

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101618\

Data File : VV008321.D

Acq On : 17 Oct 2018 03:12

Operator : SY/MD

Sample : J5463-08

Misc : 25.0 mL/MSVOA V/WATER

ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 17 07:09:04 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Oct 17 05:02:19 2018

Response via : Initial Calibration

Instrument :

MSVOA\_V

ClientSampled :

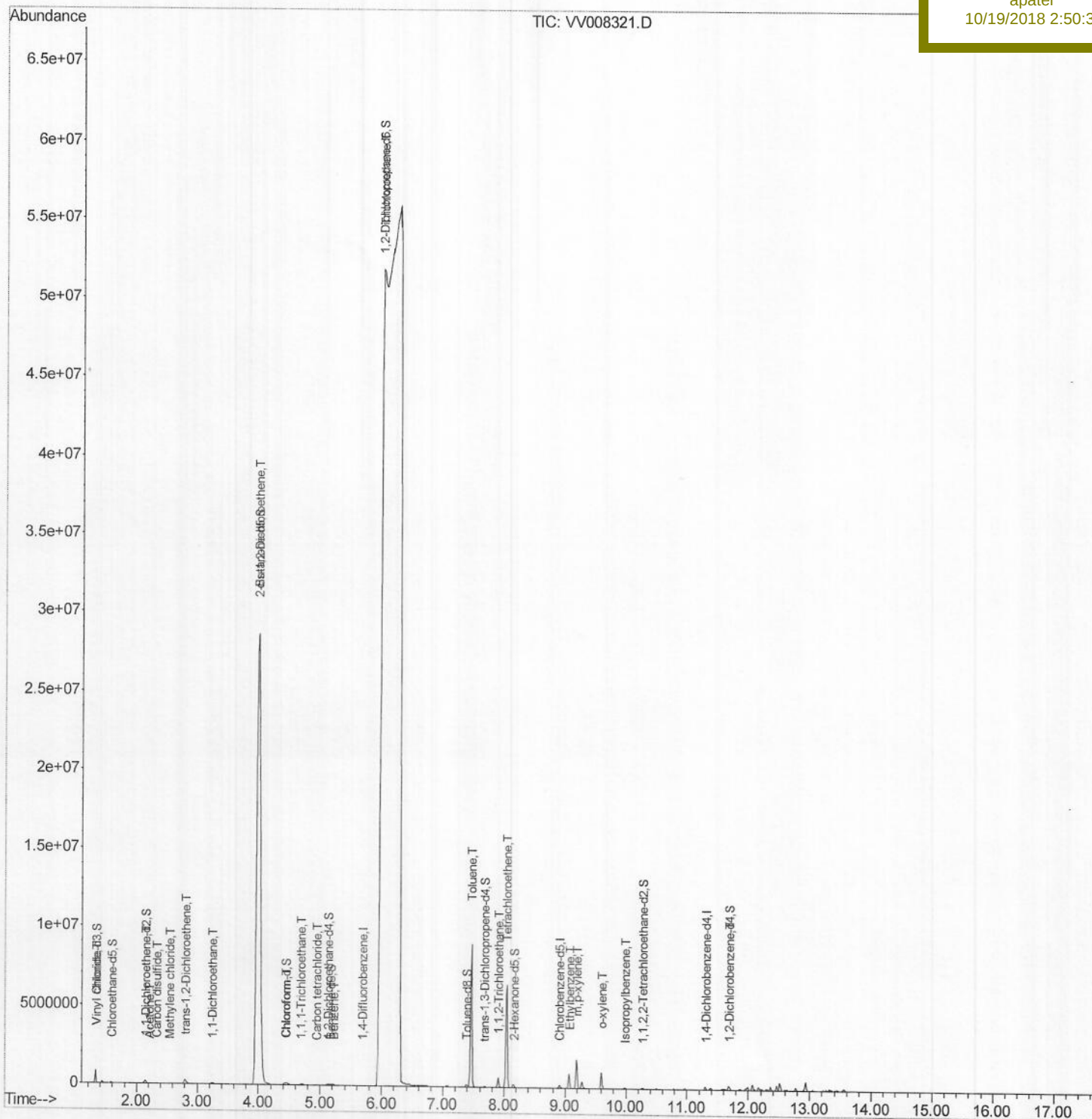
C0JB9

Manual Integrations

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# Quantitation Report (Qedit)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101618\

Data File : VV008321.D

Acq On : 17 Oct 2018 03:12

Operator : SY/MD

Sample : J5463-08

Misc : 25.0 mL/MSVOA V/WATER

ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 17 05:06:55 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Oct 17 05:02:19 2018

Response via : Initial Calibration

Instrument :

MSVOA\_V

ClientSampleId :

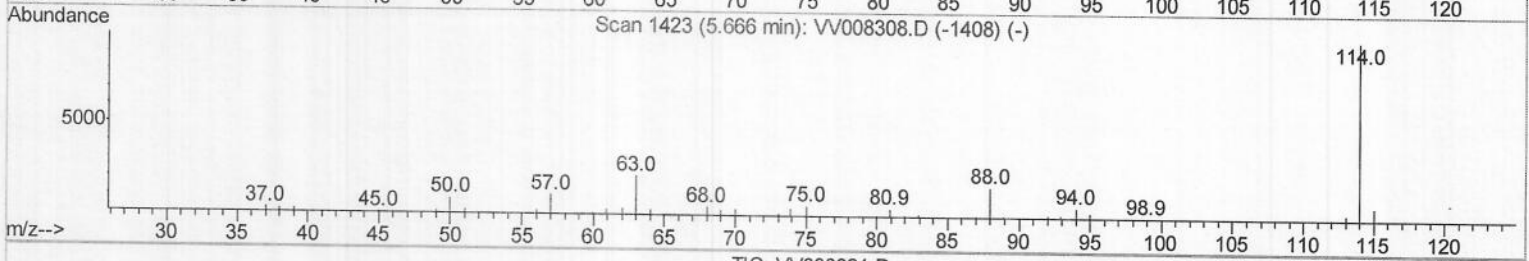
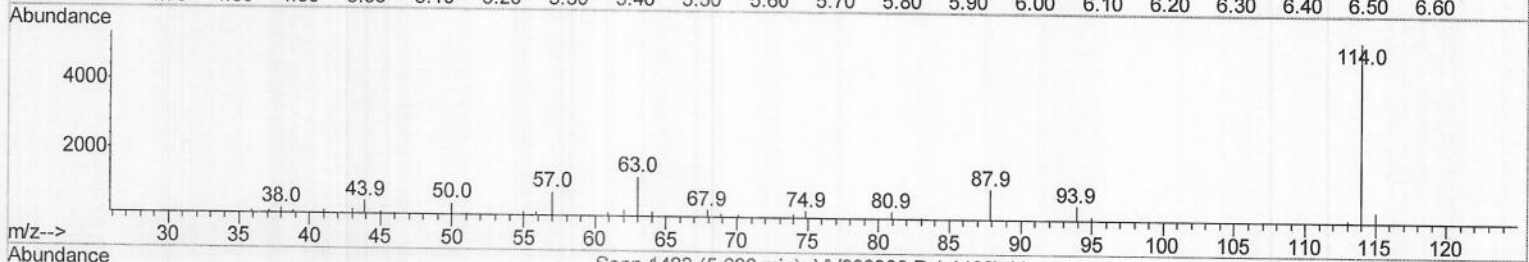
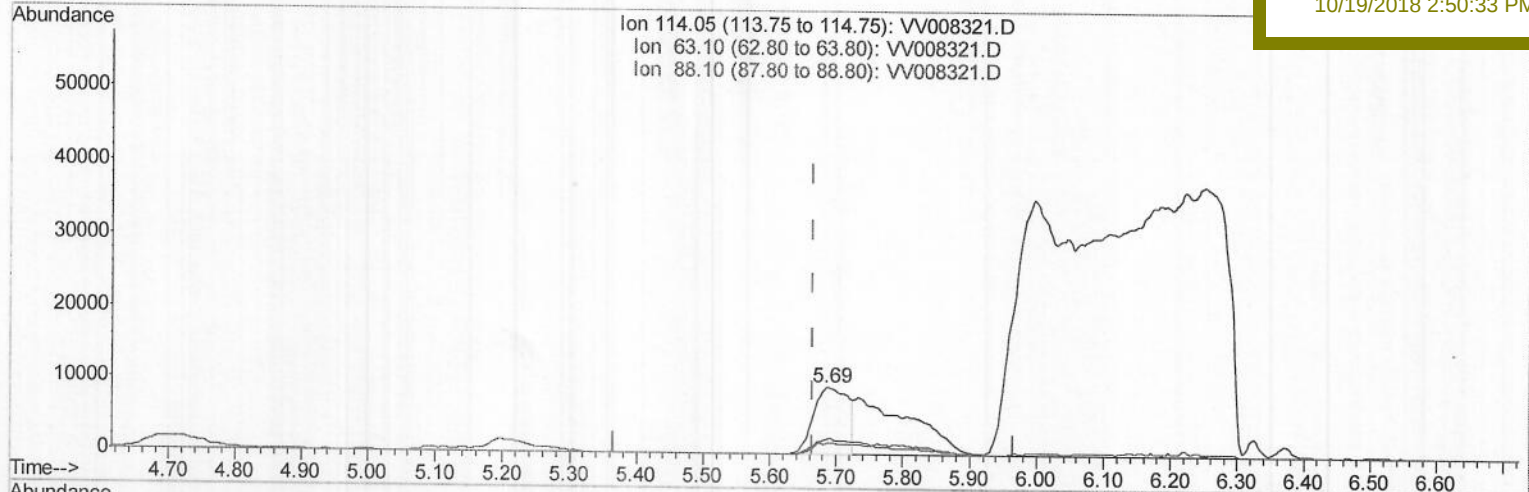
C0JB9

Manual Integrations

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TIC: VV008321.D

(1) 1,4-Difluorobenzene (I)

5.685min (+0.019) 5.00ug/L

response 32700

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 114.05 | 100   | 100   |
| 63.10  | 23.10 | 23.72 |
| 88.10  | 16.70 | 5.15# |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101618\

Data File : VV008321.D

Acq On : 17 Oct 2018 03:12

Operator : SY/MD

Sample : J5463-08

Misc : 25.0 mL/MSVOA V/WATER

ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 17 05:06:55 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Oct 17 05:02:19 2018

