

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW062318\  
 Data File : VW003481.D  
 Acq On : 24 Jun 2018 01:55  
 Operator : SY/AP  
 Sample : J3670-01  
 Misc : 6.55G/5ML/MSVOA W/SOIL  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WP021SB487-13-15-180621

Manual Integrations  
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apatel  
 6/26/2018 11:24:54 AM

Quant Time: Jun 25 04:33:40 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W061318S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 16 05:18:54 2018  
 Response via : Initial Calibration

| Internal Standards           | R.T.   | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|--------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene        | 7.95   | 168  | 165320   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.85   | 114  | 268590   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5         | 11.63  | 117  | 255016   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.57  | 152  | 133669   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds  |        |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4    | 8.31   | 65   | 102299   | 57.13  | ug/l    | 0.00     |
| Spiked Amount                | 50.000 |      | Recovery | =      | 114.26% |          |
| 35) Dibromofluoromethane     | 7.89   | 113  | 84032    | 50.35  | ug/l    | 0.00     |
| Spiked Amount                | 50.000 |      | Recovery | =      | 100.70% |          |
| 50) Toluene-d8               | 10.33  | 98   | 297662   | 44.98  | ug/l    | 0.00     |
| Spiked Amount                | 50.000 |      | Recovery | =      | 89.96%  |          |
| 62) 4-Bromofluorobenzene     | 12.63  | 95   | 117838   | 50.32  | ug/l    | 0.00     |
| Spiked Amount                | 50.000 |      | Recovery | =      | 100.64% |          |
| Target Compounds             |        |      |          |        |         |          |
|                              |        |      |          |        |         | Qvalue   |
| 4) Vinyl Chloride            | 2.36   | 62   | 4211     | 2.29   | ug/l    | 98       |
| 16) Acetone                  | 4.16   | 43   | 10132    | 26.98  | ug/l    | 95       |
| 20) Methylene Chloride       | 4.91   | 84   | 14866    | 6.10   | ug/l    | 97       |
| 21) trans-1,2-Dichloroethene | 5.42   | 96   | 4927     | 3.03   | ug/l    | 96       |
| 27) cis-1,2-Dichloroethene   | 7.17   | 96   | 140535   | 78.55  | ug/l    | 92       |
| 40) Benzene                  | 8.33   | 78   | 8482     | 1.19   | ug/l    | 96       |
| 44) Trichloroethene          | 9.09   | 130  | 2147     | 1.13   | ug/l    | 94       |
| 65) Chlorobenzene            | 11.66  | 112  | 1782550  | 335.67 | ug/l    | 100      |
| 83) tert-Butylbenzene        | 13.21  | 119  | 7189     | 1.08   | ug/l    | 93       |
| 87) 1,3-Dichlorobenzene      | 13.51  | 146  | 10290m   | 2.31   | ug/l    |          |
| 88) 1,4-Dichlorobenzene      | 13.58  | 146  | 28692    | 6.49   | ug/l    | 91       |
| 91) 1,2-Dichlorobenzene      | 13.88  | 146  | 61585    | 15.81  | ug/l    | 97       |

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

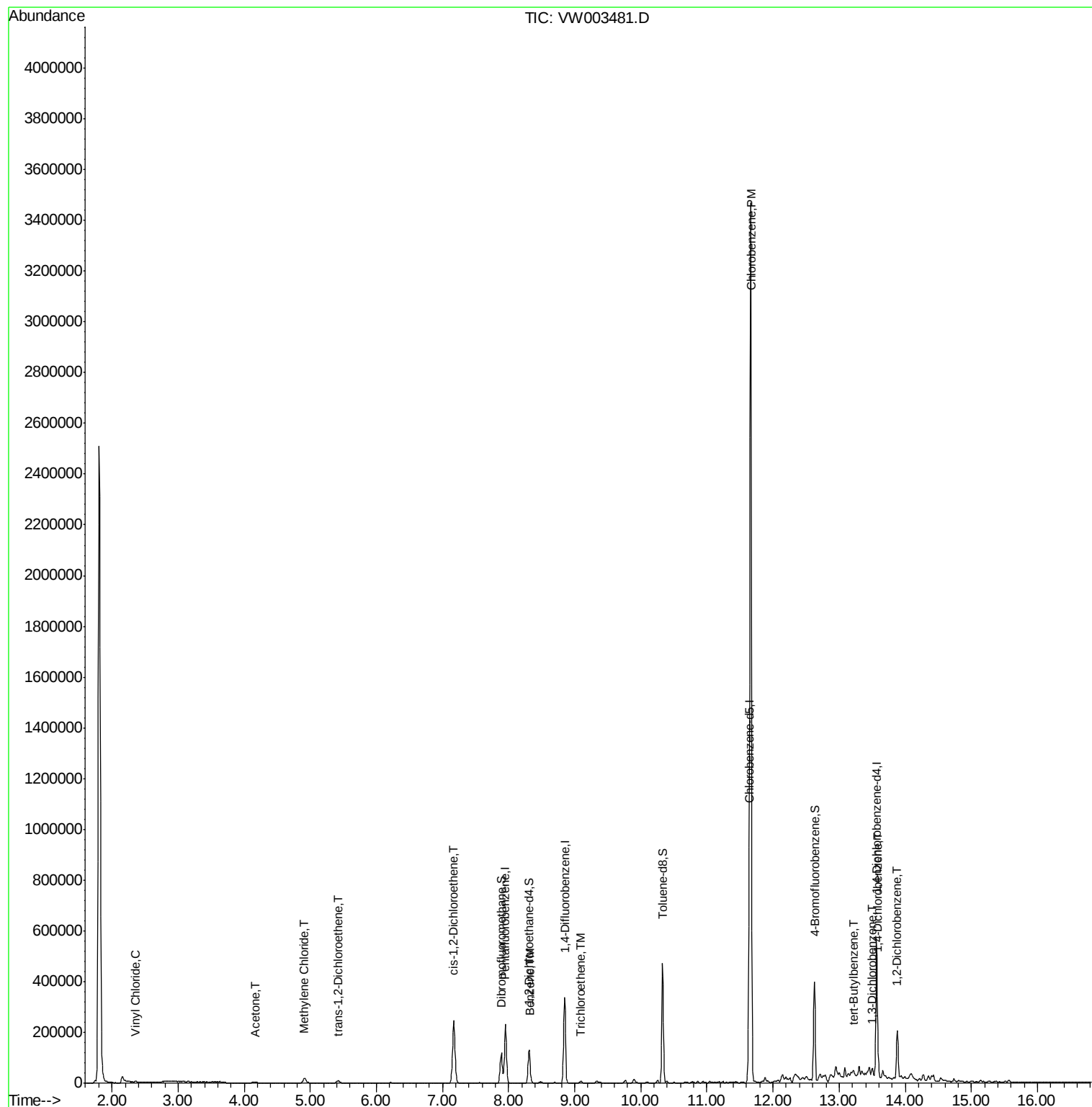
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW062318\  
Data File : VW003481.D  
Acq On : 24 Jun 2018 01:55  
Operator : SY/AP  
Sample : J3670-01  
Misc : 6.55G/5ML/MSVOA W/SOIL  
ALS Vial : 35 Sample Multiplier: 1

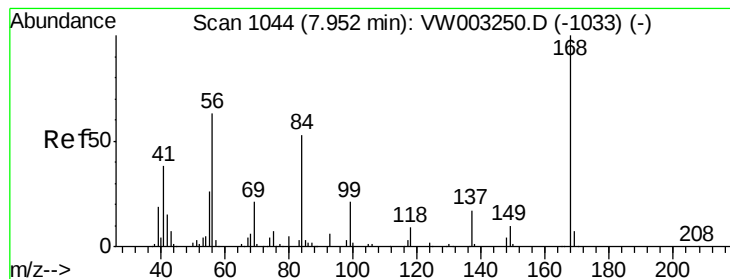
Instrument :  
MSVOA\_W  
ClientSampleId :  
WP021SB487-13-15-180621

