

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW111318\  
 Data File : VW006862.D  
 Acq On : 13 Nov 2018 18:35  
 Operator : SY/AP  
 Sample : J5895-03  
 Misc : 10.65G/5ML/MSVOA W/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-2

Manual Integrations  
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 11/14/2018 4:37:18 PM

Quant Time: Nov 14 06:38:50 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W111218S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Nov 12 14:58:58 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) Pentafluorobenzene       | 7.95  | 168  | 349700   | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.85  | 114  | 458883   | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.63 | 117  | 445053   | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.56 | 152  | 253535   | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 91534    | 35.81  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 71.62% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 96081    | 35.16  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 70.32% |          |
| 50) Toluene-d8              | 10.33 | 98   | 401624   | 35.46  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 70.92% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 157326   | 37.71  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 75.42% |          |
| Target Compounds            |       |      |          |        |        |          |
|                             |       |      |          |        | Qvalue |          |
| 16) Acetone                 | 4.15  | 43   | 2688     | 7.322  | ug/l # | 82       |
| 20) Methylene Chloride      | 4.93  | 84   | 22236    | 1.623  | ug/l   | 95       |
| 39) Methylcyclohexane       | 9.34  | 83   | 27263    | 4.893  | ug/l   | 92       |
| 67) Ethyl Benzene           | 11.74 | 91   | 39595    | 2.352  | ug/l   | 98       |
| 68) m/p-Xylenes             | 11.85 | 106  | 13889    | 2.017  | ug/l   | 99       |
| 73) Isopropylbenzene        | 12.47 | 105  | 22345    | 1.270  | ug/l   | 98       |
| 78) n-propylbenzene         | 12.81 | 91   | 99613    | 4.796  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.95 | 105  | 51447    | 3.401  | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene  | 13.26 | 105  | 184044   | 11.954 | ug/l   | 100      |
| 89) n-Butylbenzene          | 13.83 | 91   | 32785m   | 2.081  | ug/l   |          |
| 95) Naphthalene             | 15.38 | 128  | 57239    | 6.437  | ug/l   | 99       |

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

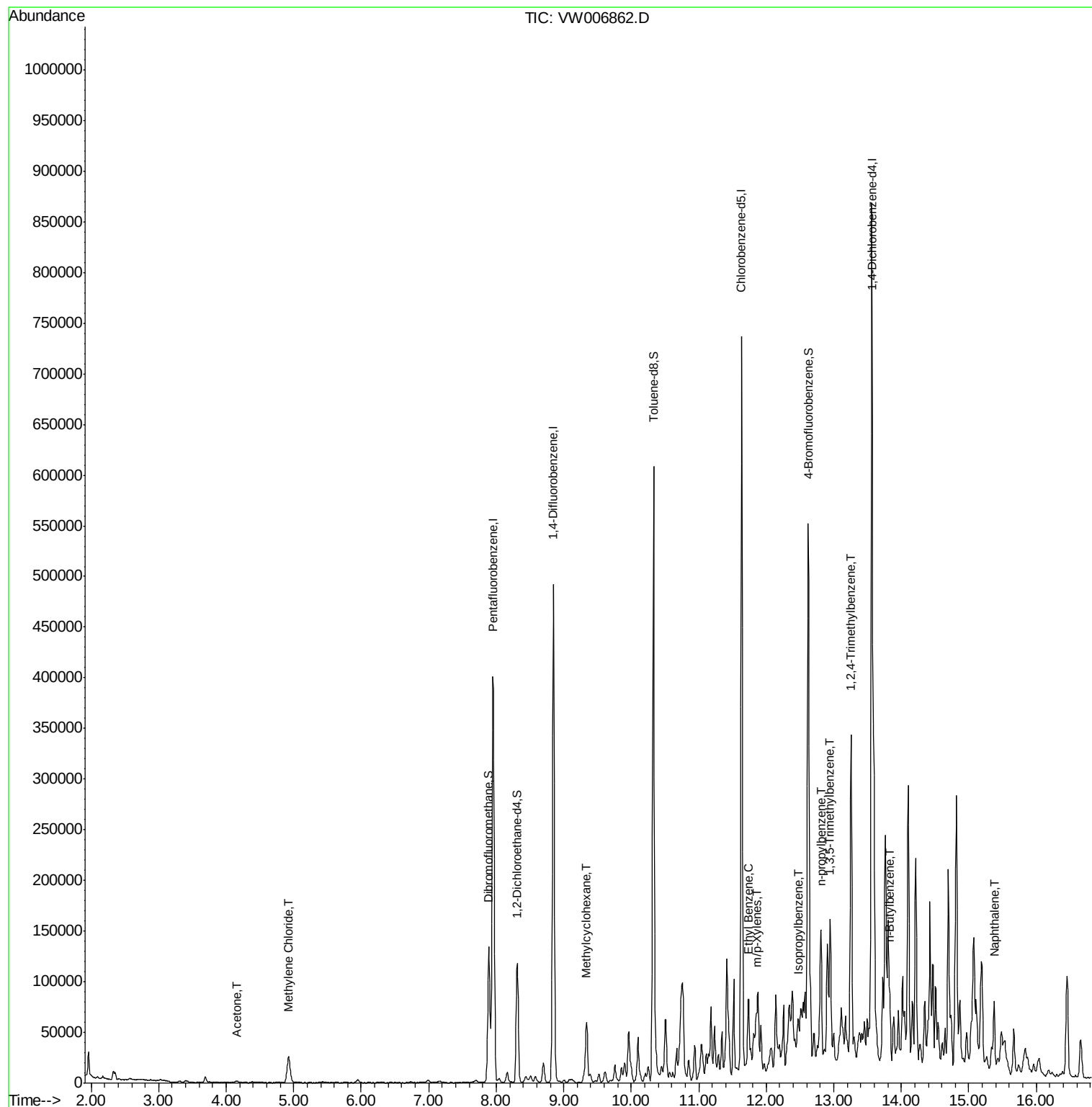
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW111318\  
Data File : VW006862.D  
Acq On : 13 Nov 2018 18:35  
Operator : SY/AP  
Sample : J5895-03  
Misc : 10.65G/5ML/MSVOA W/SOIL  
ALS Vial : 19 Sample Multiplier: 1

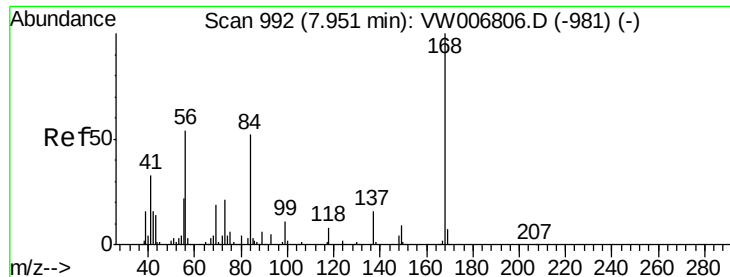
Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-2

Manual Integrations  
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Quant Time: Nov 14 06:38:50 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W111218S.M  
Quant Title : SW846 8260  
QLast Update : Mon Nov 12 14:58:58 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW006862.D

Acq: 13 Nov 2018 18:35

Instrument :

MSVOA\_W

ClientSampled :

