

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_W\DATA\VW121718\  
 Data File : VW007580.D  
 Acq On : 15 Dec 2018 14:26  
 Operator : SY/AP  
 Sample : J6353-04  
 Misc : 5.28G/5ML/MSVOA\_W/SOIL  
 ALS Vial : 66 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 P001-SS001-0002-02

Manual Integrations  
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Quant Time: Dec 15 22:10:55 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W121118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 11 02:58:16 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.95  | 168  | 76851    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.84  | 114  | 135009   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.63 | 117  | 87592    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.56 | 152  | 22365    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

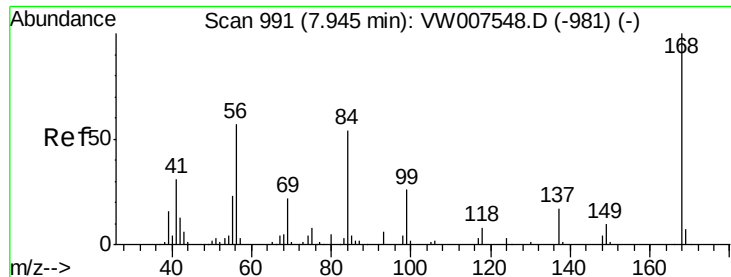
|                           |       |     |          |       |         |      |
|---------------------------|-------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.31  | 65  | 49114    | 57.60 | ug/l    | 0.00 |
| Spiked Amount             |       |     | Recovery | =     | 115.20% |      |
| 35) Dibromofluoromethane  | 7.88  | 113 | 43649    | 53.41 | ug/l    | 0.00 |
| Spiked Amount             |       |     | Recovery | =     | 106.82% |      |
| 50) Toluene-d8            | 10.32 | 98  | 138474   | 45.19 | ug/l    | 0.00 |
| Spiked Amount             |       |     | Recovery | =     | 90.38%  |      |
| 62) 4-Bromofluorobenzene  | 12.62 | 95  | 37475    | 33.26 | ug/l    | 0.00 |
| Spiked Amount             |       |     | Recovery | =     | 66.52%  |      |

## Target Compounds

|                            |       |     |        |                | Qvalue |
|----------------------------|-------|-----|--------|----------------|--------|
| 12) 1,1-Dichloroethene     | 4.04  | 96  | 2768   | 3.672 ug/l     | 99     |
| 16) Acetone                | 4.11  | 43  | 20202  | 135.653 ug/l # | 72     |
| 31) Cyclohexane            | 7.95  | 56  | 52173  | 39.391 ug/l #  | 94     |
| 39) Methylcyclohexane      | 9.34  | 83  | 44432  | 29.793 ug/l    | 97     |
| 40) Benzene                | 8.32  | 78  | 23863  | 6.982 ug/l     | 98     |
| 52) Toluene                | 10.39 | 92  | 553427 | 250.206 ug/l   | 100    |
| 67) Ethyl Benzene          | 11.73 | 91  | 431058 | 137.329 ug/l   | 92     |
| 68) m/p-Xylenes            | 11.85 | 106 | 119708 | 98.100 ug/l    | 98     |
| 69) o-Xylene               | 12.17 | 106 | 346689 | 304.209 ug/l   | 96     |
| 73) Isopropylbenzene       | 12.47 | 105 | 46531  | 27.152 ug/l    | 99     |
| 78) n-propylbenzene        | 12.80 | 91  | 137533 | 71.312 ug/l    | 100    |
| 80) 1,3,5-Trimethylbenzene | 12.94 | 105 | 235112 | 163.281 ug/l   | 99     |
| 84) 1,2,4-Trimethylbenzene | 13.26 | 105 | 27776  | 18.745 ug/l    | 98     |
| 85) sec-Butylbenzene       | 13.39 | 105 | 7041m  | 4.065 ug/l     |        |
| 86) p-Isopropyltoluene     | 13.50 | 119 | 5578   | 3.585 ug/l     | 96     |
| 95) Naphthalene            | 15.37 | 128 | 23137  | 25.908 ug/l    | 98     |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW007580.D

Acq: 15 Dec 2018 14:26

Instrument :

MSVOA\_W

ClientSampleId :

P001-SS001-0002-02

Tgt Ion: 168 Resp: 76851

Ion Ratio Lower Upper

168 100

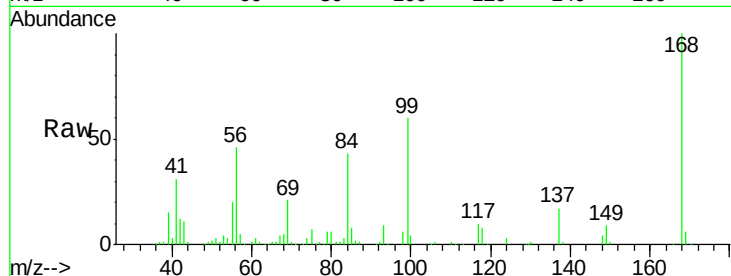
99 59.8 48.3 72.5

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

40000

30000

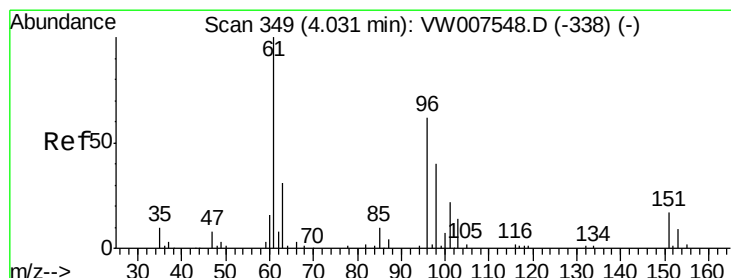
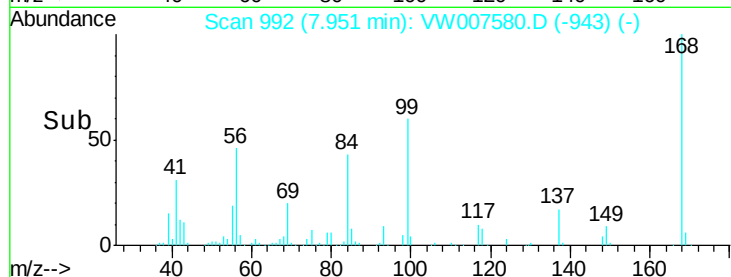
20000

