

Data File : VU033217.D  
Acq On : 12 Jul 2019 13:19  
Operator : JC/SP  
Sample : K3724-18  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8S8

Quant Time: Jul 13 00:11:14 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jul 13 00:05:57 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 326131   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 322444   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 160537   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 112500   | 45.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 91.14%  |
| 7) Chloroethane-d5             | 1.65    | 69    | 97168    | 46.07    | ug/L | -0.02   |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 92.14%  |
| 11) 1,1-Dichloroethene-d2      | 2.25    | 63    | 227985   | 50.91    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 101.82% |
| 21) 2-Butanone-d5              | 4.15    | 46    | 134700   | 86.11    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 86.11%  |
| 24) Chloroform-d               | 4.62    | 84    | 195581   | 47.27    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 94.54%  |
| 26) 1,2-Dichloroethane-d4      | 5.28    | 65    | 124114   | 46.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.54%  |
| 32) Benzene-d6                 | 5.31    | 84    | 383753   | 48.51    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.02%  |
| 36) 1,2-Dichloropropane-d6     | 6.31    | 67    | 123830   | 48.87    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 97.74%  |
| 41) Toluene-d8                 | 7.55    | 98    | 362848   | 48.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.28%  |
| 43) trans-1,3-Dichloropropene- | 7.83    | 79    | 60987    | 49.08    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 98.16%  |
| 47) 2-Hexanone-d5              | 8.30    | 63    | 120184   | 105.21   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 105.21% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.42   | 84    | 187162   | 48.80    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.60%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.85   | 152   | 141196   | 49.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 98.64%  |

#### Target Compounds

|                                |      |     |        |        |      | Qvalue |
|--------------------------------|------|-----|--------|--------|------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 70242  | 21.734 | ug/L | 97     |
| 3) Chloromethane               | 1.32 | 50  | 72893  | 22.893 | ug/L | 98     |
| 5) Vinyl chloride              | 1.39 | 62  | 175357 | 47.649 | ug/L | 100    |
| 6) Bromomethane                | 1.59 | 94  | 62465  | 27.226 | ug/L | 99     |
| 8) Chloroethane                | 1.67 | 64  | 56199  | 25.247 | ug/L | 99     |
| 9) Trichlorofluoromethane      | 1.86 | 101 | 199165 | 41.156 | ug/L | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.26 | 101 | 49143  | 22.088 | ug/L | 98     |
| 12) 1,1-Dichloroethene         | 2.26 | 96  | 138099 | 63.441 | ug/L | 90     |
| 13) Acetone                    | 2.31 | 43  | 1699   | 0.869  | ug/L | 70     |
| 16) Methylene chloride         | 2.68 | 84  | 100615 | 40.483 | ug/L | 97     |
| 17) trans-1,2-Dichloroethene   | 2.96 | 96  | 44047  | 19.578 | ug/L | 98     |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 269491 | 62.316 | ug/L | 99     |
| 20) cis-1,2-Dichloroethene     | 4.20 | 96  | 101493 | 39.995 | ug/L | 98     |
| 23) Bromochloromethane         | 4.52 | 128 | 51708  | 39.792 | ug/L | 98     |
| 25) Chloroform                 | 4.64 | 83  | 252569 | 54.913 | ug/L | 99     |
| 27) 1,2-Dichloroethane         | 5.38 | 62  | 237999 | 66.824 | ug/L | 100    |
| 30) 1,1,1-Trichloroethane      | 4.89 | 97  | 75272  | 20.010 | ug/L | 99     |

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ALS Vial : 11 Sample Multiplier: 1

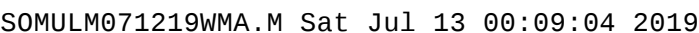
Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8S8

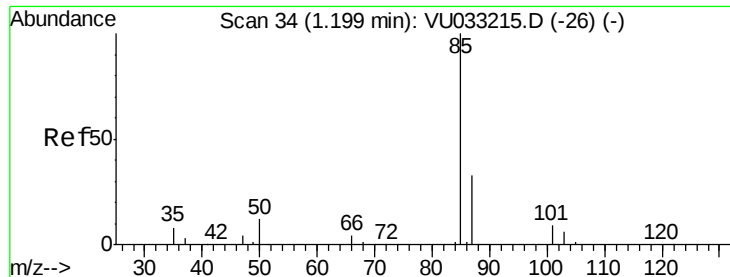
Quant Time: Jul 13 00:11:14 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071219WMA.M  
Quant Title : VOC Analysis  
QLast Update : Sat Jul 13 00:05:57 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 31) Carbon tetrachloride       | 5.11  | 117  | 199299   | 60.540 | ug/L   | 99       |
| 33) Benzene                    | 5.36  | 78   | 433621   | 46.114 | ug/L   | 100      |
| 34) Trichloroethene            | 6.16  | 95   | 197497   | 80.309 | ug/L   | 98       |
| 37) 1,2-Dichloropropane        | 6.41  | 63   | 97971    | 38.418 | ug/L   | 100      |
| 38) Bromodichloromethane       | 6.74  | 83   | 65159    | 19.808 | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene    | 7.25  | 75   | 96377    | 24.649 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene  | 7.86  | 75   | 179801   | 50.990 | ug/L   | 99       |
| 45) 1,1,2-Trichloroethane      | 8.05  | 97   | 60751    | 25.189 | ug/L   | 98       |
| 46) Tetrachloroethene          | 8.21  | 164  | 134973   | 70.898 | ug/L   | 98       |
| 48) 2-Hexanone                 | 8.35  | 43   | 3202     | 1.149  | ug/L # | 65       |
| 49) Dibromochloromethane       | 8.46  | 129  | 102422   | 38.069 | ug/L   | 99       |
| 50) 1,2-Dibromoethane          | 8.57  | 107  | 76102    | 28.940 | ug/L   | 97       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 160084   | 37.787 | ug/L   | 100      |
| 59) 1,2,3-Trichloropropane     | 11.47 | 75   | 19690    | 5.931  | ug/L   | 95       |
| 61) Bromoform                  | 9.94  | 173  | 97501    | 49.729 | ug/L   | 98       |
| 66) 1,2-Dibromo-3-chloropropan | 12.64 | 75   | 37298    | 38.559 | ug/L   | 96       |

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

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#2

Dichlorodifluoromethane

Concen: 21.734 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033217.D

Acq: 12 Jul 2019 13:19

Instrument :

MSVOA\_U

ClientSampleId :

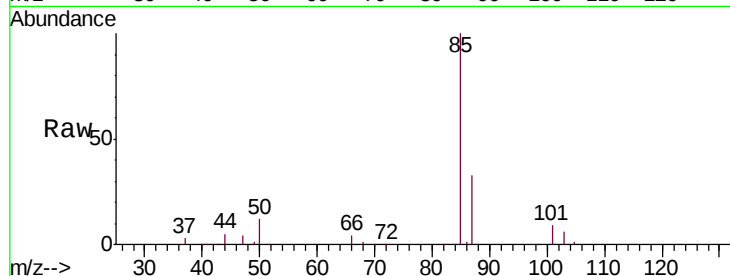
DB8S8

Tgt Ion: 85 Resp: 70242

Ion Ratio Lower Upper

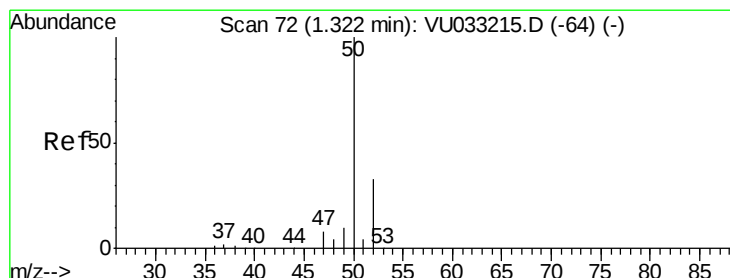
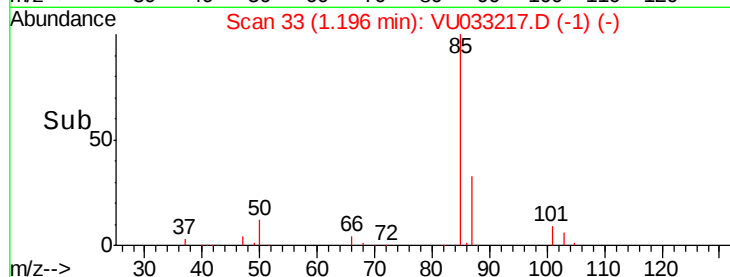
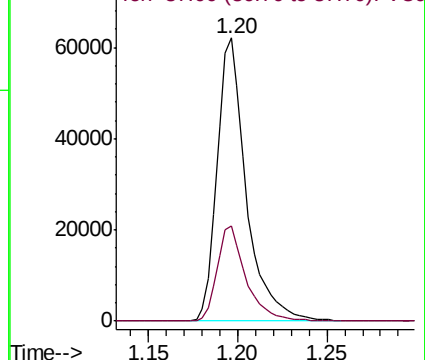
85 100

87 33.3 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033215.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033215.D (-26) (-)



#3

Chloromethane

Concen: 22.893 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033217.D

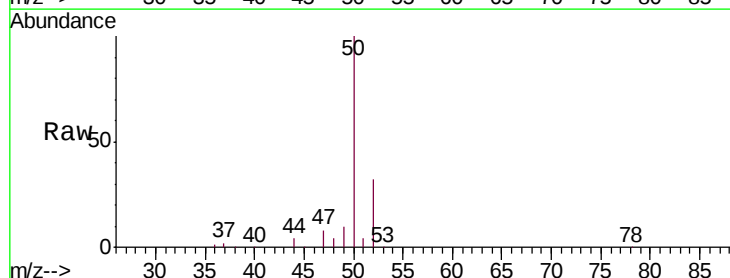
Acq: 12 Jul 2019 13:19

Tgt Ion: 50 Resp: 72893

Ion Ratio Lower Upper

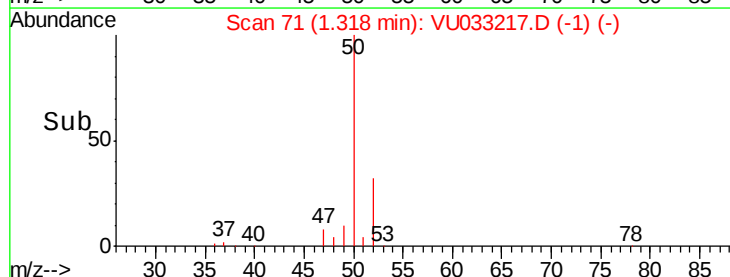
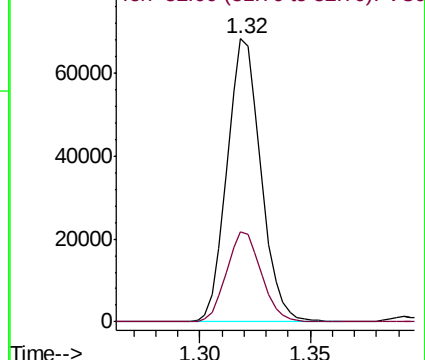
50 100

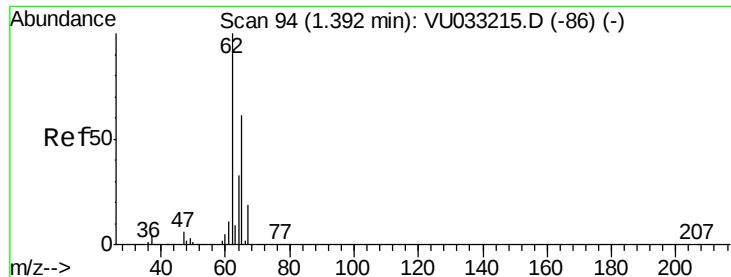
52 31.9 23.2 43.0



Abundance Ion 50.00 (49.70 to 50.70): VU033215.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU033215.D (-64) (-)





#5

Vinyl chloride

Concen: 47.649 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033217.D

Acq: 12 Jul 2019 13:19

Instrument :

MSVOA\_U

ClientSampleId :

