

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062518\  
 Data File : VU024872.D  
 Acq On : 25 Jun 2018 14:06  
 Operator : MD/SY  
 Sample : J3662-01DL 5X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 WP021RW246-180618DL

Manual Integrations  
 APPROVED

apatel  
 6/27/2018 11:19:00 AM

Quant Time: Jun 26 07:13:51 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      | 4.99  | 168  | 210093   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 319019   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 303139   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.49 | 152  | 160082   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.31  | 65   | 155644   | 45.38 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.76% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 124228   | 46.92 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.84% |          |
| 50) Toluene-d8              | 7.57  | 98   | 466008   | 48.25 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.50% |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 173672   | 45.29 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 90.58% |          |

| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 4) Vinyl Chloride          | 1.40  | 62   | 84998    | 30.68 | ug/l  | 97     |
| 27) cis-1,2-Dichloroethene | 4.23  | 96   | 29500    | 9.74  | ug/l  | 84     |
| 40) Benzene                | 5.40  | 78   | 38434    | 3.60  | ug/l  | 100    |
| 65) Chlorobenzene          | 9.12  | 112  | 424462   | 54.81 | ug/l  | 100    |
| 83) tert-Butylbenzene      | 11.10 | 119  | 5917     | 0.58  | ug/l  | 87     |
| 85) sec-Butylbenzene       | 11.33 | 105  | 4336     | 0.34  | ug/l  | 94     |
| 87) 1,3-Dichlorobenzene    | 11.43 | 146  | 1952     | 0.34  | ug/l  | 89     |
| 88) 1,4-Dichlorobenzene    | 11.51 | 146  | 6060m    | 1.05  | ug/l  |        |
| 91) 1,2-Dichlorobenzene    | 11.88 | 146  | 11173    | 1.94  | ug/l  | 97     |

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

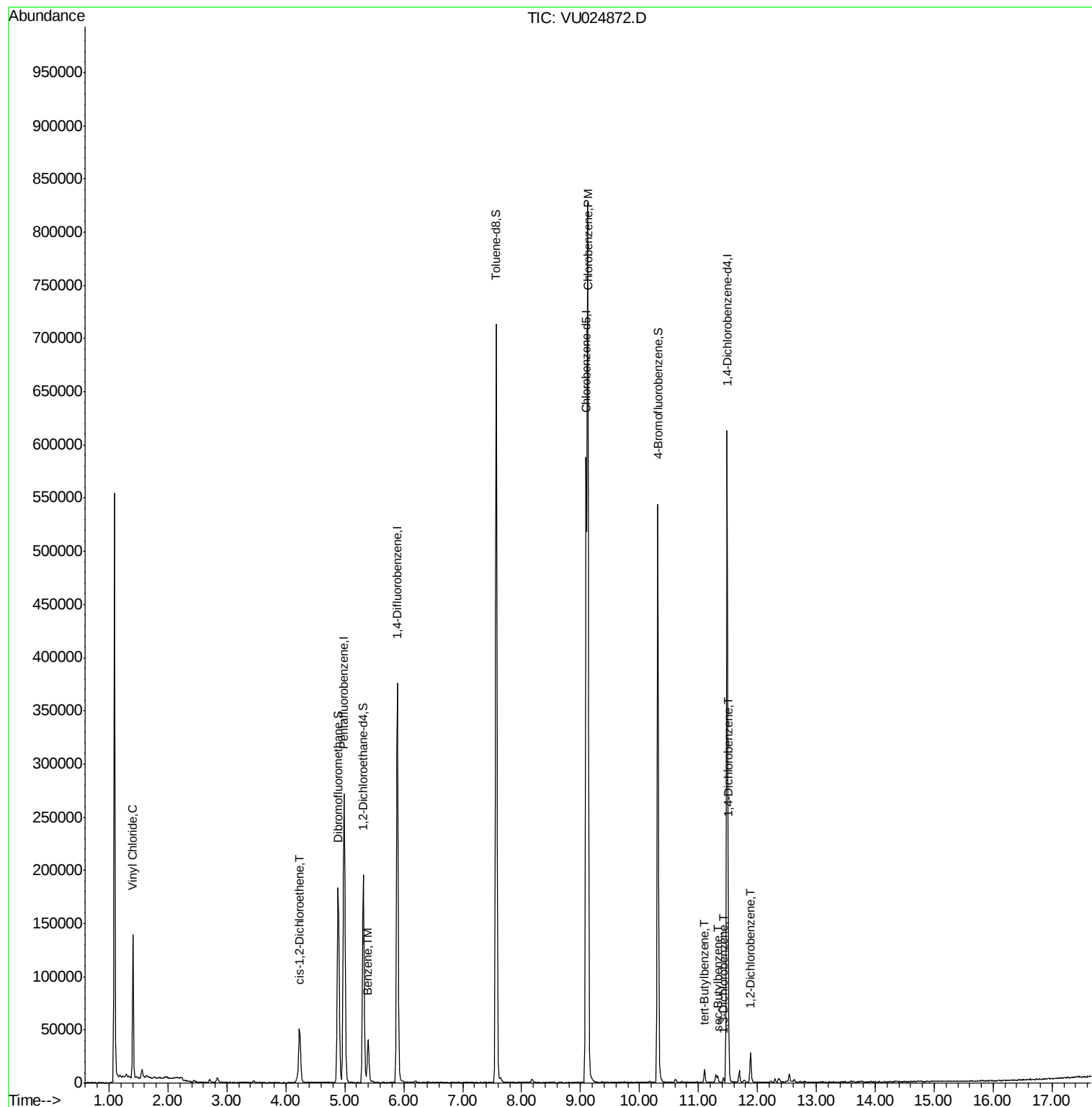
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU062518\  
Data File : VU024872.D  
Acq On : 25 Jun 2018 14:06  
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Quant Time: Jun 26 07:13:51 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U061318W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 13 13:55:26 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU024872.D

Acq: 25 Jun 2018 14:06

Instrument :

MSVOA\_U

ClientSampleId :

