

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU100418\  
 Data File : VU027424.D  
 Acq On : 04 Oct 2018 21:33  
 Operator : MD/SY  
 Sample : J5232-02  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MW-9

Quant Time: Oct 05 03:18:19 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U100118W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 02:04:34 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 4.99  | 168  | 103166   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 5.89  | 114  | 184778   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.09  | 117  | 179248   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 95536    | 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   | 104496   | 60.66 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 121.32% |          |
| 35) Dibromofluoromethane    | 4.89  | 113  | 73648    | 58.16 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 116.32% |          |
| 50) Toluene-d8              | 7.57  | 98   | 282117   | 59.52 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 119.04% |          |
| 62) 4-Bromofluorobenzene    | 10.31 | 95   | 101910   | 57.86 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 115.72% |          |

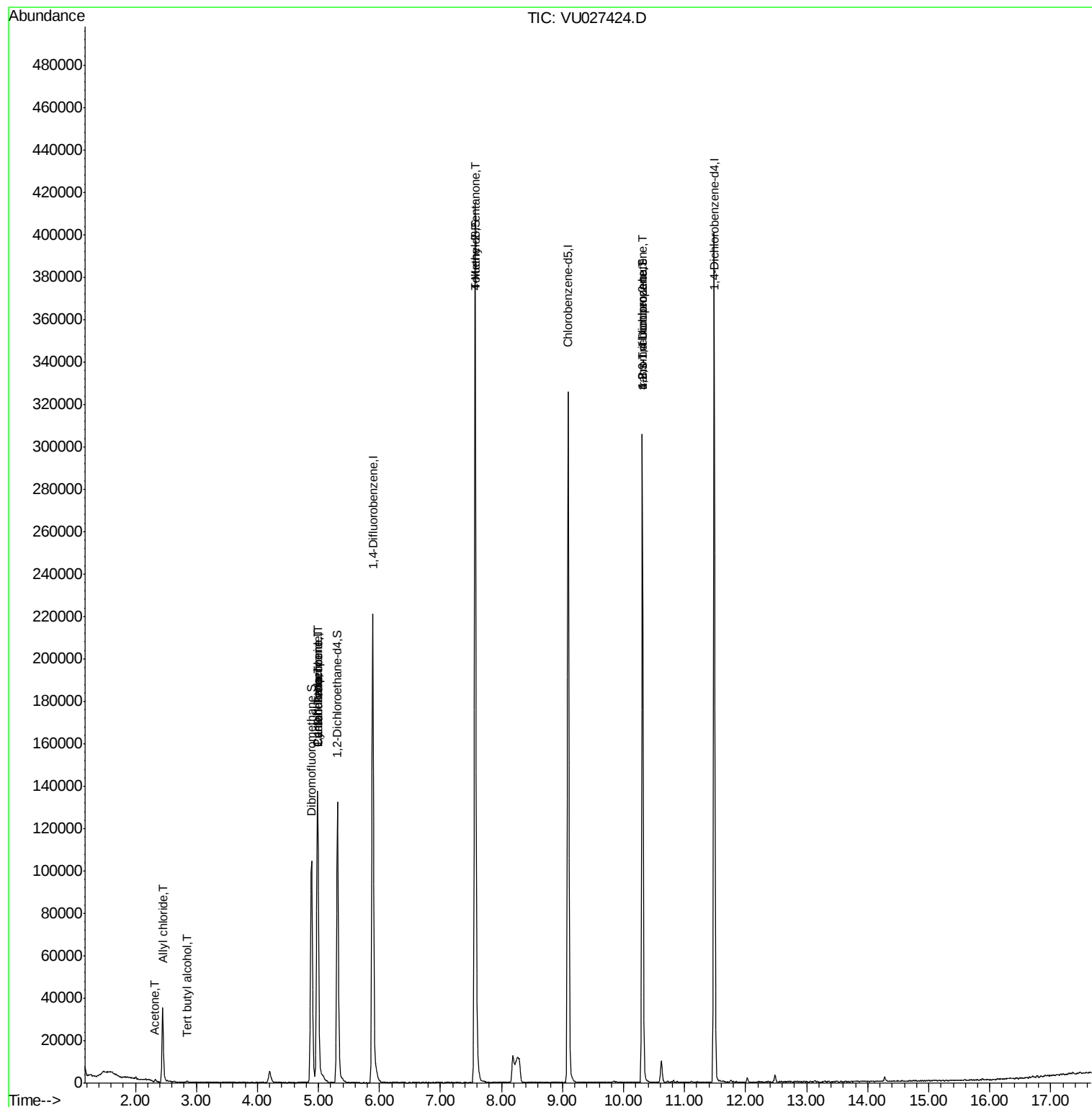
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 11) Tert butyl alcohol         | 2.84  | 59   | 330      | 0.910  | ug/l # | 72     |
| 14) Allyl chloride             | 2.45  | 41   | 3663     | 1.416  | ug/l # | 76     |
| 16) Acetone                    | 2.32  | 43   | 1335     | 1.312  | ug/l   | 98     |
| 31) Cyclohexane                | 4.99  | 56   | 2416     | 0.640  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 4.98  | 75   | 9194     | 4.583  | ug/l # | 47     |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 10881    | 6.004  | ug/l # | 19     |
| 51) 4-Methyl-2-Pentanone       | 7.57  | 43   | 1340     | 0.512  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 54057    | 21.828 | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 54057    | 57.126 | ug/l # | 100    |

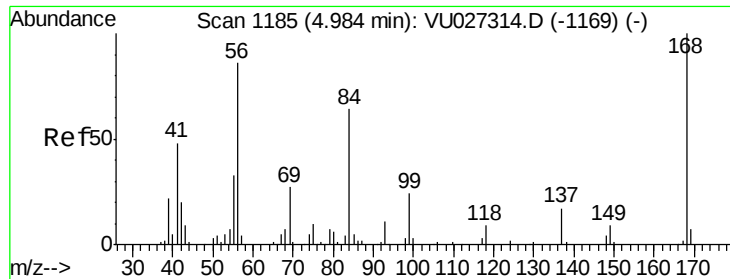
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Oct 02 02:04:34 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU027424.D

Acq: 04 Oct 2018 21:33

Instrument :

MSVOA\_U

ClientSampled :

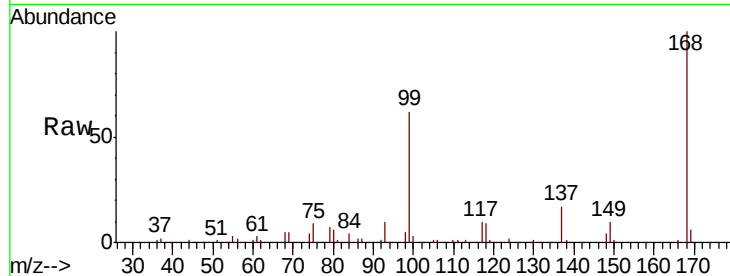
MW-9

Tgt Ion:168 Resp: 103166

Ion Ratio Lower Upper

168 100

99 61.8 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): VU027314.D (-1169) (-)

