

Data File : VU029573.D  
Acq On : 20 Feb 2019 12:16  
Operator : JC/SP  
Sample : K1489-07DL 5X  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
ESXG4DL

Quant Time: Feb 21 04:25:54 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Feb 21 04:23:07 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.88  | 114  | 206423   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 200040   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 106926   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 53104    | 3.83     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 76.60%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 52000    | 4.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 84.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.27   | 63    | 86608    | 2.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 57.40%# |
| 20) 2-Butanone-d5              | 4.19   | 46    | 164857   | 57.17    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 114.34% |
| 24) Chloroform-d               | 4.65   | 84    | 110591   | 5.02     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 100.40% |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 60210    | 5.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 102.40% |
| 32) Benzene-d6                 | 5.34   | 84    | 223731   | 4.65     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.00%  |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 70740    | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 99.60%  |
| 41) Toluene-d8                 | 7.56   | 98    | 211601   | 4.46     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 89.20%  |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 27656    | 4.36     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 87.20%  |
| 46) 2-Hexanone-d5              | 8.31   | 63    | 161418   | 55.22    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 110.44% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 64662    | 5.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 104.80% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 97435    | 4.94     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 98.80%  |

#### Target Compounds

|                                |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 5) Vinyl chloride              | 1.40  | 62  | 249263 | 12.539 | ug/L   | 99     |
| 6) Bromomethane                | 1.63  | 94  | 578    | 0.050  | ug/L   | 91     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28  | 101 | 1000   | 0.056  | ug/L # | 27     |
| 12) 1,1-Dichloroethene         | 2.28  | 96  | 1228   | 0.072  | ug/L # | 1      |
| 22) cis-1,2-Dichloroethene     | 4.22  | 96  | 80747  | 4.846  | ug/L   | 96     |
| 25) Chloroform                 | 4.67  | 83  | 3536   | 0.130  | ug/L   | 96     |
| 34) Trichloroethene            | 6.18  | 95  | 2056   | 0.124  | ug/L   | 92     |