SB-2

Tot Ion:168 Resp: 349700

Ion Ratio Lower Upper

168 100

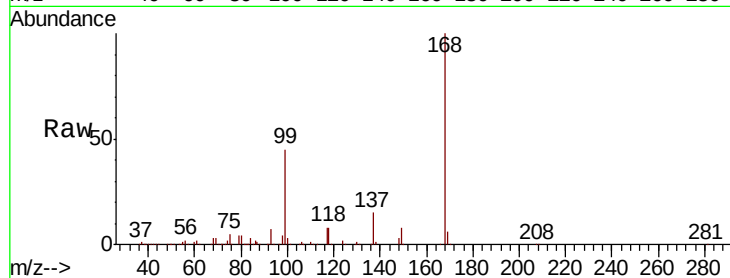
99 45.0 37.3 55.9

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

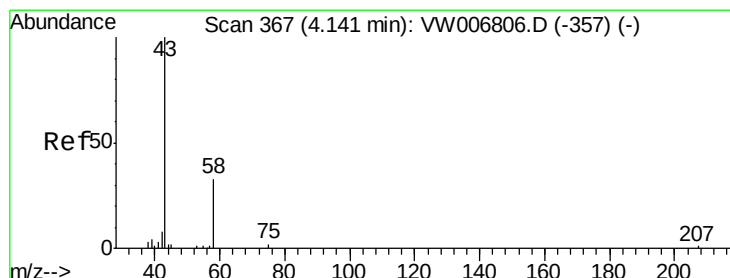
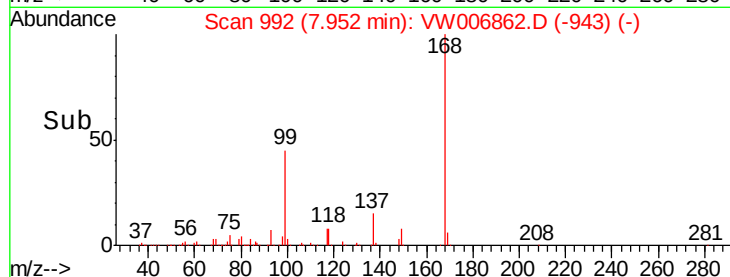
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 7.322 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.01 min

Lab File: VW006862.D

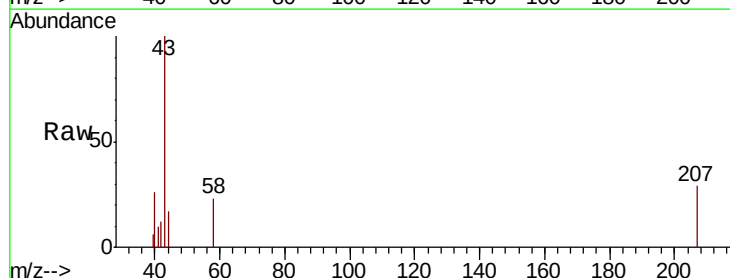
Acq: 13 Nov 2018 18:35

Tgt Ion: 43 Resp: 2688

Ion Ratio Lower Upper

43 100

58 23.0 26.5 39.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.15

1000

800

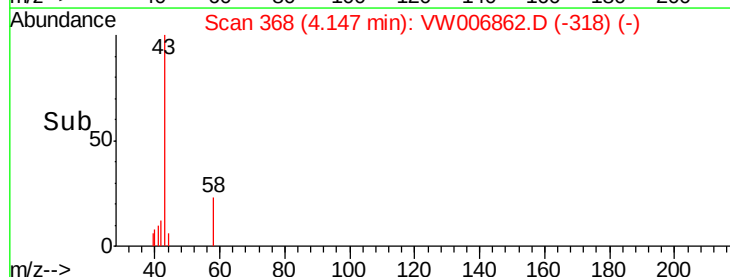
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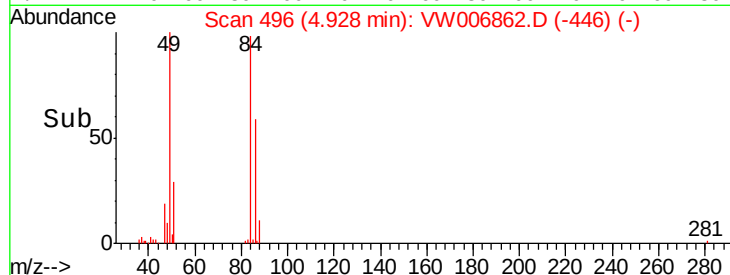
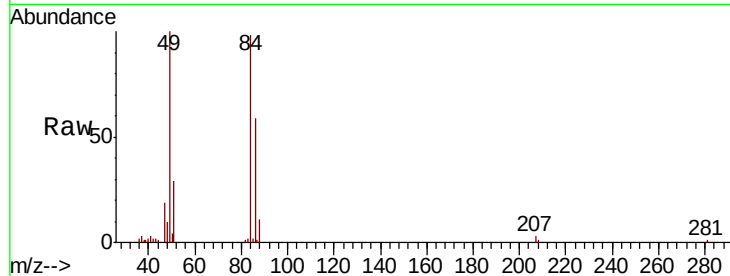
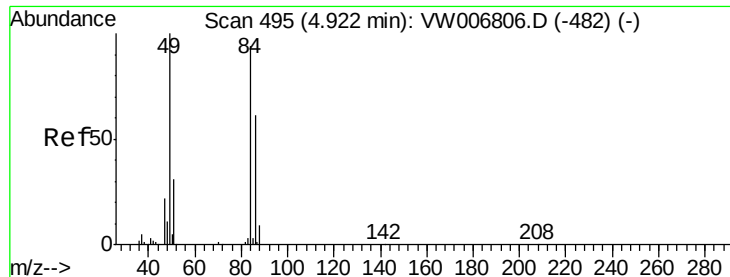
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200

0

Time-->





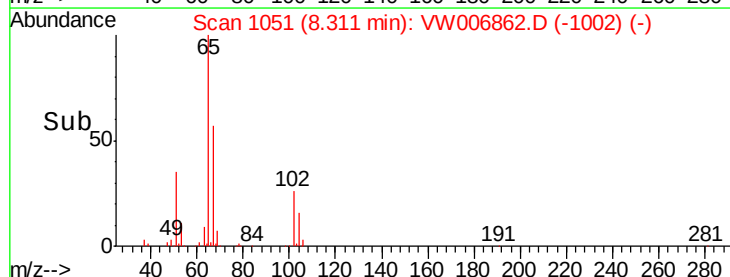
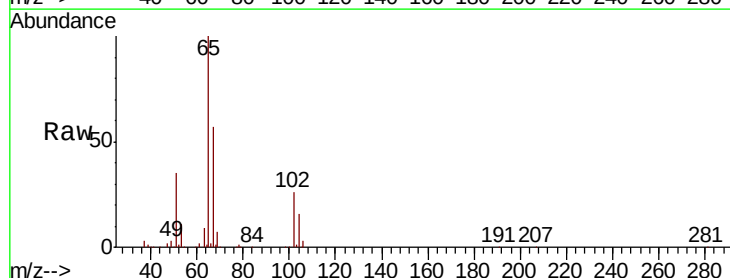
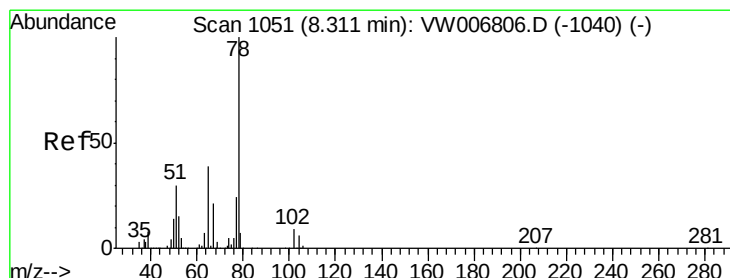
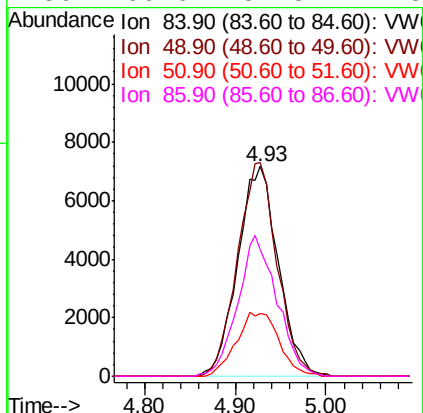
#20  
Methylene Chloride  
Concen: 1.623 ug/l  
RT: 4.93 min Scan# 496  
Delta R.T. 0.01 min  
Lab File: VW006862.D  
Acq: 13 Nov 2018 18:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 22236 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 101.9 | 84.8  | 127.2 |
| 51       | 29.7  | 26.2  | 39.4  |
| 86       | 60.6  | 51.8  | 77.8  |

