 2-Butanone | 4.27 | 43 | 39930 | 9.609 ug/L | 91 |
| 29) Cyclohexane | 4.99 | 56 | 1922126 | 287.484 ug/L | 97 |
| 33) Benzene | 5.38 | 78 | 29233686m | 1943.750 ug/L | |
| 35) Methylcyclohexane | 6.41 | 83 | 1169346 | 192.197 ug/L | 92 |
| 42) Toluene | 7.63 | 91 | 41730400m | 2673.520 ug/L | |
| 48) 2-Hexanone | 8.36 | 43 | 135198 | 23.009 ug/L # | 85 |
| 50) 1,2-Dibromoethane | 8.58 | 107 | 716454 | 185.114 ug/L | 100 |
| 52) Ethylbenzene | 9.24 | 91 | 20823525m | 1231.534 ug/L | |
| 53) m,p-Xylene | 9.38 | 106 | 25523324m | 4180.556 ug/L | |
| 54) o-xylene | 9.78 | 106 | 16858052m | 2829.902 ug/L | |
| 56) Isopropylbenzene | 10.16 | 105 | 1468116 | 93.074 ug/L | 100 |

MD 3/27/19

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