| 35) Methylcyclohexane          | 6.33  | 83  | 17377  | 0.624  | ug/L # | 21     |
| 37) 1,2-Dichloropropane        | 6.33  | 63  | 7753   | 0.526  | ug/L # | 87     |
| 39) cis-1,3-Dichloropropene    | 7.22  | 75  | 1857   | 0.080  | ug/L   | 85     |
| 47) Tetrachloroethene          | 8.22  | 164 | 1880   | 0.124  | ug/L # | 85     |
| 48) 2-Hexanone                 | 8.37  | 43  | 2120   | 0.342  | ug/L # | 64     |
| 49) Dibromochloromethane       | 8.22  | 129 | 1590   | 0.104  | ug/L # | 11     |
| 59) 1,2,3-Trichloropropane     | 11.48 | 75  | 10560  | 1.116  | ug/L   | 97     |
| 66) 1,2-Dibromo-3-chloropropan | 12.47 | 75  | 499    | 0.223  | ug/L # | 1      |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU022019\  
Quantitation Report (Not Reviewed)

Data File : VU029573.D  
Acq On : 20 Feb 2019 12:16  
Operator : JC/SP  
Sample : K1489-07DL 5X  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
ESXG4DL

Quant Time: Feb 21 04:25:54 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Feb 21 04:23:07 2019  
Response via : Initial Calibration

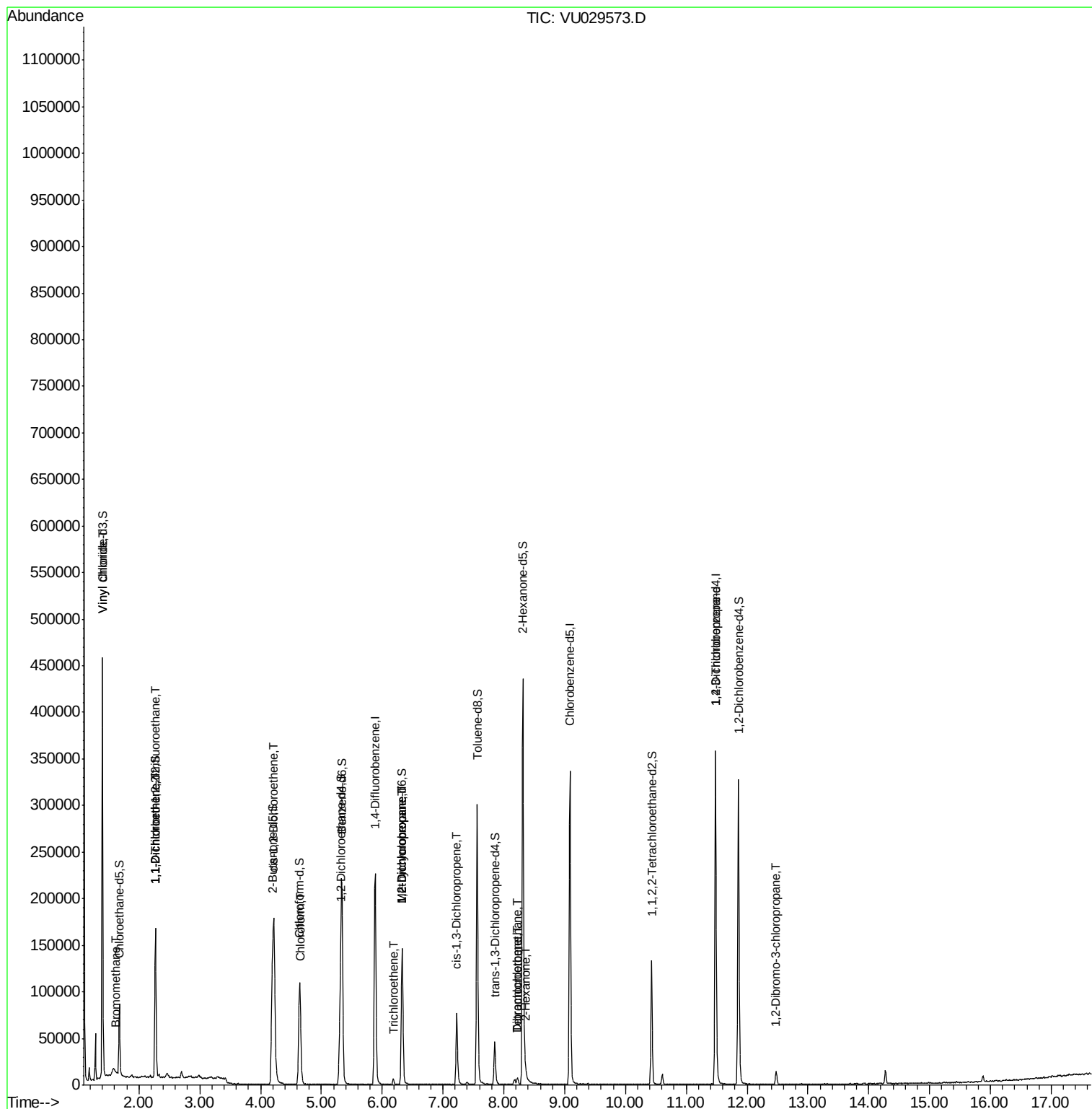
| Internal Standards                                                   | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

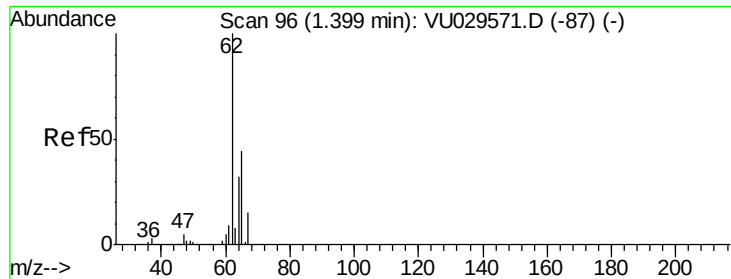
Data File : VU029573.D

```
Acq On       : 20 Feb 2019  12:16
Operator     : JC/SP
Sample       : K1489-07DL 5X
Misc         : 25.0mL/MSV0A_U/WATER
ALS Vial     : 4      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