Ion 98.90 (98.60 to 99.60): VU027314.D (-1169) (-)

4.99

50000

40000

30000

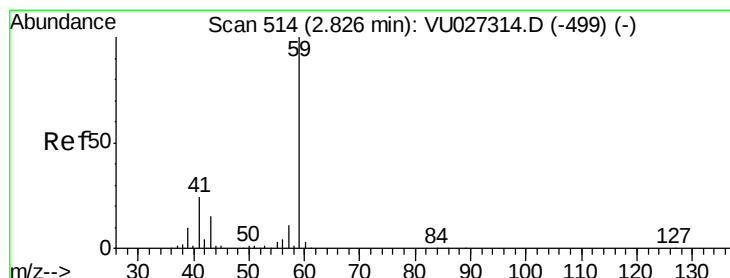
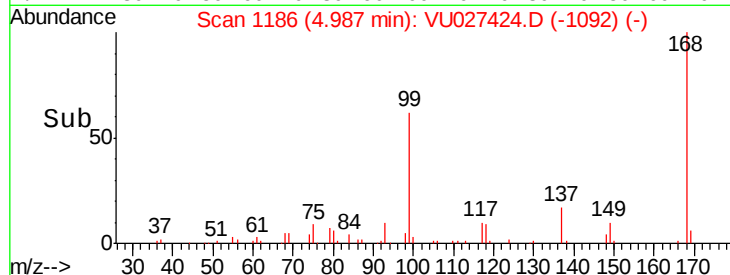
20000

10000

0

Time-->

4.90 4.95 5.00 5.05



#11

Tert butyl alcohol

Concen: 0.910 ug/l

RT: 2.84 min Scan# 519

Delta R.T. 0.02 min

Lab File: VU027424.D

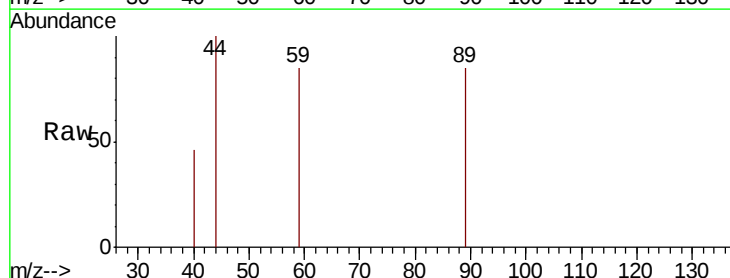
Acq: 04 Oct 2018 21:33

Tgt Ion: 59 Resp: 330

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VU027314.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU027314.D (-499) (-)

2.84

300

250

200

150

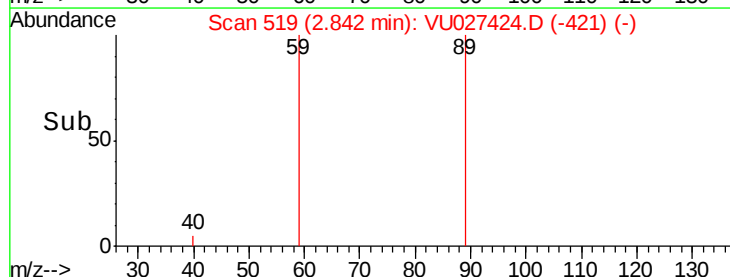
100

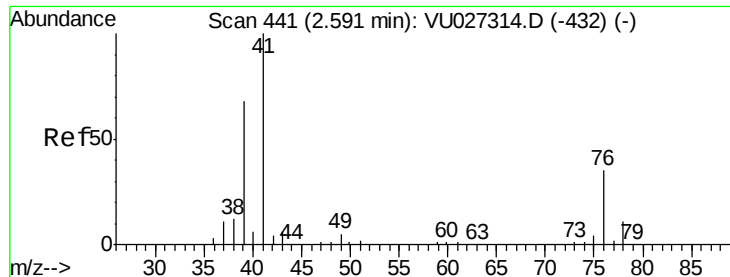
50

0

Time-->

2.82 2.84 2.86





#14

Allyl chloride

Concen: 1.416 ug/l

RT: 2.45 min Scan# 396

Delta R.T. -0.14 min

Lab File: VU027424.D

Acq: 04 Oct 2018 21:33

Instrument :

MSVOA\_U

ClientSampleId :

MW-9

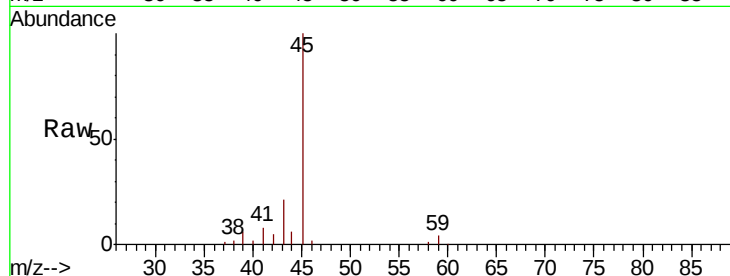
Tgt Ion: 41 Resp: 3663

Ion Ratio Lower Upper

41 100

39 70.3 51.8 77.8

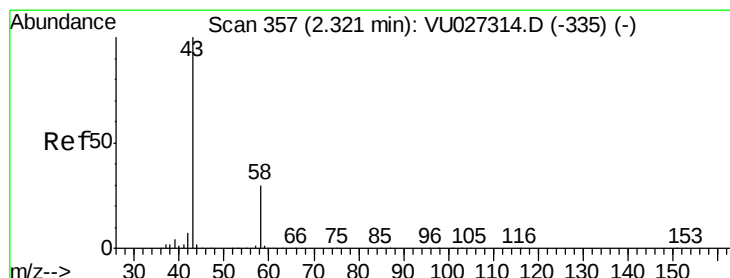
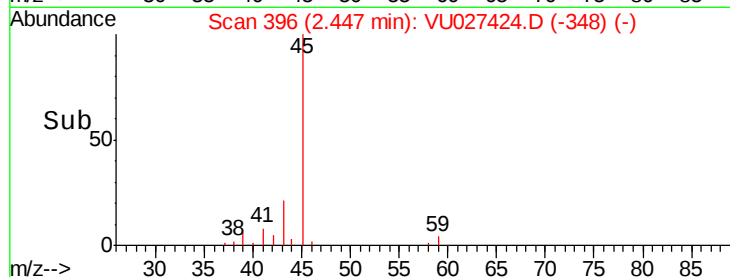
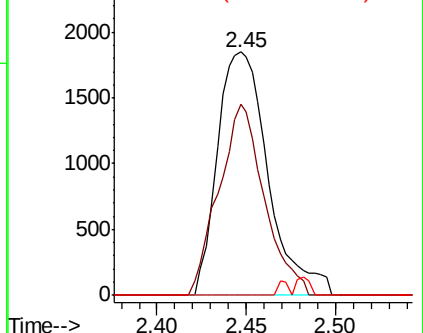
76 0.0 25.9 38.9#



Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0



#16

Acetone

Concen: 1.312 ug/l

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU027424.D

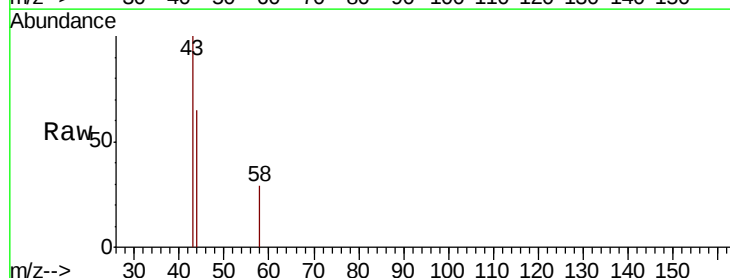
Acq: 04 Oct 2018 21:33

Tgt Ion: 43 Resp: 1335

Ion Ratio Lower Upper

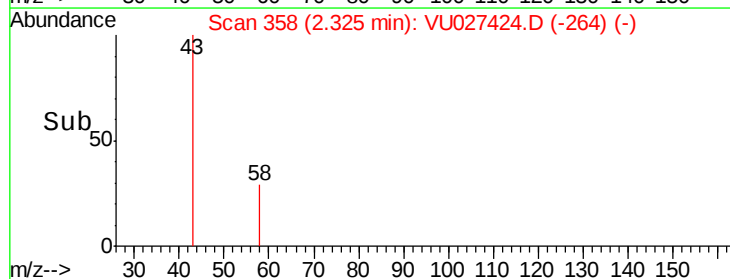
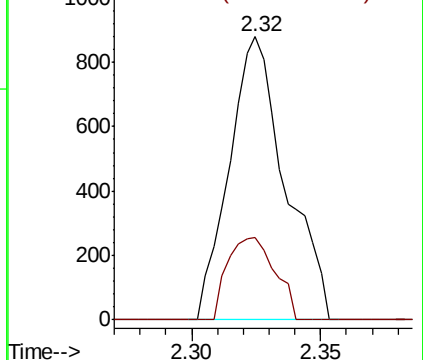
43 100

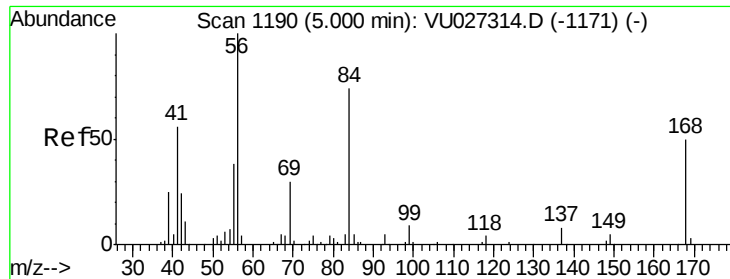
58 29.3 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

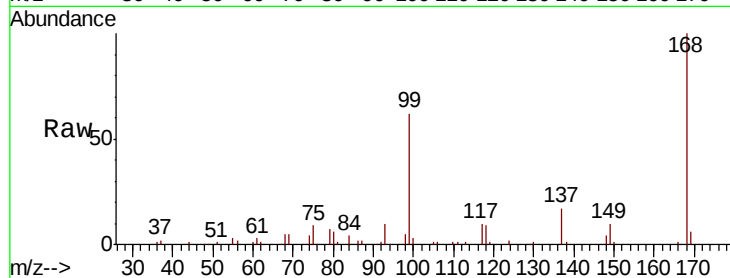




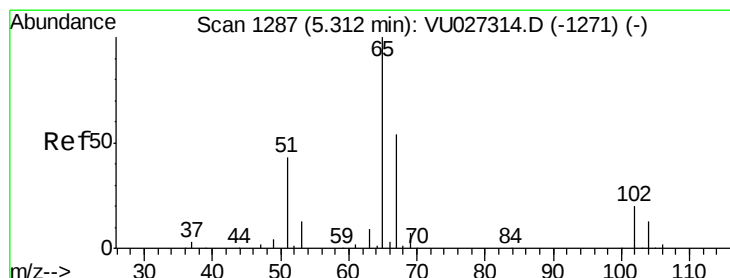
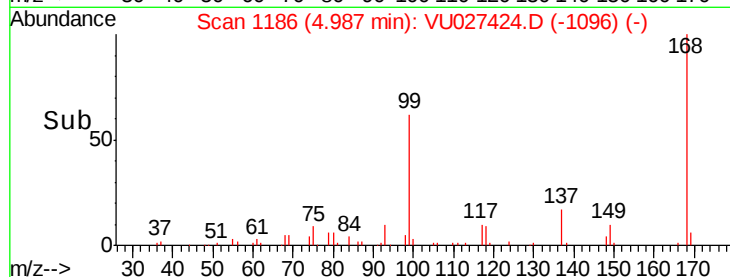
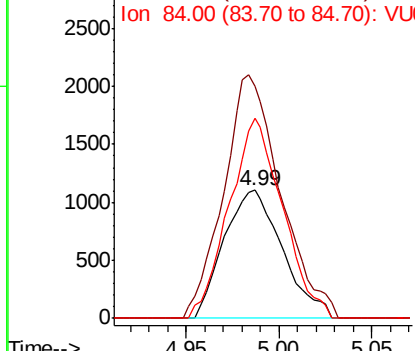
#31  
Cyclohexane  
Concen: 0.640 ug/l  
RT: 4.99 min Scan# 1186  
Delta R.T. -0.01 min  
Lab File: VU027424.D  
Acq: 04 Oct 2018 21:33

Instrument :  
MSVOA\_U  
ClientSampled :  
MW-9

Tgt Ion: 56 Resp: 2416  
Ion Ratio Lower Upper  
56 100  
69 181.4 24.1 36.1#  
84 156.4 59.1 88.7#

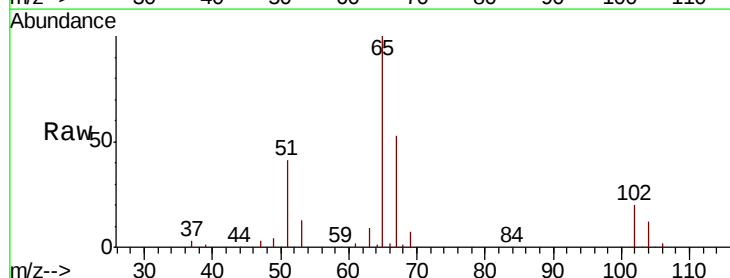


Abundance Ion 56.00 (55.70 to 56.70): VU0  
Ion 69.00 (68.70 to 69.70): VU0  
Ion 84.00 (83.70 to 84.70): VU0

