

Data File : VU024885.D  
Acq On : 25 Jun 2018 19:22  
Operator : MD/SY  
Sample : J3663-01ME  
Misc : 6.40g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
WP021SB472-11-13-180618ME

Manual Integrations  
APPROVED

apatel  
6/27/2018 11:20:02 AM

Quant Time: Jul 03 04:19:48 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U061318W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 13 13:55:26 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.98  | 168  | 216689   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 333759   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 323712   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 194714   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 5.31   | 65  | 158876   | 44.91 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 89.82%  |      |
| 35) Dibromofluoromethane    | 4.88   | 113 | 127007   | 45.85 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 91.70%  |      |
| 50) Toluene-d8              | 7.57   | 98  | 484863   | 47.99 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 95.98%  |      |
| 62) 4-Bromofluorobenzene    | 10.32  | 95  | 204739   | 51.04 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.08% |      |

|                            |       |     |        |        |          |
|----------------------------|-------|-----|--------|--------|----------|
| Target Compounds           |       |     |        |        | Qvalue   |
| 16) Acetone                | 2.35  | 43  | 25354  | 13.339 | ug/l 99  |
| 25) 2-Butanone             | 4.29  | 43  | 15940  | 6.243  | ug/l 92  |
| 27) cis-1,2-Dichloroethene | 4.23  | 96  | 3101m  | 0.993  | ug/l     |
| 52) Toluene                | 7.64  | 92  | 4249   | 0.591  | ug/l 95  |
| 65) Chlorobenzene          | 9.12  | 112 | 48334  | 5.845  | ug/l 99  |
| 80) 1,3,5-Trimethylbenzene | 10.78 | 105 | 9777   | 0.755  | ug/l 100 |
| 84) 1,2,4-Trimethylbenzene | 11.15 | 105 | 24621  | 1.865  | ug/l 99  |
| 86) p-Isopropyltoluene     | 11.43 | 119 | 3529   | 0.253  | ug/l 96  |
| 87) 1,3-Dichlorobenzene    | 11.43 | 146 | 24365  | 3.485  | ug/l 97  |
| 88) 1,4-Dichlorobenzene    | 11.51 | 146 | 50425  | 7.165  | ug/l 95  |
| 91) 1,2-Dichlorobenzene    | 11.89 | 146 | 381312 | 54.446 | ug/l 100 |
| 95) Naphthalene            | 13.75 | 128 | 17984  | 1.918  | ug/l 98  |

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

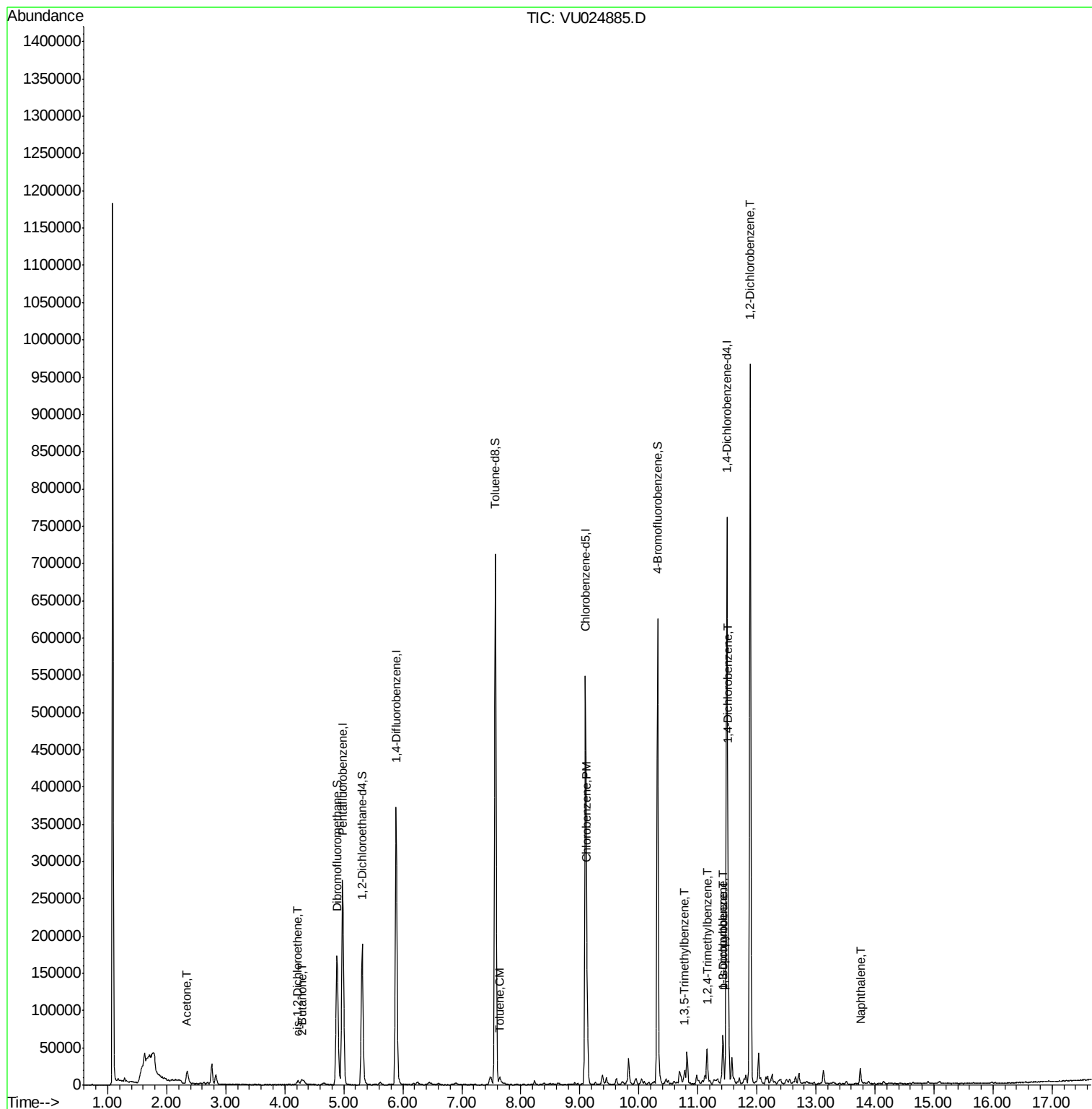
Data File : VU024885.D  
Acq On : 25 Jun 2018 19:22  
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Misc : 6.40g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
ALS Vial : 22 Sample Multiplier: 1

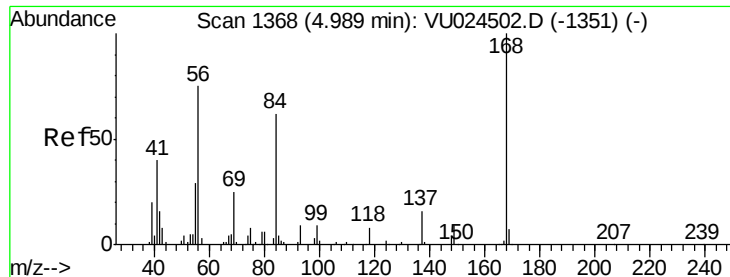
Instrument :  
MSVOA\_U  
ClientSampleId :  
WP021SB472-11-13-180618ME

Manual Integrations  
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1365

Delta R.T. -0.01 min

Lab File: VU024885.D

Acq: 25 Jun 2018 19:22

Instrument :

MSVOA\_U

ClientSampleId :

