

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040619\  
 Data File : VU030779.D  
 Acq On : 06 Apr 2019 06:24  
 Operator : JC/SP  
 Sample : K2249-09DL 10X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleID :  
 E3YE2DL

Manual Integrations  
 APPROVED

MMDadoda

4/8/2019 2:49:36 PM

Quant Time: Apr 08 01:51:03 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Apr 08 01:03:28 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 477556   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 465645   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 204654   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 217955   | 51.13    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 102.26% |
| 7) Chloroethane-d5             | 1.68    | 69    | 168733   | 52.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 104.30% |
| 11) 1,1-Dichloroethene-d2      | 2.27    | 63    | 298515m  | 38.72    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 77.44%  |
| 21) 2-Butanone-d5              | 4.17    | 46    | 353974   | 104.77   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 104.77% |
| 24) Chloroform-d               | 4.64    | 84    | 290122   | 44.55    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 89.10%  |
| 26) 1,2-Dichloroethane-d4      | 5.31    | 65    | 223056   | 50.20    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 100.40% |
| 32) Benzene-d6                 | 5.33    | 84    | 671007   | 49.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.72%  |
| 36) 1,2-Dichloropropane-d6     | 6.32    | 67    | 232593   | 49.93    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 99.86%  |
| 41) Toluene-d8                 | 7.56    | 98    | 568996   | 47.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 94.44%  |
| 43) trans-1,3-Dichloropropene- | 7.85    | 79    | 97729    | 46.01    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 92.02%  |
| 47) 2-Hexanone-d5              | 8.31    | 63    | 212303   | 99.71    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 99.71%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43   | 84    | 303882   | 48.36    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 96.72%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.86   | 152   | 194316   | 48.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 96.56%  |

#### Target Compounds

|                            |      |     |        |             | Ovalue |
|----------------------------|------|-----|--------|-------------|--------|
| 5) Vinyl chloride          | 1.40 | 62  | 15308  | 2.915 ug/L  | # 48   |
| 8) Chloroethane            | 1.69 | 64  | 83261  | 27.793 ug/L | 100    |
| 19) 1,1-Dichloroethane     | 3.44 | 63  | 437027 | 60.418 ug/L | 96     |
| 20) cis-1,2-Dichloroethene | 4.22 | 96  | 164381 | 42.474 ug/L | 97     |
| 30) 1,1,1-Trichloroethane  | 4.91 | 97  | 27447  | 4.837 ug/L  | 98     |
| 42) Toluene                | 7.64 | 91  | 17457  | 1.122 ug/L  | 97     |
| 46) Tetrachloroethene      | 8.22 | 164 | 3250   | 1.196 ug/L  | 91     |
| 52) Ethylbenzene           | 9.25 | 91  | 19477  | 1.149 ug/L  | 99     |
| 53) m,p-Xylene             | 9.37 | 106 | 14141  | 2.391 ug/L  | 99     |
| 54) o-xylene               | 9.77 | 106 | 11007  | 1.871 ug/L  | 90     |

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

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Sample : K2249-09DL 10X  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 36 Sample Multiplier: 1

