

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU061818\  
 Data File : VU024715.D  
 Acq On : 19 Jun 2018 01:54  
 Operator : MD/SY  
 Sample : J3535-01  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 SS036MW002-180613

Quant Time: Jun 19 05:19:52 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

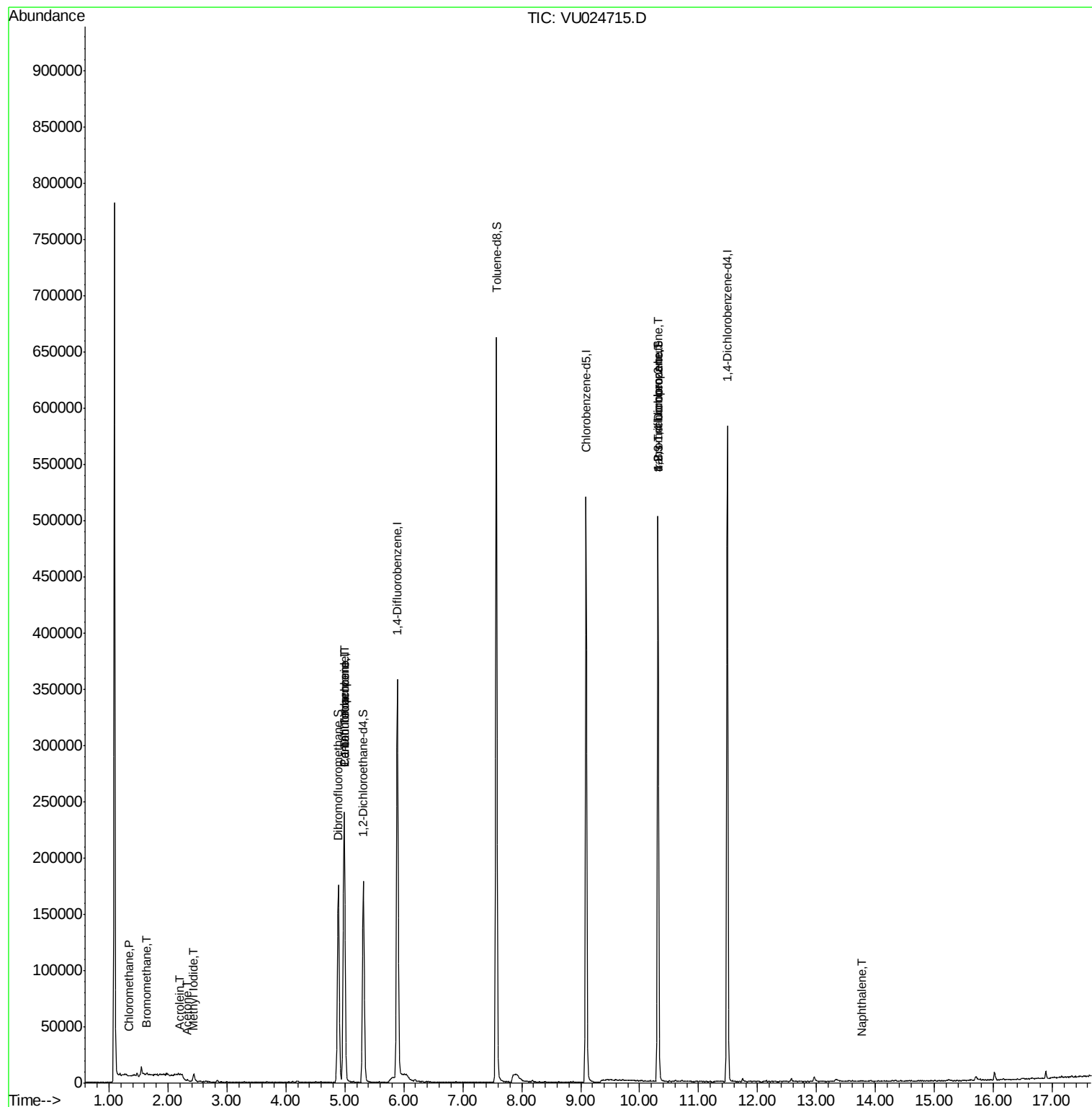
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene          | 4.99  | 168  | 192725   | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene        | 5.89  | 114  | 306913   | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5           | 9.09  | 117  | 286707   | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 11.49 | 152  | 151322   | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4      | 5.31  | 65   | 134642   | 42.79     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 85.58% |          |
| 35) Dibromofluoromethane       | 4.89  | 113  | 118636   | 46.58     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 93.16% |          |
| 50) Toluene-d8                 | 7.57  | 98   | 447243   | 48.14     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 96.28% |          |
| 62) 4-Bromofluorobenzene       | 10.31 | 95   | 156641   | 42.46     | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 84.92% |          |
| Target Compounds               |       |      |          |           |        |          |
|                                |       |      |          |           | Qvalue |          |
| 3) Chloromethane               | 1.33  | 50   | 736      | 0.299     | ug/l   | 99       |
| 5) Bromomethane                | 1.64  | 94   | 517      | 0.421     | ug/l   | 89       |
| 6) Chloroethane                | 1.70  | 64   | 51       | Below Cal | #      | 43       |
| 10) Methyl Iodide              | 2.42  | 142  | 262      | 5.404     | ug/l # | 40       |
| 13) Acrolein                   | 2.20  | 56   | 199      | 0.495     | ug/l # | 76       |
| 16) Acetone                    | 2.32  | 43   | 566      | 0.335     | ug/l # | 44       |
| 31) Cyclohexane                | 4.99  | 56   | 4093     | Below Cal | #      | 22       |
| 36) 1,1-Dichloropropene        | 4.99  | 75   | 13842    | 3.838     | ug/l # | 50       |
| 38) Carbon Tetrachloride       | 4.99  | 117  | 17889    | 4.511     | ug/l # | 17       |
| 76) 1,2,3-Trichloropropane     | 10.31 | 75   | 80247    | 24.087    | ug/l # | 35       |
| 81) trans-1,4-Dichloro-2-buten | 10.31 | 75   | 80247    | 55.747    | ug/l # | 100      |
| 95) Naphthalene                | 13.75 | 128  | 405      | 0.715     | ug/l # | 69       |

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

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Sample : J3535-01  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
SS036MW002-180613

Quant Time: Jun 19 05:19:52 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: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU024715.D

Acq: 19 Jun 2018 01:54

Instrument :

MSVOA\_U

ClientSampleId :