WP021RW246-180618DL

Tot Ion:168 Resp: 210093

Ion Ratio Lower Upper

168 100

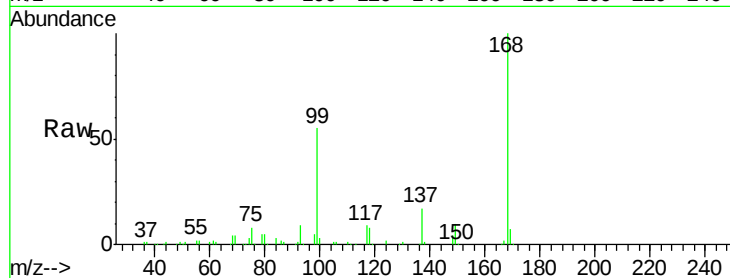
99 55.0 43.2 64.8

Manual Integrations

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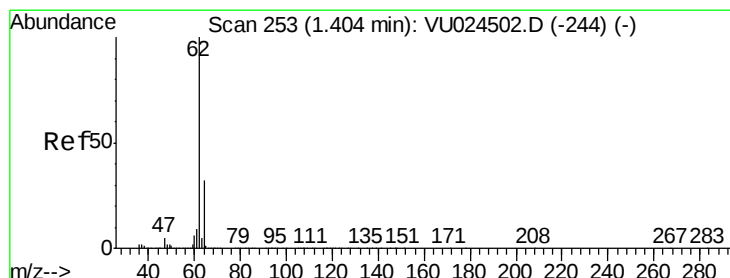
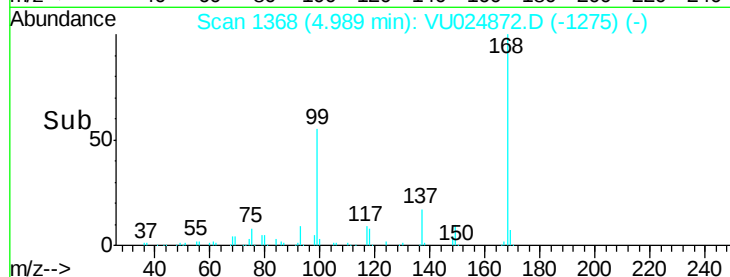
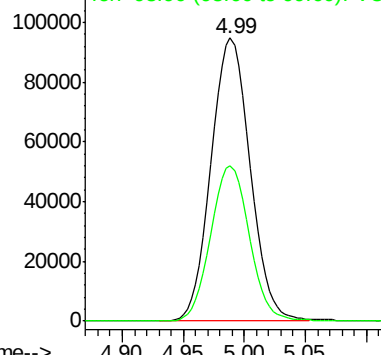
apatel

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#4

Vinyl Chloride

Concen: 30.68 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU024872.D

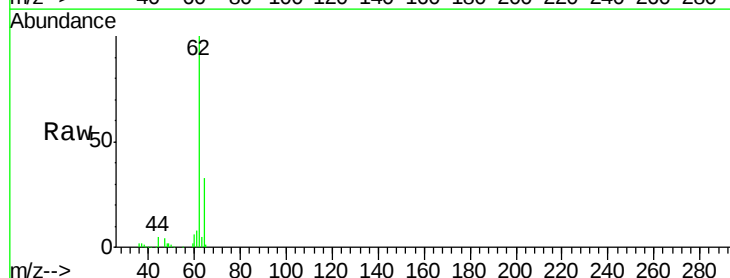
Acq: 25 Jun 2018 14:06

Tgt Ion: 62 Resp: 84998

Ion Ratio Lower Upper

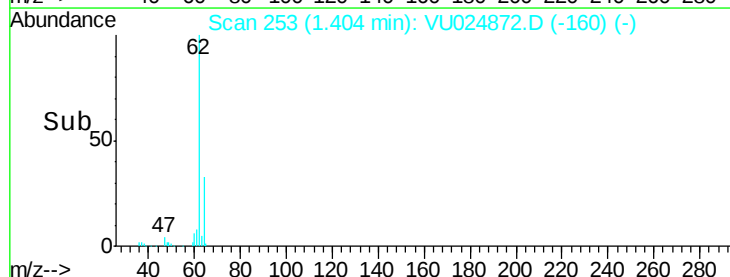
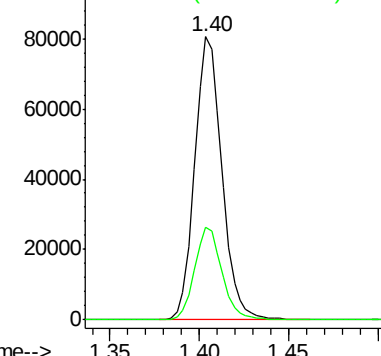
62 100

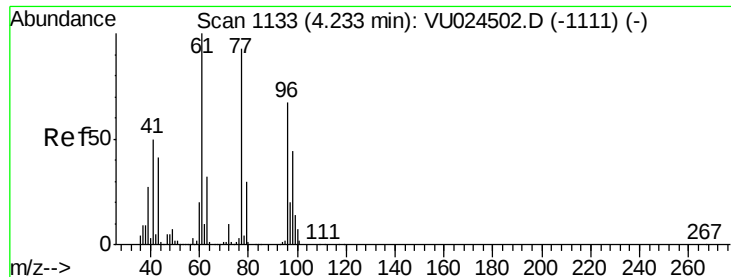
64 32.7 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0





#27

cis-1,2-Dichloroethene

Concen: 9.74 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU024872.D

Acq: 25 Jun 2018 14:06

Instrument :

MSVOA\_U

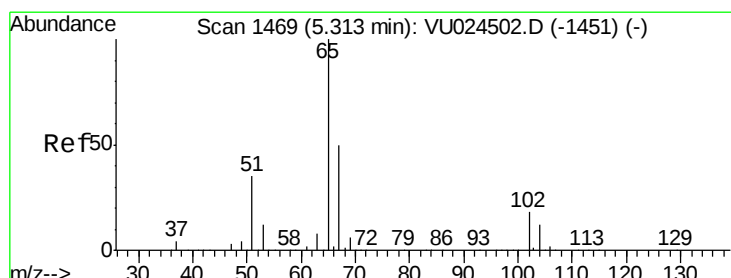
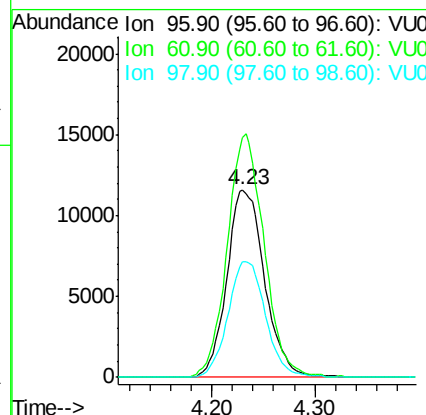
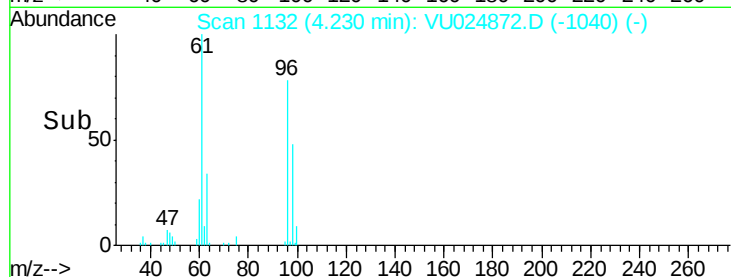
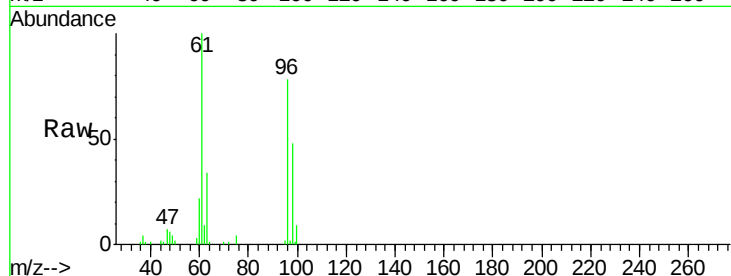
ClientSampleId :

