

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010519\  
 Data File : VU029026.D  
 Acq On : 04 Jan 2019 14:39  
 Operator : MD/SY  
 Sample : K1056-02  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-5

Quant Time: Jan 05 03:44:54 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U010319W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 04 02:22:53 2019  
 Response via : Initial Calibration

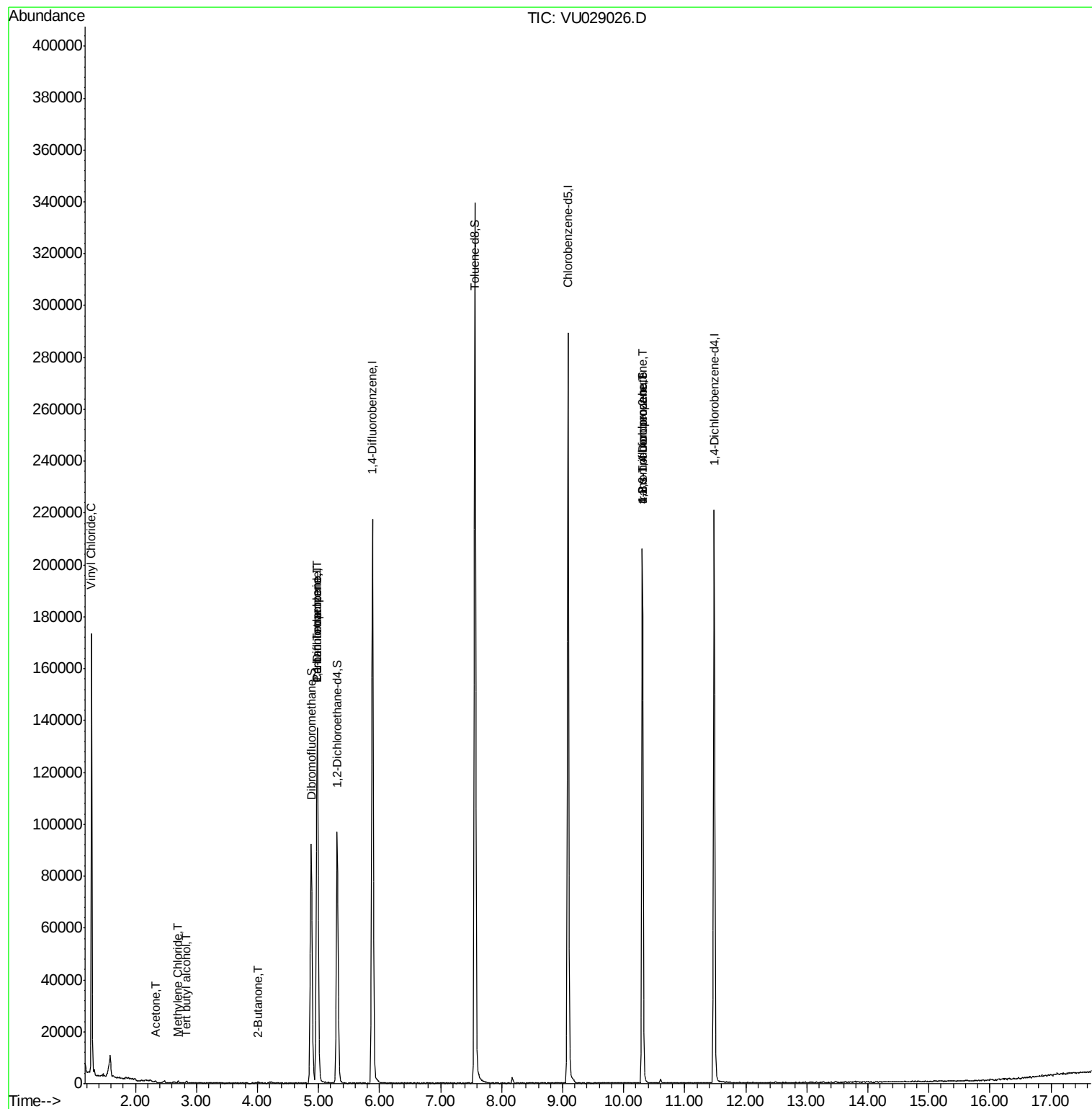
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 4.98  | 168  | 112667   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 5.88  | 114  | 190638   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 9.09  | 117  | 166993   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 11.48 | 152  | 60692    | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 5.30  | 65   | 73275    | 52.61     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 105.22% |          |
| 35) Dibromofluoromethane       | 4.88  | 113  | 64662    | 52.33     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 104.66% |          |
| 50) Toluene-d8                 | 7.56  | 98   | 237792   | 48.74     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 97.48%  |          |
| 62) 4-Bromofluorobenzene       | 10.30 | 95   | 70237    | 40.06     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 80.12%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 4) Vinyl Chloride              | 1.28  | 62   | 1390     | 0.844     | ug/l #  | 42       |
| 5) Bromomethane                | 1.61  | 94   | 338      | Below Cal |         | 96       |
| 11) Tert butyl alcohol         | 2.83  | 59   | 175      | 0.494     | ug/l #  | 73       |
| 16) Acetone                    | 2.33  | 43   | 571      | 0.651     | ug/l    | 96       |
| 17) Carbon Disulfide           | 2.48  | 76   | 460      | Below Cal | #       | 75       |
| 20) Methylene Chloride         | 2.69  | 84   | 386      | 0.259     | ug/l #  | 84       |
| 25) 2-Butanone                 | 4.00  | 43   | 251      | 0.212     | ug/l #  | 47       |
| 31) Cyclohexane                | 4.99  | 56   | 1952     | Below Cal | #       | 1        |
| 36) 1,1-Dichloropropene        | 4.98  | 75   | 8456     | 4.438     | ug/l #  | 43       |
| 38) Carbon Tetrachloride       | 4.98  | 117  | 9889     | 6.222     | ug/l #  | 17       |
| 76) 1,2,3-Trichloropropane     | 10.30 | 75   | 33097    | 22.257    | ug/l #  | 35       |
| 81) trans-1,4-Dichloro-2-buten | 10.30 | 75   | 33097    | 57.401    | ug/l #  | 100      |

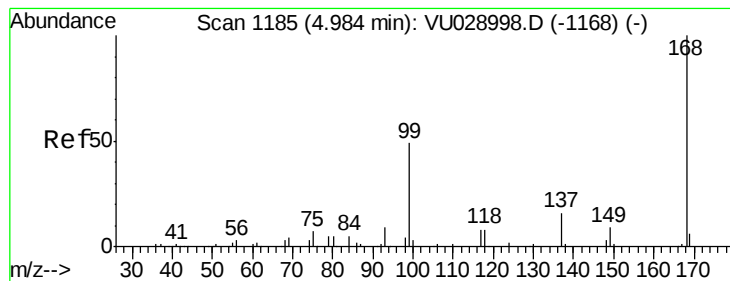
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU010519\  
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MSVOA\_U  
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STORAGE-BLANK-WATER-REF-5

Quant Time: Jan 05 03:44:54 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\82U010319W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 04 02:22:53 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VU029026.D

Acq: 04 Jan 2019 14:39

Instrument :

MSVOA\_U

ClientSampleId :

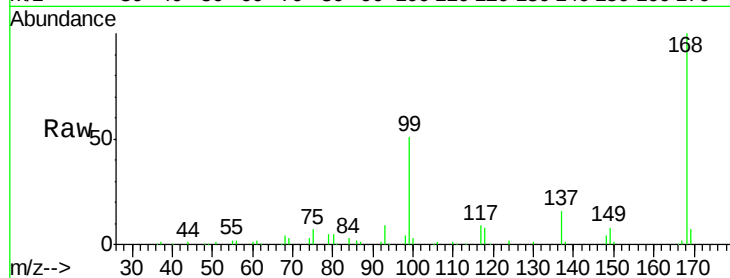
STORAGE-BLANK-WATER-REF-5

Tot Ion:168 Resp: 112667

Ion Ratio Lower Upper

168 100

99 51.4 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): VU028998.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028998.D (-1168) (-)