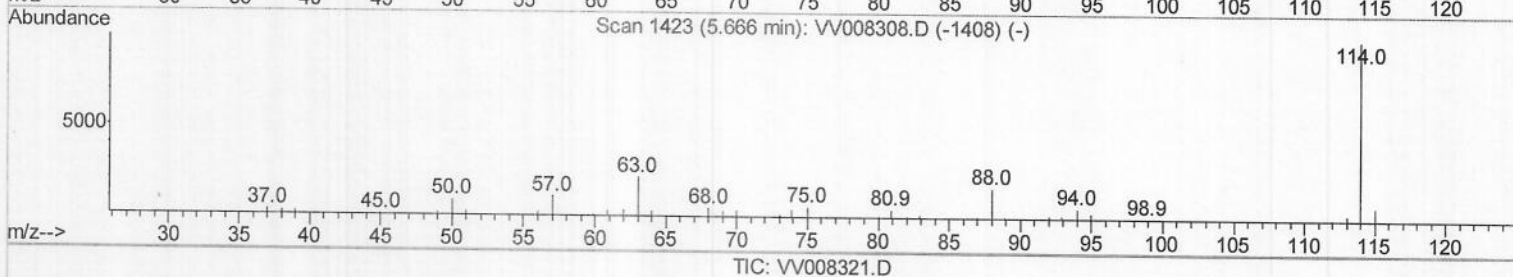
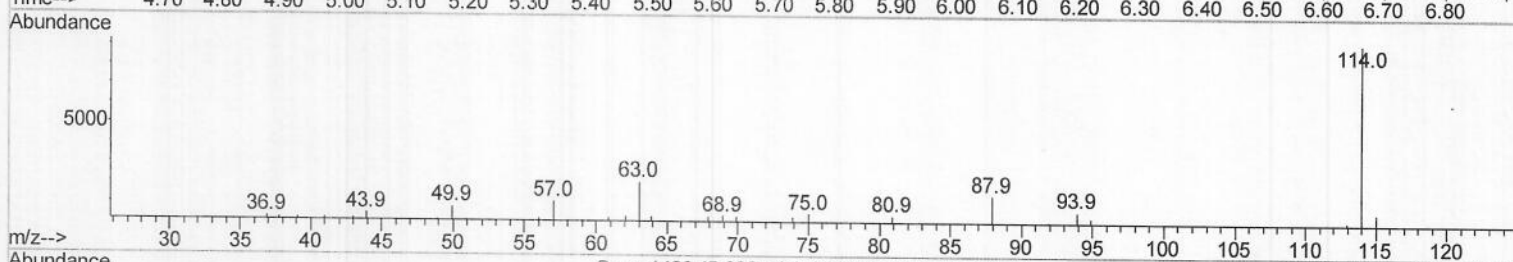
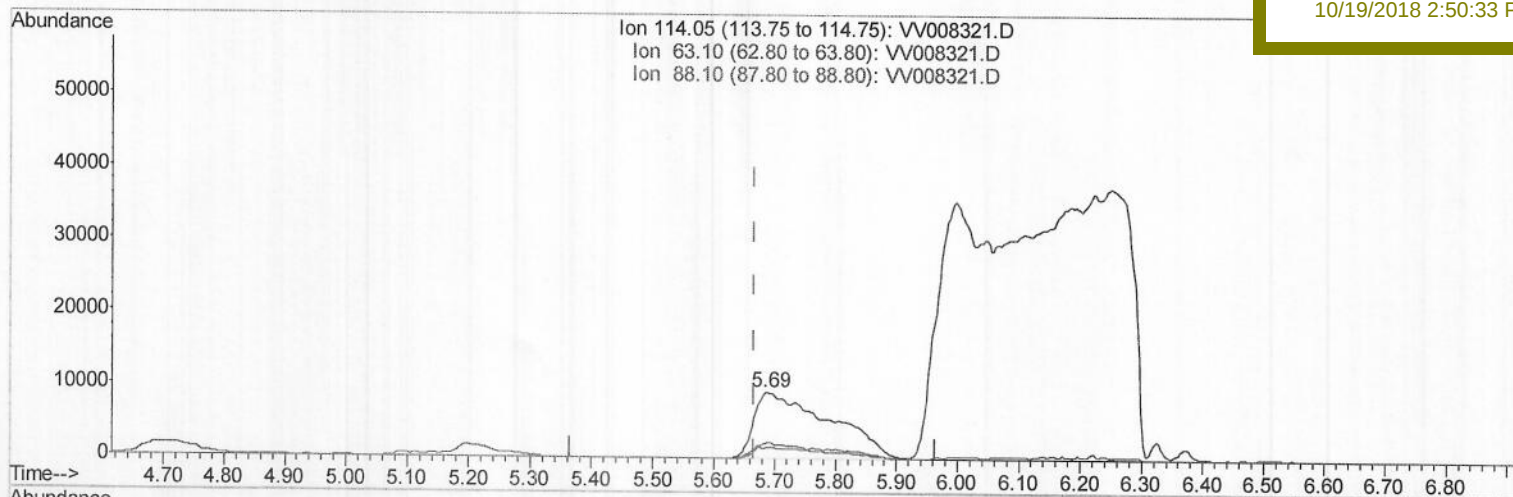
Response via : Initial Calibration

Instrument :

MSVOA\_V

ClientSampleId :

C0JB9

Manual Integrations  
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10/19/2018 2:50:33 PM

(1) 1,4-Difluorobenzene (I)

5.685min (+0.019) 5.00ug/L m ) MD 10/23/18

response 79810

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 114.05 | 100   | 100   |
| 63.10  | 23.10 | 9.72# |
| 88.10  | 16.70 | 2.11# |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101618\

Data File : VV008321.D

Acq On : 17 Oct 2018 03:12

Operator : SY/MD

Sample : J5463-08

Misc : 25.0 mL/MSVOA V/WATER

ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 17 07:00:23 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Oct 17 05:02:19 2018

Response via : Initial Calibration

Instrument :

MSVOA\_V

ClientSampleId :

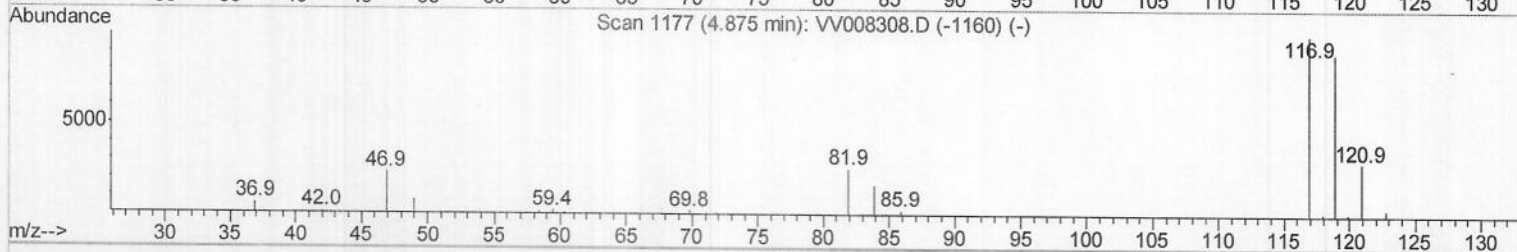
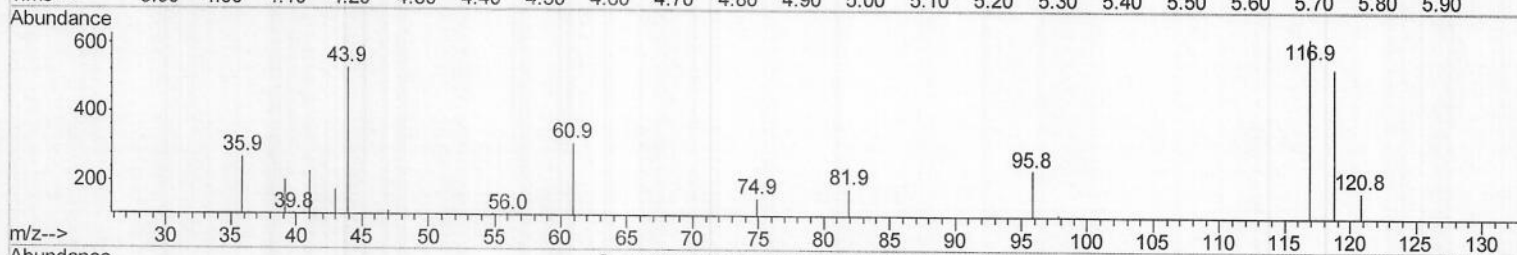
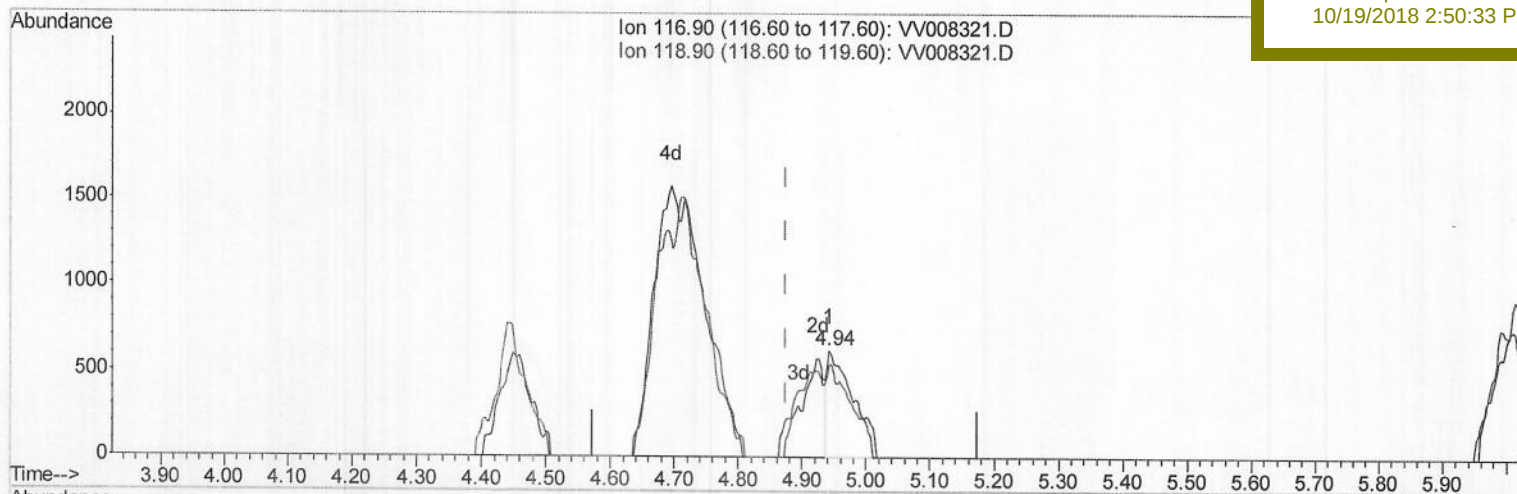
C0JB9

Manual Integrations

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TIC: VV008321.D

(31) Carbon tetrachloride (T)

4.942min (+0.068) 0.21ug/L

response 1777

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 116.90 | 100   | 100   |
| 118.90 | 94.40 | 81.99 |
| 0.00   | 0.00  | 0.00  |
| 0.00   | 0.00  | 0.00  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101618\

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Acq On : 17 Oct 2018 03:12

Operator : SY/MD

Sample : J5463-08

Misc : 25.0 mL/MSVOA V/WATER

ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 17 07:00:23 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Oct 17 05:02:19 2018

Response via : Initial Calibration

Instrument :