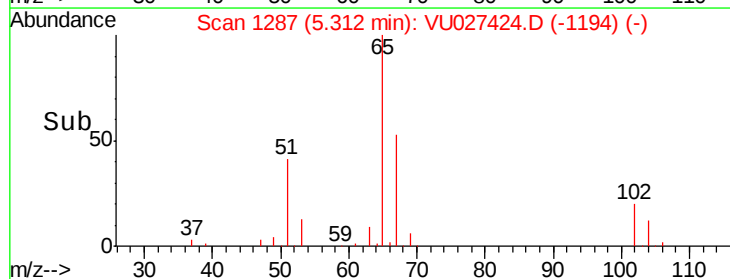
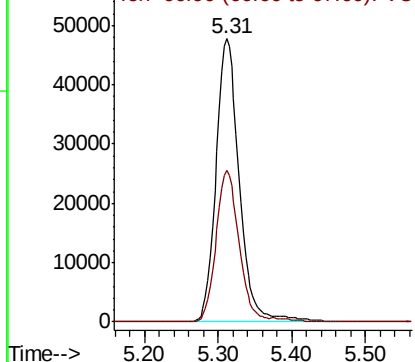


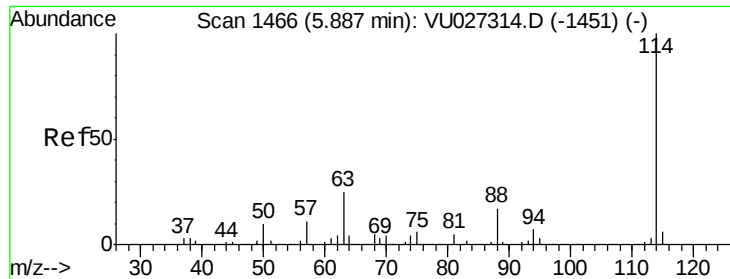
#33  
1,2-Dichloroethane-d4  
Concen: 60.659 ug/l  
RT: 5.31 min Scan# 1287  
Delta R.T. 0.00 min  
Lab File: VU027424.D  
Acq: 04 Oct 2018 21:33

Tgt Ion: 65 Resp: 104496  
Ion Ratio Lower Upper  
65 100  
67 53.6 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VU0  
Ion 66.90 (66.60 to 67.60): VU0

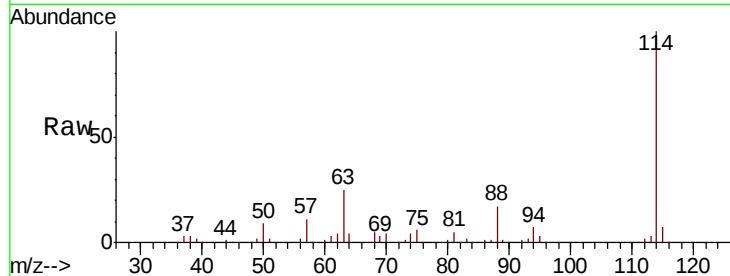




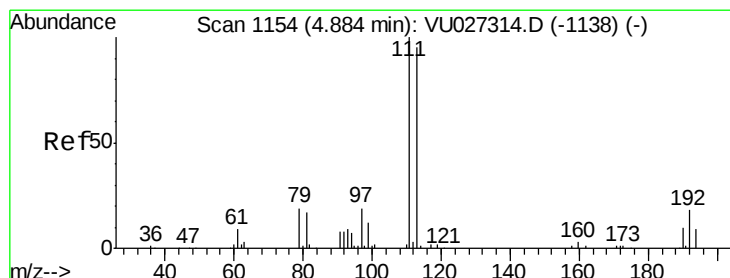
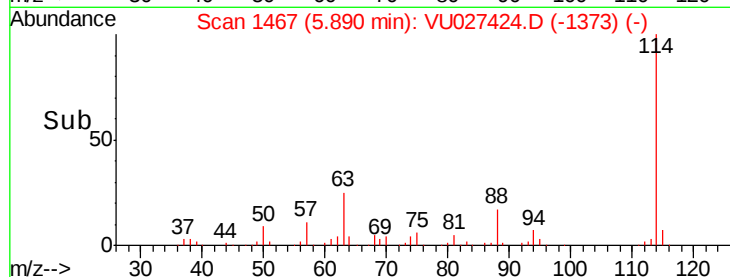
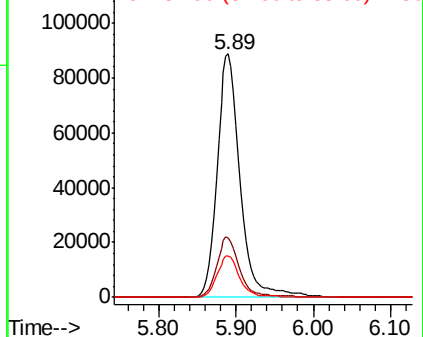
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1467  
 Delta R.T. 0.00 min  
 Lab File: VU027424.D  
 Acq: 04 Oct 2018 21:33

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MW-9

Tgt Ion:114 Resp: 184778  
 Ion Ratio Lower Upper  
 114 100  
 63 24.6 0.0 50.2  
 88 17.2 0.0 33.8

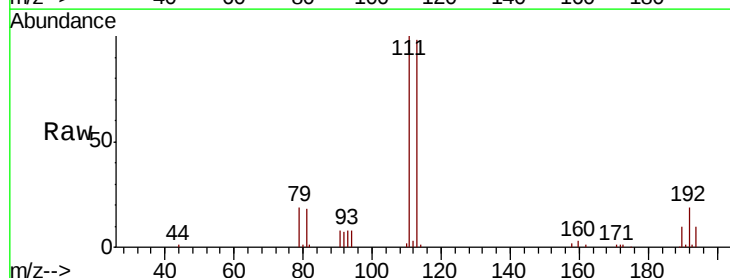


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VU0  
 Ion 87.90 (87.60 to 88.60): VU0