WP021RW246-180618DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 96    | Resp: | 29500 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 126.6 | 0.0   | 306.6 |
| 98       | 61.4  | 0.0   | 128.8 |

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#33

1,2-Dichloroethane-d4

Concen: 45.38 ug/l

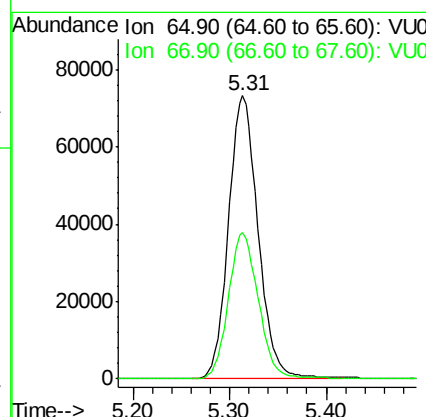
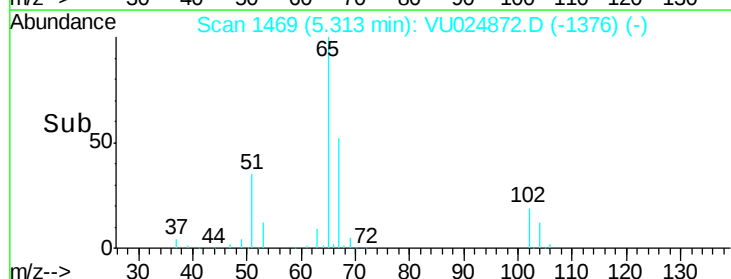
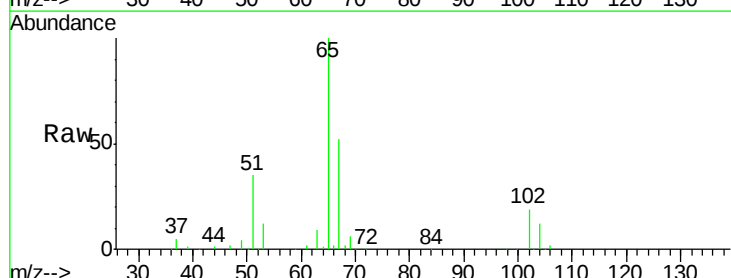
RT: 5.31 min Scan# 1469

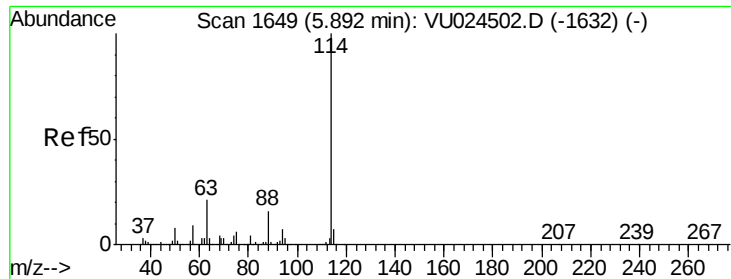
Delta R.T. 0.00 min

Lab File: VU024872.D

Acq: 25 Jun 2018 14:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 65    | Resp: | 155644 |
| Ion      | Ratio | Lower | Upper  |
| 65       | 100   |       |        |
| 67       | 51.8  | 0.0   | 107.0  |





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU024872.D

Acq: 25 Jun 2018 14:06

Instrument :

MSVOA\_U

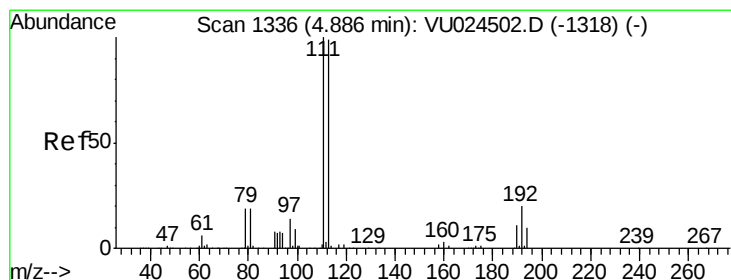
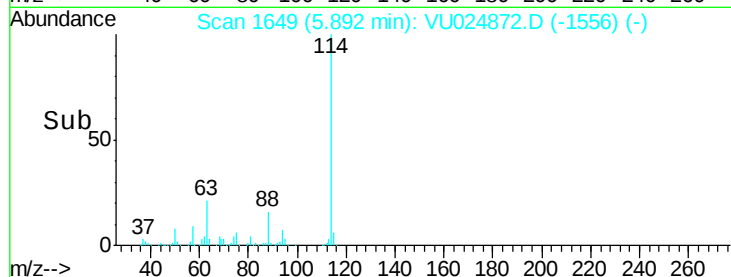
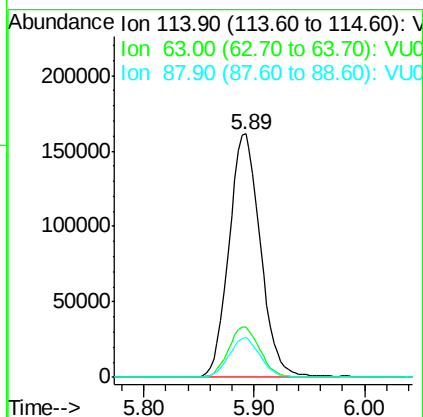
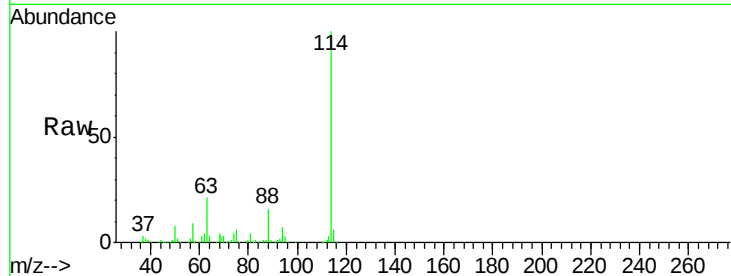
ClientSampleId :