MSVOA\_V

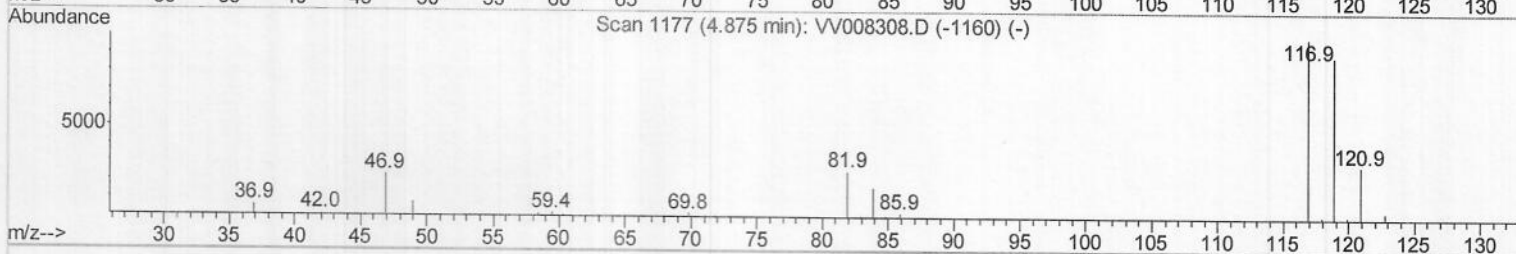
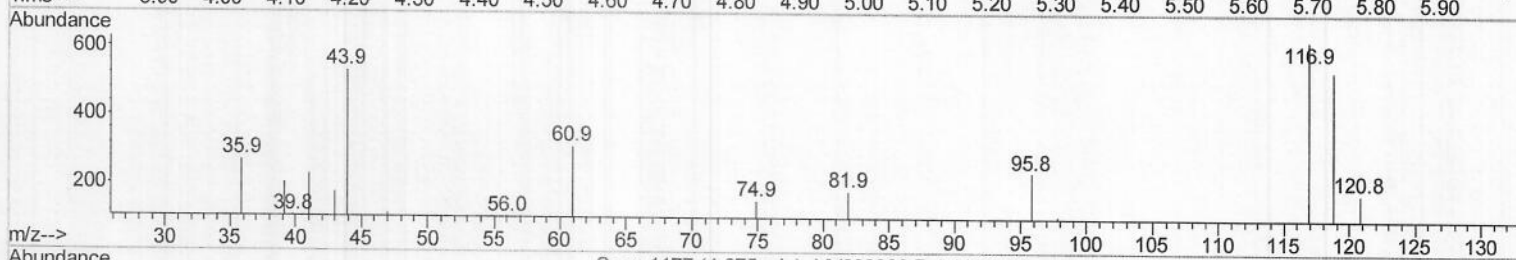
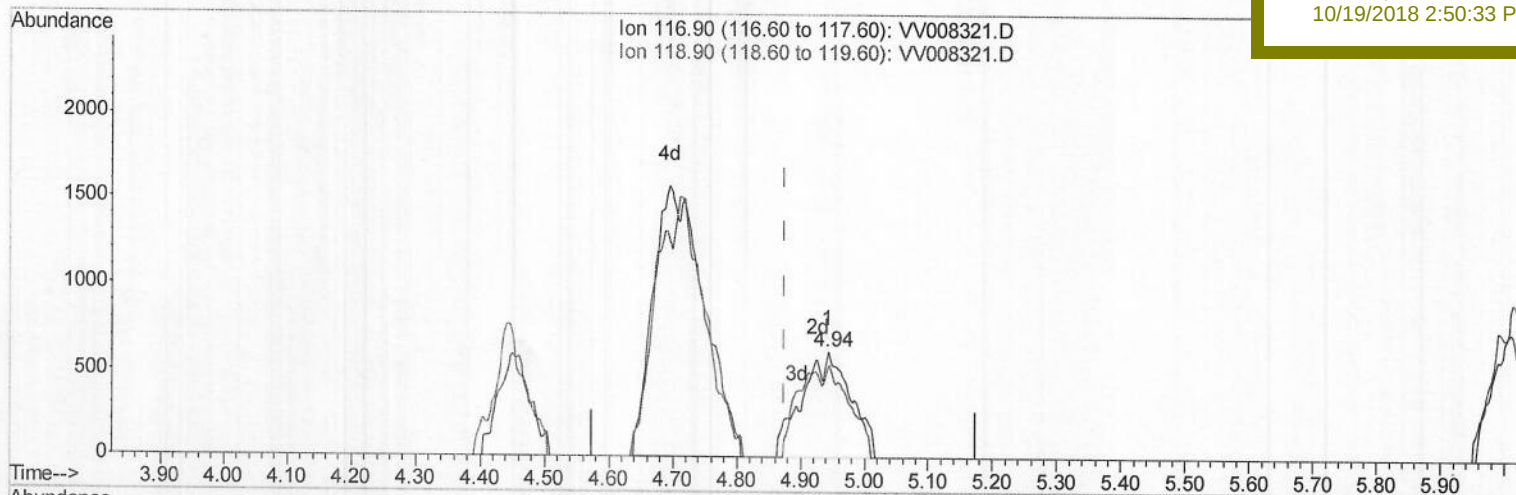
ClientSampleId :

C0JB9

Manual Integrations  
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(31) Carbon tetrachloride (T)

4.942min (+0.068) 0.40ug/L m

MD10/23/18

response 3306

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 116.90 | 100   | 100    |
| 118.90 | 94.40 | 44.07# |
| 0.00   | 0.00  | 0.00   |
| 0.00   | 0.00  | 0.00   |

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Acq On : 17 Oct 2018 03:12

Operator : SY/MD

Sample : J5463-08

Misc : 25.0 mL/MSVOA V/WATER

ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 17 07:00:23 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Oct 17 05:02:19 2018

Response via : Initial Calibration

Instrument :

MSVOA\_V

ClientSampleId :

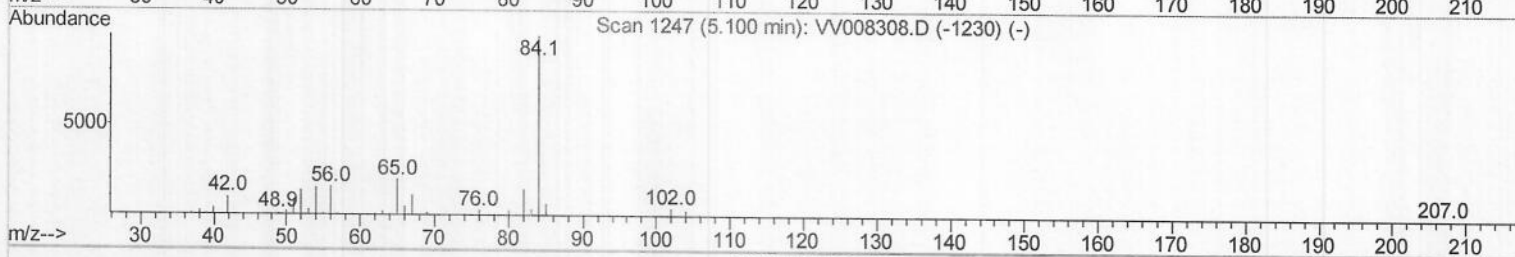
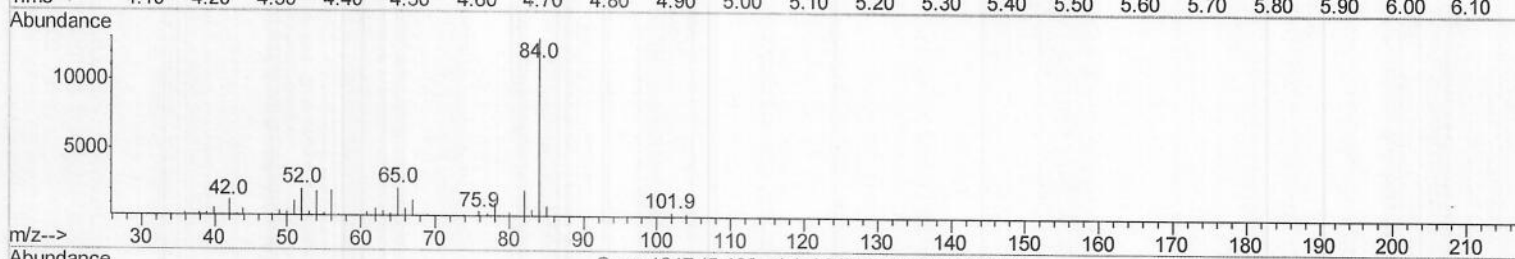
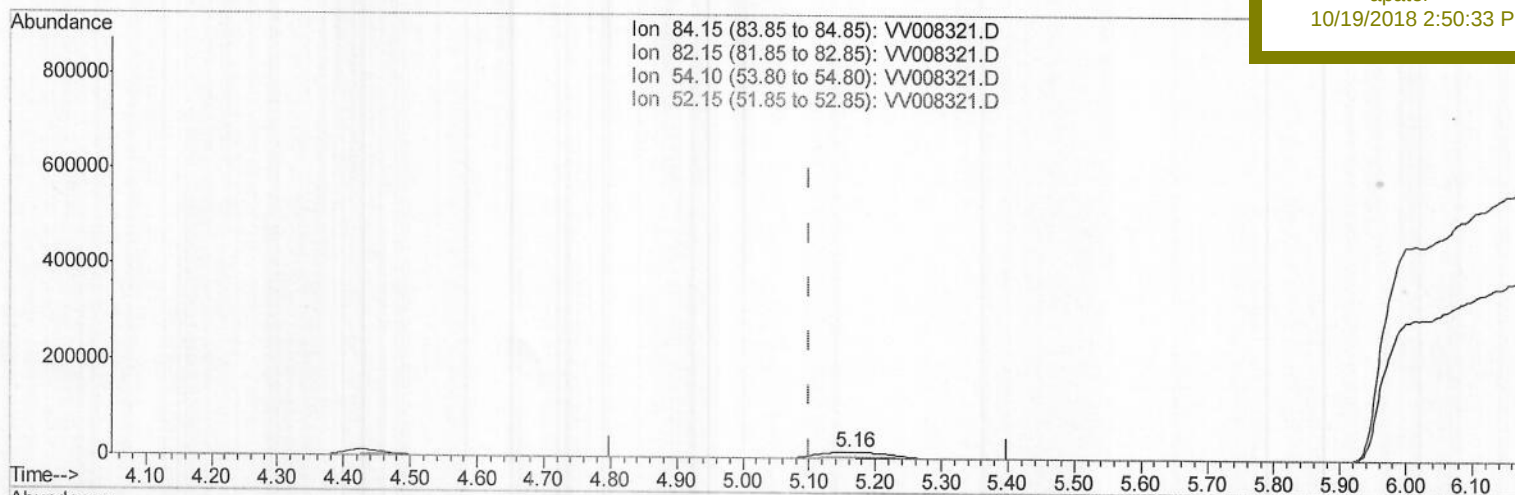
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Manual Integrations

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TIC: VV008321.D

(32) Benzene-d6 (S)

5.161min (+0.061) 2.15ug/L

response 50250

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 84.15 | 100   | 100   |
| 82.15 | 15.30 | 0.00# |
| 54.10 | 15.40 | 0.52# |
| 52.15 | 14.30 | 1.45# |

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Data File : VV008321.D

Acq On : 17 Oct 2018 03:12

Operator : SY/MD

Sample : J5463-08

Misc : 25.0 mL/MSVOA V/WATER

ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 17 07:00:23 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Oct 17 05:02:19 2018

Response via : Initial Calibration

Instrument :

MSVOA\_V

ClientSampleId :