4.98

50000

40000

30000

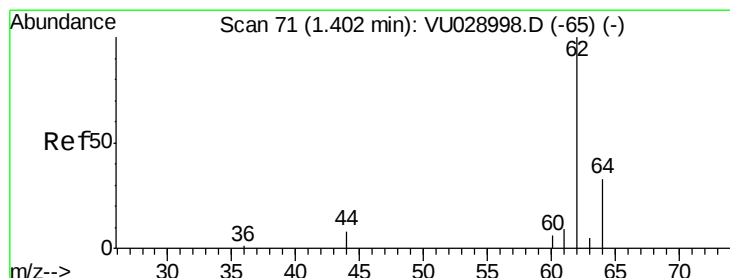
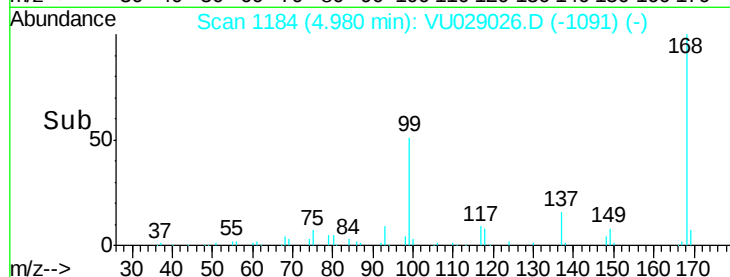
20000

10000

0

4.90 4.95 5.00 5.05

Time-->



#4

Vinyl Chloride

Concen: 0.844 ug/l

RT: 1.28 min Scan# 34

Delta R.T. -0.12 min

Lab File: VU029026.D

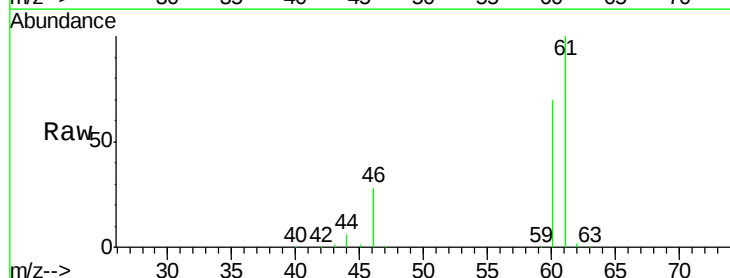
Acq: 04 Jan 2019 14:39

Tgt Ion: 62 Resp: 1390

Ion Ratio Lower Upper

62 100

64 0.0 25.9 38.9#



Abundance Ion 61.90 (61.60 to 62.60): VU028998.D (-65) (-)

Ion 63.90 (63.60 to 64.60): VU028998.D (-65) (-)

1.28

1500

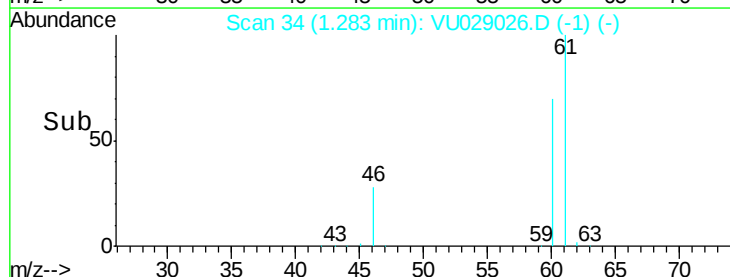
1000

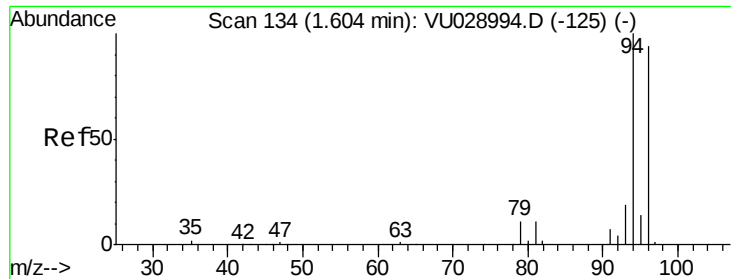
500

0

1.26 1.28 1.30 1.32

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 136

Delta R.T. 0.01 min

Lab File: VU029026.D

Acq: 04 Jan 2019 14:39

Instrument :

MSVOA\_U

ClientSampleId :

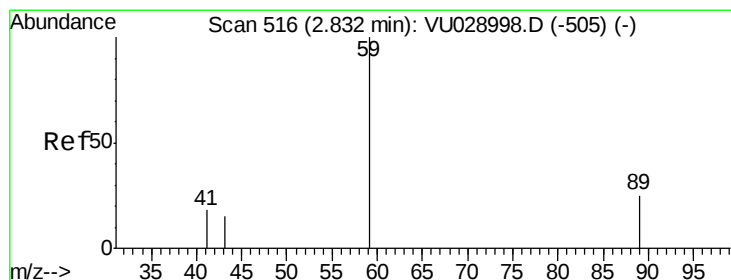
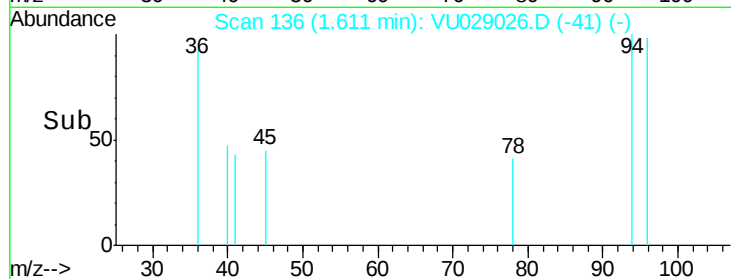
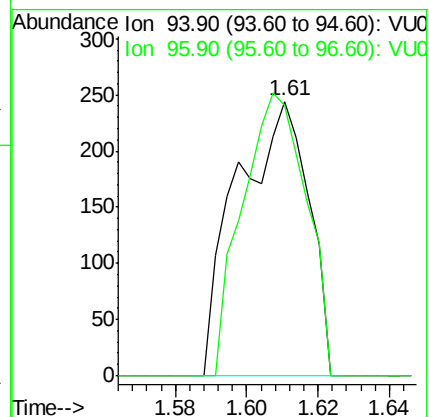
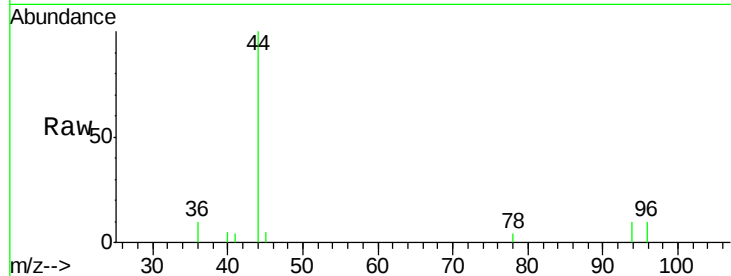
STORAGE-BLANK-WATER-REF-5