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Quant Time: Jun 25 04:33:40 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W061318S.M  
Quant Title : SW846 8260  
QLast Update : Sat Jun 16 05:18:54 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW003481.D

Acq: 24 Jun 2018 01:55

Instrument :

MSVOA\_W

ClientSampleId :

WP021SB487-13-15-180621

Tot Ion:168 Resp: 165320

Ion Ratio Lower Upper

168 100

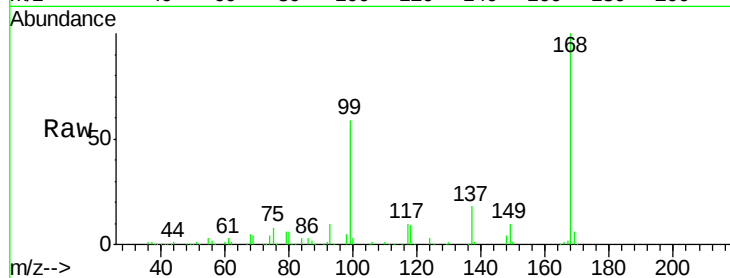
99 58.7 45.5 68.3

Manual Integrations

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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

80000

60000

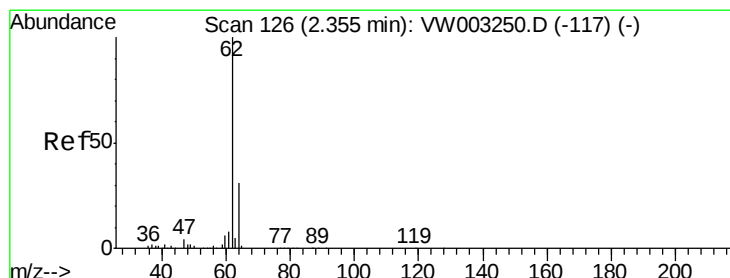
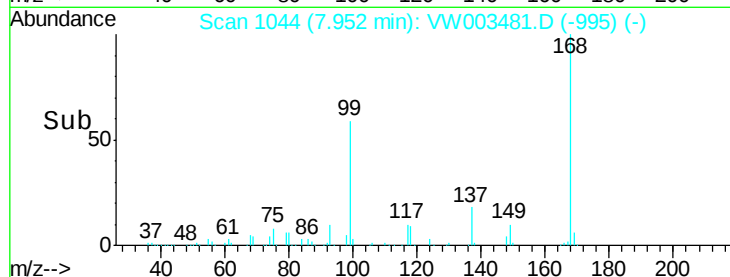
40000

20000

0

7.90 8.00 8.10

Time-->



#4

Vinyl Chloride

Concen: 2.29 ug/l

RT: 2.36 min Scan# 127

Delta R.T. 0.01 min

Lab File: VW003481.D

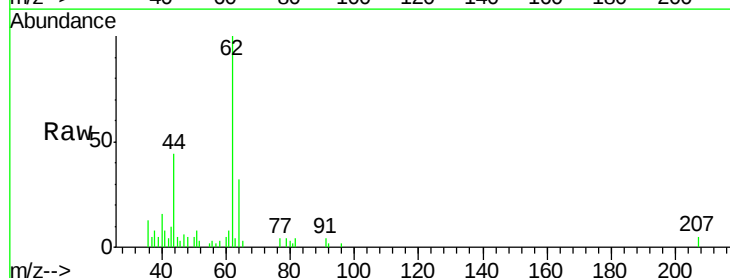
Acq: 24 Jun 2018 01:55

Tgt Ion: 62 Resp: 4211

Ion Ratio Lower Upper

62 100

64 32.0 24.9 37.3



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW

2.36

3000

2500

2000

1500

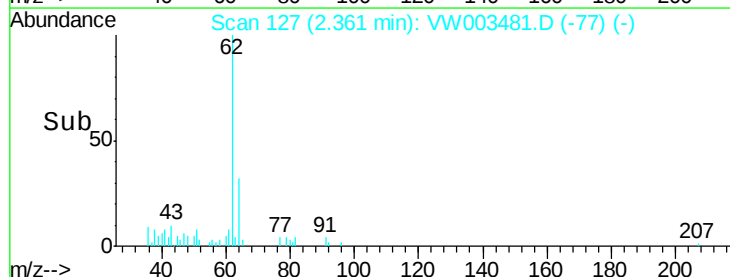
1000

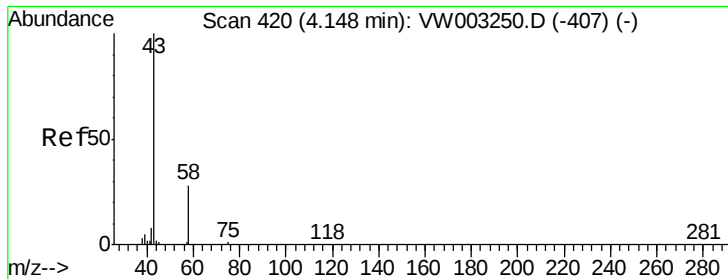
500

0

2.30 2.35 2.40 2.45

Time-->





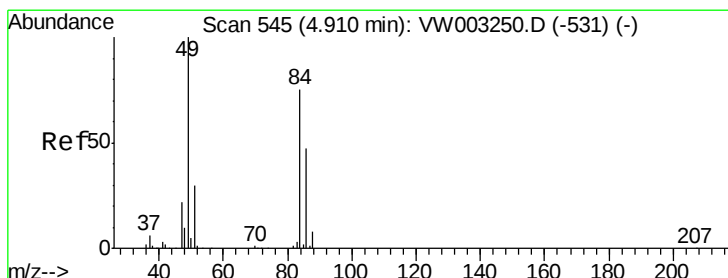
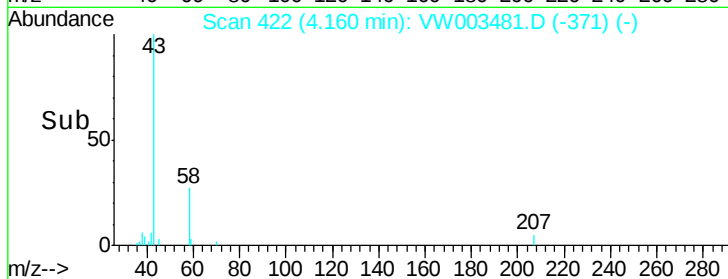
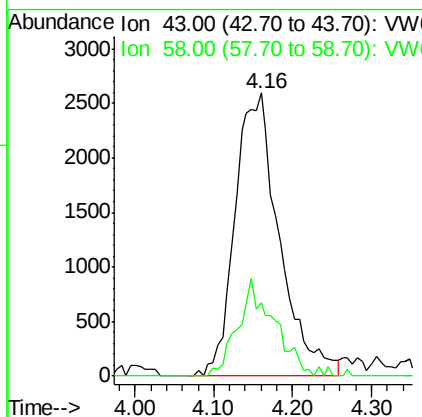
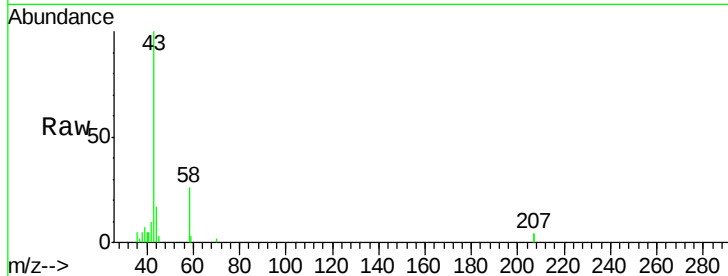
#16  
Acetone  
Concen: 26.98 ug/l  
RT: 4.16 min Scan# 422  
Delta R.T. 0.01 min  
Lab File: VW003481.D  
Acq: 24 Jun 2018 01:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
WP021SB487-13-15-180621

