

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW082018\  
 Data File : VW004789.D  
 Acq On : 20 Aug 2018 14:28  
 Operator : SY/AP  
 Sample : J4486-01RE  
 Misc : 7.85G/5ML/MSVOA W/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VNJ202RE

Manual Integrations  
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 8/21/2018 11:31:56 AM

Quant Time: Aug 20 15:27:13 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W081918S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 18 01:49:53 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) Pentafluorobenzene       | 7.95  | 168  | 241290   | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.85  | 114  | 377277   | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.63 | 117  | 272921   | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.57 | 152  | 77072    | 50.00 | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.31  | 65   | 113906   | 48.83 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 97.66% |          |
| 35) Dibromofluoromethane    | 7.89  | 113  | 112725   | 46.75 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 93.50% |          |
| 50) Toluene-d8              | 10.33 | 98   | 420309   | 44.65 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 89.30% |          |
| 62) 4-Bromofluorobenzene    | 12.62 | 95   | 101512   | 29.98 | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 59.96% |          |
| Target Compounds            |       |      |          |       |        |          |
| 16) Acetone                 | 4.12  | 43   | 37768    | 63.42 | ug/l   | 98       |
| 17) Carbon Disulfide        | 4.38  | 76   | 8327m    | 1.02  | ug/l   |          |
| 20) Methylene Chloride      | 4.91  | 84   | 19034    | 2.94  | ug/l   | 96       |
| 39) Methylcyclohexane       | 9.34  | 83   | 23884    | 4.91  | ug/l   | 96       |
| 52) Toluene                 | 10.39 | 92   | 11124    | 1.64  | ug/l   | 99       |
| 69) o-Xylene                | 12.17 | 106  | 9828     | 2.74  | ug/l   | 94       |
| 73) Isopropylbenzene        | 12.47 | 105  | 11574m   | 2.21  | ug/l   |          |
| 80) 1,3,5-Trimethylbenzene  | 12.95 | 105  | 25722m   | 5.77  | ug/l   |          |
| 84) 1,2,4-Trimethylbenzene  | 13.26 | 105  | 24378    | 5.32  | ug/l   | 93       |
| 85) sec-Butylbenzene        | 13.39 | 105  | 12607m   | 2.22  | ug/l   |          |

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

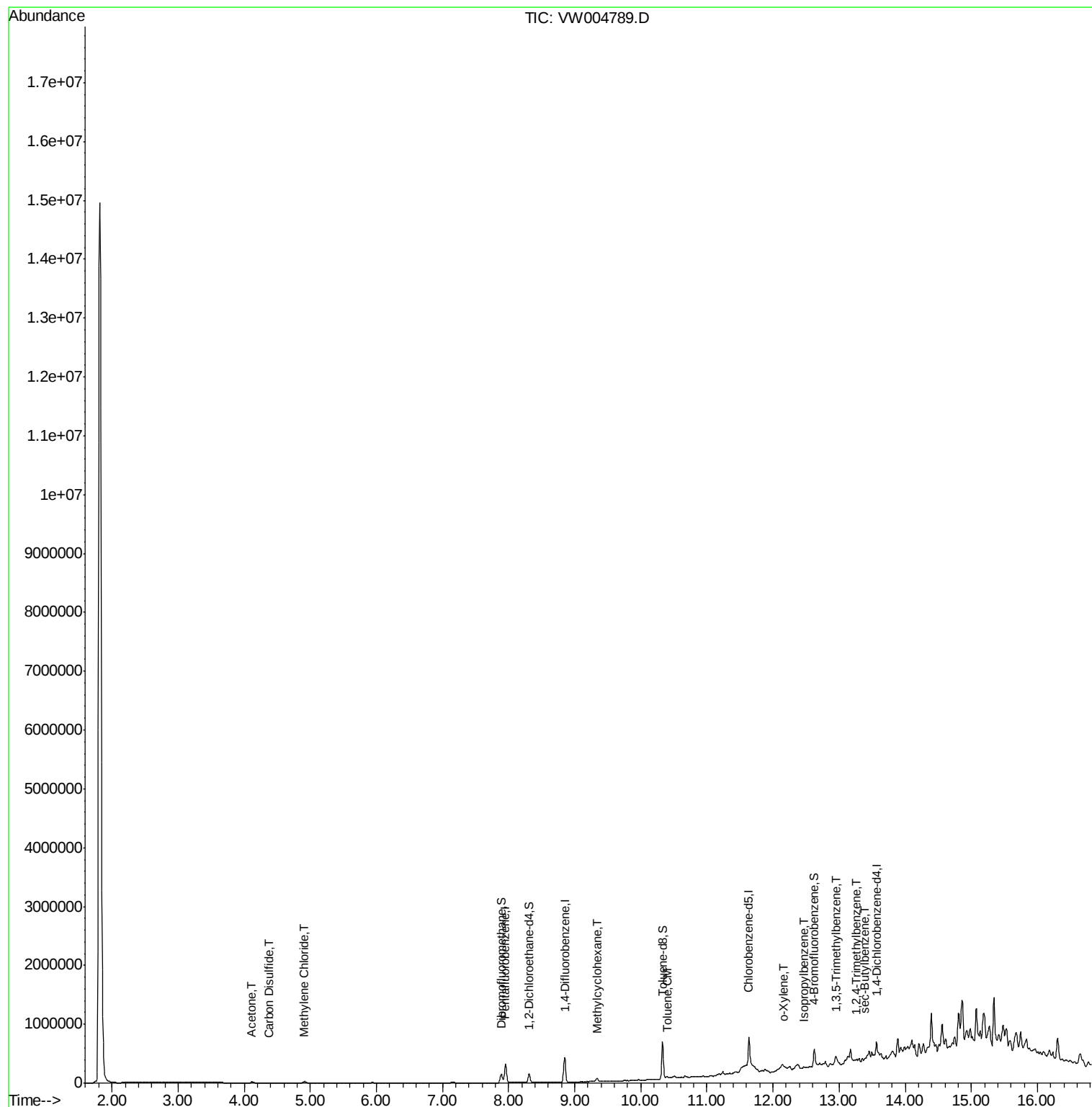
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW082018\  
Data File : VW004789.D  
Acq On : 20 Aug 2018 14:28  
Operator : SY/AP  
Sample : J4486-01RE  
Misc : 7.85G/5ML/MSVOA W/SOIL  
ALS Vial : 7 Sample Multiplier: 1

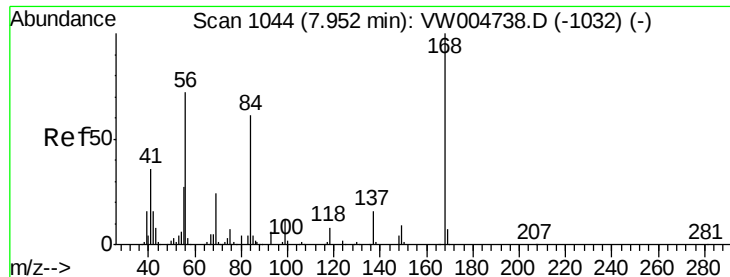
Instrument :  
MSVOA\_W  
ClientSampleId :  
VNJ202RE