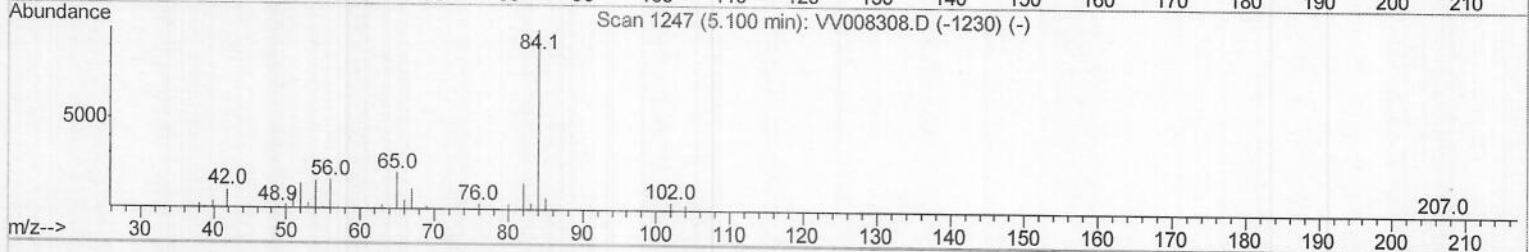
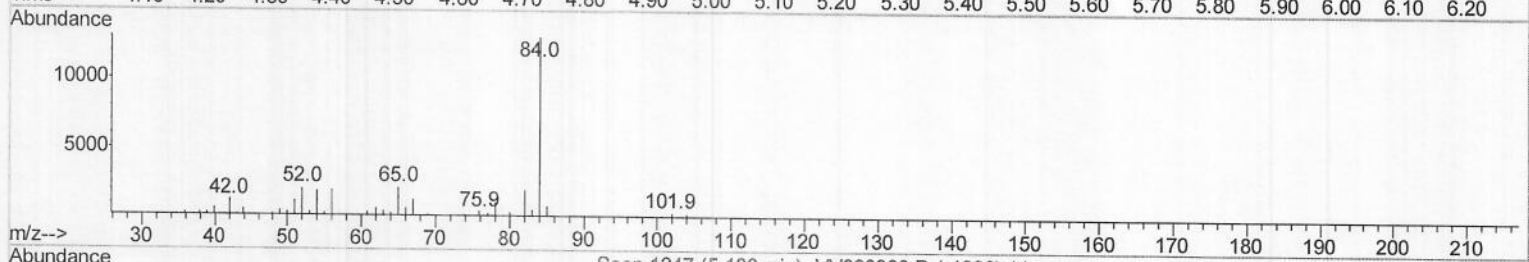
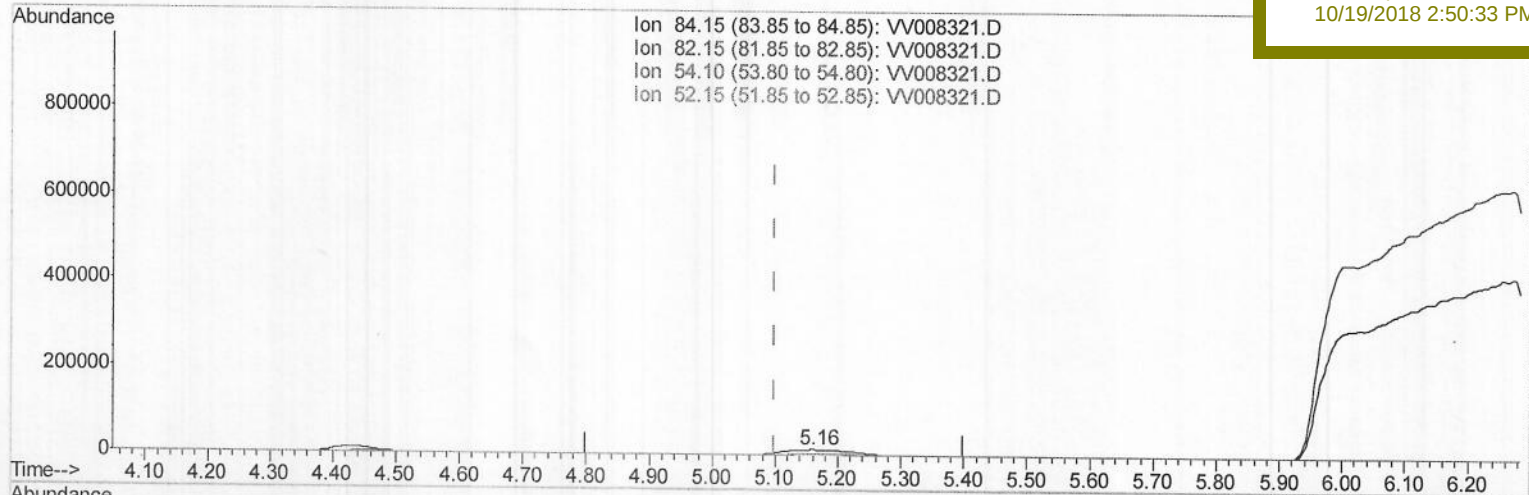
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Manual Integrations

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TIC: VV008321.D

(32) Benzene-d6 (S)

5.161min (+0.061) 4.06ug/L m&gt; MD 10/23/18

response 95025

| Ion   | Exp%  | Act%  |
|-------|-------|-------|
| 84.15 | 100   | 100   |
| 82.15 | 15.30 | 0.00# |
| 54.10 | 15.40 | 0.27# |
| 52.15 | 14.30 | 0.77# |

# Quantitation Report (Qedit)

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101618\

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Operator : SY/MD

Sample : J5463-08

Misc : 25.0 mL/MSVOA V/WATER

ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 17 07:00:23 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Oct 17 05:02:19 2018

Response via : Initial Calibration

Instrument :

MSVOA\_V

ClientSampleId :

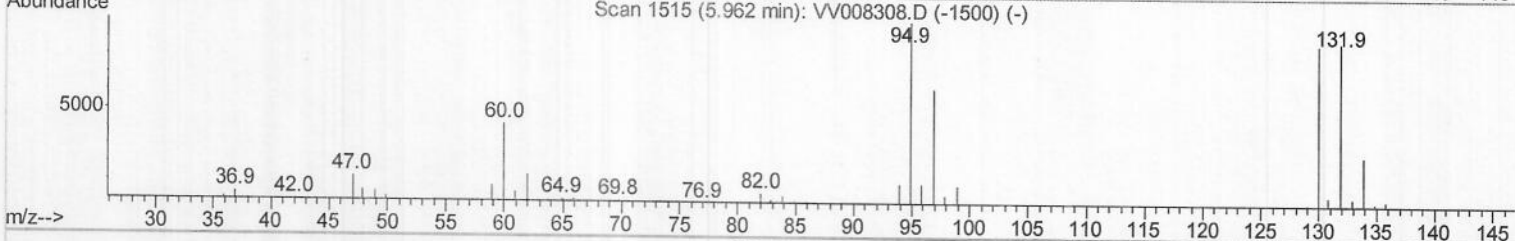
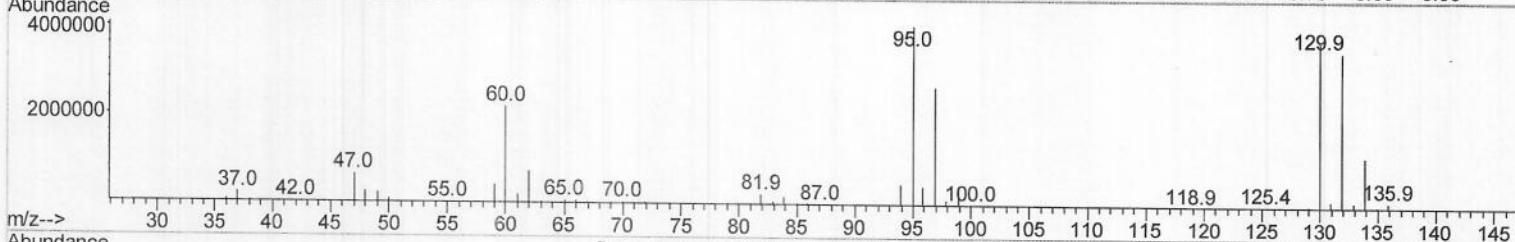
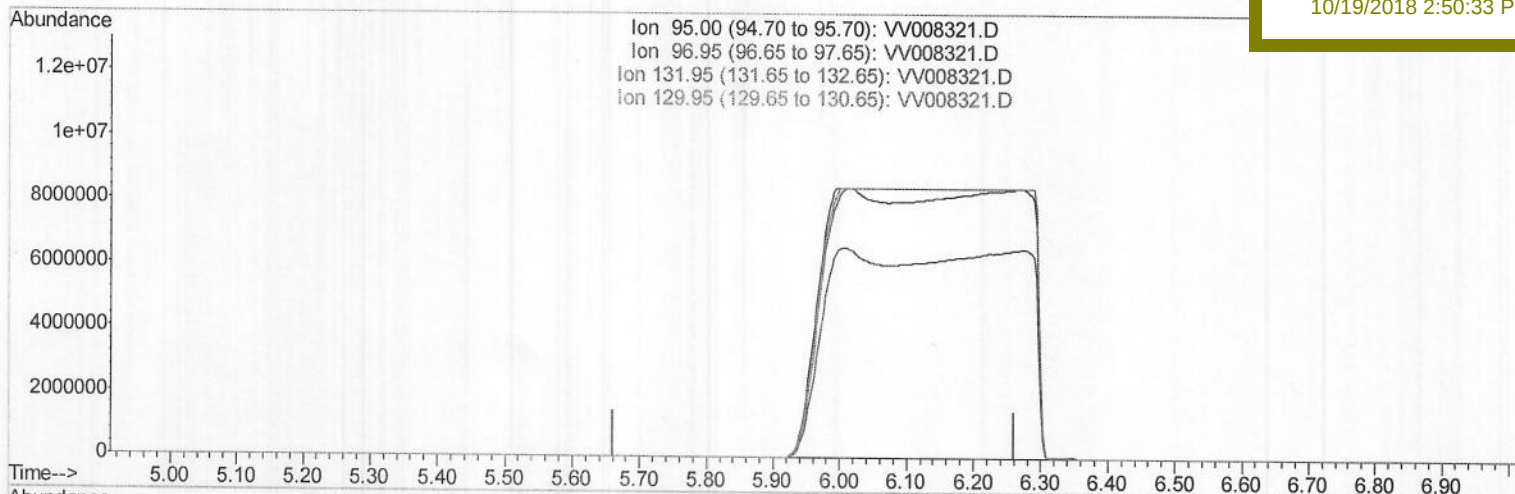
C0JB9

Manual Integrations

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TIC: VV008321.D

(34) Trichloroethene (T)

5.962min (-5.962) 0.00ug/L

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 95.00  | 100   | 0.00  |
| 96.95  | 63.40 | 0.00# |
| 131.95 | 86.30 | 0.00# |
| 129.95 | 93.60 | 0.00# |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101618\

Data File : VV008321.D

Acq On : 17 Oct 2018 03:12

Operator : SY/MD

Sample : J5463-08

Misc : 25.0 mL/MSVOA V/WATER

ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 17 07:00:23 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Oct 17 05:02:19 2018