Tot Ion: 43 Resp: 10132  
Ion Ratio Lower Upper  
43 100  
58 25.8 22.6 34.0

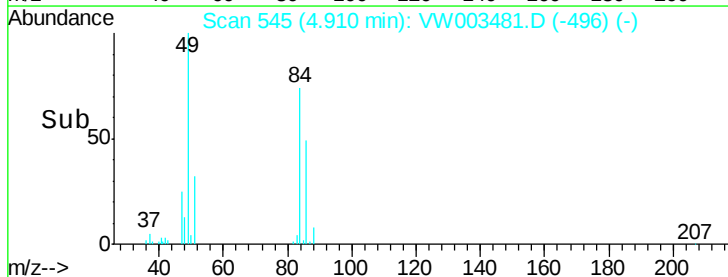
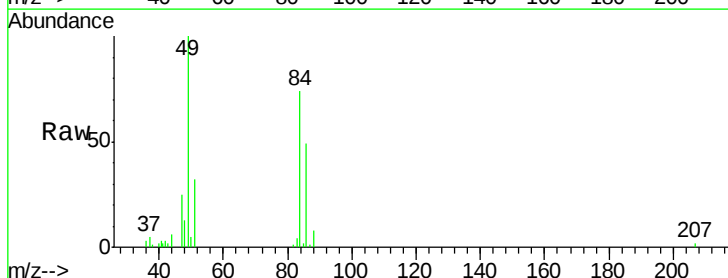
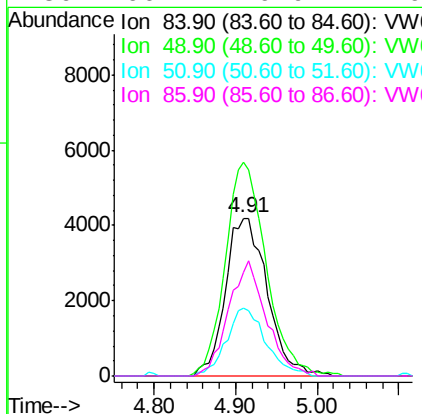
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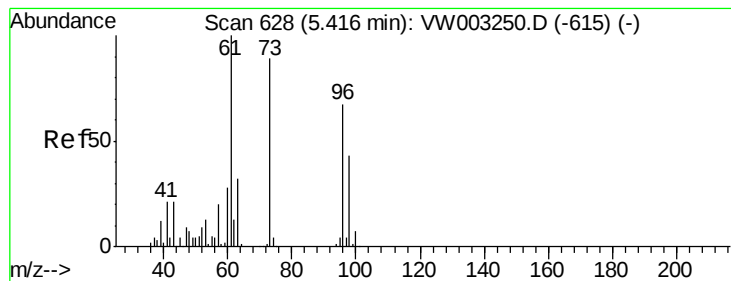
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#20  
Methylene Chloride  
Concen: 6.10 ug/l  
RT: 4.91 min Scan# 545  
Delta R.T. 0.00 min  
Lab File: VW003481.D  
Acq: 24 Jun 2018 01:55

Tgt Ion: 84 Resp: 14866  
Ion Ratio Lower Upper  
84 100  
49 135.6 106.3 159.5  
51 43.0 32.0 48.0  
86 66.2 49.9 74.9





#21

trans-1,2-Dichloroethene

Concen: 3.03 ug/l

RT: 5.42 min Scan# 629

Delta R.T. 0.01 min

Lab File: VW003481.D

Acq: 24 Jun 2018 01:55

Instrument :

MSVOA\_W

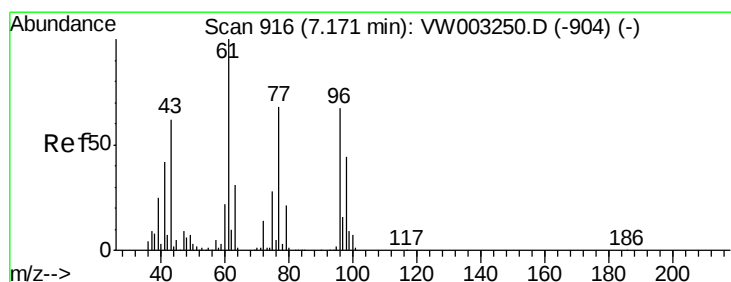
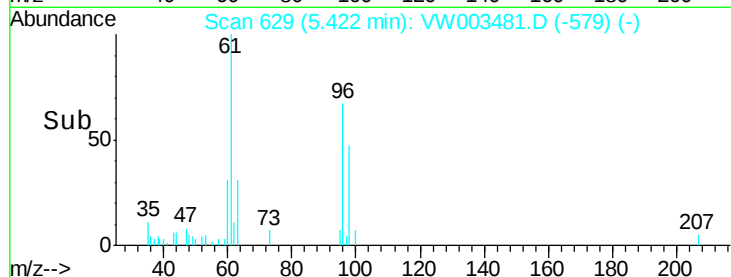
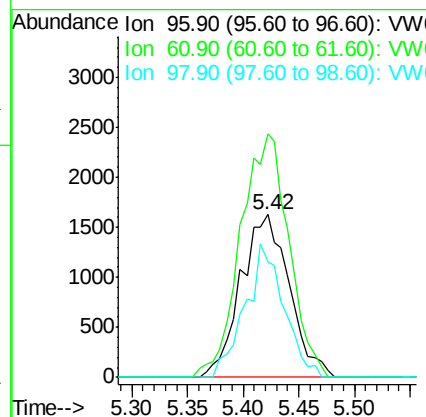
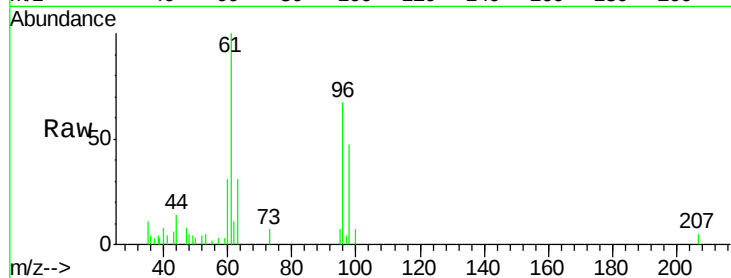
ClientSampleId :

WP021SB487-13-15-180621

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 4927  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 149.9 | 118.7 | 178.1 |
| 98       | 71.2  | 51.0  | 76.6  |

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#27

cis-1,2-Dichloroethene

Concen: 78.55 ug/l

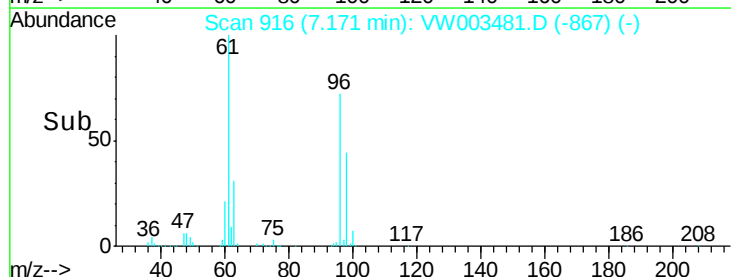
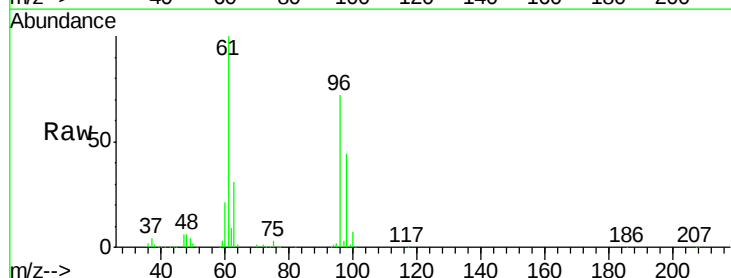
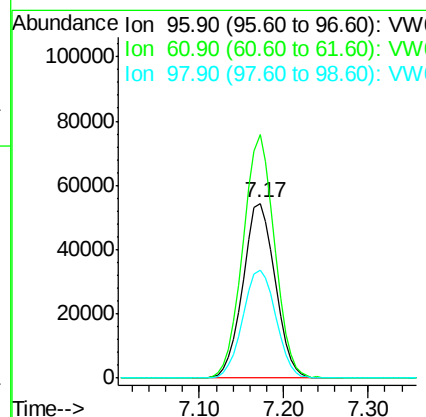
RT: 7.17 min Scan# 916

