

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U092818\  
 Data File : VU027305.D  
 Acq On : 29 Sep 2018 05:02  
 Operator : MD/SY  
 Sample : J4777-40  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 PL-01-092718-D

Quant Time: Oct 01 03:52:54 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U092218W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 22 01:31:57 2018  
 Response via : Initial Calibration

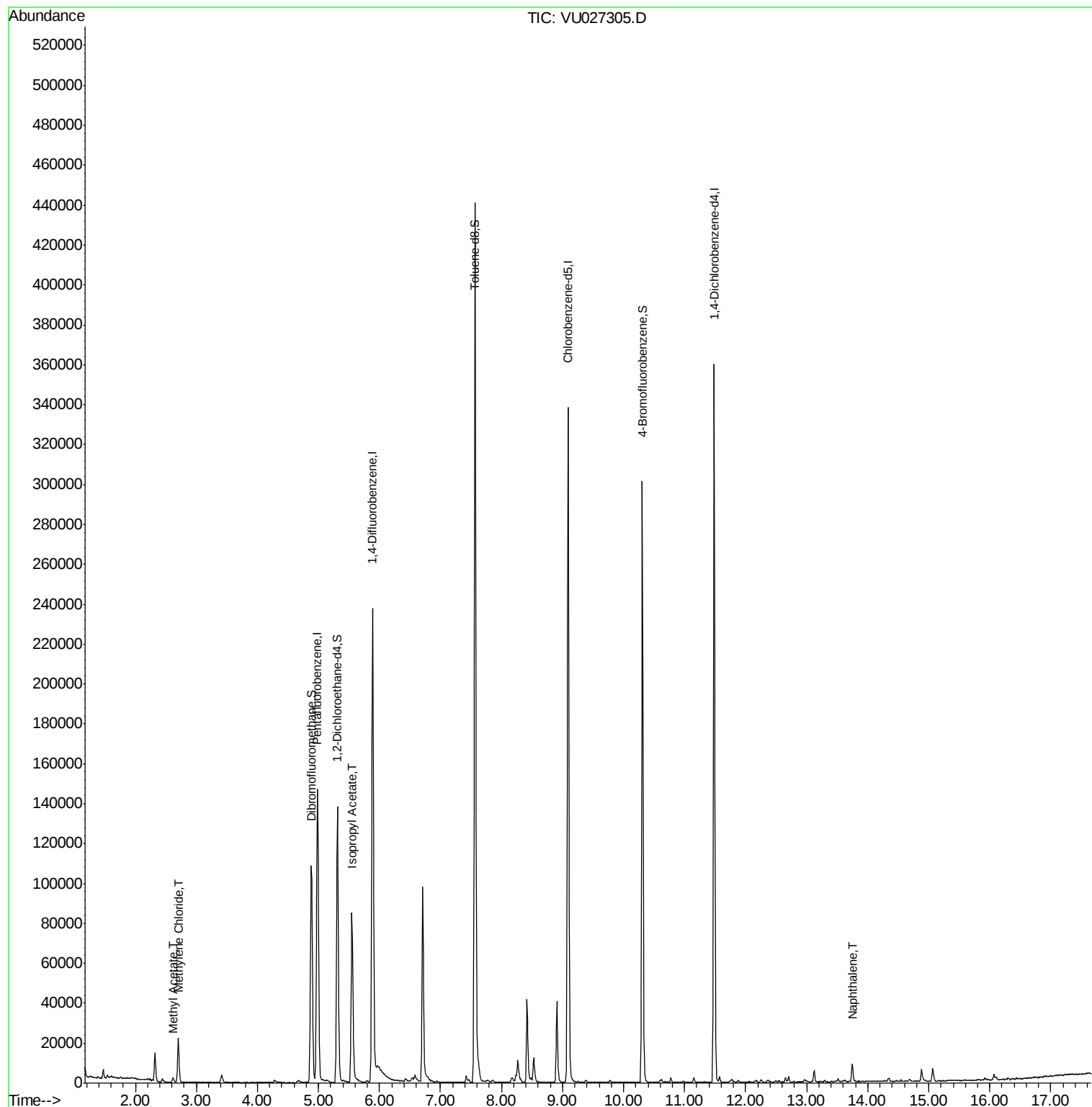
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) Pentafluorobenzene       | 4.98  | 168  | 106440   | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 5.89  | 114  | 181528   | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 9.09  | 117  | 177000   | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 11.48 | 152  | 85551    | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 5.31  | 65   | 105064   | 49.04  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 98.08% |          |
| 35) Dibromofluoromethane    | 4.88  | 113  | 74988    | 47.66  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 95.32% |          |
| 50) Toluene-d8              | 7.57  | 98   | 289842   | 48.33  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 96.66% |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 97430    | 47.35  | ug/l   | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =      | 94.70% |          |
| Target Compounds            |       |      |          |        |        |          |
| 18) Methyl Acetate          | 2.62  | 43   | 3182     | 1.044  | ug/l # | 89       |
| 20) Methylene Chloride      | 2.70  | 84   | 8961     | 4.671  | ug/l   | 98       |
| 43) Isopropyl Acetate       | 5.55  | 43   | 101713   | 21.265 | ug/l   | 98       |
| 95) Naphthalene             | 13.75 | 128  | 7662     | 2.734  | ug/l   | 97       |