Instrument :  
MSVOA\_W  
ClientSampled :  
SB-2

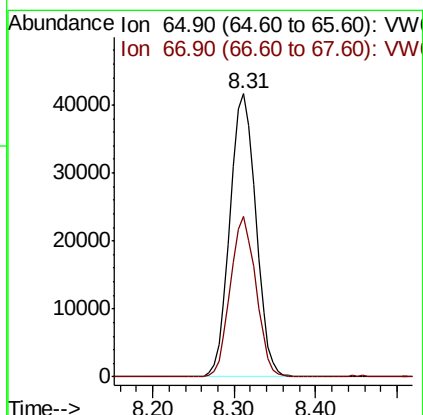
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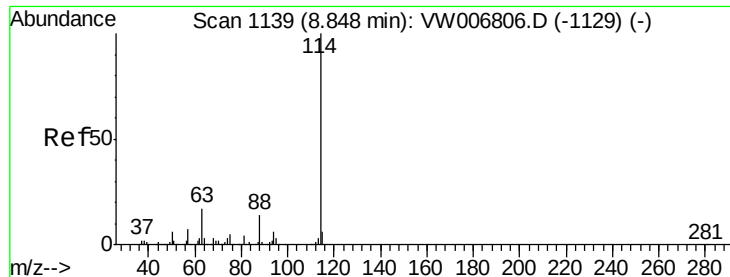
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#33  
1,2-Dichloroethane-d4  
Concen: 35.806 ug/l  
RT: 8.31 min Scan# 1051  
Delta R.T. 0.00 min  
Lab File: VW006862.D  
Acq: 13 Nov 2018 18:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 65    | Resp: | 91534 |
| Ion      | Ratio | Lower | Upper |
| 65       | 100   |       |       |
| 67       | 55.7  | 0.0   | 104.4 |





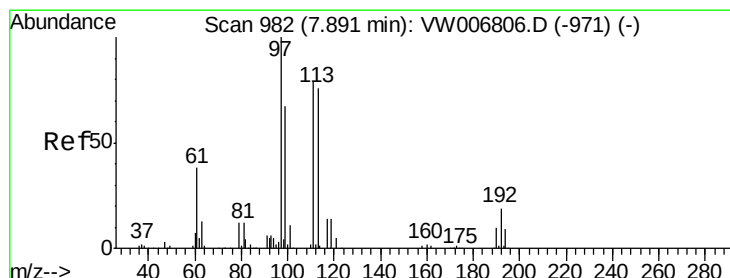
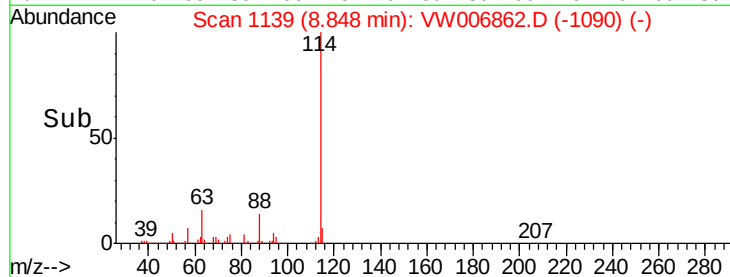
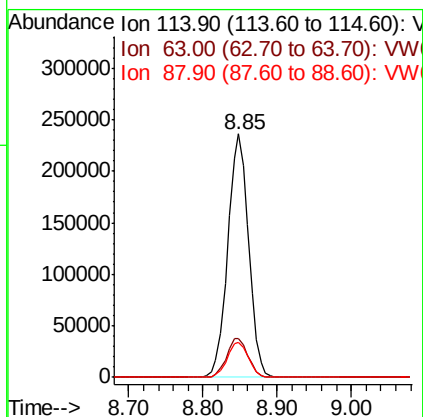
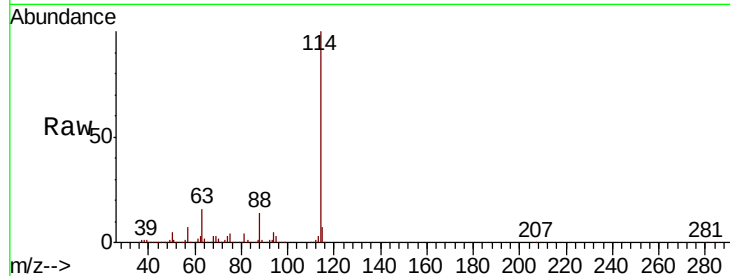
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.85 min Scan# 1139  
 Delta R.T. 0.00 min  
 Lab File: VW006862.D  
 Acq: 13 Nov 2018 18:35

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 SB-2

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 114     | 100   |            |       |
| 63      | 15.9  | 0.0        | 33.6  |
| 88      | 14.3  | 0.0        | 28.4  |

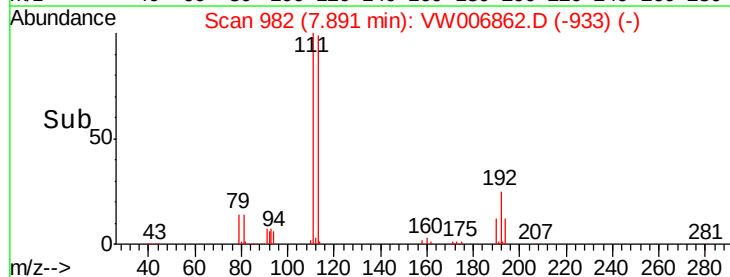
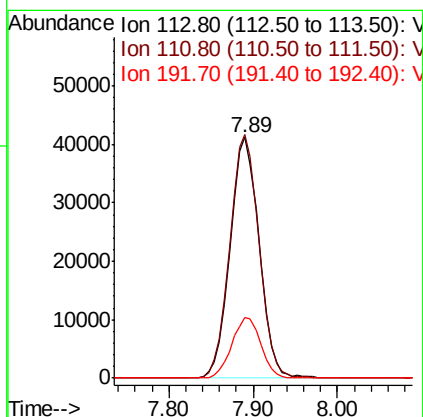
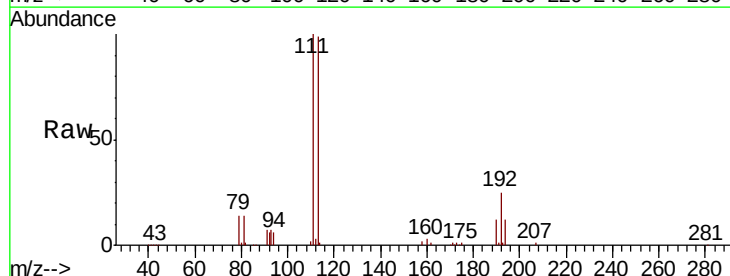
Manual Integrations  
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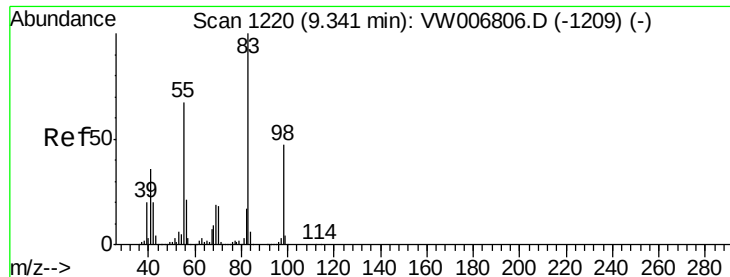
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#35  
 Dibromofluoromethane  
 Concen: 35.162 ug/l  
 RT: 7.89 min Scan# 982  
 Delta R.T. 0.00 min  
 Lab File: VW006862.D  
 Acq: 13 Nov 2018 18:35