WP021RW246-180618DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 319019 |       |       |
| 63      | 20.5  | 0.0    | 45.4  |       |
| 88      | 16.4  | 0.0    | 31.0  |       |

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#35

Dibromofluoromethane

Concen: 46.92 ug/l

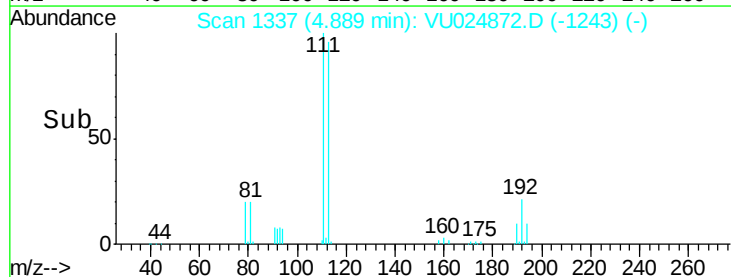
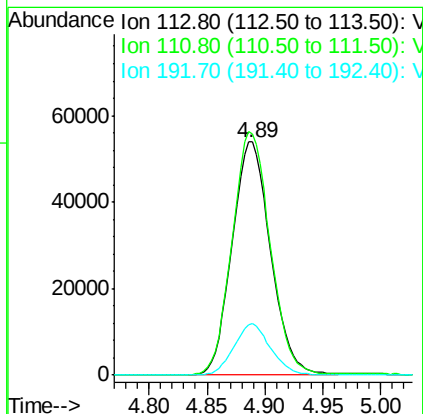
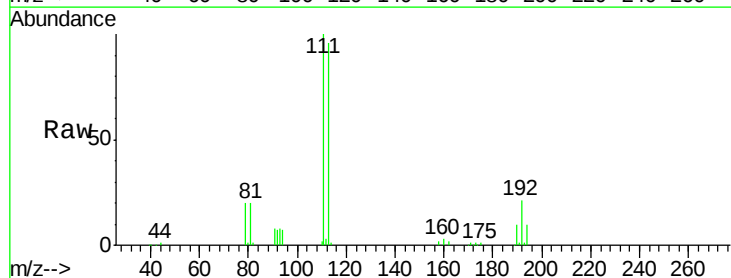
RT: 4.89 min Scan# 1337

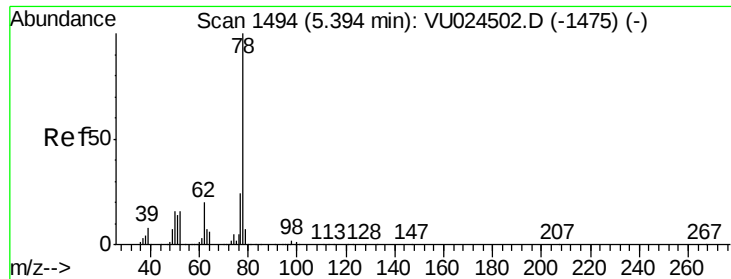
Delta R.T. 0.00 min

Lab File: VU024872.D

Acq: 25 Jun 2018 14:06

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 124228 |       |       |
| 111     | 103.5 | 82.2   | 123.4 |       |
| 192     | 20.9  | 16.2   | 24.4  |       |





#40

Benzene

Concen: 3.60 ug/l

RT: 5.40 min Scan# 1495

Delta R.T. 0.00 min

Lab File: VU024872.D

Acq: 25 Jun 2018 14:06

Instrument :

MSVOA\_U

ClientSampleId :

WP021RW246-180618DL

Tot Ion: 78 Resp: 38434

Ion Ratio Lower Upper

78 100

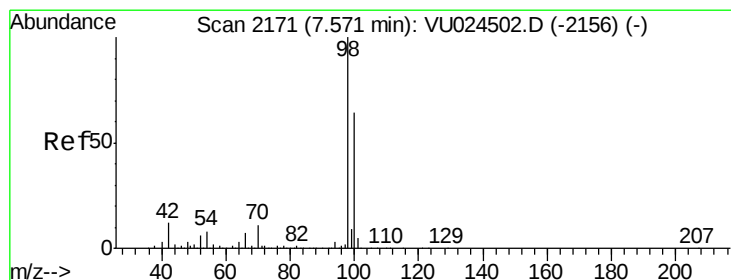
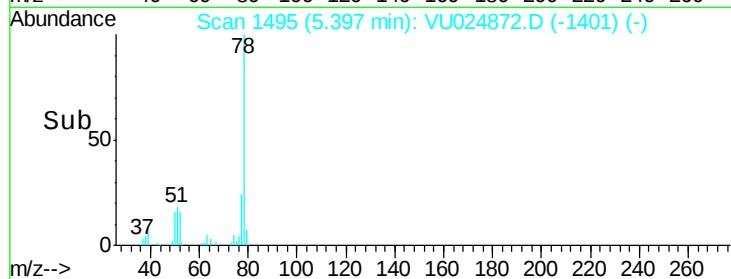
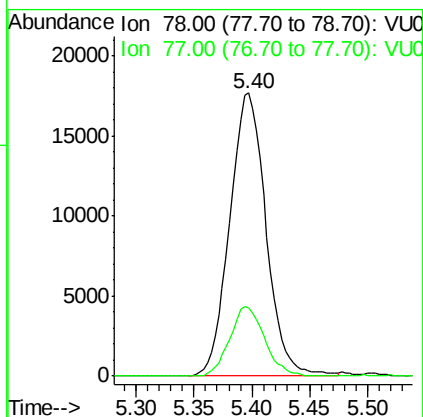
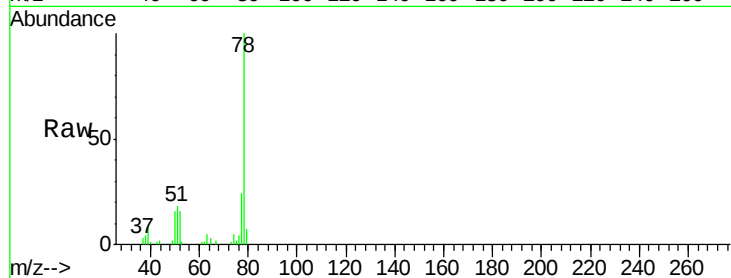
77 24.1 19.2 28.8