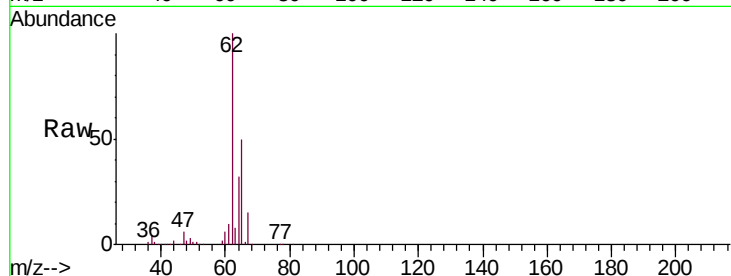
DB8S8

Tgt Ion: 62 Resp: 175357

Ion Ratio Lower Upper

62 100

64 32.4 22.7 42.3



Abundance Ion 62.00 (61.70 to 62.70): VU033217.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033217.D (-86) (-)

1.39

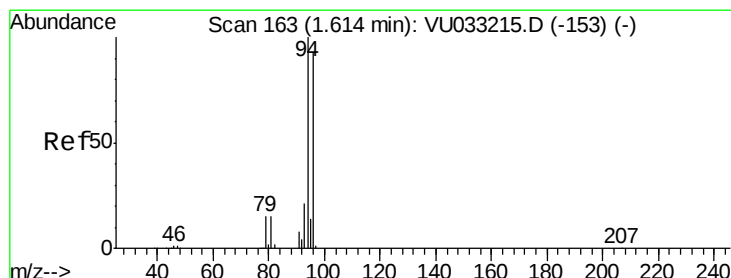
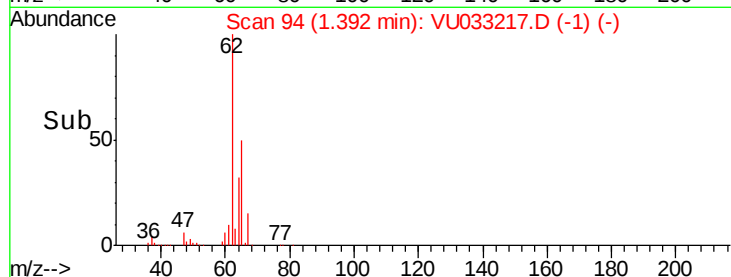
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 27.226 ug/L

RT: 1.59 min Scan# 157

Delta R.T. -0.02 min

Lab File: VU033217.D

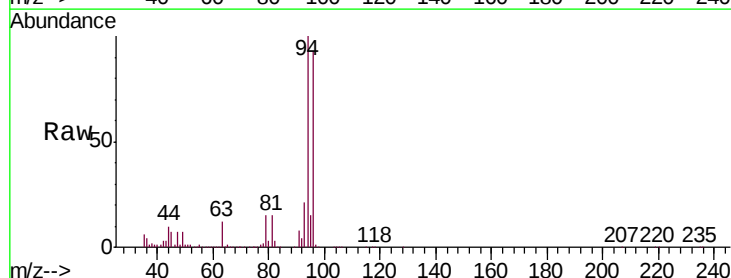
Acq: 12 Jul 2019 13:19

Tgt Ion: 94 Resp: 62465

Ion Ratio Lower Upper

94 100

96 93.4 66.1 122.7



Abundance Ion 94.00 (93.70 to 94.70): VU033217.D (-153) (-)

Ion 96.00 (95.70 to 96.70): VU033217.D (-153) (-)

1.59

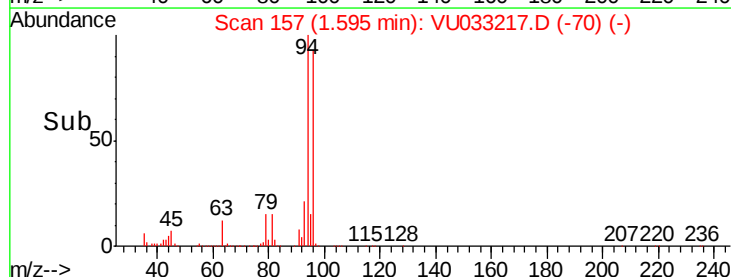
60000

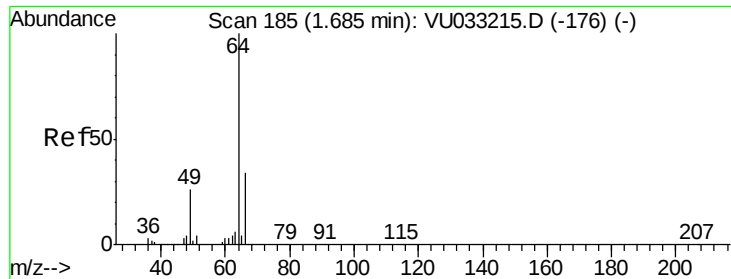
40000

20000

0

Time-->





#8

Chloroethane

Concen: 25.247 ug/L

RT: 1.67 min Scan# 180

Delta R.T. -0.02 min

Lab File: VU033217.D

Acq: 12 Jul 2019 13:19

Instrument :

MSVOA\_U

ClientSampleId :

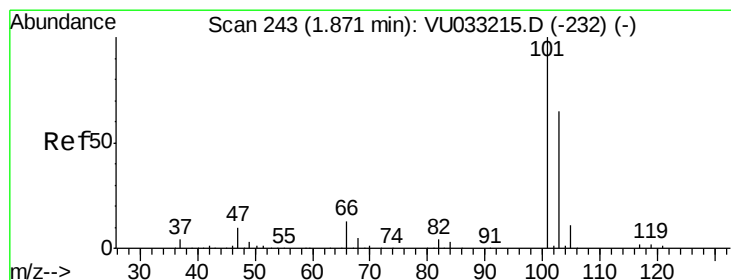
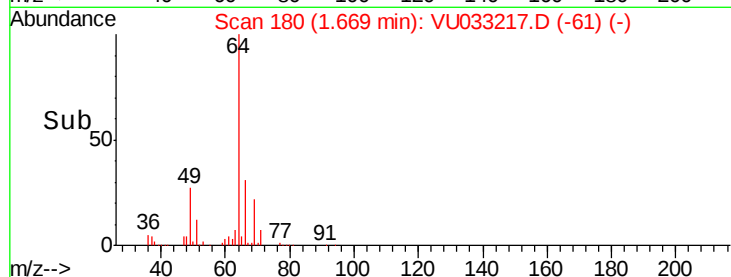
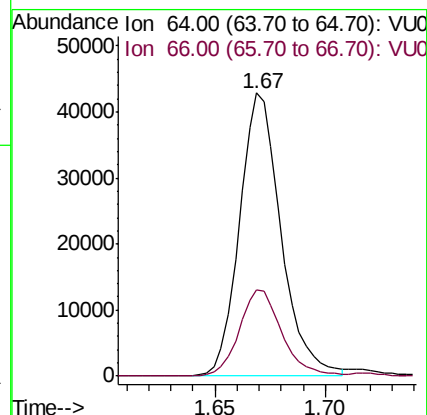
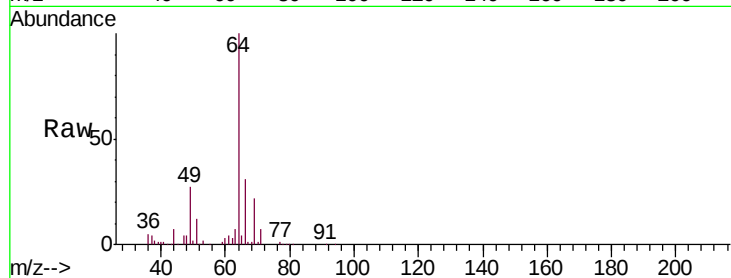
DB8S8

Tgt Ion: 64 Resp: 56199

Ion Ratio Lower Upper

64 100

66 30.5 21.6 40.0



#9

Trichlorofluoromethane

Concen: 41.156 ug/L

RT: 1.86 min Scan# 240

Delta R.T. -0.01 min

Lab File: VU033217.D

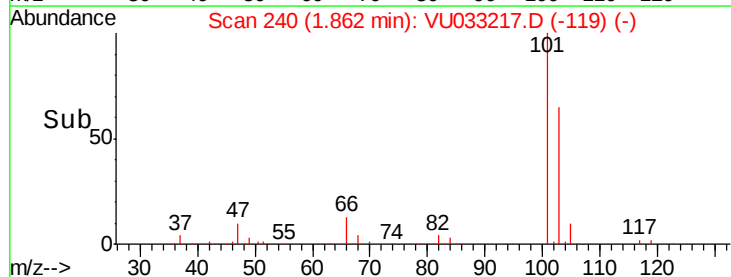
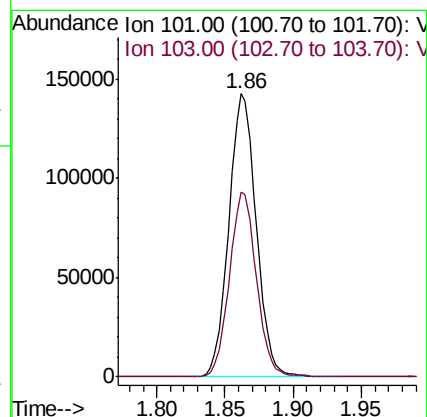
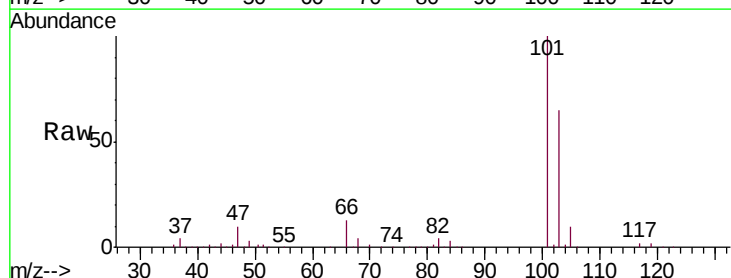
Acq: 12 Jul 2019 13:19

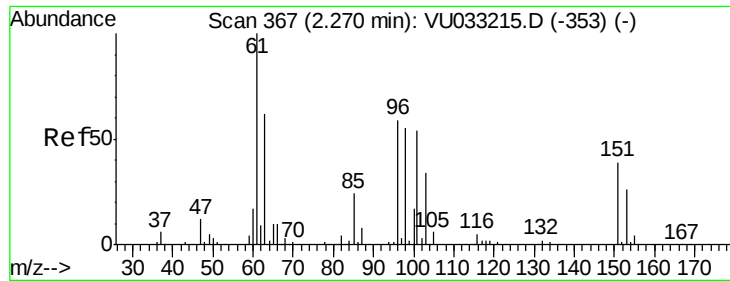
Tgt Ion: 101 Resp: 199165

Ion Ratio Lower Upper

101 100

103 64.5 52.2 78.4





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 22.088 ug/L

RT: 2.26 min Scan# 365

Delta R.T. -0.01 min

Lab File: VU033217.D

Acq: 12 Jul 2019 13:19

Instrument :

MSVOA\_U

ClientSampleId :

DB8S8

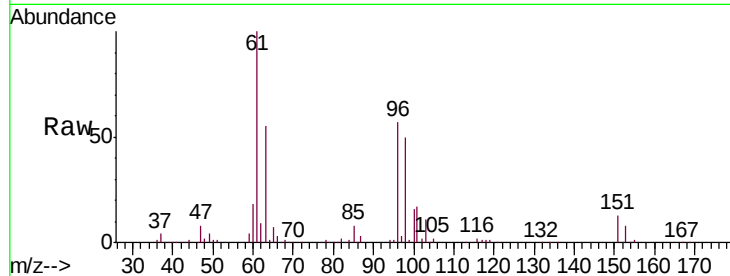
Tgt Ion: 101 Resp: 49143

Ion Ratio Lower Upper

101 100

85 42.3 35.8 53.8

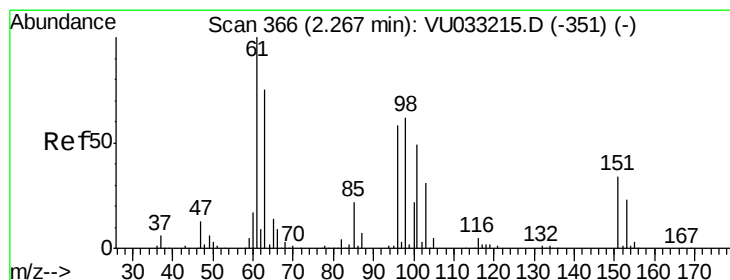
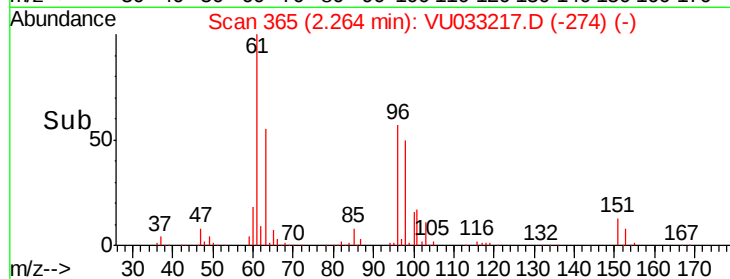
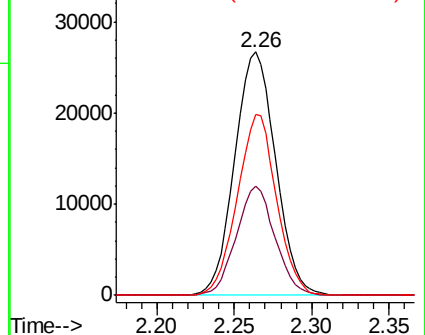
151 71.1 56.7 85.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 63.441 ug/L