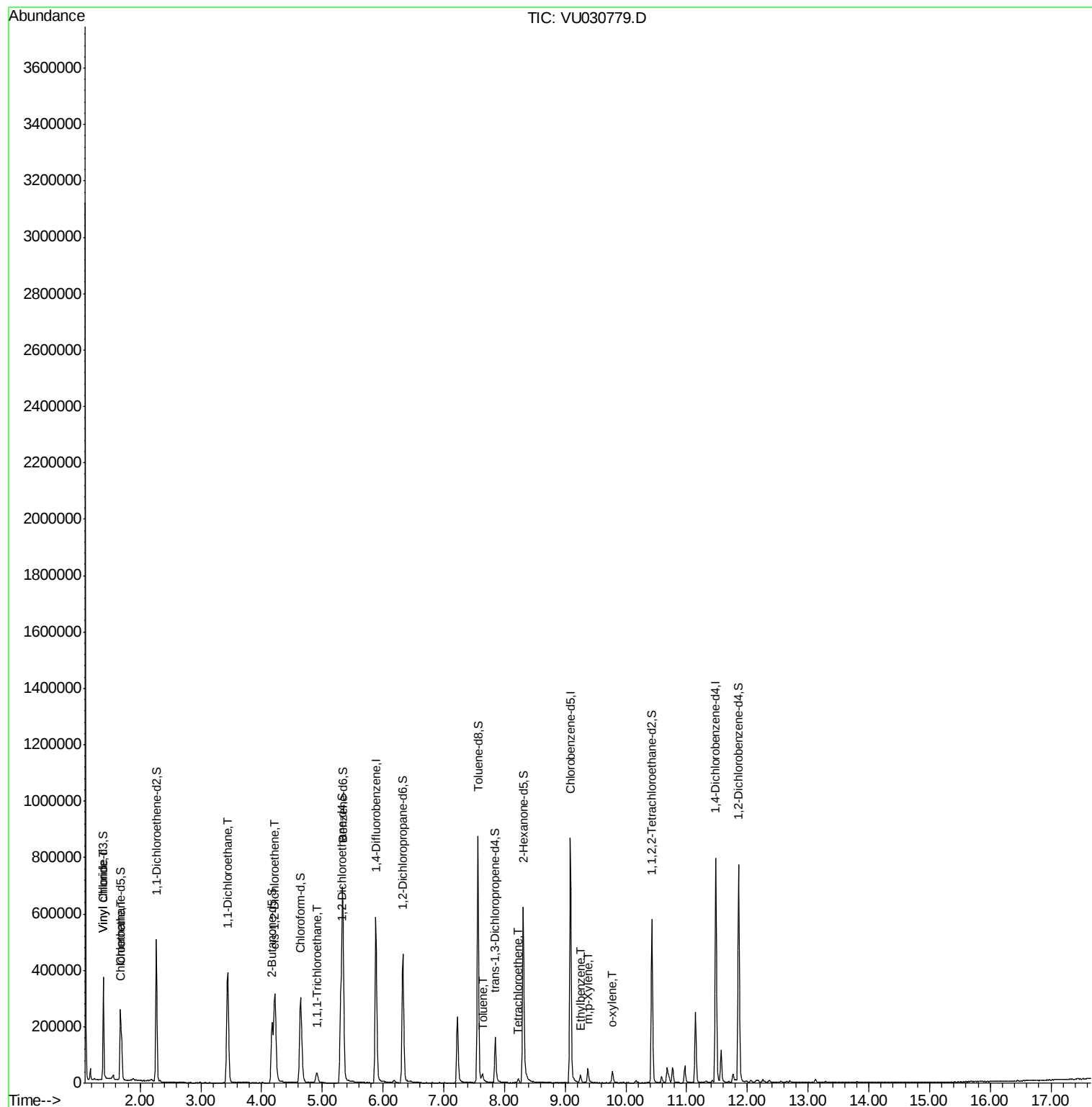
Instrument :  
MSVOA\_U  
ClientSampleId :  
E3YE2DL

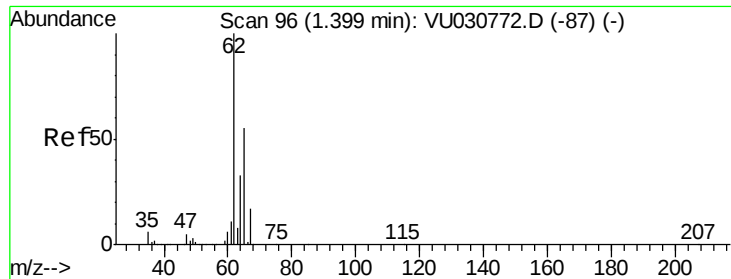
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Quant Time: Apr 08 01:51:03 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Apr 08 01:03:28 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.915 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU030779.D

Acq: 06 Apr 2019 06:24

Instrument :

MSVOA\_U

ClientSampleId :