Tot Ion: 94 Resp: 338

Ion Ratio Lower Upper

94 100

96 98.4 75.5 113.3



#11

Tert butyl alcohol

Concen: 0.494 ug/l

RT: 2.83 min Scan# 514

Delta R.T. -0.01 min

Lab File: VU029026.D

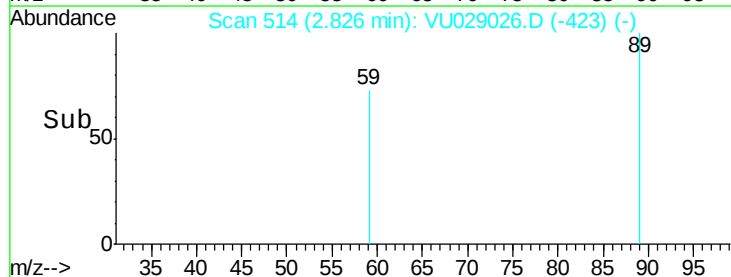
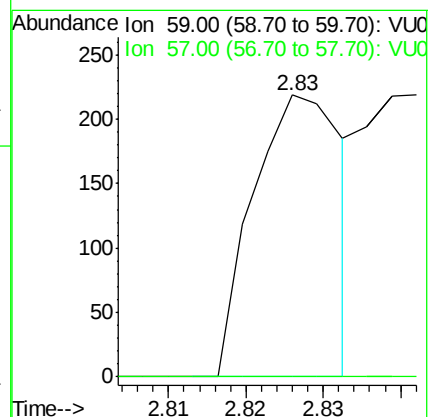
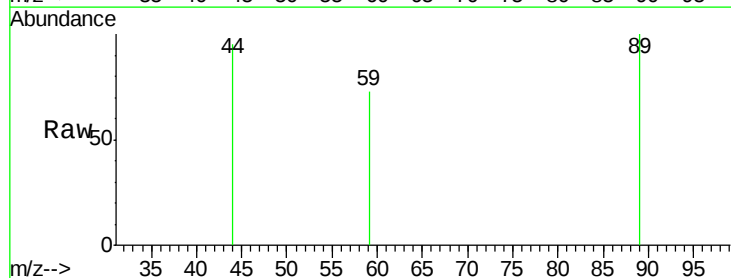
Acq: 04 Jan 2019 14:39

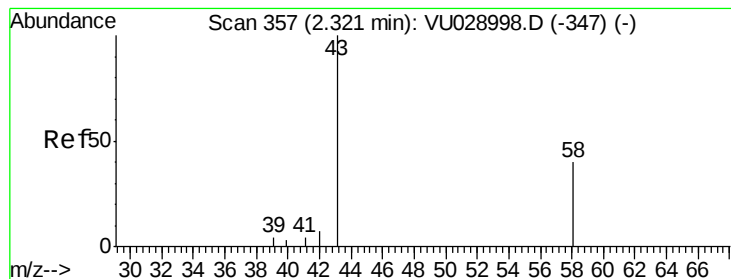
Tgt Ion: 59 Resp: 175

Ion Ratio Lower Upper

59 100

57 0.0 7.9 11.9#





#16

Acetone

Concen: 0.651 ug/l

RT: 2.33 min Scan# 359

Delta R.T. 0.01 min

Lab File: VU029026.D

Acq: 04 Jan 2019 14:39

Instrument :

MSVOA\_U

ClientSampleId :

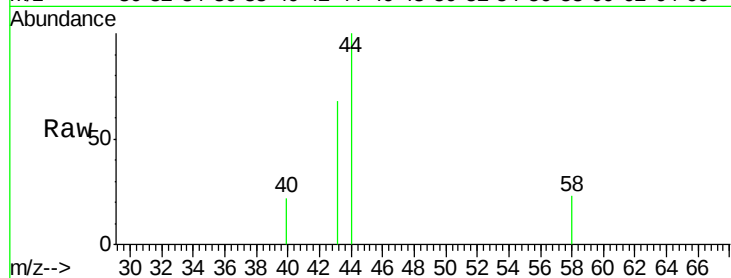
STORAGE-BLANK-WATER-REF-5

Tot Ion: 43 Resp: 571

Ion Ratio Lower Upper

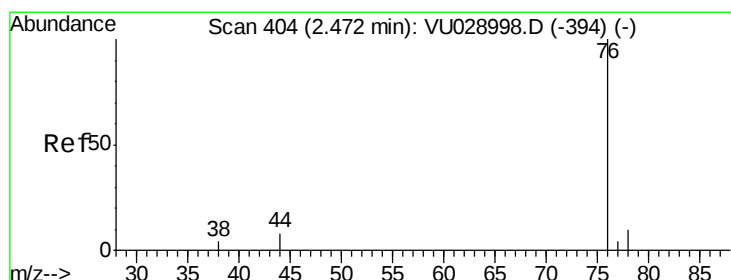
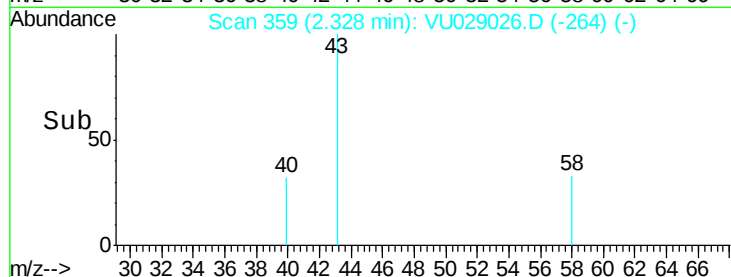
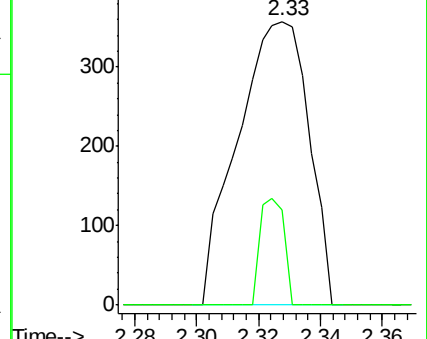
43 100

58 33.3 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.48 min Scan# 405

Delta R.T. 0.00 min

Lab File: VU029026.D

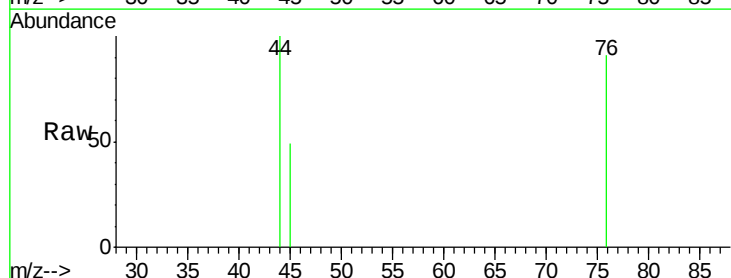
Acq: 04 Jan 2019 14:39

Tgt Ion: 76 Resp: 460

Ion Ratio Lower Upper

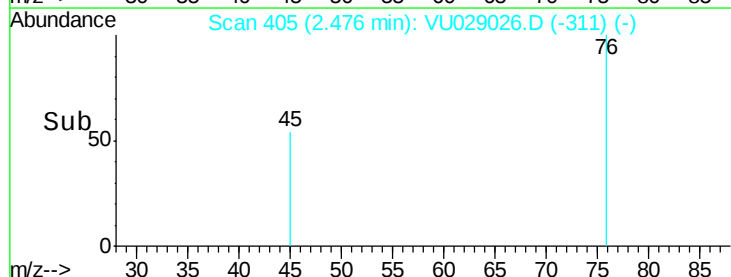
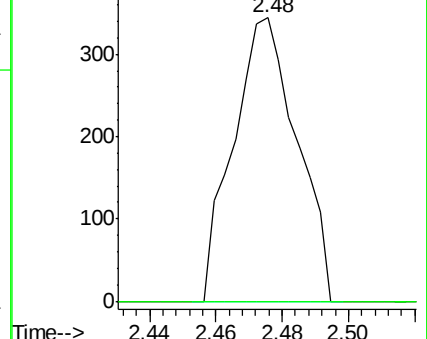
76 100

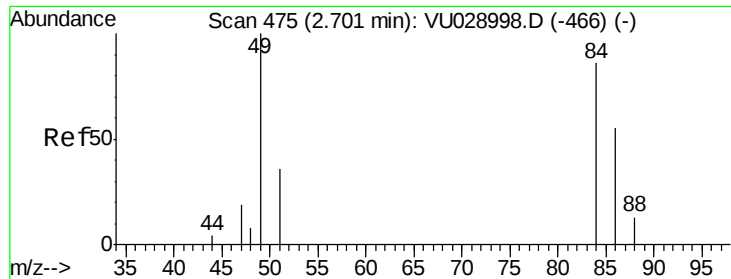
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