RT: 2.26 min Scan# 364

Delta R.T. -0.01 min

Lab File: VU033217.D

Acq: 12 Jul 2019 13:19

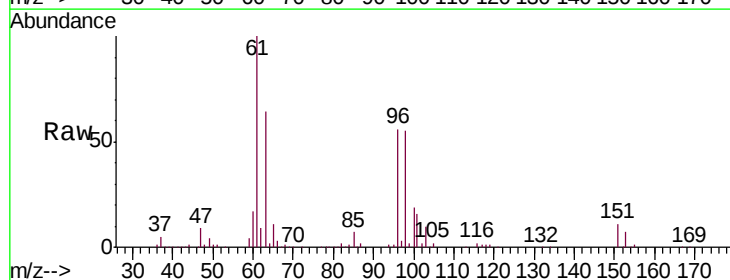
Tgt Ion: 96 Resp: 138099

Ion Ratio Lower Upper

96 100

61 178.0 126.1 234.1

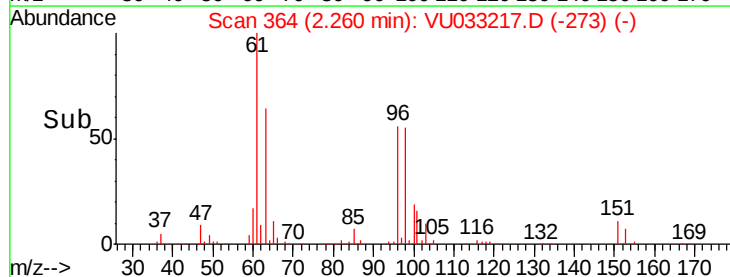
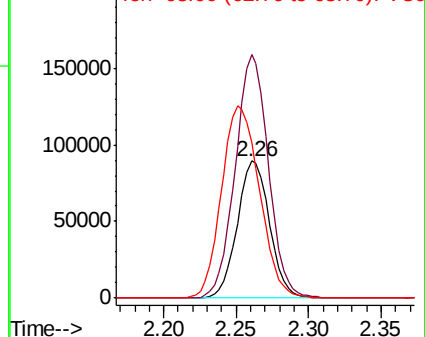
63 113.5 96.8 179.8

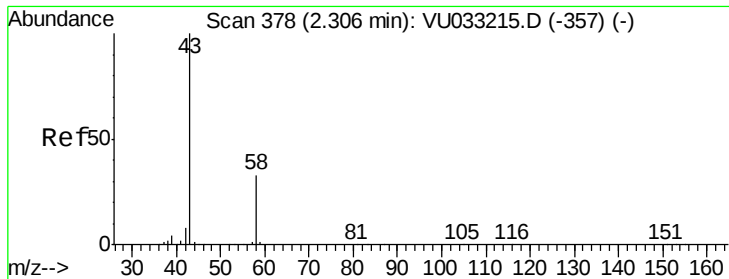


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 0.869 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VU033217.D

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Instrument :

MSVOA\_U

ClientSampleId :

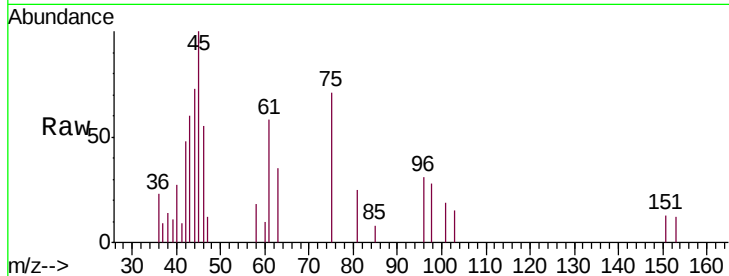
DB8S8

Tgt Ion: 43 Resp: 1699

Ion Ratio Lower Upper

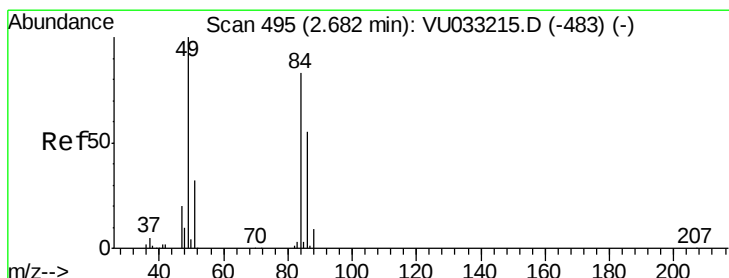
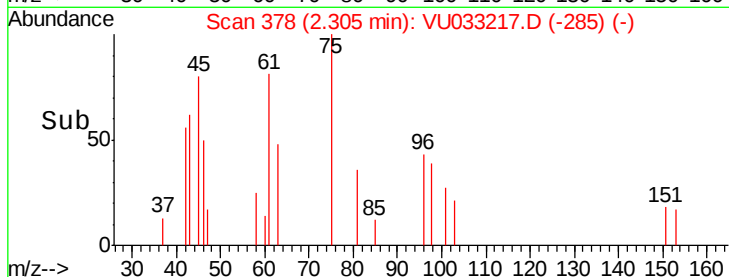
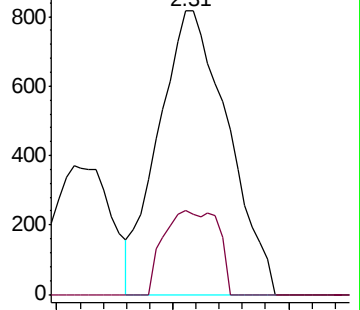
43 100

58 16.1 0.0 65.4



Abundance Ion 43.00 (42.70 to 43.70): VU033217.D (-357) (-)

Ion 58.00 (57.70 to 58.70): VU033217.D (-357) (-)



#16

Methylene chloride

Concen: 40.483 ug/L

RT: 2.68 min Scan# 494

Delta R.T. -0.00 min

Lab File: VU033217.D

Acq: 12 Jul 2019 13:19

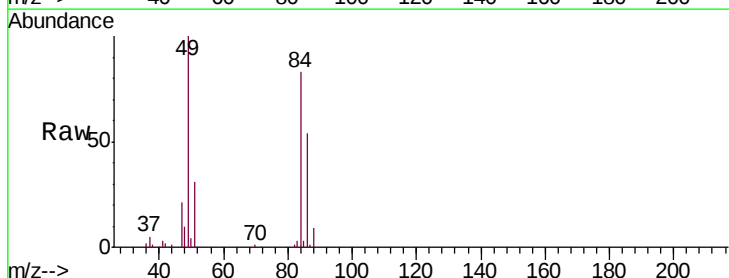
Tgt Ion: 84 Resp: 100615

Ion Ratio Lower Upper

84 100

86 64.7 45.7 84.9

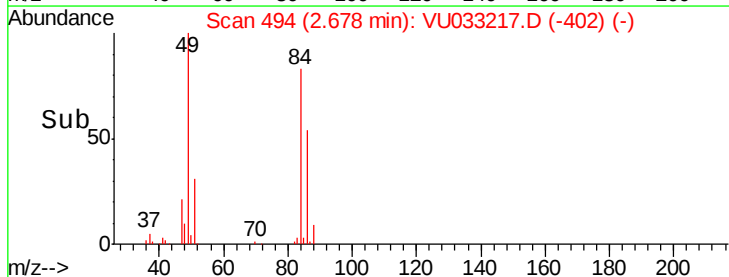
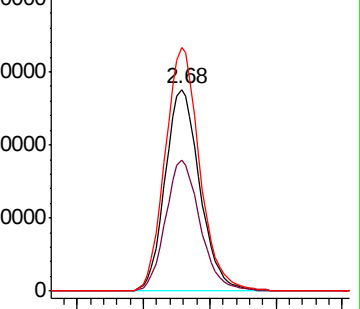
49 120.6 87.7 162.9

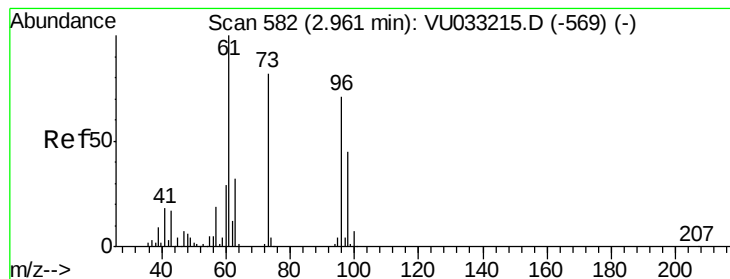


Abundance Ion 84.00 (83.70 to 84.70): VU033217.D (-402) (-)

Ion 86.00 (85.70 to 86.70): VU033217.D (-402) (-)

Ion 49.00 (48.70 to 49.70): VU033217.D (-402) (-)





#17

trans-1,2-Dichloroethene

Concen: 19.578 ug/L

RT: 2.96 min Scan# 581

Delta R.T. -0.00 min

Lab File: VU033217.D

Acq: 12 Jul 2019 13:19

Instrument :

MSVOA\_U

ClientSampleId :

DB8S8

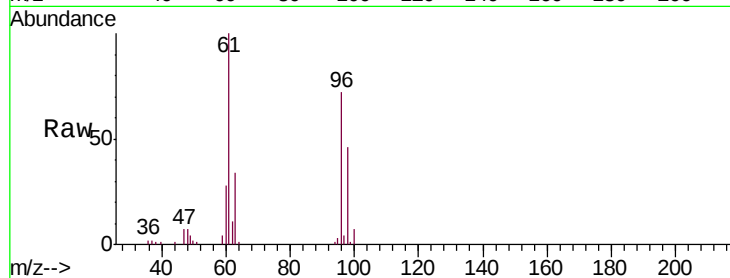
Tgt Ion: 96 Resp: 44047

Ion Ratio Lower Upper

96 100

61 139.6 100.2 186.2

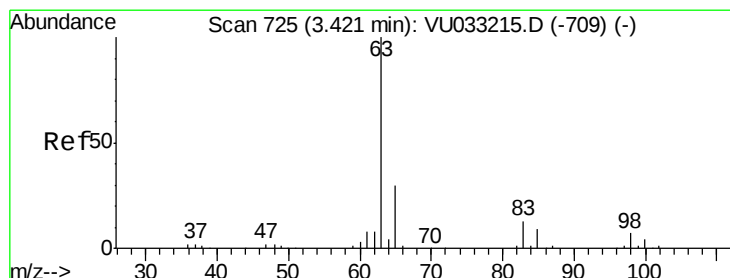
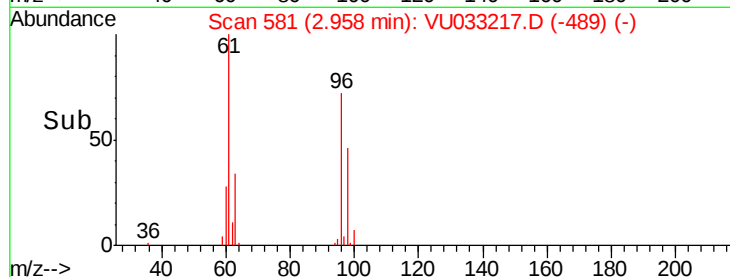
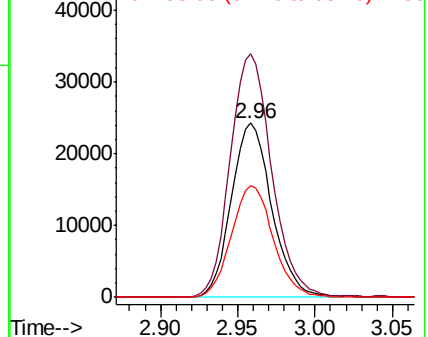
98 64.2 44.2 82.0