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

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Quant Title : SW846 8260  
QLast Update : Sat Sep 22 01:31:57 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU027305.D

Acq: 29 Sep 2018 05:02

Instrument :

MSVOA\_U

ClientSampleId :

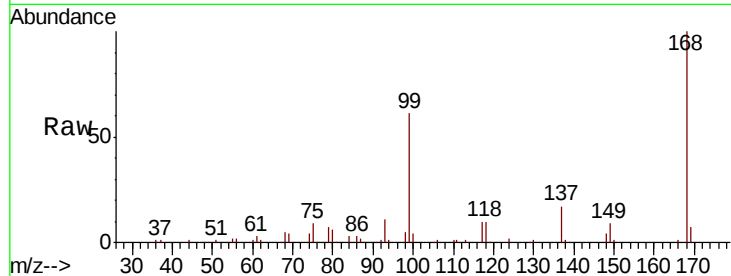
PL-01-092718-D

Tot Ion:168 Resp: 106440

Ion Ratio Lower Upper

168 100

99 61.4 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): VU026969.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU026969.D (-1169) (-)

4.98

50000

40000

30000

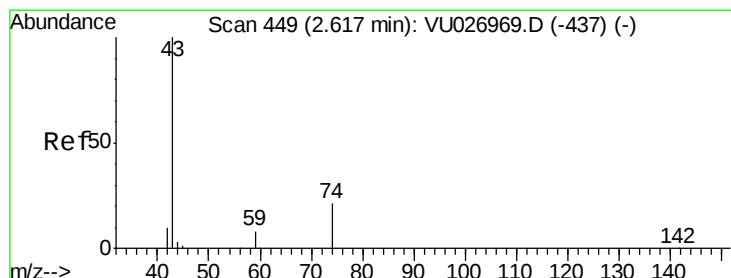
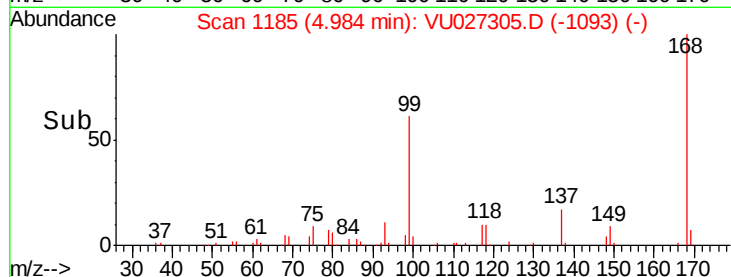
20000

10000

0

4.90 4.95 5.00 5.05

Time-->



#18

Methyl Acetate

Concen: 1.044 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.00 min

Lab File: VU027305.D

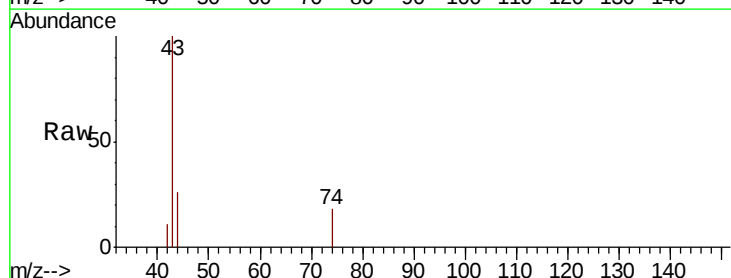
Acq: 29 Sep 2018 05:02

Tgt Ion: 43 Resp: 3182

Ion Ratio Lower Upper

43 100

74 15.8 16.6 25.0#



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-437) (-)

Ion 74.00 (73.70 to 74.70): VU026969.D (-437) (-)