ESXG4DL

Quant Time: Feb 21 04:25:54 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Feb 21 04:23:07 2019  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 12.539 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU029573.D

Acq: 20 Feb 2019 12:16

Instrument :

MSVOA\_U

ClientSampleId :

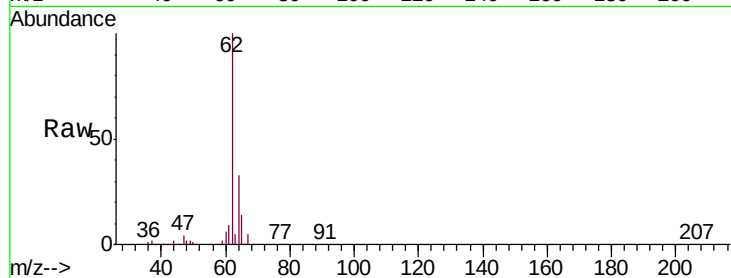
ESXG4DL

Tgt Ion: 62 Resp: 249263

Ion Ratio Lower Upper

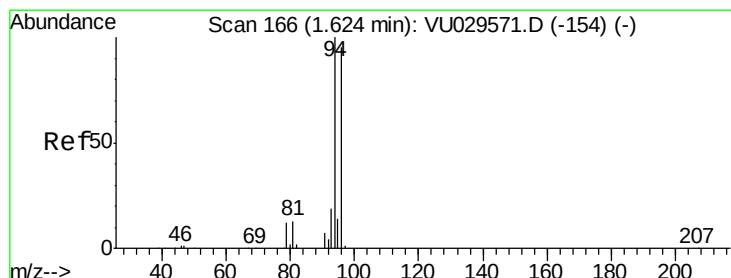
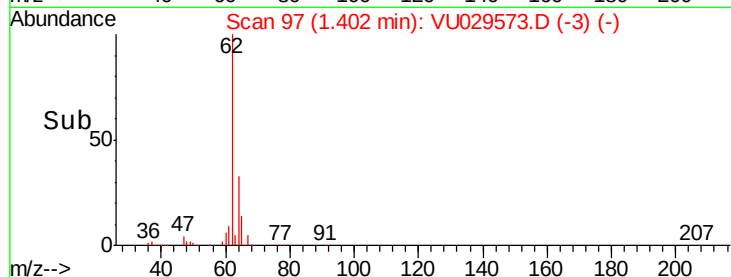
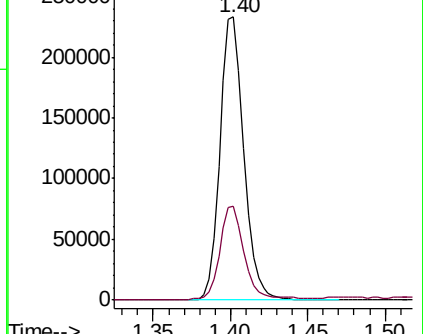
62 100

64 33.1 23.5 43.7



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 0.050 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.01 min

Lab File: VU029573.D

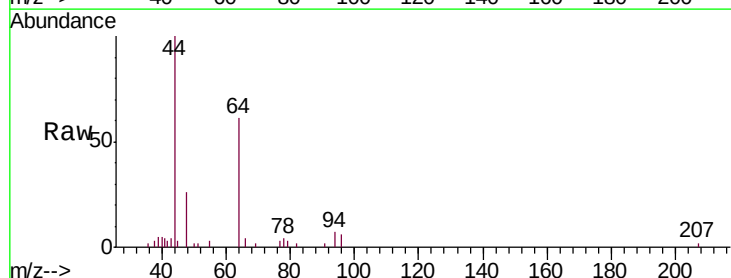
Acq: 20 Feb 2019 12:16

Tgt Ion: 94 Resp: 578

Ion Ratio Lower Upper

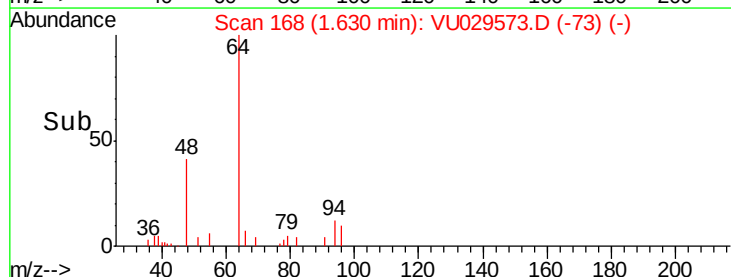
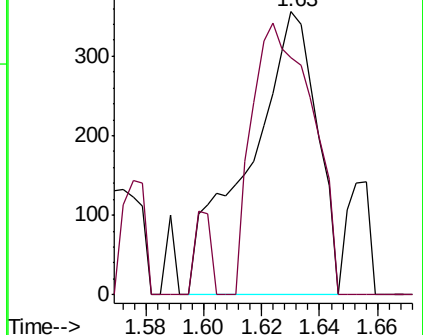
94 100

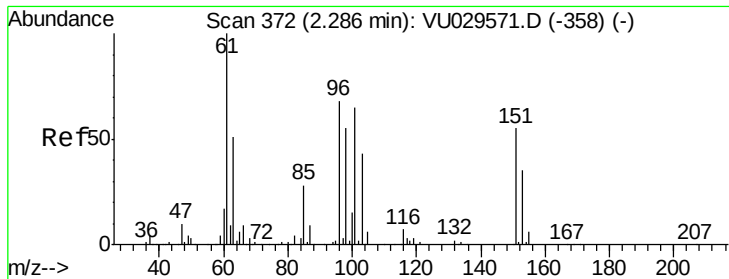
96 84.0 65.2 121.0



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#10

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

Concen: 0.056 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.01 min

Lab File: VU029573.D

Acq: 20 Feb 2019 12:16

Instrument :

MSVOA\_U

ClientSampleId :

ESXG4DL

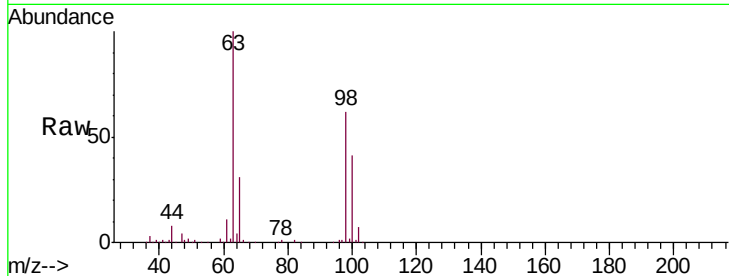
Tgt Ion: 101 Resp: 1000

Ion Ratio Lower Upper

101 100

85 21.7 35.1 52.7#

151 0.0 67.0 100.6#

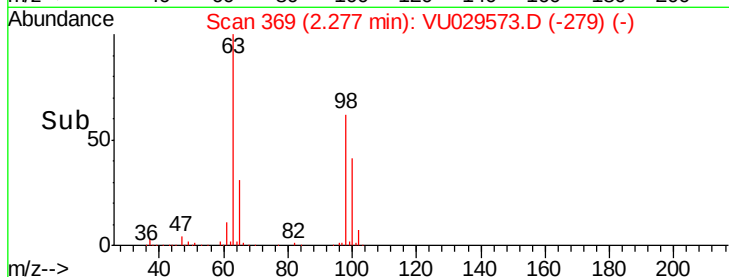
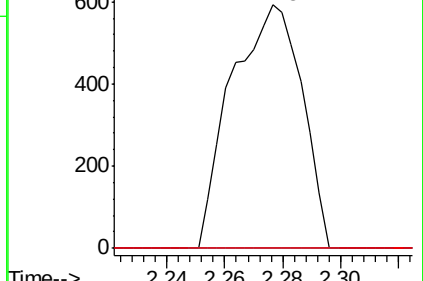