Abundance Ion 96.00 (95.70 to 96.70): VU033215.D (-569) (-)

Ion 61.00 (60.70 to 61.70): VU033215.D (-569) (-)

Ion 98.00 (97.70 to 98.70): VU033215.D (-569) (-)



#19

1,1-Dichloroethane

Concen: 62.316 ug/L

RT: 3.42 min Scan# 724

Delta R.T. -0.00 min

Lab File: VU033217.D

Acq: 12 Jul 2019 13:19

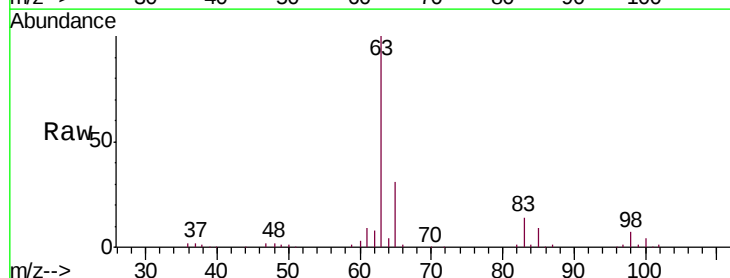
Tgt Ion: 63 Resp: 269491

Ion Ratio Lower Upper

63 100

65 31.3 22.3 41.5

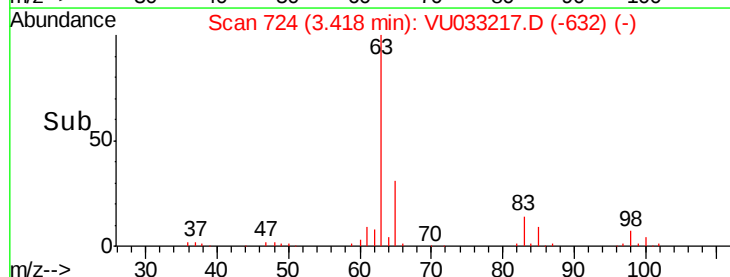
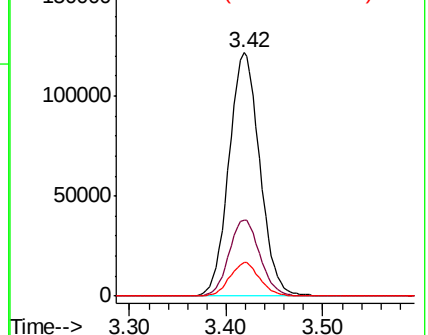
83 13.6 9.3 17.3

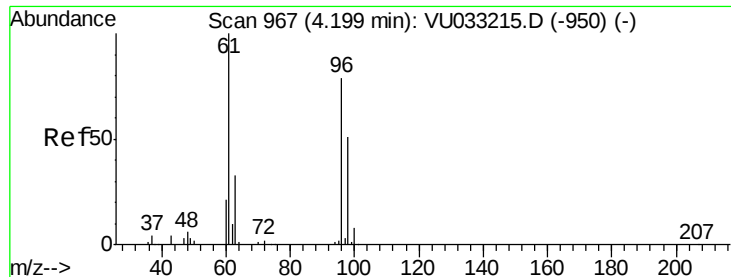


Abundance Ion 63.00 (62.70 to 63.70): VU033215.D (-709) (-)

Ion 65.00 (64.70 to 65.70): VU033215.D (-709) (-)

Ion 83.00 (82.70 to 83.70): VU033215.D (-709) (-)



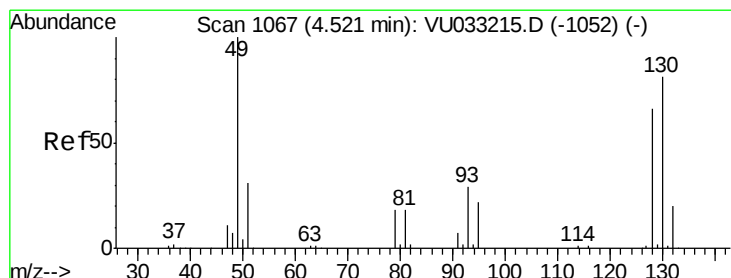
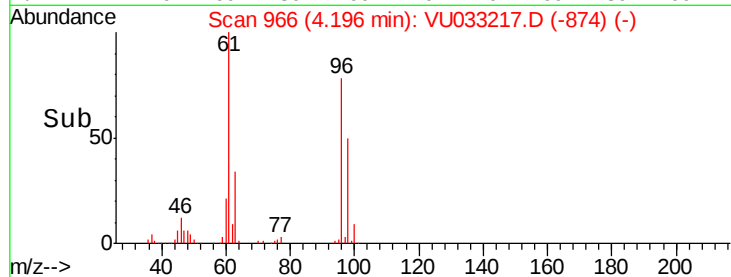
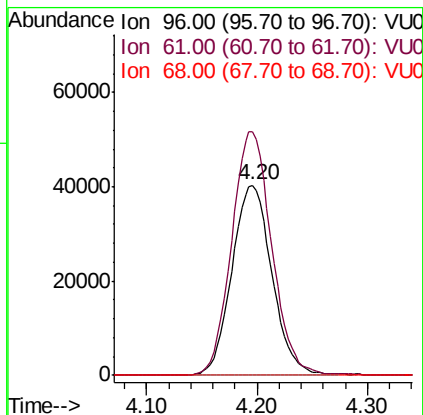
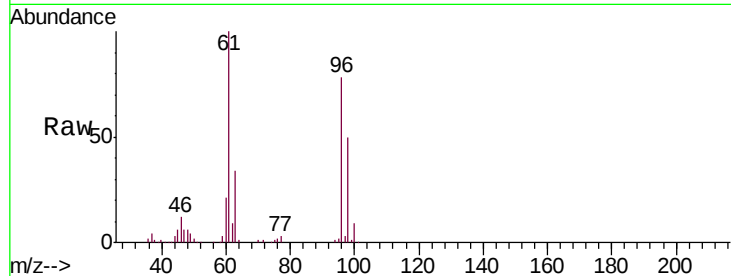


#20

cis-1,2-Dichloroethene  
 Concen: 39.995 ug/L  
 RT: 4.20 min Scan# 966  
 Delta R.T. -0.00 min  
 Lab File: VU033217.D  
 Acq: 12 Jul 2019 13:19

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8S8

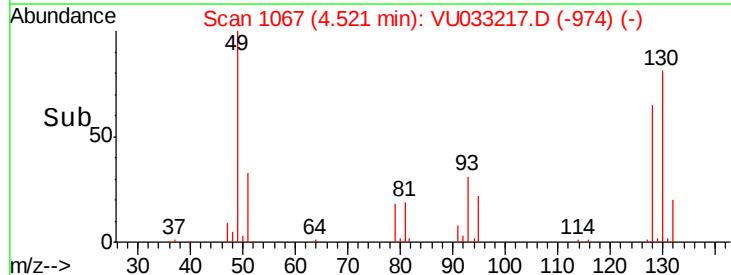
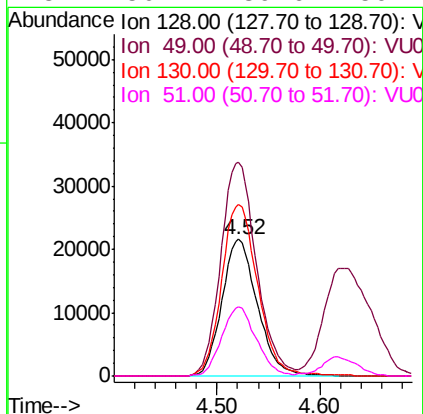
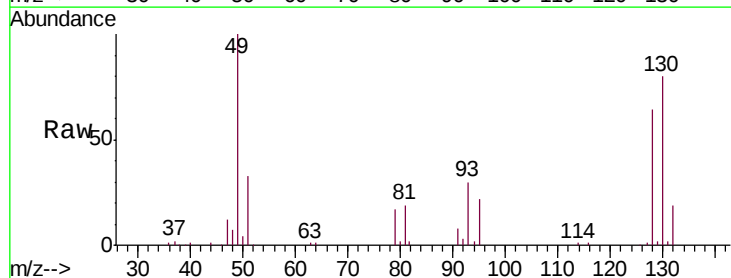
Tgt Ion: 96 Resp: 101493  
 Ion Ratio Lower Upper  
 96 100  
 61 128.1 91.1 169.1  
 68 0.0 0.0 0.0

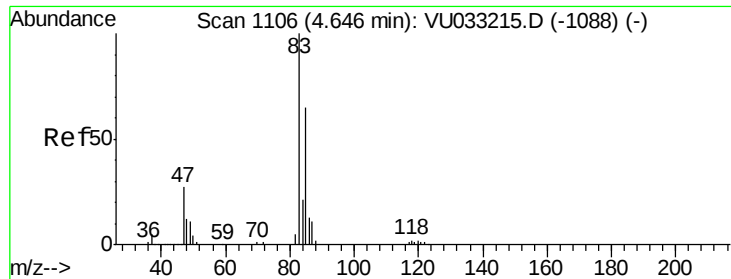


#23

Bromochloromethane  
 Concen: 39.792 ug/L  
 RT: 4.52 min Scan# 1067  
 Delta R.T. -0.00 min  
 Lab File: VU033217.D  
 Acq: 12 Jul 2019 13:19

Tgt Ion: 128 Resp: 51708  
 Ion Ratio Lower Upper  
 128 100  
 49 156.0 107.2 199.2  
 130 125.0 87.0 161.6  
 51 50.7 39.6 59.4

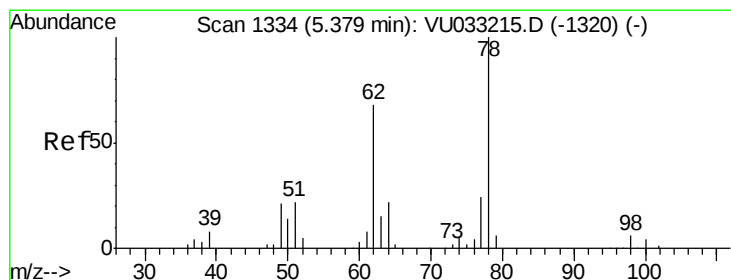
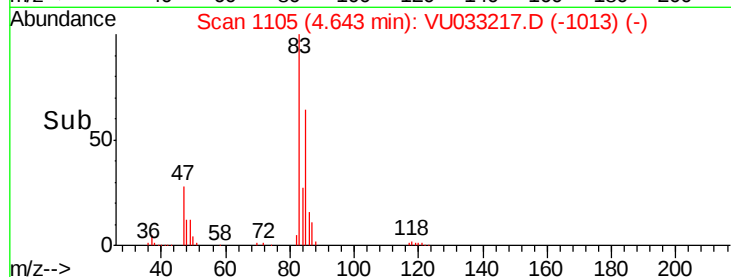
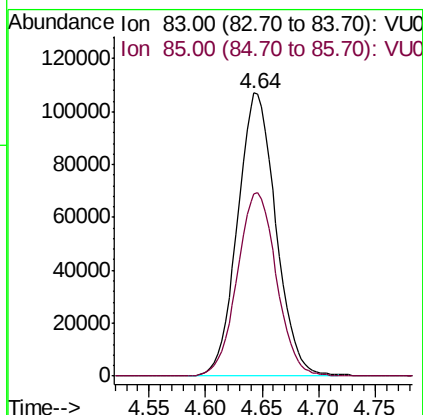
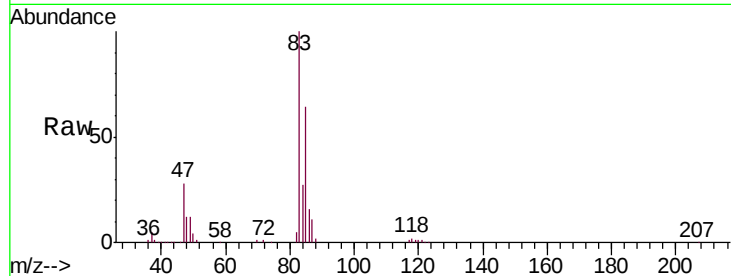