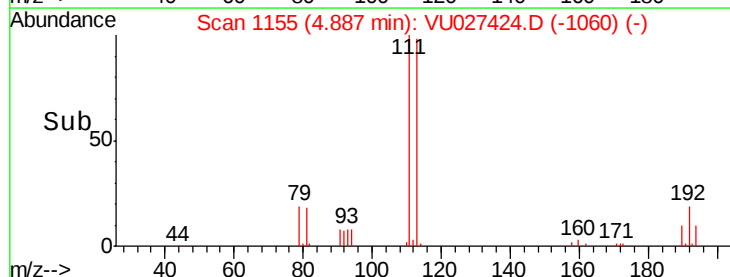
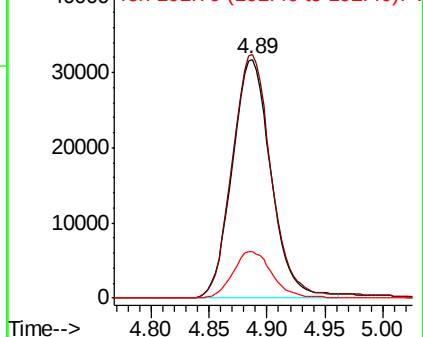


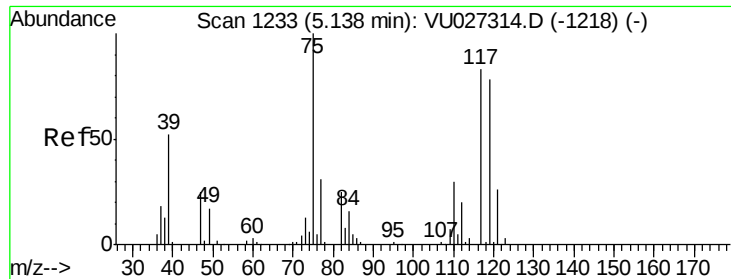
#35  
 Dibromofluoromethane  
 Concen: 58.158 ug/l  
 RT: 4.89 min Scan# 1155  
 Delta R.T. 0.00 min  
 Lab File: VU027424.D  
 Acq: 04 Oct 2018 21:33

Tgt Ion:113 Resp: 73648  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 83.1 124.7  
 192 19.5 15.4 23.0



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

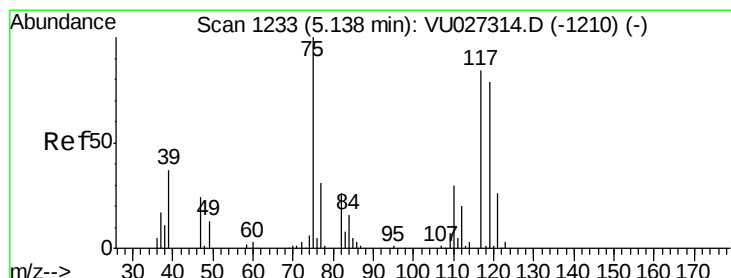
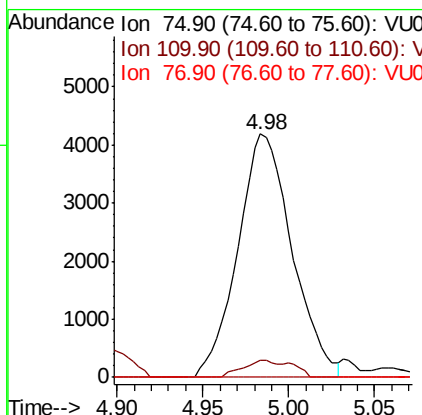
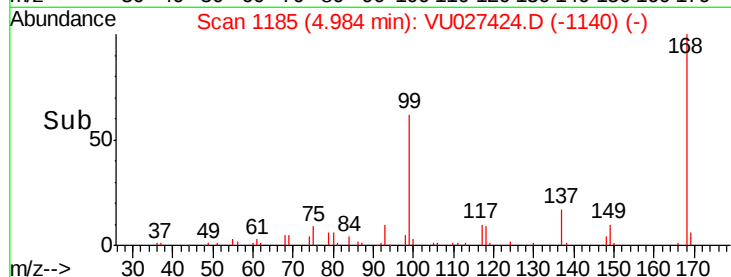
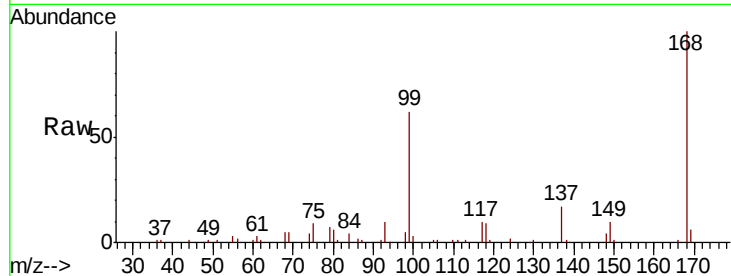




#36  
 1,1-Dichloropropene  
 Concen: 4.583 ug/l  
 RT: 4.98 min Scan# 1185  
 Delta R.T. -0.15 min  
 Lab File: VU027424.D  
 Acq: 04 Oct 2018 21:33

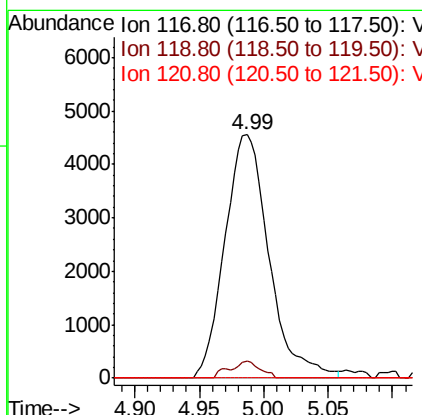
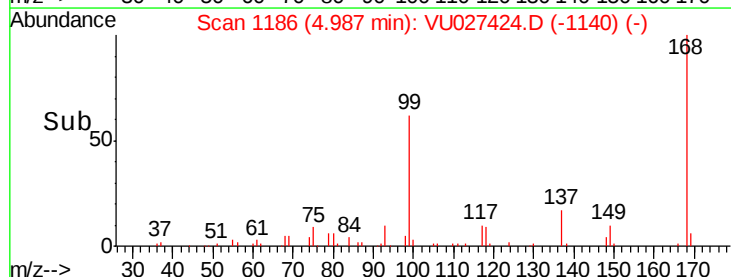
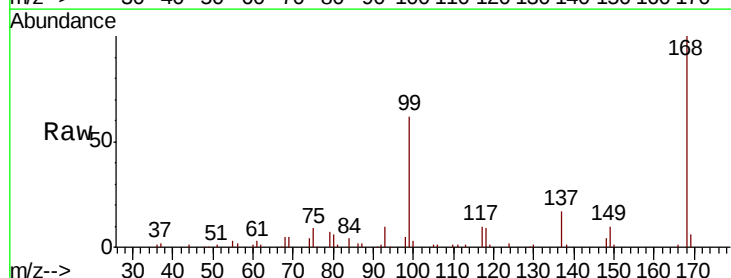
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
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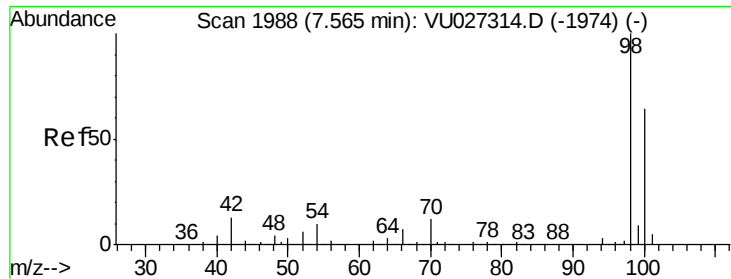
Tgt Ion: 75 Resp: 9194  
 Ion Ratio Lower Upper  
 75 100  
 110 4.3 15.5 46.5#  
 77 0.0 25.4 38.0#