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V

2.28



#12

1,1-Dichloroethene

Concen: 0.072 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.01 min

Lab File: VU029573.D

Acq: 20 Feb 2019 12:16

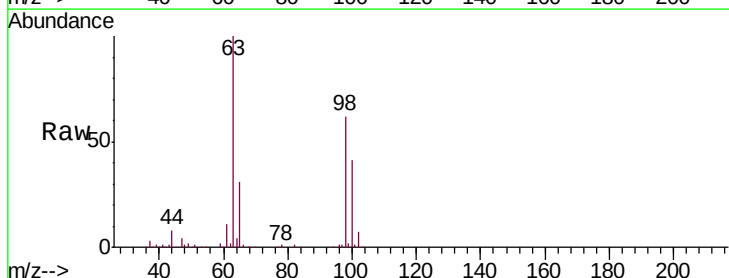
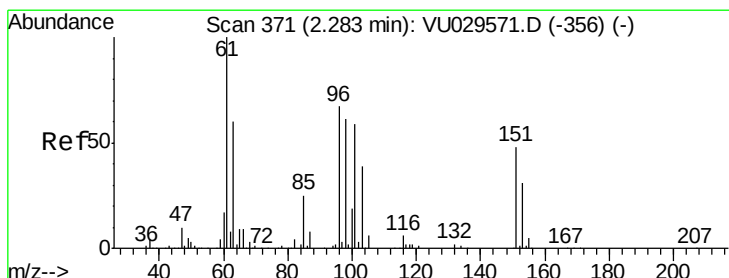
Tgt Ion: 96 Resp: 1228

Ion Ratio Lower Upper

96 100

61 818.2 115.1 213.7#

63 7391.0 83.5 155.1#

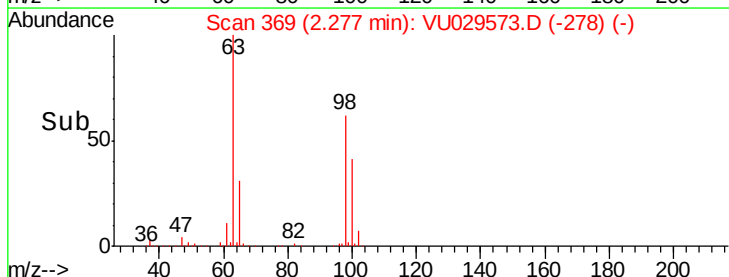
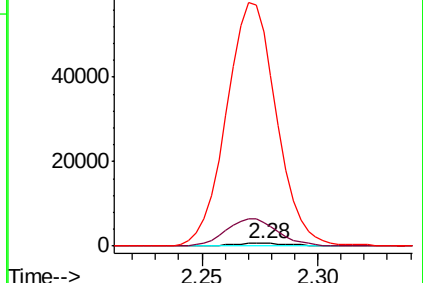


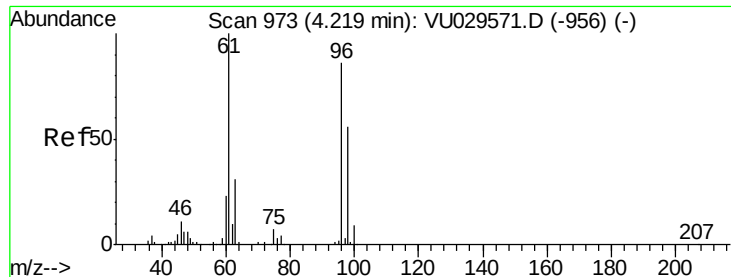
Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0

2.28



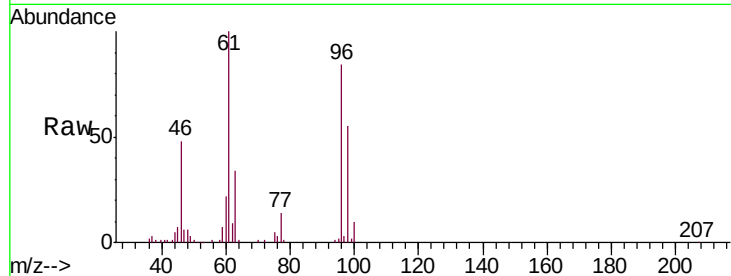


#22

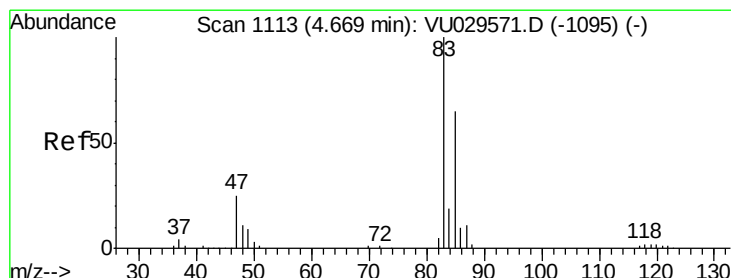
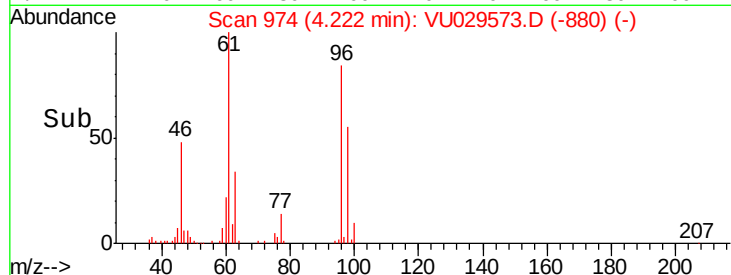
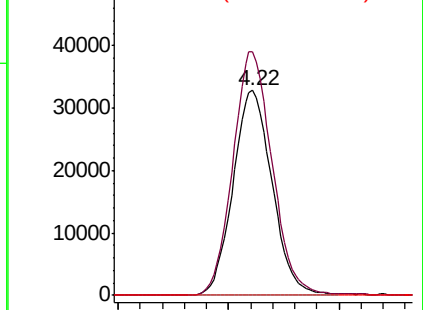
cis-1,2-Dichloroethene  
 Concen: 4.846 ug/L  
 RT: 4.22 min Scan# 974  
 Delta R.T. 0.00 min  
 Lab File: VU029573.D  
 Acq: 20 Feb 2019 12:16

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ESXG4DL

Tgt Ion: 96 Resp: 80747  
 Ion Ratio Lower Upper  
 96 100  
 61 118.9 79.9 148.5  
 68 0.0 0.0 0.0



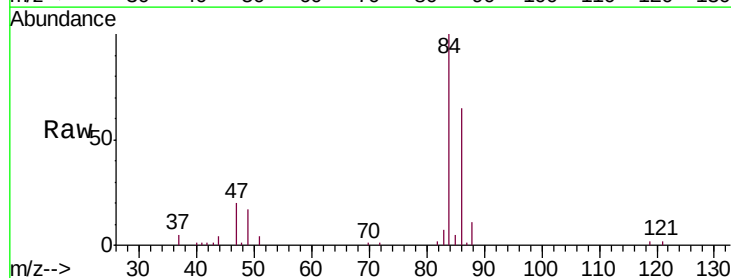
Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0



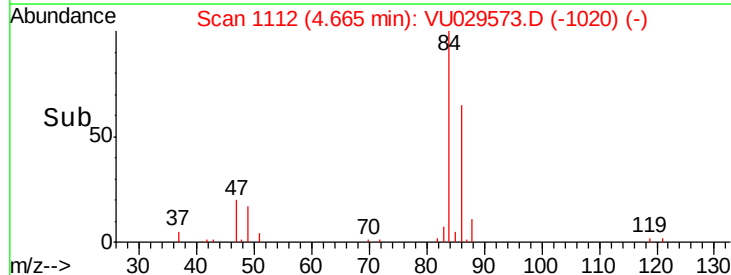
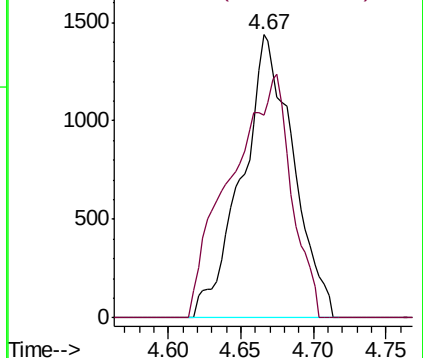
#25

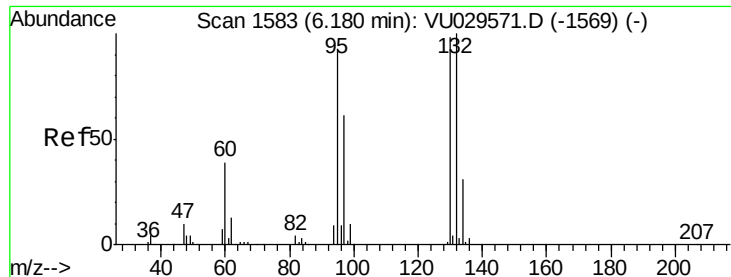
Chloroform  
 Concen: 0.130 ug/L  
 RT: 4.67 min Scan# 1112  
 Delta R.T. -0.00 min  
 Lab File: VU029573.D  
 Acq: 20 Feb 2019 12:16

Tgt Ion: 83 Resp: 3536  
 Ion Ratio Lower Upper  