Manual Integrations  
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Quant Time: Aug 20 15:27:13 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\82W081918S.M  
Quant Title : SW846 8260  
QLast Update : Sat Aug 18 01:49:53 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: VW004789.D

Acq: 20 Aug 2018 14:28

Instrument :

MSVOA\_W

ClientSampled :

VNJ202RE

Tot Ion:168 Resp: 241290

Ion Ratio Lower Upper

168 100

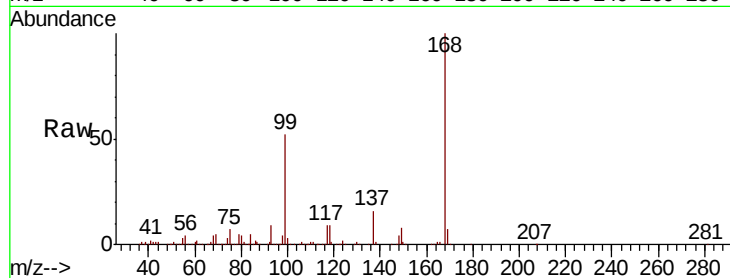
99 51.9 41.0 61.4

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

120000

100000

80000

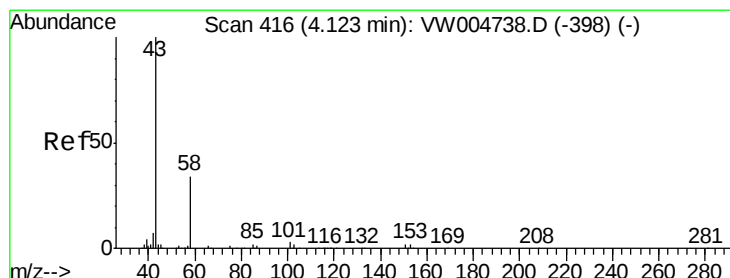
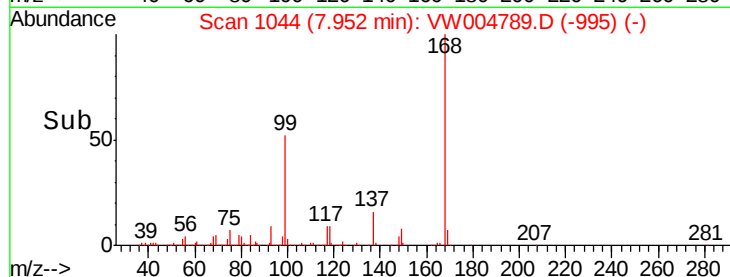
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 63.42 ug/l

RT: 4.12 min Scan# 415

Delta R.T. -0.01 min

Lab File: VW004789.D

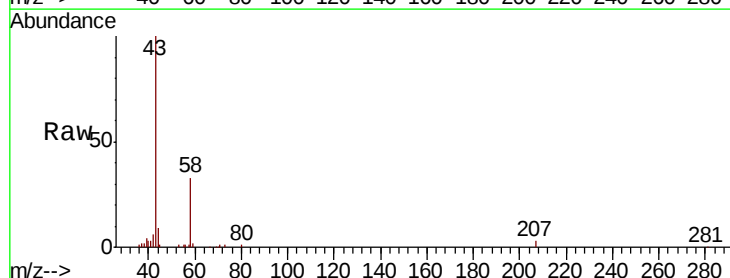
Acq: 20 Aug 2018 14:28

Tgt Ion: 43 Resp: 37768

Ion Ratio Lower Upper

43 100

58 33.0 27.3 40.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

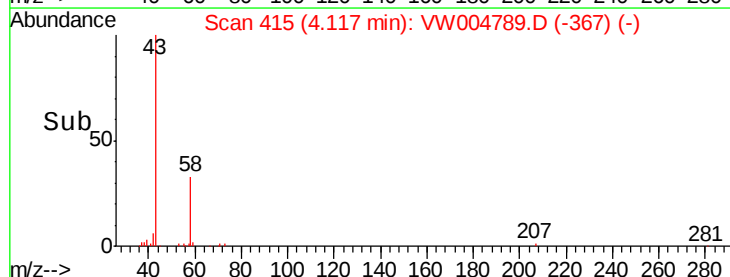
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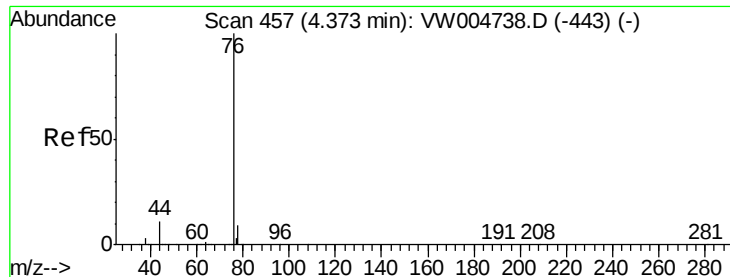
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5000

0

Time-->





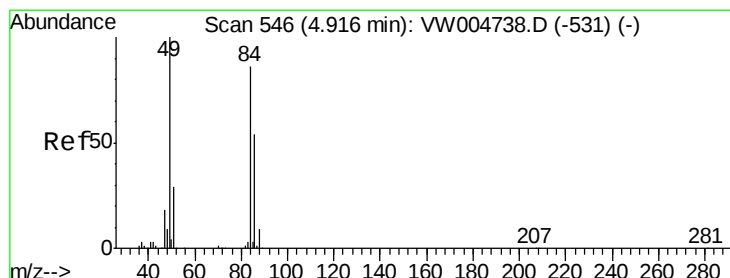
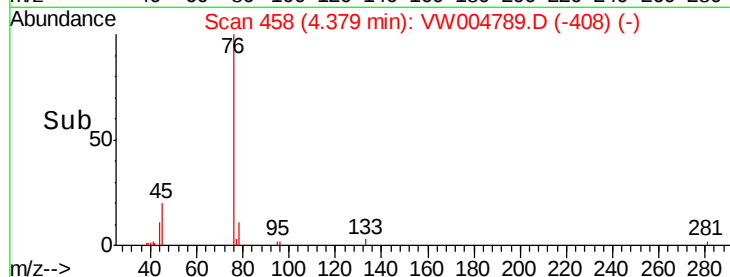
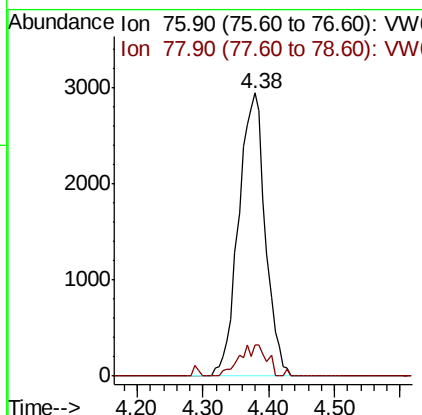
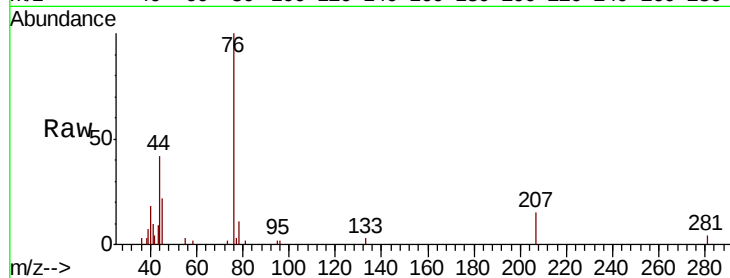
#17  
Carbon Disulfide  
Concen: 1.02 ug/l m  
RT: 4.38 min Scan# 458  
Delta R.T. 0.01 min  
Lab File: VW004789.D  
Acq: 20 Aug 2018 14:28