2.62

2000

1500

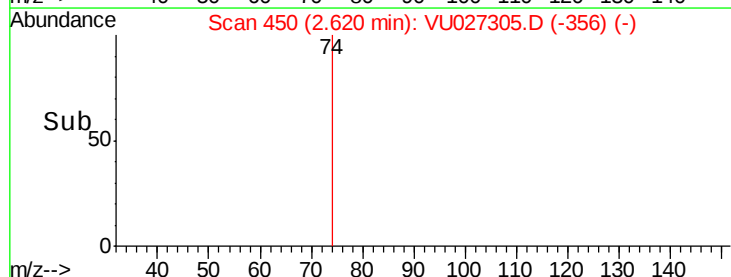
1000

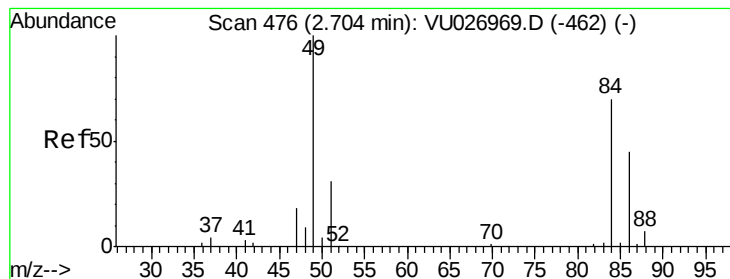
500

0

2.55 2.60 2.65

Time-->





#20

Methvlene Chloride

Concen: 4.671 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.00 min

Lab File: VU027305.D

Acq: 29 Sep 2018 05:02

Instrument :

MSVOA\_U

ClientSampleId :

PL-01-092718-D

Tot Ion: 84 Resp: 8961

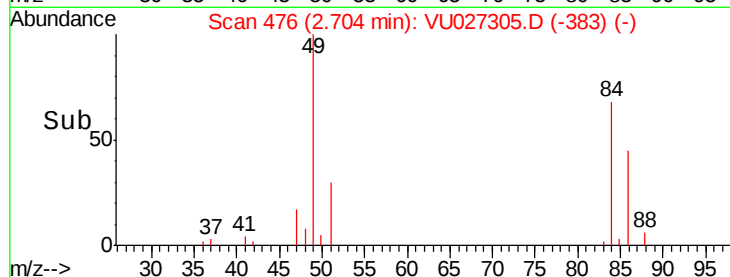
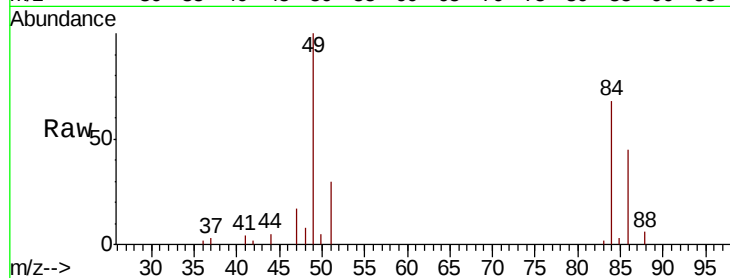
Ion Ratio Lower Upper

84 100

49 146.7 114.9 172.3

51 43.5 35.8 53.8

86 65.5 51.3 76.9



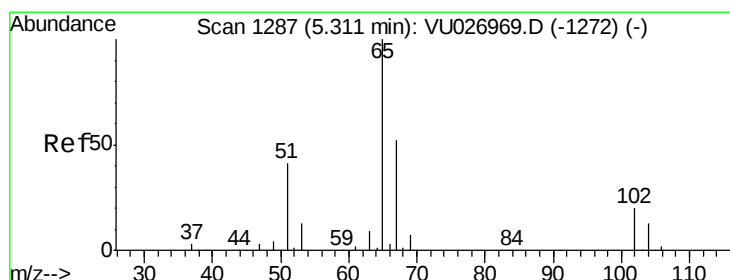
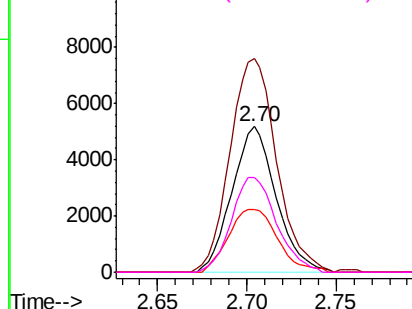
Abundance

Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0



#33

1,2-Dichloroethane-d4

Concen: 49.043 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VU027305.D

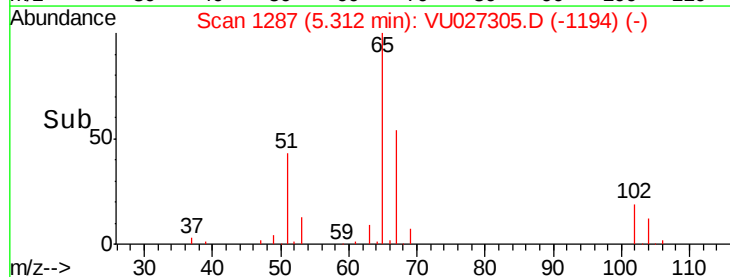
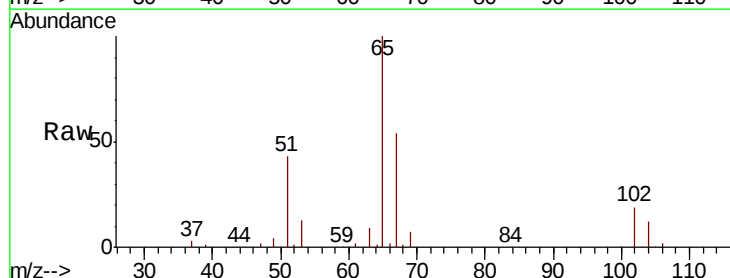
Acq: 29 Sep 2018 05:02

Tgt Ion: 65 Resp: 105064

Ion Ratio Lower Upper

65 100

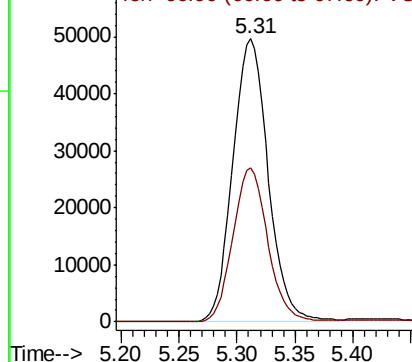
67 53.5 0.0 105.6

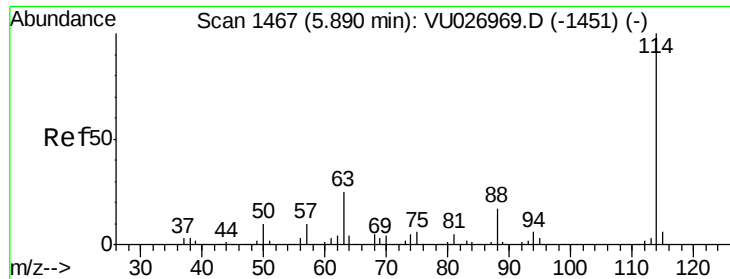


Abundance

Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

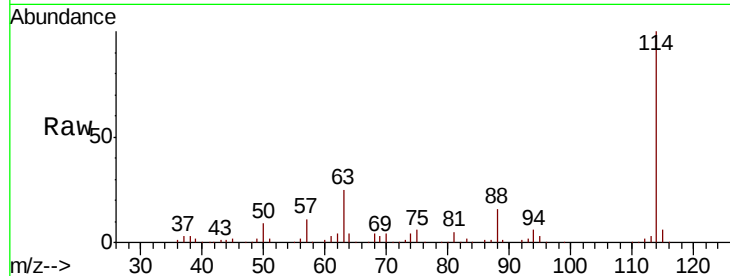




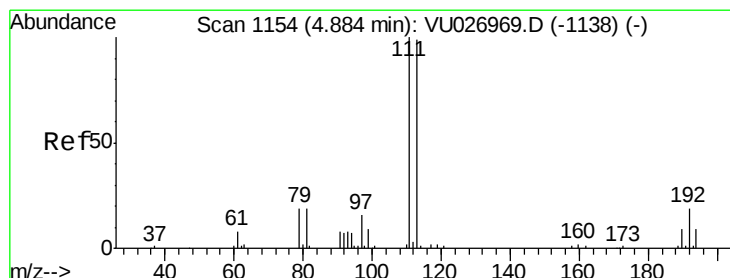
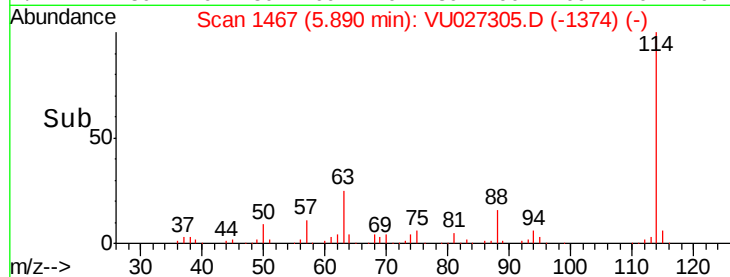
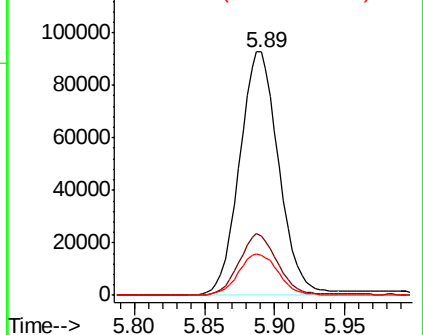
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU027305.D  
 Acq: 29 Sep 2018 05:02