E3YE2DL

Tot Ion: 62 Resp: 15308

Ion Ratio Lower Upper

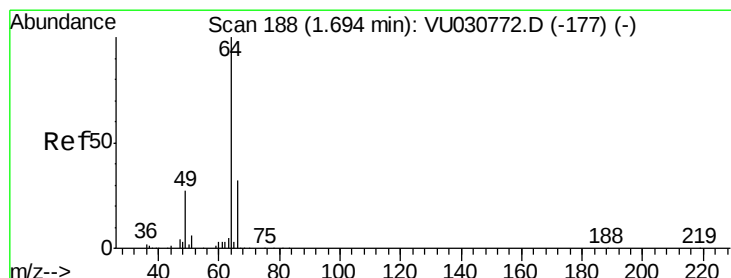
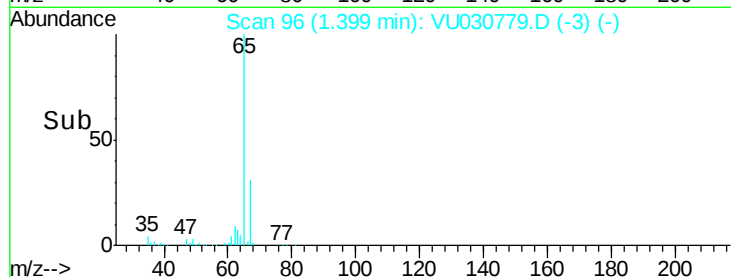
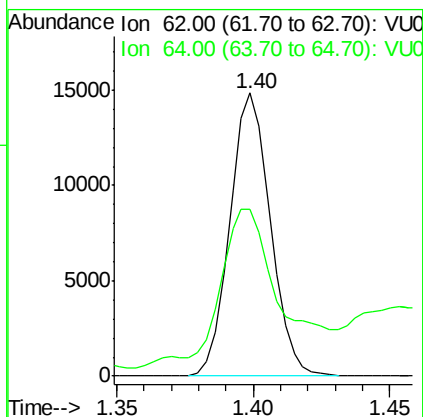
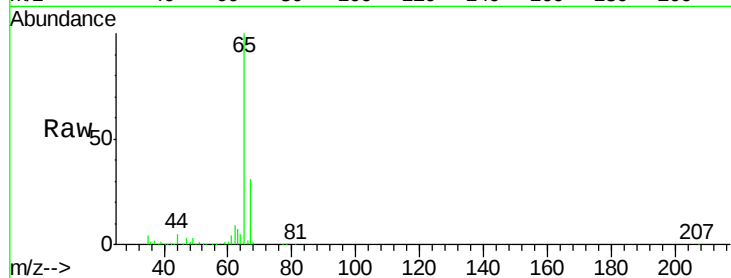
62 100

64 58.9 21.5 39.9#

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#8

Chloroethane

Concen: 27.793 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU030779.D

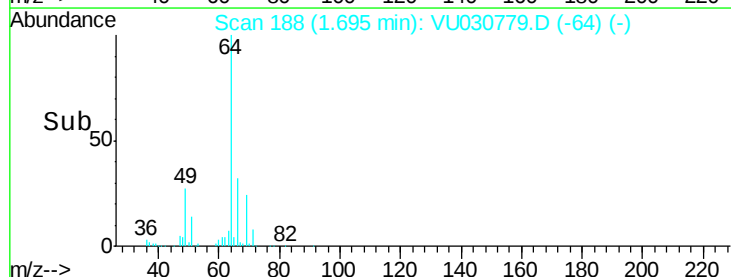
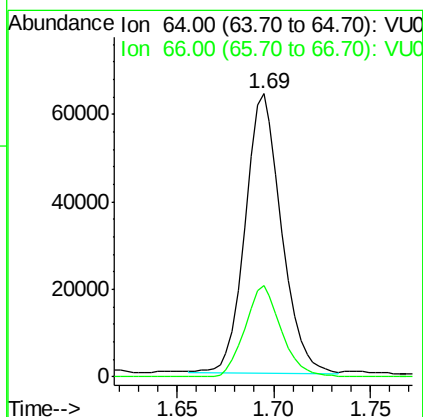
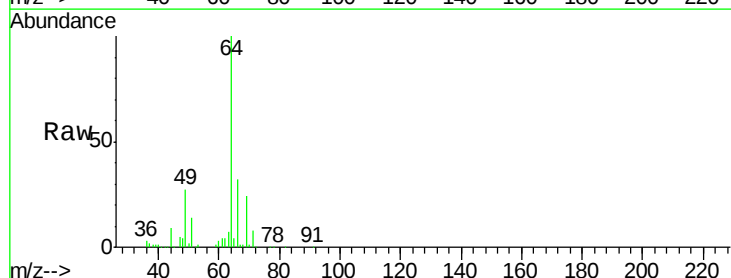
Acq: 06 Apr 2019 06:24

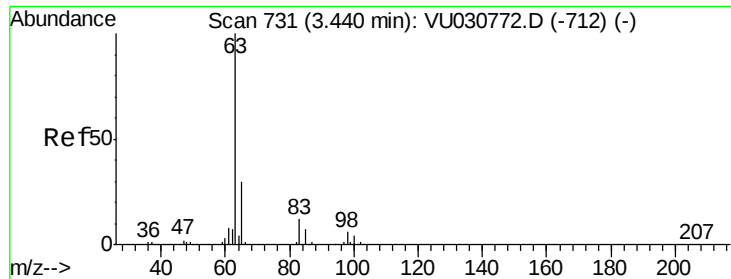
Tgt Ion: 64 Resp: 83261

Ion Ratio Lower Upper

64 100

66 32.1 22.4 41.6





#19  
 1,1-Dichloroethane  
 Concen: 60.418 ug/L  
 RT: 3.44 min Scan# 731  
 Delta R.T. 0.00 min  
 Lab File: VU030779.D  
 Acq: 06 Apr 2019 06:24