Instrument :  
MSVOA\_W  
ClientSampleId :  
VNJ202RE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 11.2  | 7.4   | 11.2# |

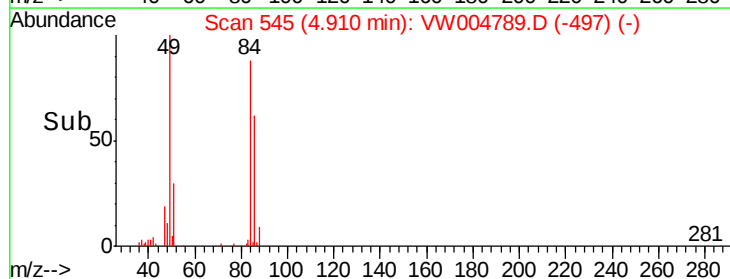
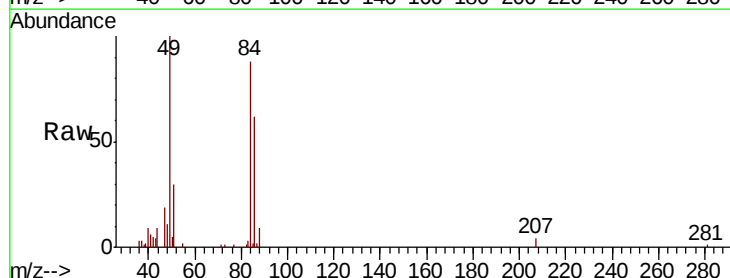
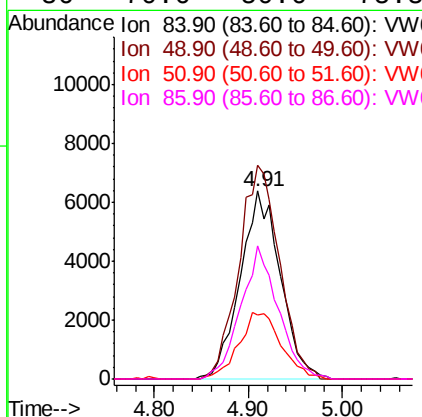
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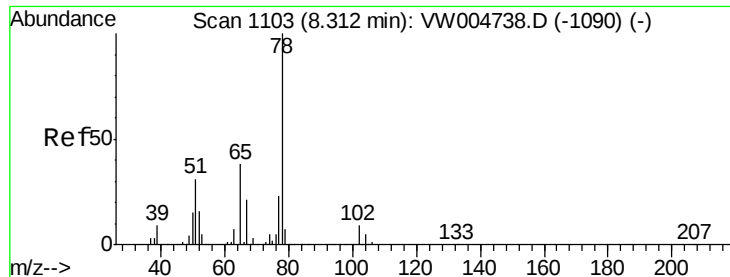
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#20  
Methylene Chloride  
Concen: 2.94 ug/l  
RT: 4.91 min Scan# 545  
Delta R.T. -0.01 min  
Lab File: VW004789.D  
Acq: 20 Aug 2018 14:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 113.8 | 93.2  | 139.8 |
| 51      | 33.8  | 27.4  | 41.0  |
| 86      | 70.6  | 50.6  | 75.8  |





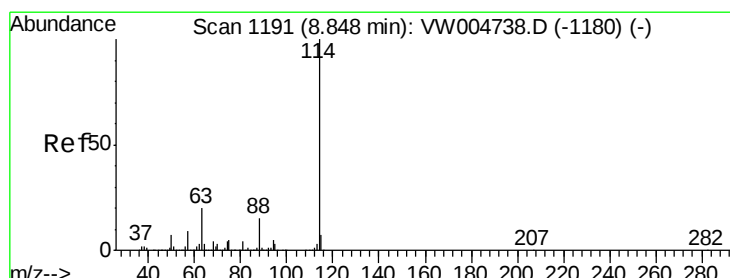
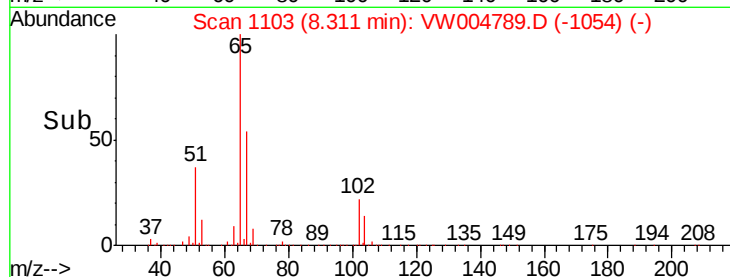
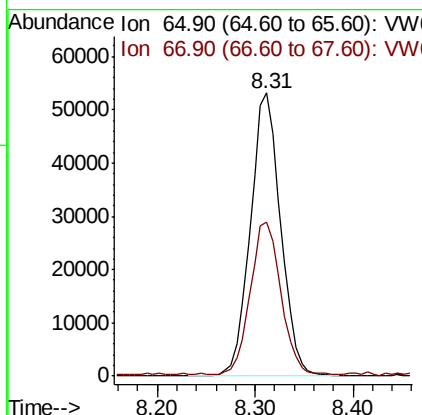
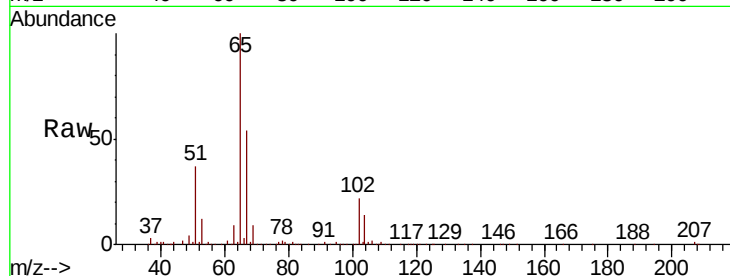
#33  
 1,2-Dichloroethane-d4  
 Concen: 48.83 ug/l  
 RT: 8.31 min Scan# 1103  
 Delta R.T. -0.00 min  
 Lab File: VW004789.D  
 Acq: 20 Aug 2018 14:28

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VNJ202RE

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 65      | 100   | 113906 |       |       |
| 67      | 54.8  | 0.0    | 109.4 |       |