WP021SB472-11-13-180618ME

Tgt Ion: 168 Resp: 216689

Ion Ratio Lower Upper

168 100

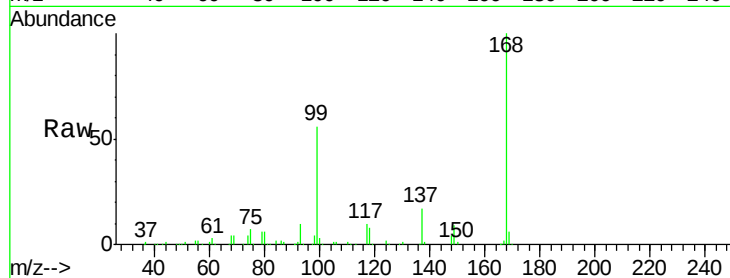
99 55.5 43.2 64.8

Manual Integrations

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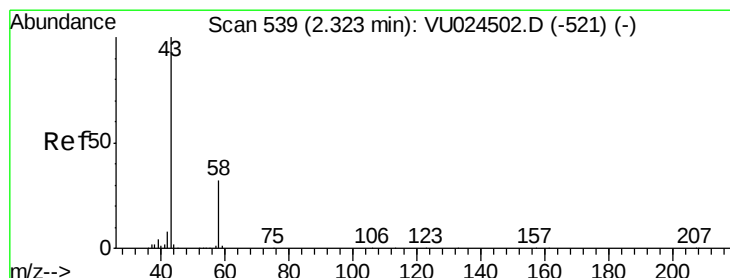
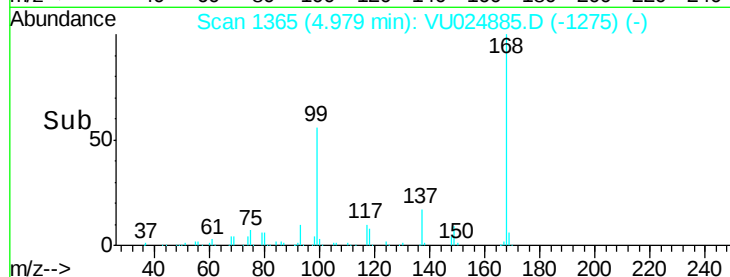
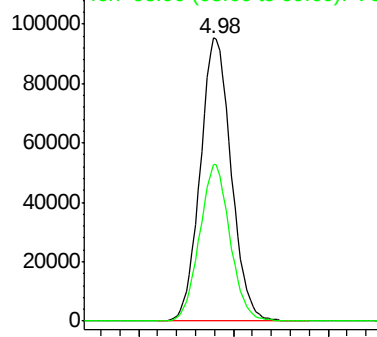
apatel

6/27/2018 11:20:02 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#16

Acetone

Concen: 13.339 ug/l

RT: 2.35 min Scan# 546

Delta R.T. 0.02 min

Lab File: VU024885.D

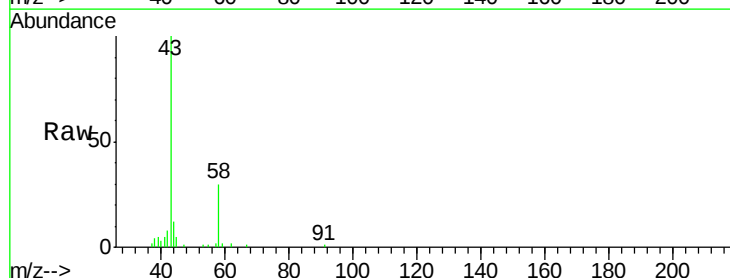
Acq: 25 Jun 2018 19:22

Tgt Ion: 43 Resp: 25354

Ion Ratio Lower Upper

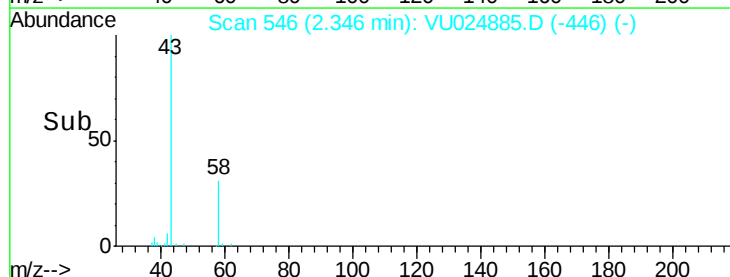
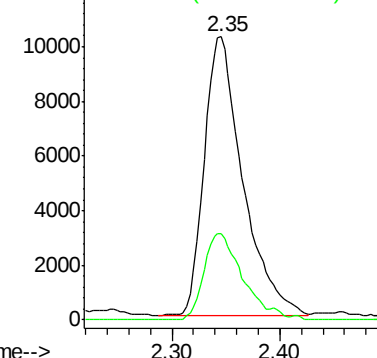
43 100

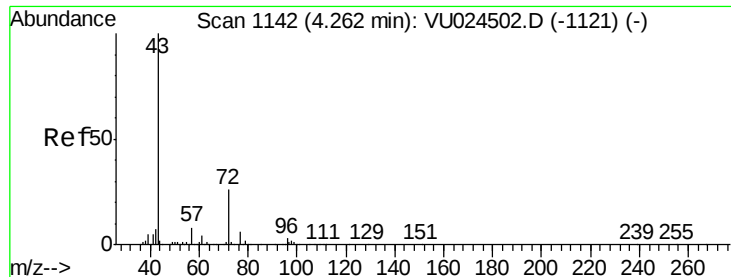
58 30.9 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





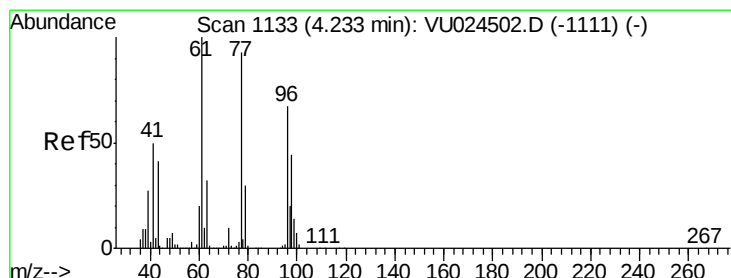
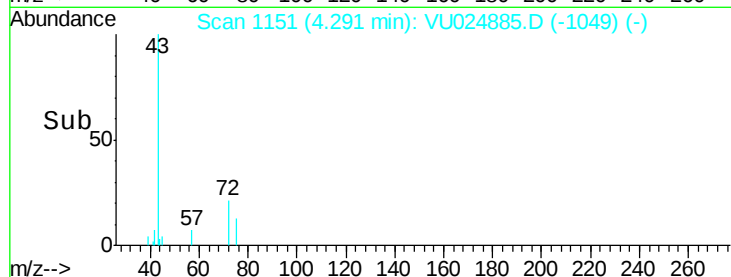
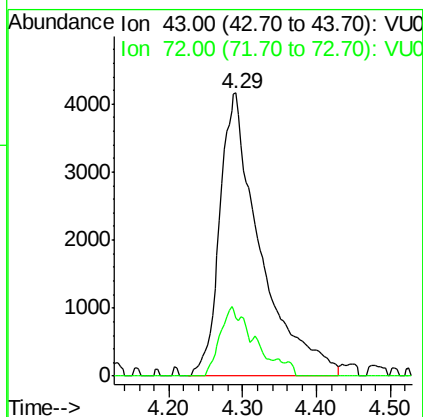
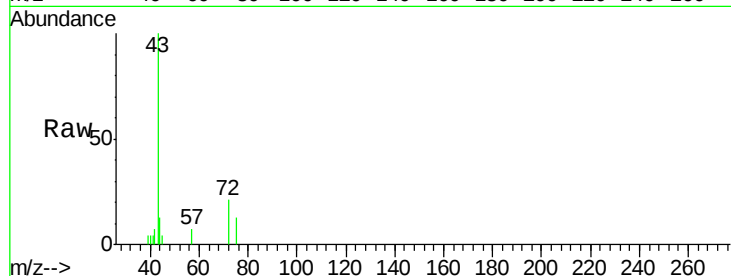
#25  
2-Butanone  
Concen: 6.243 ug/l  
RT: 4.29 min Scan# 1151  
Delta R.T. 0.03 min  
Lab File: VU024885.D  
Acq: 25 Jun 2018 19:22

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MSVOA\_U  
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WP021SB472-11-13-180618ME