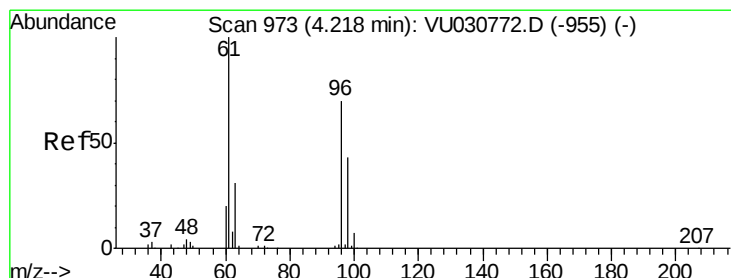
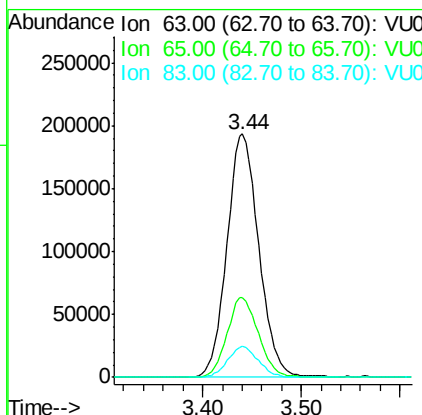
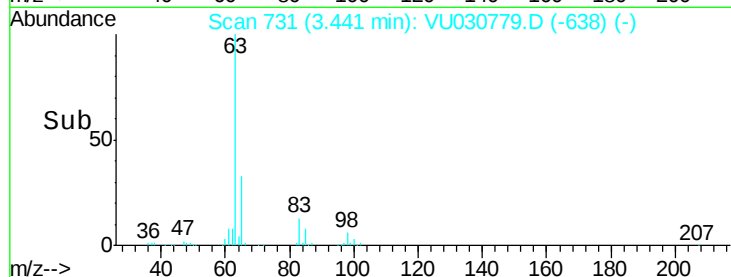
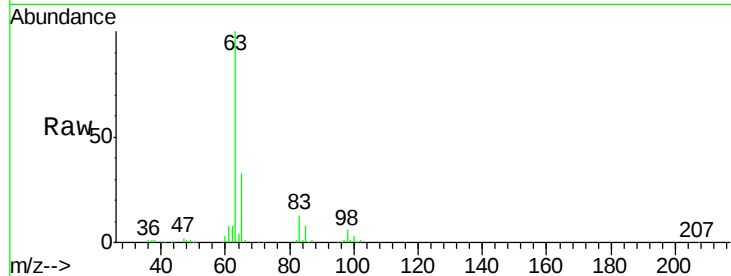
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 E3YE2DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 63    | Resp: | 437027 |
| Ion Ratio | Lower | Upper |        |
| 63        | 100   |       |        |
| 65        | 32.8  | 21.4  | 39.8   |
| 83        | 13.0  | 8.5   | 15.7   |