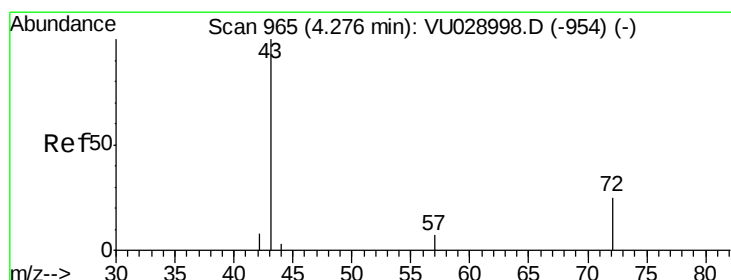
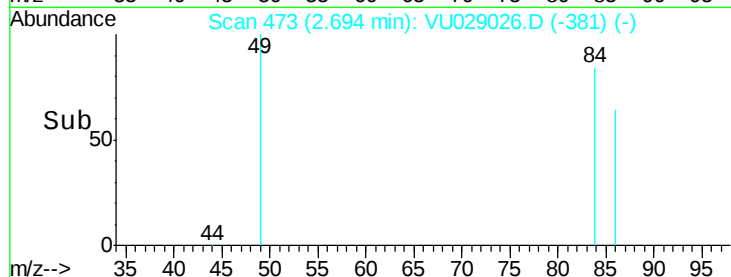
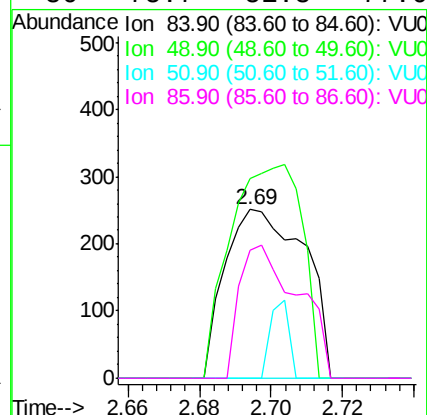
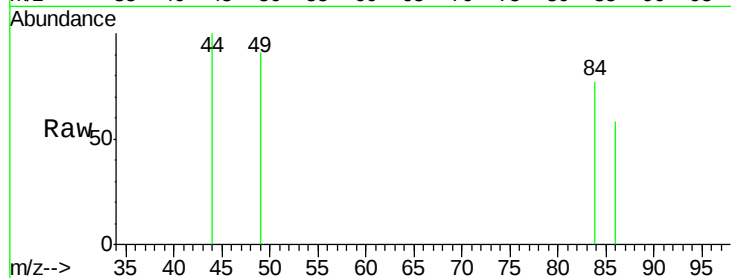




#20  
Methvlene Chloride  
Concen: 0.259 ug/l  
RT: 2.69 min Scan# 473  
Delta R.T. -0.00 min  
Lab File: VU029026.D  
Acq: 04 Jan 2019 14:39

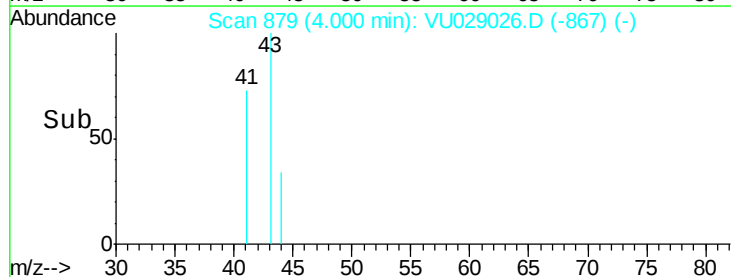
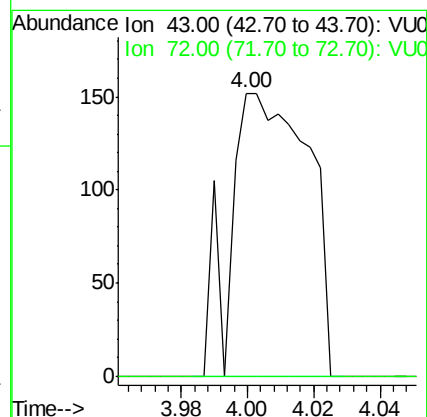
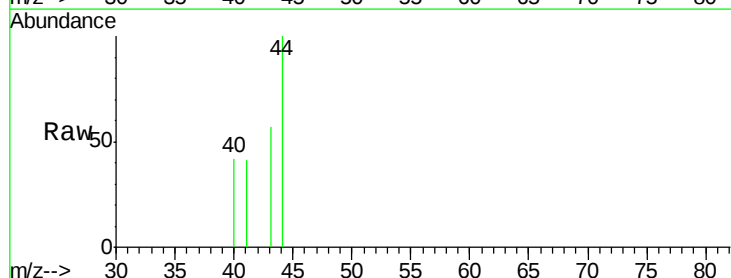
Instrument :  
MSVOA\_U  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-5

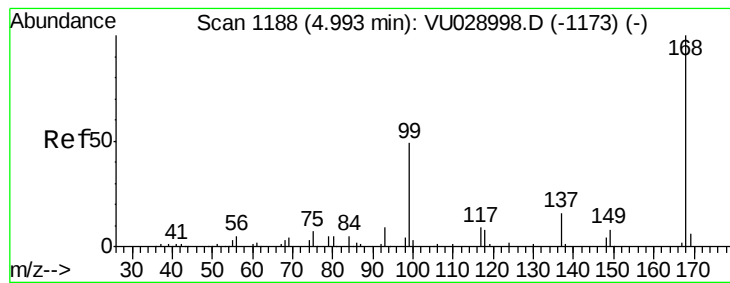
Tot Ion: 84 Resp: 386  
Ion Ratio Lower Upper  
84 100  
49 118.7 91.9 137.9  
51 0.0 29.2 43.8#  
86 75.7 51.8 77.6



#25  
2-Butanone  
Concen: 0.212 ug/l  
RT: 4.00 min Scan# 879  
Delta R.T. -0.26 min  
Lab File: VU029026.D  
Acq: 04 Jan 2019 14:39

