

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092019\  
 Data File : VU034685.D  
 Acq On : 20 Sep 2019 13:47  
 Operator : JC/SP  
 Sample : K4982-01  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0AT7

Manual Integrations  
 APPROVED

MMDadoda  
 9/23/2019 9:32:55 AM

Quant Time: Sep 21 03:42:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Sat Sep 21 02:29:10 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 473101   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 447062   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.46 | 152  | 193286   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 209284   | 43.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 86.42%  |
| 7) Chloroethane-d5             | 1.67    | 69    | 172802   | 46.16    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 92.32%  |
| 11) 1,1-Dichloroethene-d2      | 2.26    | 63    | 285207m  | 34.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 69.54%  |
| 21) 2-Butanone-d5              | 4.15    | 46    | 391418   | 105.45   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 105.45% |
| 24) Chloroform-d               | 4.62    | 84    | 344696   | 48.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.90%  |
| 26) 1,2-Dichloroethane-d4      | 5.29    | 65    | 253867   | 49.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.10%  |
| 32) Benzene-d6                 | 5.32    | 84    | 694079   | 50.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.18% |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 246788   | 50.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 101.90% |
| 41) Toluene-d8                 | 7.54    | 98    | 646684   | 49.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.10%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 118187   | 50.95    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 101.90% |
| 47) 2-Hexanone-d5              | 8.29    | 63    | 253903   | 104.38   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 104.38% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41   | 84    | 324482   | 48.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.56%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.84   | 152   | 206940   | 51.06    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.12% |

## Target Compounds

|                            |      |     |       |       | Ovalue   |
|----------------------------|------|-----|-------|-------|----------|
| 13) Acetone                | 2.31 | 43  | 37508 | 8.686 | ug/L 100 |
| 20) cis-1,2-Dichloroethene | 4.20 | 96  | 6087m | 1.538 | ug/L     |
| 33) Benzene                | 5.37 | 78  | 24654 | 1.590 | ug/L 100 |
| 42) Toluene                | 7.62 | 91  | 59187 | 3.532 | ug/L 97  |
| 46) Tetrachloroethene      | 8.21 | 164 | 2931  | 1.088 | ug/L 89  |
| 53) m,p-Xylene             | 9.35 | 106 | 9542  | 1.428 | ug/L 89  |
| 54) o-xylene               | 9.76 | 106 | 5907  | 0.894 | ug/L 85  |