10000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#12

1,1-Dichloroethene

Concen: 3.672 ug/l

RT: 4.04 min Scan# 351

Delta R.T. 0.01 min

Lab File: VW007580.D

Acq: 15 Dec 2018 14:26

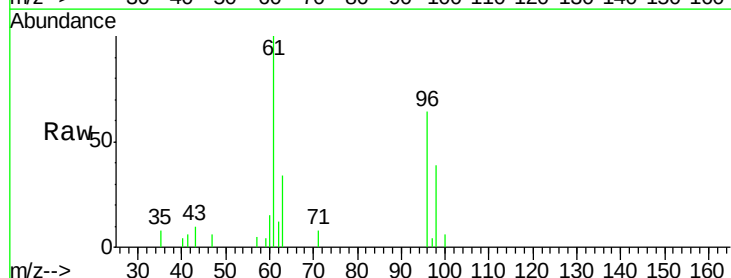
Tgt Ion: 96 Resp: 2768

Ion Ratio Lower Upper

96 100

61 156.3 126.2 189.2

98 60.7 48.3 72.5



Abundance Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW

2000

1500

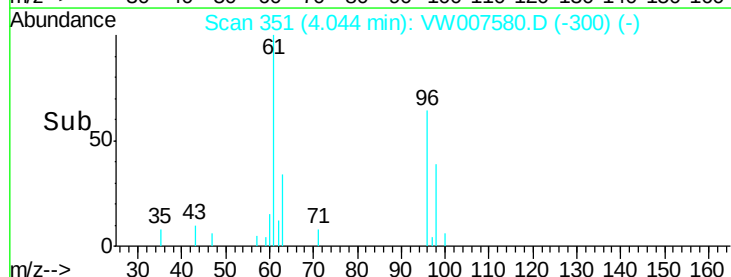
1000

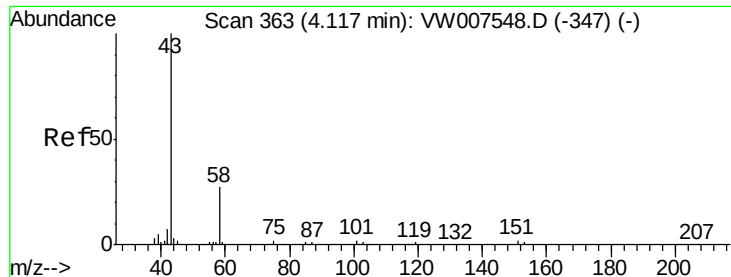
500

0

3.95 4.00 4.05 4.10 4.15

Time-->





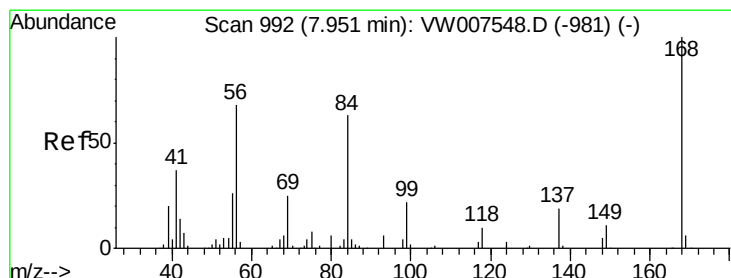
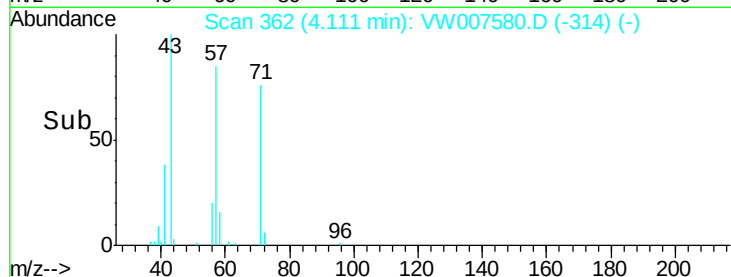
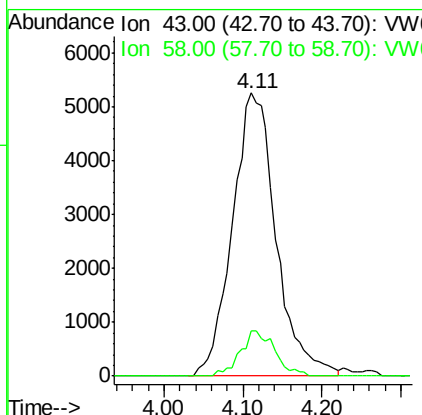
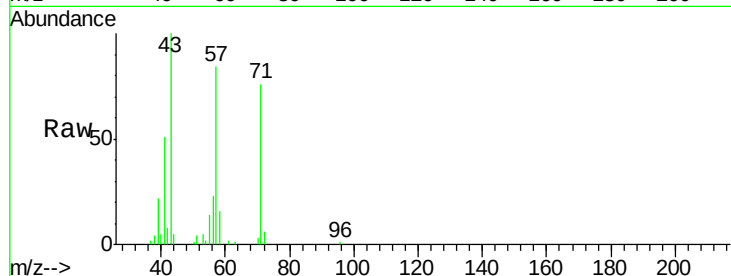
#16  
Acetone  
Concen: 135.653 ug/l  
RT: 4.11 min Scan# 362  
Delta R.T. -0.01 min  
Lab File: VW007580.D  
Acq: 15 Dec 2018 14:26

Instrument :  
MSVOA\_W  
ClientSampleId :  
P001-SS001-0002-02

Tgt Ion: 43 Resp: 20202  
Ion Ratio Lower Upper  
43 100  
58 15.9 24.9 37.3#

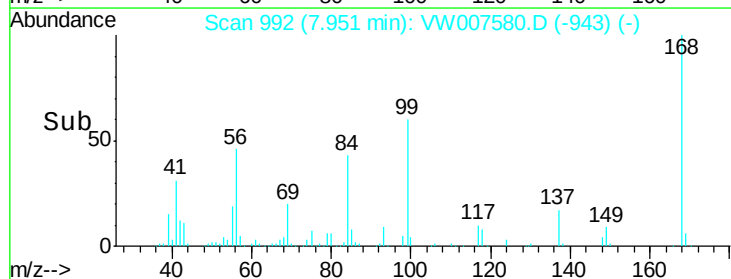
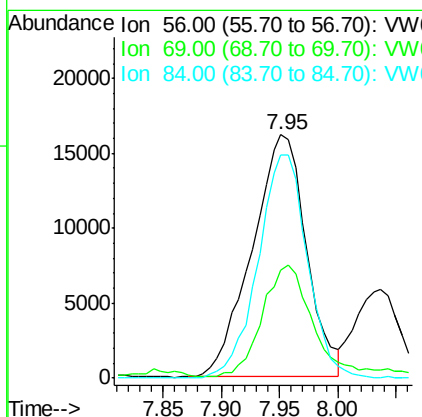
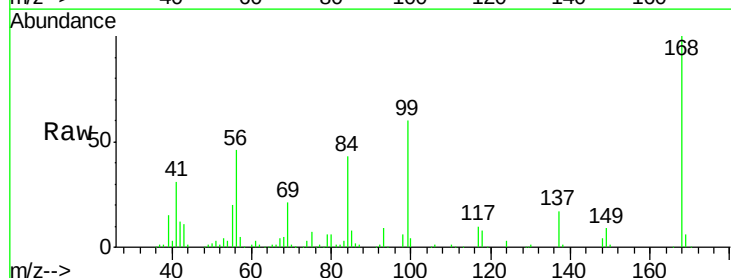
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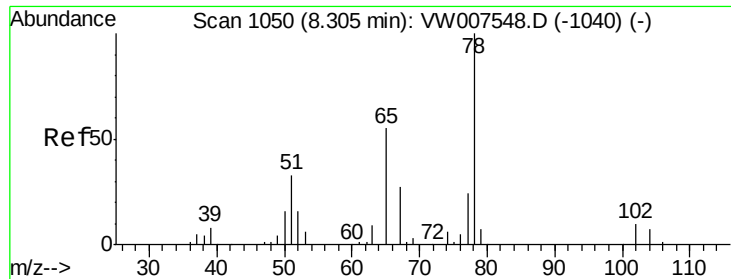
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#31  
Cyclohexane  
Concen: 39.391 ug/l  
RT: 7.95 min Scan# 992  
Delta R.T. -0.00 min  
Lab File: VW007580.D  
Acq: 15 Dec 2018 14:26

Tgt Ion: 56 Resp: 52173  
Ion Ratio Lower Upper  
56 100  
69 43.8 28.9 43.3#  
84 92.3 71.8 107.6





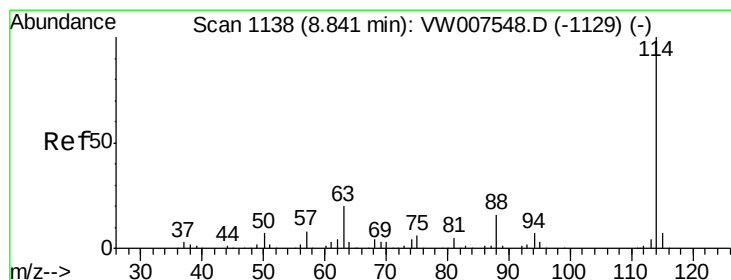
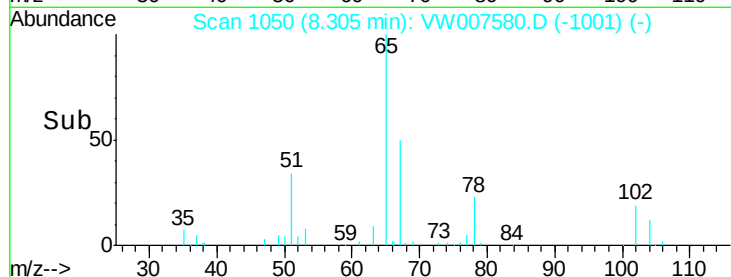
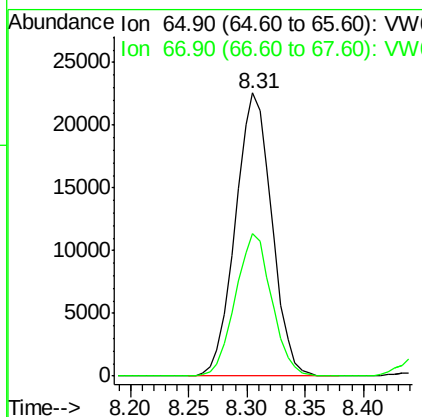
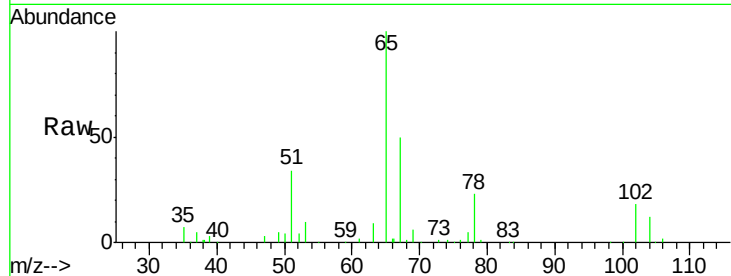
#33  
 1,2-Dichloroethane-d4  
 Concen: 57.605 ug/l  
 RT: 8.31 min Scan# 1050  
 Delta R.T. -0.00 min  
 Lab File: VW007580.D  
 Acq: 15 Dec 2018 14:26