#38  
 Carbon Tetrachloride  
 Concen: 6.004 ug/l  
 RT: 4.99 min Scan# 1186  
 Delta R.T. -0.15 min  
 Lab File: VU027424.D  
 Acq: 04 Oct 2018 21:33

Tgt Ion: 117 Resp: 10881  
 Ion Ratio Lower Upper  
 117 100  
 119 7.2 74.5 111.7#  
 121 0.0 24.6 37.0#

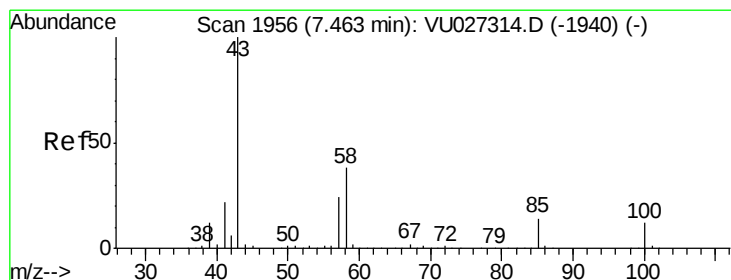
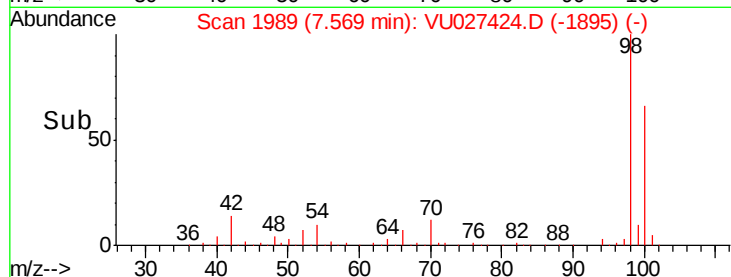
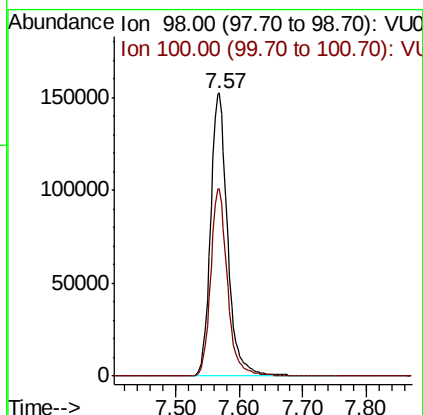
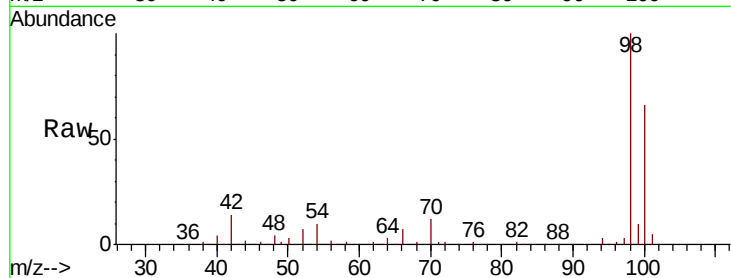




#50  
Toluene-d8  
Concen: 59.524 ug/l  
RT: 7.57 min Scan# 1989  
Delta R.T. 0.00 min  
Lab File: VU027424.D  
Acq: 04 Oct 2018 21:33

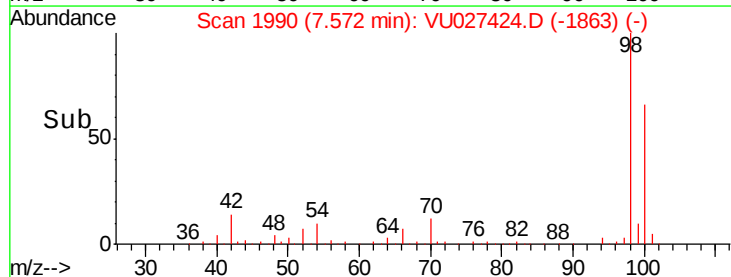
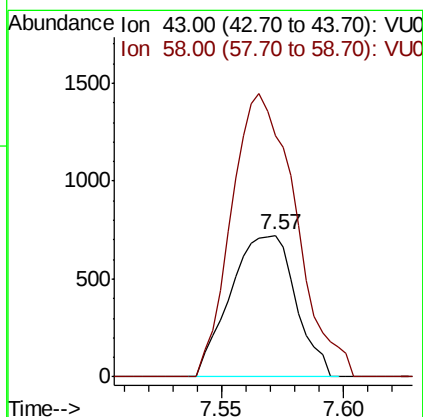
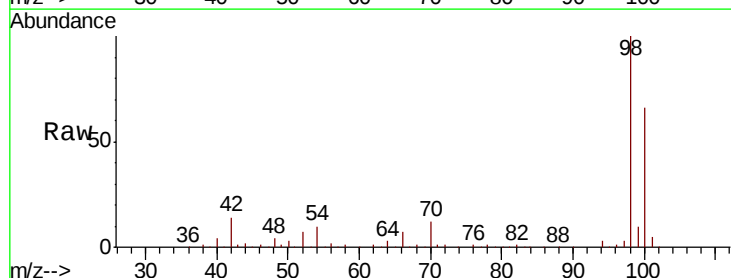
Instrument :  
MSVOA\_U  
ClientSampled :  
MW-9

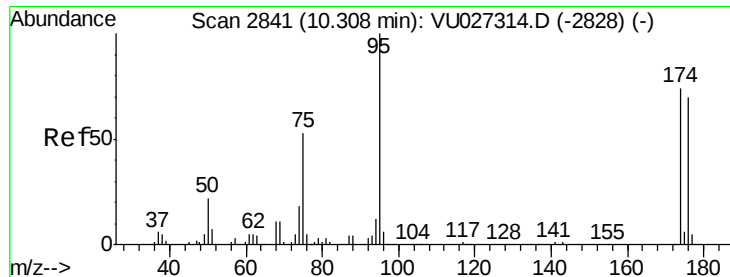
Tgt Ion: 98 Resp: 282117  
Ion Ratio Lower Upper  
98 100  
100 65.1 52.1 78.1