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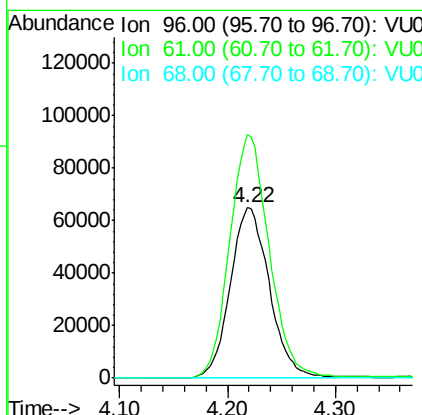
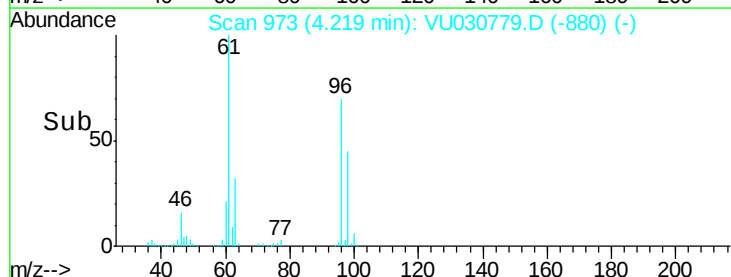
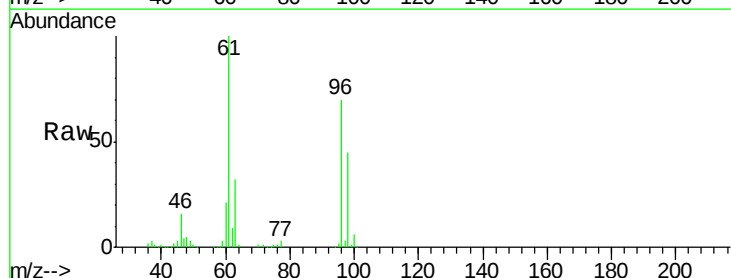
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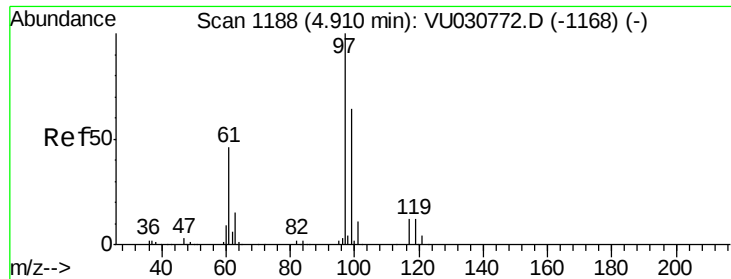
4/8/2019 2:49:36 PM



#20  
 cis-1,2-Dichloroethene  
 Concen: 42.474 ug/L  
 RT: 4.22 min Scan# 973  
 Delta R.T. 0.00 min  
 Lab File: VU030779.D  
 Acq: 06 Apr 2019 06:24

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 96    | Resp: | 164381 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 143.0 | 102.9 | 191.1  |
| 68        | 0.0   | 0.0   | 0.0    |





#30  
 1,1,1-Trichloroethane  
 Concen: 4.837 ug/L  
 RT: 4.91 min Scan# 1188  
 Delta R.T. 0.00 min  
 Lab File: VU030779.D  
 Acq: 06 Apr 2019 06:24

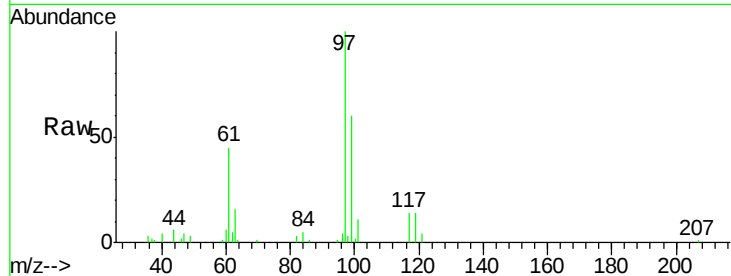
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E3YE2DL

| Tot Ion   | 97    | Resp  | 27447 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 97        | 100   |       |       |
| 99        | 65.2  | 51.4  | 77.2  |
| 61        | 48.1  | 37.1  | 55.7  |

Manual Integrations  
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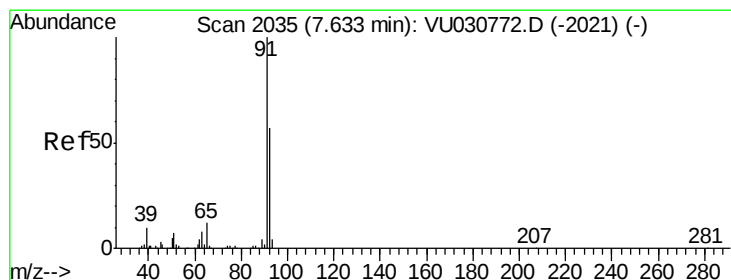
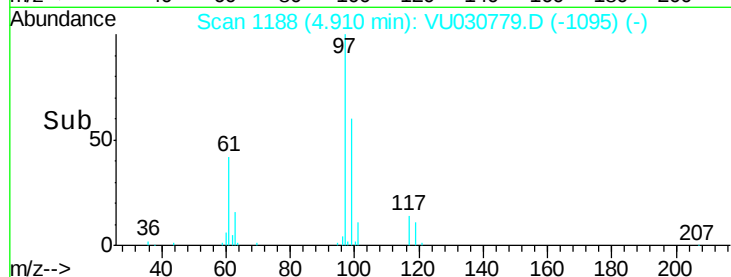
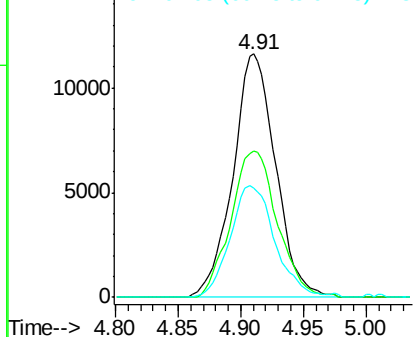