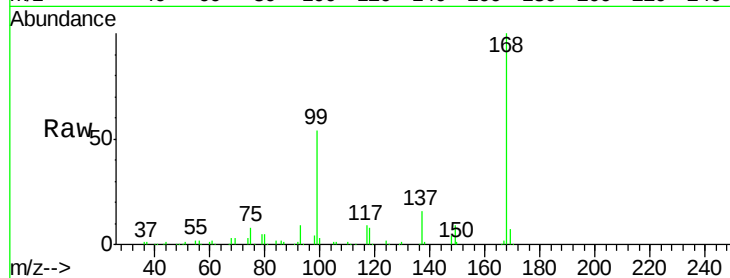
SS036MW002-180613

Tgt Ion:168 Resp: 192725

Ion Ratio Lower Upper

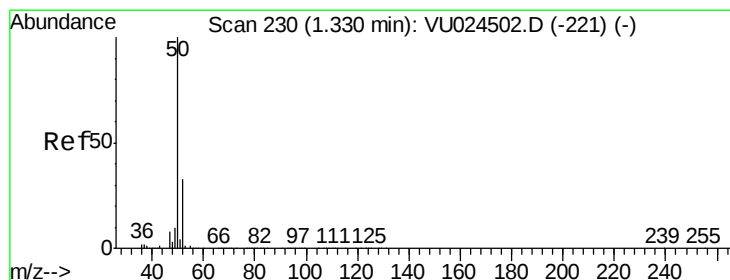
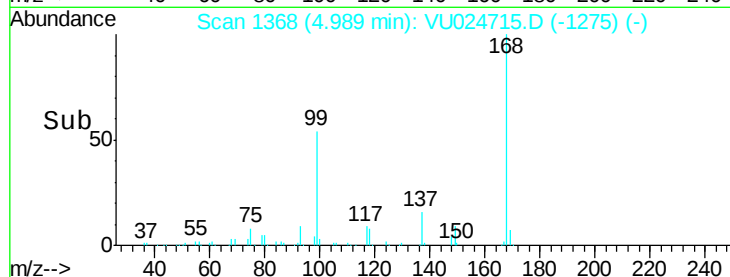
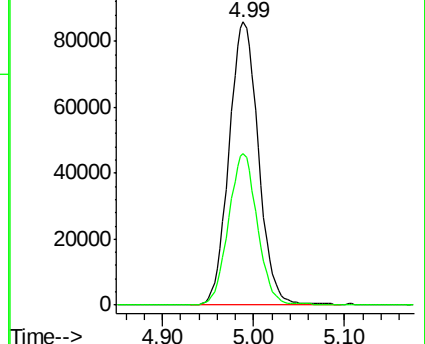
168 100

99 53.8 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024715.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU024715.D (-1275) (-)



#3

Chloromethane

Concen: 0.299 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024715.D

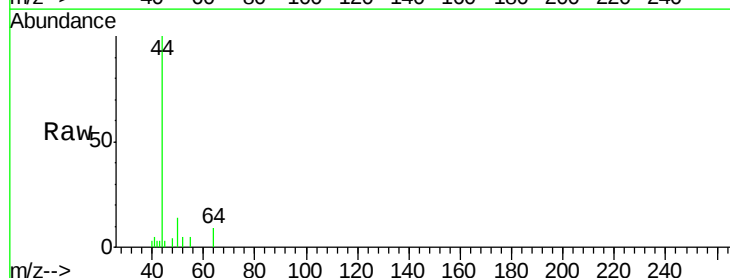
Acq: 19 Jun 2018 01:54

Tgt Ion: 50 Resp: 736

Ion Ratio Lower Upper

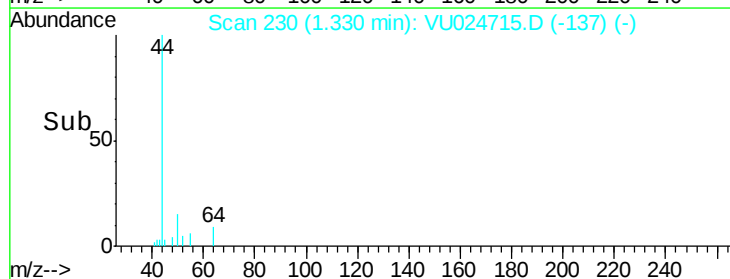
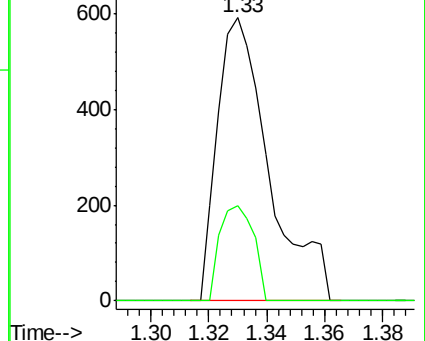
50 100

52 33.4 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024715.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU024715.D (-137) (-)





#5

Bromomethane

Concen: 0.421 ug/l

RT: 1.64 min Scan# 327

Delta R.T. 0.02 min

Lab File: VU024715.D

Acq: 19 Jun 2018 01:54

Instrument :

MSVOA\_U

ClientSampleId :

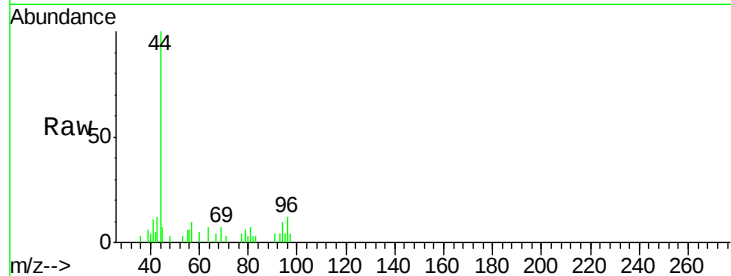
SS036MW002-180613

Tgt Ion: 94 Resp: 517

Ion Ratio Lower Upper

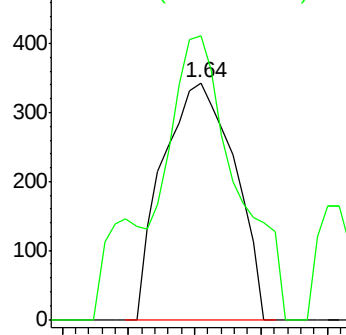
94 100

96 82.8 74.5 111.7

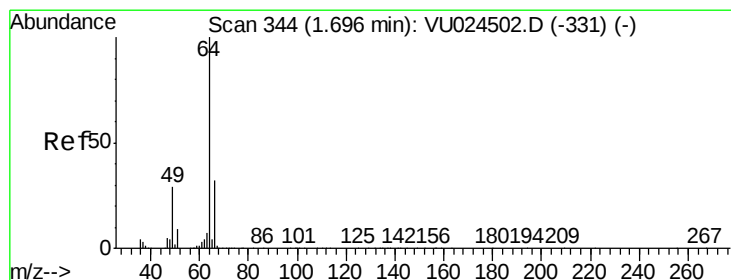
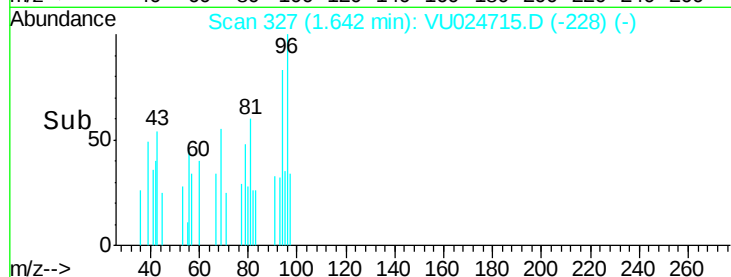


Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 346

Delta R.T. 0.01 min

Lab File: VU024715.D

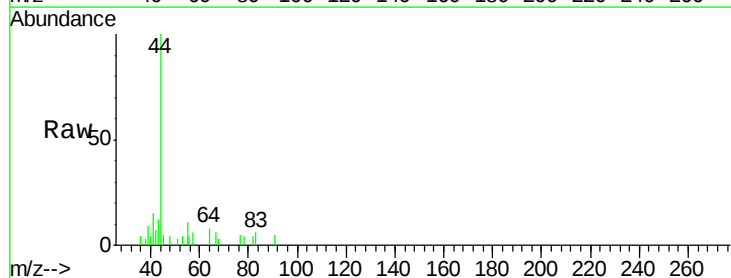
Acq: 19 Jun 2018 01:54

Tgt Ion: 64 Resp: 51

Ion Ratio Lower Upper

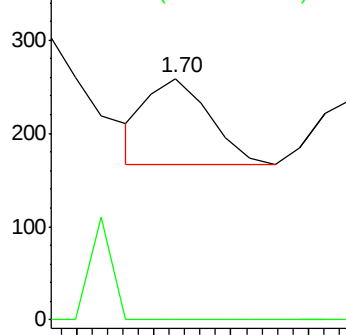
64 100

66 0.0 25.5 38.3#

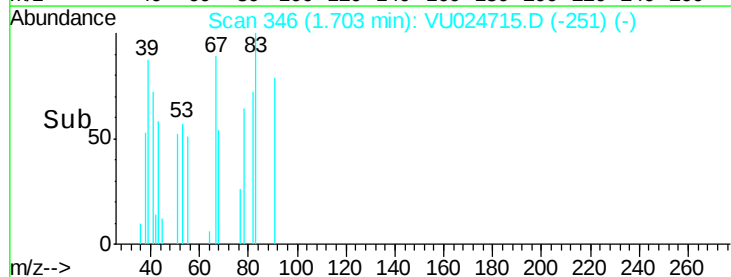


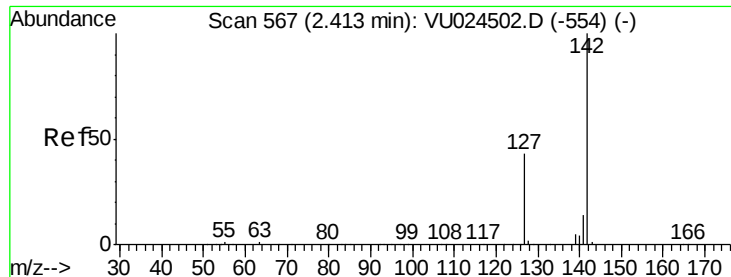
Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



Time-->

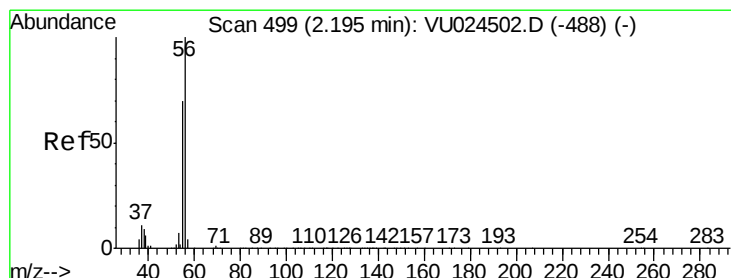
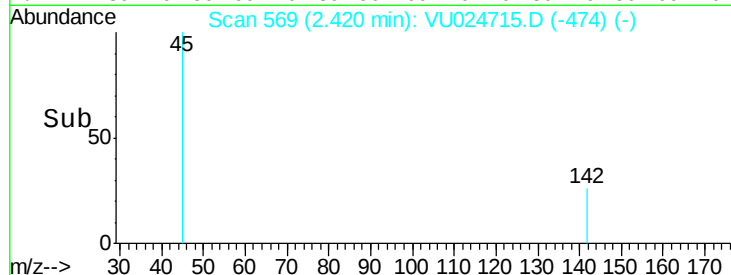
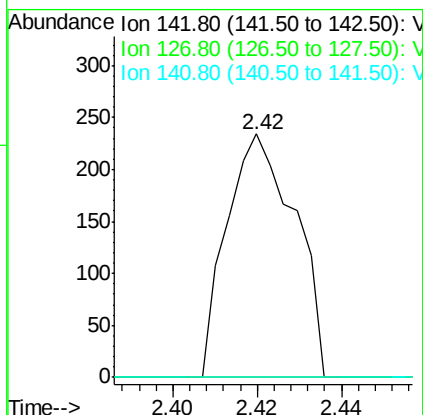
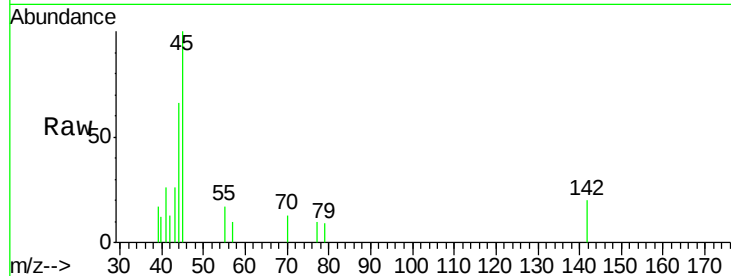




#10  
Methyl Iodide  
Concen: 5.404 ug/l  
RT: 2.42 min Scan# 569  
Delta R.T. 0.01 min  
Lab File: VU024715.D  
Acq: 19 Jun 2018 01:54

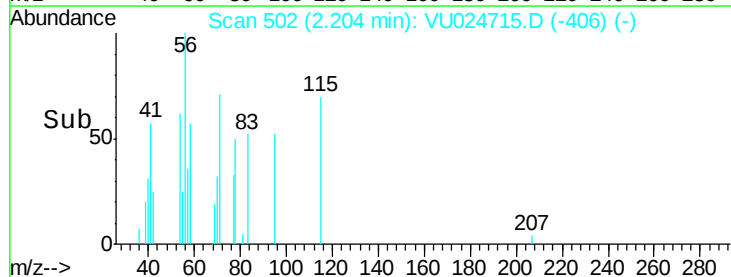
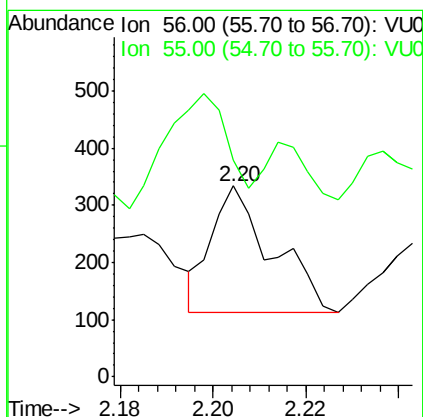
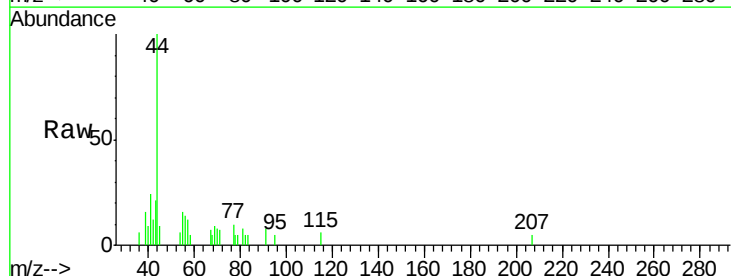
Instrument :  
MSVOA\_U  
ClientSampleId :  
SS036MW002-180613

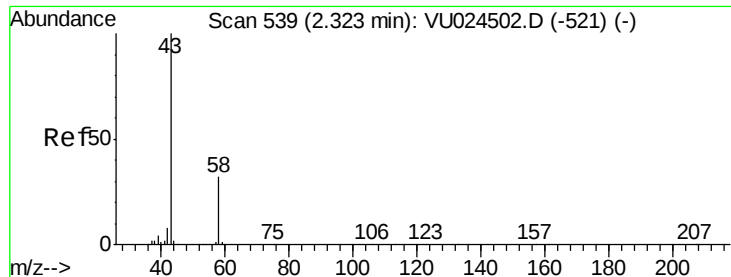
Tgt Ion:142 Resp: 262  
Ion Ratio Lower Upper  
142 100  
127 0.0 35.6 53.4#  
141 0.0 11.7 17.5#



#13  
Acrolein  
Concen: 0.495 ug/l  
RT: 2.20 min Scan# 502  
Delta R.T. 0.01 min  
Lab File: VU024715.D  
Acq: 19 Jun 2018 01:54

Tgt Ion: 56 Resp: 199  
Ion Ratio Lower Upper  
56 100  
55 93.5 58.4 87.6#





#16

Acetone

Concen: 0.335 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU024715.D

Acq: 19 Jun 2018 01:54

Instrument :

MSVOA\_U

ClientSampleId :