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#50

Toluene-d8

Concen: 48.25 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU024872.D

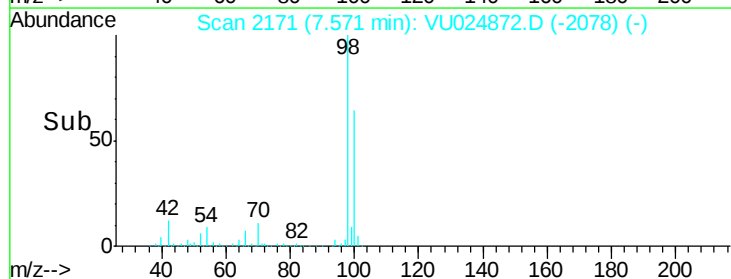
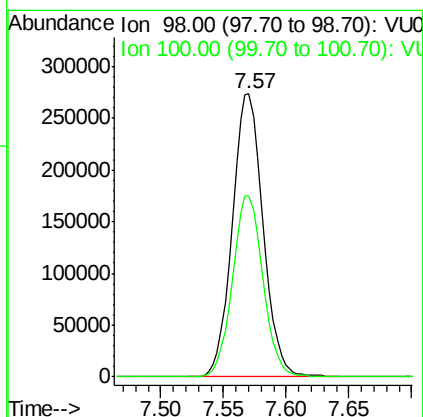
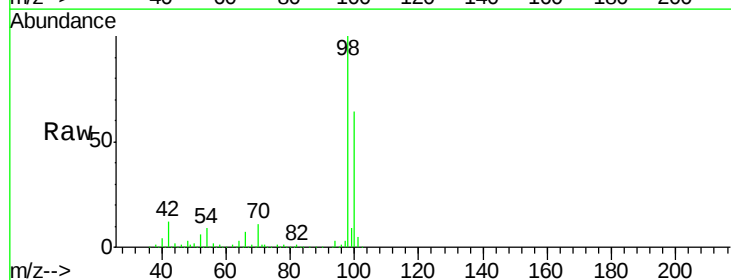
Acq: 25 Jun 2018 14:06

Tgt Ion: 98 Resp: 466008

Ion Ratio Lower Upper

98 100

100 63.4 51.1 76.7





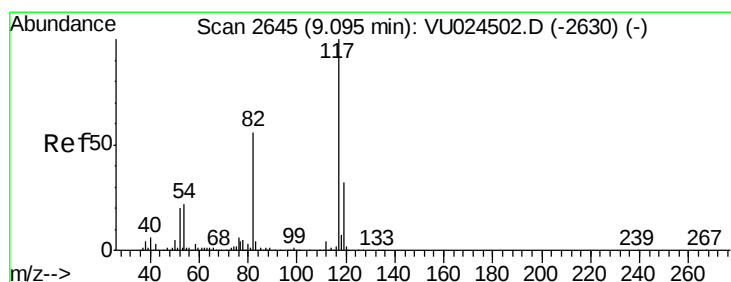
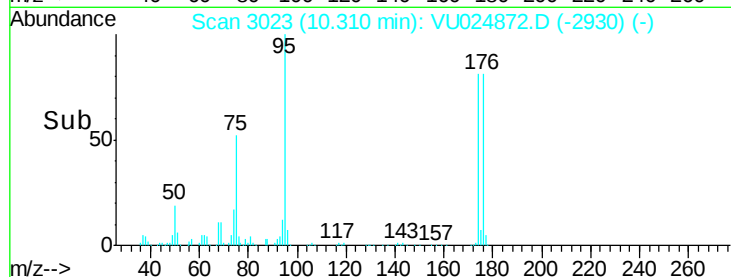
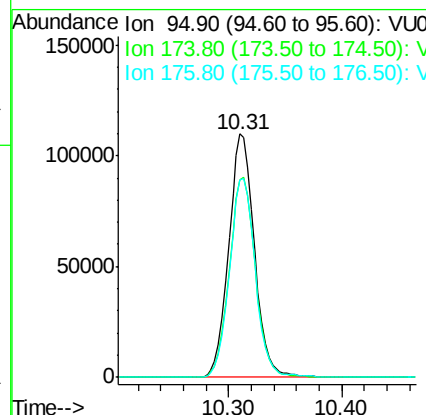
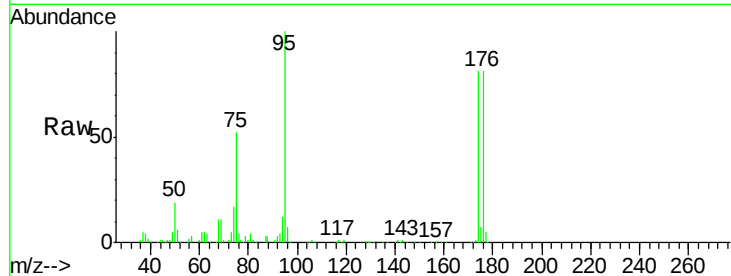
#62  
4-Bromofluorobenzene  
Concen: 45.29 ug/l  
RT: 10.31 min Scan# 3023  
Delta R.T. 0.00 min  
Lab File: VU024872.D  
Acq: 25 Jun 2018 14:06

Instrument :  
MSVOA\_U  
ClientSampleId :  
WP021RW246-180618DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 173672 |       |       |
| 174     | 83.2  | 0.0    | 165.8 |       |
| 176     | 82.2  | 0.0    | 159.4 |       |