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 P001-SS001-0002-02

Tgt Ion: 65 Resp: 49114  
 Ion Ratio Lower Upper  
 65 100  
 67 50.4 0.0 101.6

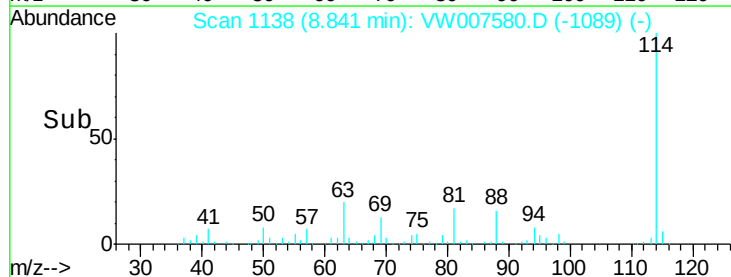
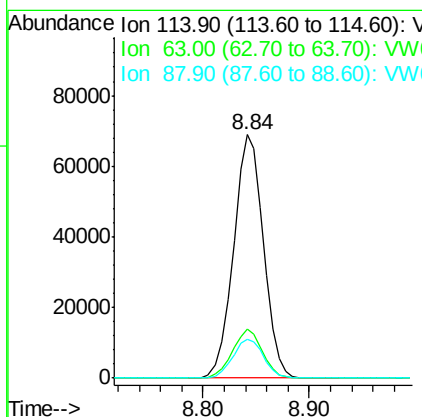
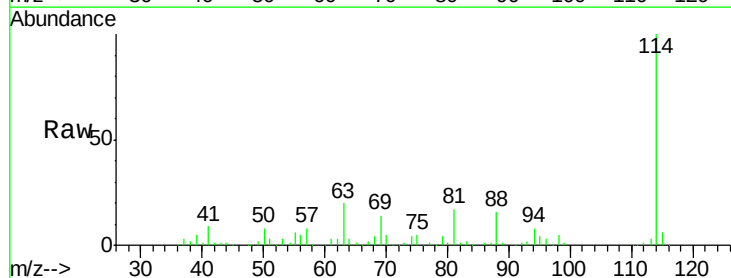
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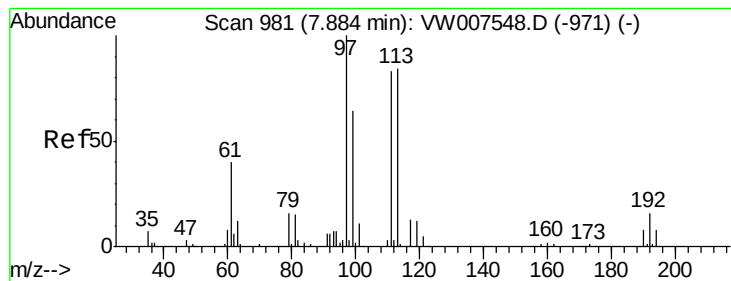
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.84 min Scan# 1138  
 Delta R.T. -0.00 min  
 Lab File: VW007580.D  
 Acq: 15 Dec 2018 14:26

Tgt Ion: 114 Resp: 135009  
 Ion Ratio Lower Upper  
 114 100  
 63 20.3 0.0 39.6  
 88 15.8 0.0 31.4





#35

Dibromofluoromethane

Concen: 53.409 ug/l

RT: 7.88 min Scan# 981

Delta R.T. -0.00 min

Lab File: VW007580.D

Acq: 15 Dec 2018 14:26

Instrument :

MSVOA\_W

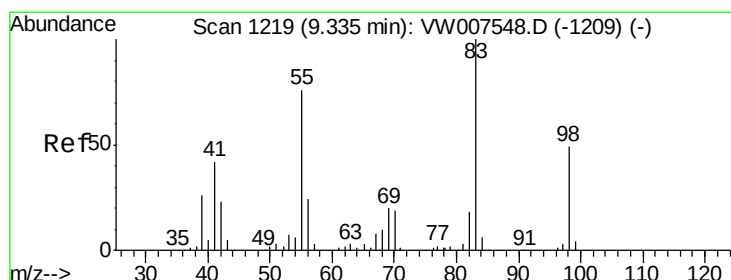
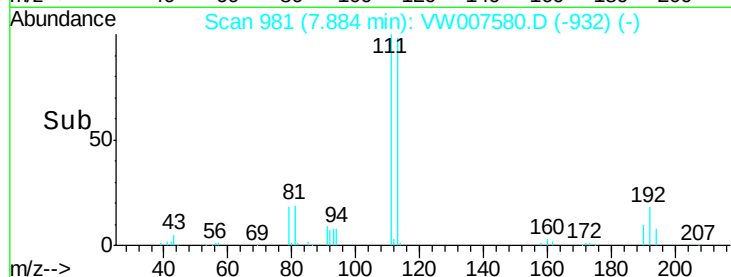
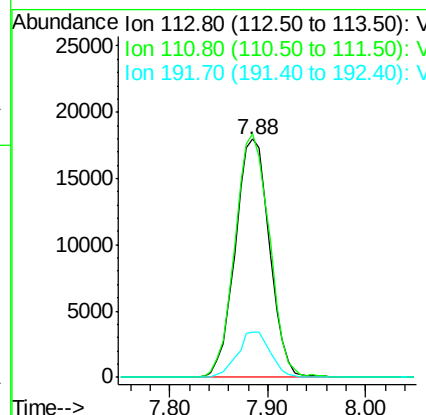
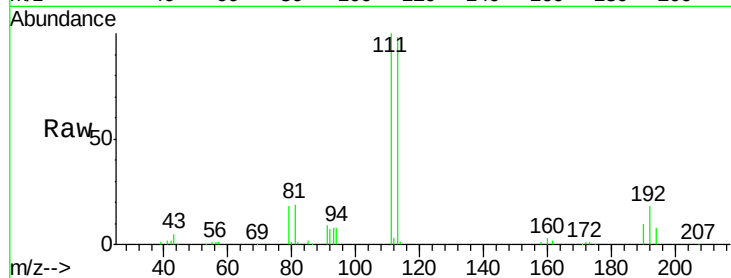
ClientSampleId :

P001-SS001-0002-02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 43649 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 102.6 | 81.1  | 121.7 |
| 192      | 18.2  | 14.6  | 21.8  |

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#39

Methylcyclohexane

Concen: 29.793 ug/l

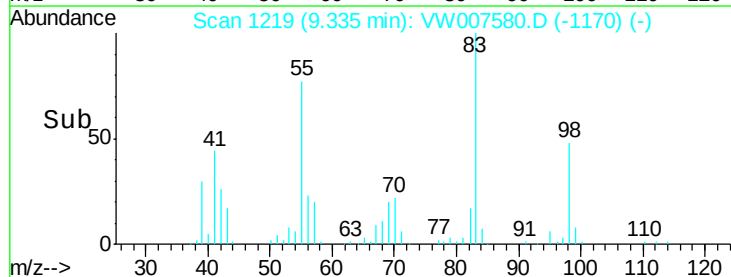
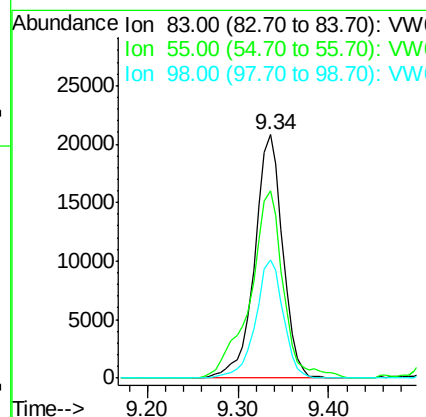
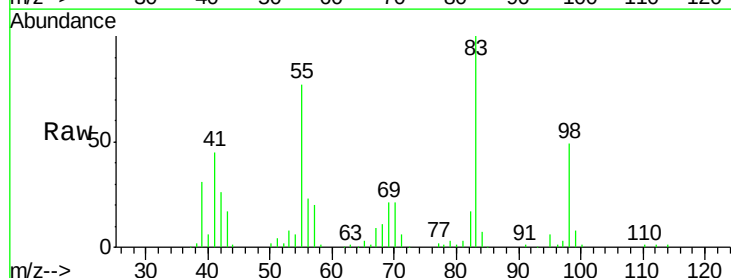
RT: 9.34 min Scan# 1219

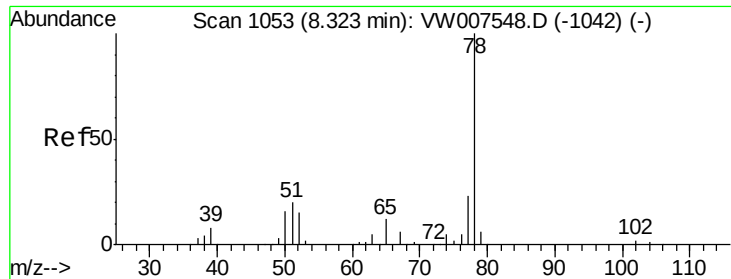
Delta R.T. -0.00 min

Lab File: VW007580.D

Acq: 15 Dec 2018 14:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 44432 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 76.8  | 62.8  | 94.2  |
| 98       | 48.7  | 42.2  | 63.2  |