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 20.7  | 19.6  | 29.4  |

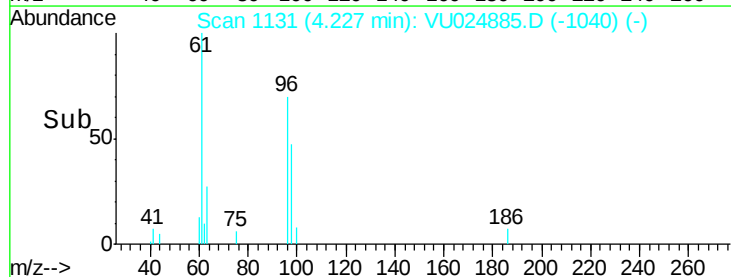
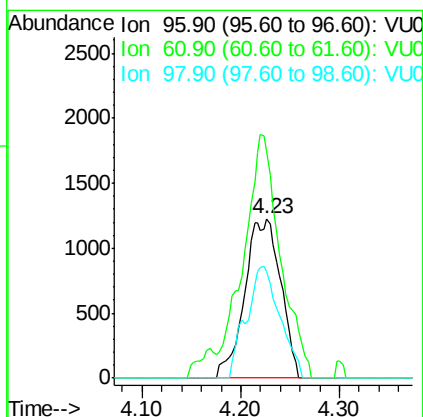
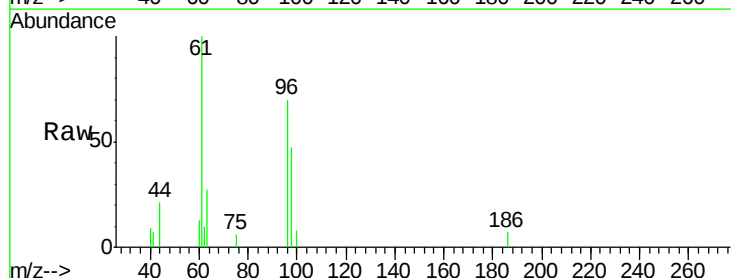
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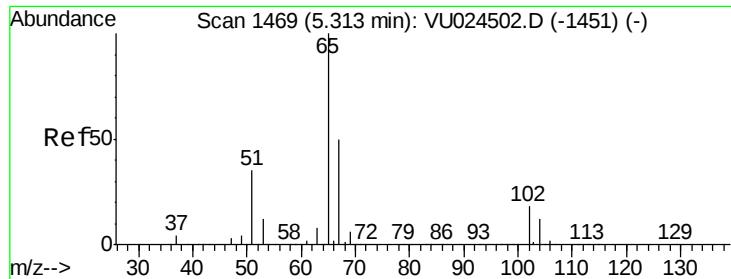
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#27  
cis-1,2-Dichloroethene  
Concen: 0.993 ug/l m  
RT: 4.23 min Scan# 1131  
Delta R.T. -0.01 min  
Lab File: VU024885.D  
Acq: 25 Jun 2018 19:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 156.7 | 0.0   | 306.6 |
| 98      | 66.2  | 0.0   | 128.8 |





#33

1,2-Dichloroethane-d4

Concen: 44.912 ug/l

RT: 5.31 min Scan# 1468

Delta R.T. -0.00 min

Lab File: VU024885.D

Acq: 25 Jun 2018 19:22

Instrument :

MSVOA\_U

ClientSampleId :

WP021SB472-11-13-180618ME

Tgt Ion: 65 Resp: 158876

Ion Ratio Lower Upper

65 100

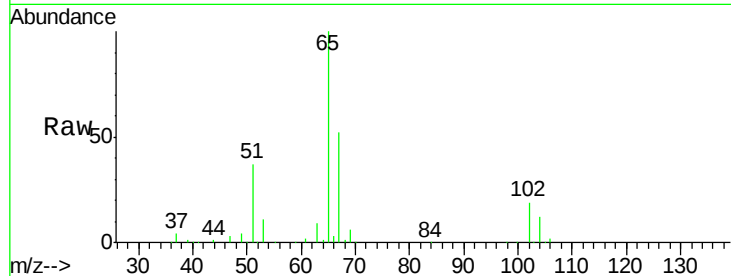
67 51.9 0.0 107.0

Manual Integrations

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Abundance Ion 64.90 (64.60 to 65.60): VU024502.D (-1451) (-)

Ion 66.90 (66.60 to 67.60): VU024502.D (-1451) (-)

5.31

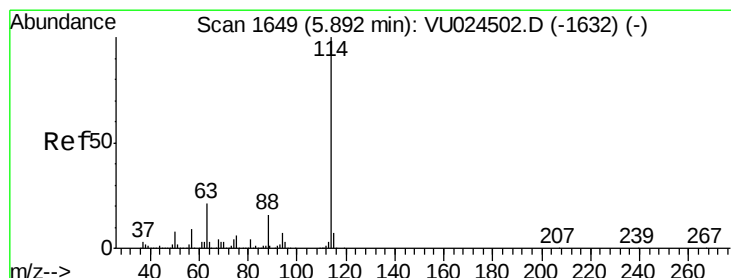
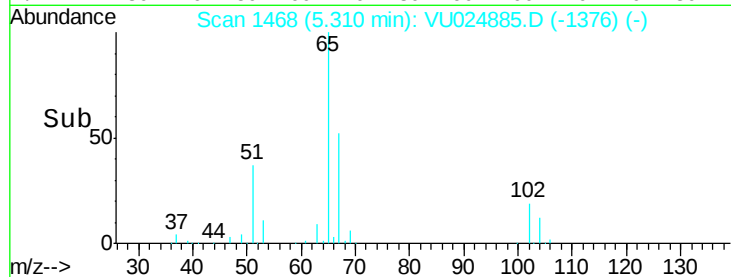
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.89 min Scan# 1647

Delta R.T. -0.01 min

Lab File: VU024885.D

Acq: 25 Jun 2018 19:22

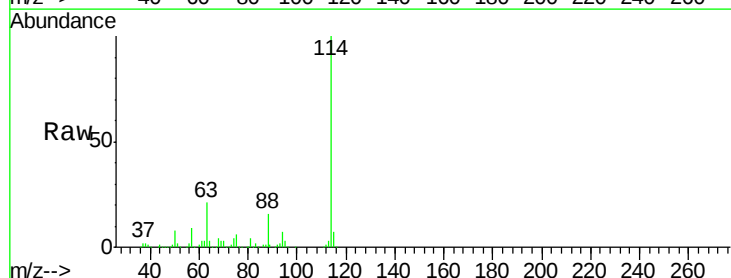
Tgt Ion: 114 Resp: 333759

Ion Ratio Lower Upper

114 100

63 20.8 0.0 45.4

88 16.1 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VU024502.D (-1632) (-)

Ion 63.00 (62.70 to 63.70): VU024502.D (-1632) (-)

Ion 87.90 (87.60 to 88.60): VU024502.D (-1632) (-)