Tgt Ion: 43 Resp: 251  
Ion Ratio Lower Upper  
43 100  
72 0.0 22.6 33.8#

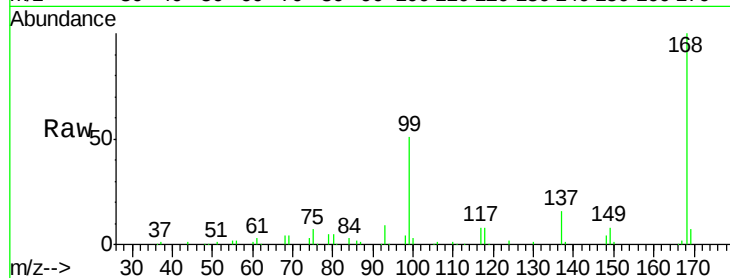




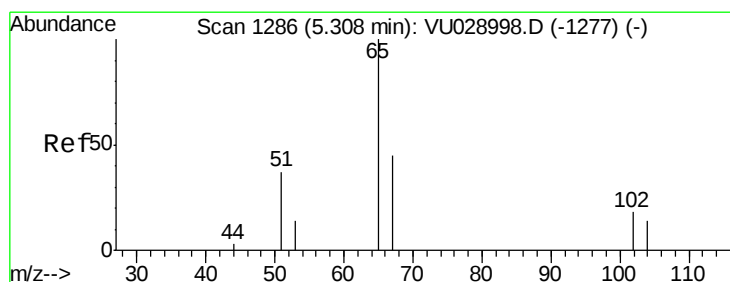
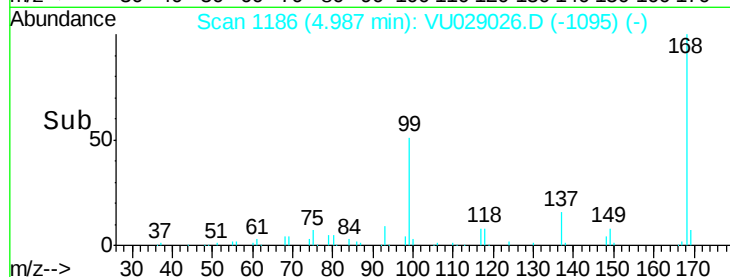
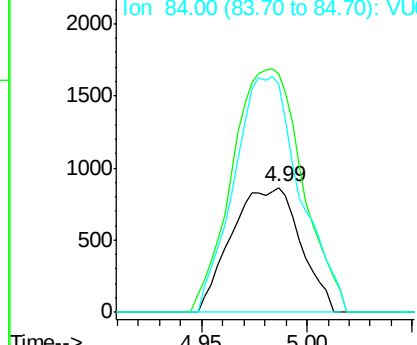
#31  
Cyclohexane  
Concen: Below Cal  
RT: 4.99 min Scan# 1186  
Delta R.T. -0.01 min  
Lab File: VU029026.D  
Acq: 04 Jan 2019 14:39

Instrument :  
MSVOA\_U  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-5

Tot Ion: 56 Resp: 1952  
Ion Ratio Lower Upper  
56 100  
69 191.7 26.7 40.1#  
84 183.3 65.7 98.5#

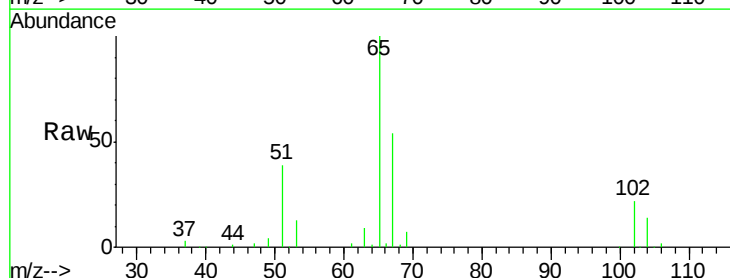


Abundance Ion 56.00 (55.70 to 56.70): VU0  
Ion 69.00 (68.70 to 69.70): VU0  
Ion 84.00 (83.70 to 84.70): VU0

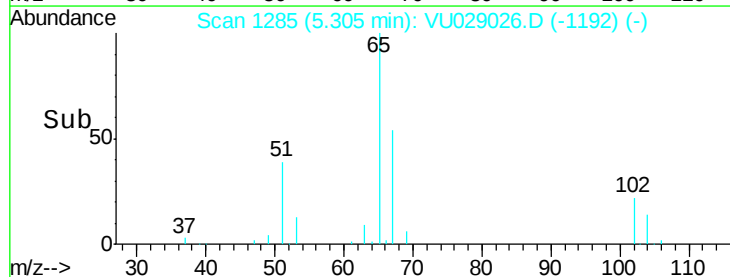
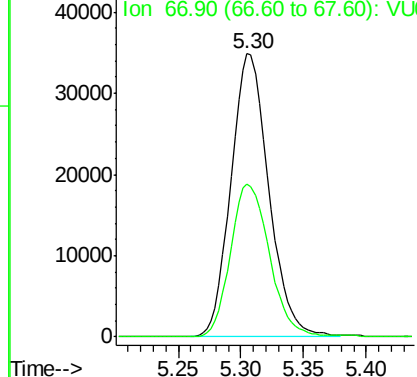


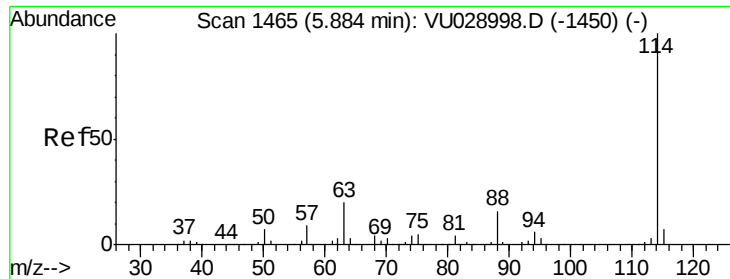
#33  
1,2-Dichloroethane-d4  
Concen: 52.610 ug/l  
RT: 5.30 min Scan# 1285  
Delta R.T. 0.00 min  
Lab File: VU029026.D  
Acq: 04 Jan 2019 14:39

Tgt Ion: 65 Resp: 73275  
Ion Ratio Lower Upper  
65 100  
67 55.4 0.0 111.0



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

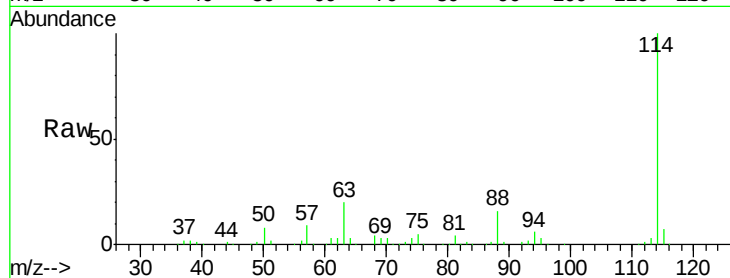




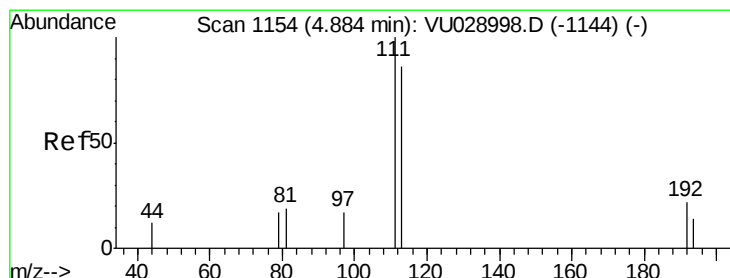
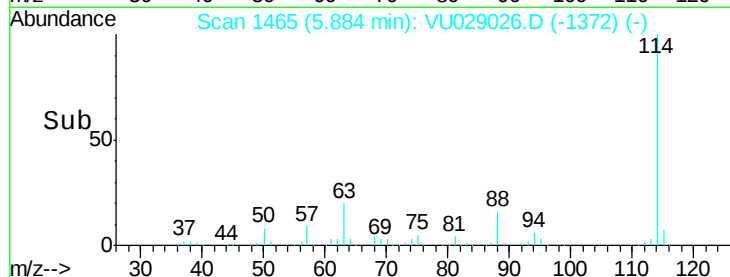
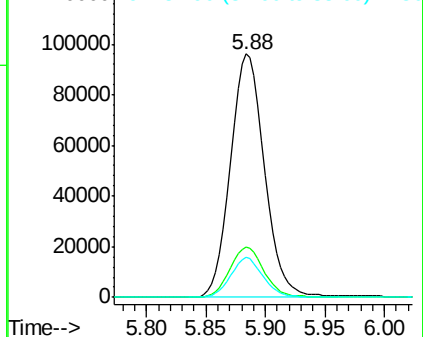
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 5.88 min Scan# 1465  
Delta R.T. 0.00 min  
Lab File: VU029026.D  
Acq: 04 Jan 2019 14:39

Instrument :  
MSVOA\_U  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-5

Tot Ion:114 Resp: 190638  
Ion Ratio Lower Upper  
114 100  
63 20.5 0.0 40.2  
88 16.4 0.0 30.4

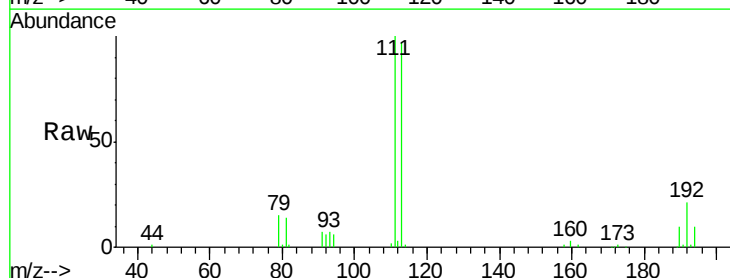


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VU0  
Ion 87.90 (87.60 to 88.60): VU0