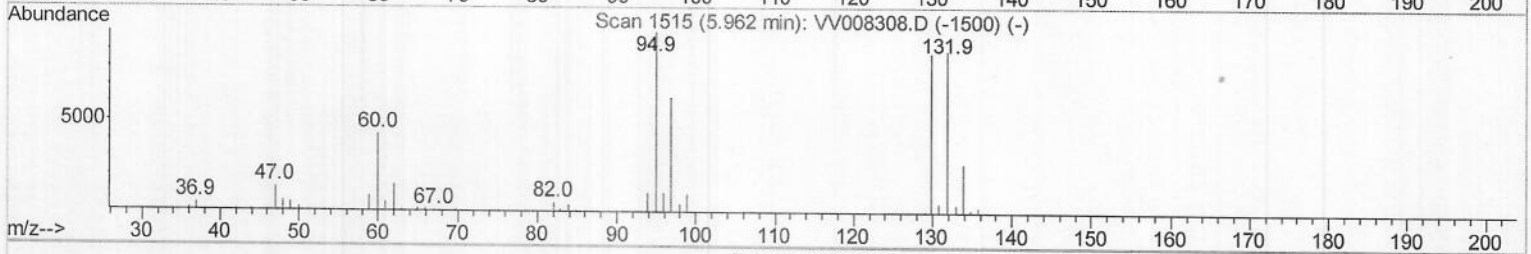
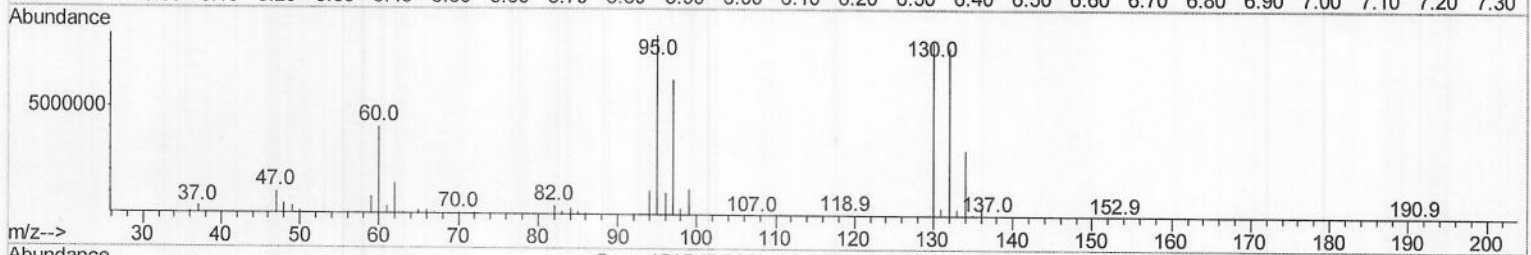
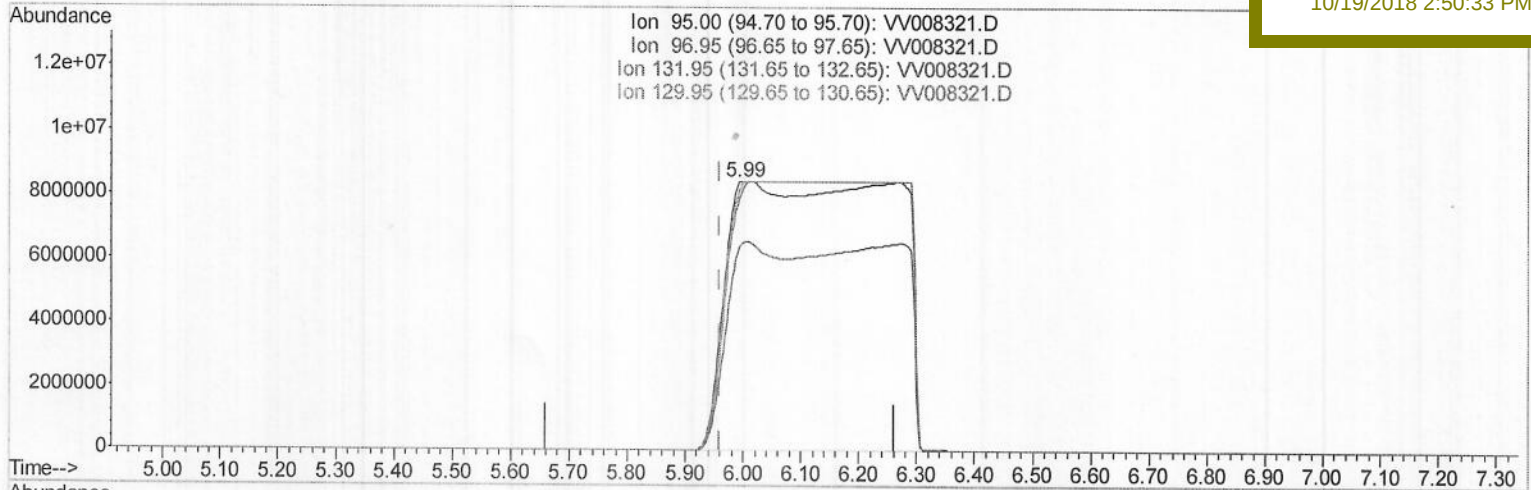
Response via : Initial Calibration

Instrument :

MSVOA\_V

ClientSampleId :

C0JB9

Manual Integrations  
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10/19/2018 2:50:33 PM

TIC: VV008321.D

(34) Trichloroethene (T)

5.994min (+0.032) 22163.84ug/L m

response 164898200

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 95.00  | 100   | 100   |
| 96.95  | 63.40 | 75.58 |
| 131.95 | 86.30 | 93.77 |
| 129.95 | 93.60 | 96.78 |

&gt; MD 10/23/18

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101618\

Data File : VV008321.D

Acq On : 17 Oct 2018 03:12

Operator : SY/MD

Sample : J5463-08

Misc : 25.0 mL/MSVOA V/WATER

ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 17 07:00:23 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Oct 17 05:02:19 2018

Response via : Initial Calibration

Instrument :

MSVOA\_V

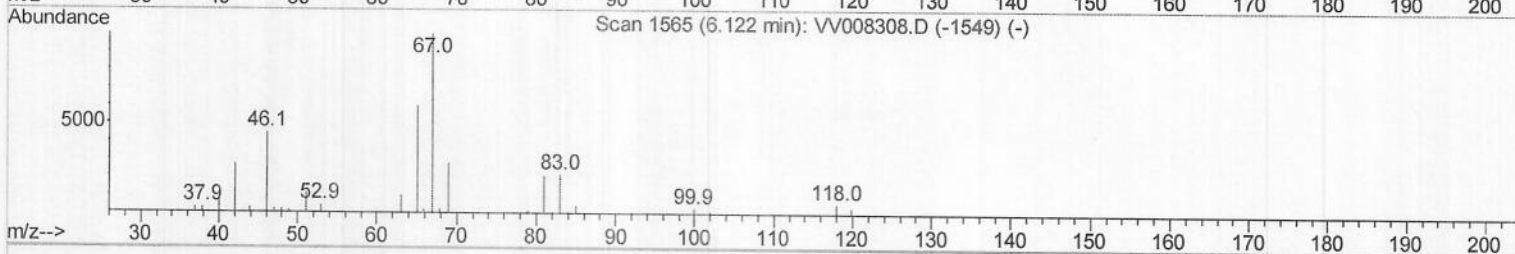
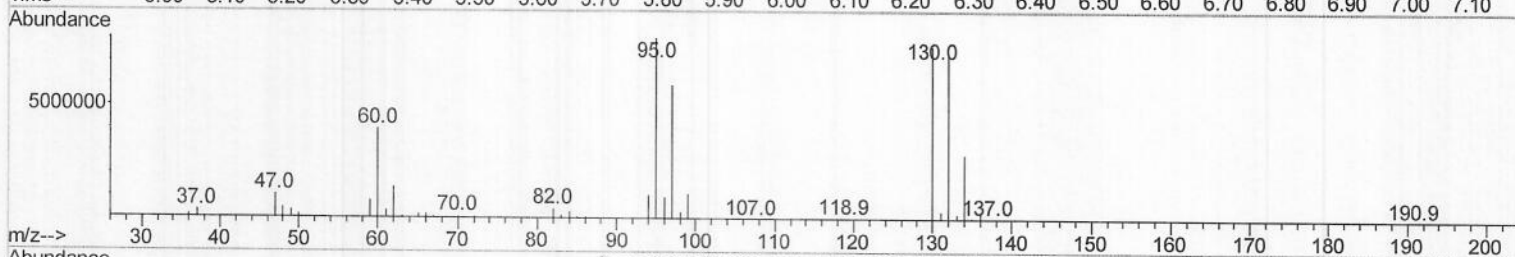
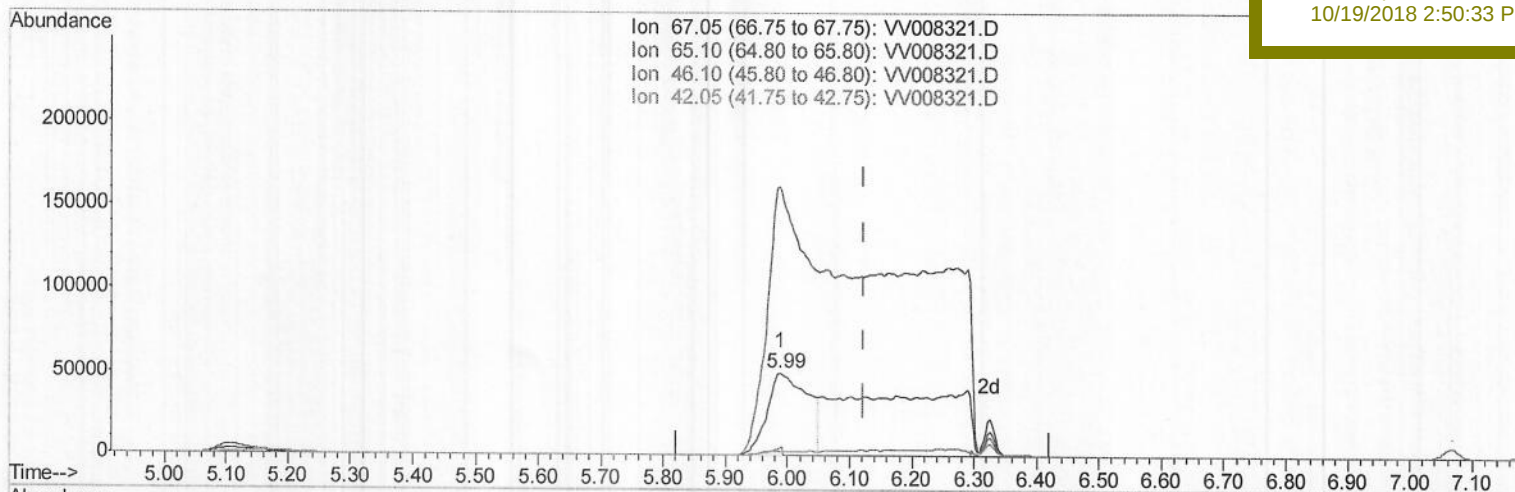
ClientSampleId :

C0JB9

Manual Integrations  
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apatel

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TIC: VV008321.D

(36) 1,2-Dichloropropane-d6 (S)