5.89

200000

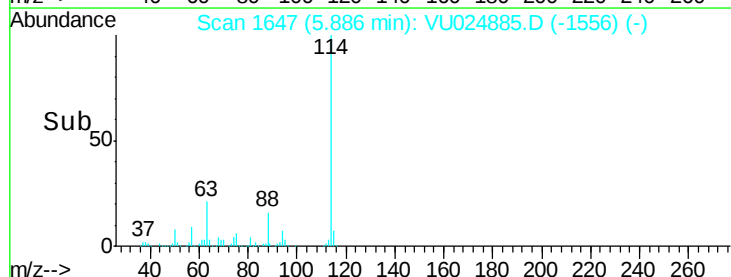
150000

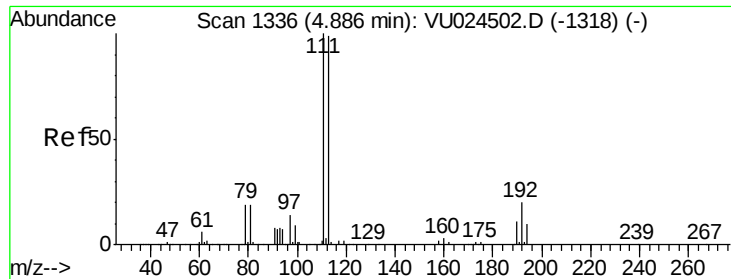
100000

50000

0

Time-->





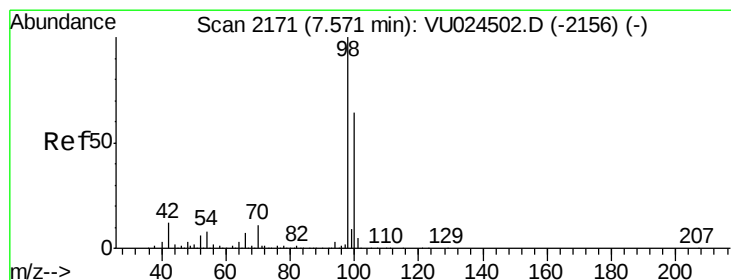
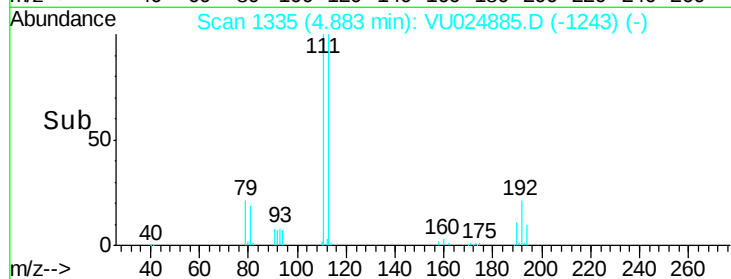
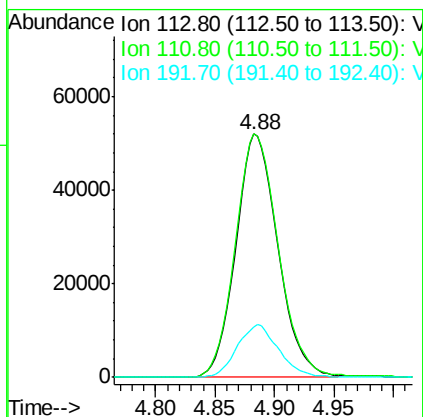
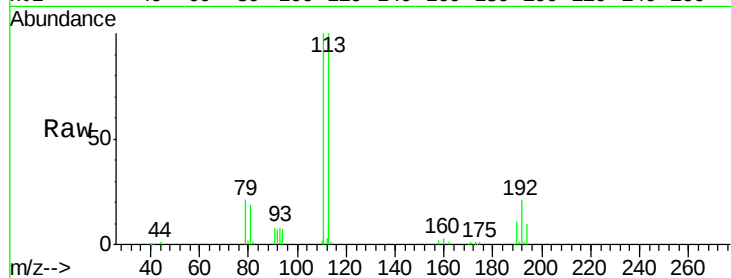
#35  
Dibromofluoromethane  
Concen: 45.852 ug/l  
RT: 4.88 min Scan# 1335  
Delta R.T. -0.00 min  
Lab File: VU024885.D  
Acq: 25 Jun 2018 19:22

Instrument :  
MSVOA\_U  
ClientSampleId :  
WP021SB472-11-13-180618ME

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 127007 |       |       |
| 111     | 102.4 | 82.2   | 123.4 |       |
| 192     | 21.3  | 16.2   | 24.4  |       |

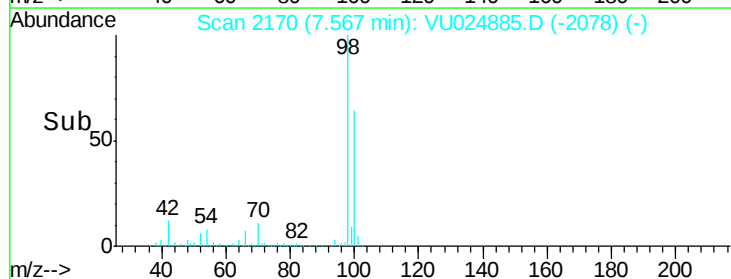
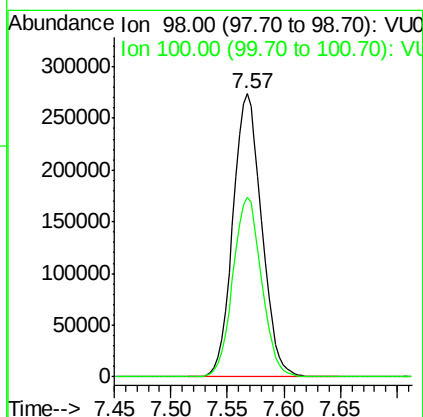
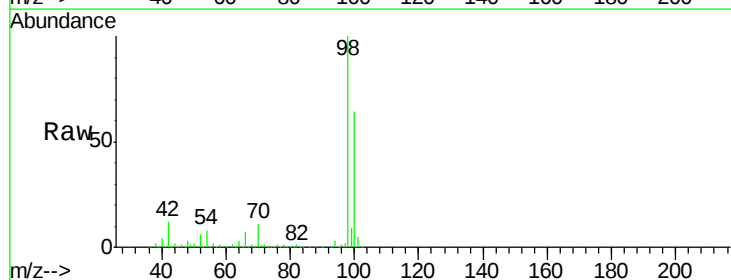
Manual Integrations  
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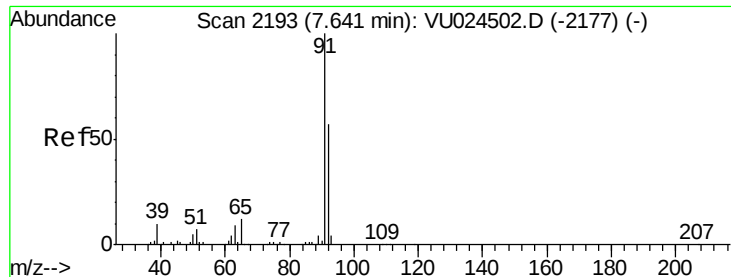
apatel  
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#50  
Toluene-d8  
Concen: 47.989 ug/l  
RT: 7.57 min Scan# 2170  
Delta R.T. -0.00 min  
Lab File: VU024885.D  
Acq: 25 Jun 2018 19:22

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 98      | 100   | 484863 |       |       |
| 100     | 63.2  | 51.1   | 76.7  |       |





#52

Toluene

Concen: 0.591 ug/l

RT: 7.64 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VU024885.D

Acq: 25 Jun 2018 19:22

Instrument :

MSVOA\_U

ClientSampleId :