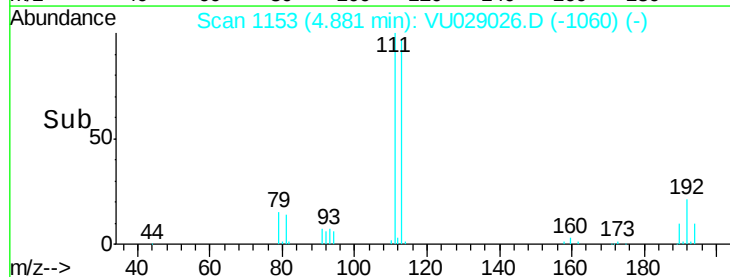
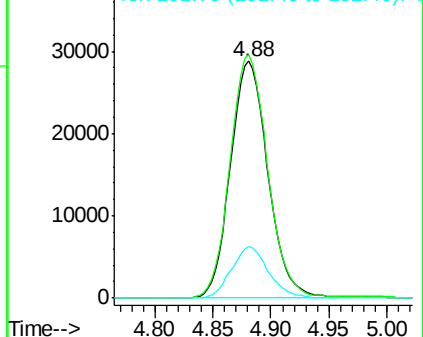


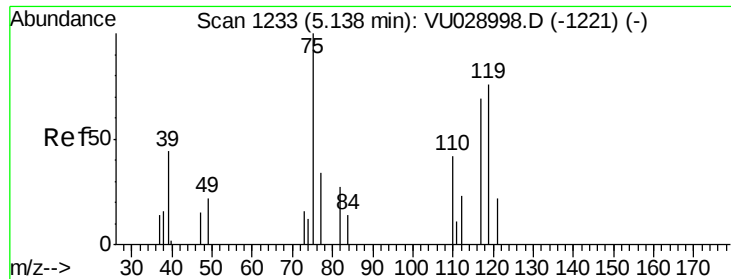
#35  
Dibromofluoromethane  
Concen: 52.325 ug/l  
RT: 4.88 min Scan# 1153  
Delta R.T. 0.00 min  
Lab File: VU029026.D  
Acq: 04 Jan 2019 14:39

Tgt Ion:113 Resp: 64662  
Ion Ratio Lower Upper  
113 100  
111 103.1 81.4 122.2  
192 21.5 16.8 25.2



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

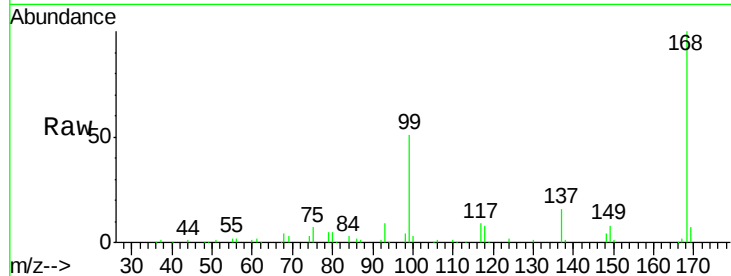




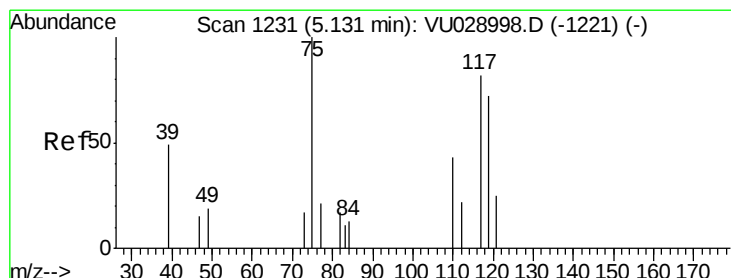
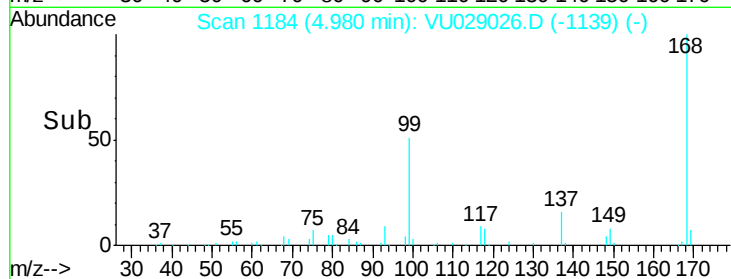
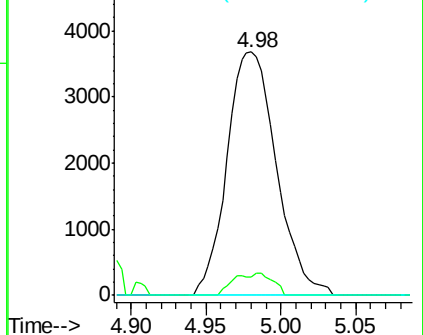
#36  
 1,1-Dichloropropene  
 Concen: 4.438 ug/l  
 RT: 4.98 min Scan# 1184  
 Delta R.T. -0.15 min  
 Lab File: VU029026.D  
 Acq: 04 Jan 2019 14:39

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 STORAGE-BLANK-WATER-REF-5

Tot Ion: 75 Resp: 8456  
 Ion Ratio Lower Upper  
 75 100  
 110 3.1 18.4 55.4#  
 77 0.0 25.1 37.7#

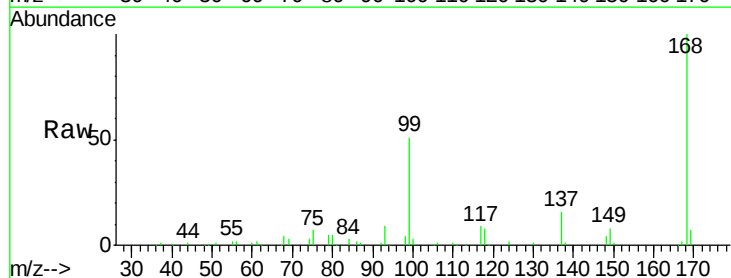


Abundance Ion 74.90 (74.60 to 75.60): VU028998.D (-1221) (-)  
 Ion 109.90 (109.60 to 110.60): VU028998.D (-1221) (-)  
 Ion 76.90 (76.60 to 77.60): VU028998.D (-1221) (-)

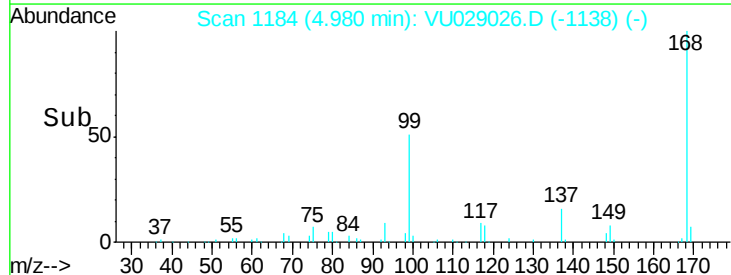
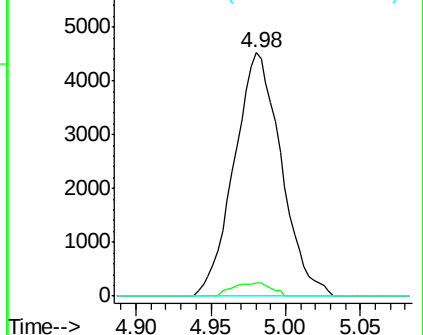