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 113     | 100   |            |       |
| 111     | 101.1 | 81.0       | 121.6 |
| 192     | 25.0  | 19.0       | 28.6  |





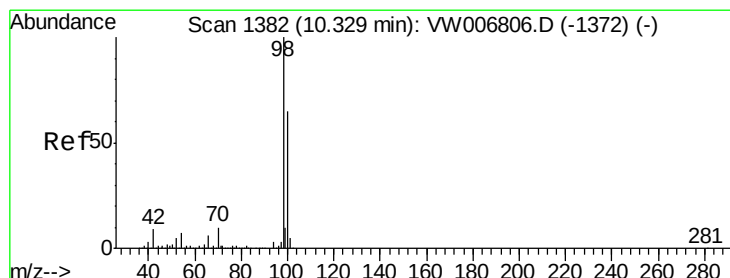
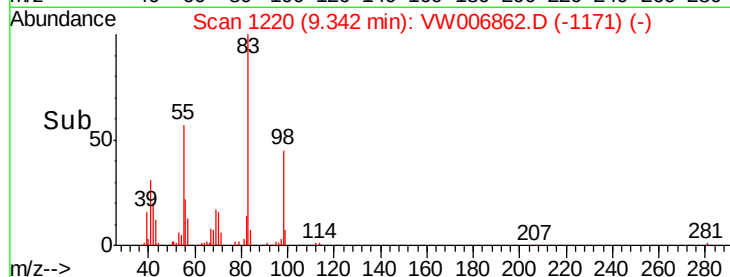
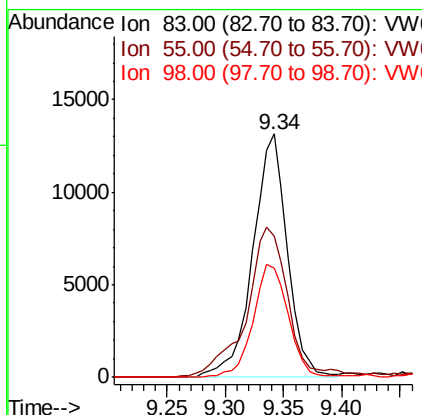
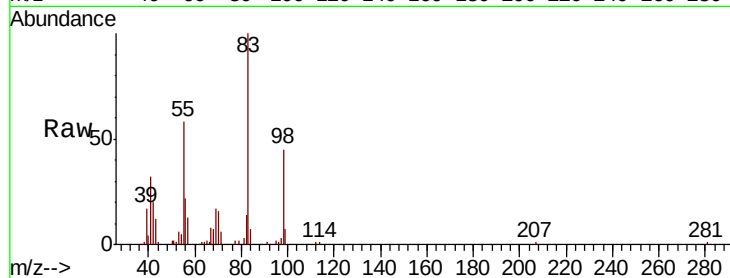
#39  
Methylcyclohexane  
Concen: 4.893 ug/l  
RT: 9.34 min Scan# 1220  
Delta R.T. 0.00 min  
Lab File: VW006862.D  
Acq: 13 Nov 2018 18:35

Instrument :  
MSVOA\_W  
ClientSampled :  
SB-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 57.6  | 53.3  | 79.9  |
| 98      | 44.9  | 37.9  | 56.9  |

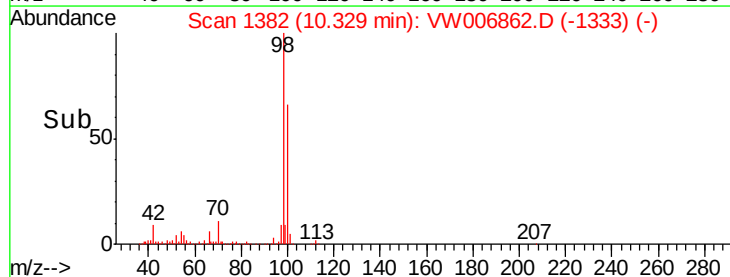
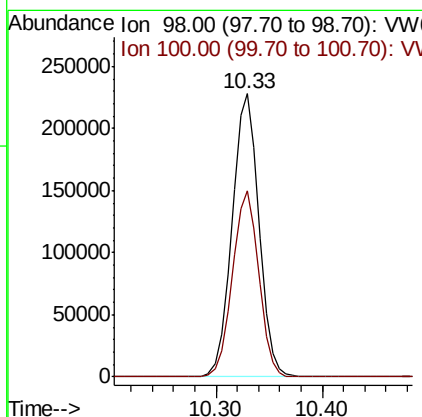
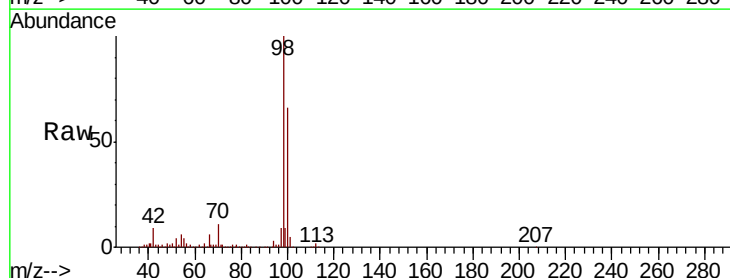
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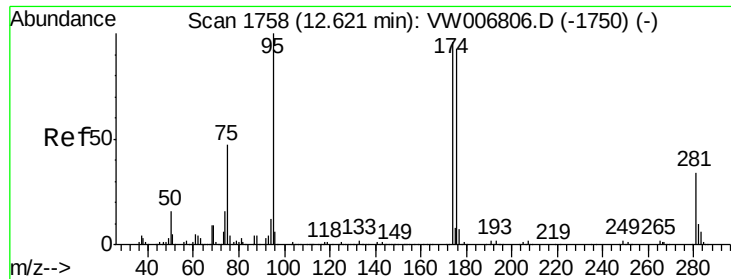
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#50  
Toluene-d8  
Concen: 35.461 ug/l  
RT: 10.33 min Scan# 1382  
Delta R.T. 0.00 min  
Lab File: VW006862.D  
Acq: 13 Nov 2018 18:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 64.8  | 51.4  | 77.2  |