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

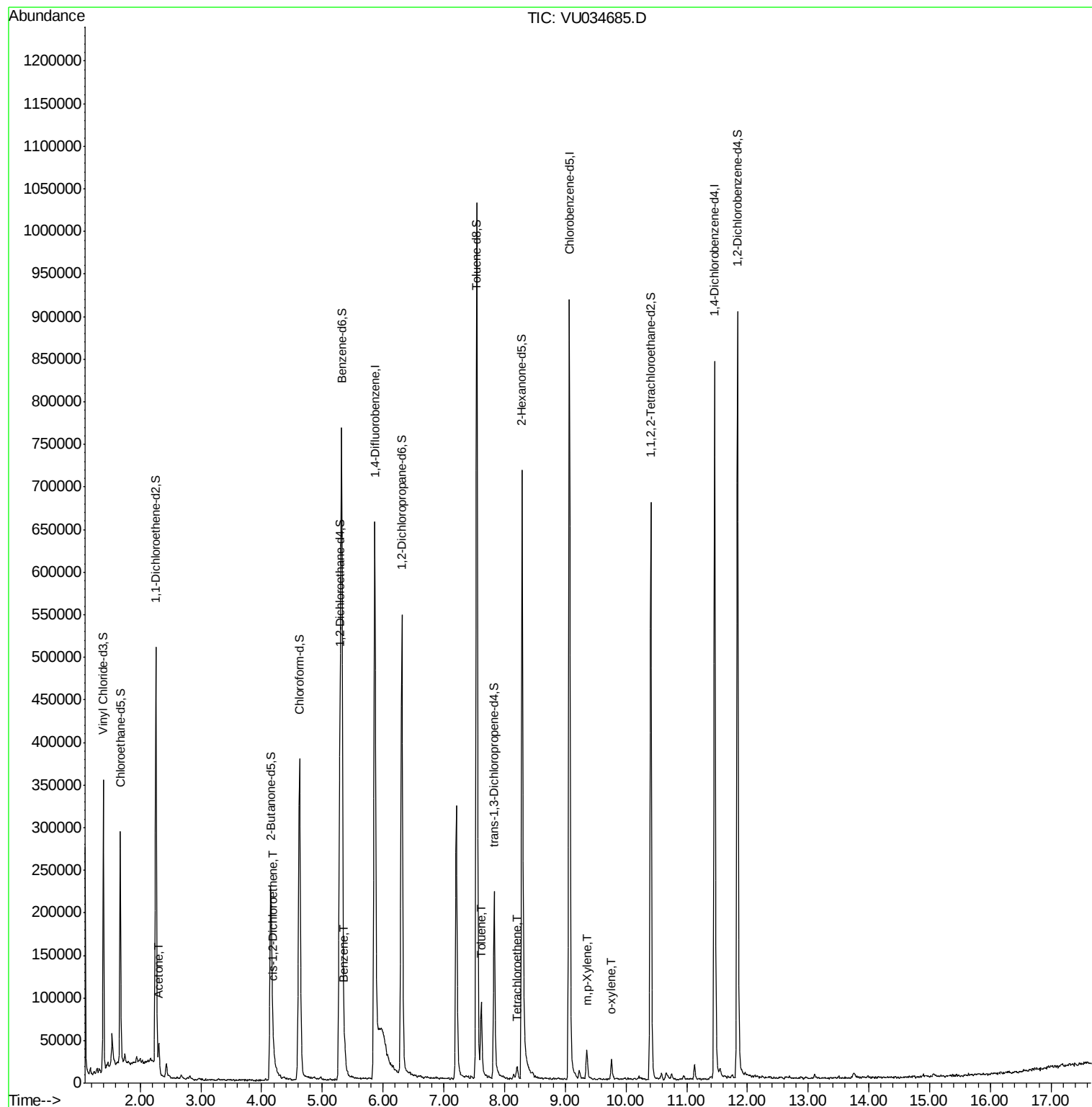
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092019\  
Data File : VU034685.D  
Acq On : 20 Sep 2019 13:47  
Operator : JC/SP  
Sample : K4982-01  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 9 Sample Multiplier: 1

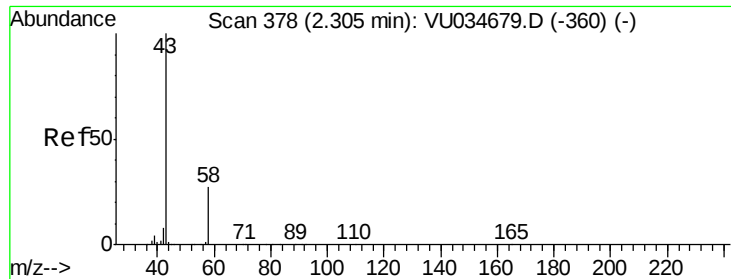
Instrument :  
MSVOA\_U  
ClientSampleId :  
C0AT7

Quant Time: Sep 21 03:42:57 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Sep 21 02:29:10 2019  
Response via : Initial Calibration

Manual Integrations  
APPROVED

MMDadoda  
9/23/2019 9:32:55 AM





#13

Acetone

Concen: 8.686 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VU034685.D

Acq: 20 Sep 2019 13:47

Instrument :

MSVOA\_U

ClientSampleId :