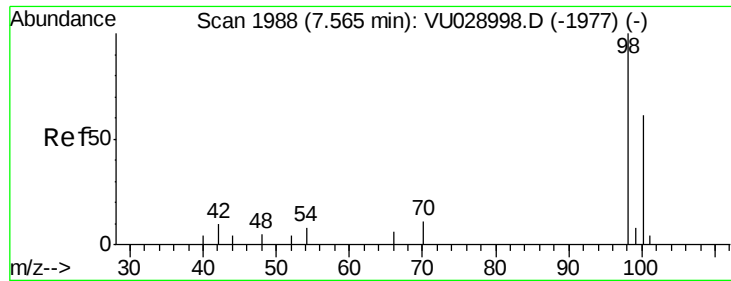
#38  
 Carbon Tetrachloride  
 Concen: 6.222 ug/l  
 RT: 4.98 min Scan# 1184  
 Delta R.T. -0.15 min  
 Lab File: VU029026.D  
 Acq: 04 Jan 2019 14:39

Tgt Ion: 117 Resp: 9889  
 Ion Ratio Lower Upper  
 117 100  
 119 5.3 74.6 111.8#  
 121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): VU028998.D (-1221) (-)  
 Ion 118.80 (118.50 to 119.50): VU028998.D (-1221) (-)  
 Ion 120.80 (120.50 to 121.50): VU028998.D (-1221) (-)





#50

Toluene-d8

Concen: 48.741 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VU029026.D

Acq: 04 Jan 2019 14:39

Instrument :

MSVOA\_U

ClientSampleId :

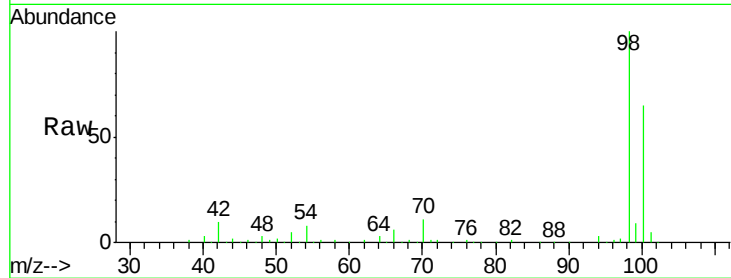
STORAGE-BLANK-WATER-REF-5

Tot Ion: 98 Resp: 237792

Ion Ratio Lower Upper

98 100

100 63.9 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VU028998.D (-1977) (-)

Ion 100.00 (99.70 to 100.70): VU028998.D (-1977) (-)

7.56

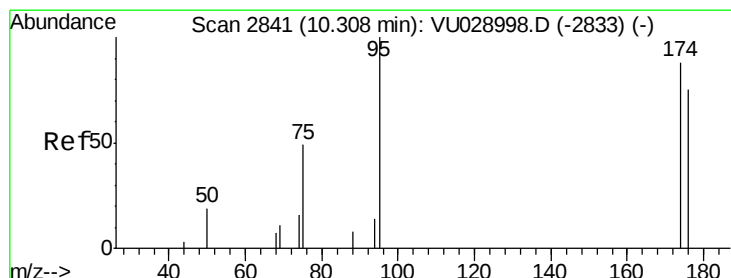
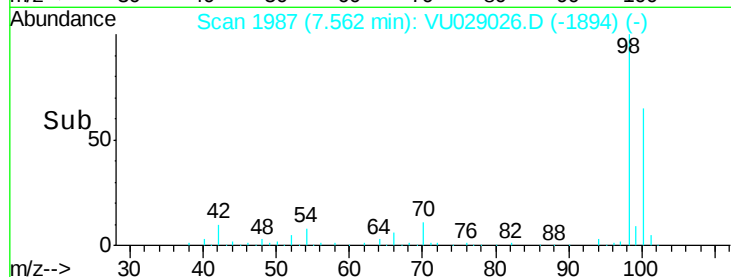
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 40.060 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VU029026.D

Acq: 04 Jan 2019 14:39

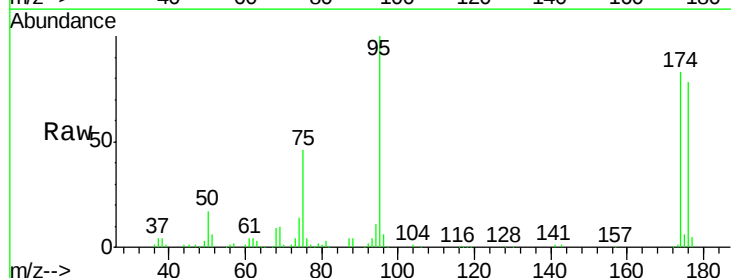
Tgt Ion: 95 Resp: 70237

Ion Ratio Lower Upper

95 100

174 85.6 0.0 170.6

176 81.5 0.0 165.0



Abundance Ion 94.90 (94.60 to 95.60): VU028998.D (-2833) (-)

Ion 173.80 (173.50 to 174.50): VU028998.D (-2833) (-)

Ion 175.80 (175.50 to 176.50): VU028998.D (-2833) (-)

10.30

60000

50000

40000

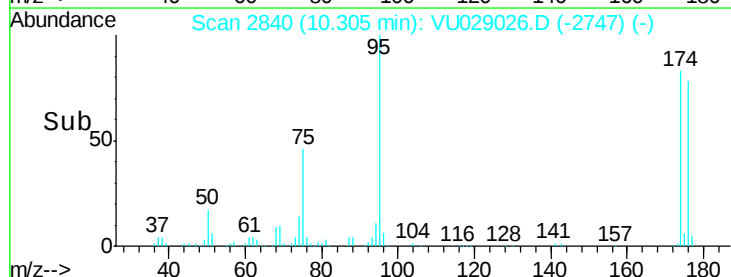
30000

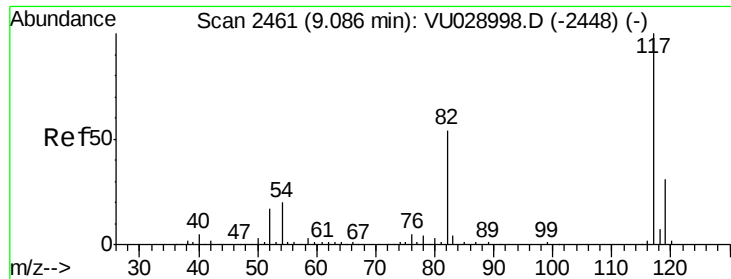
20000

10000

0

Time-->

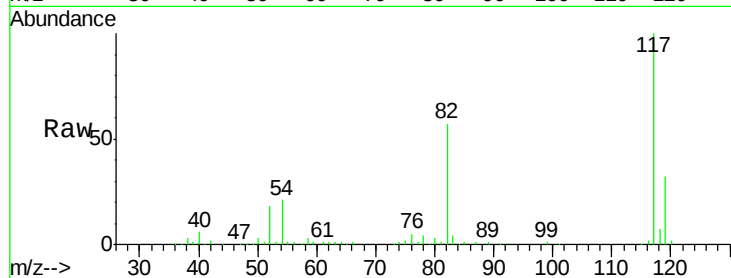




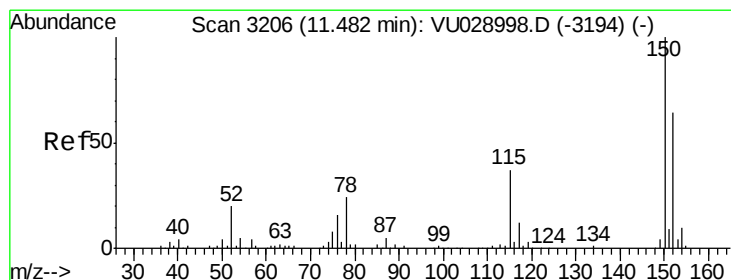
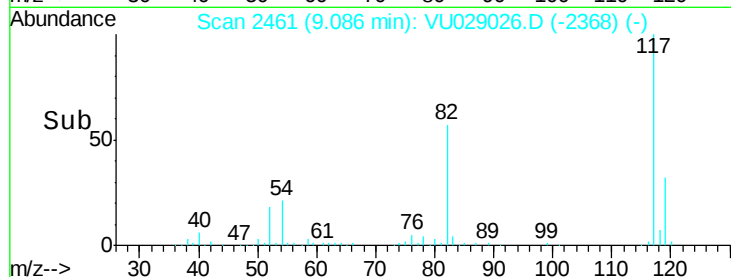
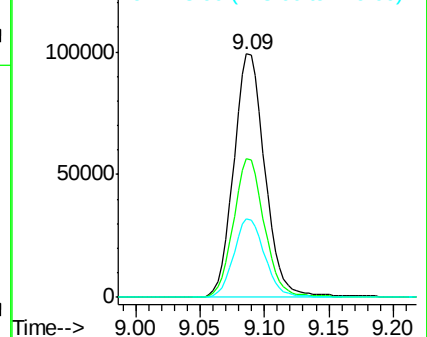
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.09 min Scan# 2461  
Delta R.T. 0.00 min  
Lab File: VU029026.D  
Acq: 04 Jan 2019 14:39