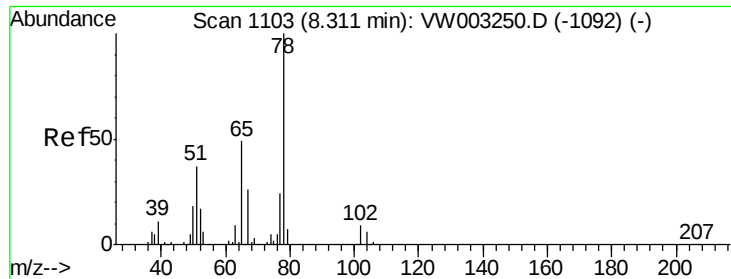
Delta R.T. 0.00 min

Lab File: VW003481.D

Acq: 24 Jun 2018 01:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 96    | Resp: | 140535 |
| Ion      | Ratio | Lower | Upper  |
| 96       | 100   |       |        |
| 61       | 136.7 | 0.0   | 298.8  |
| 98       | 63.7  | 0.0   | 130.4  |





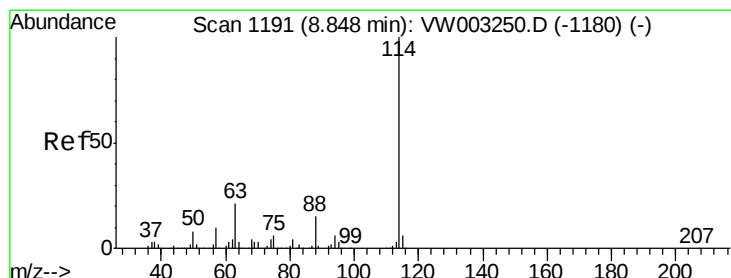
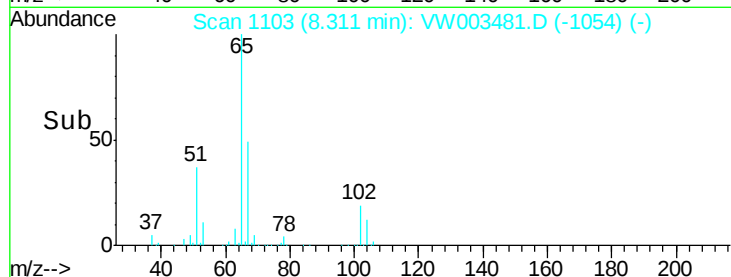
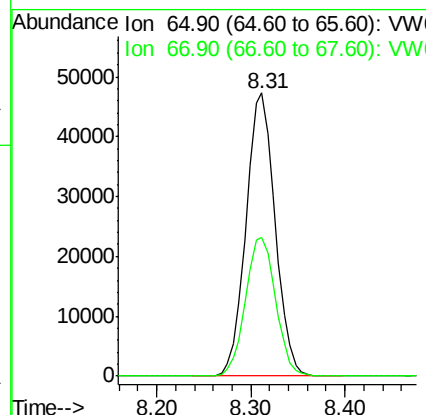
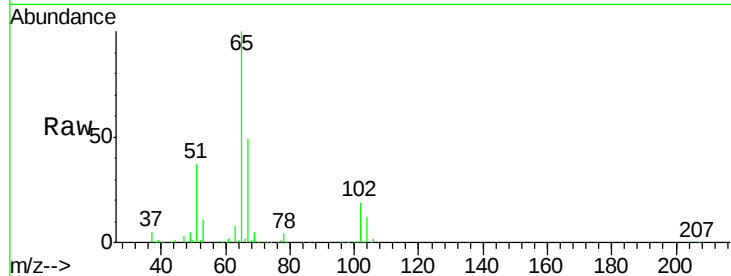
#33  
 1,2-Dichloroethane-d4  
 Concen: 57.13 ug/l  
 RT: 8.31 min Scan# 1103  
 Delta R.T. 0.00 min  
 Lab File: VW003481.D  
 Acq: 24 Jun 2018 01:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WP021SB487-13-15-180621

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 102299 |       |       |
| 67      | 50.6  | 0.0    | 104.2 |       |

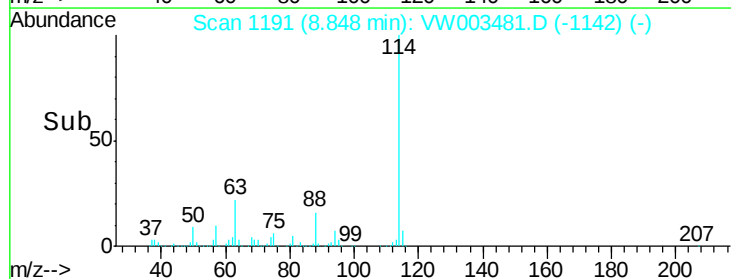
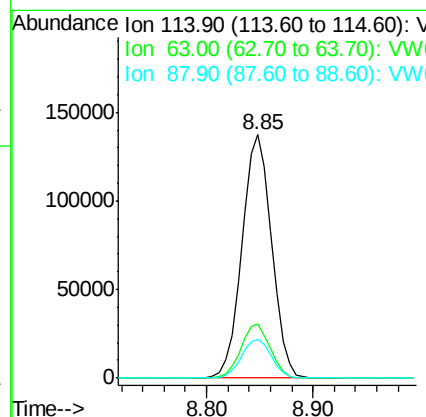
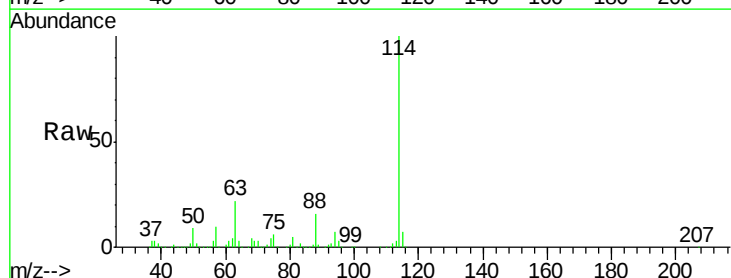
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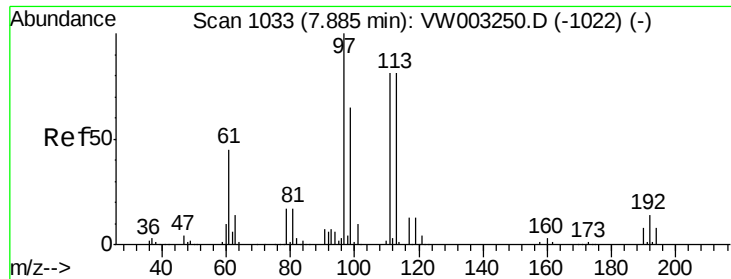
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#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. 0.00 min  
 Lab File: VW003481.D  
 Acq: 24 Jun 2018 01:55

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 268590 |       |       |
| 63      | 22.2  | 0.0    | 43.0  |       |
| 88      | 15.8  | 0.0    | 29.6  |       |