#40

Benzene

Concen: 6.982 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VW007580.D

Acq: 15 Dec 2018 14:26

Instrument :

MSVOA\_W

ClientSampleId :

P001-SS001-0002-02

Tgt Ion: 78 Resp: 23863

Ion Ratio Lower Upper

78 100

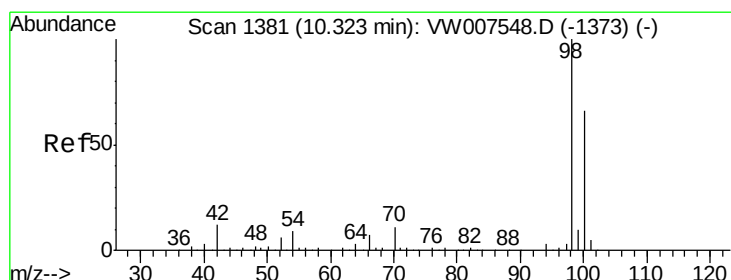
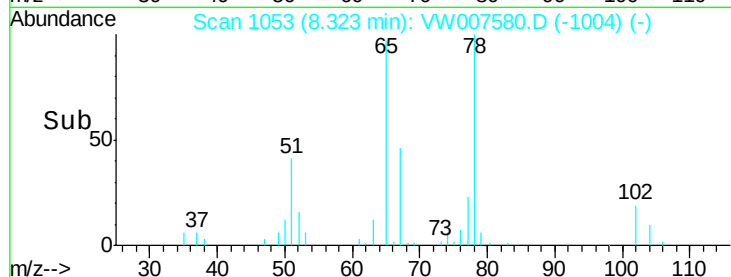
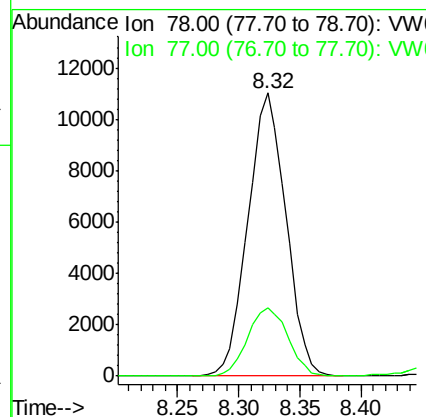
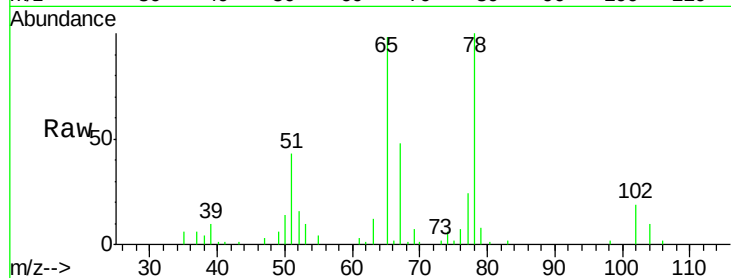
77 24.3 18.8 28.2

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#50

Toluene-d8

Concen: 45.190 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW007580.D

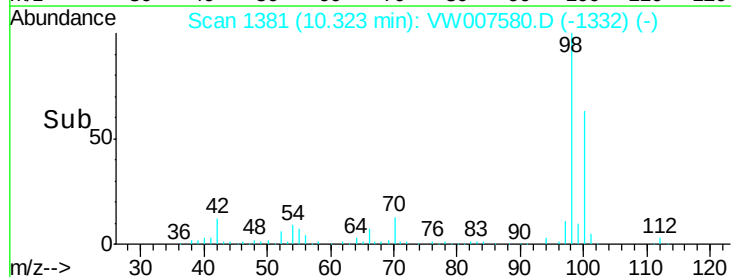
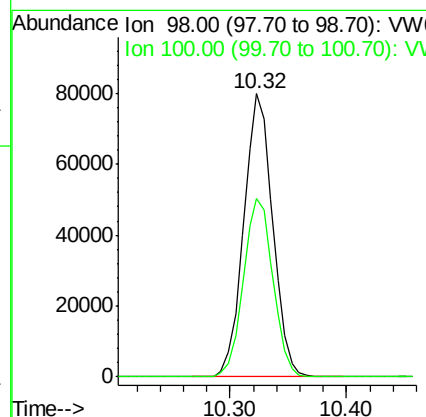
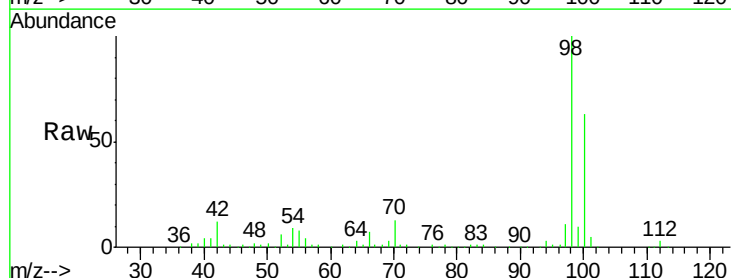
Acq: 15 Dec 2018 14:26

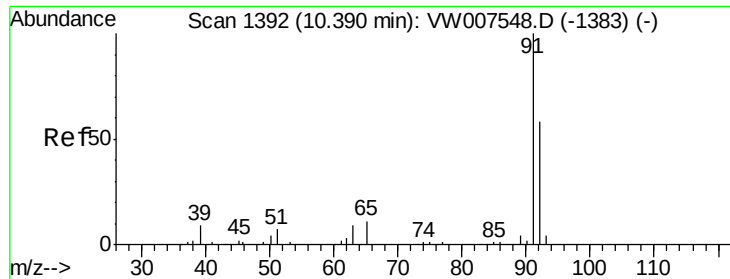
Tgt Ion: 98 Resp: 138474

Ion Ratio Lower Upper

98 100

100 64.2 51.8 77.8





#52

Toluene

Concen: 250.206 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW007580.D

Acq: 15 Dec 2018 14:26

Instrument :

MSVOA\_W

ClientSampleId :

P001-SS001-0002-02

Tgt Ion: 92 Resp: 553427

Ion Ratio Lower Upper

92 100

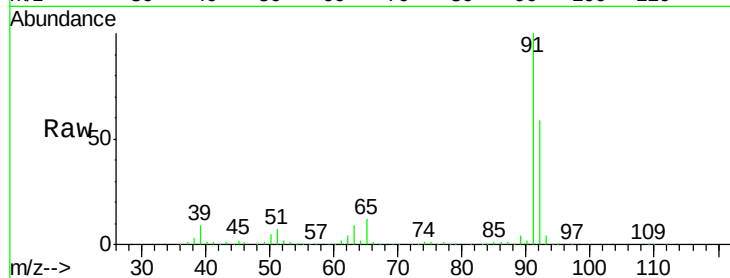
91 170.7 136.2 204.2

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Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

600000

500000

400000

300000

200000

100000

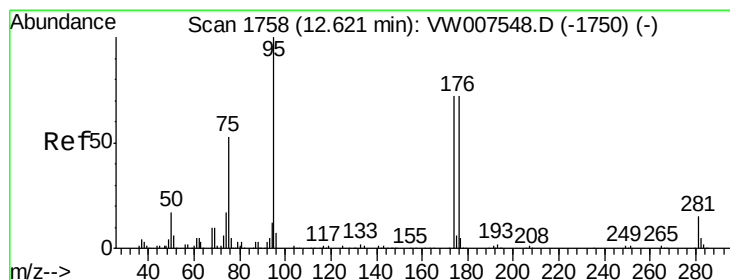
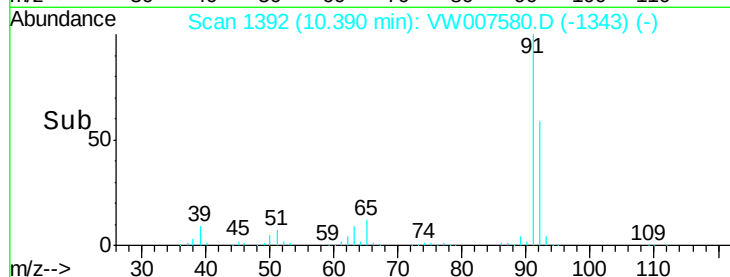
0