#51  
4-Methyl-2-Pentanone  
Concen: 0.512 ug/l  
RT: 7.57 min Scan# 1990  
Delta R.T. 0.11 min  
Lab File: VU027424.D  
Acq: 04 Oct 2018 21:33

Tgt Ion: 43 Resp: 1340  
Ion Ratio Lower Upper  
43 100  
58 197.0 29.8 44.8#





#62

4-Bromofluorobenzene

Concen: 57.858 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. 0.00 min

Lab File: VU027424.D

Acq: 04 Oct 2018 21:33

Instrument :

MSVOA\_U

ClientSampleId :

MW-9

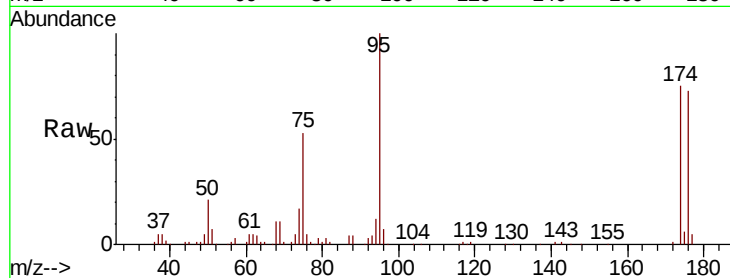
Tgt Ion: 95 Resp: 101910

Ion Ratio Lower Upper

95 100

174 75.7 0.0 147.8

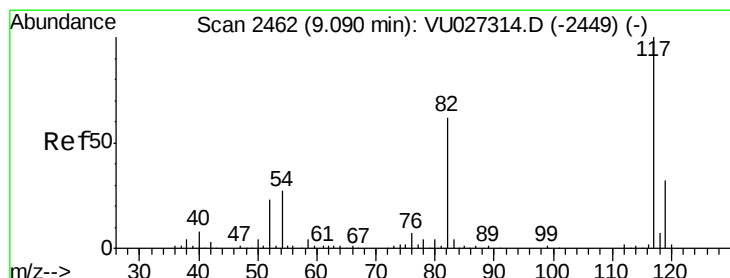
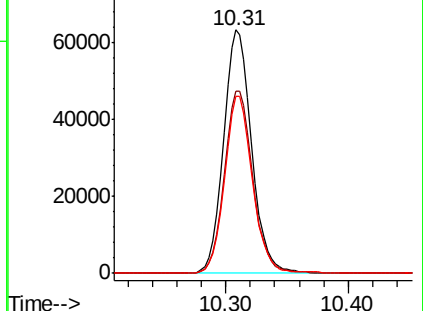
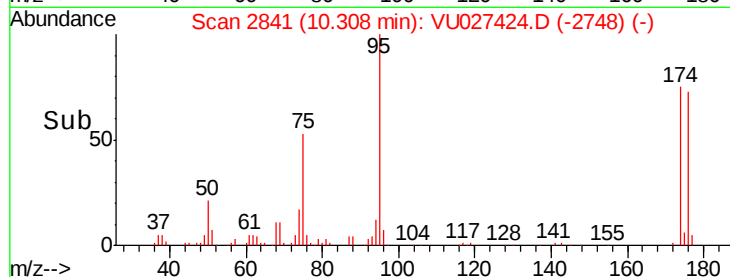
176 72.7 0.0 140.8



Abundance Ion 94.90 (94.60 to 95.60): VU027314.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU027314.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU027314.D (-2828) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VU027424.D

Acq: 04 Oct 2018 21:33

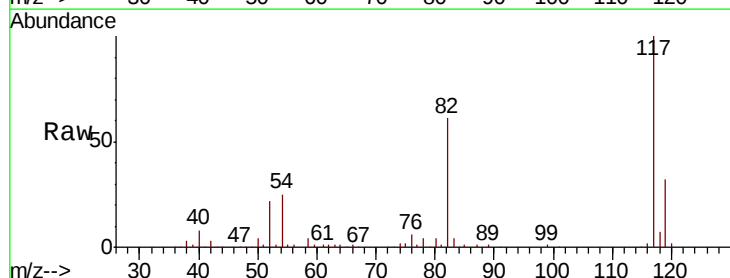
Tgt Ion: 117 Resp: 179248

Ion Ratio Lower Upper

117 100

82 60.7 49.2 73.8

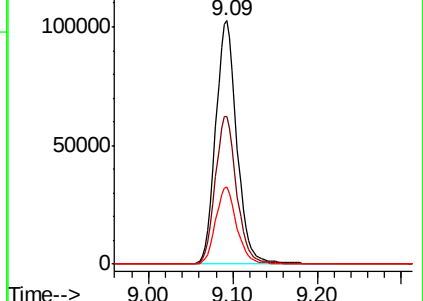
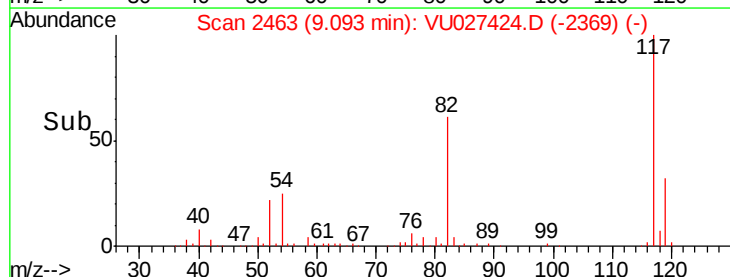
119 31.7 25.7 38.5

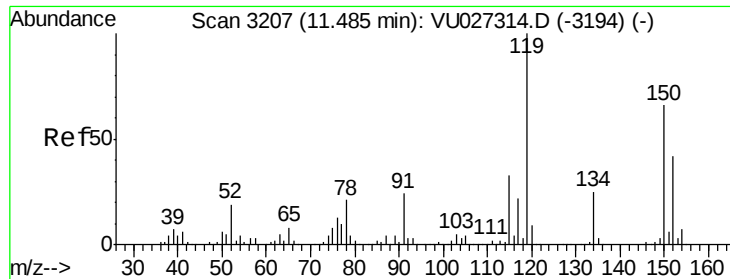


Abundance Ion 116.90 (116.60 to 117.60): VU027314.D (-2449) (-)

Ion 82.00 (81.70 to 82.70): VU027314.D (-2449) (-)

Ion 118.90 (118.60 to 119.60): VU027314.D (-2449) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU027424.D

Acq: 04 Oct 2018 21:33

Instrument :

MSVOA\_U

ClientSampleId :