#25  
Chloroform  
Concen: 54.913 ug/L  
RT: 4.64 min Scan# 1105  
Delta R.T. -0.00 min  
Lab File: VU033217.D  
Acq: 12 Jul 2019 13:19

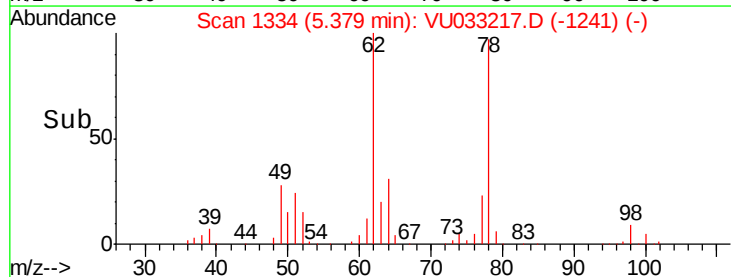
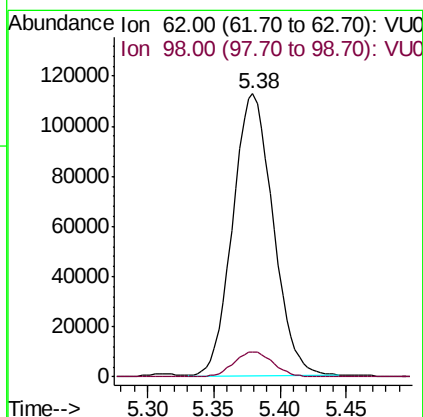
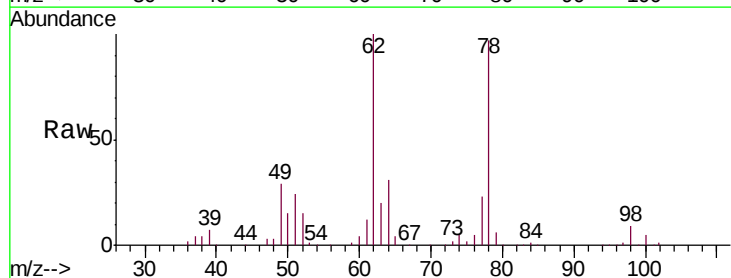
Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8S8

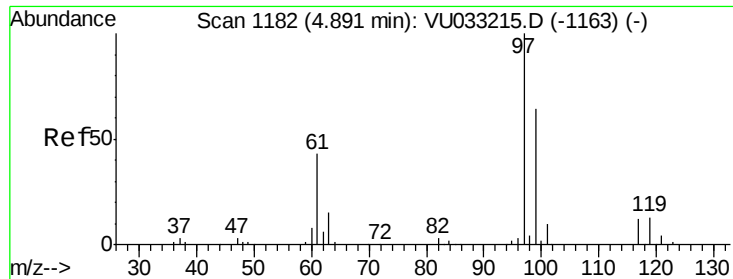
Tgt Ion: 83 Resp: 252569  
Ion Ratio Lower Upper  
83 100  
85 64.4 45.4 84.4



#27  
1,2-Dichloroethane  
Concen: 66.824 ug/L  
RT: 5.38 min Scan# 1334  
Delta R.T. -0.00 min  
Lab File: VU033217.D  
Acq: 12 Jul 2019 13:19

Tgt Ion: 62 Resp: 237999  
Ion Ratio Lower Upper  
62 100  
98 9.0 7.0 10.6

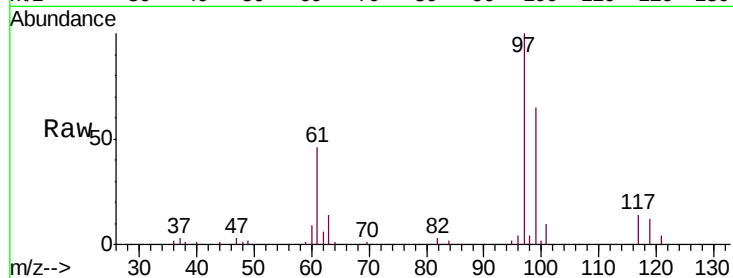




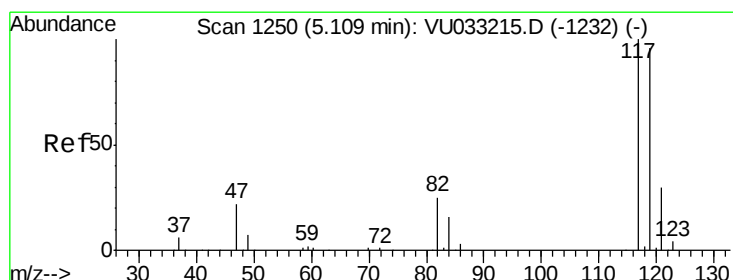
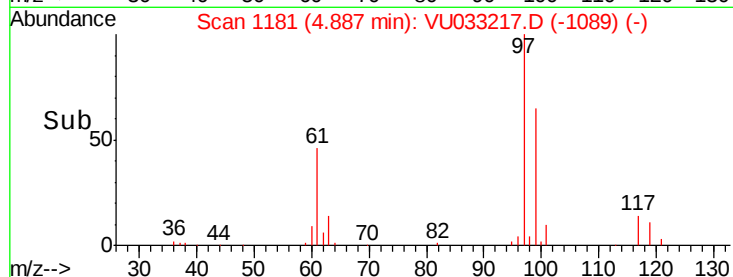
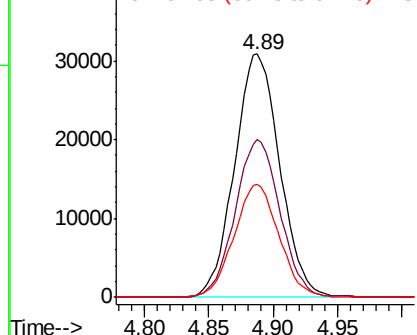
#30  
 1,1,1-Trichloroethane  
 Concen: 20.010 ug/L  
 RT: 4.89 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VU033217.D  
 Acq: 12 Jul 2019 13:19

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8S8

Tgt Ion: 97 Resp: 75272  
 Ion Ratio Lower Upper  
 97 100  
 99 64.1 51.5 77.3  
 61 46.1 36.4 54.6

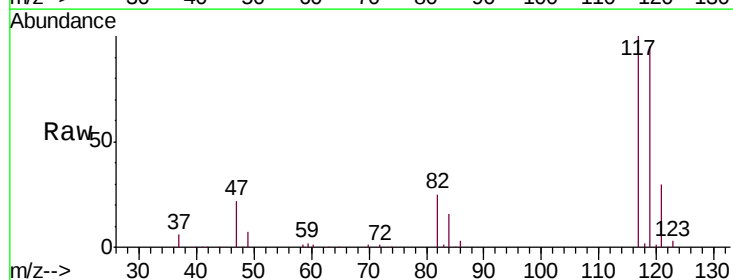


Abundance Ion 97.00 (96.70 to 97.70): VU0  
 Ion 99.00 (98.70 to 99.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0

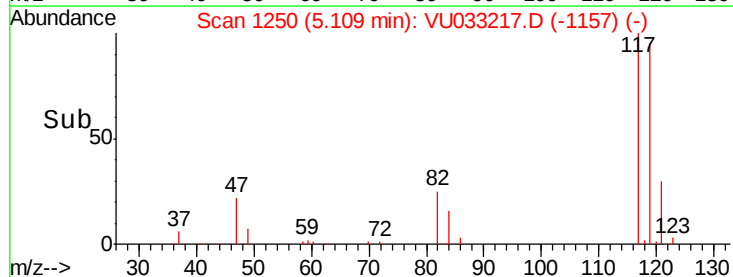
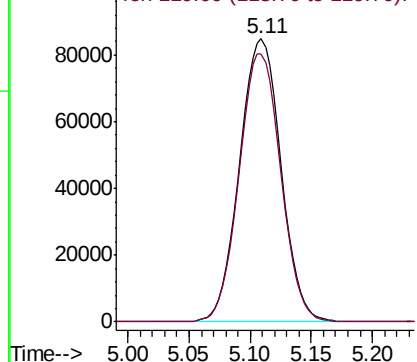


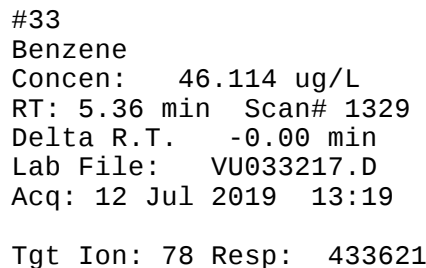
#31  
 Carbon tetrachloride  
 Concen: 60.540 ug/L  
 RT: 5.11 min Scan# 1250  
 Delta R.T. -0.00 min  
 Lab File: VU033217.D  
 Acq: 12 Jul 2019 13:19

Tgt Ion: 117 Resp: 199299  
 Ion Ratio Lower Upper  
 117 100  
 119 95.3 76.9 115.3

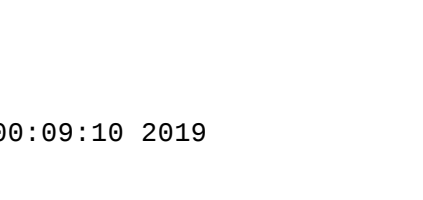
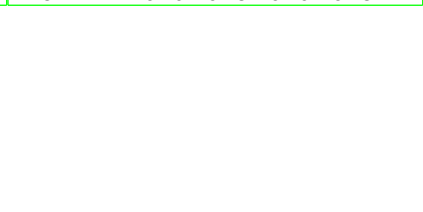
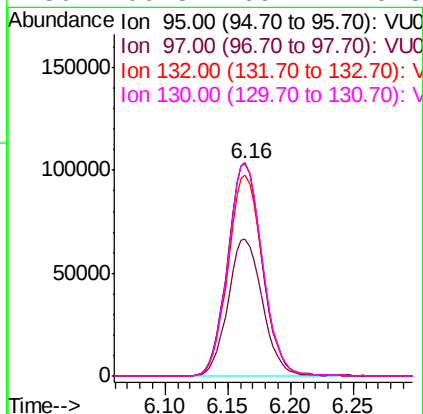
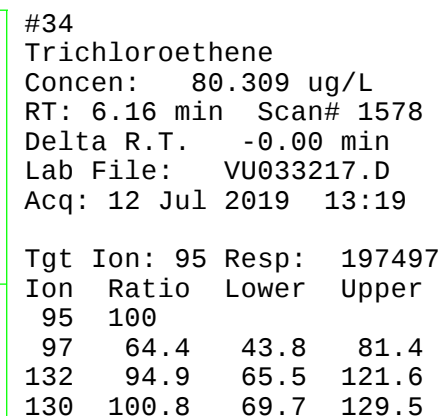
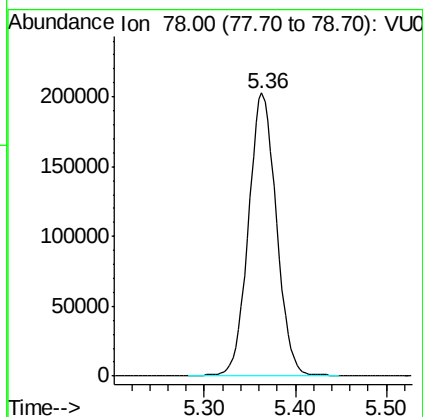


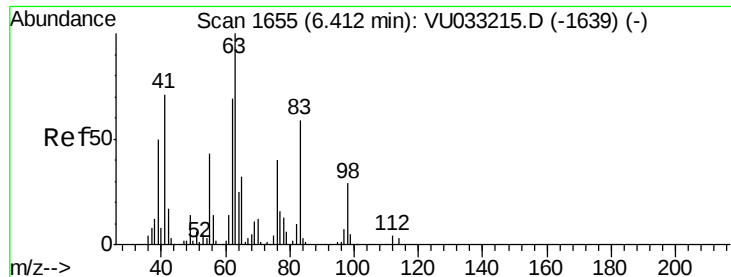
Abundance Ion 117.00 (116.70 to 117.70): V  
 Ion 119.00 (118.70 to 119.70): V