WP021SB472-11-13-180618ME

Tgt Ion: 92 Resp: 4249

Ion Ratio Lower Upper

92 100

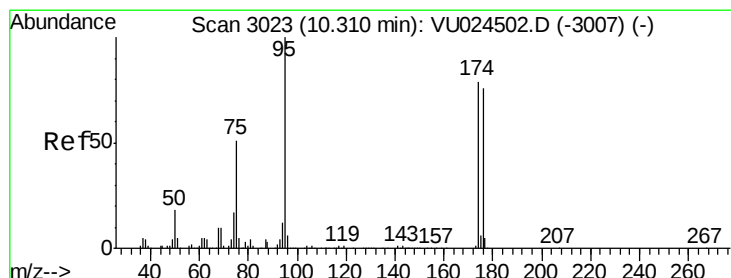
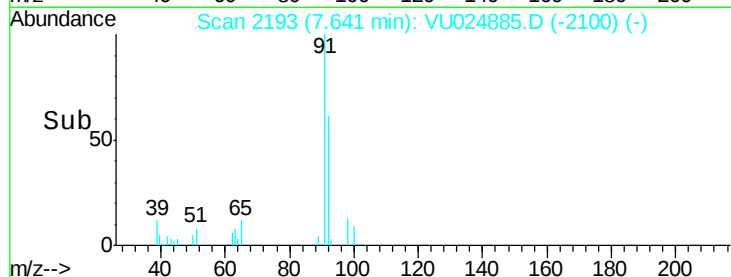
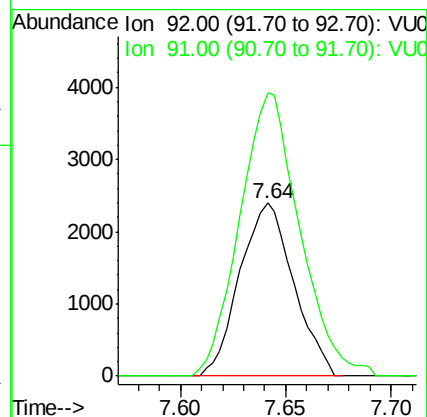
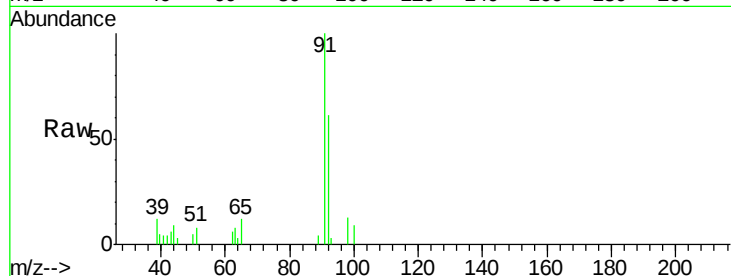
91 182.2 140.5 210.7

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 51.037 ug/l

RT: 10.32 min Scan# 3025

Delta R.T. 0.01 min

Lab File: VU024885.D

Acq: 25 Jun 2018 19:22

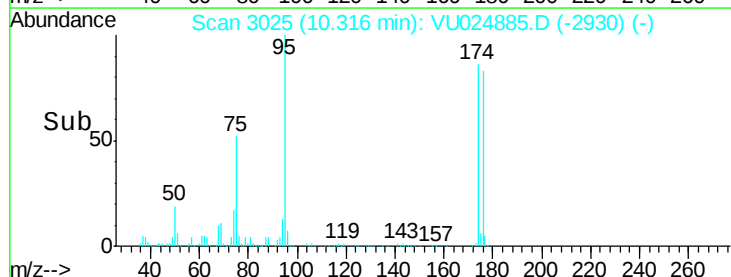
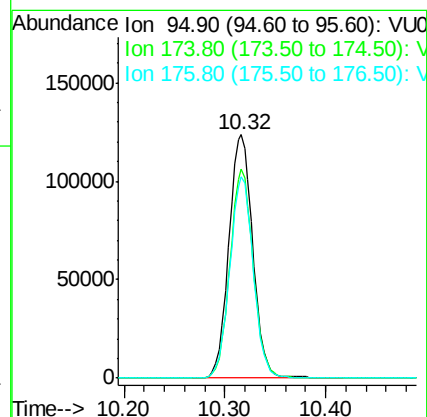
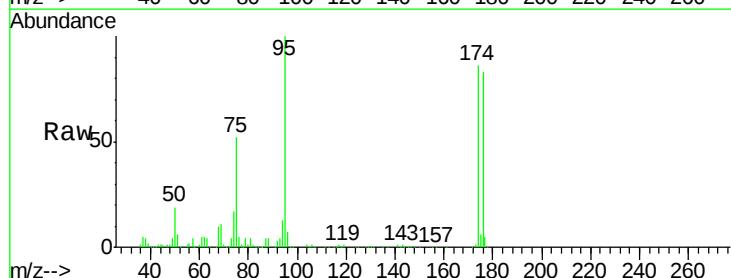
Tgt Ion: 95 Resp: 204739

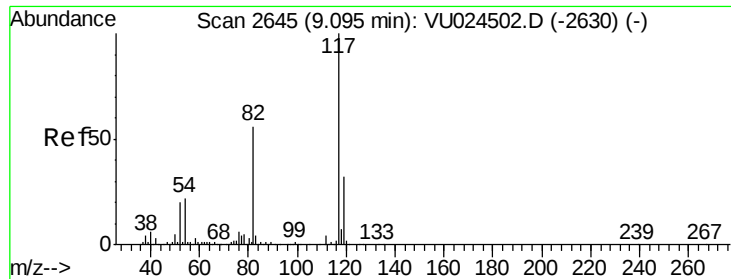
Ion Ratio Lower Upper

95 100

174 83.6 0.0 165.8

176 81.2 0.0 159.4





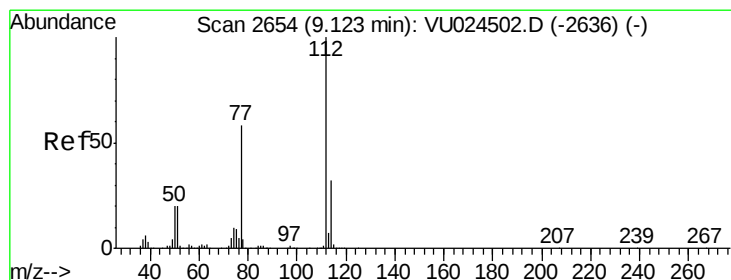
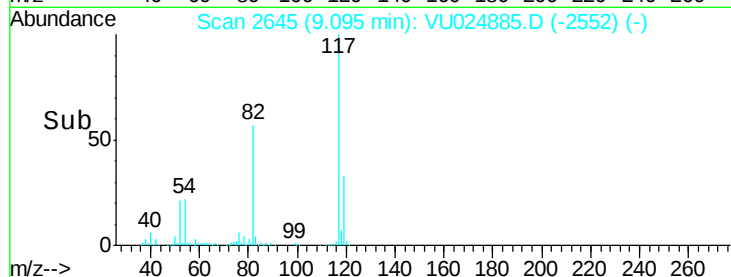
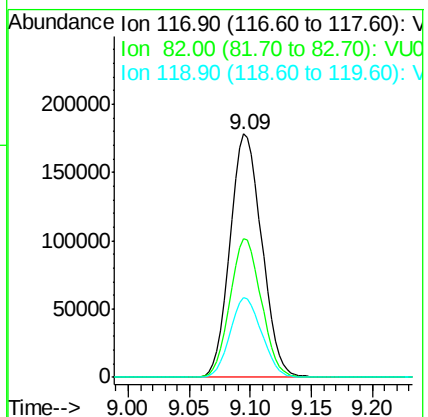
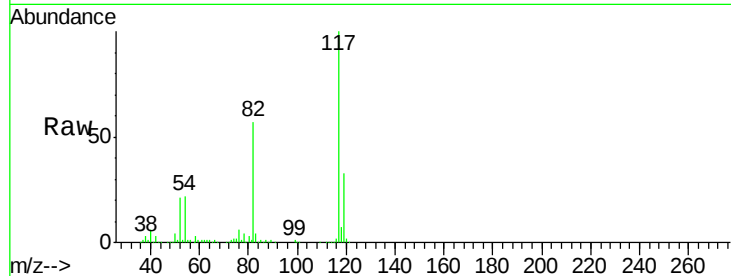
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2645  
Delta R.T. 0.00 min  
Lab File: VU024885.D  
Acq: 25 Jun 2018 19:22

Instrument :  
MSVOA\_U  
ClientSampleId :  
WP021SB472-11-13-180618ME

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 323712 |       |       |
| 82      | 57.0  | 44.3   | 66.5  |       |
| 119     | 32.8  | 25.4   | 38.2  |       |