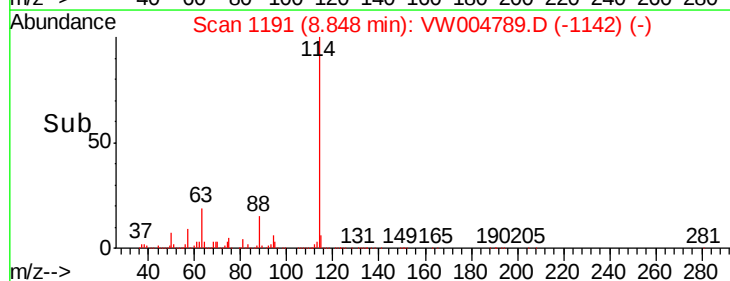
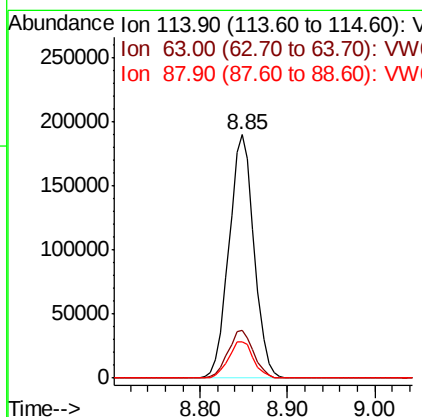
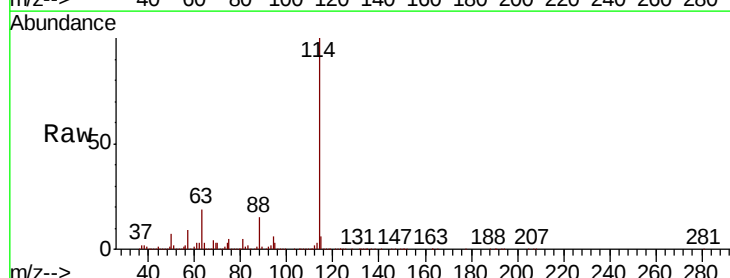
Manual Integrations  
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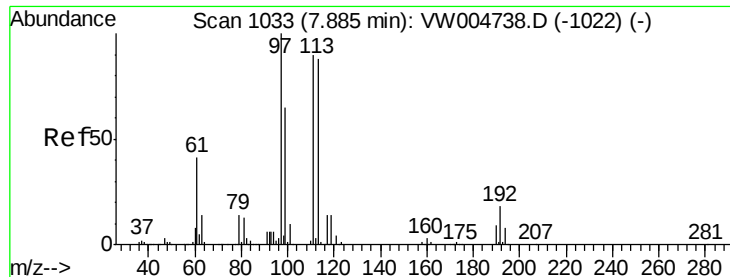
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#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.85 min Scan# 1191  
 Delta R.T. -0.00 min  
 Lab File: VW004789.D  
 Acq: 20 Aug 2018 14:28

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 377277 |       |       |
| 63      | 19.4  | 0.0    | 39.0  |       |
| 88      | 15.0  | 0.0    | 30.0  |       |





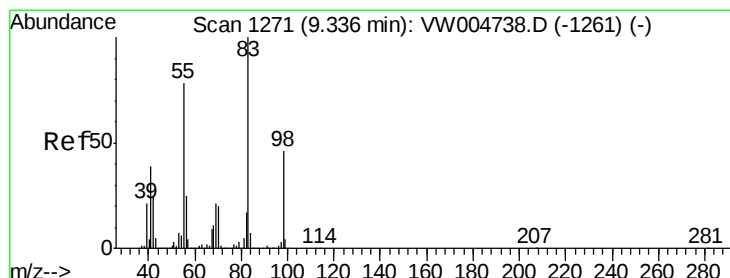
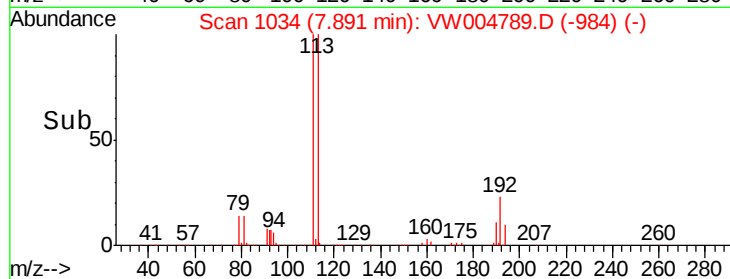
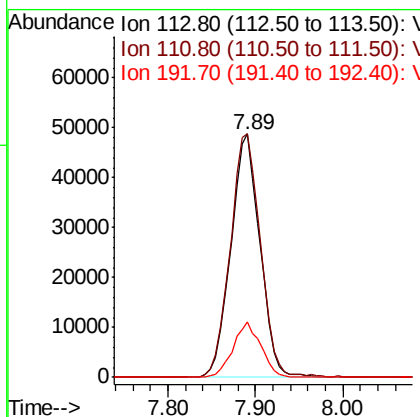
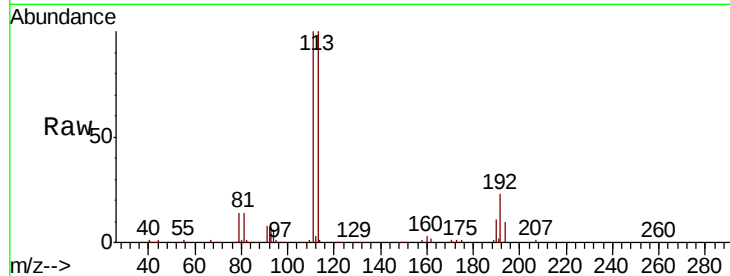
#35  
 Dibromofluoromethane  
 Concen: 46.75 ug/l  
 RT: 7.89 min Scan# 1034  
 Delta R.T. 0.01 min  
 Lab File: VW004789.D  
 Acq: 20 Aug 2018 14:28

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VNJ202RE

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 112725 |       |       |
| 111     | 103.7 | 82.4   | 123.6 |       |
| 192     | 21.6  | 16.7   | 25.1  |       |

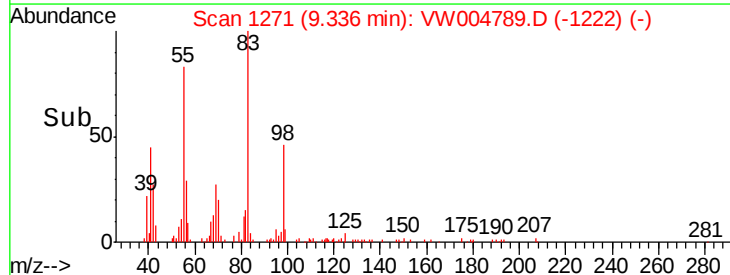
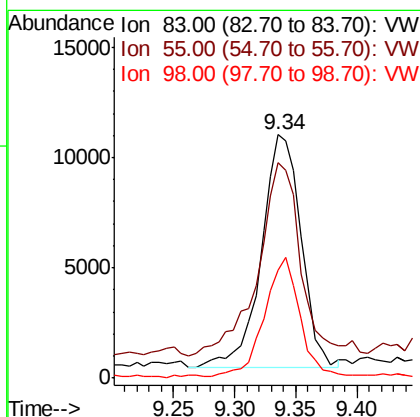
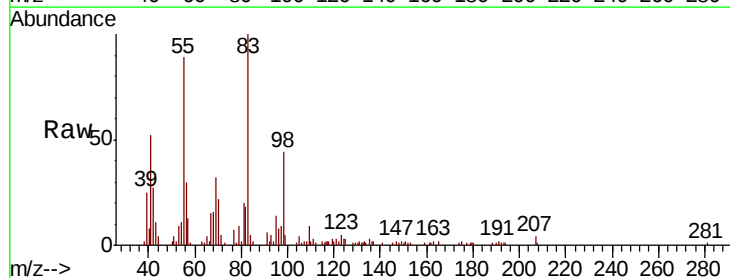
Manual Integrations  
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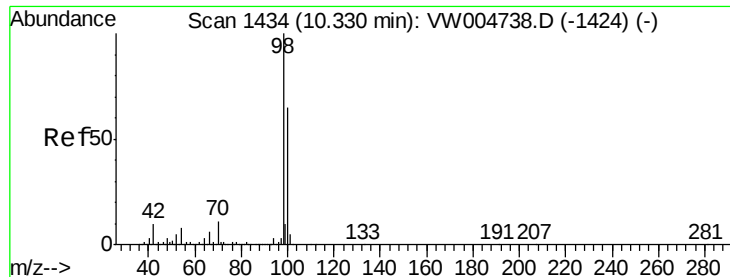
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#39  
 Methylcyclohexane  
 Concen: 4.91 ug/l  
 RT: 9.34 min Scan# 1271  
 Delta R.T. -0.00 min  
 Lab File: VW004789.D  
 Acq: 20 Aug 2018 14:28