**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
DB8S8

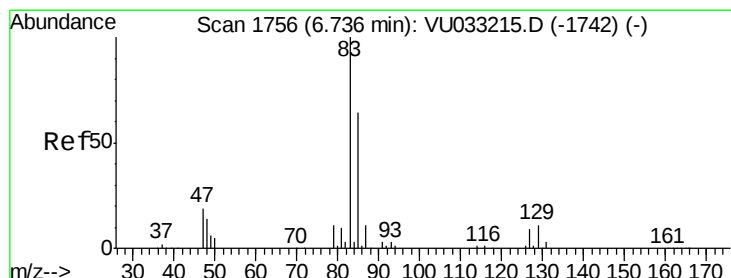
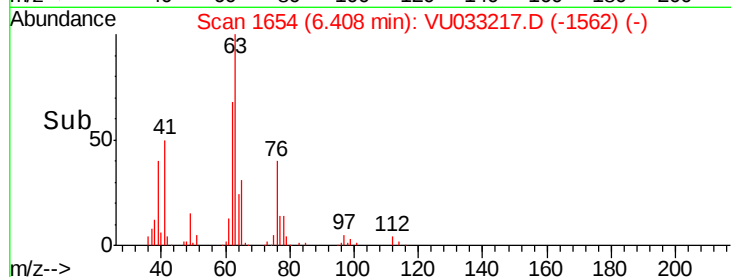
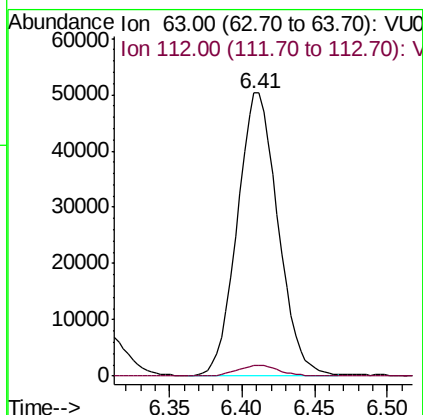
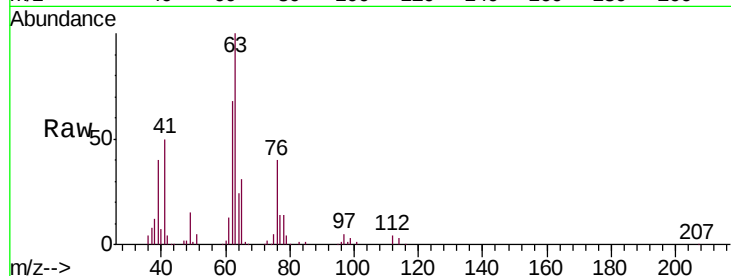




#37  
 1,2-Dichloropropane  
 Concen: 38.418 ug/L  
 RT: 6.41 min Scan# 1654  
 Delta R.T. -0.00 min  
 Lab File: VU033217.D  
 Acq: 12 Jul 2019 13:19

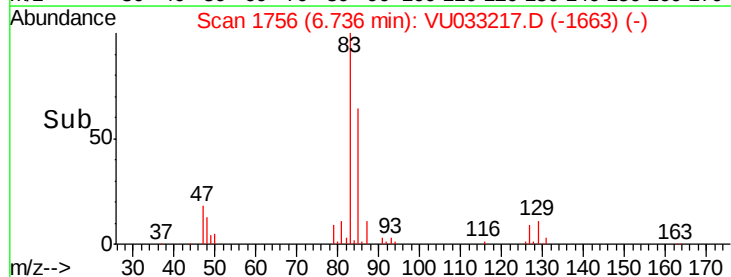
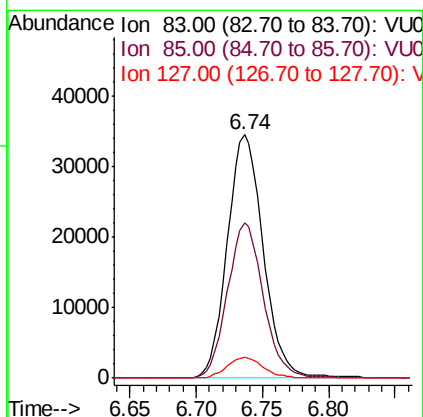
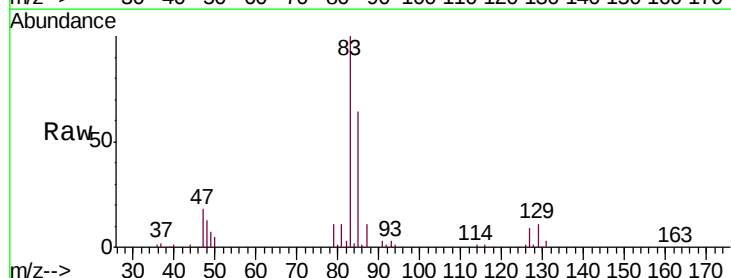
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8S8

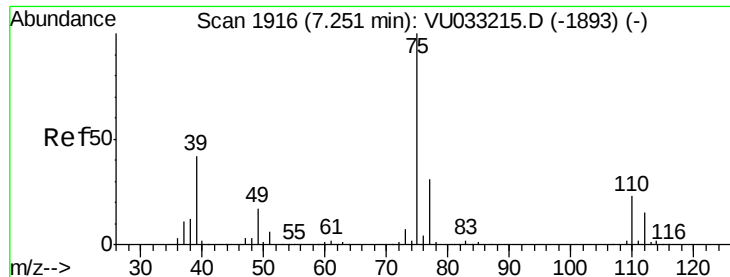
Tgt Ion: 63 Resp: 97971  
 Ion Ratio Lower Upper  
 63 100  
 112 3.9 3.2 4.8



#38  
 Bromodichloromethane  
 Concen: 19.808 ug/L  
 RT: 6.74 min Scan# 1756  
 Delta R.T. -0.00 min  
 Lab File: VU033217.D  
 Acq: 12 Jul 2019 13:19

Tgt Ion: 83 Resp: 65159  
 Ion Ratio Lower Upper  
 83 100  
 85 63.9 45.8 85.0  
 127 8.6 6.8 10.2

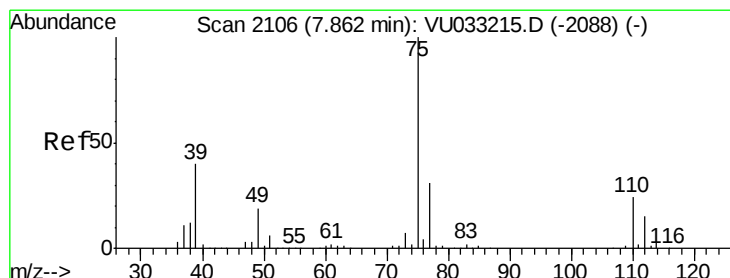
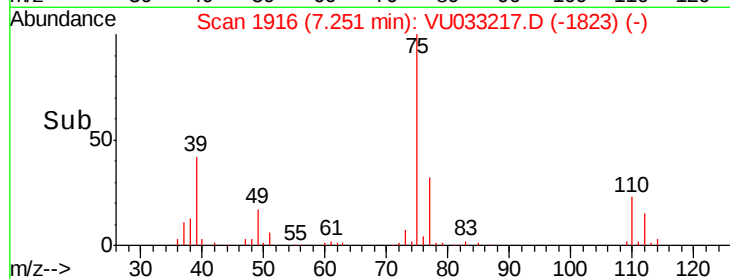
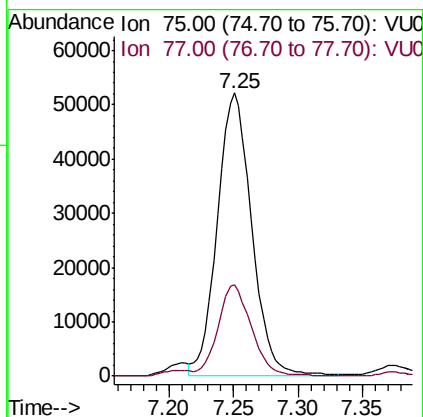
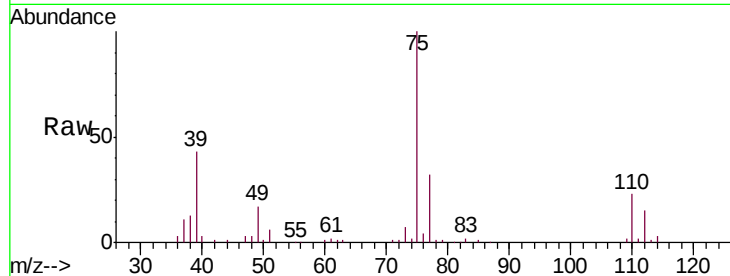




#39  
 cis-1,3-Dichloropropene  
 Concen: 24.649 ug/L  
 RT: 7.25 min Scan# 1916  
 Delta R.T. -0.00 min  
 Lab File: VU033217.D  
 Acq: 12 Jul 2019 13:19

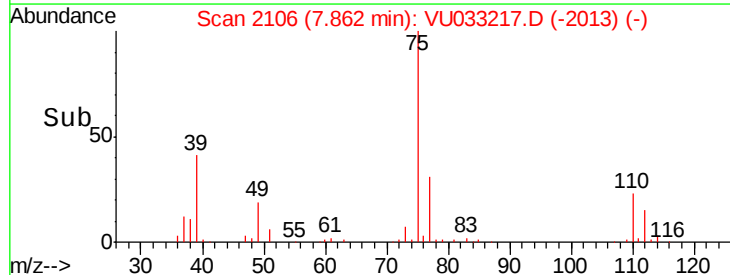
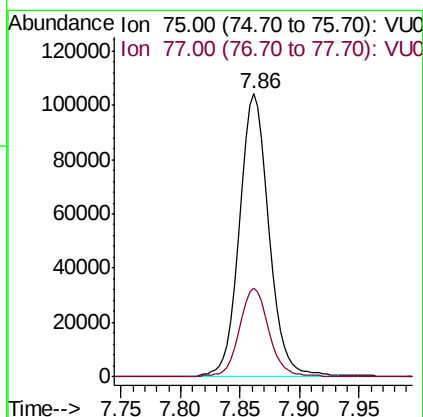
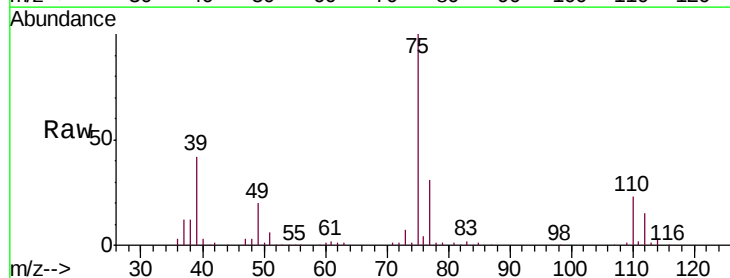
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8S8

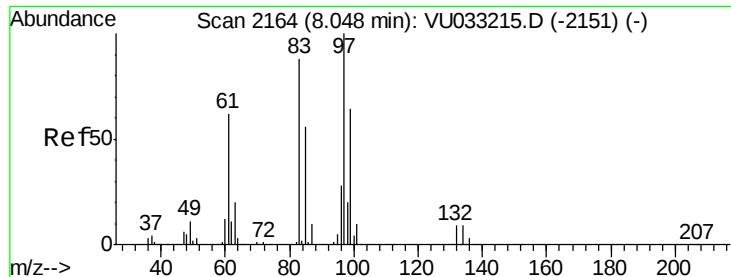
Tgt Ion: 75 Resp: 96377  
 Ion Ratio Lower Upper  
 75 100  
 77 32.5 23.1 42.9



#44  
 trans-1,3-Dichloropropene  
 Concen: 50.990 ug/L  
 RT: 7.86 min Scan# 2106  
 Delta R.T. -0.00 min  
 Lab File: VU033217.D  
 Acq: 12 Jul 2019 13:19