Abundance

Ion 97.00 (96.70 to 97.70): VU030779.D (-1095) (-)

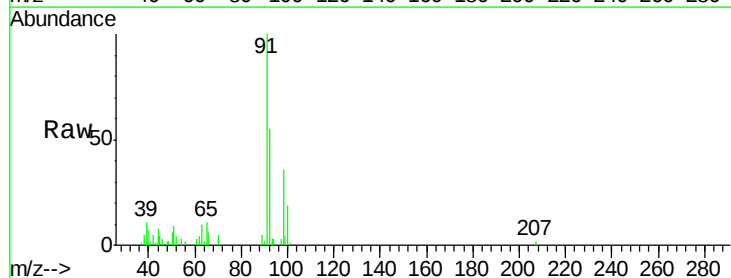
Ion 99.00 (98.70 to 99.70): VU030779.D (-1095) (-)

Ion 61.05 (60.75 to 61.75): VU030779.D (-1095) (-)



#42  
 Toluene  
 Concen: 1.122 ug/L  
 RT: 7.64 min Scan# 2037  
 Delta R.T. 0.01 min  
 Lab File: VU030779.D  
 Acq: 06 Apr 2019 06:24

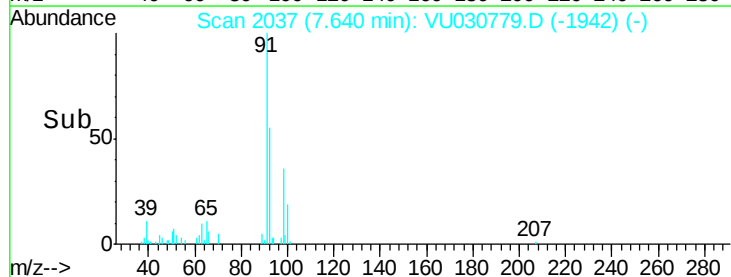
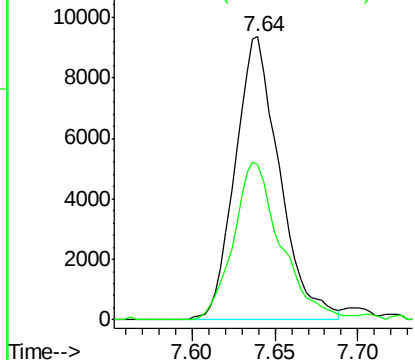
| Tgt Ion   | 91    | Resp  | 17457 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 92        | 55.0  | 40.0  | 74.4  |

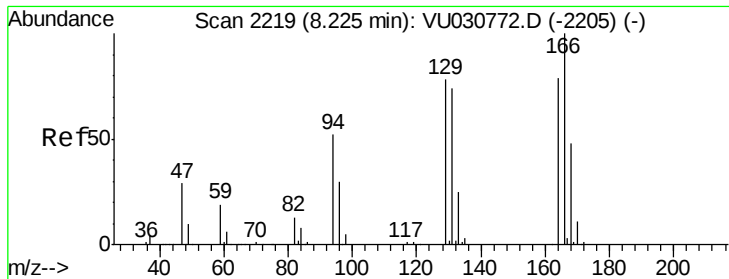


Abundance

Ion 91.00 (90.70 to 91.70): VU030779.D (-1942) (-)

Ion 92.00 (91.70 to 92.70): VU030779.D (-1942) (-)





#46

Tetrachloroethene

Concen: 1.196 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU030779.D

Acq: 06 Apr 2019 06:24

Instrument :

MSVOA\_U

ClientSampleId :