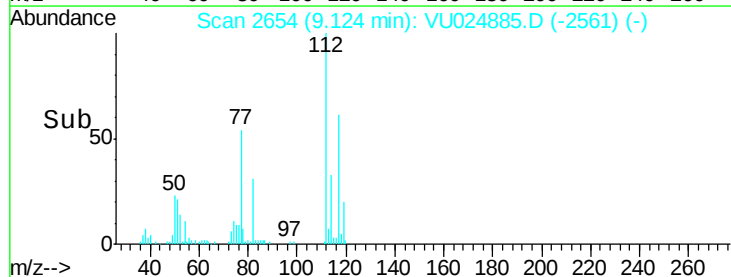
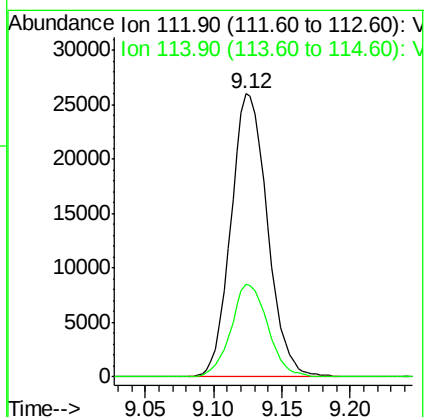
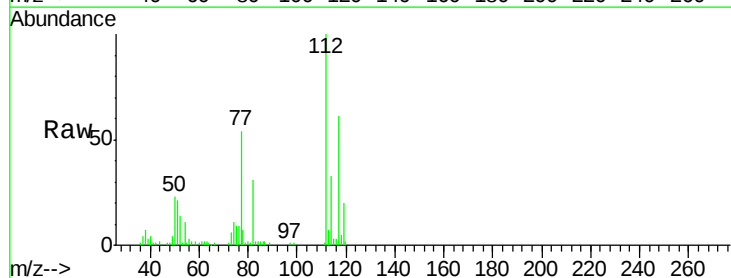
Manual Integrations  
APPROVED

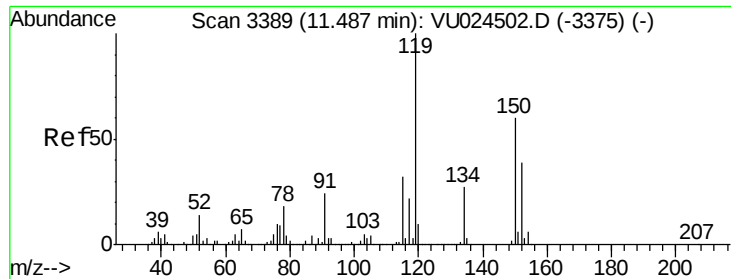
apatel  
6/27/2018 11:20:02 AM



#65  
Chlorobenzene  
Concen: 5.845 ug/l  
RT: 9.12 min Scan# 2654  
Delta R.T. 0.00 min  
Lab File: VU024885.D  
Acq: 25 Jun 2018 19:22

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 112     | 100   | 48334 |       |       |
| 114     | 32.8  | 25.6  | 38.4  |       |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU024885.D

Acq: 25 Jun 2018 19:22

Instrument :

MSVOA\_U

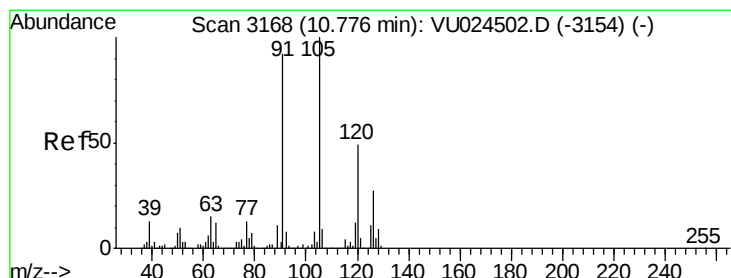
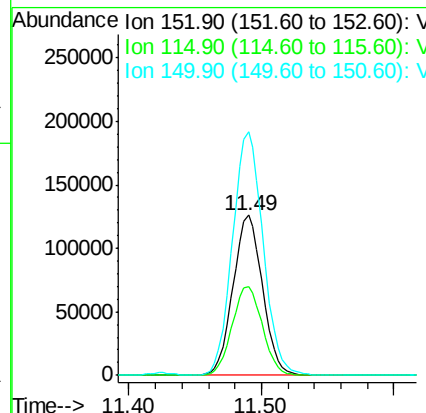
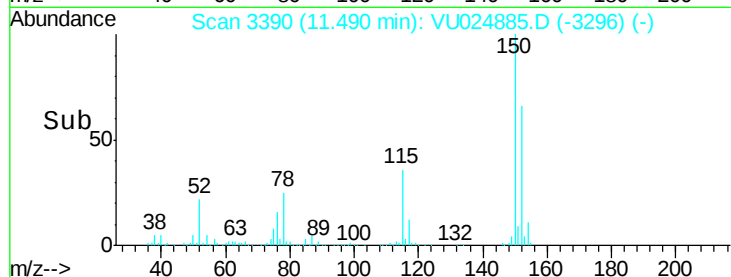
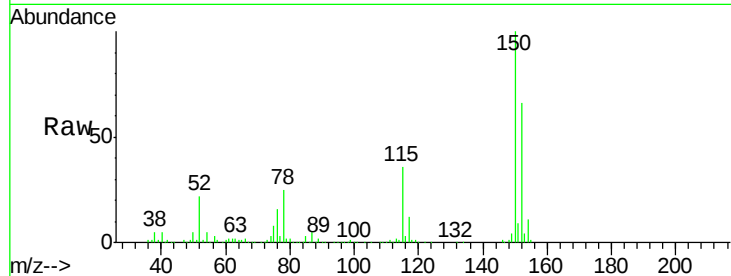
ClientSampleId :

WP021SB472-11-13-180618ME

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 152   | Resp: | 194714 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 57.0  | 43.0  | 129.0  |
| 150       | 157.5 | 0.0   | 354.0  |

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#80

1,3,5-Trimethylbenzene

Concen: 0.755 ug/l

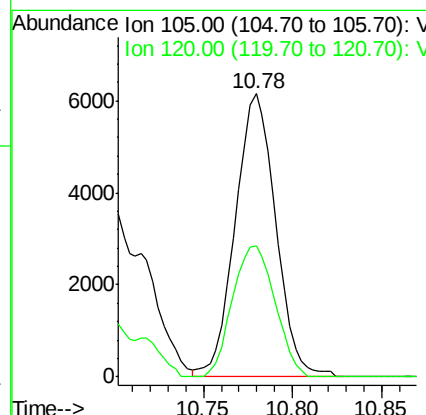
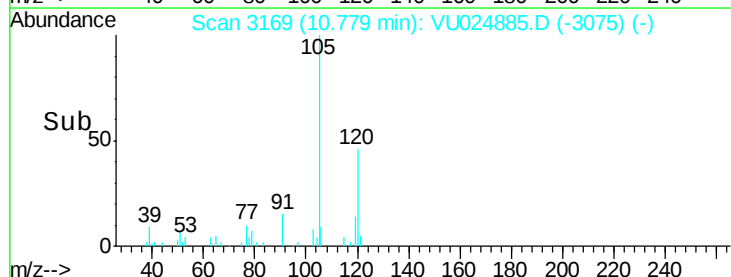
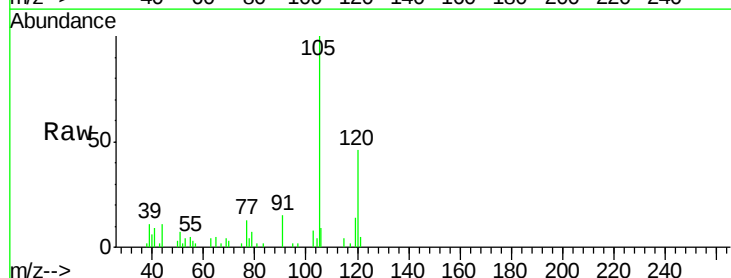
RT: 10.78 min Scan# 3169

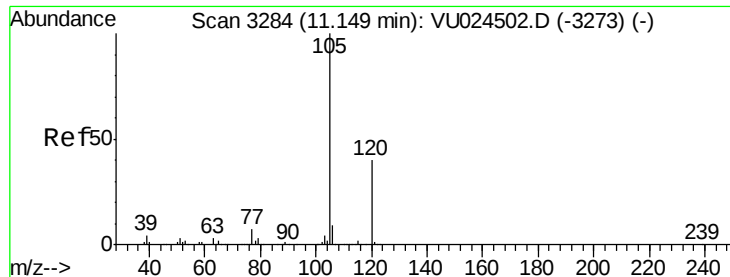
Delta R.T. 0.00 min

Lab File: VU024885.D

Acq: 25 Jun 2018 19:22

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 105   | Resp: | 9777 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 120       | 48.4  | 24.1  | 72.2 |