5.987min (-0.135) 29.68ug/L

response 228536

| Ion   | Exp%  | Act%    |
|-------|-------|---------|
| 67.05 | 100   | 100     |
| 65.10 | 62.10 | 327.70# |
| 46.10 | 45.30 | 3.15#   |
| 42.05 | 26.90 | 2.78#   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101618\

Data File : VV008321.D

Acq On : 17 Oct 2018 03:12

Operator : SY/MD

Sample : J5463-08

Misc : 25.0 mL/MSVOA V/WATER

ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 17 07:00:23 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Oct 17 05:02:19 2018

Response via : Initial Calibration

Instrument :

MSVOA\_V

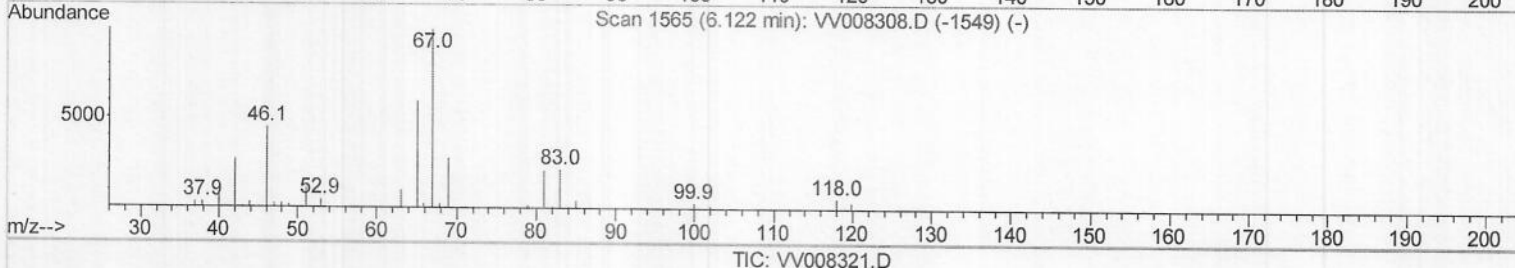
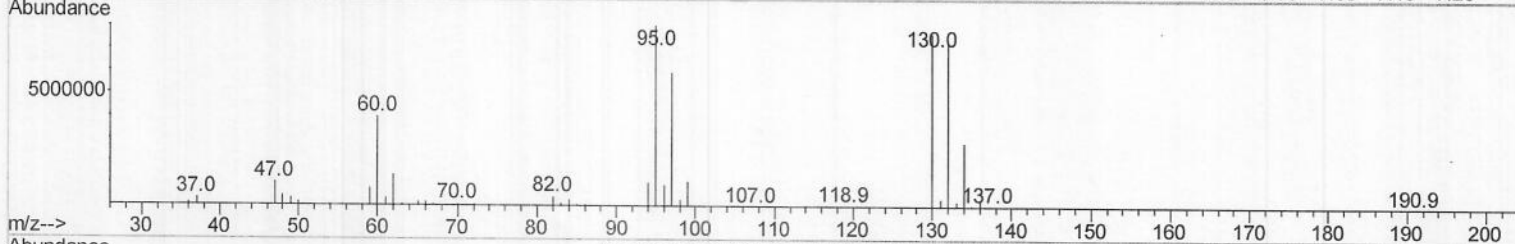
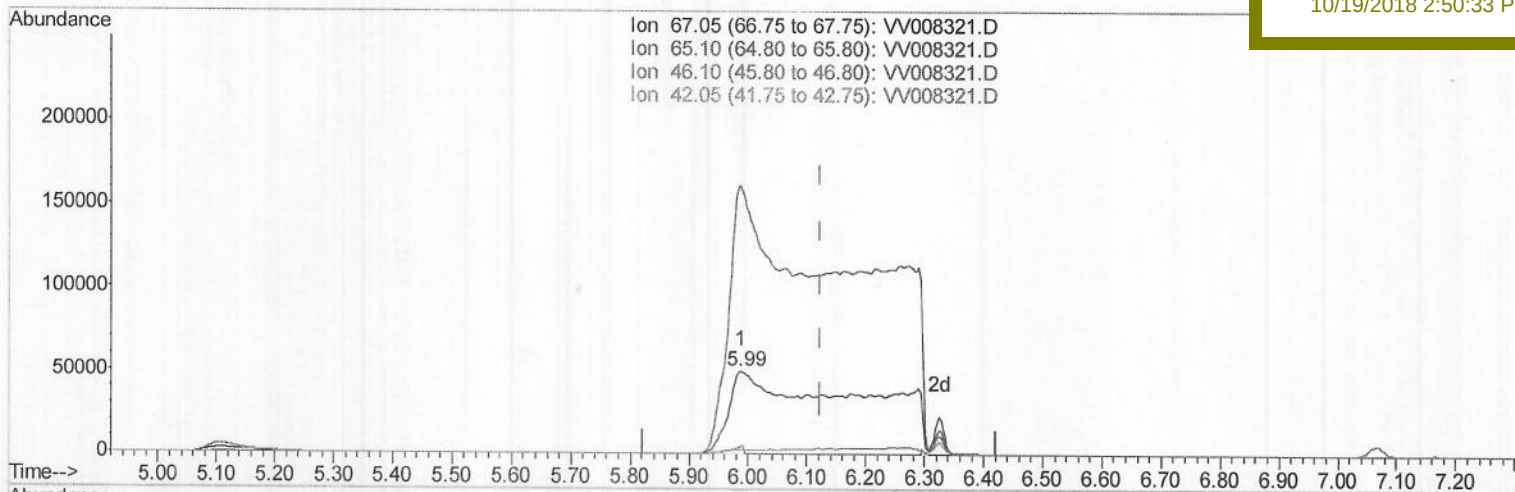
ClientSampleId :

C0JB9

Manual Integrations  
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10/19/2018 2:50:33 PM



(36) 1,2-Dichloropropane-d6 (S)

5.987min (-0.135) 98.69ug/L m &gt; MD10123118

response 760043

| Ion   | Exp%  | Act%   |
|-------|-------|--------|
| 67.05 | 100   | 100    |
| 65.10 | 62.10 | 98.53# |
| 46.10 | 45.30 | 0.95#  |
| 42.05 | 26.90 | 0.84#  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101618\

Data File : VV008321.D

Acq On : 17 Oct 2018 03:12

Operator : SY/MD

Sample : J5463-08

Misc : 25.0 mL/MSVOA V/WATER

ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 17 07:00:23 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Oct 17 05:02:19 2018

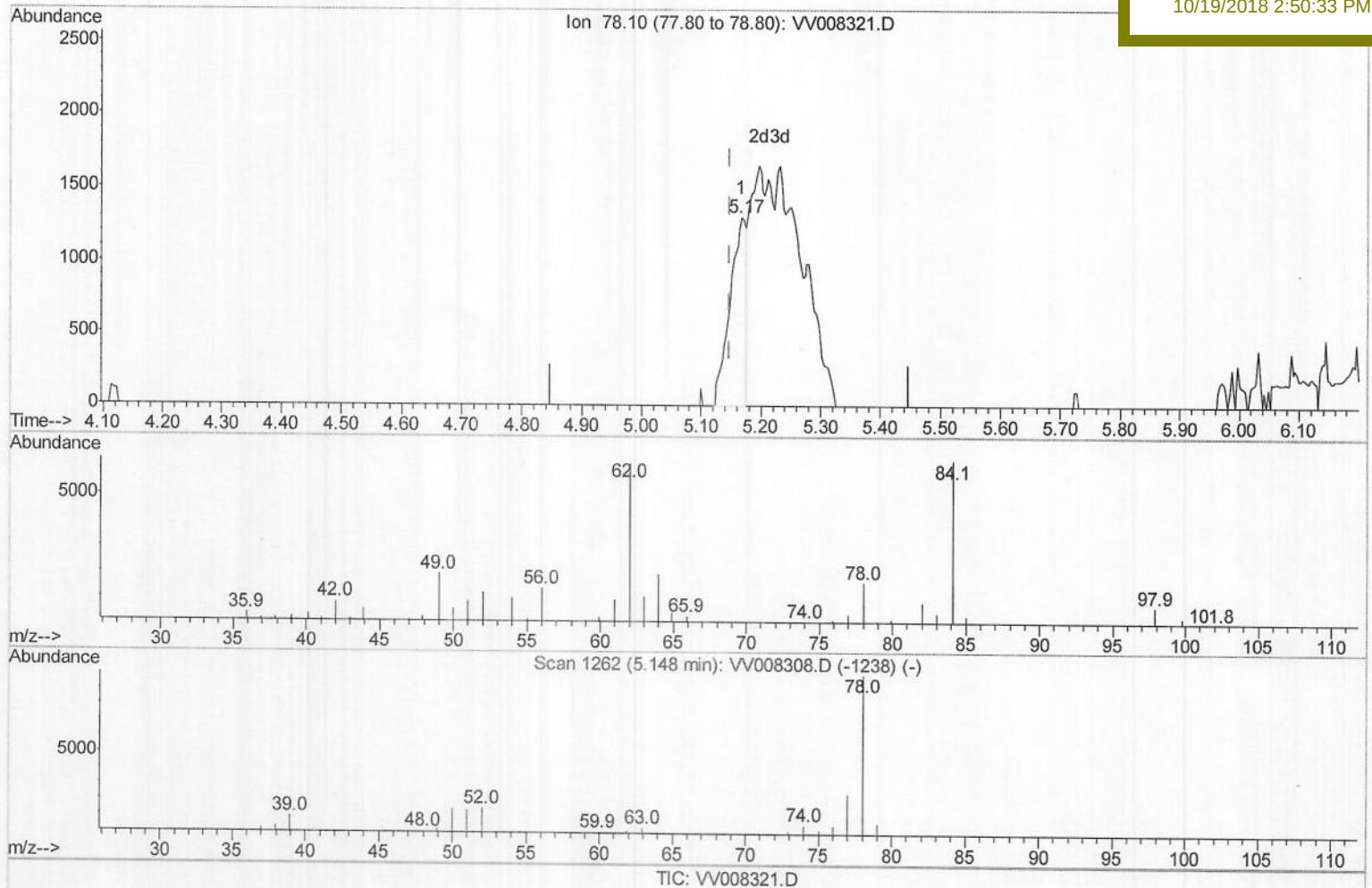
Response via : Initial Calibration

Instrument :

MSVOA\_V

ClientSampleId :

C0JB9

Manual Integrations  
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10/19/2018 2:50:33 PM

(33) Benzene (T)

5.167min (+0.019) 0.09ug/L

response 2375

| Ion   | Exp% | Act% |
|-------|------|------|
| 78.10 | 100  | 100  |
| 0.00  | 0.00 | 0.00 |
| 0.00  | 0.00 | 0.00 |
| 0.00  | 0.00 | 0.00 |

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Instrument :