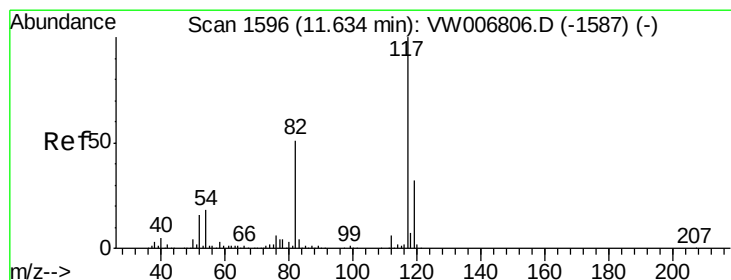
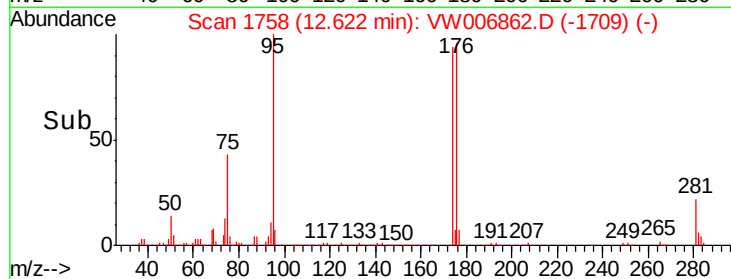
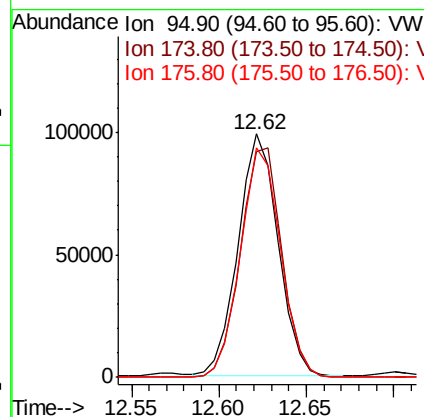
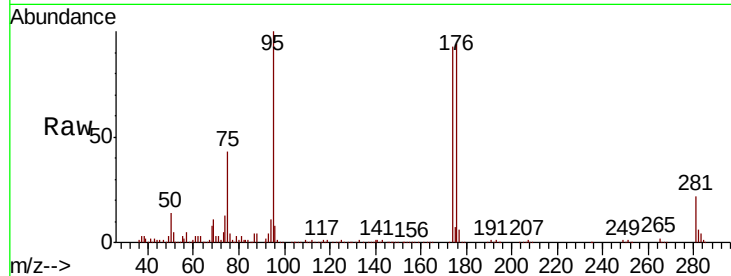
#62  
4-Bromofluorobenzene  
Concen: 37.715 ug/l  
RT: 12.62 min Scan# 1758  
Delta R.T. 0.00 min  
Lab File: VW006862.D  
Acq: 13 Nov 2018 18:35

Instrument :  
MSVOA\_W  
ClientSampled :  
SB-2

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 157326 |       |       |
| 174     | 97.9  | 0.0    | 196.6 |       |
| 176     | 95.4  | 0.0    | 191.6 |       |

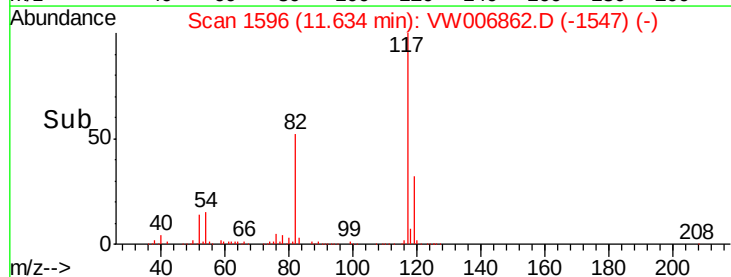
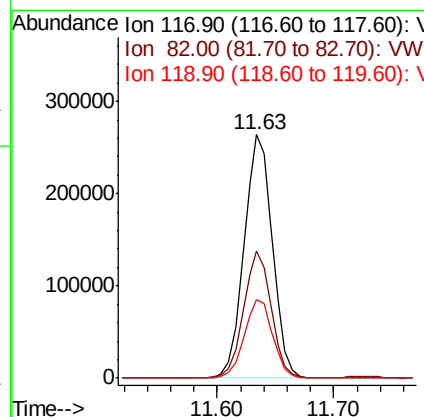
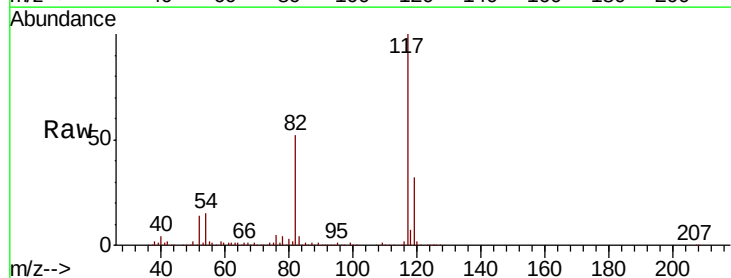
Manual Integrations  
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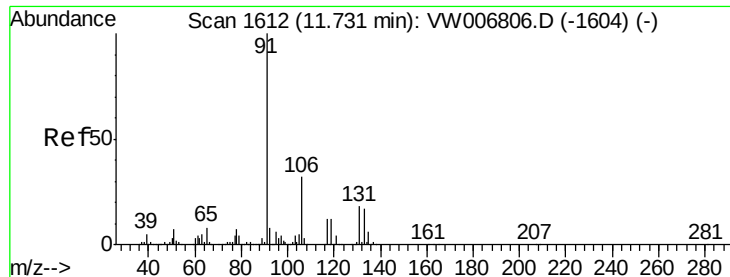
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#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.63 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VW006862.D  
Acq: 13 Nov 2018 18:35

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 445053 |       |       |
| 82      | 52.1  | 40.6   | 61.0  |       |
| 119     | 32.4  | 25.5   | 38.3  |       |





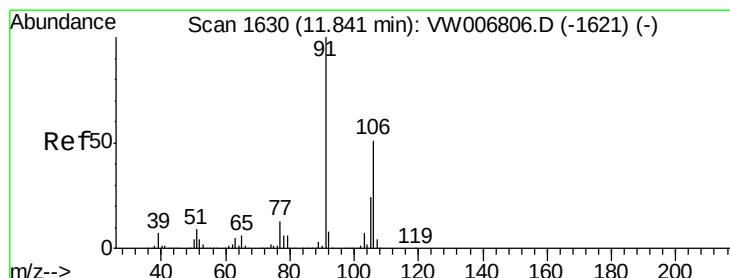
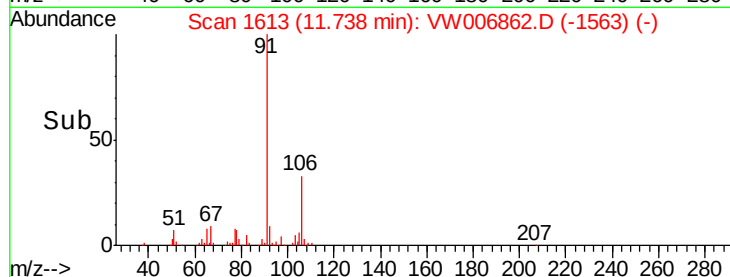
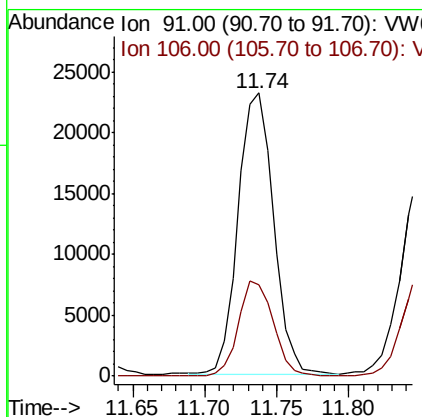
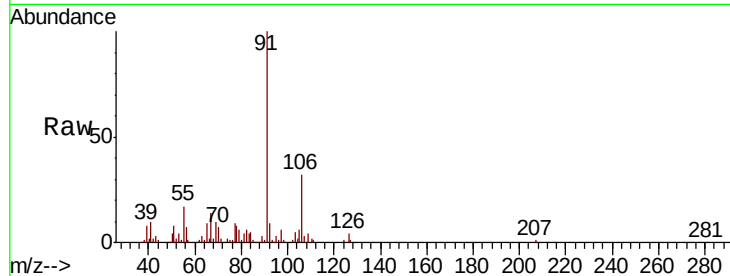
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Ethyl Benzene  
Concen: 2.352 ug/l  
RT: 11.74 min Scan# 1613  
Delta R.T. 0.01 min  
Lab File: VW006862.D  
Acq: 13 Nov 2018 18:35