Tgt Ion: 75 Resp: 179801  
 Ion Ratio Lower Upper  
 75 100  
 77 31.4 22.4 41.6

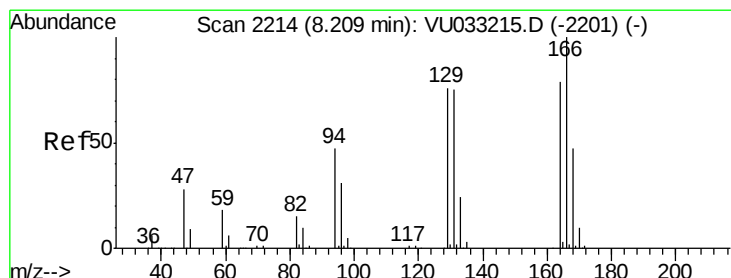
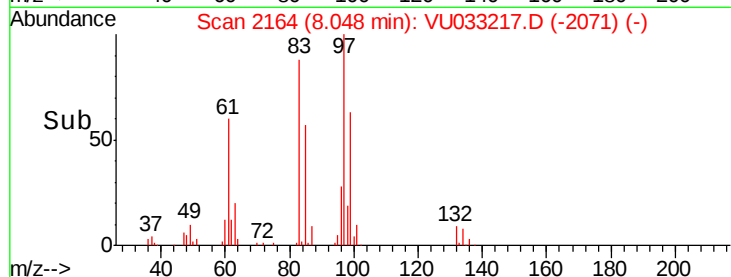
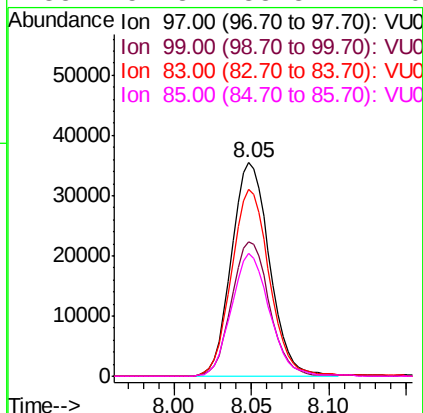
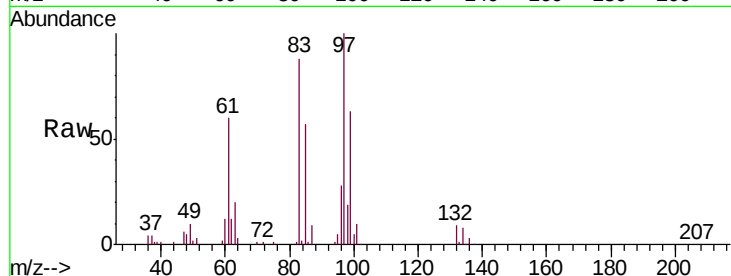




#45  
 1,1,2-Trichloroethane  
 Concen: 25.189 ug/L  
 RT: 8.05 min Scan# 2164  
 Delta R.T. -0.00 min  
 Lab File: VU033217.D  
 Acq: 12 Jul 2019 13:19

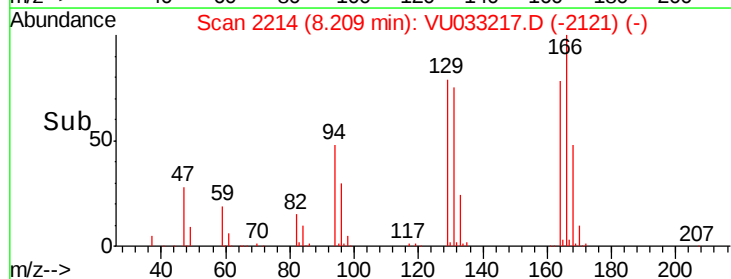
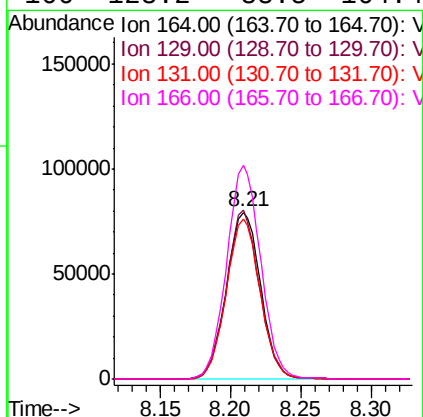
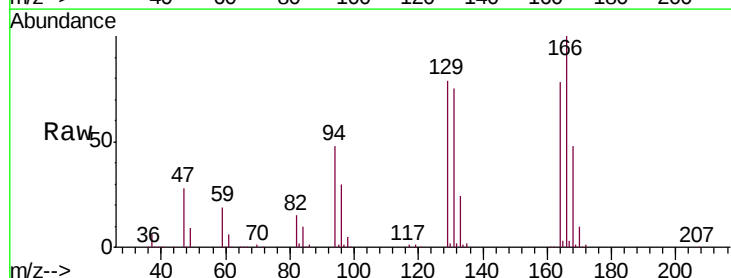
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8S8

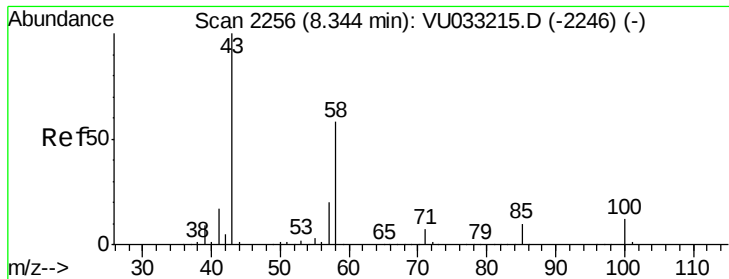
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 60751 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 63.2  | 43.0  | 79.8  |
| 83       | 87.6  | 61.5  | 114.3 |
| 85       | 57.3  | 38.8  | 72.0  |



#46  
 Tetrachloroethene  
 Concen: 70.898 ug/L  
 RT: 8.21 min Scan# 2214  
 Delta R.T. -0.00 min  
 Lab File: VU033217.D  
 Acq: 12 Jul 2019 13:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 134973 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 101.2 | 69.6  | 129.2  |
| 131      | 96.1  | 65.7  | 122.1  |
| 166      | 128.2 | 88.5  | 164.4  |

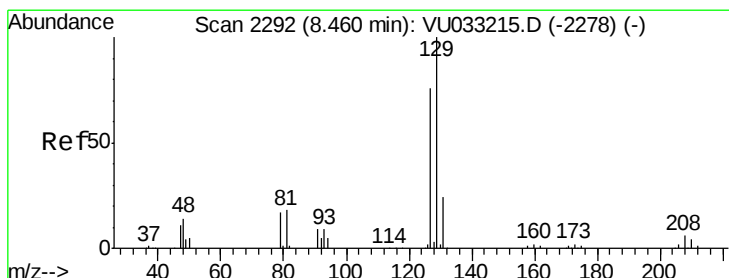
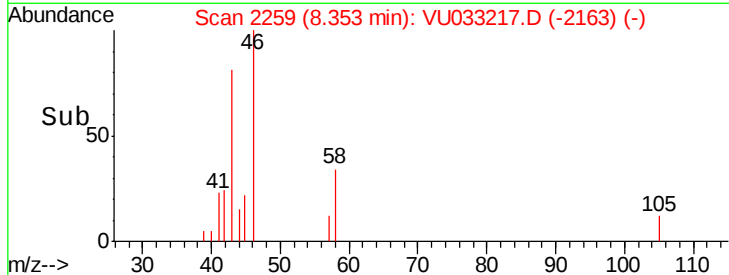
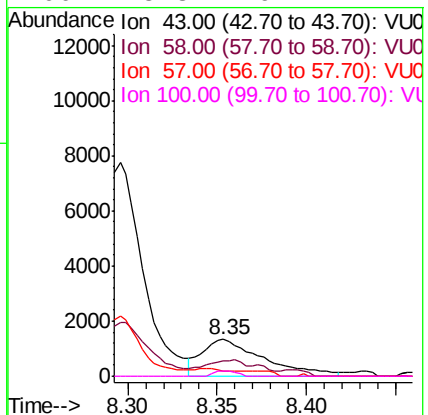
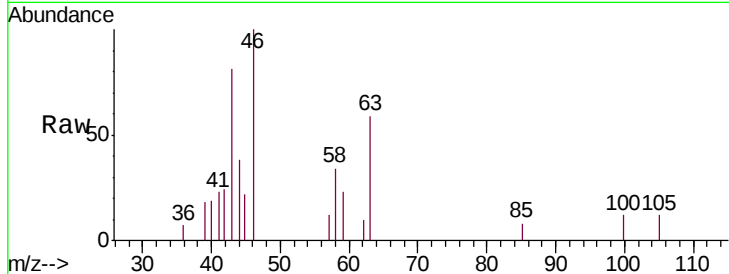




#48  
2-Hexanone  
Concen: 1.149 ug/L  
RT: 8.35 min Scan# 2259  
Delta R.T. 0.01 min  
Lab File: VU033217.D  
Acq: 12 Jul 2019 13:19

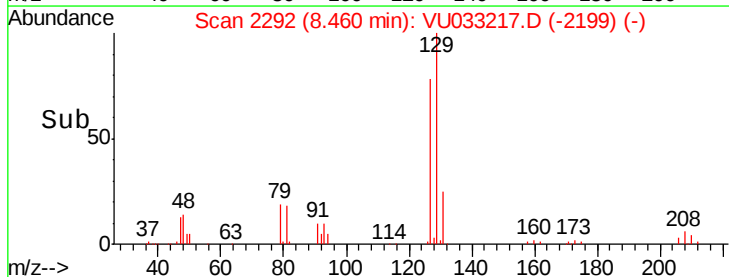
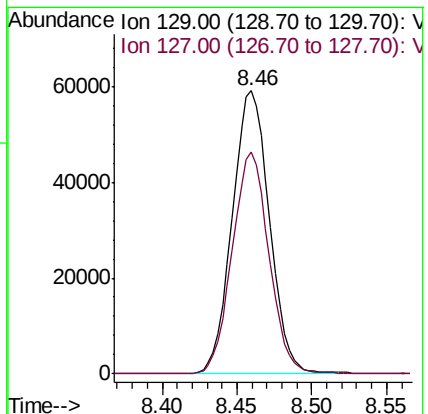
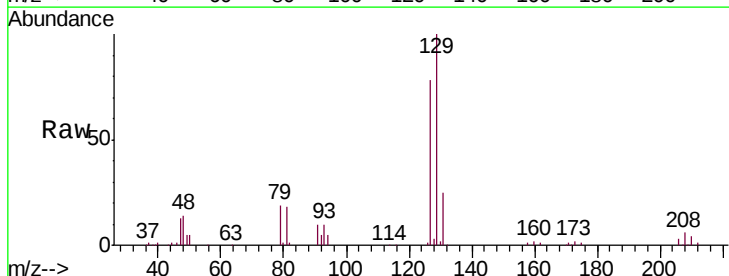
Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8S8

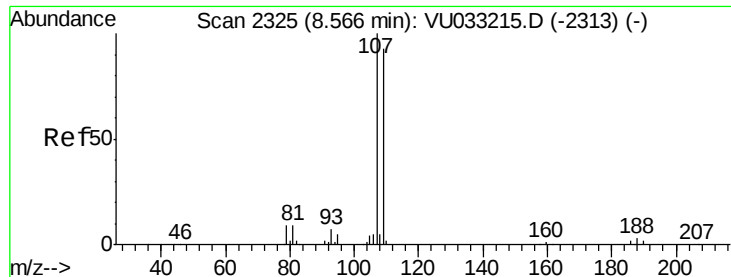
Tgt Ion: 43 Resp: 3202  
Ion Ratio Lower Upper  
43 100  
58 28.5 46.1 69.1#  
57 4.0 15.8 23.8#  
100 5.3 9.4 14.2#



#49  
Dibromochloromethane  
Concen: 38.069 ug/L  
RT: 8.46 min Scan# 2292  
Delta R.T. -0.00 min  
Lab File: VU033217.D  
Acq: 12 Jul 2019 13:19

Tgt Ion: 129 Resp: 102422  
Ion Ratio Lower Upper  
129 100  
127 78.3 54.3 100.9





#50

1,2-Dibromoethane

Concen: 28.940 ug/L

RT: 8.57 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU033217.D

Acq: 12 Jul 2019 13:19

Instrument :

MSVOA\_U

ClientSampleId :