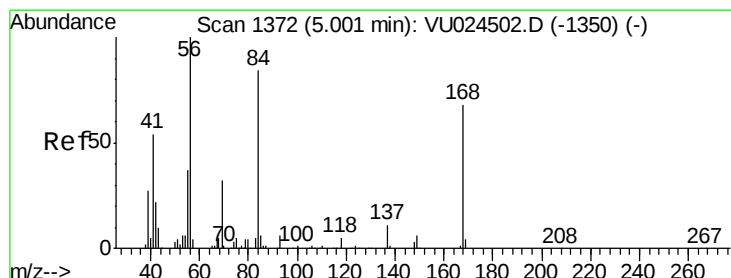
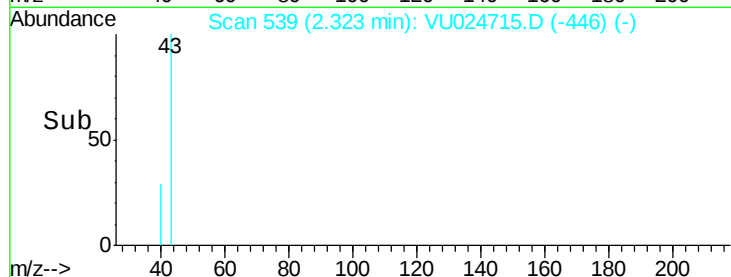
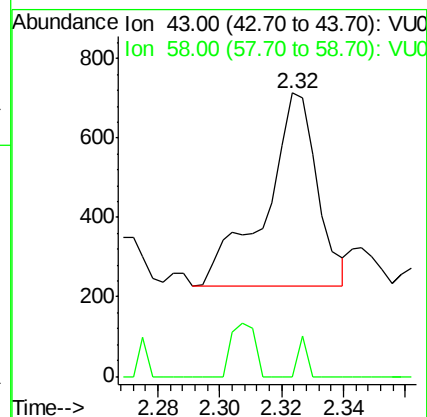
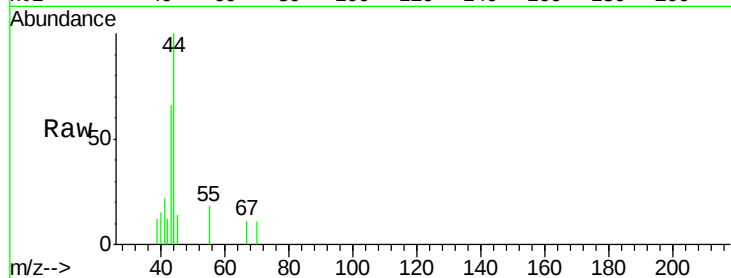
SS036MW002-180613

Tgt Ion: 43 Resp: 566

Ion Ratio Lower Upper

43 100

58 0.0 24.4 36.6#



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1367

Delta R.T. -0.02 min

Lab File: VU024715.D

Acq: 19 Jun 2018 01:54

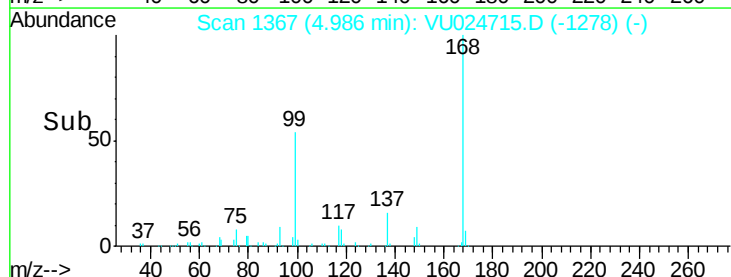
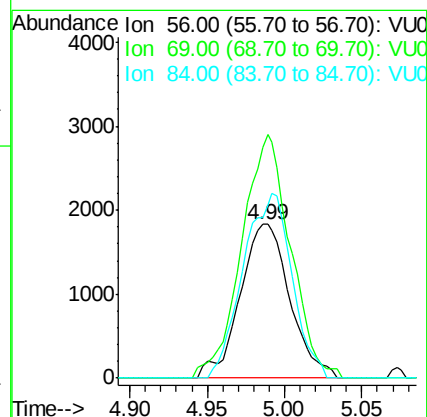
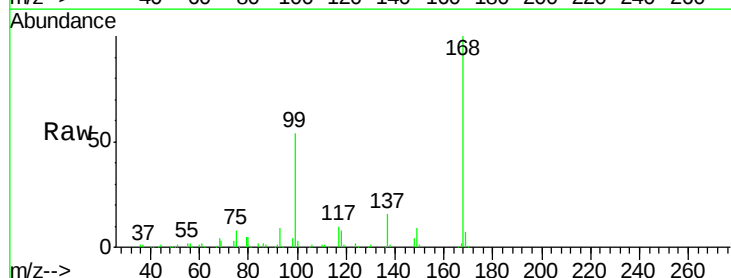
Tgt Ion: 56 Resp: 4093

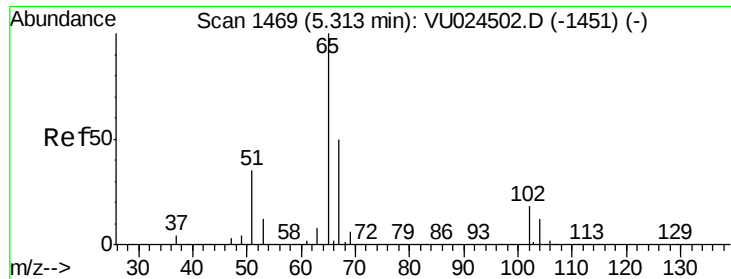
Ion Ratio Lower Upper

56 100

69 150.3 24.8 37.2#

84 104.2 65.2 97.8#

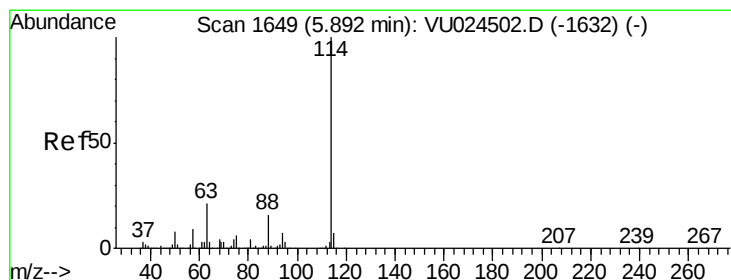
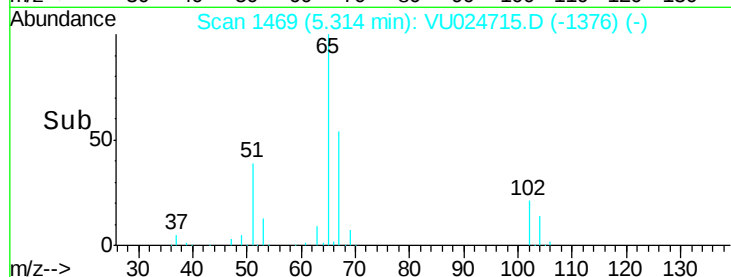
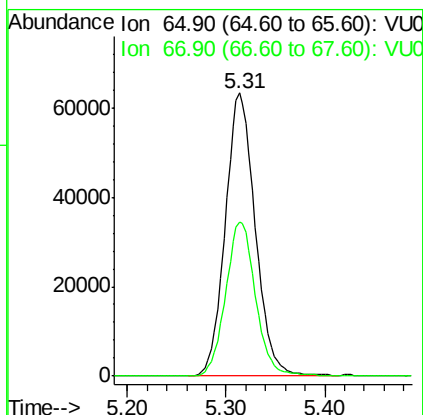
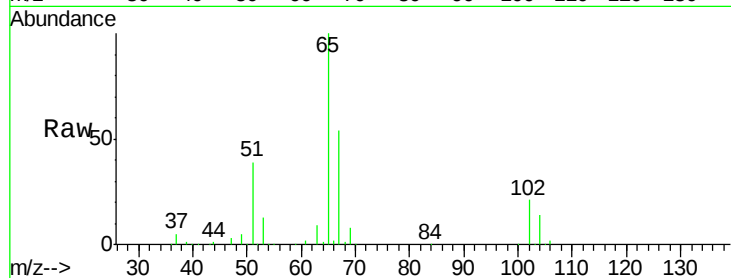