 83 100  
 85 71.5 47.8 88.8



Abundance Ion 83.05 (82.75 to 83.75): VU0  
 Ion 85.00 (84.70 to 85.70): VU0





#34

Trichloroethene

Concen: 0.124 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU029573.D

Acq: 20 Feb 2019 12:16

Instrument :

MSVOA\_U

ClientSampleId :

ESXG4DL

Tgt Ion: 95 Resp: 2056

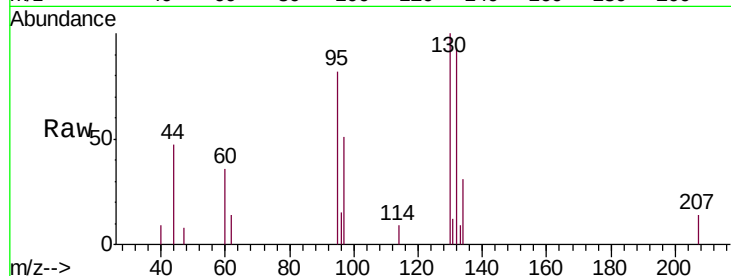
Ion Ratio Lower Upper

95 100

97 62.3 46.3 86.1

132 113.9 72.9 135.3

130 122.3 79.2 147.0

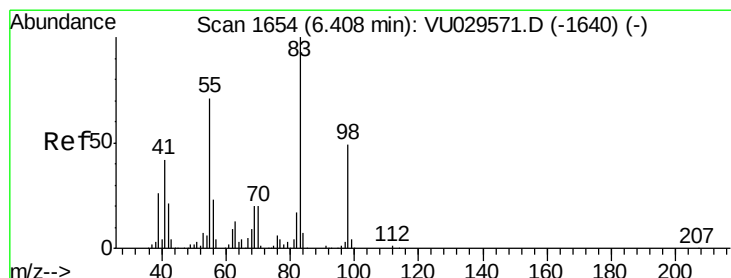
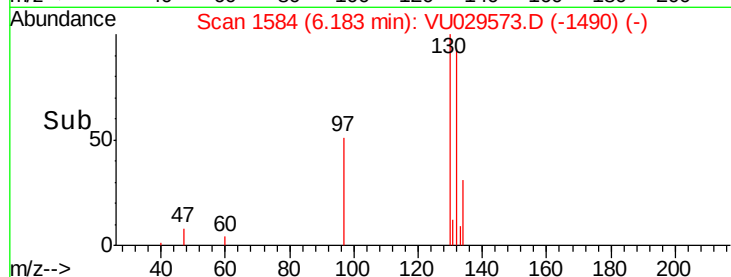
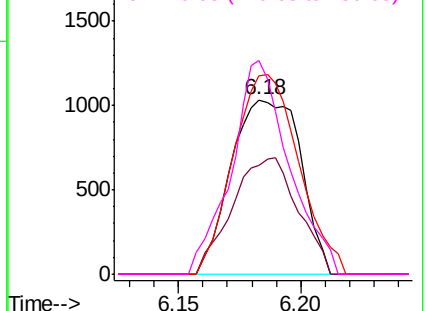


Abundance Ion 95.00 (94.70 to 95.70): VU029571.D (-1569) (-)

Ion 96.95 (96.65 to 97.65): VU029571.D (-1569) (-)

Ion 131.95 (131.65 to 132.65): VU029571.D (-1569) (-)

Ion 129.95 (129.65 to 130.65): VU029571.D (-1569) (-)



#35

Methylcyclohexane

Concen: 0.624 ug/L

RT: 6.33 min Scan# 1629

Delta R.T. -0.08 min

Lab File: VU029573.D

Acq: 20 Feb 2019 12:16

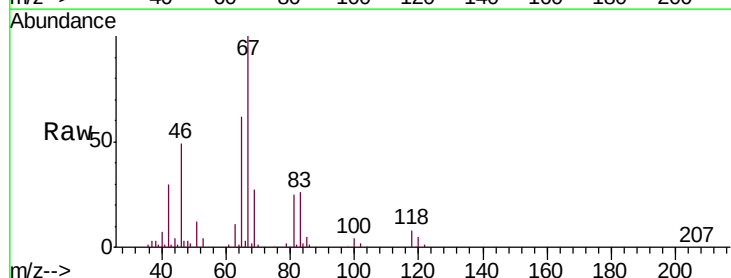
Tgt Ion: 83 Resp: 17377

Ion Ratio Lower Upper

83 100

55 0.0 55.9 83.9#

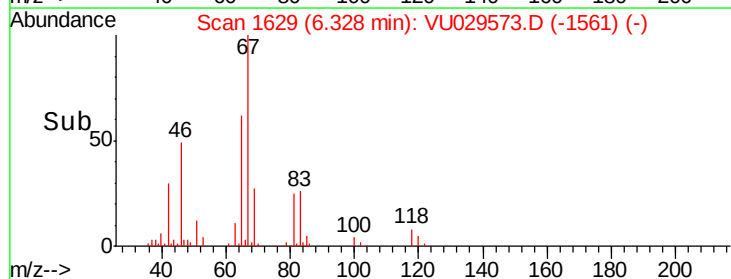
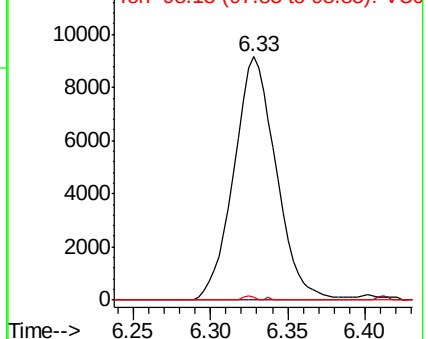
98 0.4 38.6 57.8#

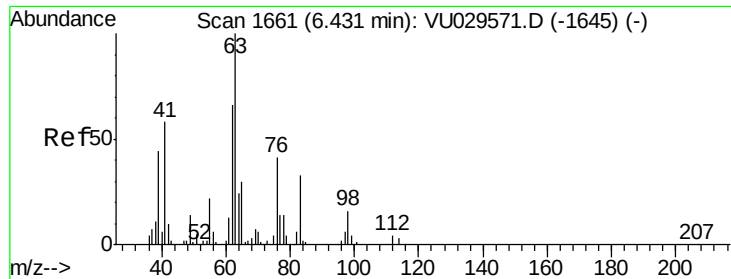


Abundance Ion 83.15 (82.85 to 83.85): VU029573.D (-1561) (-)

Ion 55.10 (54.80 to 55.80): VU029573.D (-1561) (-)

Ion 98.15 (97.85 to 98.85): VU029573.D (-1561) (-)

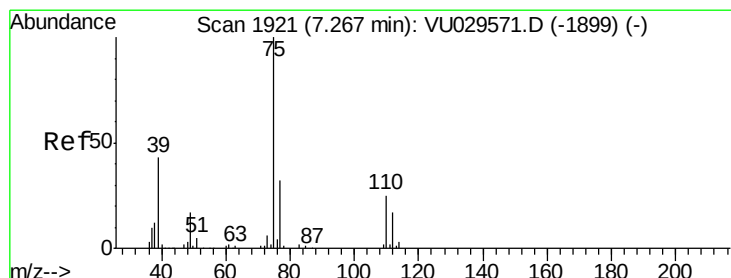
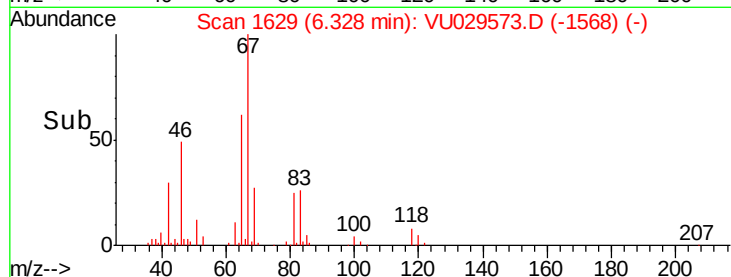
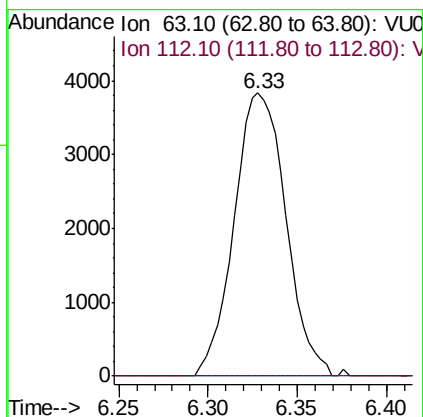