C0AT7

Tot Ion: 43 Resp: 37508

Ion Ratio Lower Upper

43 100

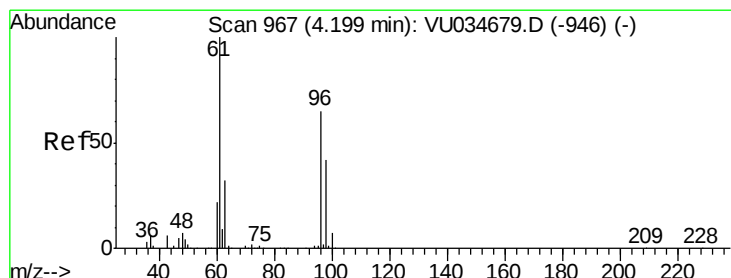
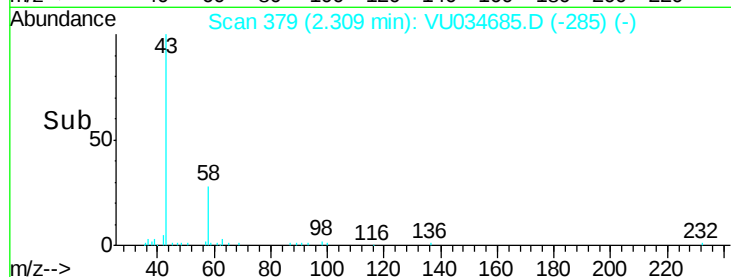
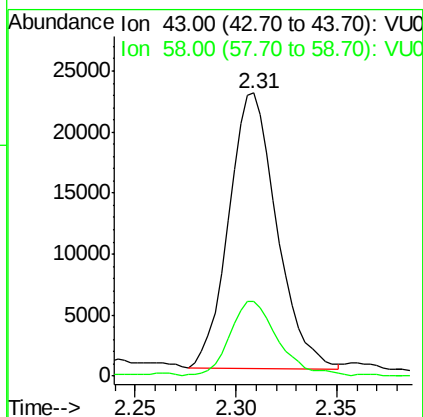
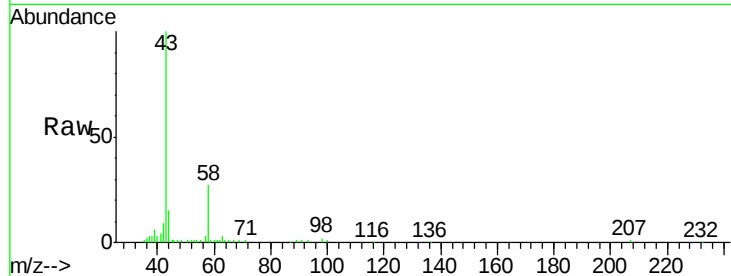
58 26.7 0.0 53.4

Manual Integrations

APPROVED

MMDadoda

9/23/2019 9:32:55 AM



#20

cis-1,2-Dichloroethene

Concen: 1.538 ug/L m

RT: 4.20 min Scan# 966

Delta R.T. -0.00 min

Lab File: VU034685.D

Acq: 20 Sep 2019 13:47

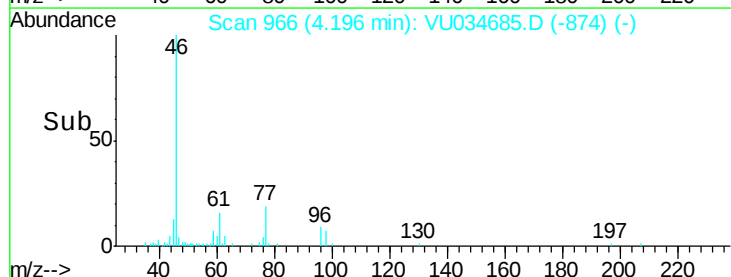
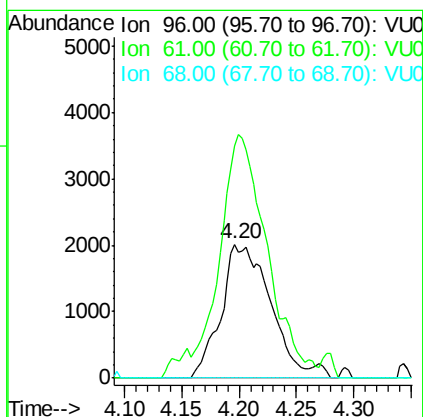
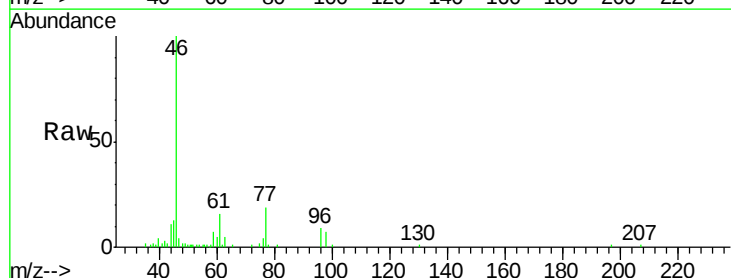
Tgt Ion: 96 Resp: 6087