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 PL-01-092718-D

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 24.6  | 0.0   | 49.2  |
| 88      | 16.5  | 0.0   | 33.8  |

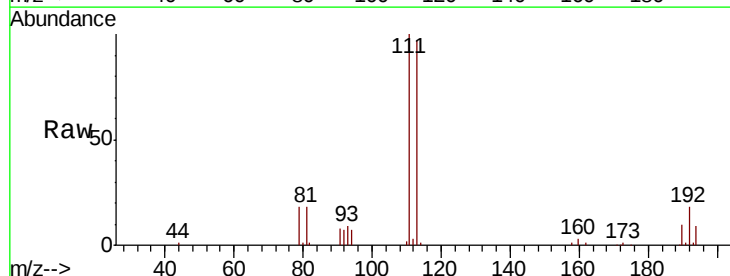


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

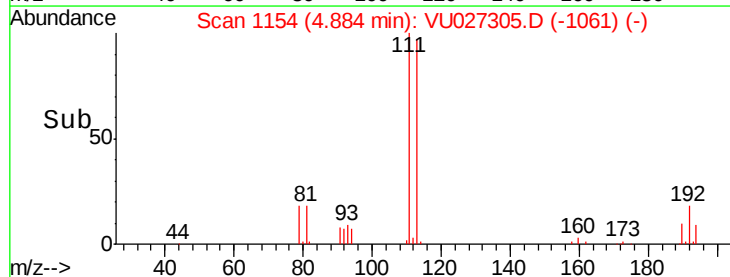
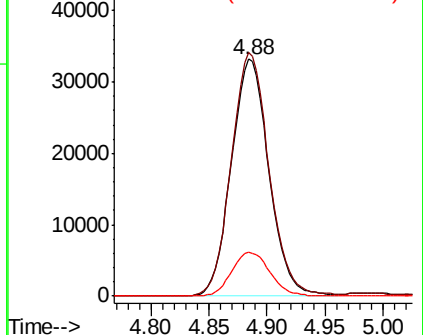


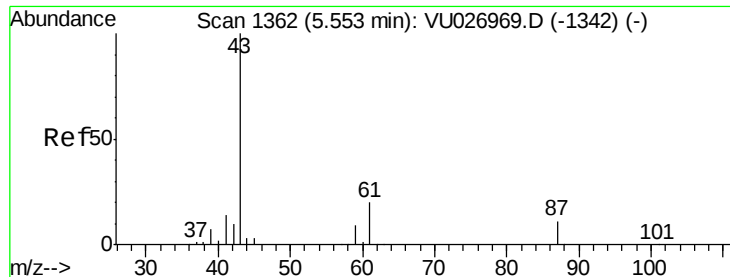
#35  
 Dibromofluoromethane  
 Concen: 47.657 ug/l  
 RT: 4.88 min Scan# 1154  
 Delta R.T. 0.00 min  
 Lab File: VU027305.D  
 Acq: 29 Sep 2018 05:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.0 | 82.2  | 123.4 |
| 192     | 18.7  | 15.2  | 22.8  |



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V





#43

Isopropyl Acetate

Concen: 21.265 ug/l

RT: 5.55 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VU027305.D

Acq: 29 Sep 2018 05:02

Instrument :

MSVOA\_U

ClientSampleId :