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 83      | 100   | 23884 |       |       |
| 55      | 83.2  | 62.4  | 93.6  |       |
| 98      | 44.8  | 36.5  | 54.7  |       |





#50

Toluene-d8

Concen: 44.65 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW004789.D

Acq: 20 Aug 2018 14:28

Instrument :

MSVOA\_W

ClientSampled :

VNJ202RE

Tot Ion: 98 Resp: 420309

Ion Ratio Lower Upper

98 100

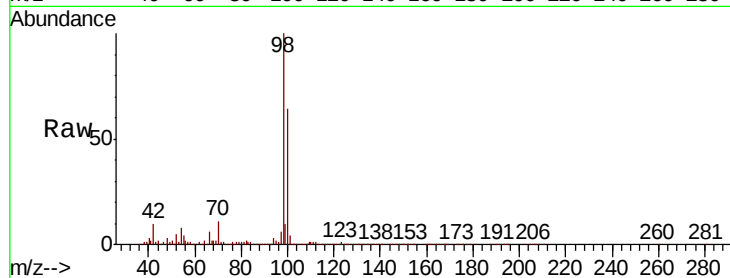
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Manual Integrations

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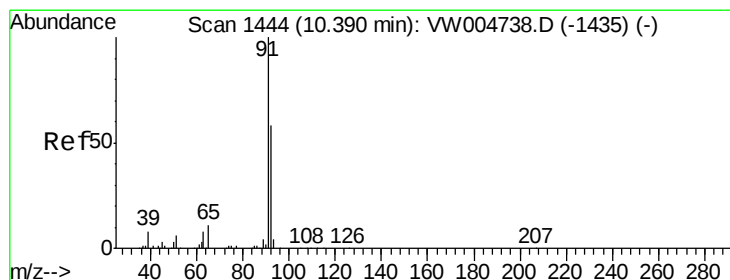
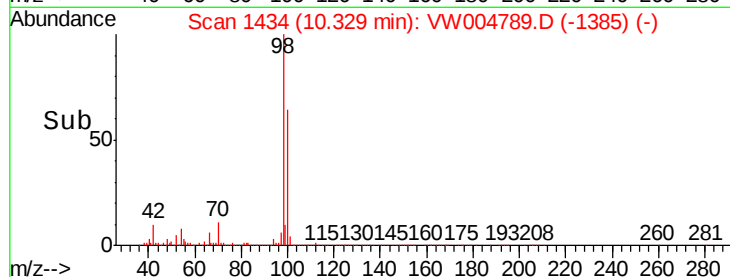
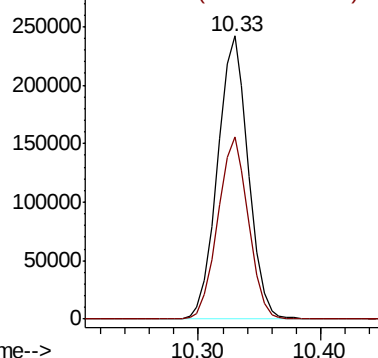
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Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#52

Toluene

Concen: 1.64 ug/l

RT: 10.39 min Scan# 1444

Delta R.T. -0.00 min

Lab File: VW004789.D

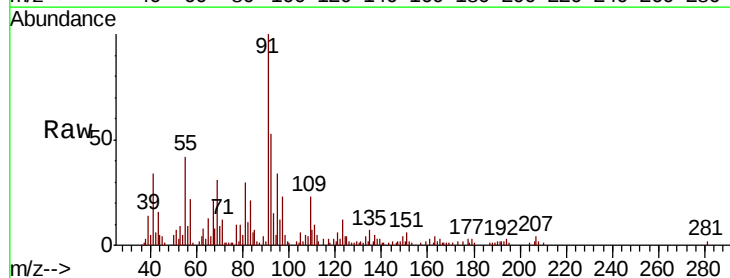
Acq: 20 Aug 2018 14:28

Tgt Ion: 92 Resp: 11124

Ion Ratio Lower Upper

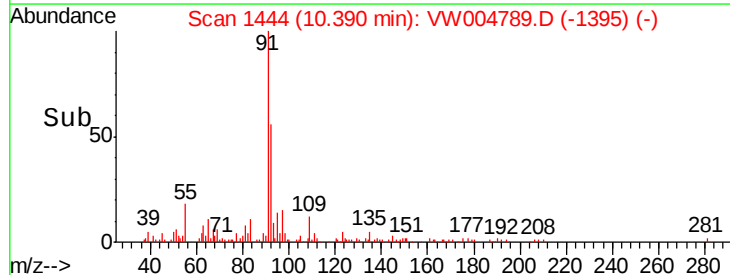
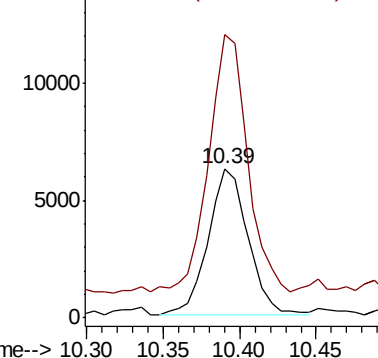
92 100