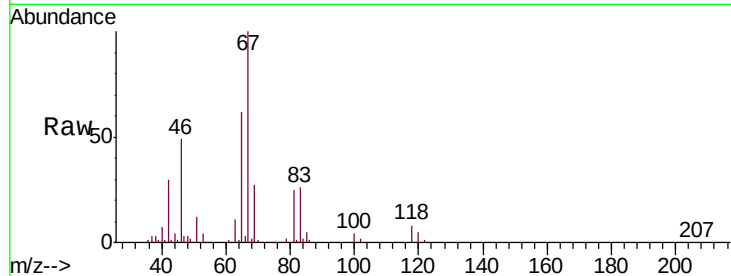




#37  
 1,2-Dichloropropane  
 Concen: 0.526 ug/L  
 RT: 6.33 min Scan# 1629  
 Delta R.T. -0.10 min  
 Lab File: VU029573.D  
 Acq: 20 Feb 2019 12:16

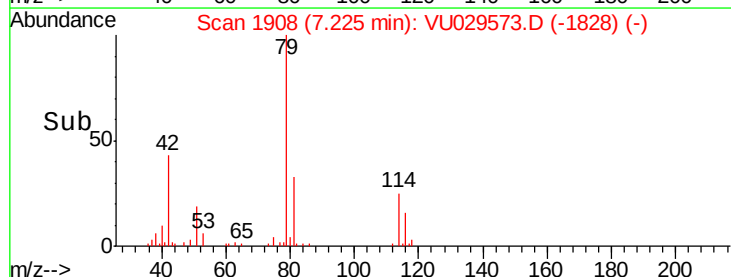
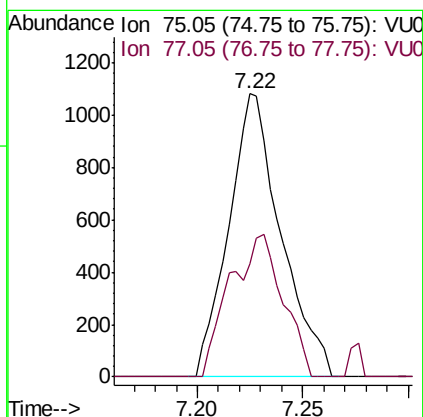
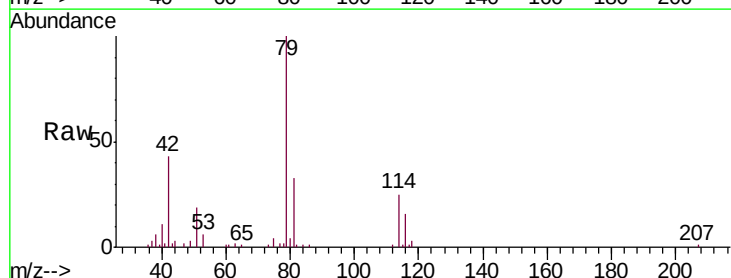
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ESXG4DL

Tgt Ion: 63 Resp: 7753  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.5 5.3#

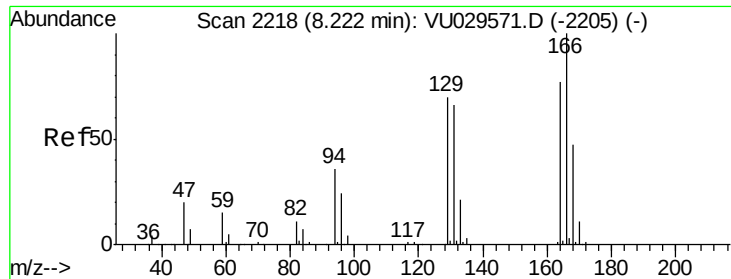


#39  
 cis-1,3-Dichloropropene  
 Concen: 0.080 ug/L  
 RT: 7.22 min Scan# 1908  
 Delta R.T. -0.04 min  
 Lab File: VU029573.D  
 Acq: 20 Feb 2019 12:16

Tgt Ion: 75 Resp: 1857  
 Ion Ratio Lower Upper  
 75 100  
 77 40.0 22.3 41.3







#47

Tetrachloroethene

Concen: 0.124 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU029573.D

Acq: 20 Feb 2019 12:16

Instrument :

MSVOA\_U

ClientSampleId :

ESXG4DL

Tgt Ion:164 Resp: 1880

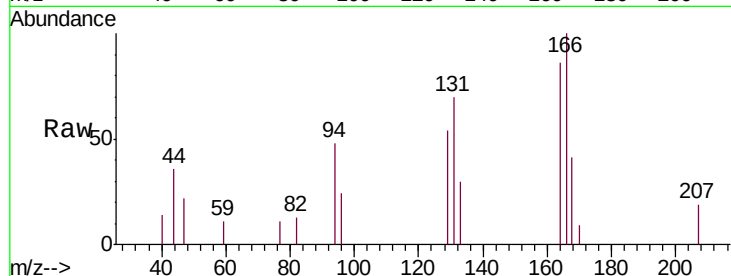
Ion Ratio Lower Upper

164 100

129 62.8 62.9 116.9#

131 81.6 62.1 115.3

166 116.0 89.8 166.8

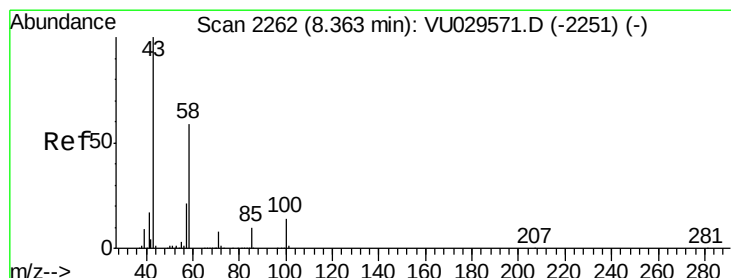
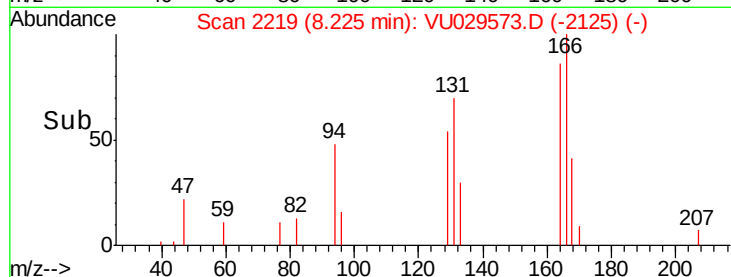
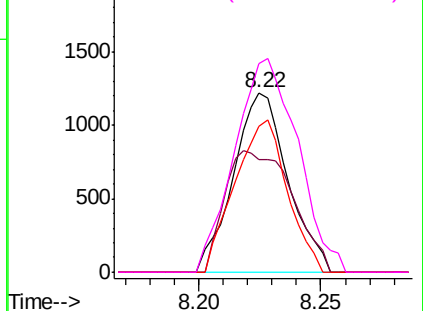


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 0.342 ug/L

RT: 8.37 min Scan# 2263

Delta R.T. 0.00 min

Lab File: VU029573.D

Acq: 20 Feb 2019 12:16

Tgt Ion: 43 Resp: 2120

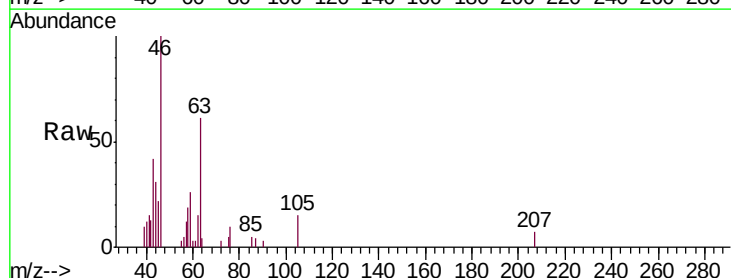
Ion Ratio Lower Upper