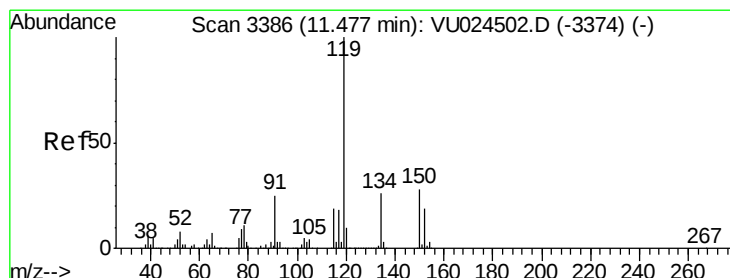
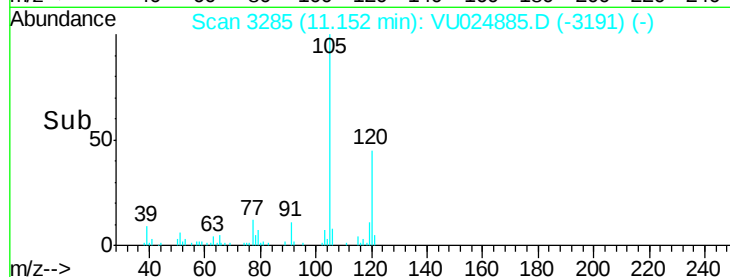
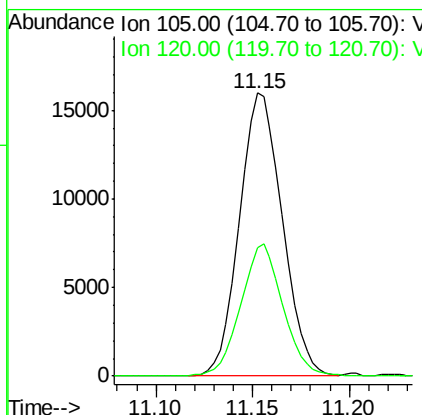
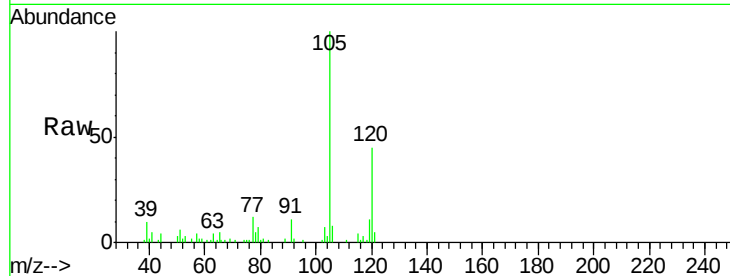
#84  
 1,2,4-Trimethylbenzene  
 Concen: 1.865 ug/l  
 RT: 11.15 min Scan# 3285  
 Delta R.T. 0.00 min  
 Lab File: VU024885.D  
 Acq: 25 Jun 2018 19:22

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 WP021SB472-11-13-180618ME

Tgt Ion:105 Resp: 24621  
 Ion Ratio Lower Upper  
 105 100  
 120 46.0 22.6 67.8

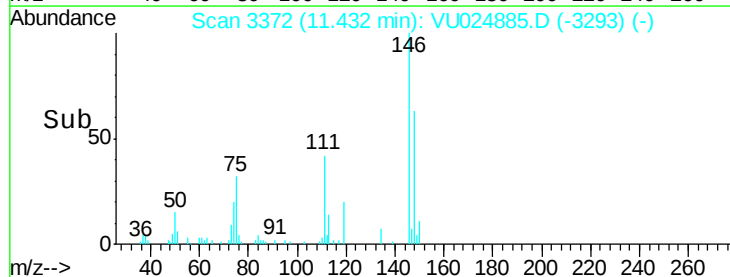
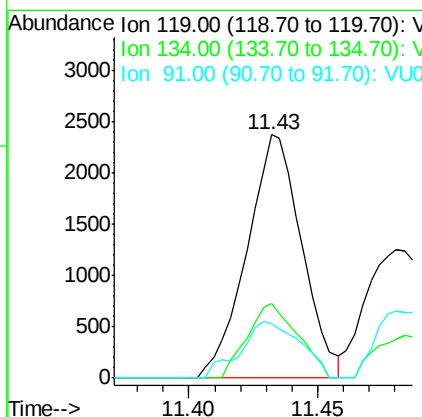
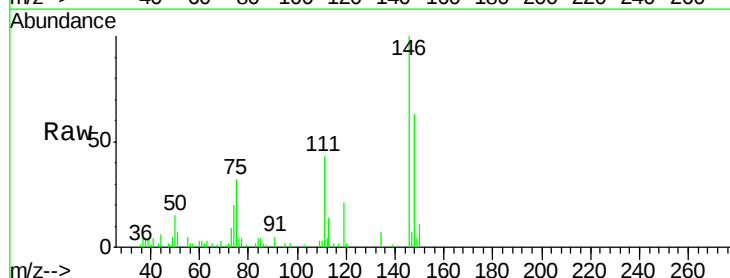
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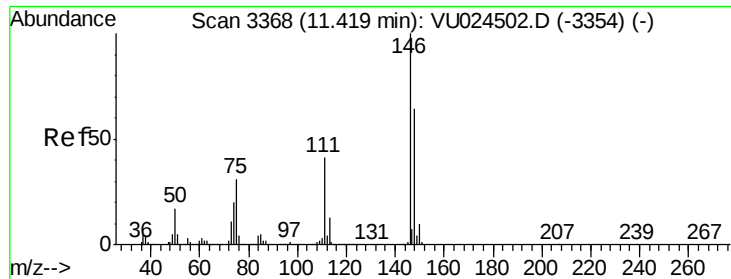
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#86  
 p-Isopropyltoluene  
 Concen: 0.253 ug/l  
 RT: 11.43 min Scan# 3372  
 Delta R.T. -0.04 min  
 Lab File: VU024885.D  
 Acq: 25 Jun 2018 19:22

Tgt Ion:119 Resp: 3529  
 Ion Ratio Lower Upper  
 119 100  
 134 28.2 12.9 38.6  
 91 25.2 12.0 36.1





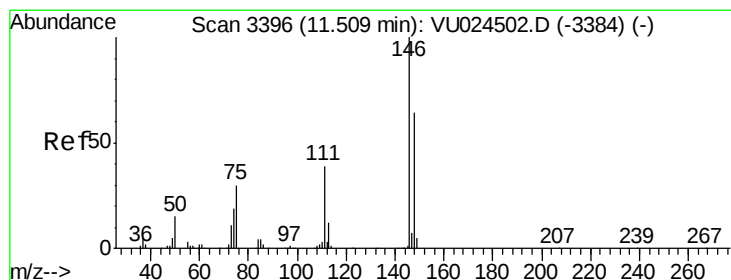
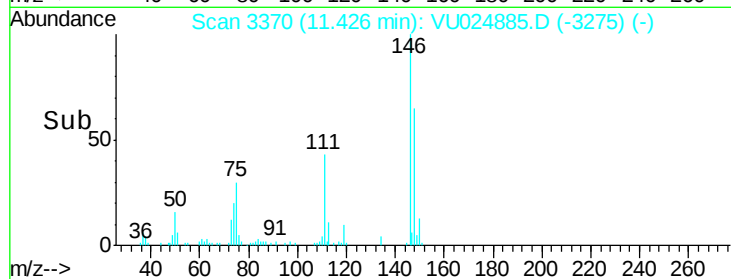
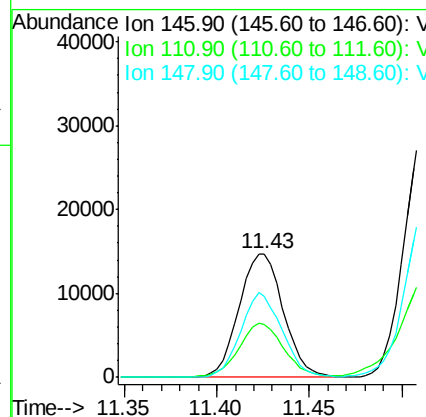
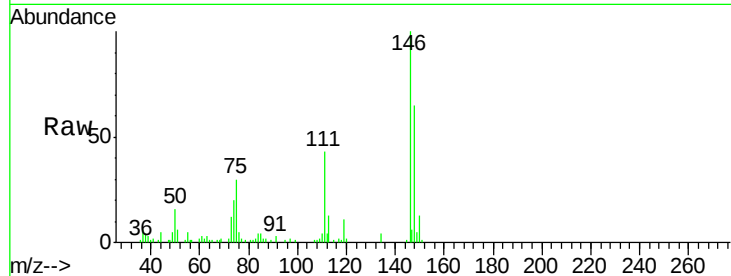
#87  
 1,3-Dichlorobenzene  
 Concen: 3.485 ug/l  
 RT: 11.43 min Scan# 3370  
 Delta R.T. 0.01 min  
 Lab File: VU024885.D  
 Acq: 25 Jun 2018 19:22