10.30

10.40

10.50

Time-->



#62

4-Bromofluorobenzene

Concen: 33.262 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW007580.D

Acq: 15 Dec 2018 14:26

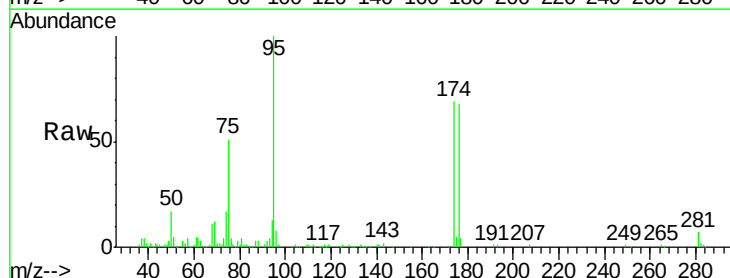
Tgt Ion: 95 Resp: 37475

Ion Ratio Lower Upper

95 100

174 71.6 0.0 147.2

176 71.1 0.0 138.8



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

30000

25000

20000

15000

10000

5000

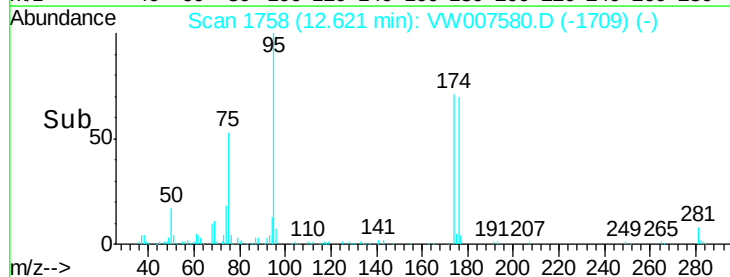
0

12.50

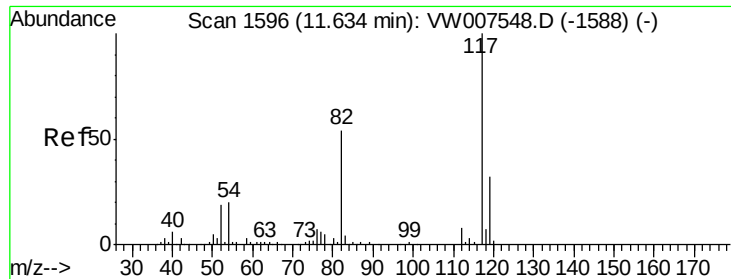
12.60

12.70

Time-->







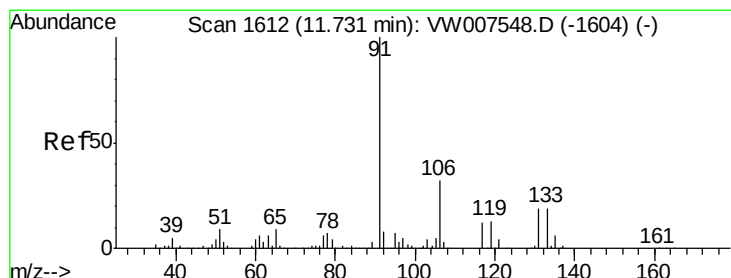
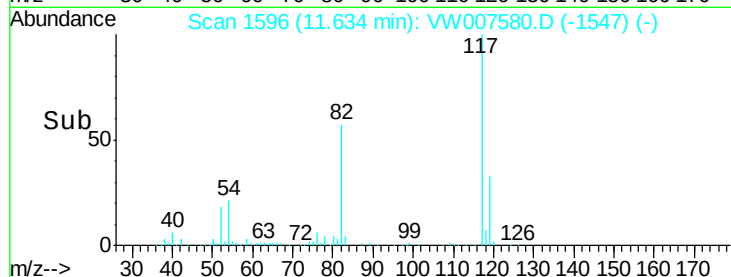
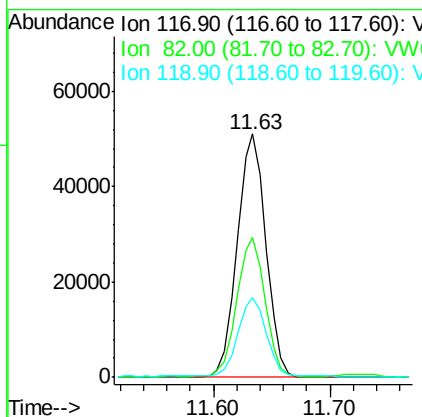
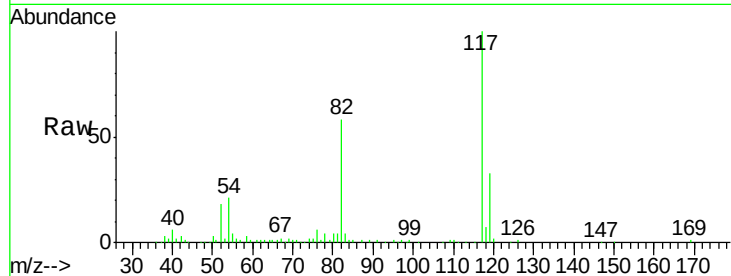
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. -0.00 min  
Lab File: VW007580.D  
Acq: 15 Dec 2018 14:26

Instrument :  
MSVOA\_W  
ClientSampleId :  
P001-SS001-0002-02

Tgt Ion: 117 Resp: 87592  
Ion Ratio Lower Upper  
117 100  
82 57.1 42.3 63.5  
119 32.2 23.0 34.6

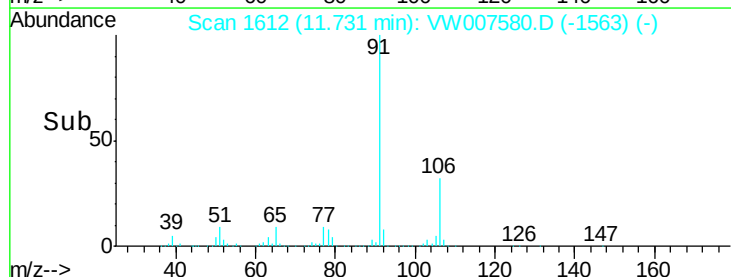
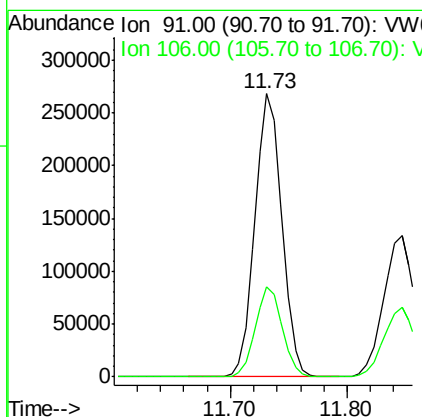
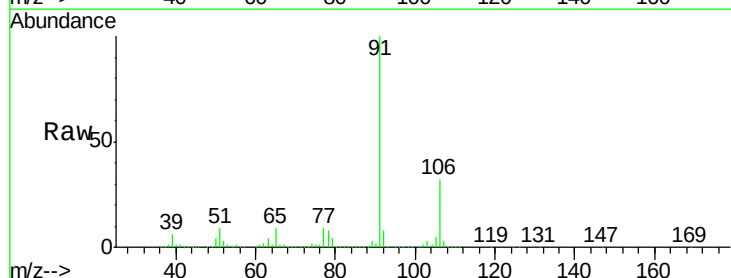
Manual Integrations  
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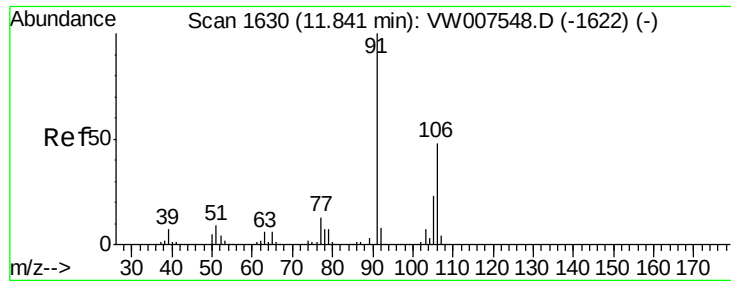
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#67  
Ethyl Benzene  
Concen: 137.329 ug/l  
RT: 11.73 min Scan# 1612  
Delta R.T. -0.00 min  
Lab File: VW007580.D  
Acq: 15 Dec 2018 14:26

Tgt Ion: 91 Resp: 431058  
Ion Ratio Lower Upper  
91 100  
106 31.7 21.8 32.8





#68

m/p-Xylenes

Concen: 98.100 ug/l

RT: 11.85 min Scan# 1631

Delta R.T. 0.01 min

Lab File: VW007580.D

Acq: 15 Dec 2018 14:26

Instrument :

MSVOA\_W

ClientSampleId :