MSVOA\_V

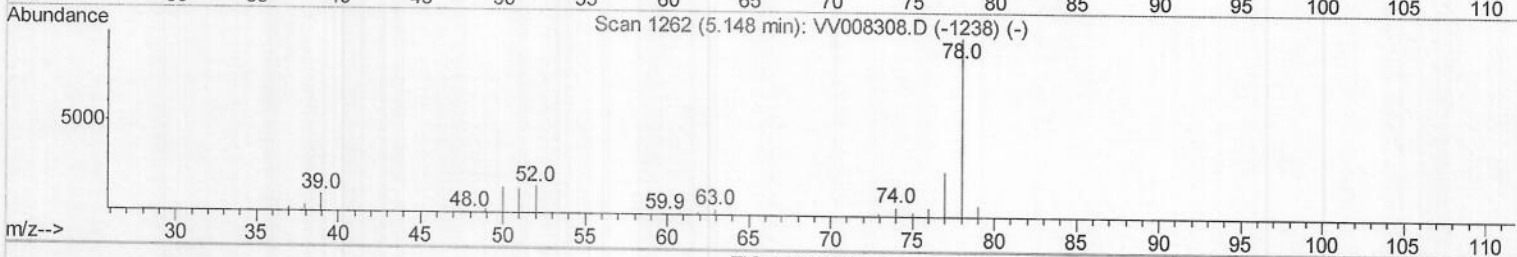
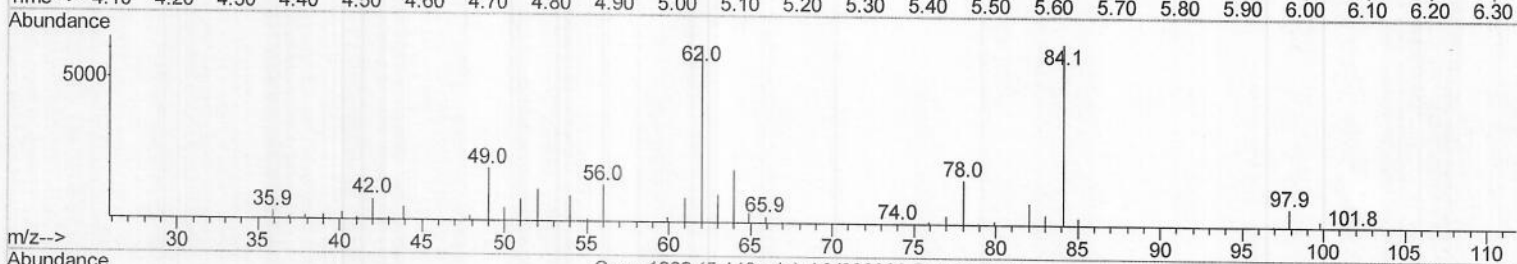
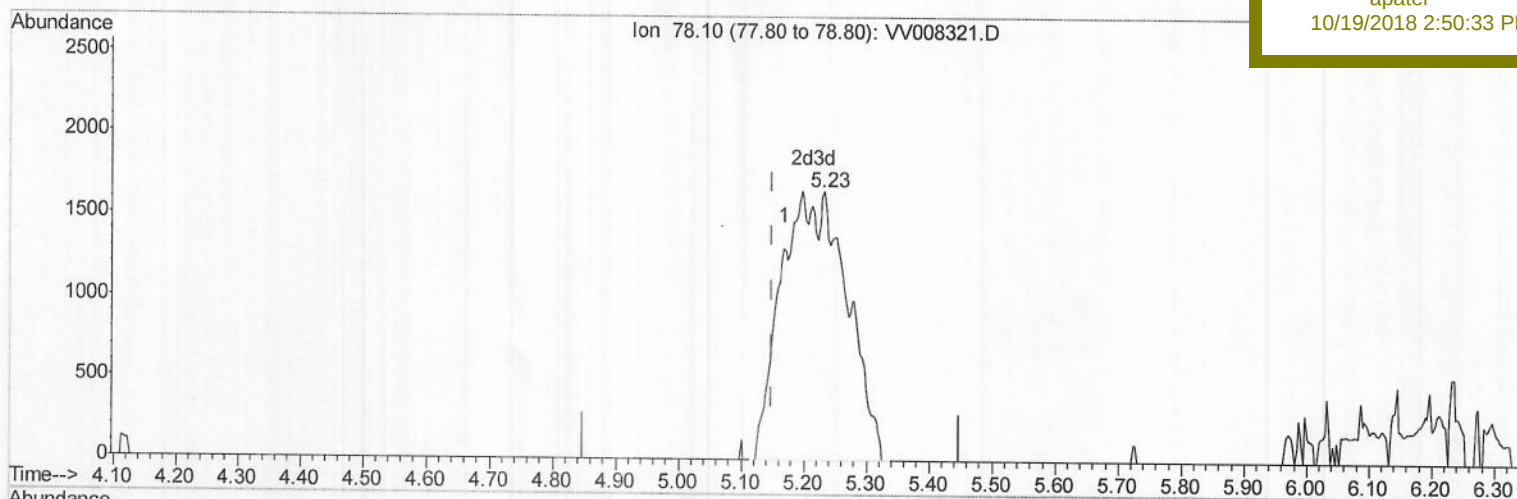
ClientSampleId :

C0JB9

Manual Integrations  
APPROVED

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TIC: VV008321.D

(33) Benzene (T)

5.232min (+0.084) 0.45ug/L m &gt; MD10/23/18

response 12066

| Ion   | Exp% | Act% |
|-------|------|------|
| 78.10 | 100  | 100  |
| 0.00  | 0.00 | 0.00 |
| 0.00  | 0.00 | 0.00 |
| 0.00  | 0.00 | 0.00 |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101618\

Data File : VV008321.D

Acq On : 17 Oct 2018 03:12

Operator : SY/MD

Sample : J5463-08

Misc : 25.0 mL/MSVOA V/WATER

ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 17 07:00:23 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Oct 17 05:02:19 2018

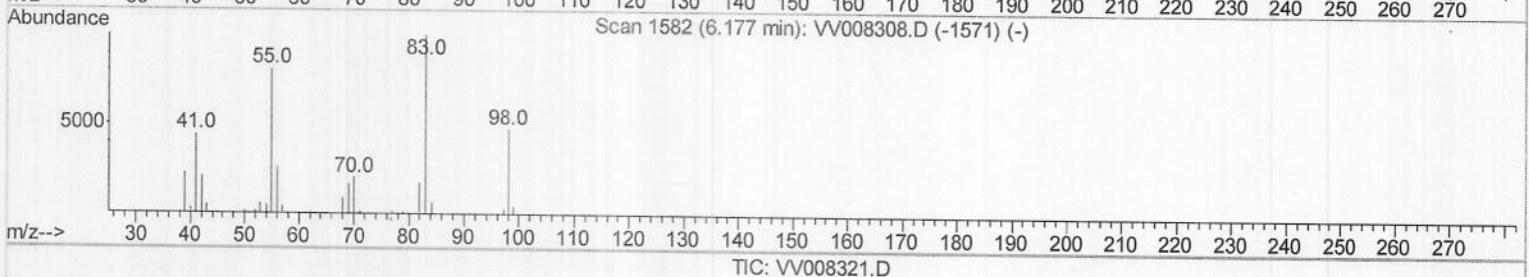
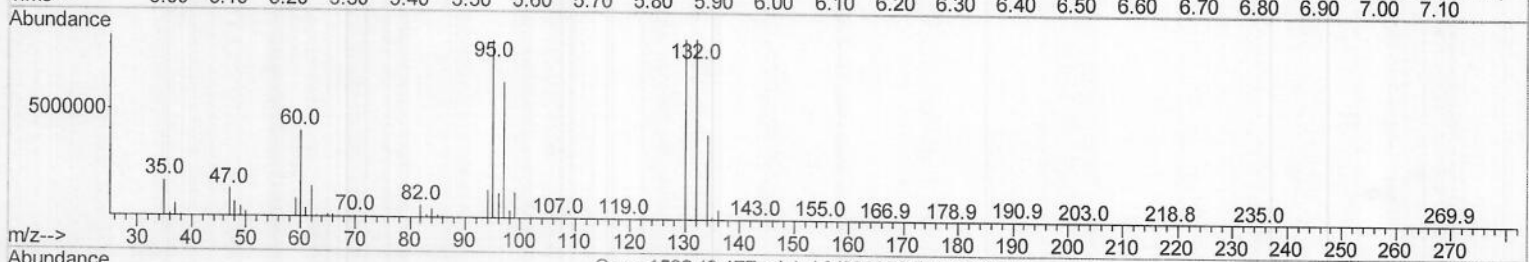
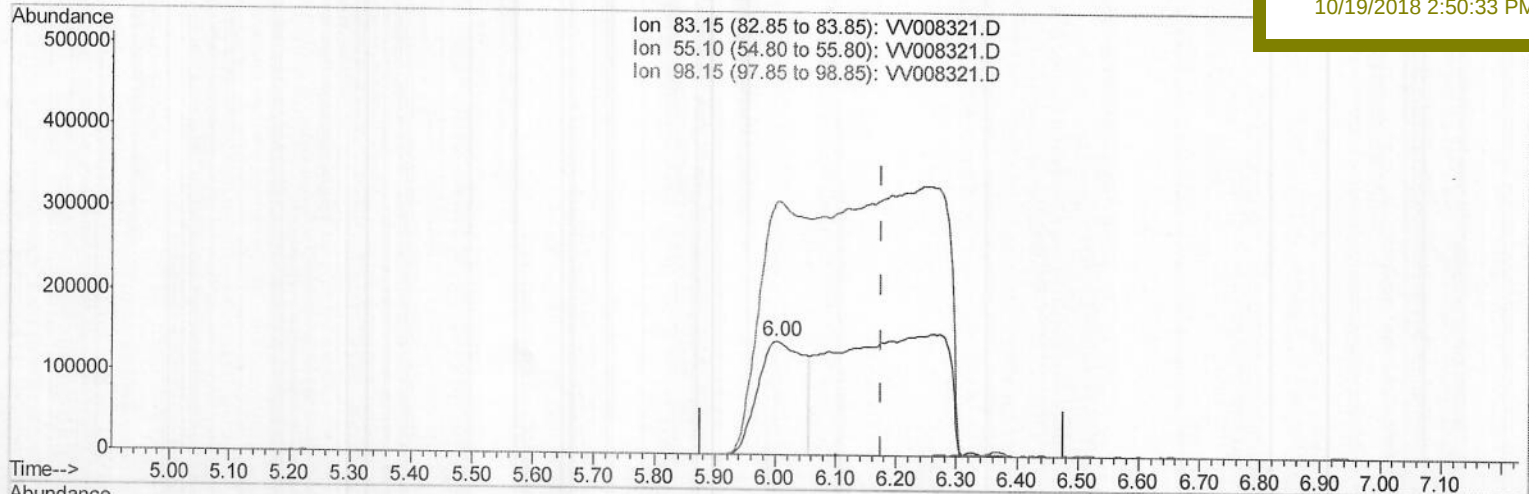
Response via : Initial Calibration

Instrument :

MSVOA\_V

ClientSampleId :

C0JB9

Manual Integrations  
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10/19/2018 2:50:33 PM

(35) Methylcyclohexane (T)

6.000min (-0.177) 58.36ug/L

response 732163

| Ion   | Exp%  | Act%    |
|-------|-------|---------|
| 83.15 | 100   | 100     |
| 55.10 | 80.00 | 0.23#   |
| 98.15 | 46.20 | 230.81# |
| 0.00  | 0.00  | 0.00    |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101618\