DB8S8

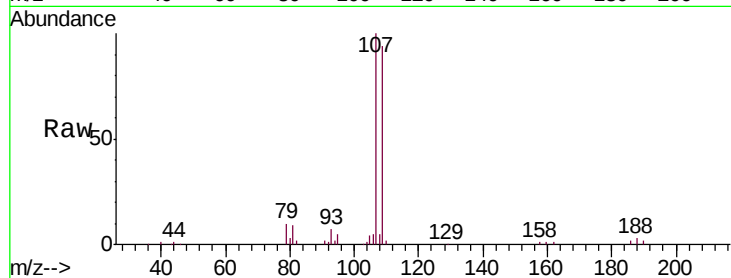
Tgt Ion: 107 Resp: 76102

Ion Ratio Lower Upper

107 100

109 94.2 64.2 119.2

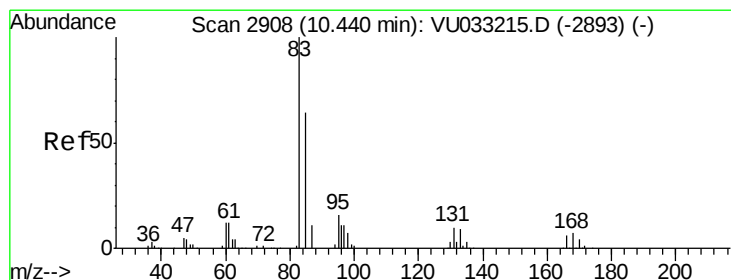
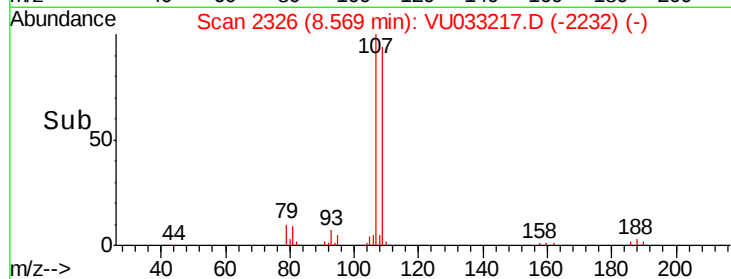
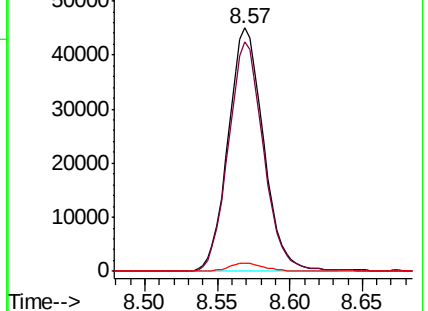
188 3.4 2.6 4.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 37.787 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033217.D

Acq: 12 Jul 2019 13:19

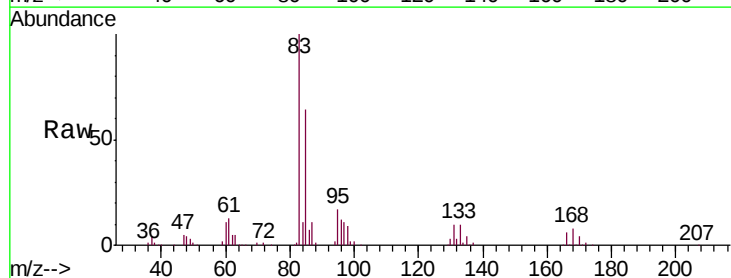
Tgt Ion: 83 Resp: 160084

Ion Ratio Lower Upper

83 100

85 64.4 44.9 83.3

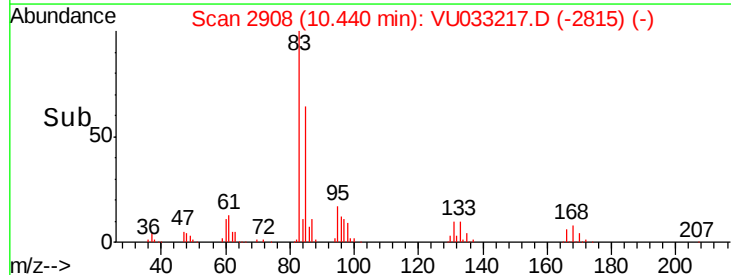
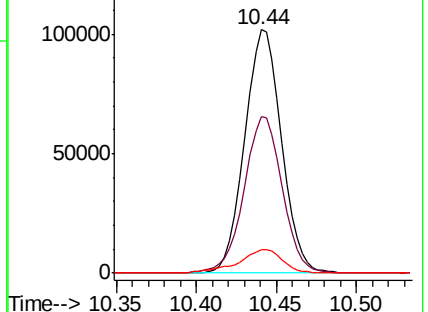
131 9.5 7.6 11.4

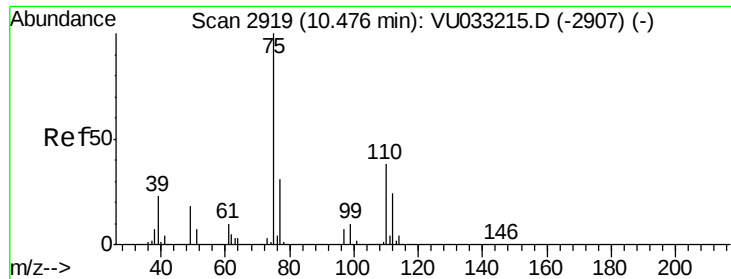


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 5.931 ug/L

RT: 11.47 min Scan# 3227

Delta R.T. 0.99 min

Lab File: VU033217.D

Acq: 12 Jul 2019 13:19

Instrument :

MSVOA\_U

ClientSampleId :

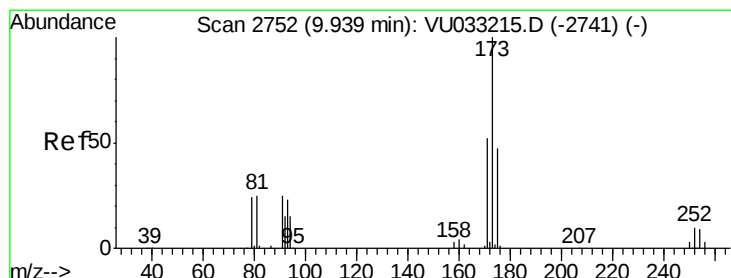
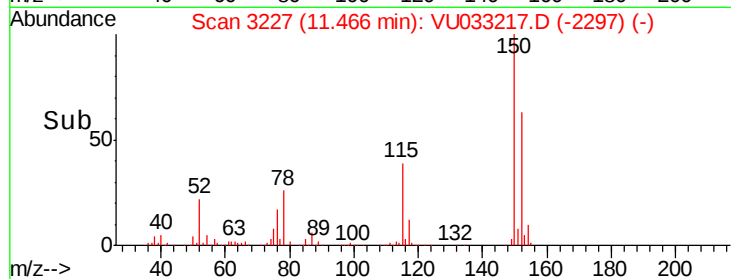
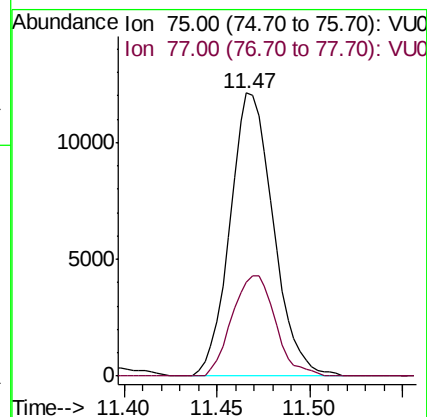
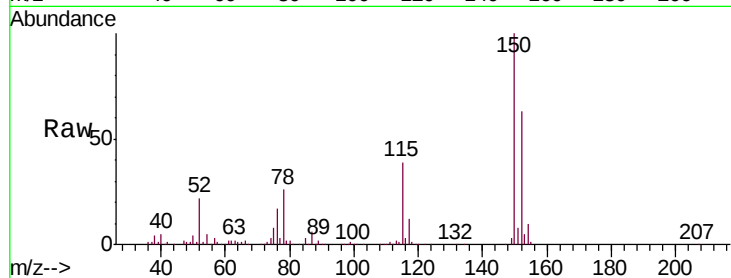
DB8S8

Tgt Ion: 75 Resp: 19690

Ion Ratio Lower Upper

75 100

77 35.5 26.0 39.0



#61

Bromoform

Concen: 49.729 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033217.D

Acq: 12 Jul 2019 13:19

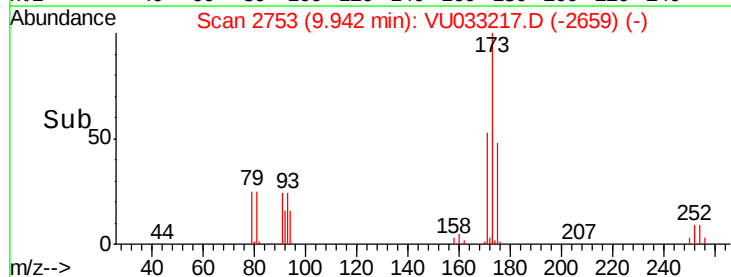
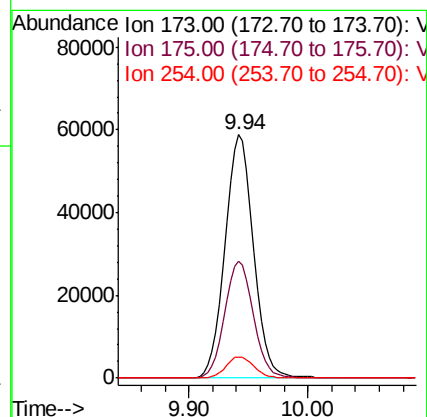
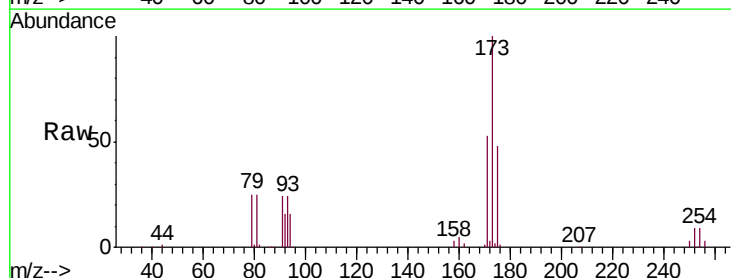
Tgt Ion: 173 Resp: 97501

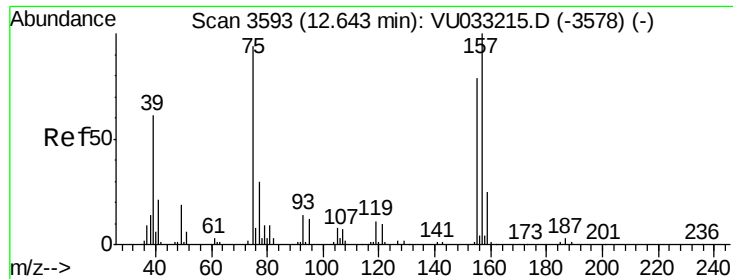
Ion Ratio Lower Upper

173 100

175 48.4 40.0 60.0

254 8.7 7.3 10.9





#66

1,2-Dibromo-3-chloropropane

Concen: 38.559 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. -0.00 min

Lab File: VU033217.D

Acq: 12 Jul 2019 13:19

Instrument :

MSVOA\_U

ClientSampleId :

DB8S8

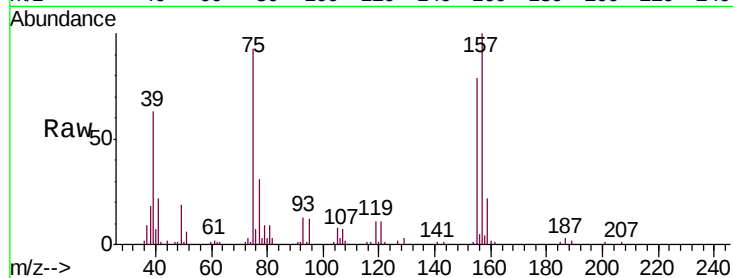
Tgt Ion: 75 Resp: 37298

Ion Ratio Lower Upper

75 100

155 84.7 63.5 95.3

157 107.9 84.6 127.0



Abundance Ion 75.00 (74.70 to 75.70): VU033217.D (-3469) (-)

Ion 155.00 (154.70 to 155.70): VU033217.D (-3469) (-)

Ion 157.00 (156.70 to 157.70): VU033217.D (-3469) (-)