P001-SS001-0002-02

Tgt Ion:106 Resp: 119708

Ion Ratio Lower Upper

106 100

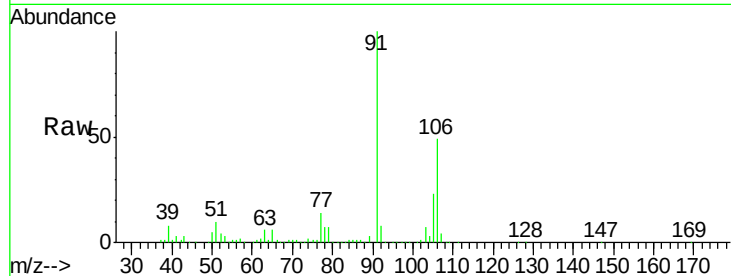
91 203.3 165.3 247.9

Manual Integrations

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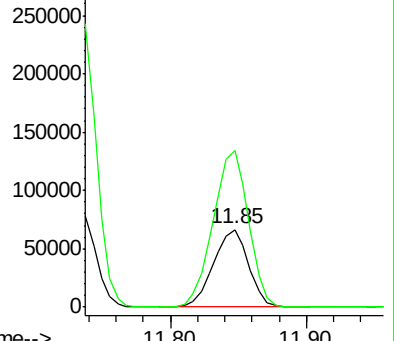
apatel

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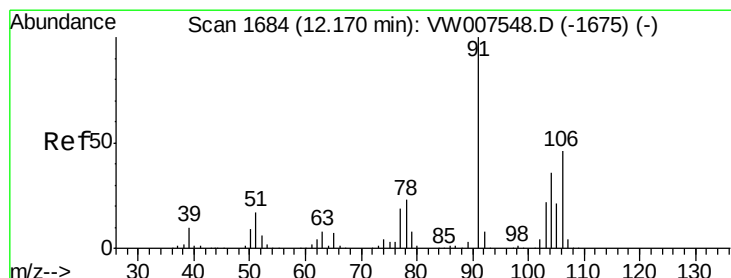
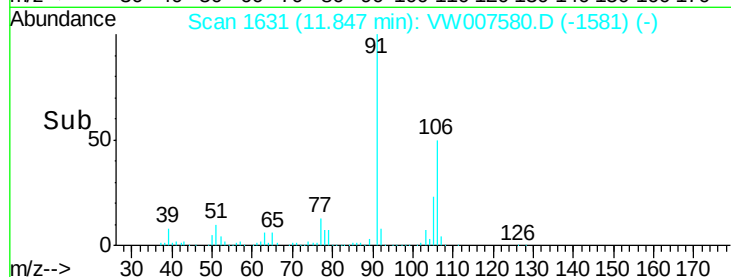


Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



Time-->



#69

o-Xylene

Concen: 304.209 ug/l

RT: 12.17 min Scan# 1684

Delta R.T. -0.00 min

Lab File: VW007580.D

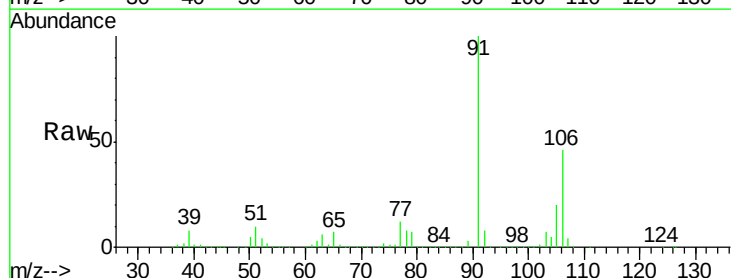
Acq: 15 Dec 2018 14:26

Tgt Ion:106 Resp: 346689

Ion Ratio Lower Upper

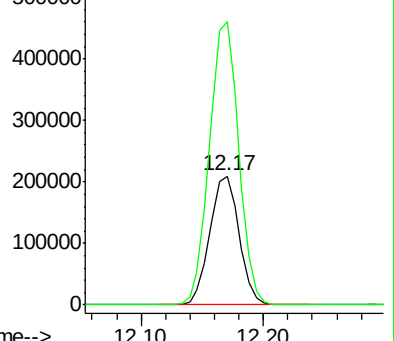
106 100

91 220.1 106.6 319.8

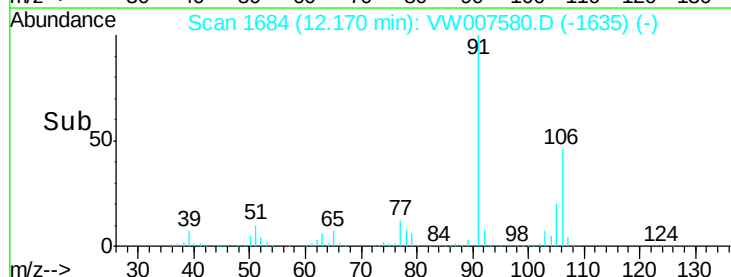


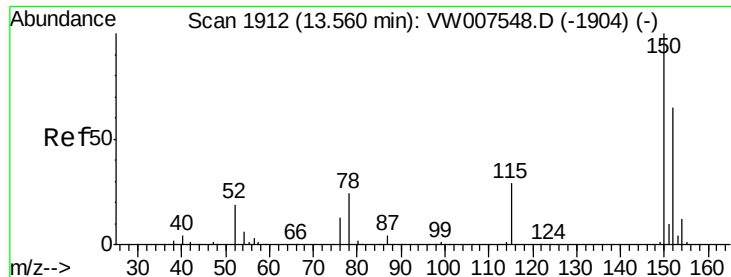
Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW007580.D

Acq: 15 Dec 2018 14:26

Instrument :

MSVOA\_W

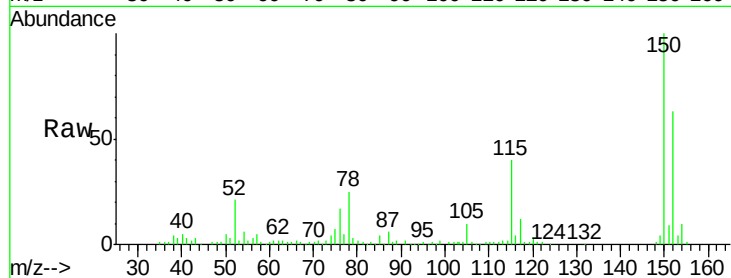
ClientSampleId :

P001-SS001-0002-02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 68.9  | 31.4  | 94.2  |
| 150     | 156.5 | 0.0   | 358.4 |

Manual Integrations  
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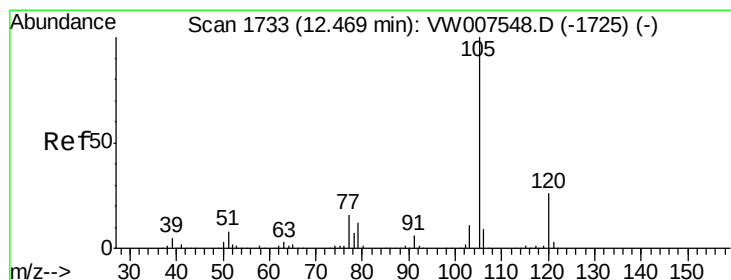
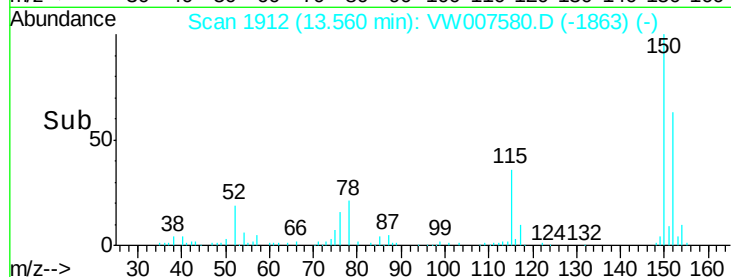
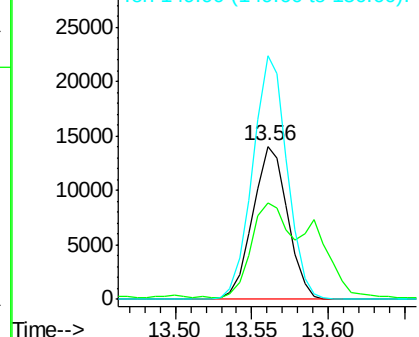
apatel  
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Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 27.152 ug/l