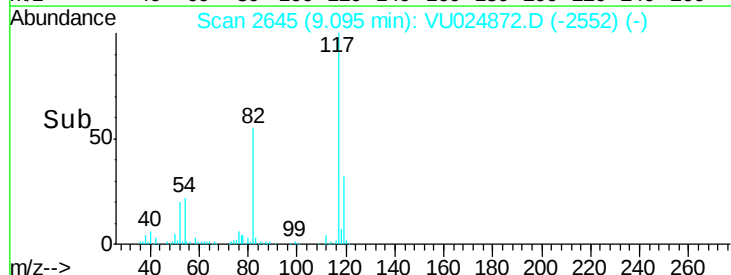
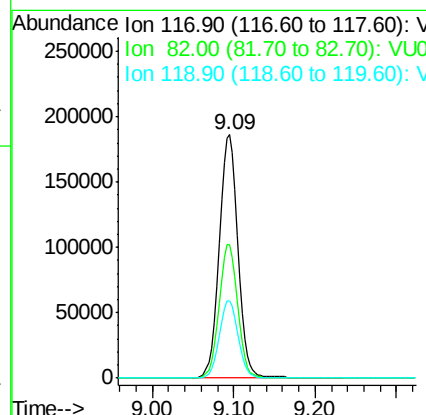
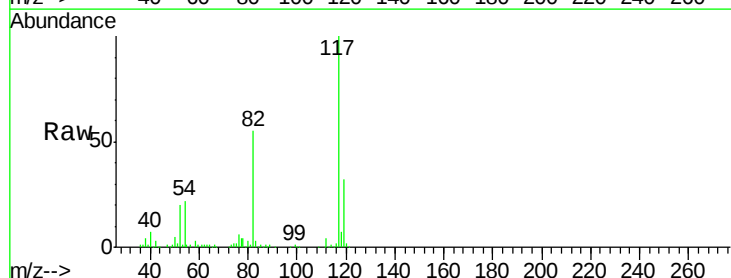
Manual Integrations  
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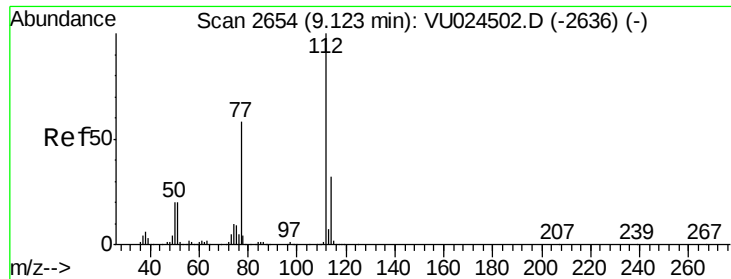
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#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 9.09 min Scan# 2645  
Delta R.T. 0.00 min  
Lab File: VU024872.D  
Acq: 25 Jun 2018 14:06

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 303139 |       |       |
| 82      | 54.6  | 44.3   | 66.5  |       |
| 119     | 32.0  | 25.4   | 38.2  |       |





#65

Chlorobenzene

Concen: 54.81 ug/l

RT: 9.12 min Scan# 2654

Delta R.T. 0.00 min

Lab File: VU024872.D

Acq: 25 Jun 2018 14:06

Instrument :

MSVOA\_U

ClientSampleId :

WP021RW246-180618DL

Tot Ion:112 Resp: 424462

Ion Ratio Lower Upper

112 100

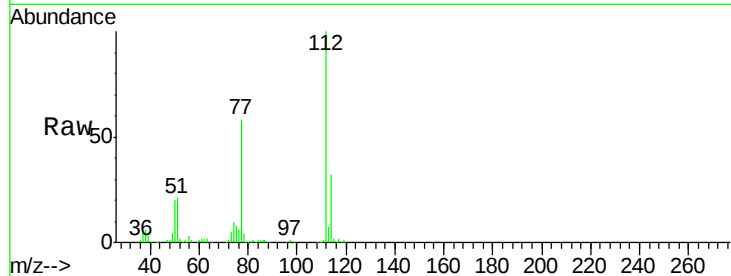
114 32.0 25.6 38.4

Manual Integrations

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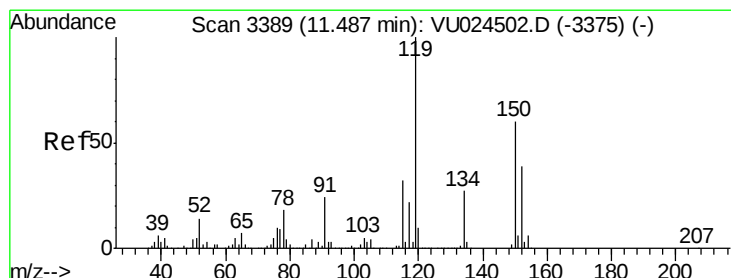
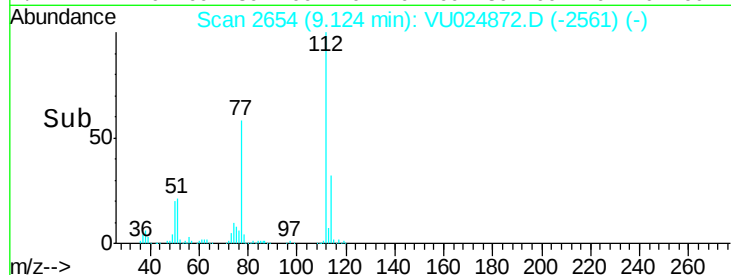
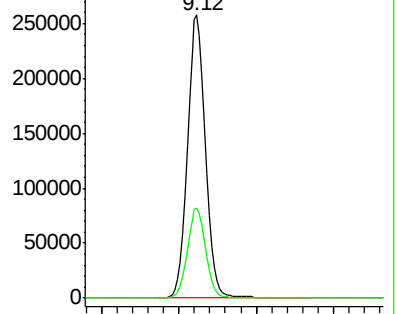
apatel

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024872.D

Acq: 25 Jun 2018 14:06

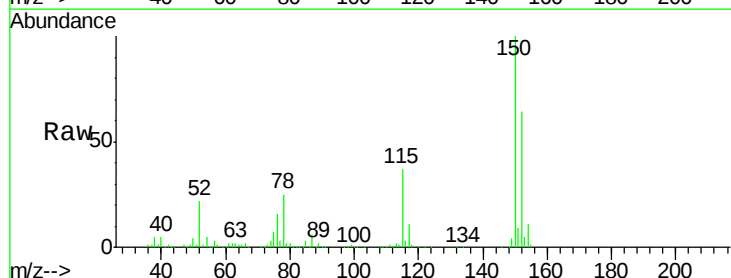
Tgt Ion:152 Resp: 160082

Ion Ratio Lower Upper

152 100

115 57.3 43.0 129.0

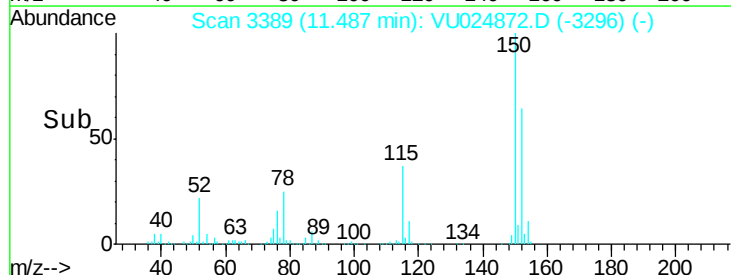
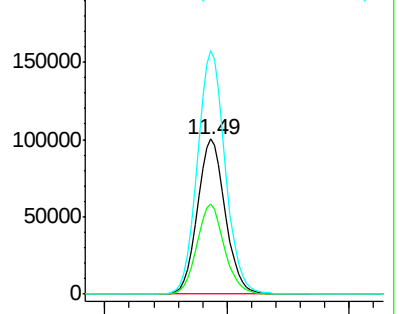
150 157.0 0.0 354.0