PL-01-092718-D

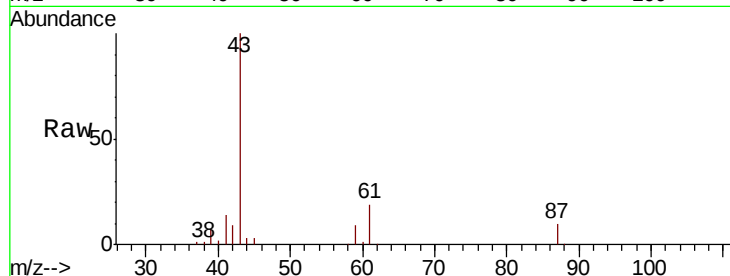
Tot Ion: 43 Resp: 101713

Ion Ratio Lower Upper

43 100

61 18.8 15.7 23.5

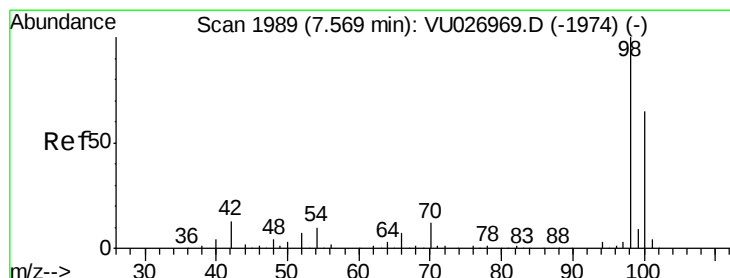
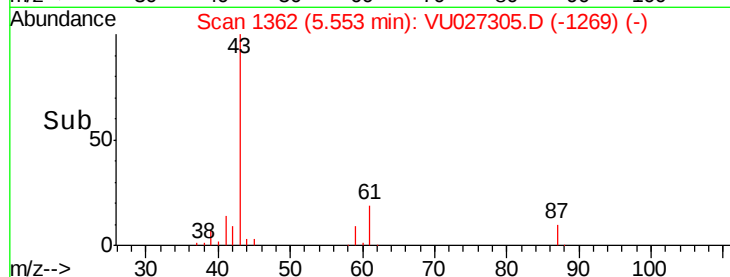
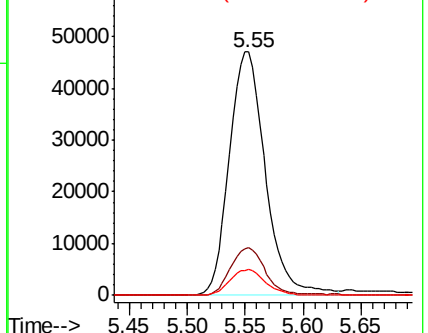
87 10.3 9.0 13.4



Abundance Ion 43.00 (42.70 to 43.70): VU026969.D (-1342) (-)

Ion 61.00 (60.70 to 61.70): VU026969.D (-1342) (-)

Ion 87.00 (86.70 to 87.70): VU026969.D (-1342) (-)



#50

Toluene-d8

Concen: 48.334 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU027305.D

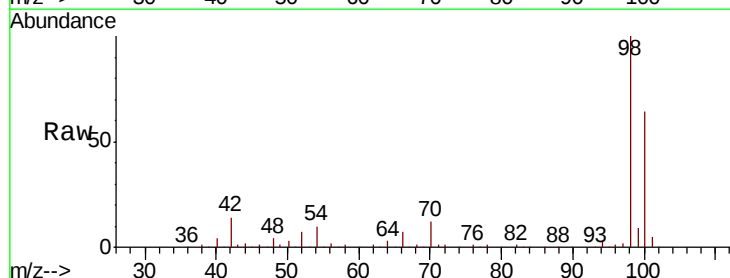
Acq: 29 Sep 2018 05:02

Tgt Ion: 98 Resp: 289842

Ion Ratio Lower Upper

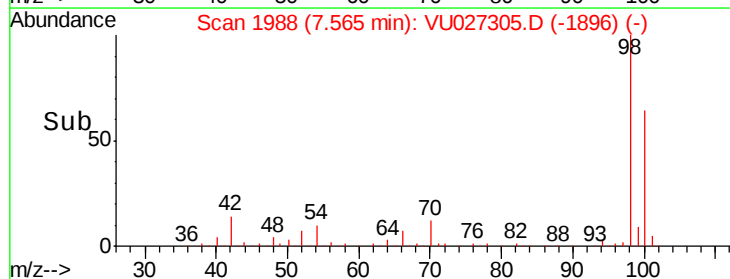
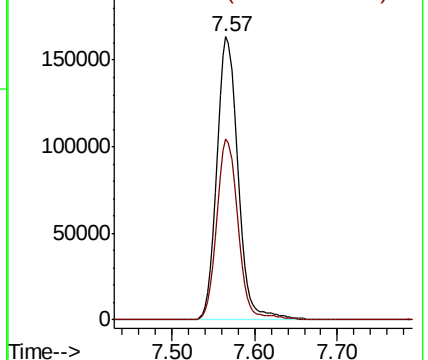
98 100

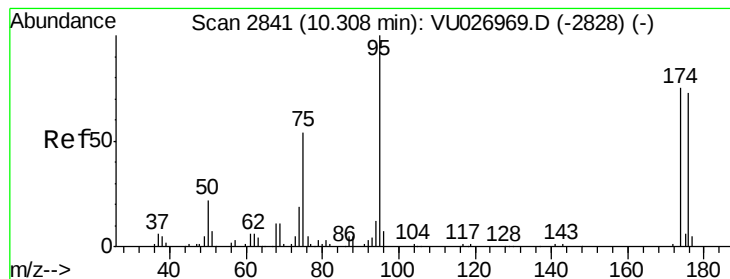
100 64.5 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VU026969.D (-1974) (-)