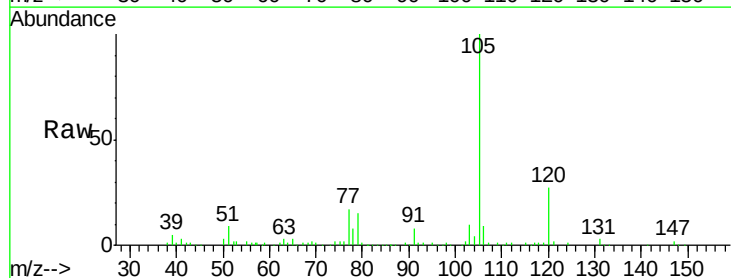
RT: 12.47 min Scan# 1733

Delta R.T. 0.01 min

Lab File: VW007580.D

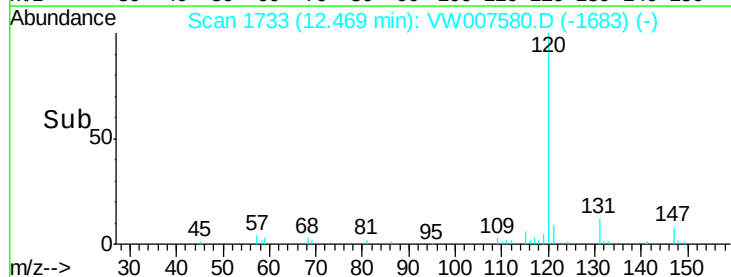
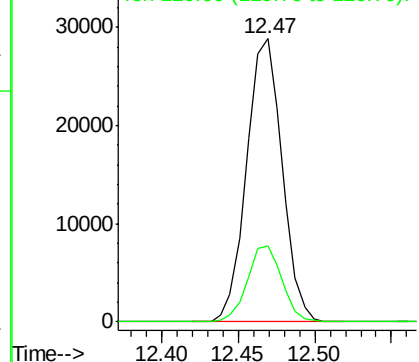
Acq: 15 Dec 2018 14:26

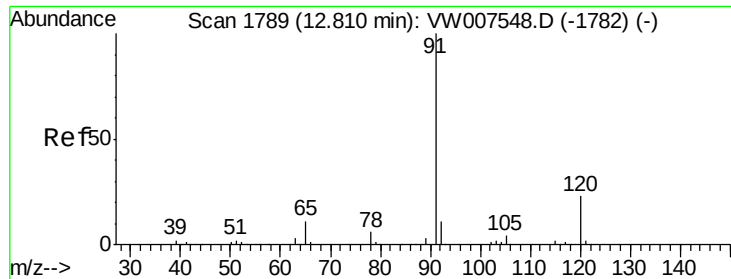
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.0  | 12.8  | 38.4  |



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





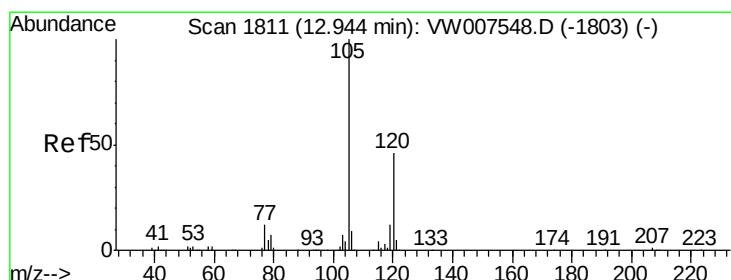
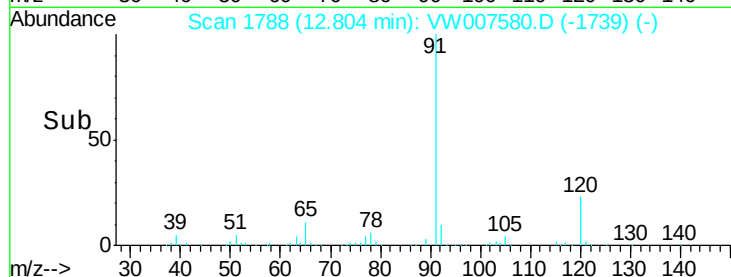
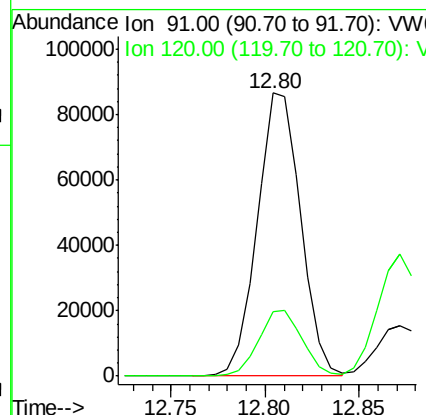
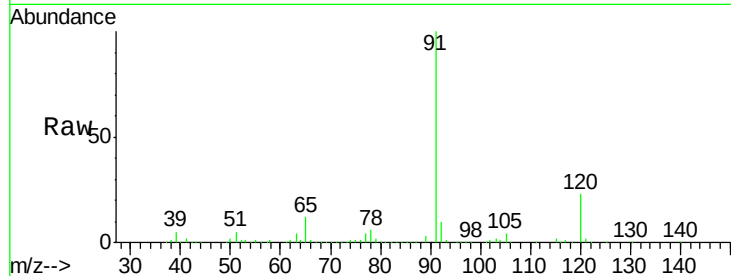
#78  
n-propylbenzene  
Concen: 71.312 ug/l  
RT: 12.80 min Scan# 1788  
Delta R.T. -0.00 min  
Lab File: VW007580.D  
Acq: 15 Dec 2018 14:26

Instrument :  
MSVOA\_W  
ClientSampleId :  
P001-SS001-0002-02

Tgt Ion: 91 Resp: 137533  
Ion Ratio Lower Upper  
91 100  
120 23.6 11.9 35.5

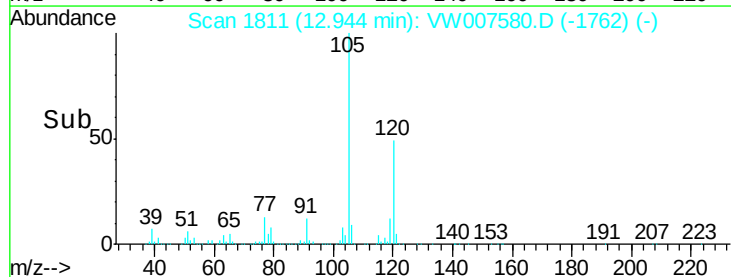
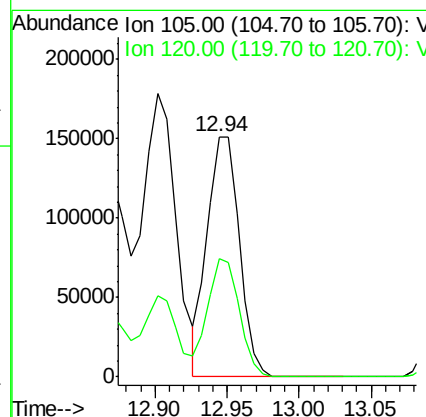
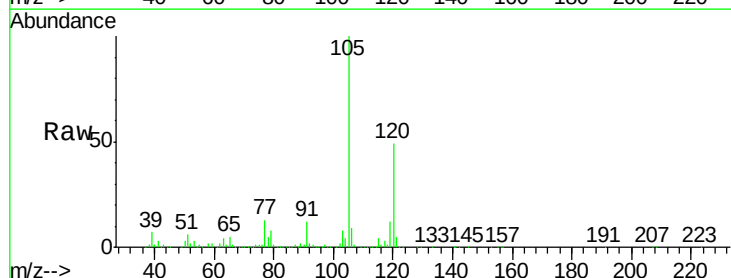
Manual Integrations  
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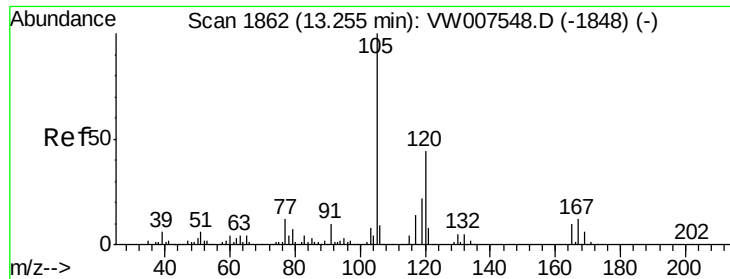
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#80  
1,3,5-Trimethylbenzene  
Concen: 163.281 ug/l  
RT: 12.94 min Scan# 1811  
Delta R.T. -0.00 min  
Lab File: VW007580.D  
Acq: 15 Dec 2018 14:26