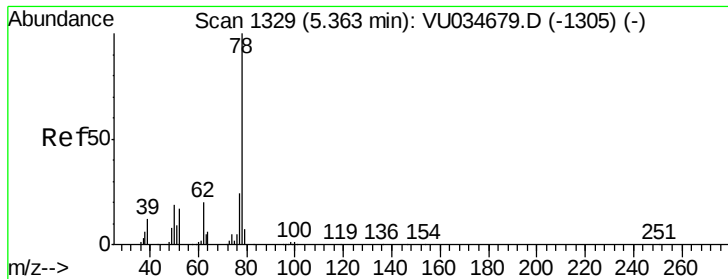
Ion Ratio Lower Upper

96 100

61 173.1 108.8 202.2

68 0.0 0.0 0.0





#33

Benzene

Concen: 1.590 ug/L

RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VU034685.D

Acq: 20 Sep 2019 13:47

Instrument :

MSVOA\_U

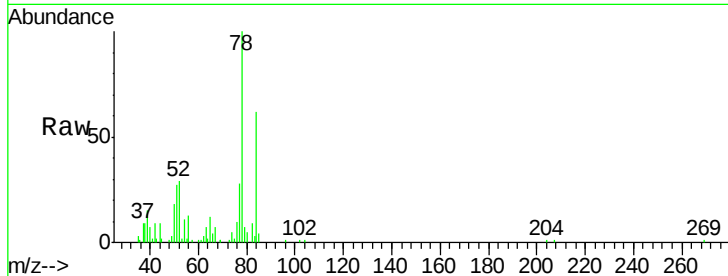
ClientSampleId :

C0AT7

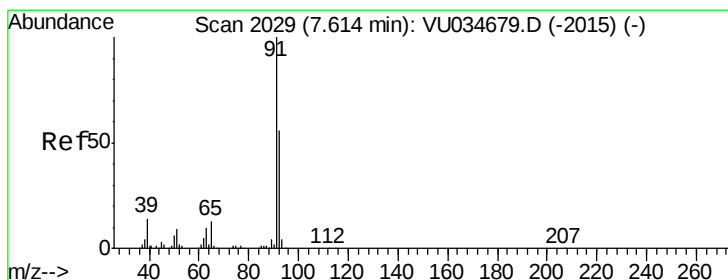
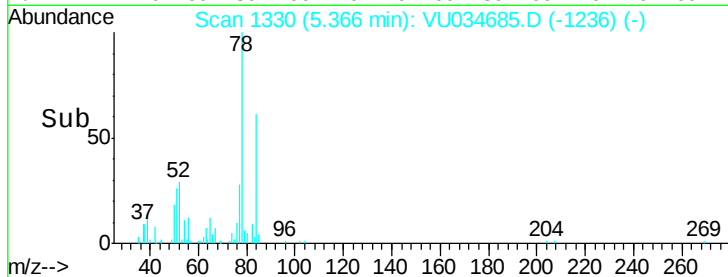
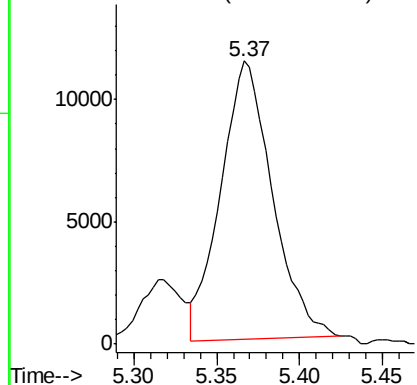
Tgt Ion: 78 Resp: 24654