#33  
 1,2-Dichloroethane-d4  
 Concen: 42.794 ug/l  
 RT: 5.31 min Scan# 1469  
 Delta R.T. 0.00 min  
 Lab File: VU024715.D  
 Acq: 19 Jun 2018 01:54

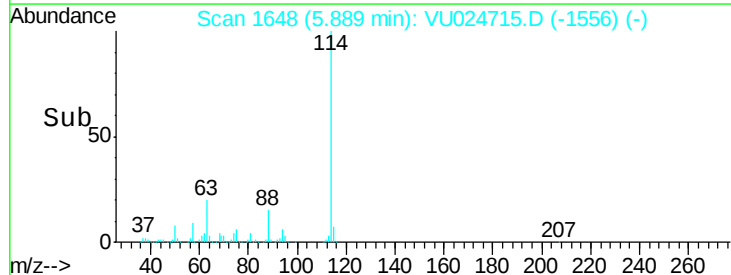
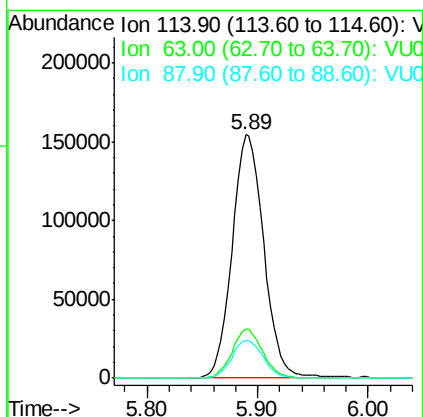
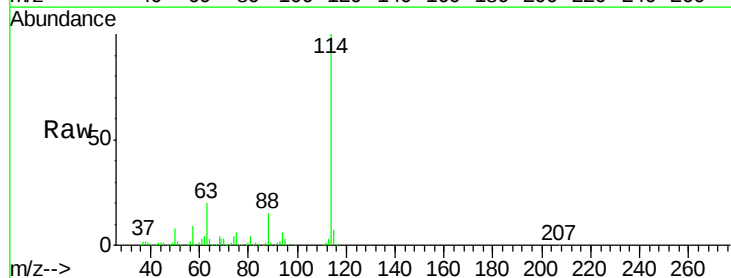
Instrument :  
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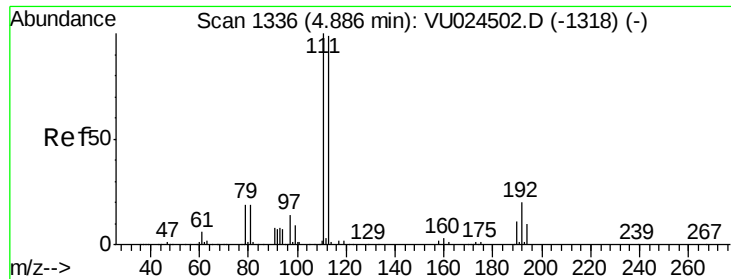
Tgt Ion: 65 Resp: 134642  
 Ion Ratio Lower Upper  
 65 100  
 67 54.2 0.0 107.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 5.89 min Scan# 1648  
 Delta R.T. -0.00 min  
 Lab File: VU024715.D  
 Acq: 19 Jun 2018 01:54

Tgt Ion: 114 Resp: 306913  
 Ion Ratio Lower Upper  
 114 100  
 63 20.4 0.0 45.4  
 88 15.2 0.0 31.0

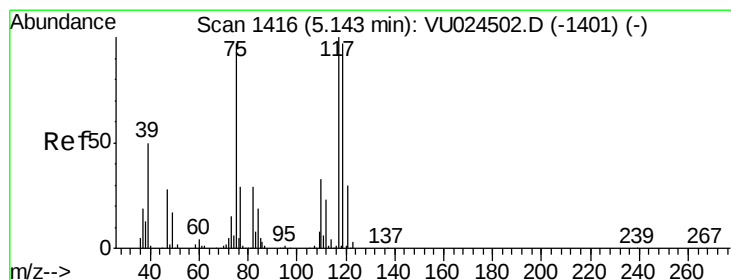
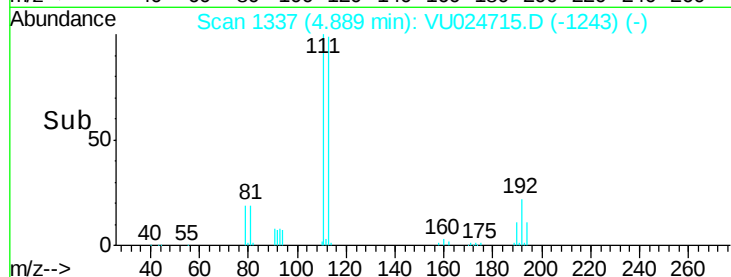
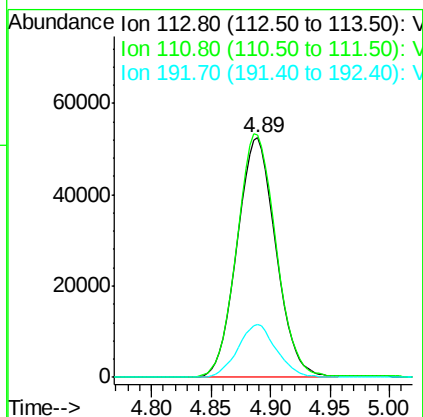
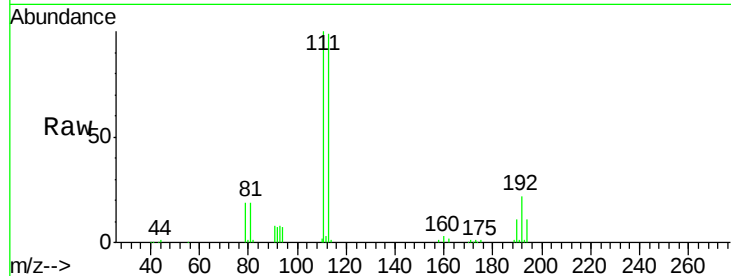




#35  
 Dibromofluoromethane  
 Concen: 46.576 ug/l  
 RT: 4.89 min Scan# 1337  
 Delta R.T. 0.00 min  
 Lab File: VU024715.D  
 Acq: 19 Jun 2018 01:54