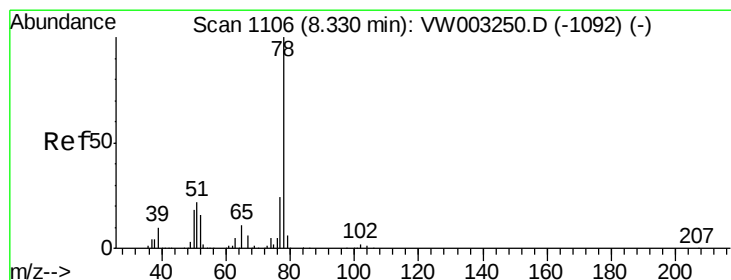
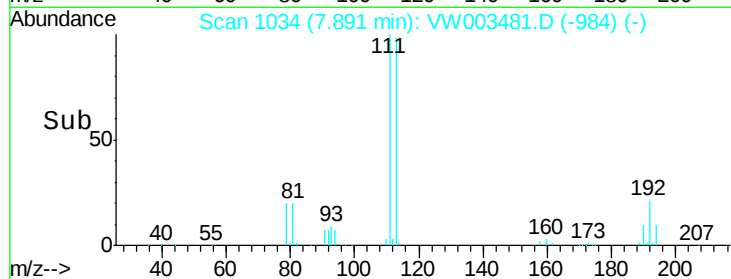
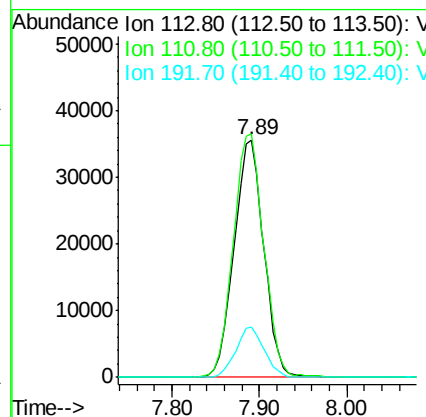
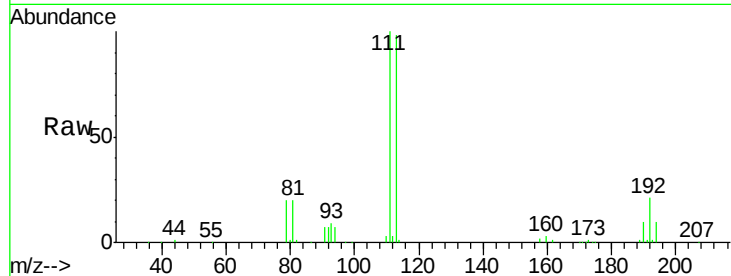
#35  
 Dibromofluoromethane  
 Concen: 50.35 ug/l  
 RT: 7.89 min Scan# 1034  
 Delta R.T. 0.01 min  
 Lab File: VW003481.D  
 Acq: 24 Jun 2018 01:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WP021SB487-13-15-180621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.9 | 82.2  | 123.2 |
| 192     | 20.4  | 16.2  | 24.2  |

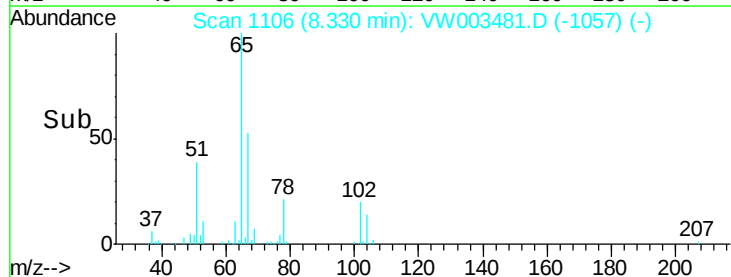
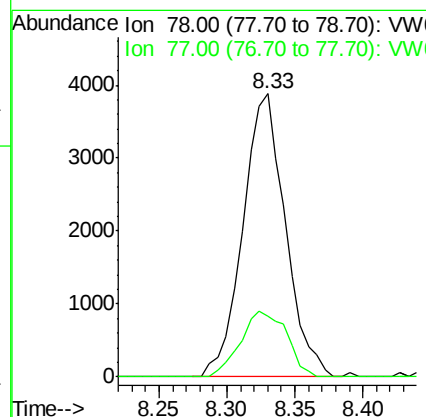
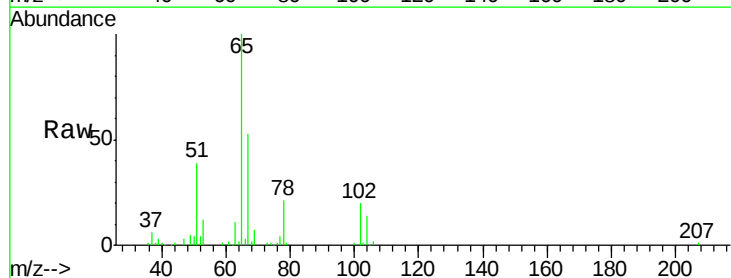
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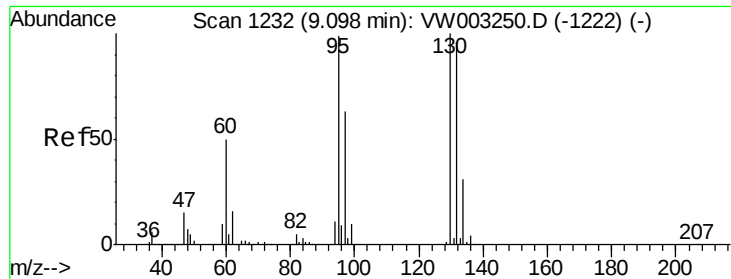
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#40  
 Benzene  
 Concen: 1.19 ug/l  
 RT: 8.33 min Scan# 1106  
 Delta R.T. 0.00 min  
 Lab File: VW003481.D  
 Acq: 24 Jun 2018 01:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 21.6  | 19.0  | 28.6  |





#44

Trichloroethene

Concen: 1.13 ug/l

RT: 9.09 min Scan# 1231

Delta R.T. -0.01 min

Lab File: VW003481.D

Acq: 24 Jun 2018 01:55

Instrument :

MSVOA\_W

ClientSampleId :

WP021SB487-13-15-180621

Tot Ion:130 Resp: 2147

Ion Ratio Lower Upper

130 100

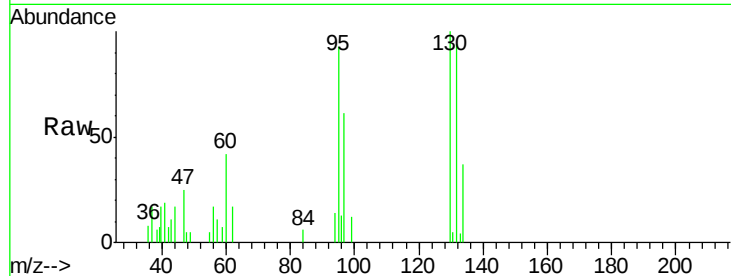
95 93.1 0.0 198.0

Manual Integrations

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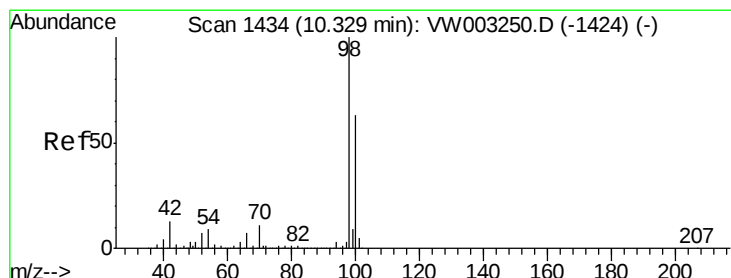
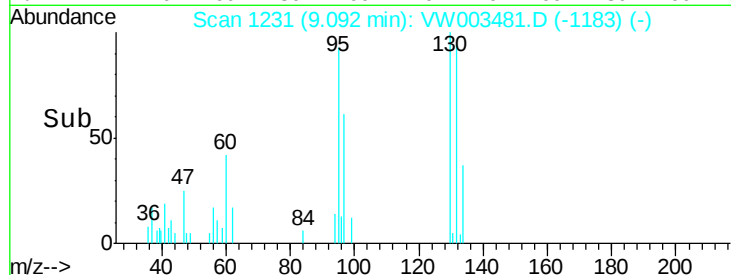
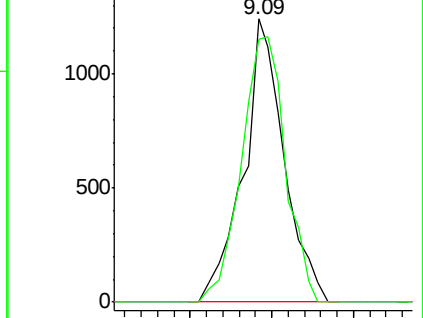
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Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW



#50

Toluene-d8

Concen: 44.98 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW003481.D

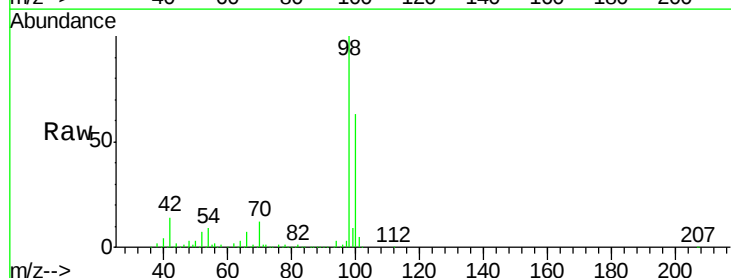
Acq: 24 Jun 2018 01:55

Tgt Ion: 98 Resp: 297662

Ion Ratio Lower Upper

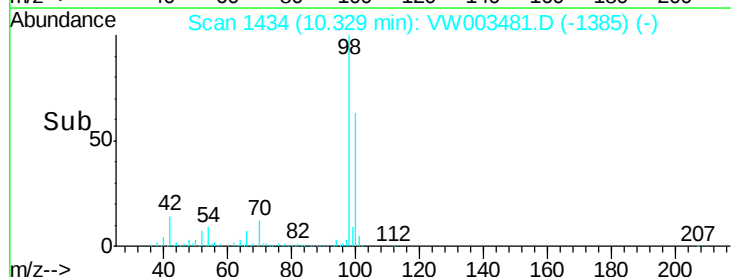
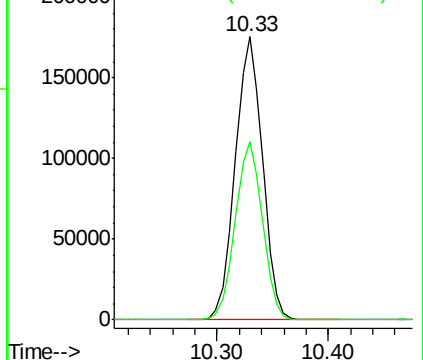
98 100

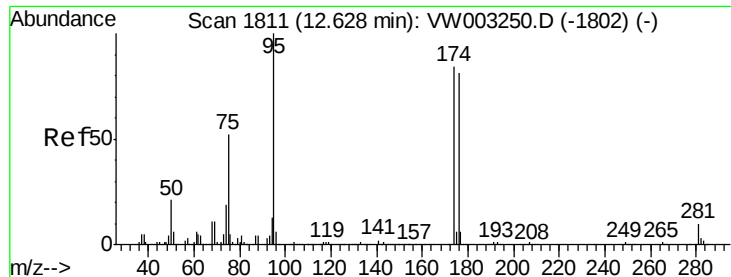
100 62.8 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





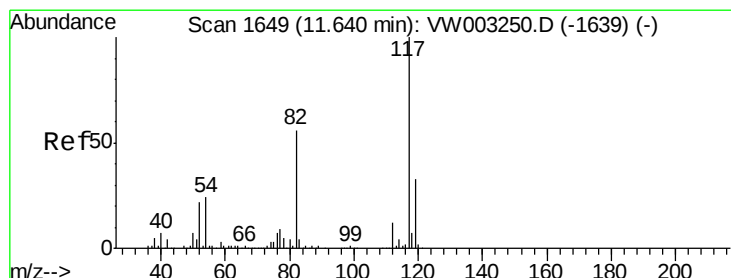
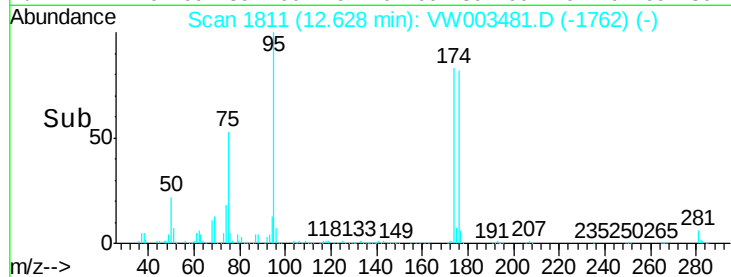
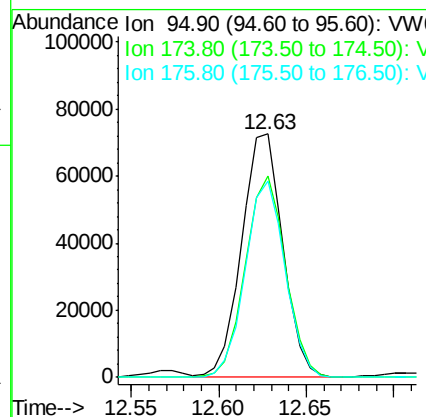
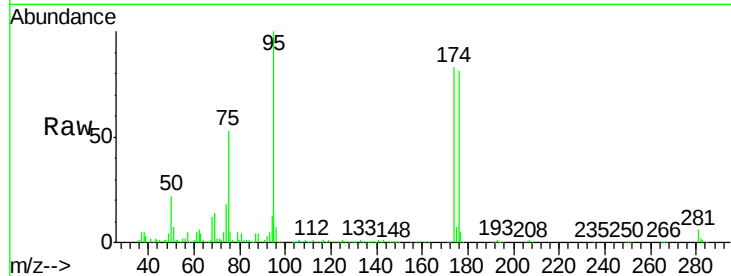
#62  
4-Bromofluorobenzene  
Concen: 50.32 ug/l  
RT: 12.63 min Scan# 1811  
Delta R.T. 0.00 min  
Lab File: VW003481.D  
Acq: 24 Jun 2018 01:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
WP021SB487-13-15-180621

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 117838 |       |       |
| 174     | 81.4  | 0.0    | 166.4 |       |
| 176     | 78.7  | 0.0    | 162.0 |       |

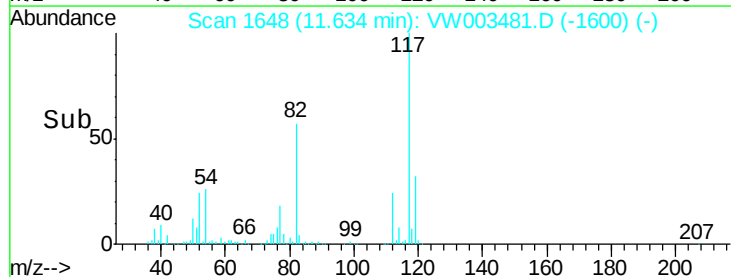
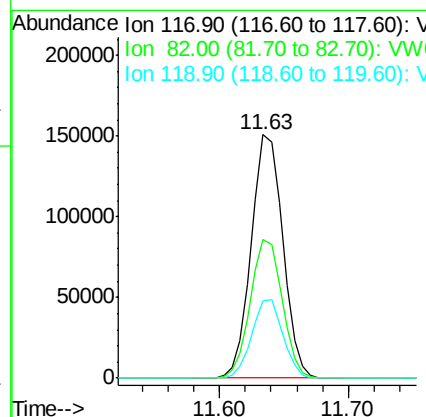
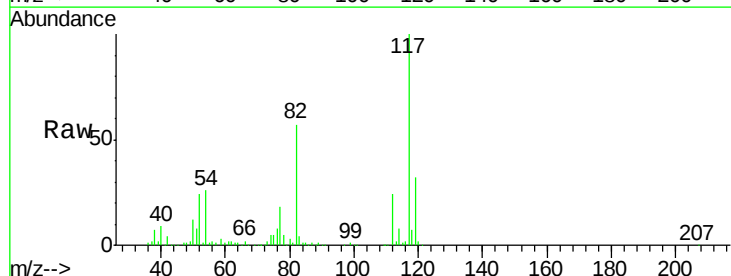
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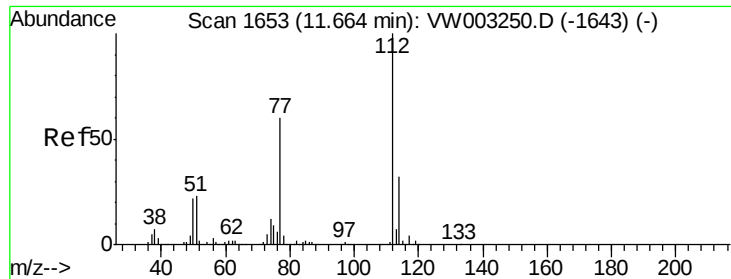
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#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.01 min  
Lab File: VW003481.D  
Acq: 24 Jun 2018 01:55