Instrument :  
MSVOA\_W  
ClientSampled :  
SB-2

Tot Ion: 91 Resp: 39595  
Ion Ratio Lower Upper  
91 100  
106 32.6 25.4 38.0

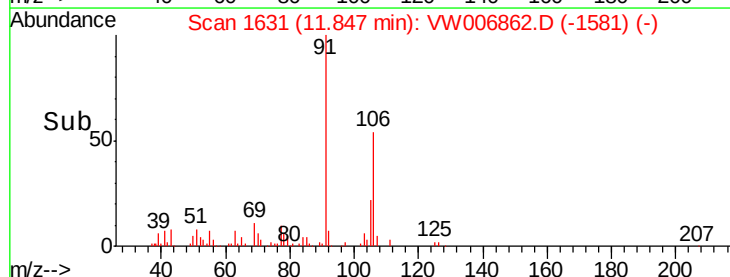
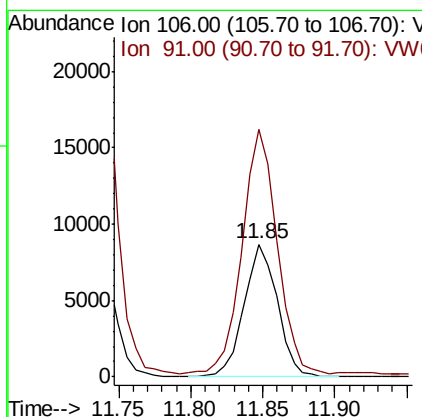
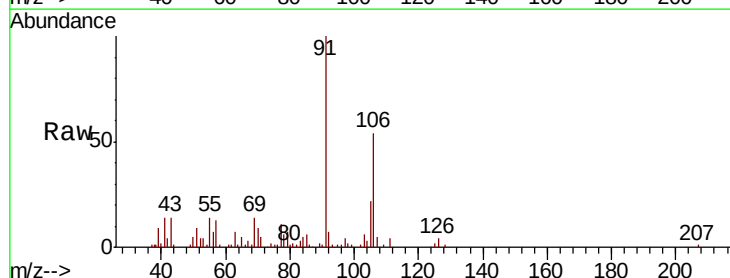
Manual Integrations  
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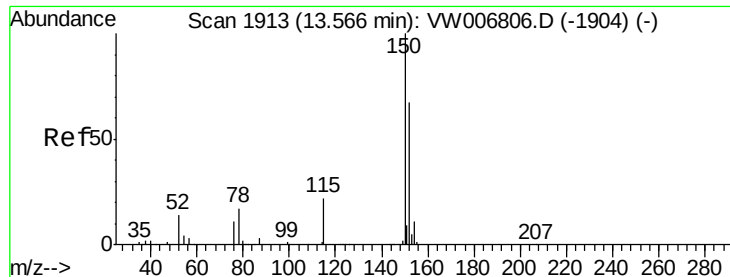


#68  
m/p-Xylenes  
Concen: 2.017 ug/l  
RT: 11.85 min Scan# 1631  
Delta R.T. 0.01 min  
Lab File: VW006862.D  
Acq: 13 Nov 2018 18:35

Tgt Ion: 106 Resp: 13889  
Ion Ratio Lower Upper  
106 100  
91 193.7 155.7 233.5







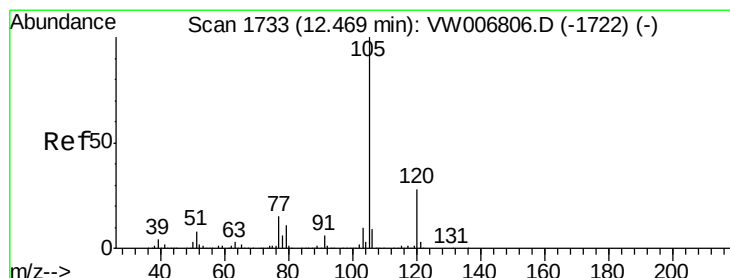
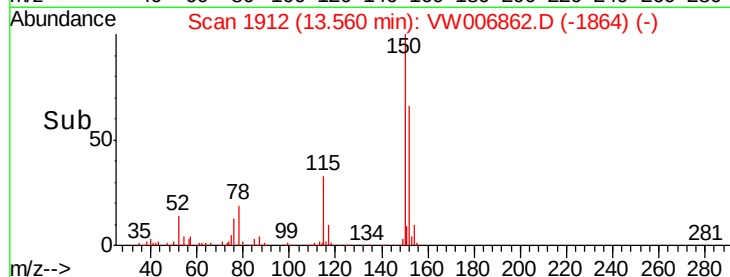
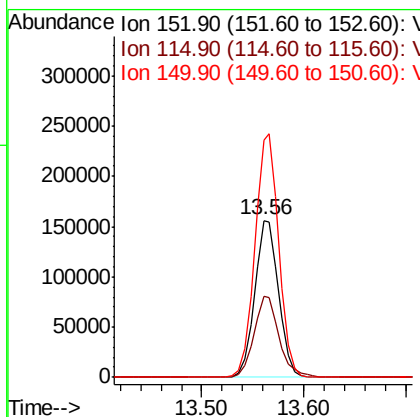
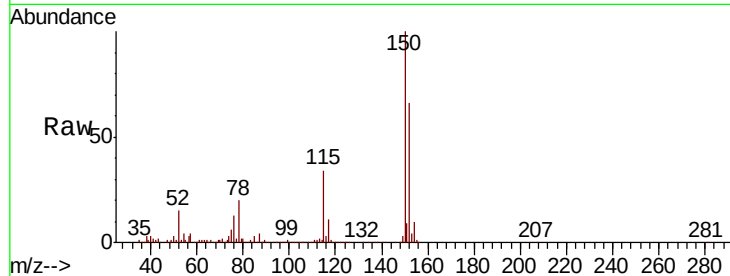
#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.56 min Scan# 1912  
 Delta R.T. -0.01 min  
 Lab File: VW006862.D  
 Acq: 13 Nov 2018 18:35

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 SB-2

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 152     | 100   |      |       |       |
| 115     | 55.3  | 27.3 | 81.8  |       |
| 150     | 155.6 | 0.0  | 353.0 |       |