Ion 100.00 (99.70 to 100.70): VU026969.D (-1974) (-)





#62

4-Bromofluorobenzene

Concen: 47.351 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027305.D

Acq: 29 Sep 2018 05:02

Instrument :

MSVOA\_U

ClientSampleId :

PL-01-092718-D

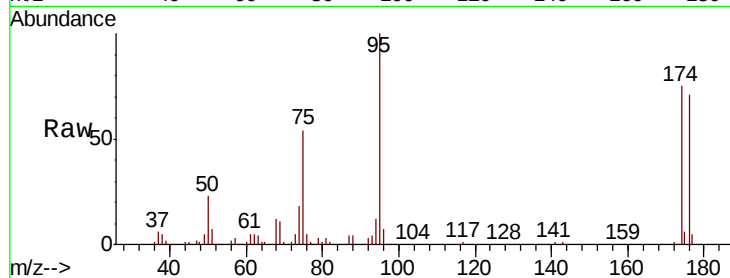
Tot Ion: 95 Resp: 97430

Ion Ratio Lower Upper

95 100

174 74.6 0.0 150.2

176 71.1 0.0 145.2

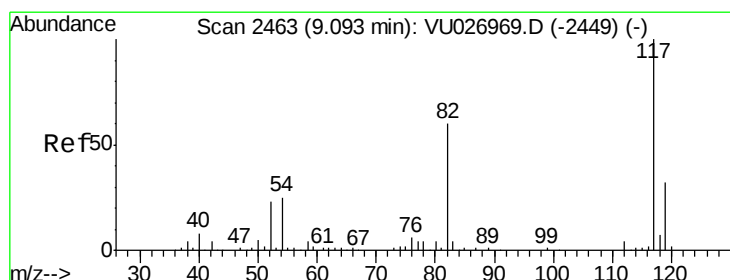
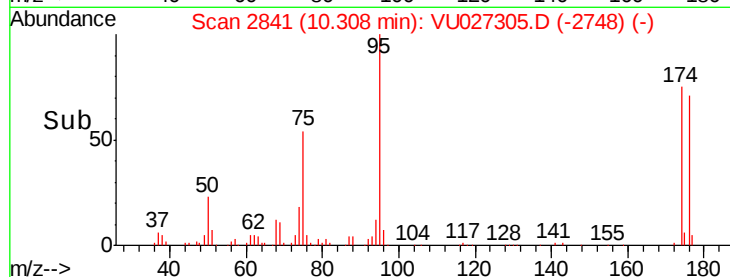


Abundance Ion 94.90 (94.60 to 95.60): VU026969.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU026969.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU026969.D (-2828) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VU027305.D

Acq: 29 Sep 2018 05:02

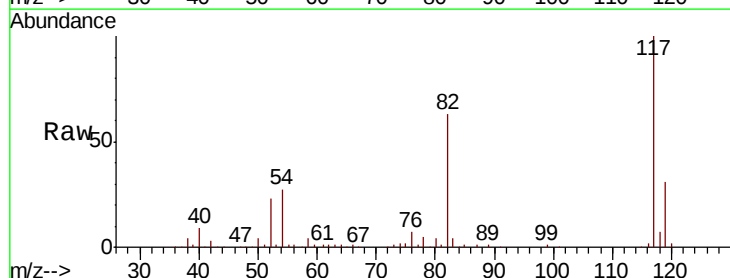
Tgt Ion: 117 Resp: 177000

Ion Ratio Lower Upper

117 100

82 62.7 48.0 72.0

119 30.9 25.8 38.8

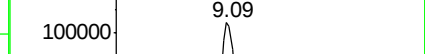
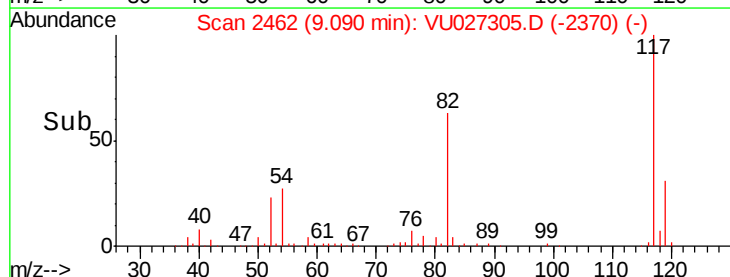