Tgt Ion: 105 Resp: 235112  
Ion Ratio Lower Upper  
105 100  
120 48.2 23.8 71.4





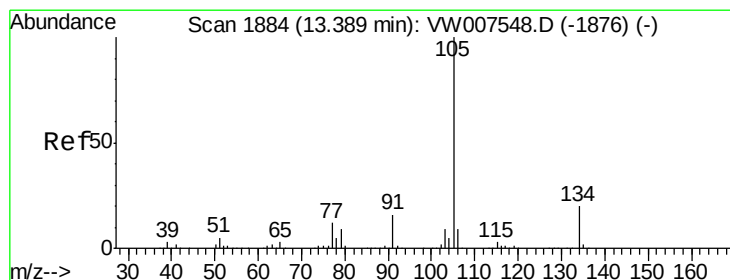
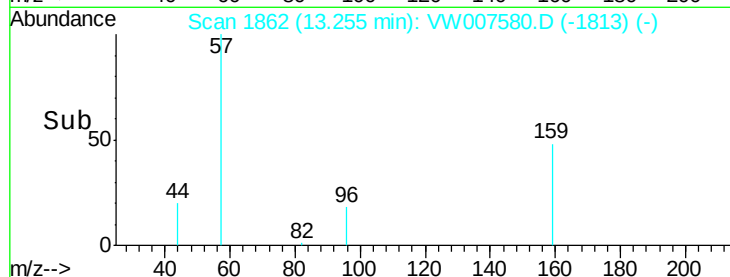
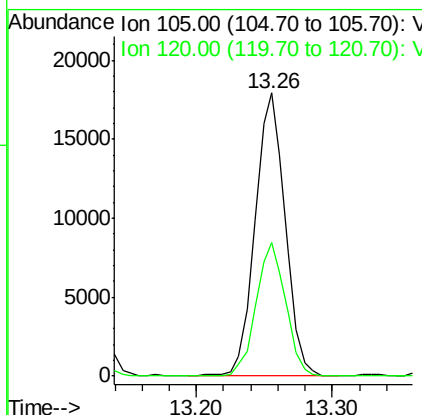
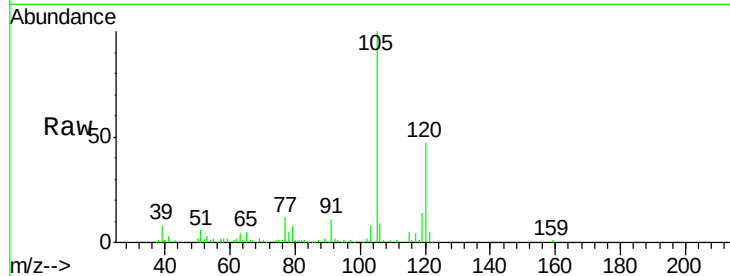
#84  
1,2,4-Trimethylbenzene  
Concen: 18.745 ug/l  
RT: 13.26 min Scan# 1862  
Delta R.T. -0.00 min  
Lab File: VW007580.D  
Acq: 15 Dec 2018 14:26

Instrument :  
MSVOA\_W  
ClientSampleId :  
P001-SS001-0002-02

Tgt Ion:105 Resp: 27776  
Ion Ratio Lower Upper  
105 100  
120 46.3 22.6 67.7

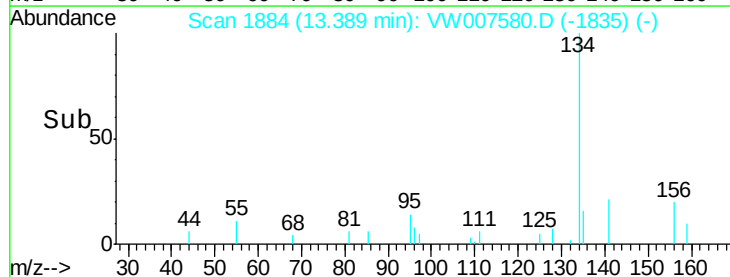
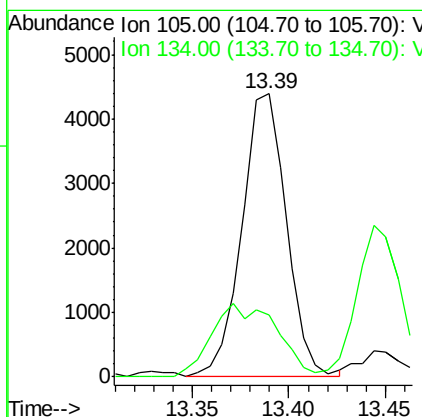
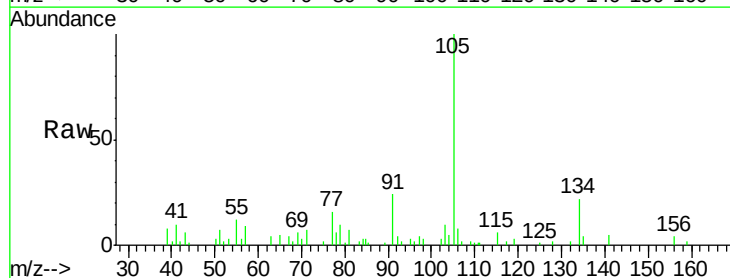
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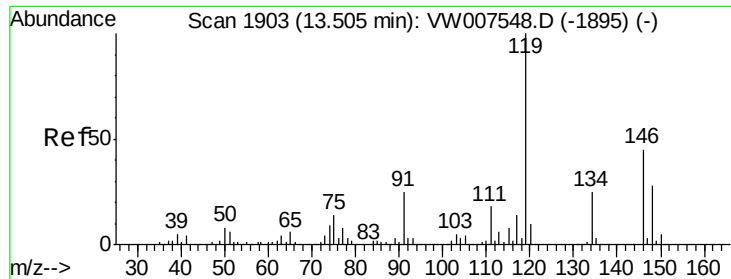
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#85  
sec-Butylbenzene  
Concen: 4.065 ug/l m  
RT: 13.39 min Scan# 1884  
Delta R.T. -0.00 min  
Lab File: VW007580.D  
Acq: 15 Dec 2018 14:26

Tgt Ion:105 Resp: 7041  
Ion Ratio Lower Upper  
105 100  
134 0.0 11.1 33.3#





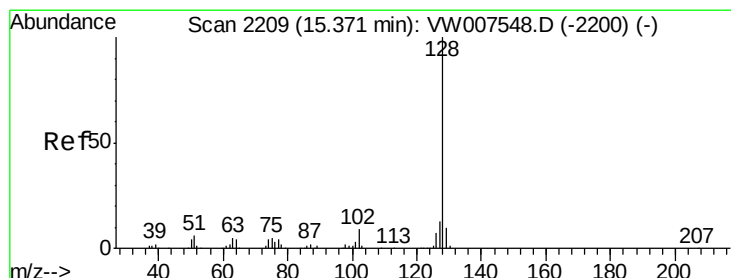
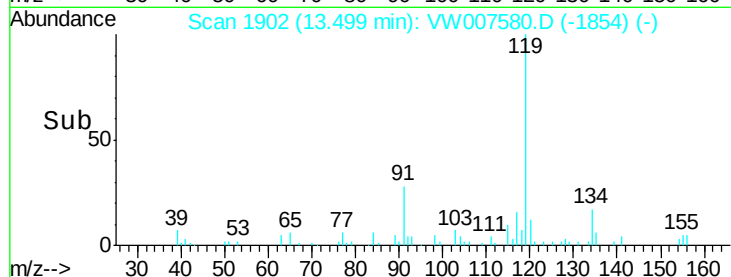
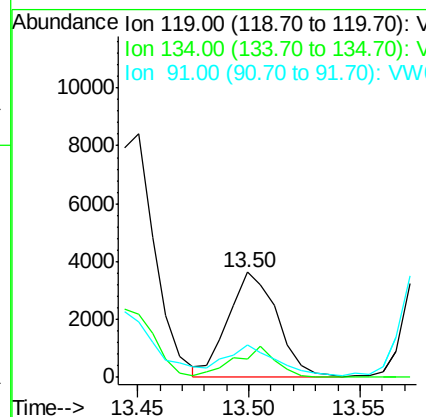
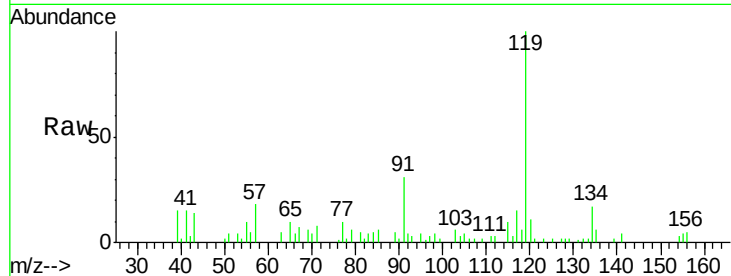
#86  
p-Isopropyltoluene  
Concen: 3.585 ug/l  
RT: 13.50 min Scan# 1902  
Delta R.T. -0.01 min  
Lab File: VW007580.D  
Acq: 15 Dec 2018 14:26

Instrument :  
MSVOA\_W  
ClientSampleId :  
P001-SS001-0002-02

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 119   | Resp: | 5578 |
| Ion Ratio | Lower | Upper |      |
| 119       | 100   |       |      |
| 134       | 25.7  | 12.9  | 38.7 |
| 91        | 27.9  | 11.9  | 35.9 |

Manual Integrations  
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#95  
Naphthalene  
Concen: 25.908 ug/l  
RT: 15.37 min Scan# 2209  
Delta R.T. -0.00 min  
Lab File: VW007580.D  
Acq: 15 Dec 2018 14:26

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 23137 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 14.0  | 10.2  | 15.4  |
| 129       | 11.0  | 8.3   | 12.5  |