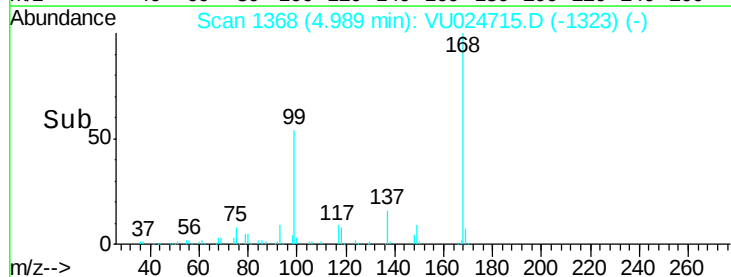
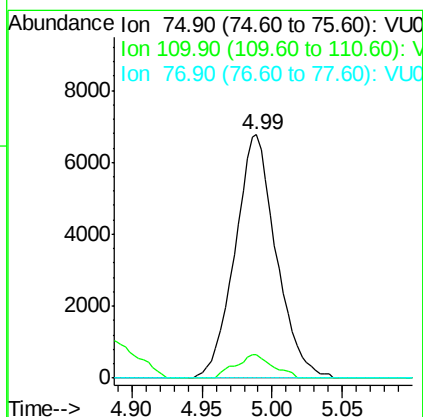
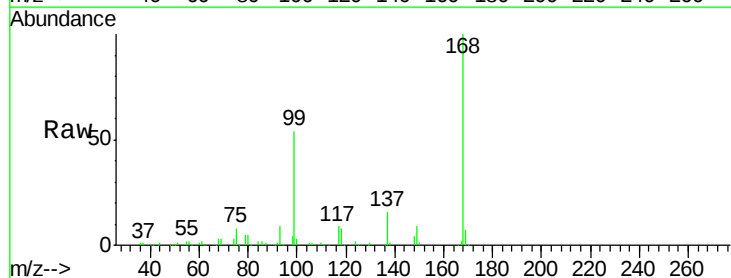
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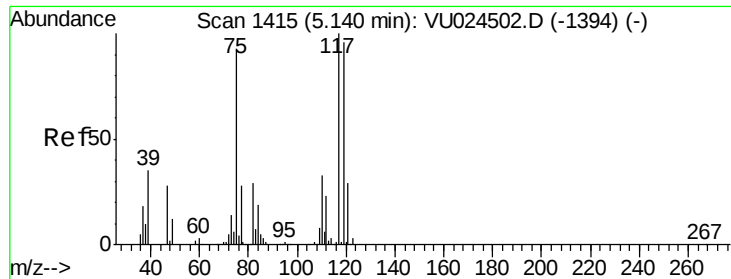
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.3 | 82.2  | 123.4 |
| 192     | 21.9  | 16.2  | 24.4  |



#36  
 1,1-Dichloropropene  
 Concen: 3.838 ug/l  
 RT: 4.99 min Scan# 1368  
 Delta R.T. -0.15 min  
 Lab File: VU024715.D  
 Acq: 19 Jun 2018 01:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.6   | 17.0  | 50.9# |
| 77      | 0.0   | 24.2  | 36.4# |





#38

Carbon Tetrachloride

Concen: 4.511 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU024715.D

Acq: 19 Jun 2018 01:54

Instrument :

MSVOA\_U

ClientSampleId :

SS036MW002-180613

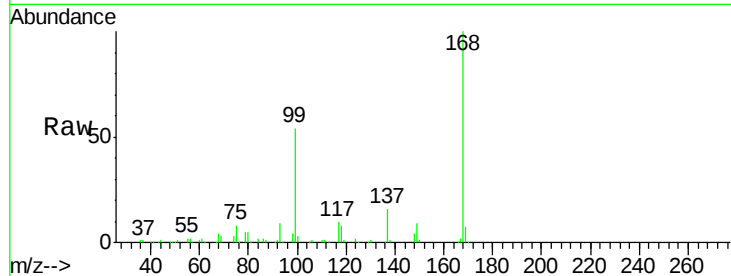
Tgt Ion:117 Resp: 17889

Ion Ratio Lower Upper

117 100

119 5.7 76.1 114.1#

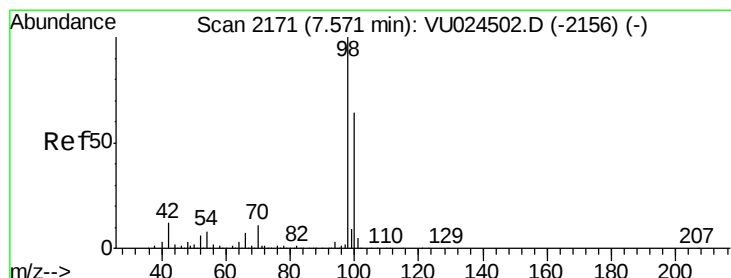
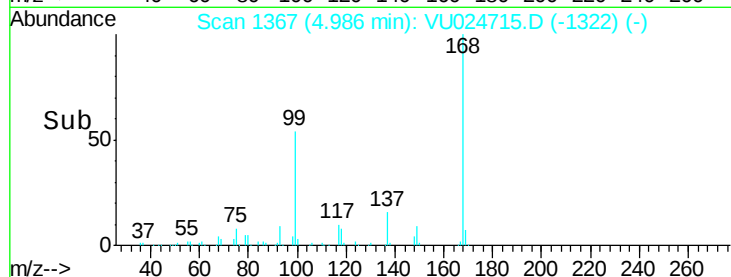
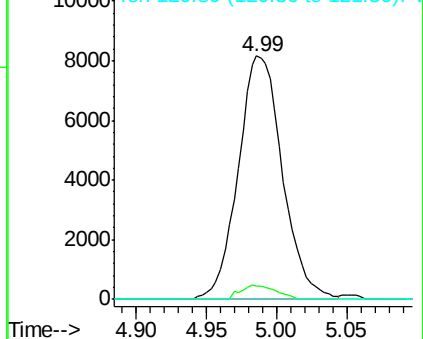
121 0.0 23.7 35.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 48.138 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024715.D

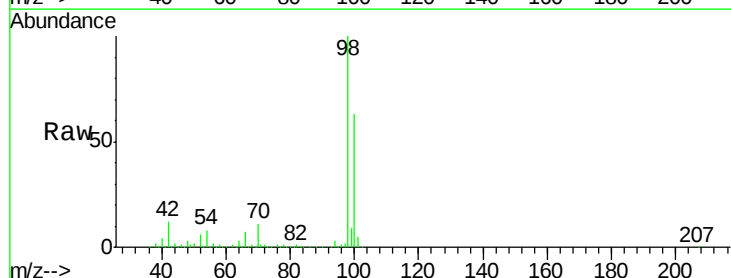
Acq: 19 Jun 2018 01:54

Tgt Ion: 98 Resp: 447243

Ion Ratio Lower Upper

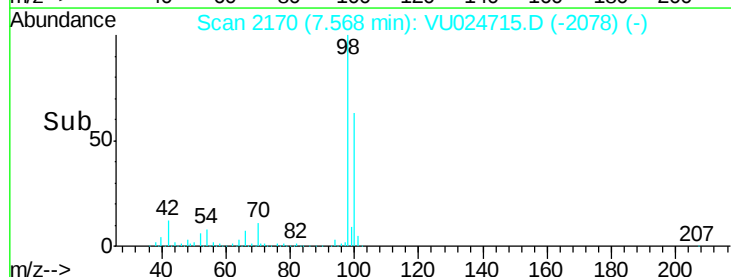
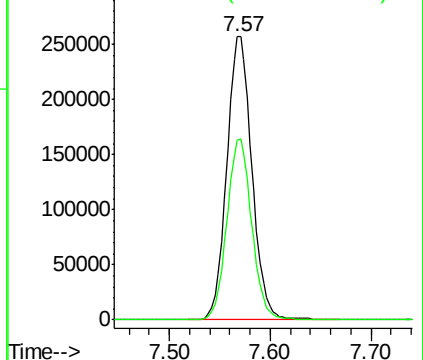
98 100

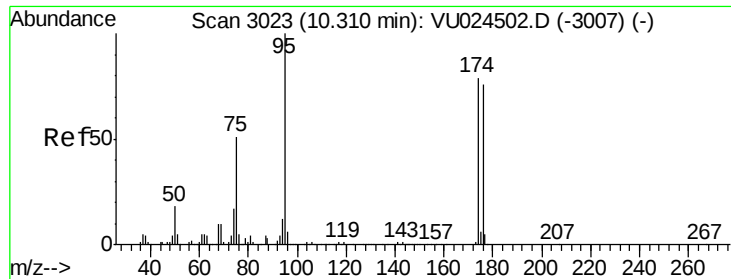
100 63.1 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU





#62

4-Bromofluorobenzene

Concen: 42.463 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU024715.D

Acq: 19 Jun 2018 01:54

Instrument :

MSVOA\_U

ClientSampleId :

SS036MW002-180613

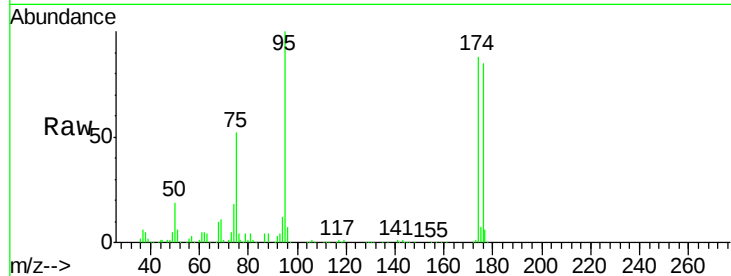
Tgt Ion: 95 Resp: 156641

Ion Ratio Lower Upper

95 100

174 87.7 0.0 165.8

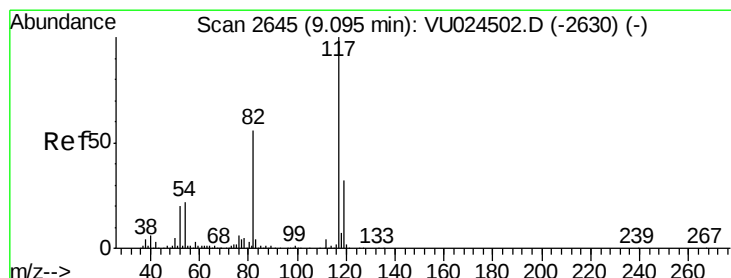
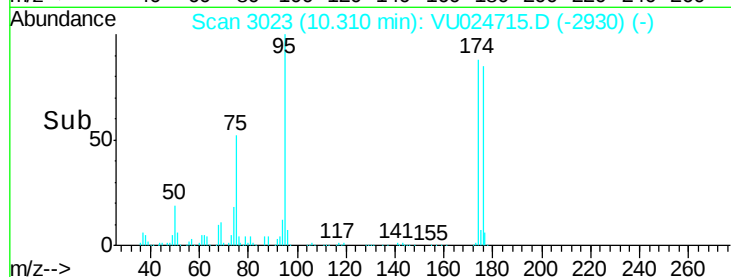
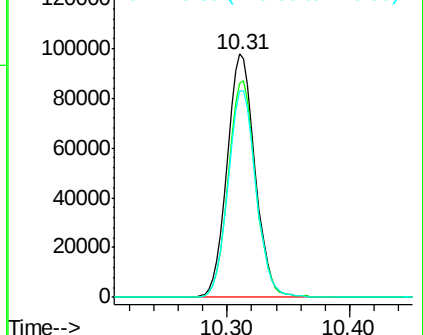
176 85.1 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VU024715.D

Acq: 19 Jun 2018 01:54

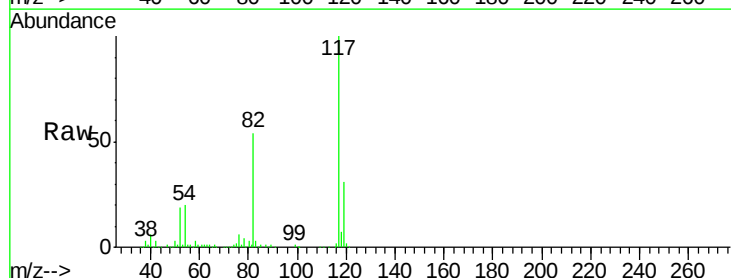
Tgt Ion: 117 Resp: 286707

Ion Ratio Lower Upper

117 100

82 53.7 44.3 66.5

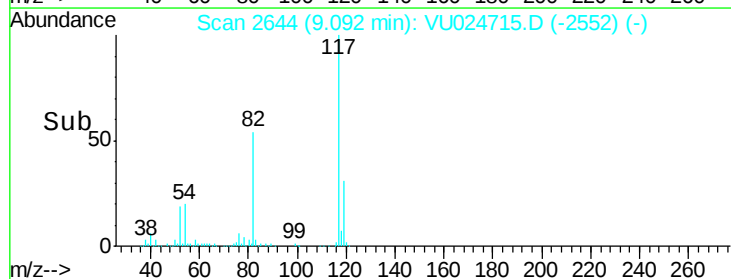
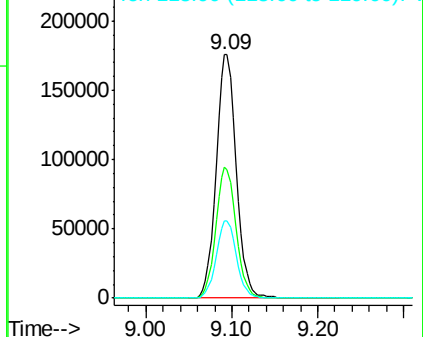
119 31.5 25.4 38.2

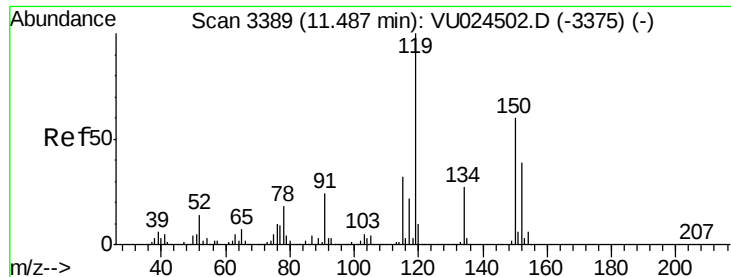


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VU0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024715.D

Acq: 19 Jun 2018 01:54

Instrument :

MSVOA\_U

ClientSampleId :

SS036MW002-180613

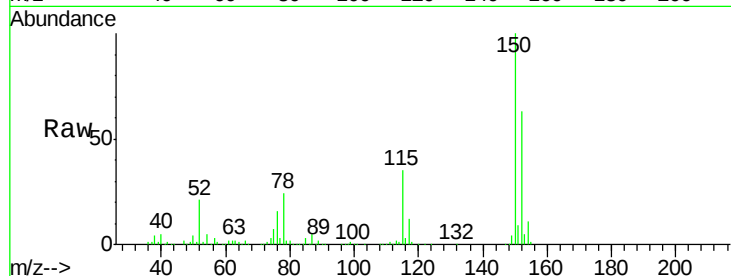
Tgt Ion:152 Resp: 151322

Ion Ratio Lower Upper

152 100

115 56.2 43.0 129.0

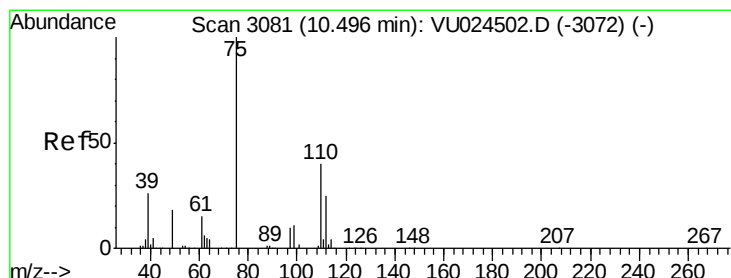
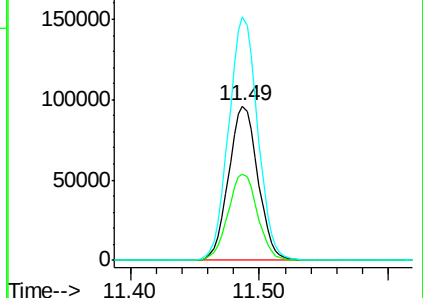
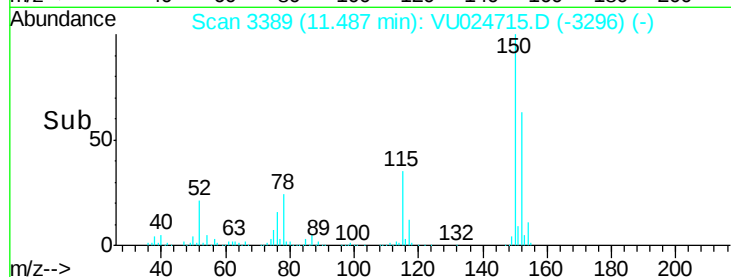
150 156.4 0.0 354.0