Instrument :  
MSVOA\_U  
ClientSampleId :  
STORAGE-BLANK-WATER-REF-5

Tot Ion:117 Resp: 166993  
Ion Ratio Lower Upper  
117 100  
82 57.1 43.9 65.9  
119 32.2 26.0 39.0

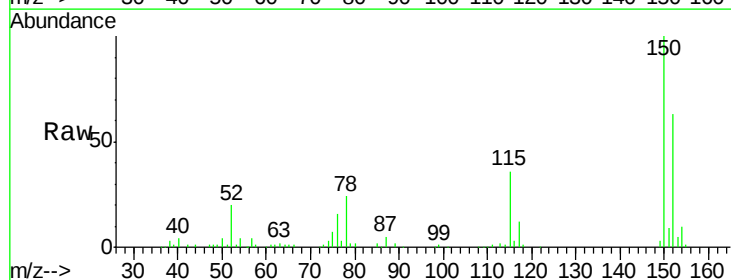


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

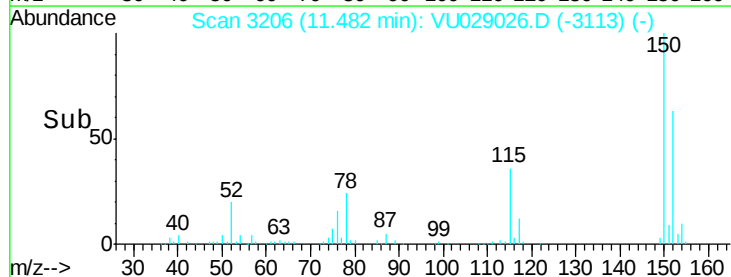
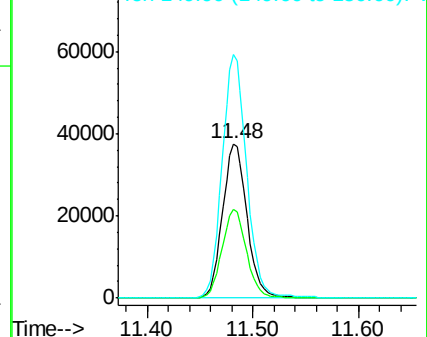


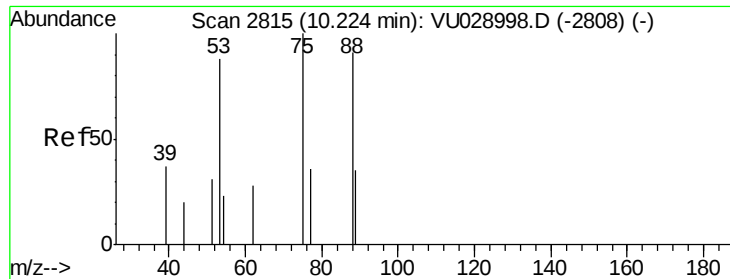
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.48 min Scan# 3206  
Delta R.T. 0.00 min  
Lab File: VU029026.D  
Acq: 04 Jan 2019 14:39

Tgt Ion:152 Resp: 60692  
Ion Ratio Lower Upper  
152 100  
115 57.1 40.1 120.3  
150 157.0 0.0 345.2



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: 22.257 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU029026.D

Acq: 04 Jan 2019 14:39

Instrument :

MSVOA\_U

ClientSampleId :

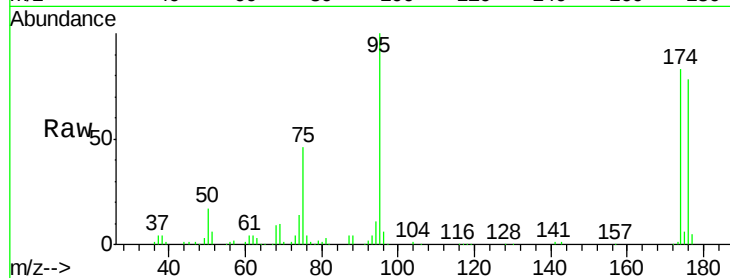
STORAGE-BLANK-WATER-REF-5

Tot Ion: 75 Resp: 33097

Ion Ratio Lower Upper

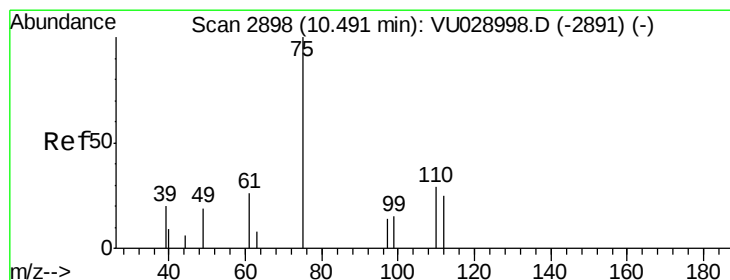
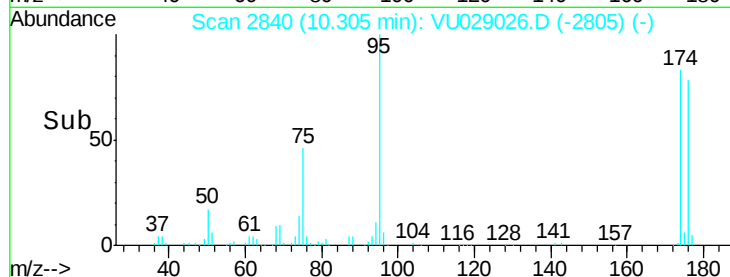
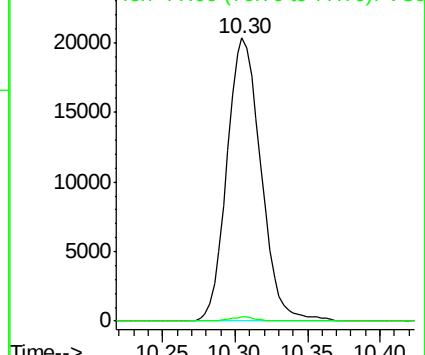
75 100

77 1.0 20.9 62.8#



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: 57.401 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU029026.D

Acq: 04 Jan 2019 14:39

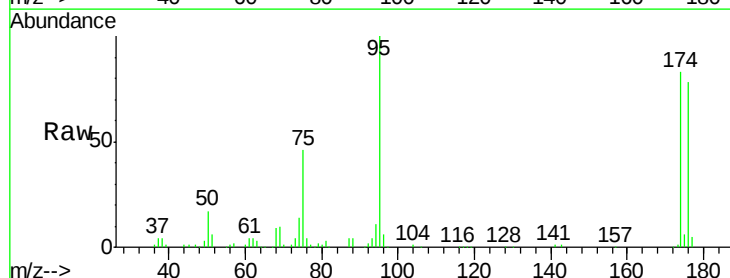
Tgt Ion: 75 Resp: 33097

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