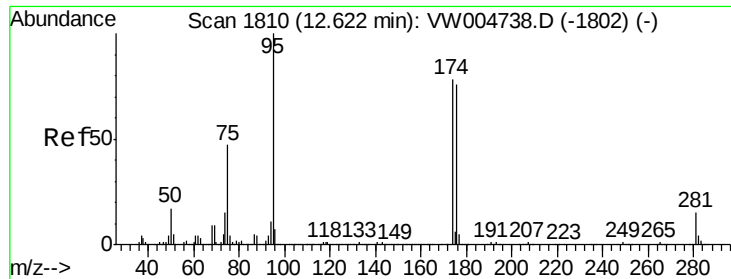
91 174.0 138.3 207.5



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





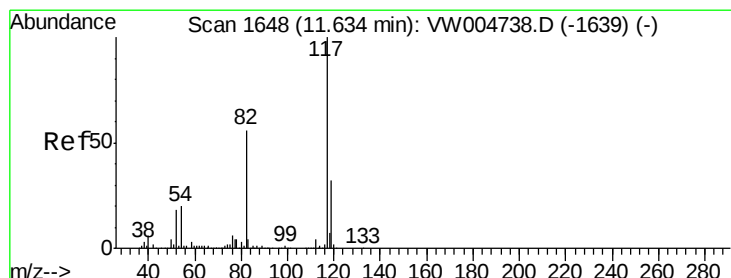
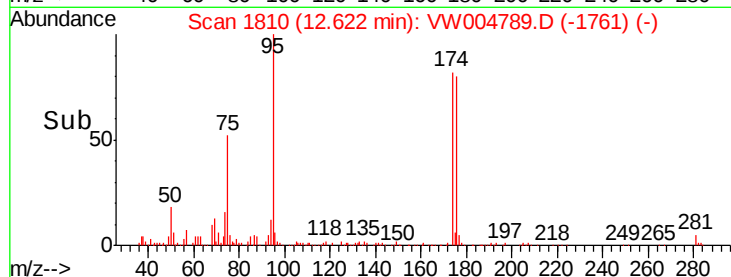
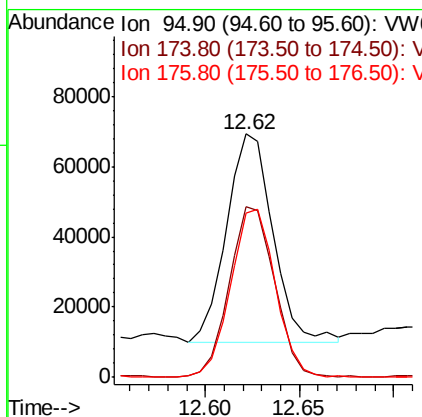
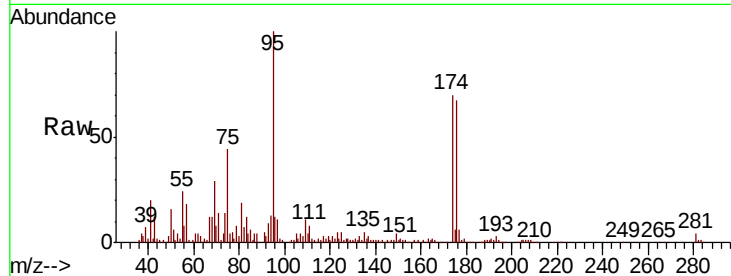
#62  
4-Bromofluorobenzene  
Concen: 29.98 ug/l  
RT: 12.62 min Scan# 1810  
Delta R.T. -0.00 min  
Lab File: VW004789.D  
Acq: 20 Aug 2018 14:28

Instrument :  
MSVOA\_W  
ClientSampleId :  
VNJ202RE

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 101512 |       |       |
| 174     | 78.5  | 0.0    | 165.8 |       |
| 176     | 77.4  | 0.0    | 159.8 |       |

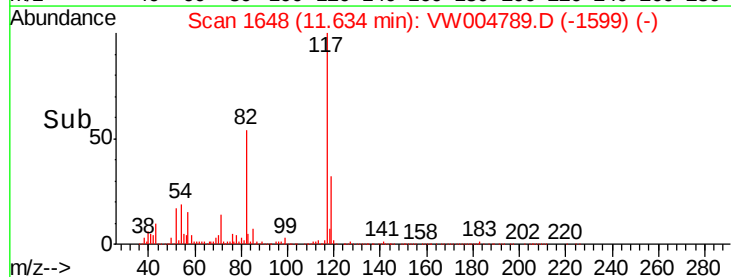
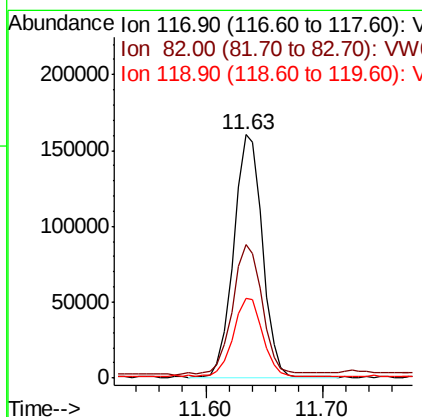
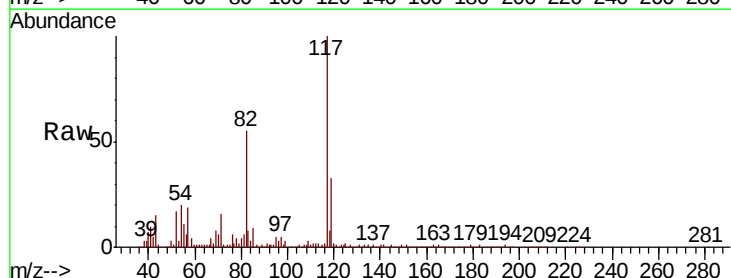
Manual Integrations  
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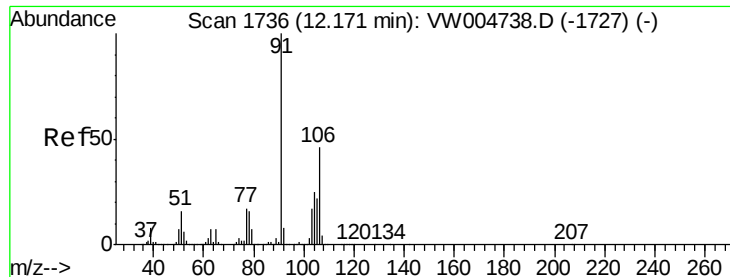
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#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.63 min Scan# 1648  
Delta R.T. -0.00 min  
Lab File: VW004789.D  
Acq: 20 Aug 2018 14:28

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 272921 |       |       |
| 82      | 53.1  | 44.6   | 67.0  |       |
| 119     | 31.9  | 25.6   | 38.4  |       |