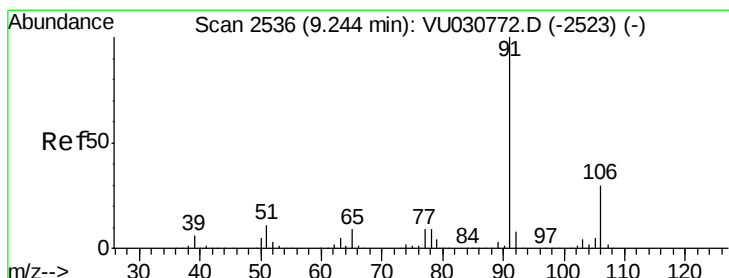
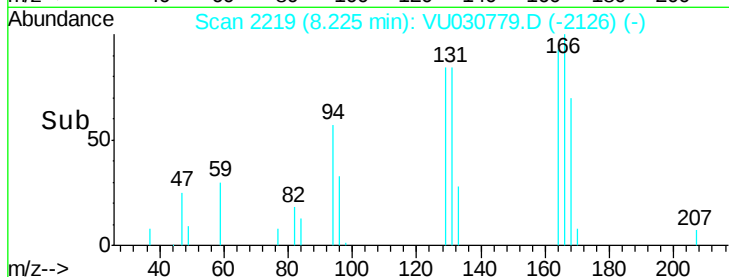
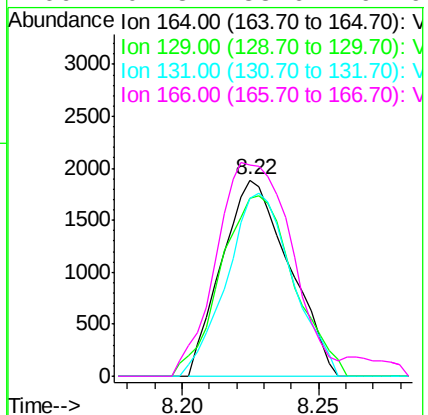
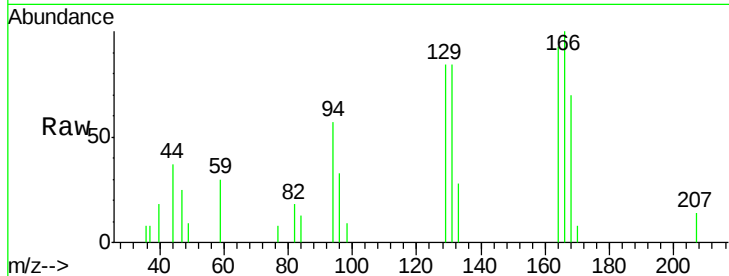
E3YE2DL

| Tot Ion | 164   | Resp: | 3250  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 164     | 100   |       |       |
| 129     | 90.5  | 67.4  | 125.2 |
| 131     | 90.8  | 65.9  | 122.5 |
| 166     | 107.8 | 88.6  | 164.6 |

Manual Integrations  
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#52

Ethylbenzene

Concen: 1.149 ug/L

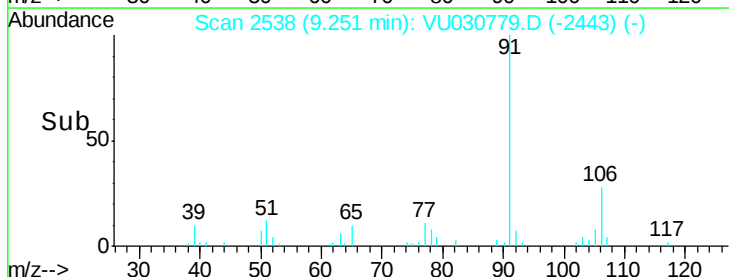
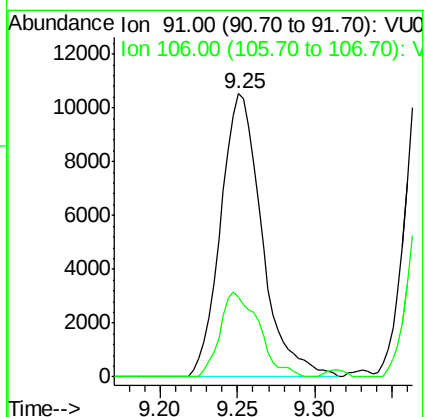
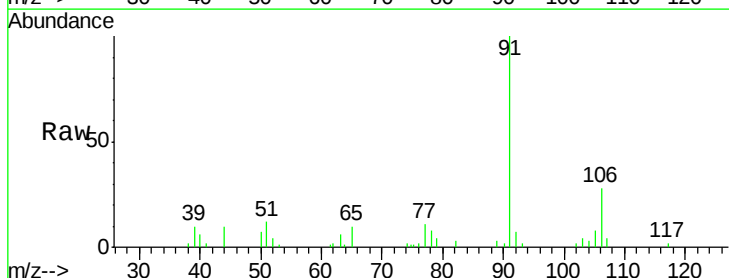
RT: 9.25 min Scan# 2538