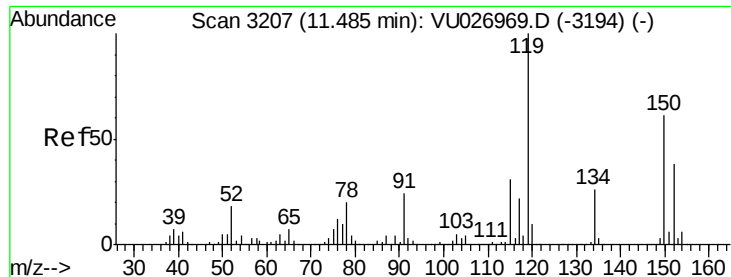
Abundance Ion 116.90 (116.60 to 117.60): VU026969.D (-2449) (-)

Ion 82.00 (81.70 to 82.70): VU026969.D (-2449) (-)

Ion 118.90 (118.60 to 119.60): VU026969.D (-2449) (-)

Time-->



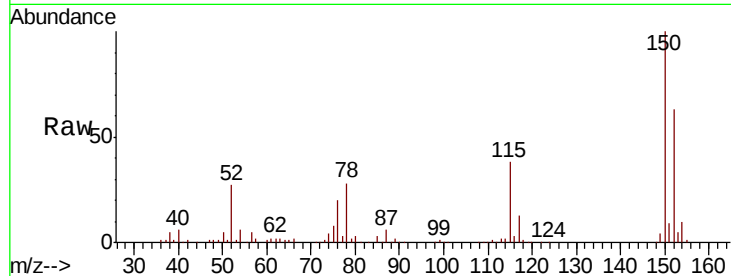


#72

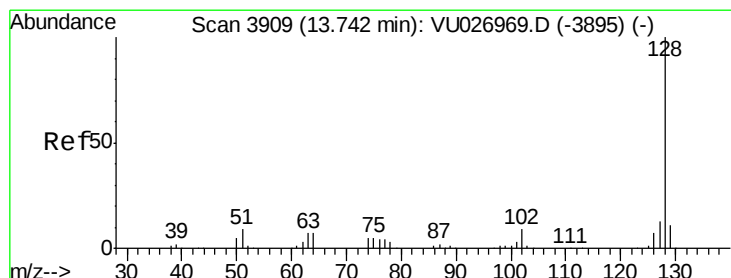
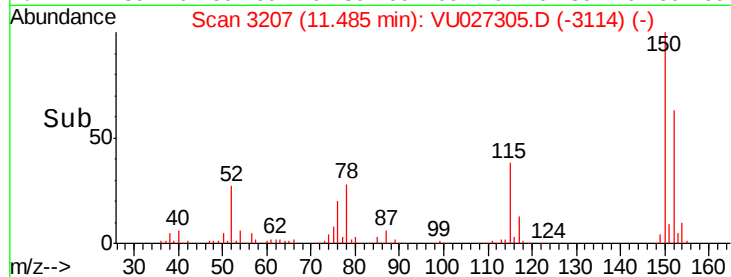
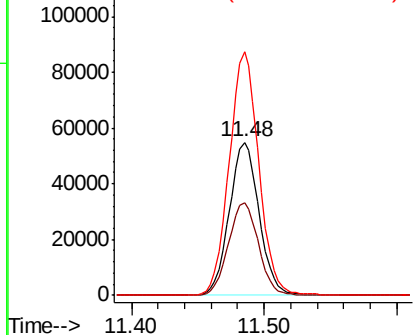
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3207  
Delta R.T. 0.00 min  
Lab File: VU027305.D  
Acq: 29 Sep 2018 05:02

Instrument :  
MSVOA\_U  
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PL-01-092718-D

Tot Ion:152 Resp: 85551  
Ion Ratio Lower Upper  
152 100  
115 61.1 44.9 134.5  
150 158.7 0.0 355.8



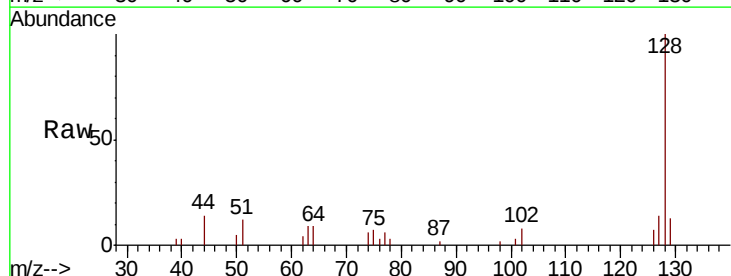
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



#95

Naphthalene  
Concen: 2.734 ug/l  
RT: 13.75 min Scan# 3911  
Delta R.T. 0.01 min  
Lab File: VU027305.D  
Acq: 29 Sep 2018 05:02

Tgt Ion:128 Resp: 7662  
Ion Ratio Lower Upper  
128 100  
127 12.7 10.6 15.8  
129 12.3 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