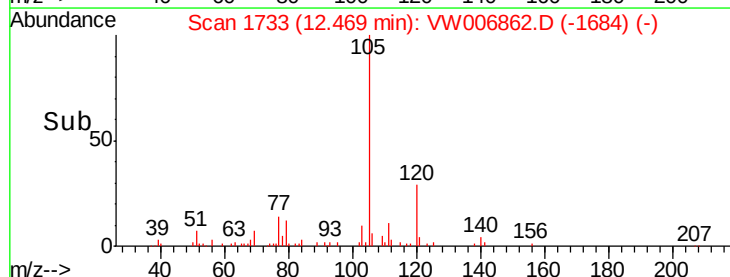
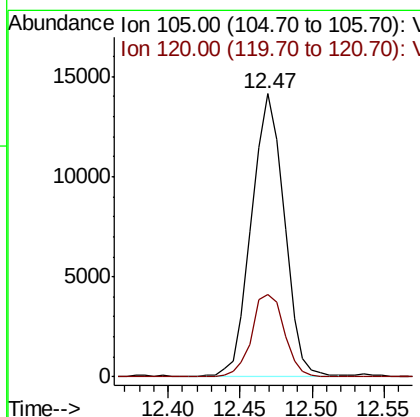
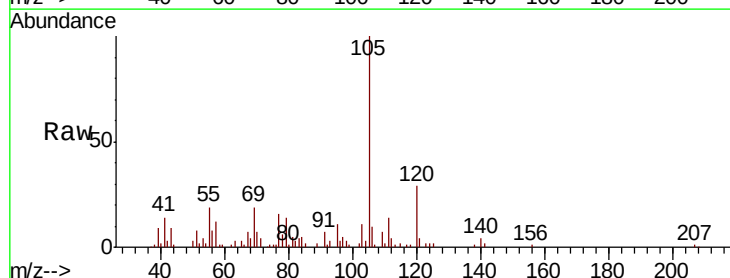
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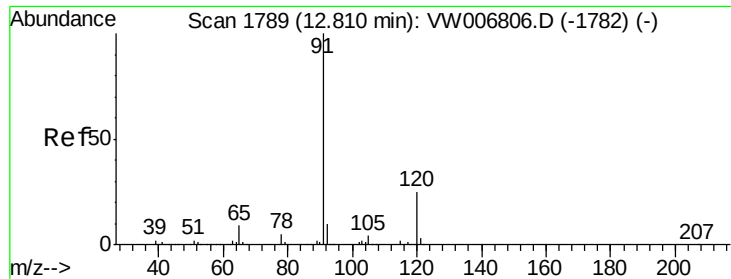
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#73  
 Isopropylbenzene  
 Concen: 1.270 ug/l  
 RT: 12.47 min Scan# 1733  
 Delta R.T. 0.00 min  
 Lab File: VW006862.D  
 Acq: 13 Nov 2018 18:35

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 105     | 100   |      |       |       |
| 120     | 28.8  | 14.0 | 42.0  |       |





#78

n-propylbenzene

Concen: 4.796 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VW006862.D

Acq: 13 Nov 2018 18:35

Instrument :

MSVOA\_W

ClientSampled :

SB-2

Tot Ion: 91 Resp: 99613

Ion Ratio Lower Upper

91 100

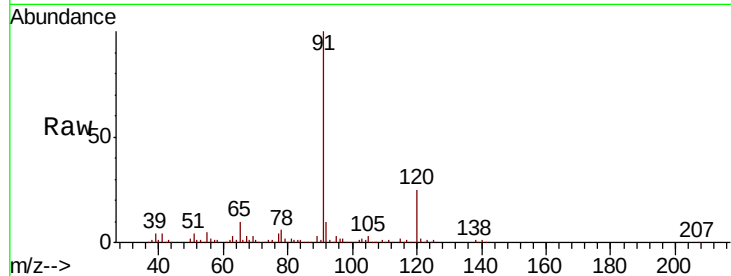
120 25.5 12.4 37.4

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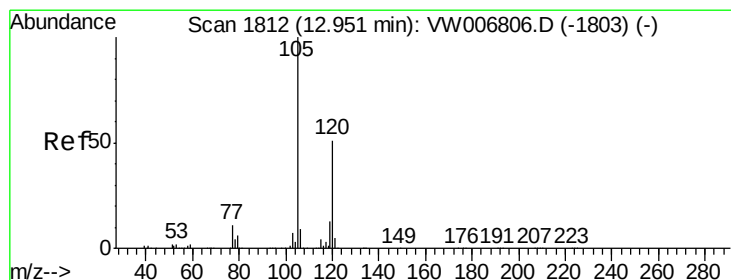
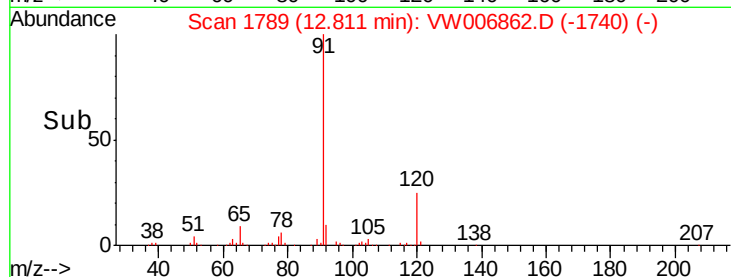
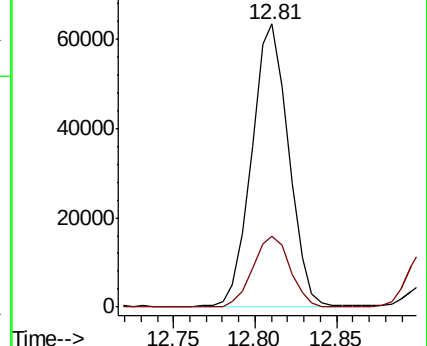
apatel

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Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 3.401 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. 0.00 min

Lab File: VW006862.D

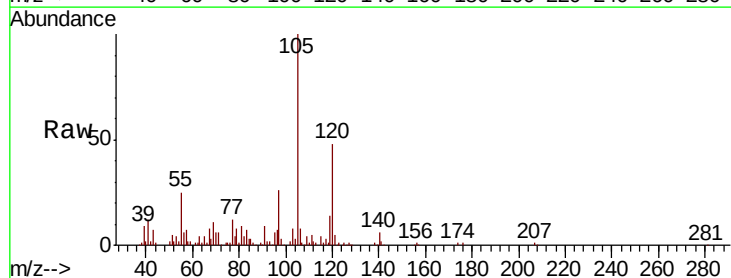
Acq: 13 Nov 2018 18:35

Tgt Ion: 105 Resp: 51447

Ion Ratio Lower Upper

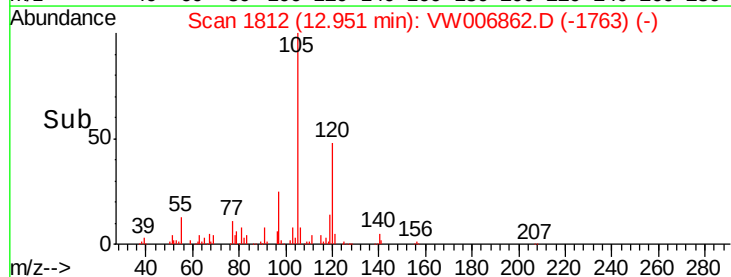
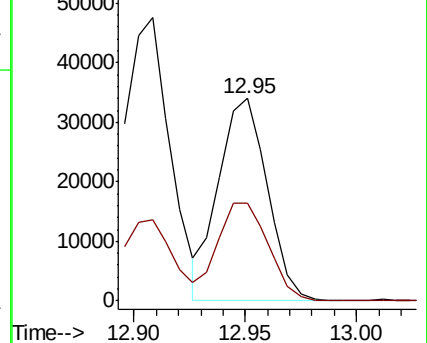
105 100