Data File : VV008321.D

Acq On : 17 Oct 2018 03:12

Operator : SY/MD

Sample : J5463-08

Misc : 25.0 mL/MSVOA V/WATER

ALS Vial : 38 Sample Multiplier: 1

Quant Time: Oct 17 07:00:23 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101518WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Wed Oct 17 05:02:19 2018

Response via : Initial Calibration

Instrument :

MSVOA\_V

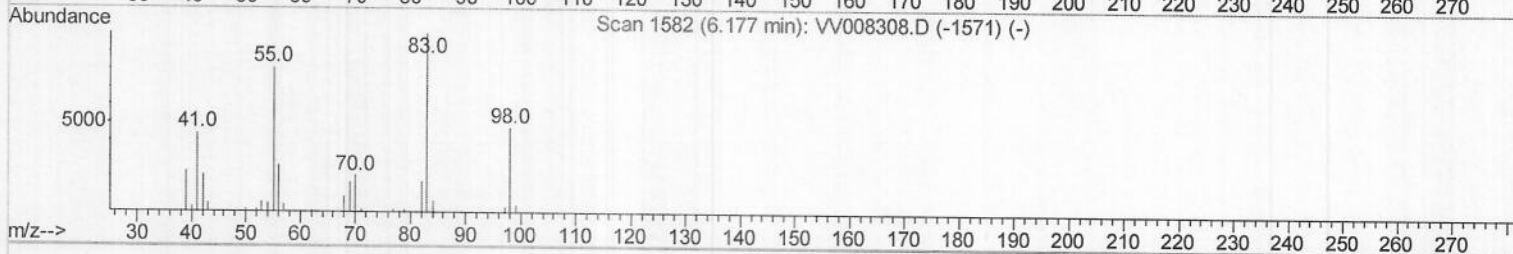
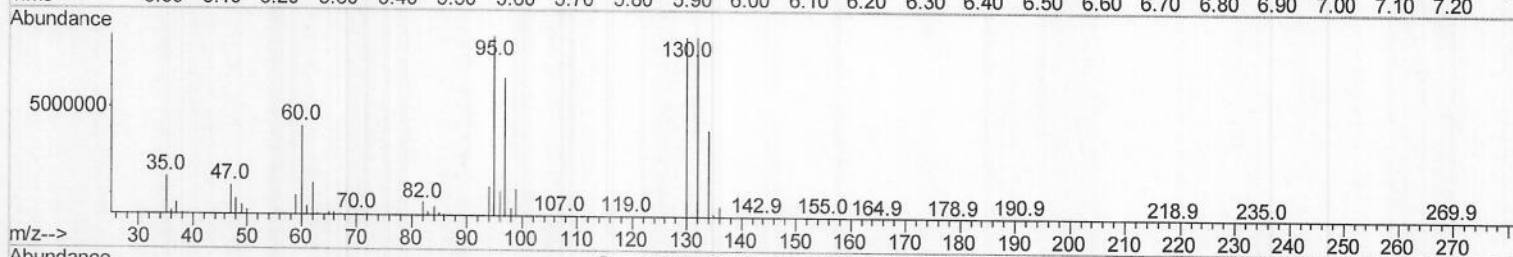
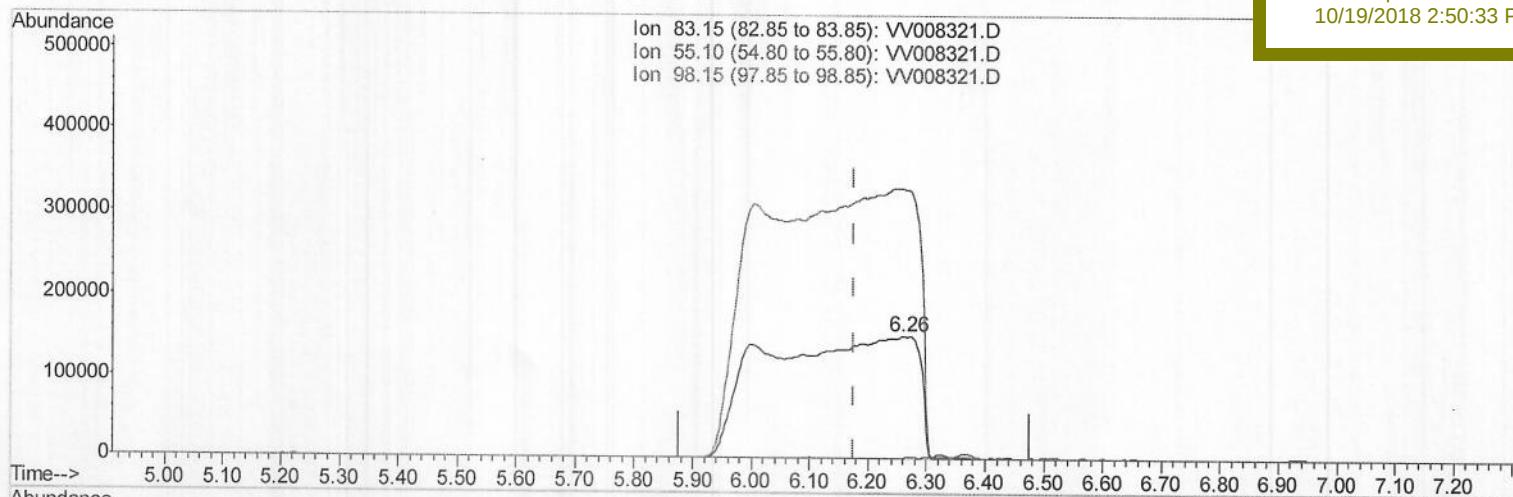
ClientSampleId :

C0JB9

Manual Integrations  
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(35) Methylcyclohexane (T)

6.261min (+0.084) 216.42ug/L m) MD 10/23/18

response 2715264

| Ion   | Exp%  | Act%   |
|-------|-------|--------|
| 83.15 | 100   | 100    |
| 55.10 | 80.00 | 0.06#  |
| 98.15 | 46.20 | 62.24# |
| 0.00  | 0.00  | 0.00   |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101618\  
 Data File : VV008321.D  
 Acq On : 17 Oct 2018 03:12  
 Operator : SY/MD  
 Sample : J5463-08  
 Misc : 25.0 mL/MSVOA V/WATER  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 Client Sample ID :  
 C0JB9

Quant Time: Oct 17 07:09:04 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR101518WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Wed Oct 17 05:02:19 2018  
 Response via : Initial Calibration

Manual Integrations  
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| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.69  | 114  | 79810m)  | 5.00 | ug/L  | 0.02     |
| 28) Chlorobenzene-d5       | 8.91  | 117  | 79670    | 5.00 | ug/L  | 0.01     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 39180    | 5.00 | ug/L  | 0.00     |

} MD10/23/18

## System Monitoring Compounds

|                                |        |       |          |          |      |           |
|--------------------------------|--------|-------|----------|----------|------|-----------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 24505    | 5.43     | ug/L | 0.00      |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 108.60%   |
| 7) Chloroethane-d5             | 1.58   | 69    | 15575    | 4.38     | ug/L | 0.00      |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 87.60%    |
| 11) 1,1-Dichloroethene-d2      | 2.14   | 63    | 58451    | 6.75     | ug/L | 0.00      |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 135.00%#  |
| 20) 2-Butanone-d5              | 4.00   | 46    | 72798    | 48.12    | ug/L | 0.02      |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 96.24%    |
| 24) Chloroform-d               | 4.43   | 84    | 49923    | 4.95     | ug/L | 0.02      |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.00%    |
| 26) 1,2-Dichloroethane-d4      | 5.11   | 65    | 25013    | 4.89     | ug/L | 0.02      |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 97.80%    |
| 32) Benzene-d6                 | 5.16   | 84    | 95025m)  | 4.06     | ug/L | 0.06      |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 81.20%    |
| 36) 1,2-Dichloropropane-d6     | 5.99   | 67    | 760043m) | 98.69    | ug/L | -0.13     |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 1973.80%# |
| 41) Toluene-d8                 | 7.39   | 98    | 87209    | 4.11     | ug/L | 0.03      |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 82.20%    |
| 43) trans-1,3-Dichloropropene- | 7.69   | 79    | 13182    | 4.13     | ug/L | 0.02      |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 82.60%    |
| 46) 2-Hexanone-d5              | 8.15   | 63    | 64662    | 57.73    | ug/L | 0.00      |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 115.46%   |
| 57) 1,1,2,2-Tetrachloroethane- | 10.27  | 84    | 26203    | 5.12     | ug/L | 0.00      |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 102.40%   |
| 64) 1,2-Dichlorobenzene-d4     | 11.68  | 152   | 31675    | 4.26     | ug/L | 0.00      |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 85.20%    |

} MD10/23/18

## Target Compounds

|                              |      |     |             |           | Ovalue    |
|------------------------------|------|-----|-------------|-----------|-----------|
| 5) Vinyl chloride            | 1.32 | 62  | 472210      | 79.520    | ug/L 99   |
| 12) 1,1-Dichloroethene       | 2.15 | 96  | 43225       | 11.274    | ug/L 84   |
| 13) Acetone                  | 2.21 | 43  | 5511        | 6.733     | ug/L 88   |
| 14) Carbon disulfide         | 2.33 | 76  | 4327        | 0.328     | ug/L # 86 |
| 16) Methylene chloride       | 2.55 | 84  | 1493        | 0.336     | ug/L 78   |
| 18) trans-1,2-Dichloroethene | 2.80 | 96  | 124018      | 30.065    | ug/L 95   |
| 19) 1,1-Dichloroethane       | 3.24 | 63  | 78342       | 9.193     | ug/L 96   |
| 22) cis-1,2-Dichloroethene   | 3.99 | 96  | 26383351    | 3961.500  | ug/L # 91 |
| 25) Chloroform               | 4.45 | 83  | 168774      | 16.157    | ug/L 98   |
| 29) 1,1,1-Trichloroethane    | 4.70 | 97  | 63451       | 6.395     | ug/L 98   |
| 31) Carbon tetrachloride     | 4.94 | 117 | 3306m)      | 0.396     | ug/L      |
| 33) Benzene                  | 5.23 | 78  | 12066m)     | 0.449     | ug/L      |
| 34) Trichloroethene          | 5.99 | 95  | 164898200m) | 22163.836 | ug/L 98   |
| 42) Toluene                  | 7.46 | 91  | 6175671     | 220.679   | ug/L 97   |
| 45) 1,1,2-Trichloroethane    | 7.90 | 97  | 168340      | 37.434    | ug/L 97   |
| 47) Tetrachloroethene        | 8.04 | 164 | 1278999     | 274.379   | ug/L 97   |
| 52) Ethylbenzene             | 9.07 | 91  | 598448      | 19.448    | ug/L 99   |

} MD10/23/18

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QLast Update : Wed Oct 17 05:02:19 2018  
Response via : Initial Calibration

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0JB9

Manual Integrations  
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| Internal Standards      | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| 53) m,p-xylene          | 9.19  | 106  | 475501   | 42.722 | uq/L  | 98       |
| 54) o-xylene            | 9.60  | 106  | 245388   | 22.129 | uq/L  | 99       |
| 56) Isopropylbenzene    | 9.98  | 105  | 28978    | 0.992  | uq/L  | 97       |
| 65) 1,2-Dichlorobenzene | 11.70 | 146  | 2890     | 0.227  | uq/L  | 92       |

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