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 255016 |       |       |
| 82      | 56.8  | 44.6   | 67.0  |       |
| 119     | 31.6  | 26.7   | 40.1  |       |





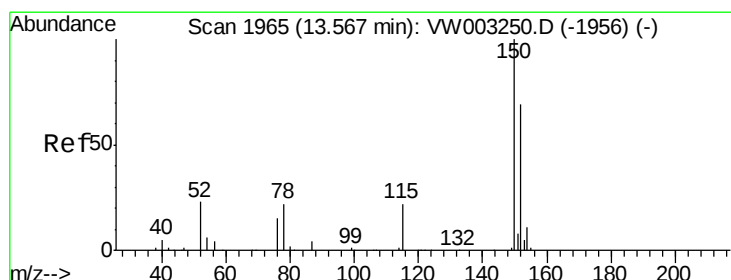
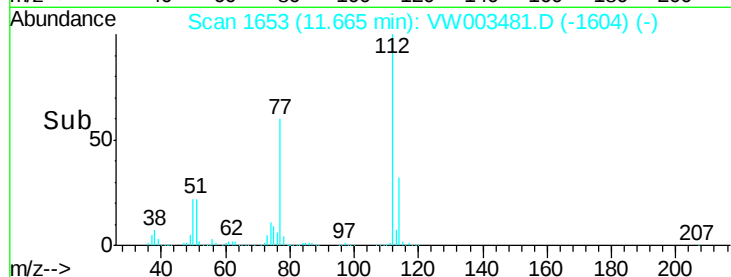
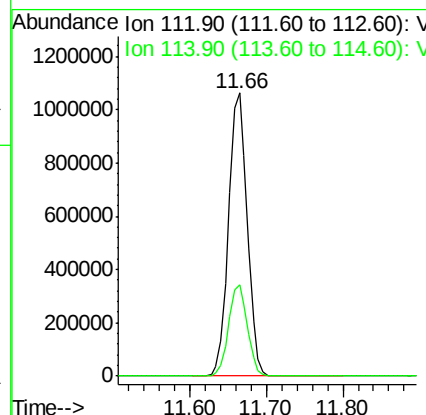
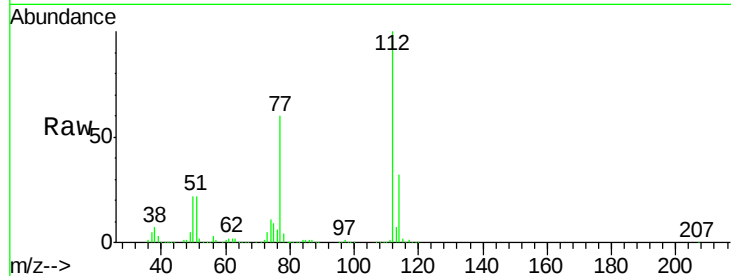
#65  
Chlorobenzene  
Concen: 335.67 ug/l  
RT: 11.66 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VW003481.D  
Acq: 24 Jun 2018 01:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
WP021SB487-13-15-180621

Tot Ion:112 Resp: 1782550  
Ion Ratio Lower Upper  
112 100  
114 32.4 25.9 38.9

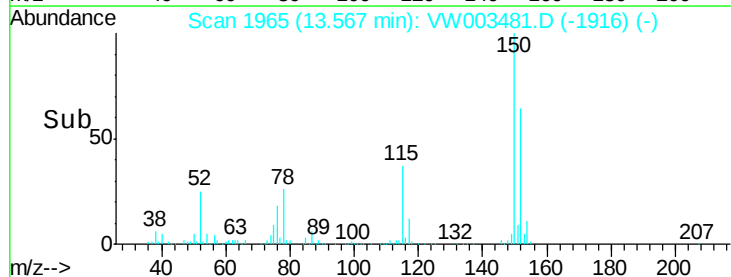
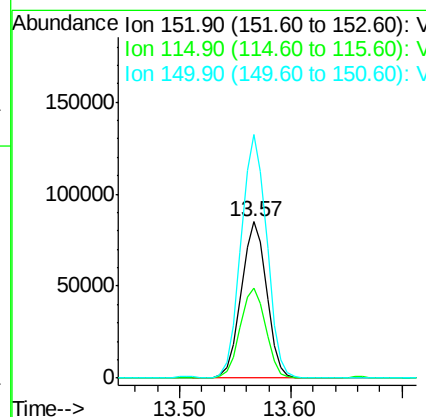
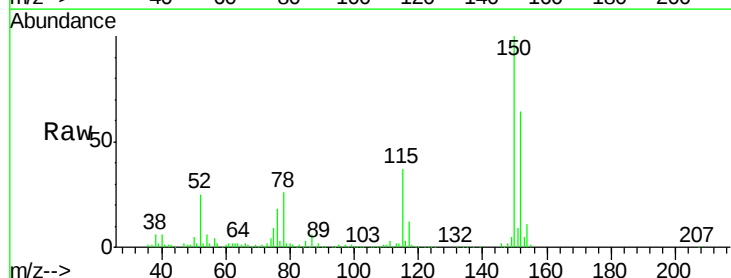
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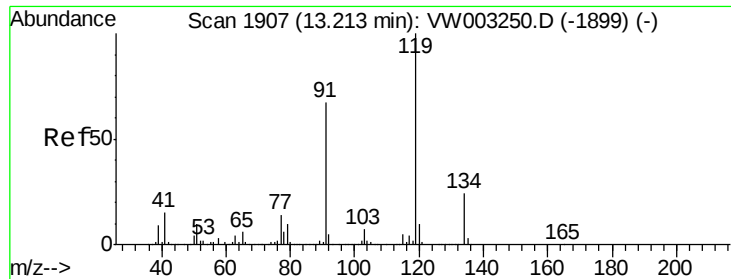
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#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. 0.00 min  
Lab File: VW003481.D  
Acq: 24 Jun 2018 01:55

Tgt Ion:152 Resp: 133669  
Ion Ratio Lower Upper  
152 100  
115 58.1 29.3 88.0  
150 158.6 0.0 349.6





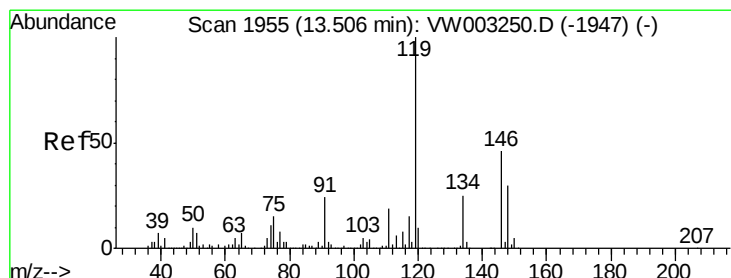
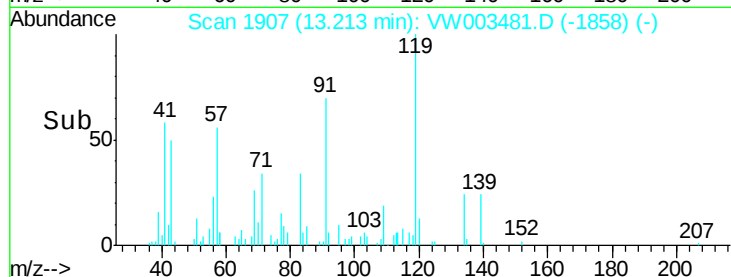
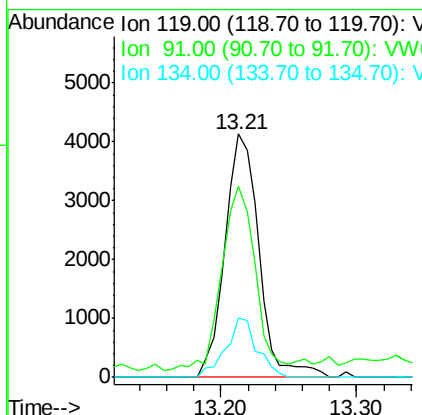
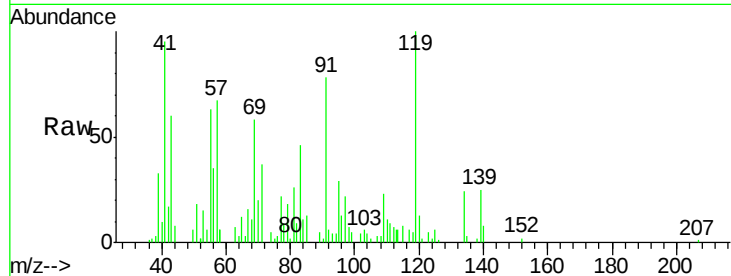
#83  
tert-Butylbenzene  
Concen: 1.08 ug/l  
RT: 13.21 min Scan# 1907  
Delta R.T. 0.00 min  
Lab File: VW003481.D  
Acq: 24 Jun 2018 01:55