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 WP021SB472-11-13-180618ME

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 44.7  | 20.0  | 60.0  |
| 148     | 63.9  | 32.1  | 96.5  |

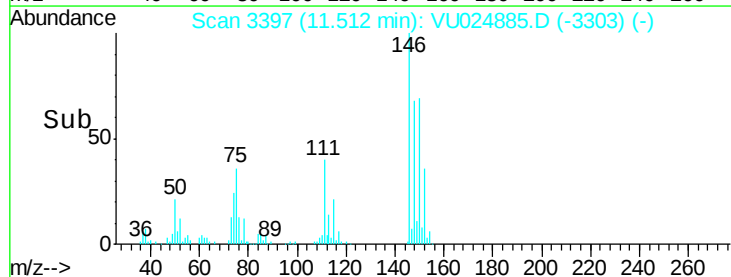
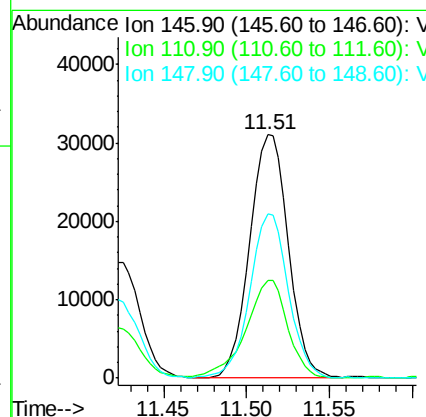
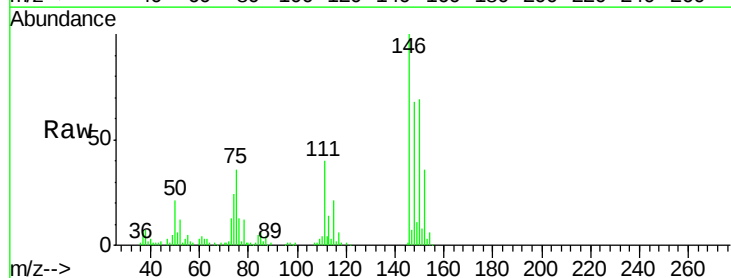
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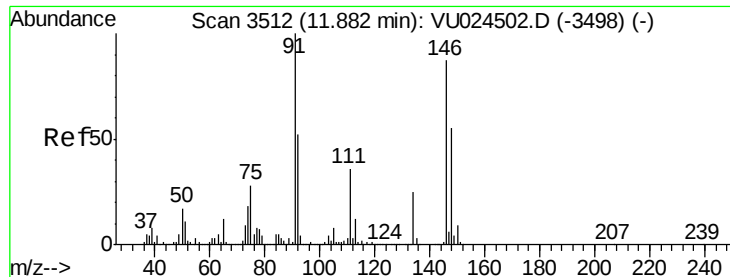
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#88  
 1,4-Dichlorobenzene  
 Concen: 7.165 ug/l  
 RT: 11.51 min Scan# 3397  
 Delta R.T. 0.00 min  
 Lab File: VU024885.D  
 Acq: 25 Jun 2018 19:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 43.6  | 19.5  | 58.5  |
| 148     | 67.3  | 32.4  | 97.0  |





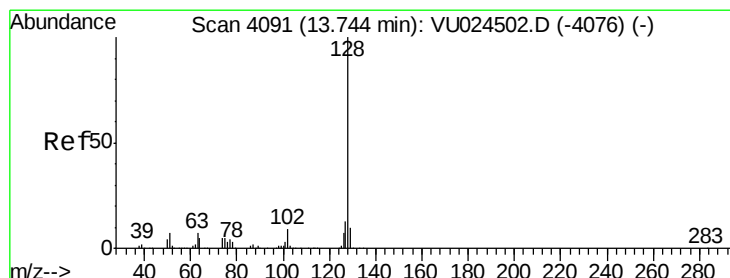
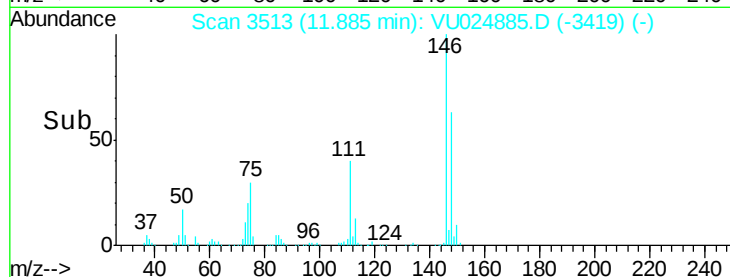
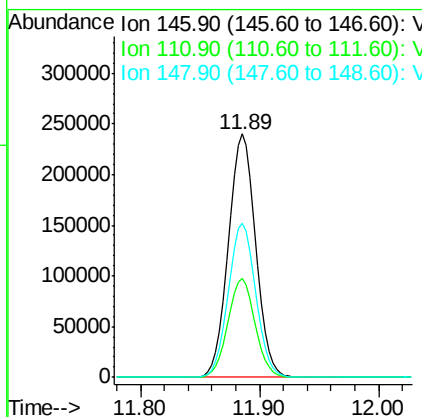
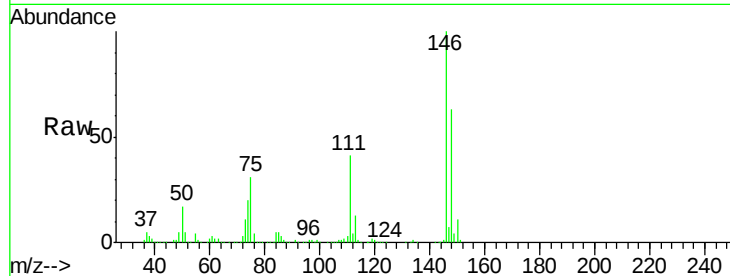
#91  
1,2-Dichlorobenzene  
Concen: 54.446 ug/l  
RT: 11.89 min Scan# 3513  
Delta R.T. 0.00 min  
Lab File: VU024885.D  
Acq: 25 Jun 2018 19:22

Instrument :  
MSVOA\_U  
ClientSampleId :  
WP021SB472-11-13-180618ME

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 381312 |       |       |
| 111     | 40.6  | 20.5   | 61.6  |       |
| 148     | 63.6  | 31.9   | 95.7  |       |

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#95  
Naphthalene  
Concen: 1.918 ug/l  
RT: 13.75 min Scan# 4093  
Delta R.T. 0.01 min  
Lab File: VU024885.D  
Acq: 25 Jun 2018 19:22

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 128     | 100   | 17984 |       |       |
| 127     | 12.5  | 10.6  | 16.0  |       |
| 129     | 11.7  | 8.6   | 12.8  |       |