43 100

58 23.8 45.7 68.5#

57 26.7 16.4 24.6#

100 2.2 11.1 16.7#

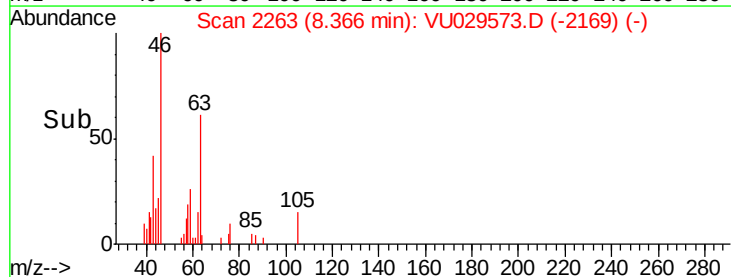
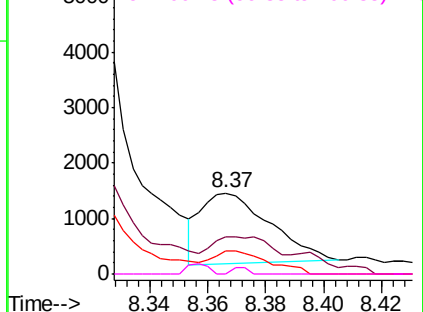


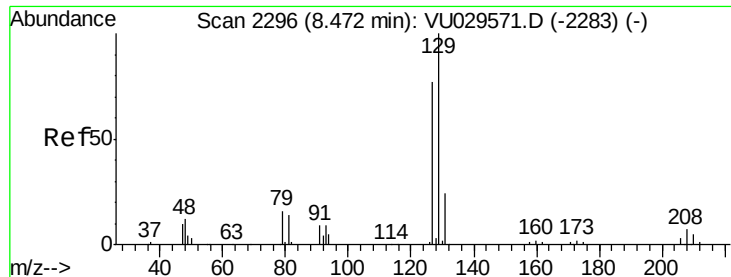
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#49

Dibromochloromethane

Concen: 0.104 ug/L

RT: 8.22 min Scan# 2217

Delta R.T. -0.25 min

Lab File: VU029573.D

Acq: 20 Feb 2019 12:16

Instrument :

MSVOA\_U

ClientSampleId :

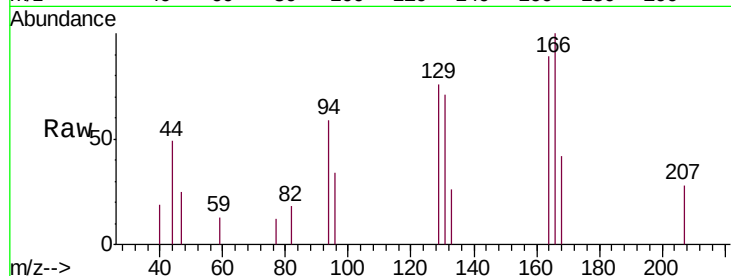
ESXG4DL

Tgt Ion:129 Resp: 1590

Ion Ratio Lower Upper

129 100

127 0.0 53.3 99.1#

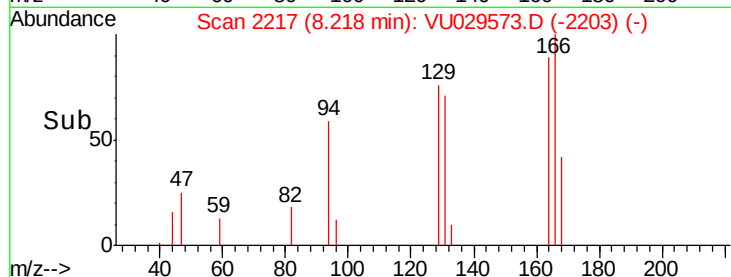


Abundance Ion 128.95 (128.65 to 129.65): V

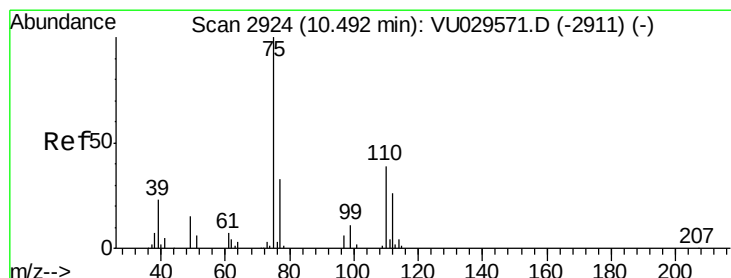
Ion 126.90 (126.60 to 127.60): V

8.22

8.25



Time-->



#59

1,2,3-Trichloropropane

Concen: 1.116 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU029573.D

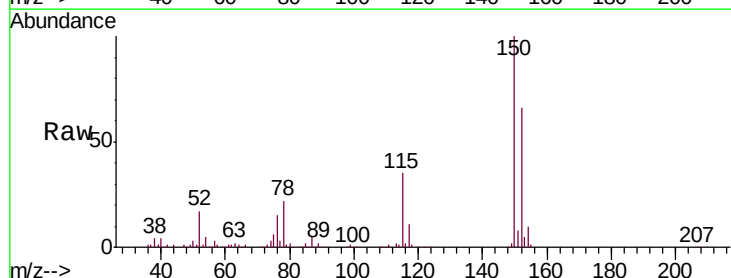
Acq: 20 Feb 2019 12:16

Tgt Ion: 75 Resp: 10560

Ion Ratio Lower Upper

75 100

77 36.8 28.2 42.2

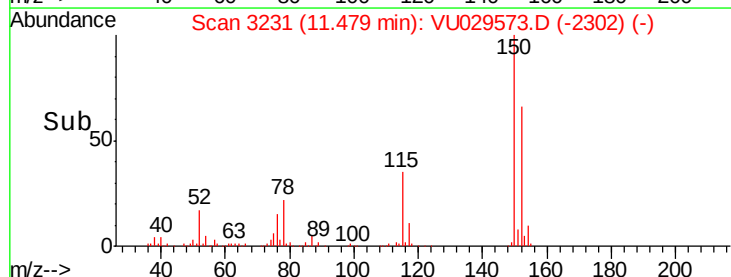


Abundance Ion 75.00 (74.70 to 75.70): VU0

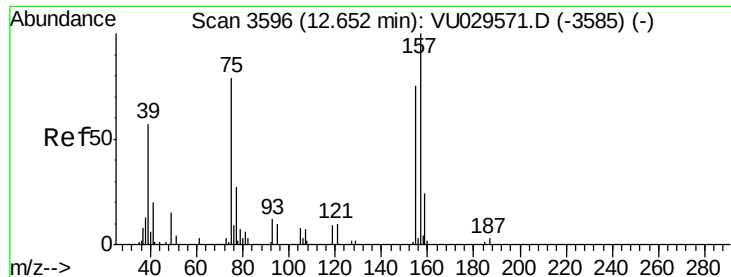
Ion 77.00 (76.70 to 77.70): VU0

11.48

11.55



Time-->



#66

1,2-Dibromo-3-chloropropane

Concen: 0.223 ug/L

RT: 12.47 min Scan# 3539

Delta R.T. -0.18 min

Lab File: VU029573.D

Acq: 20 Feb 2019 12:16

Instrument :

MSVOA\_U

ClientSampleId :

ESXG4DL

Tgt Ion: 75 Resp: 499

Ion Ratio Lower Upper

75 100

155 0.0 75.3 112.9#

157 0.0 103.0 154.4#