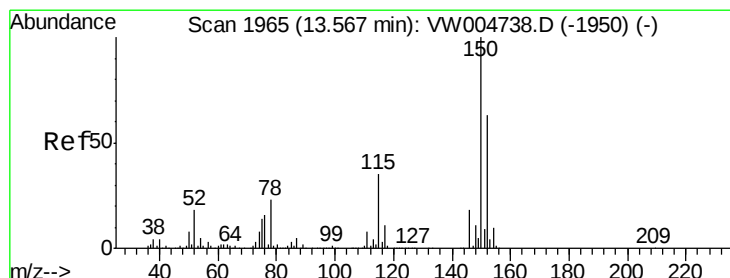
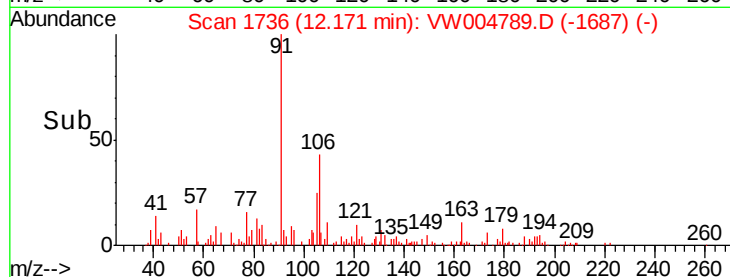
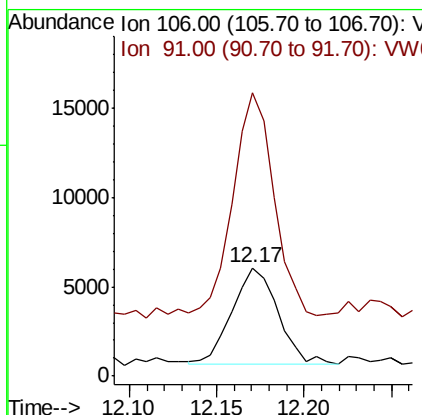
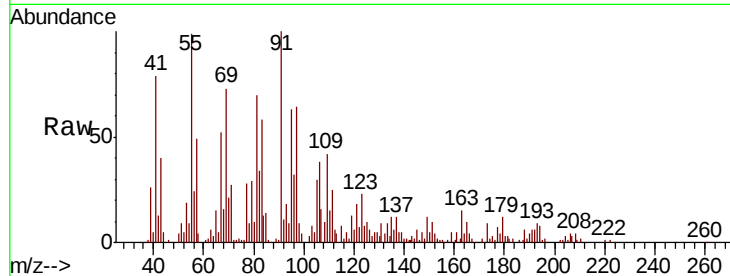
#69  
o-Xylene  
Concen: 2.74 ug/l  
RT: 12.17 min Scan# 1736  
Delta R.T. -0.00 min  
Lab File: VW004789.D  
Acq: 20 Aug 2018 14:28

Instrument :  
MSVOA\_W  
ClientSampleID :  
VNJ202RE

Tot Ion:106 Resp: 9828  
Ion Ratio Lower Upper  
106 100  
91 205.6 107.3 321.8

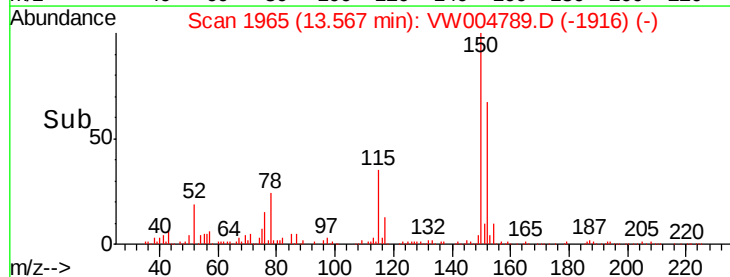
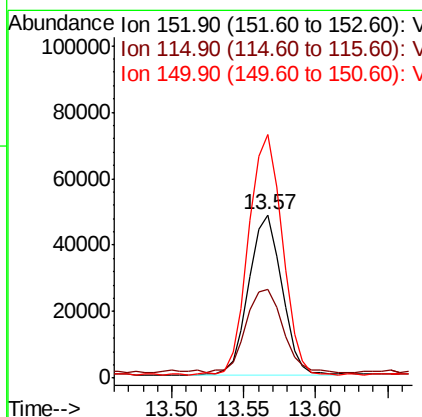
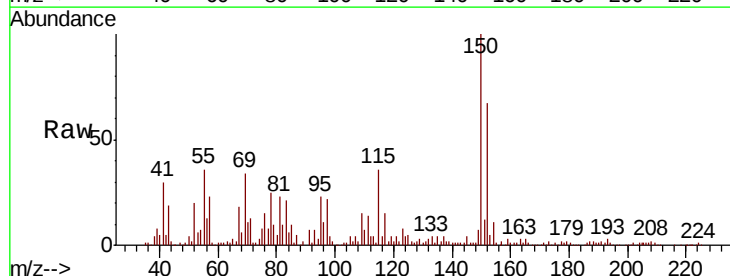
Manual Integrations  
APPROVED

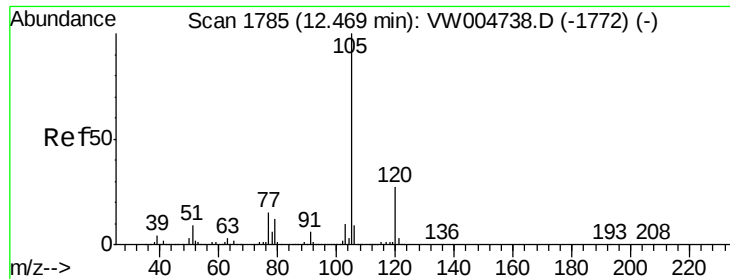
apatel  
8/21/2018 11:31:56 AM



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.57 min Scan# 1965  
Delta R.T. -0.00 min  
Lab File: VW004789.D  
Acq: 20 Aug 2018 14:28

Tgt Ion:152 Resp: 77072  
Ion Ratio Lower Upper  
152 100  
115 57.9 28.5 85.5  
150 151.2 0.0 344.8





#73

Isopropylbenzene

Concen: 2.21 ug/l m

RT: 12.47 min Scan# 1785

Delta R.T. -0.00 min

Lab File: VW004789.D

Acq: 20 Aug 2018 14:28

Instrument :

MSVOA\_W

ClientSampled :

VNJ202RE

Tot Ion:105 Resp: 11574

Ion Ratio Lower Upper

105 100

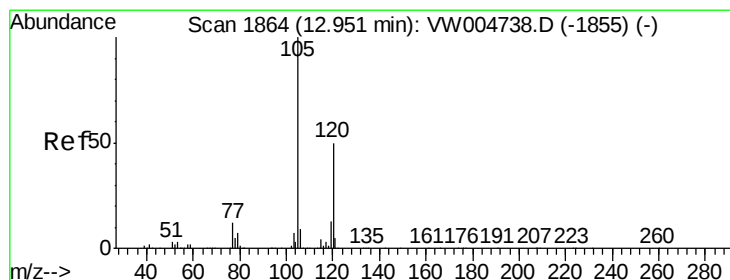
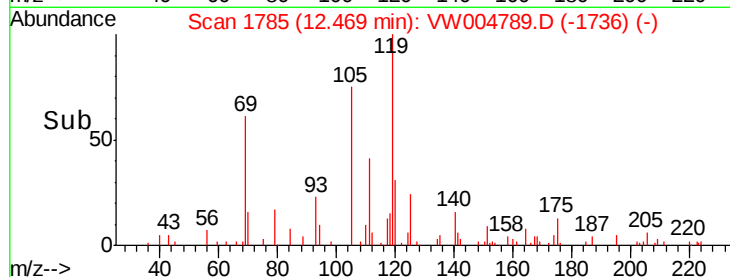
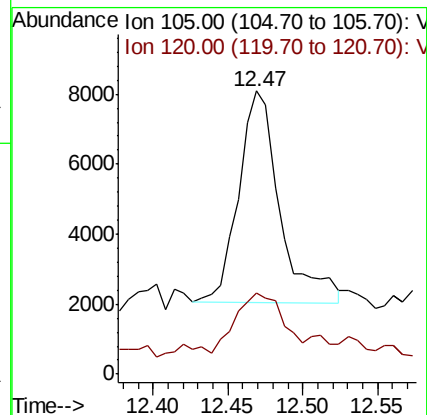
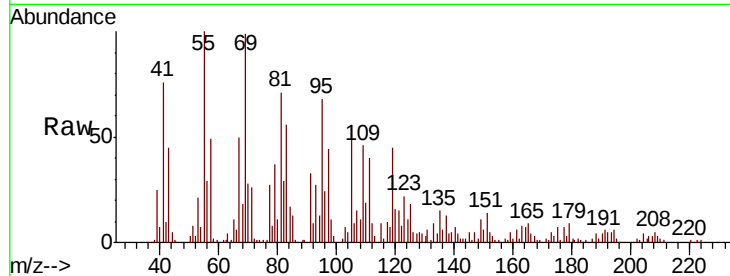
120 0.0 13.3 39.9#