Instrument :  
MSVOA\_W  
ClientSampleId :  
WP021SB487-13-15-180621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 73.4  | 33.9  | 101.7 |
| 134     | 22.4  | 13.4  | 40.1  |

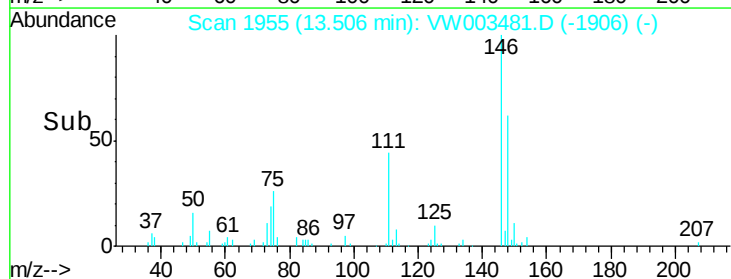
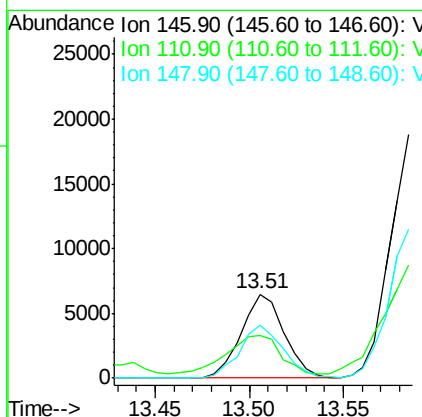
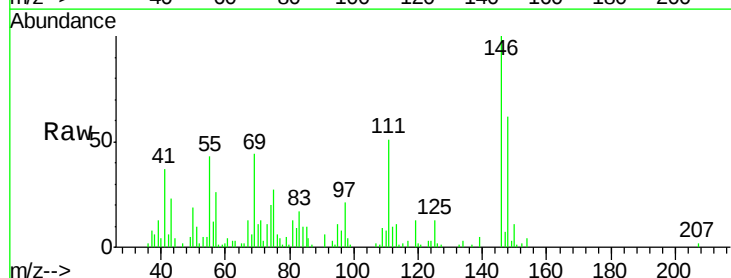
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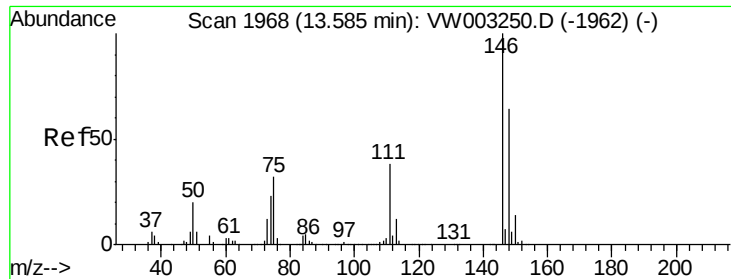
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#87  
1,3-Dichlorobenzene  
Concen: 2.31 ug/l m  
RT: 13.51 min Scan# 1955  
Delta R.T. 0.00 min  
Lab File: VW003481.D  
Acq: 24 Jun 2018 01:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 143.1 | 19.8  | 59.4# |
| 148     | 178.8 | 32.1  | 96.5# |





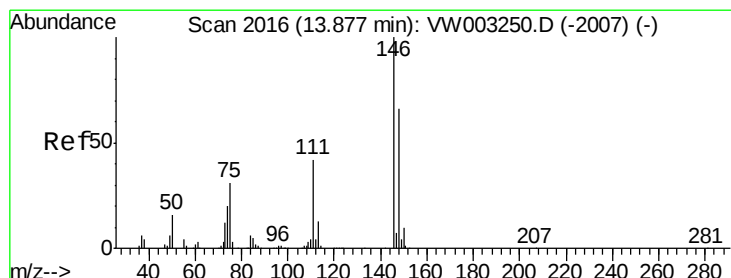
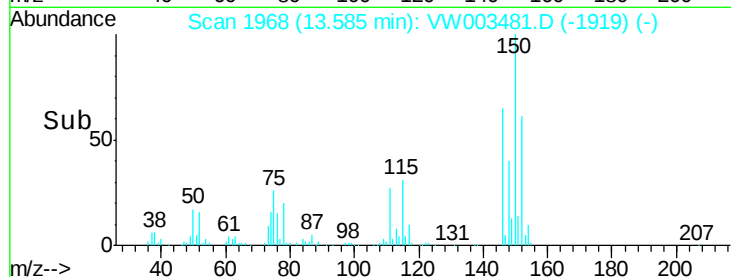
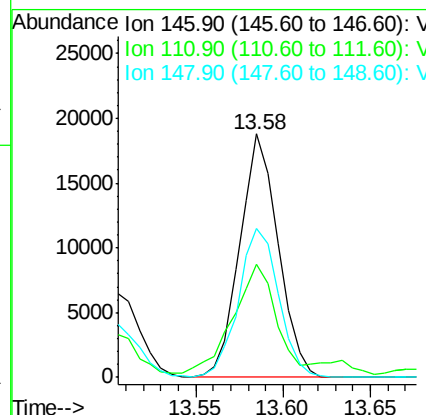
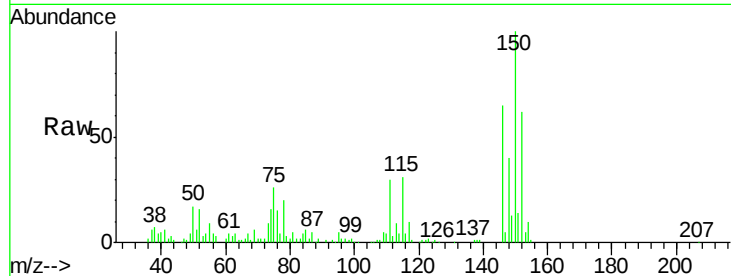
#88  
 1,4-Dichlorobenzene  
 Concen: 6.49 ug/l  
 RT: 13.58 min Scan# 1968  
 Delta R.T. 0.00 min  
 Lab File: VW003481.D  
 Acq: 24 Jun 2018 01:55

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 WP021SB487-13-15-180621

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 51.6  | 19.2  | 57.6  |
| 148     | 64.1  | 31.8  | 95.4  |

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#91  
 1,2-Dichlorobenzene  
 Concen: 15.81 ug/l  
 RT: 13.88 min Scan# 2016  
 Delta R.T. 0.00 min  
 Lab File: VW003481.D  
 Acq: 24 Jun 2018 01:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.5  | 20.3  | 61.0  |
| 148     | 63.2  | 32.3  | 96.9  |