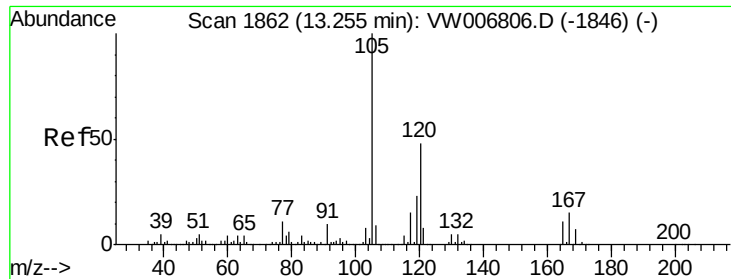
120 50.8 25.3 75.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





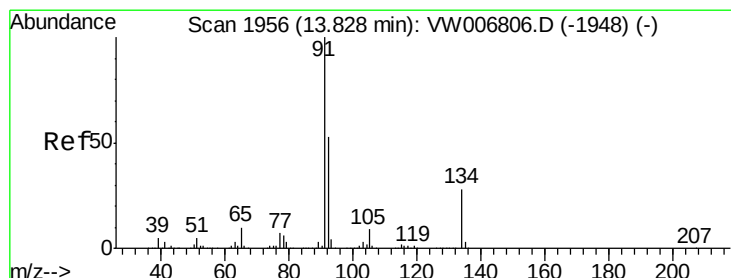
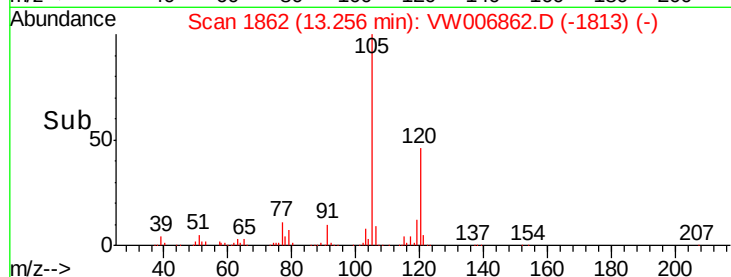
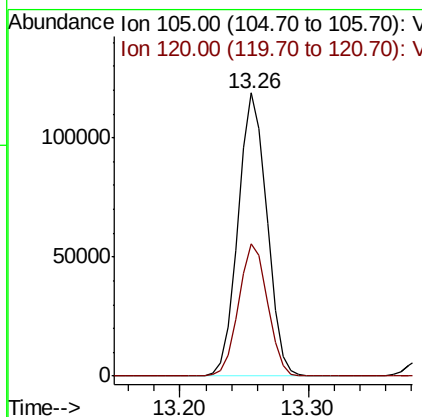
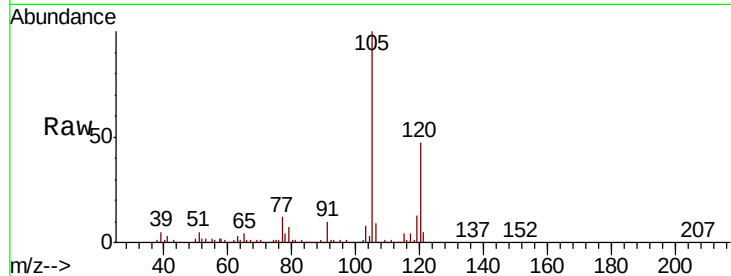
#84  
 1,2,4-Trimethylbenzene  
 Concen: 11.954 ug/l  
 RT: 13.26 min Scan# 1862  
 Delta R.T. 0.00 min  
 Lab File: VW006862.D  
 Acq: 13 Nov 2018 18:35

Instrument :  
 MSVOA\_W  
 ClientSampled :  
 SB-2

Tot Ion: 105 Resp: 184044  
 Ion Ratio Lower Upper  
 105 100  
 120 46.8 23.4 70.0

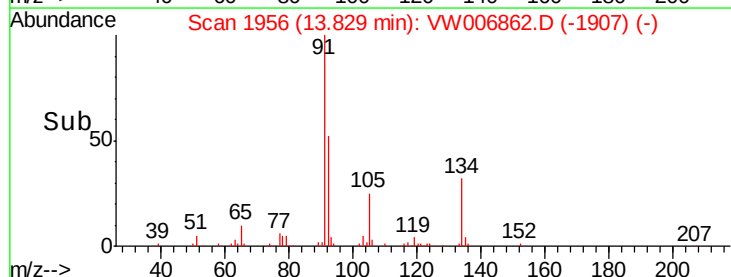
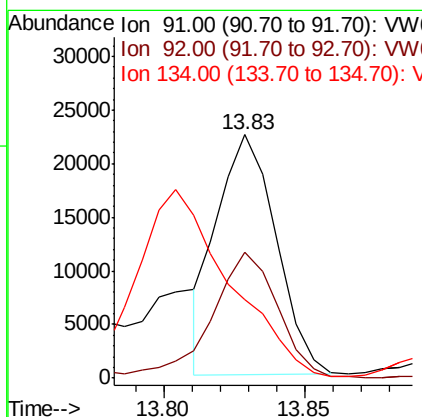
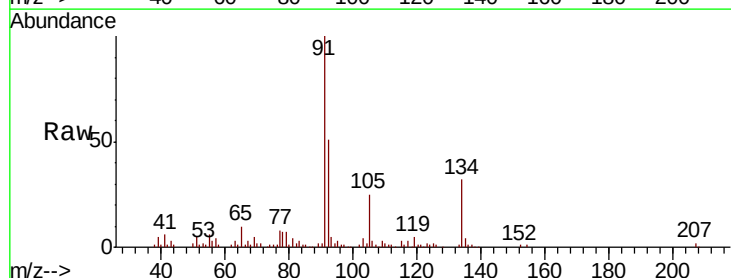
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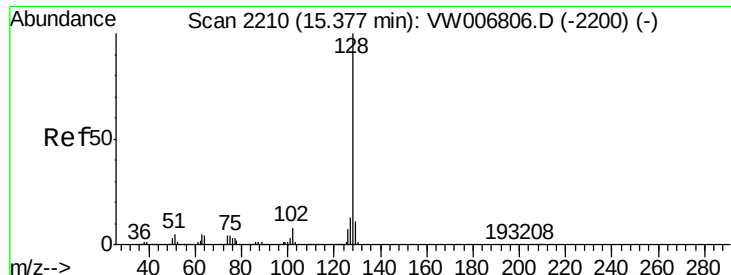
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#89  
 n-Butylbenzene  
 Concen: 2.081 ug/l m  
 RT: 13.83 min Scan# 1956  
 Delta R.T. 0.00 min  
 Lab File: VW006862.D  
 Acq: 13 Nov 2018 18:35

Tgt Ion: 91 Resp: 32785  
 Ion Ratio Lower Upper  
 91 100  
 92 57.4 26.5 79.4  
 134 0.0 14.4 43.2#





#95  
Naphthalene  
Concen: 6.437 ug/l  
RT: 15.38 min Scan# 2210  
Delta R.T. 0.00 min  
Lab File: VW006862.D  
Acq: 13 Nov 2018 18:35

Instrument :  
MSVOA\_W  
ClientSampleId :  
SB-2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 13.4  | 10.3  | 15.5  |
| 129     | 11.2  | 8.6   | 13.0  |

Manual Integrations  
APPROVED

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