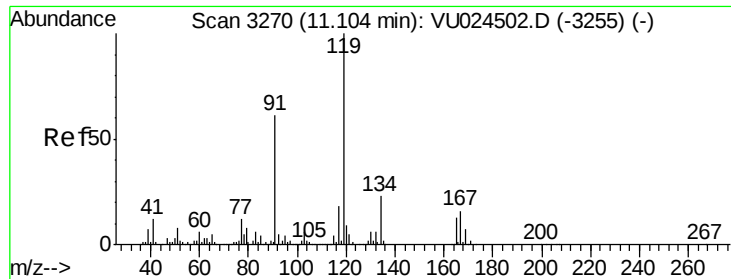


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





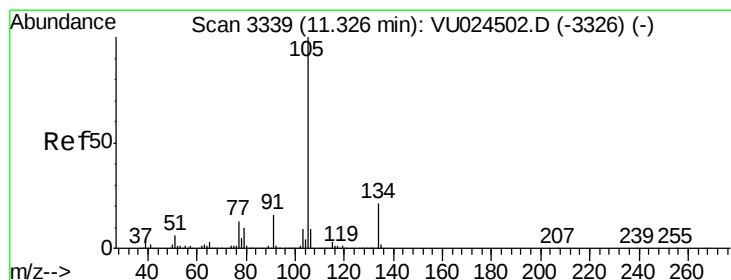
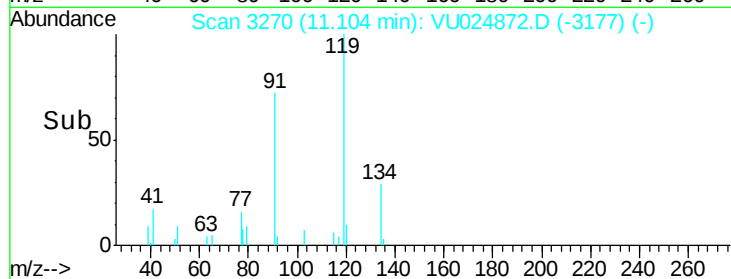
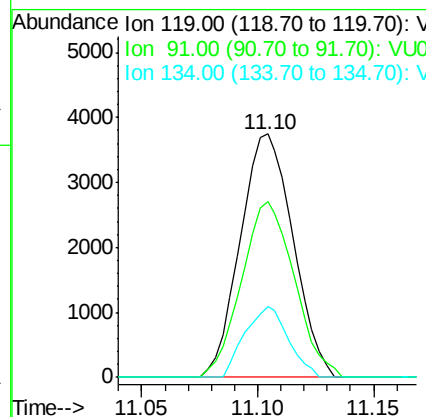
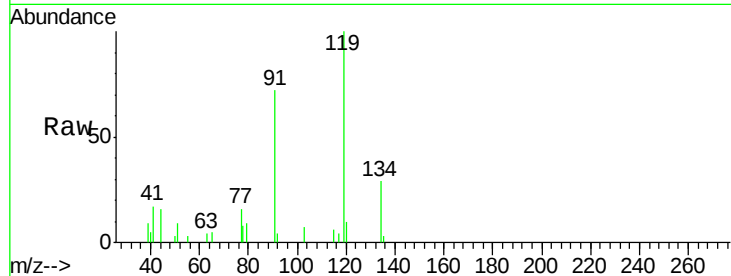
#83  
tert-Butylbenzene  
Concen: 0.58 ug/l  
RT: 11.10 min Scan# 3270  
Delta R.T. 0.00 min  
Lab File: VU024872.D  
Acq: 25 Jun 2018 14:06

Instrument :  
MSVOA\_U  
ClientSampleId :  
WP021RW246-180618DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 91      | 72.3  | 29.7  | 89.1  |
| 134     | 23.8  | 11.6  | 34.7  |

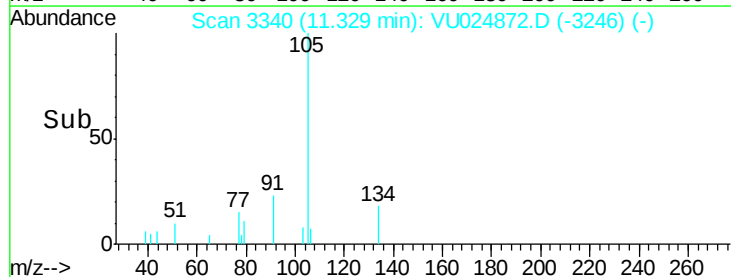
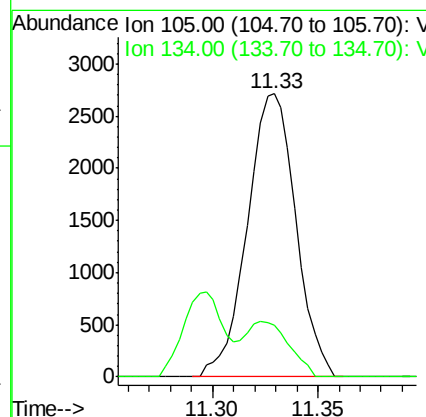
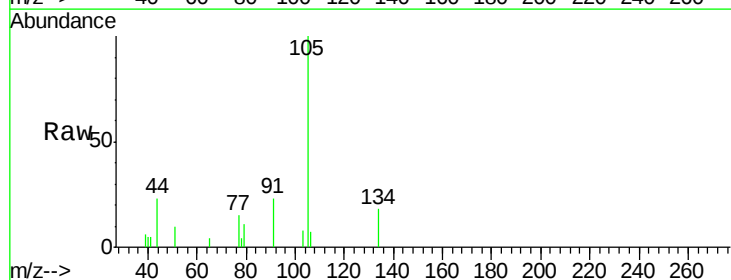
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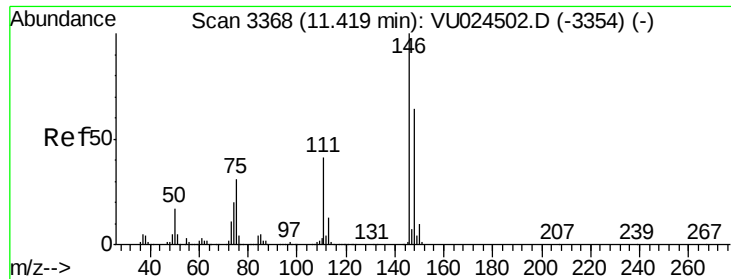
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#85  
sec-Butylbenzene  
Concen: 0.34 ug/l  
RT: 11.33 min Scan# 3340  
Delta R.T. 0.00 min  
Lab File: VU024872.D  
Acq: 25 Jun 2018 14:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 16.7  | 9.7   | 29.1  |