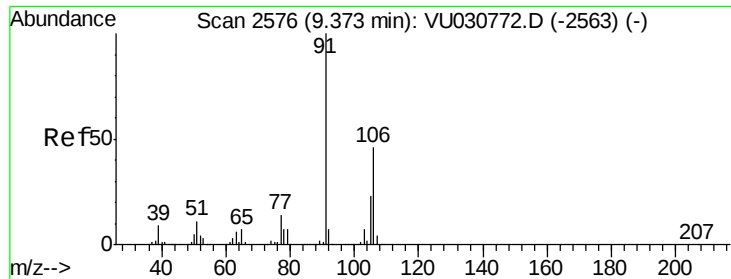
Delta R.T. 0.01 min

Lab File: VU030779.D

Acq: 06 Apr 2019 06:24

| Tgt Ion | 91    | Resp: | 19477 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 91      | 100   |       |       |
| 106     | 28.4  | 20.4  | 37.8  |





#53

m,p-Xylene

Concen: 2.391 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU030779.D

Acq: 06 Apr 2019 06:24

Instrument :

MSVOA\_U

ClientSampleId :

E3YE2DL

Tot Ion:106 Resp: 14141

Ion Ratio Lower Upper

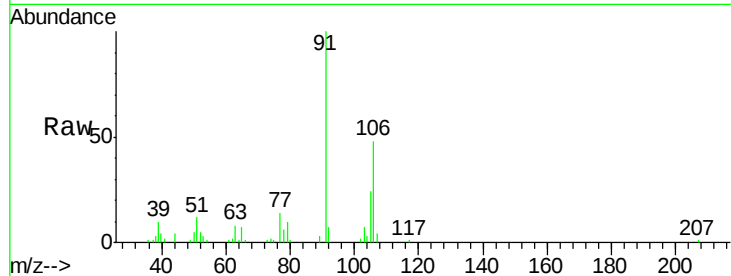
106 100

91 209.3 148.0 274.8

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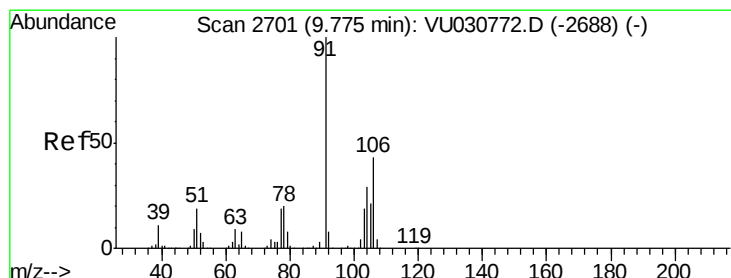
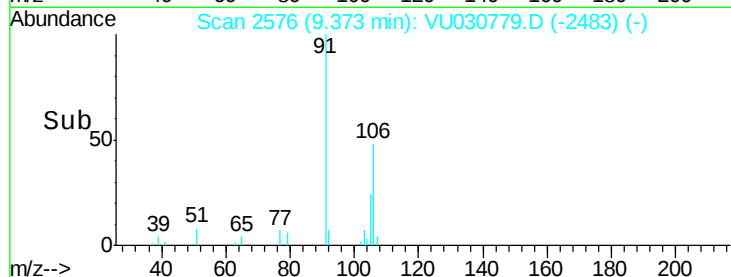
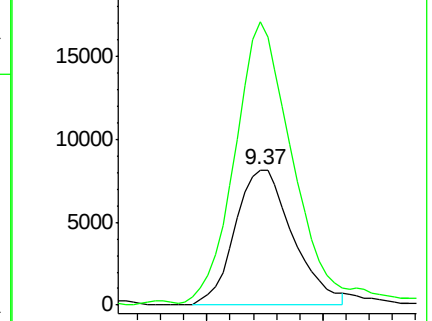
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 1.871 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU030779.D

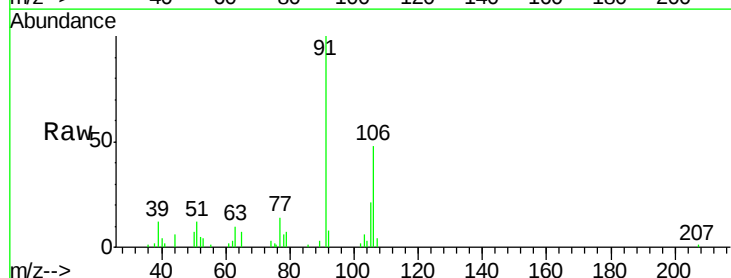
Acq: 06 Apr 2019 06:24

Tgt Ion:106 Resp: 11007

Ion Ratio Lower Upper

106 100

91 206.7 156.7 290.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0