Manual Integrations  
APPROVED

MMDadoda  
9/23/2019 9:32:55 AM



Abundance Ion 78.00 (77.70 to 78.70): VU0



#42

Toluene

Concen: 3.532 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU034685.D

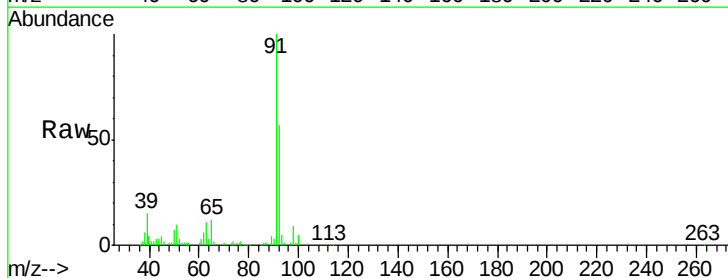
Acq: 20 Sep 2019 13:47

Tgt Ion: 91 Resp: 59187

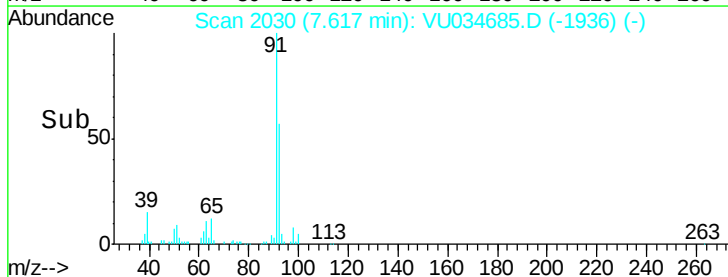
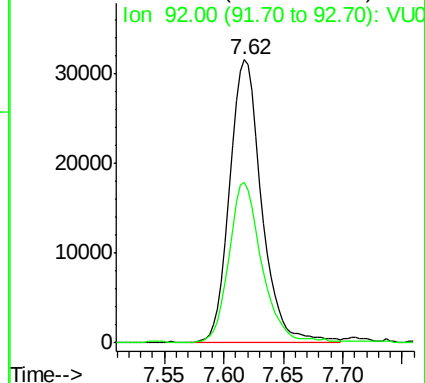
Ion Ratio Lower Upper

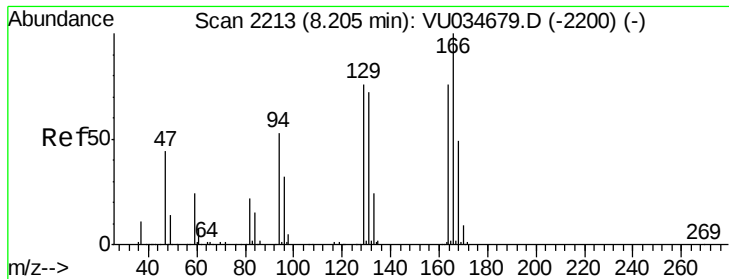
91 100

92 56.6 38.2 71.0



Abundance Ion 91.00 (90.70 to 91.70): VU0





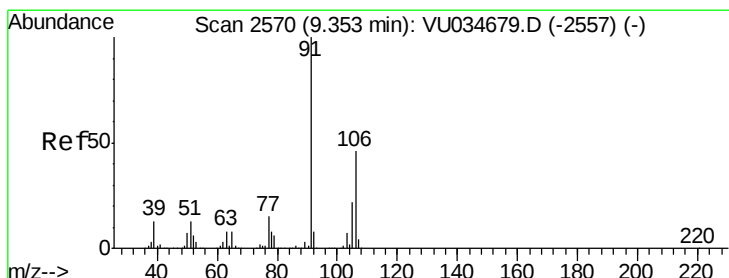
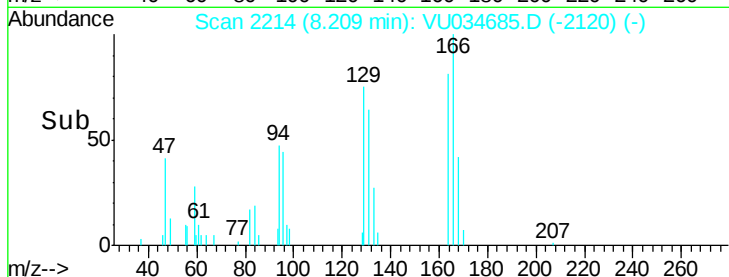
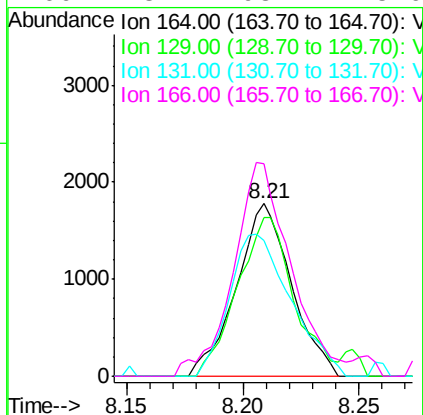
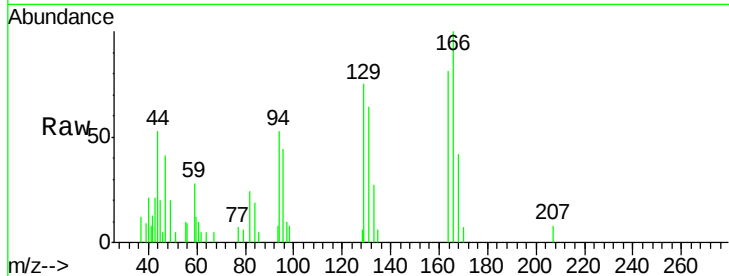
#46  
Tetrachloroethene  
Concen: 1.088 ug/L  
RT: 8.21 min Scan# 2214  
Delta R.T. 0.00 min  
Lab File: VU034685.D  
Acq: 20 Sep 2019 13:47