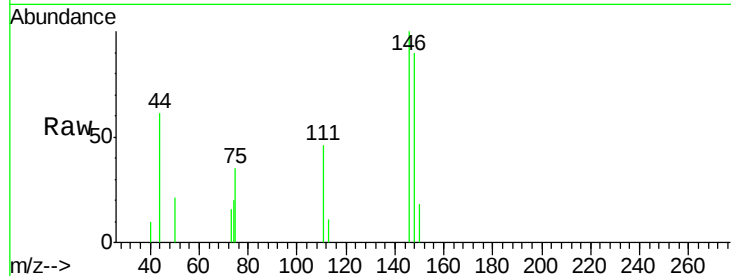
#87  
 1,3-Dichlorobenzene  
 Concen: 0.34 ug/l  
 RT: 11.43 min Scan# 3370  
 Delta R.T. 0.01 min  
 Lab File: VU024872.D  
 Acq: 25 Jun 2018 14:06

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 WP021RW246-180618DL

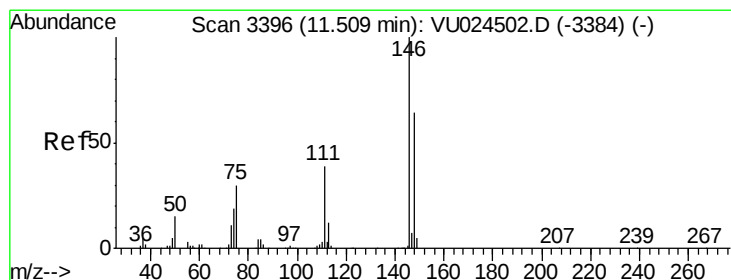
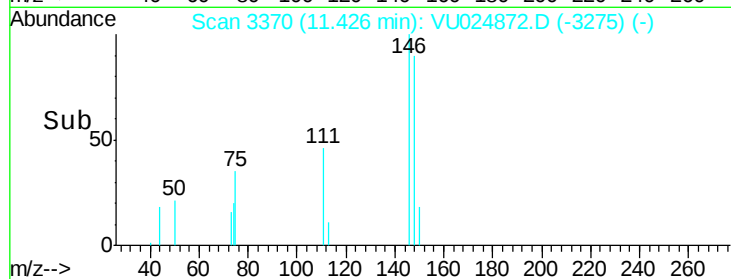
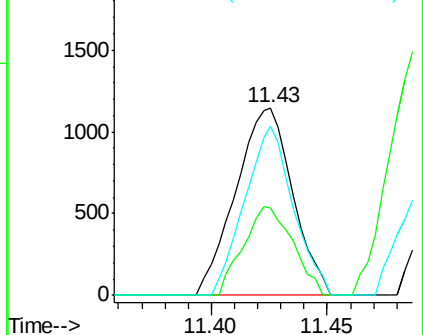
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.0  | 20.0  | 60.0  |
| 148     | 77.0  | 32.1  | 96.5  |

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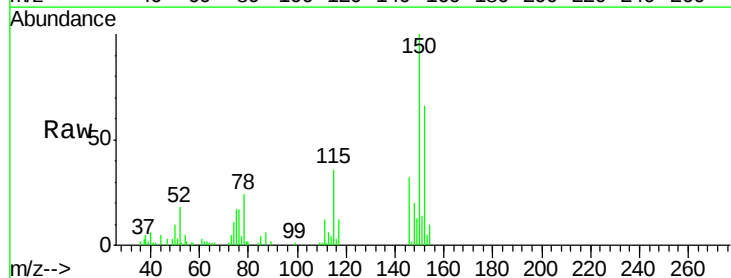


Abundance Ion 145.90 (145.60 to 146.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V

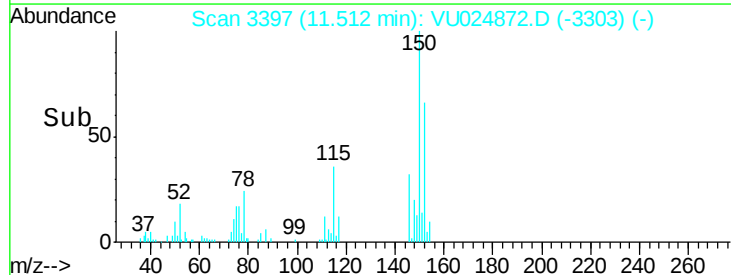
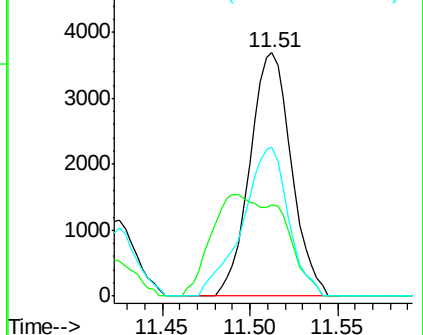


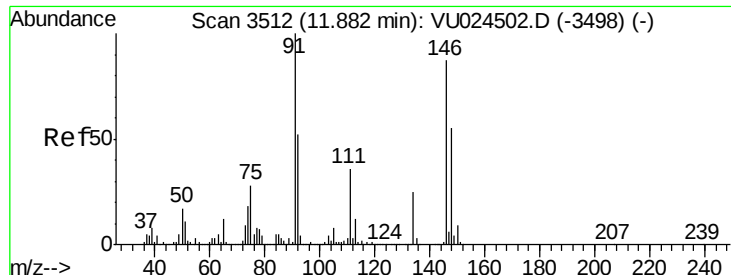
#88  
 1,4-Dichlorobenzene  
 Concen: 1.05 ug/l m  
 RT: 11.51 min Scan# 3397  
 Delta R.T. 0.00 min  
 Lab File: VU024872.D  
 Acq: 25 Jun 2018 14:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 13.2  | 19.5  | 58.5# |
| 148     | 24.8  | 32.4  | 97.0# |



Abundance Ion 145.90 (145.60 to 146.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V





#91

1,2-Dichlorobenzene

Concen: 1.94 ug/l

RT: 11.88 min Scan# 3512

Delta R.T. 0.00 min

Lab File: VU024872.D

Acq: 25 Jun 2018 14:06

Instrument :

MSVOA\_U

ClientSampleId :

WP021RW246-180618DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 11173 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 45.2  | 20.5  | 61.6  |
| 148       | 64.7  | 31.9  | 95.7  |

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