Manual Integrations

APPROVED

apatel

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#80

1,3,5-Trimethylbenzene

Concen: 5.77 ug/l m

RT: 12.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VW004789.D

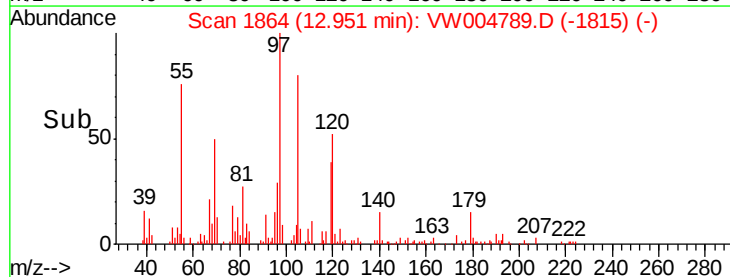
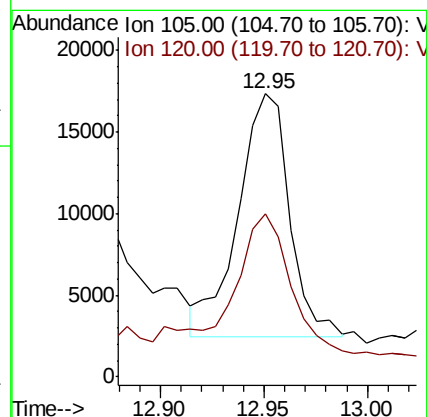
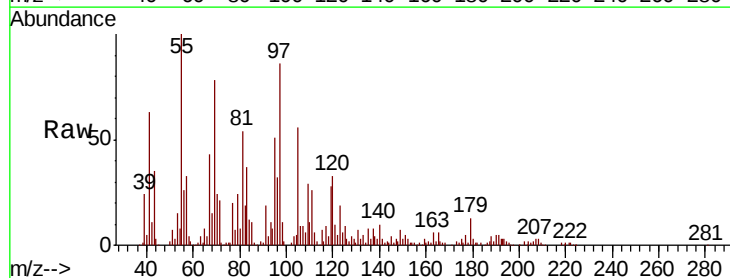
Acq: 20 Aug 2018 14:28

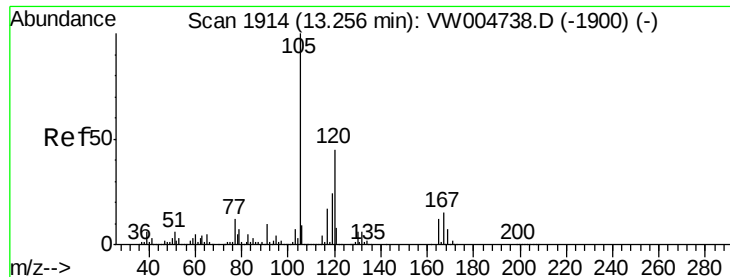
Tgt Ion:105 Resp: 25722

Ion Ratio Lower Upper

105 100

120 0.0 24.7 74.1#





#84

1,2,4-Trimethylbenzene

Concen: 5.32 ug/l

RT: 13.26 min Scan# 1914

Delta R.T. -0.00 min

Lab File: VW004789.D

Acq: 20 Aug 2018 14:28

Instrument :

MSVOA\_W

ClientSampled :

VNJ202RE

Tot Ion:105 Resp: 24378

Ion Ratio Lower Upper

105 100

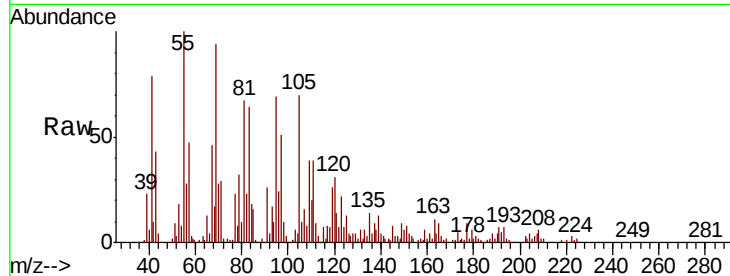
120 50.1 22.8 68.3

Manual Integrations

APPROVED

apatel

8/21/2018 11:31:56 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

13.26

15000

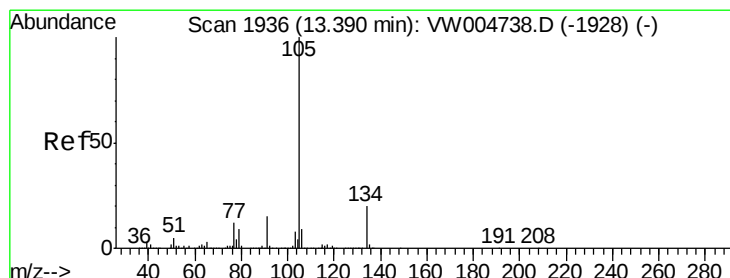
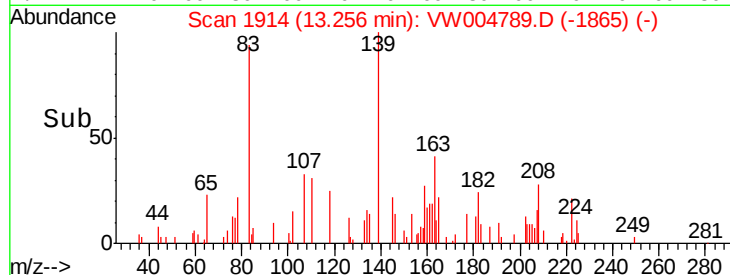
10000

5000

0

13.20 13.25 13.30

Time-->



#85

sec-Butylbenzene

Concen: 2.22 ug/l m

RT: 13.39 min Scan# 1936

Delta R.T. -0.00 min

Lab File: VW004789.D

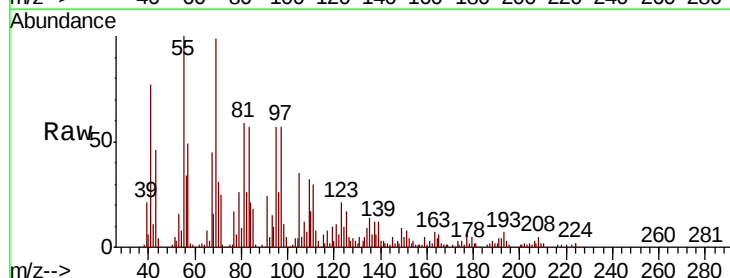
Acq: 20 Aug 2018 14:28

Tgt Ion:105 Resp: 12607

Ion Ratio Lower Upper

105 100

134 0.0 10.0 29.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.39

10000

8000

6000

4000

2000

0

13.35 13.40

Time-->