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



#76

1,2,3-Trichloropropane

Concen: 24.087 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024715.D

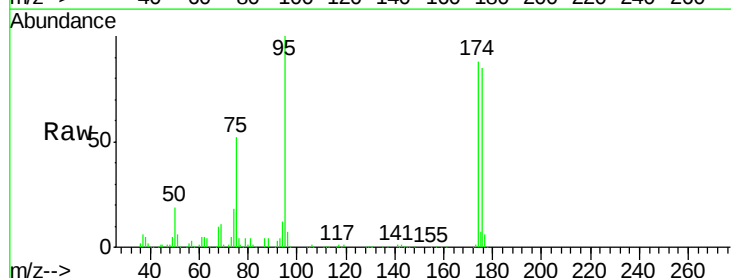
Acq: 19 Jun 2018 01:54

Tgt Ion: 75 Resp: 80247

Ion Ratio Lower Upper

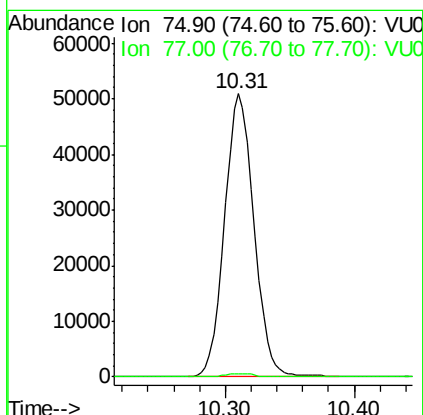
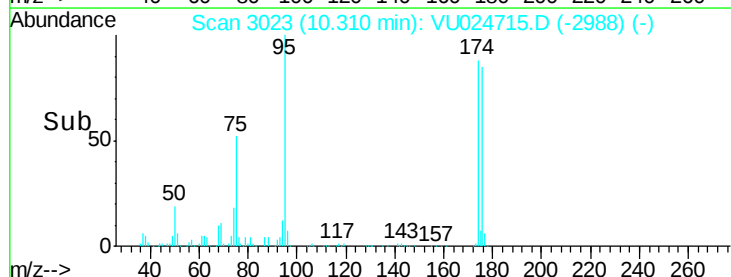
75 100

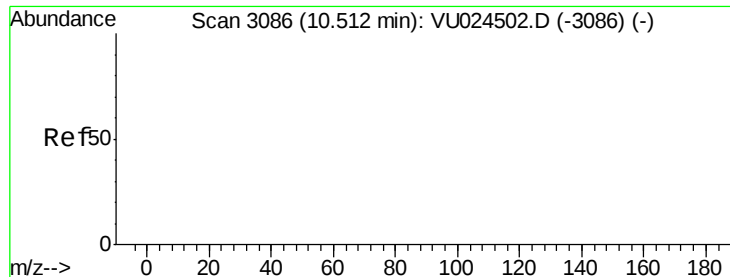
77 1.0 20.9 62.7#



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: 55.747 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024715.D

Acq: 19 Jun 2018 01:54

Instrument :

MSVOA\_U

ClientSampleId :

SS036MW002-180613

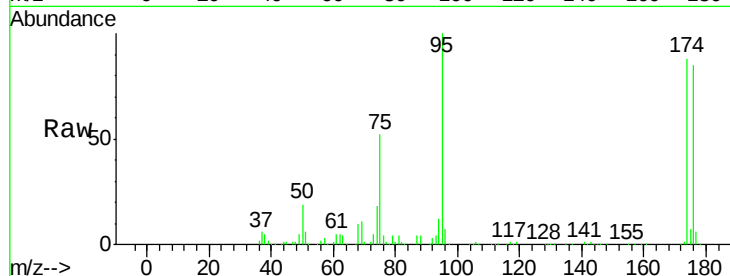
Tgt Ion: 75 Resp: 80247

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

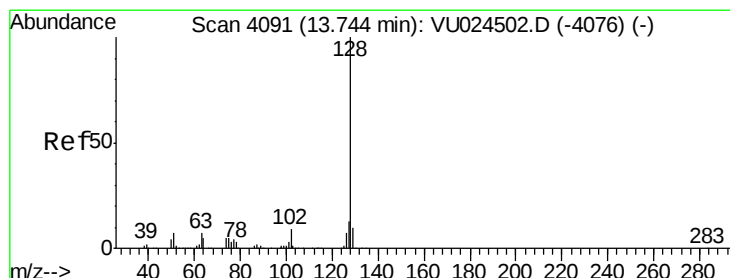
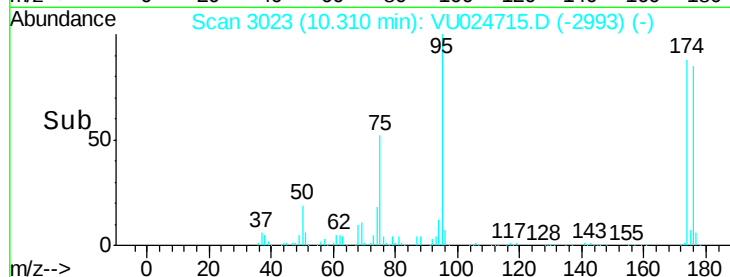
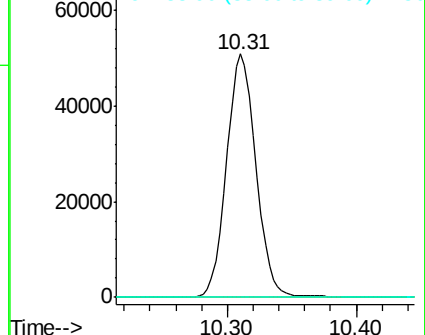
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024715.D (-2993) (-)

Ion 53.00 (52.70 to 53.70): VU024715.D (-2993) (-)

Ion 88.90 (88.60 to 89.60): VU024715.D (-2993) (-)



#95

Naphthalene

Concen: 0.715 ug/l

RT: 13.75 min Scan# 4094

Delta R.T. 0.01 min

Lab File: VU024715.D

Acq: 19 Jun 2018 01:54

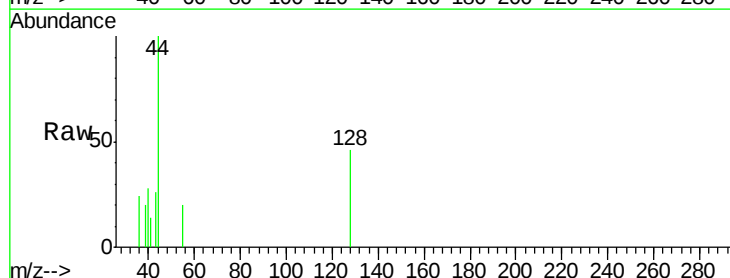
Tgt Ion: 128 Resp: 405

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU024715.D (-3997) (-)

Ion 127.00 (126.70 to 127.70): VU024715.D (-3997) (-)

Ion 129.00 (128.70 to 129.70): VU024715.D (-3997) (-)