MW-9

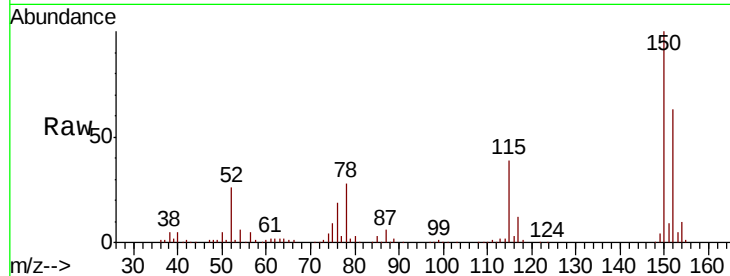
Tgt Ion: 152 Resp: 95536

Ion Ratio Lower Upper

152 100

115 61.0 43.4 130.2

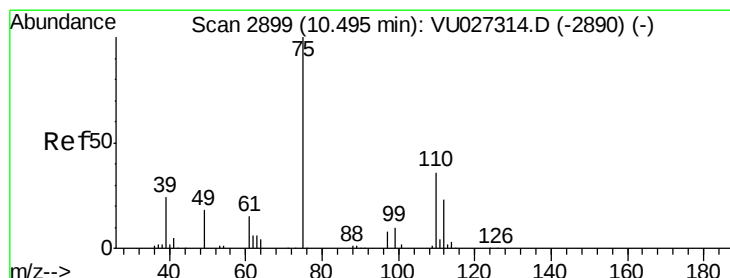
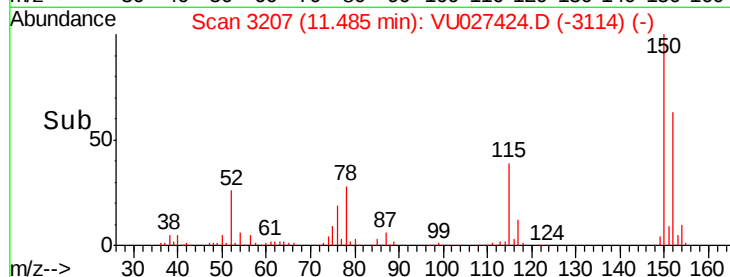
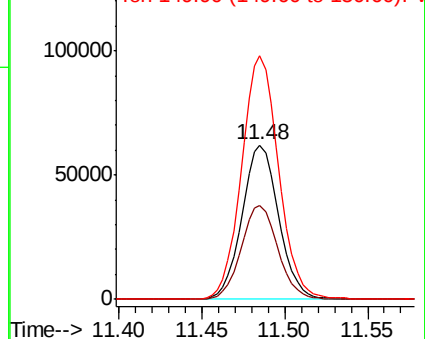
150 159.1 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 21.828 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU027424.D

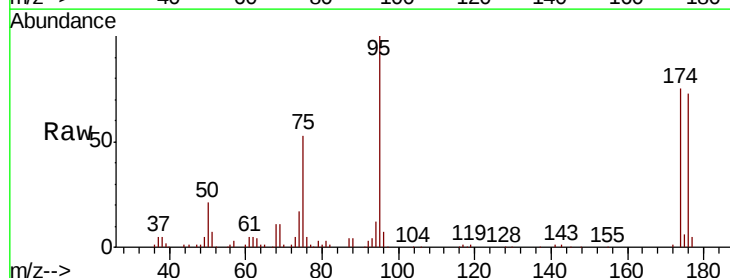
Acq: 04 Oct 2018 21:33

Tgt Ion: 75 Resp: 54057

Ion Ratio Lower Upper

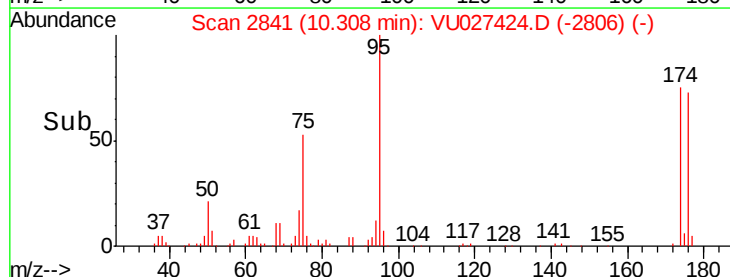
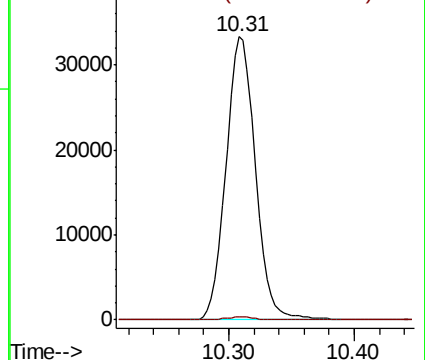
75 100

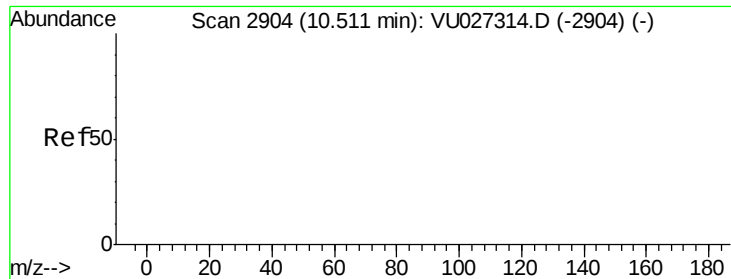
77 1.0 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#81

trans-1,4-Dichloro-2-butene

Concen: 57.126 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU027424.D

Acq: 04 Oct 2018 21:33

Instrument :

MSVOA\_U

ClientSampleId :

MW-9

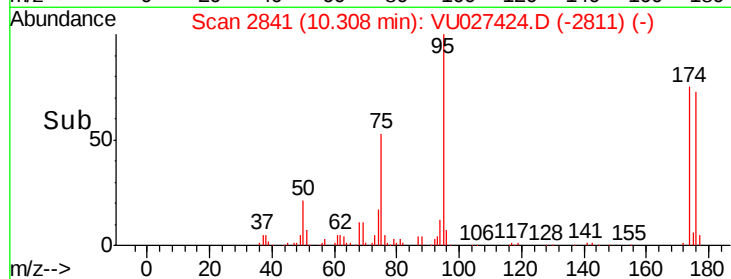
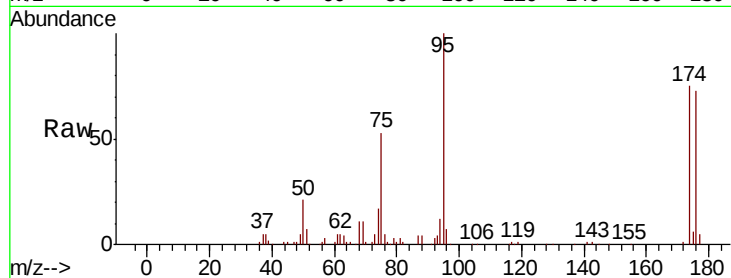
Tgt Ion: 75 Resp: 54057

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