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0AT7

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 164   | Resp: | 2931  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 92.2  | 71.9  | 133.5 |
| 131      | 79.0  | 66.3  | 123.1 |
| 166      | 123.1 | 93.4  | 173.6 |

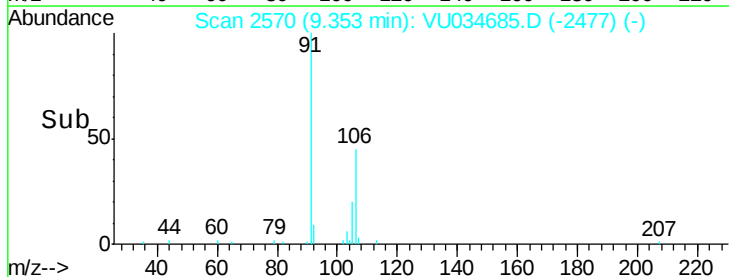
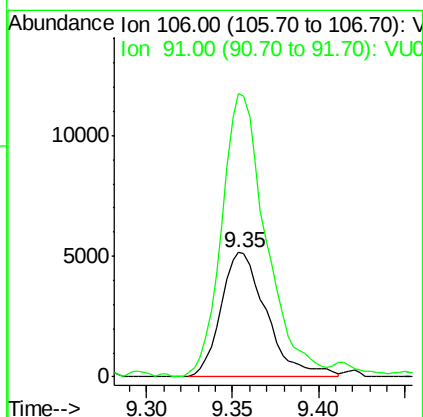
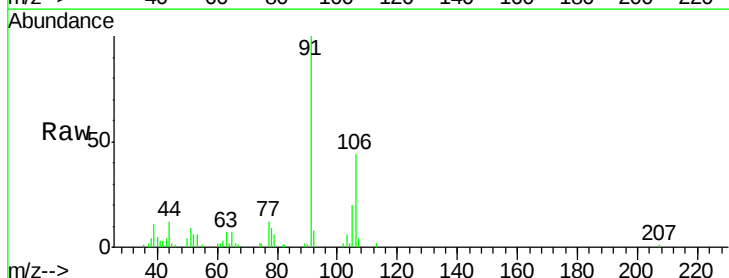
Manual Integrations  
APPROVED

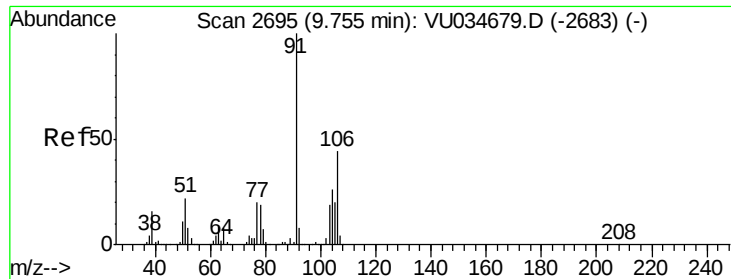
MMDadoda  
9/23/2019 9:32:55 AM



#53  
m,p-Xylene  
Concen: 1.428 ug/L  
RT: 9.35 min Scan# 2570  
Delta R.T. 0.00 min  
Lab File: VU034685.D  
Acq: 20 Sep 2019 13:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 106   | Resp: | 9542  |
| Ion      | Ratio | Lower | Upper |
| 106      | 100   |       |       |
| 91       | 227.3 | 146.9 | 272.7 |





#54  
o-xylene  
Concen: 0.894 ug/L  
RT: 9.76 min Scan# 2697  
Delta R.T. 0.01 min  
Lab File: VU034685.D  
Acq: 20 Sep 2019 13:47

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0AT7

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 100   |       |       |
| 91      | 197.9 | 155.6 | 289.0 |

Manual Integrations  
APPROVED

MMDadoda  
9/23/2019 9:32:55 AM

