

Data File : VU027784.D  
Acq On : 24 Oct 2018 14:35  
Operator : MD/SY  
Sample : MDL01  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL01

Quant Time: Oct 25 04:40:43 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR102418WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Oct 25 04:31:14 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.89  | 114  | 38741    | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.09  | 117  | 38308    | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.48 | 152  | 18622    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.40   | 65    | 15389    | 4.87     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 97.40%  |
| 7) Chloroethane-d5             | 1.68   | 69    | 11456    | 4.79     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 95.80%  |
| 11) 1,1-Dichloroethene-d2      | 2.28   | 63    | 23255    | 3.85     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 77.00%  |
| 20) 2-Butanone-d5              | 4.21   | 46    | 50698    | 52.80    | ug/L | 0.01    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 105.60% |
| 24) Chloroform-d               | 4.66   | 84    | 28041    | 4.98     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 99.60%  |
| 26) 1,2-Dichloroethane-d4      | 5.31   | 65    | 16952    | 5.05     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.00% |
| 32) Benzene-d6                 | 5.34   | 84    | 52800    | 5.17     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 103.40% |
| 36) 1,2-Dichloropropane-d6     | 6.33   | 67    | 18830    | 5.19     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 103.80% |
| 41) Toluene-d8                 | 7.57   | 98    | 49339    | 5.07     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 101.40% |
| 43) trans-1,3-Dichloropropene- | 7.85   | 79    | 7182     | 4.88     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 97.60%  |
| 46) 2-Hexanone-d5              | 8.32   | 63    | 42628    | 52.53    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 105.06% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.43  | 84    | 14116    | 5.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 102.40% |
| 64) 1,2-Dichlorobenzene-d4     | 11.86  | 152   | 18294    | 5.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 104.20% |

#### Target Compounds

|                                |      |     |      |              | Qvalue |
|--------------------------------|------|-----|------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.21 | 85  | 1225 | 0.326 ug/L   | 98     |
| 3) Chloromethane               | 1.33 | 50  | 1616 | 0.383 ug/L   | 95     |
| 5) Vinyl chloride              | 1.40 | 62  | 1558 | 0.384 ug/L # | 79     |
| 6) Bromomethane                | 1.63 | 94  | 716  | 0.344 ug/L   | 89     |
| 8) Chloroethane                | 1.70 | 64  | 750  | 0.342 ug/L   | 84     |
| 9) Trichlorofluoromethane      | 1.89 | 101 | 1753 | 0.327 ug/L   | 89     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.29 | 101 | 1166 | 0.430 ug/L # | 79     |
| 12) 1,1-Dichloroethene         | 2.29 | 96  | 943  | 0.373 ug/L # | 1      |
| 13) Acetone                    | 2.35 | 43  | 3317 | 4.792 ug/L   | 60     |
| 14) Carbon disulfide           | 2.48 | 76  | 3111 | 0.359 ug/L # | 90     |
| 15) Methyl Acetate             | 2.63 | 43  | 930  | 0.480 ug/L # | 57     |
| 16) Methylene chloride         | 2.71 | 84  | 1479 | 0.497 ug/L   | 93     |
| 17) Methyl tert-butyl Ether    | 3.01 | 73  | 2646 | 0.327 ug/L # | 78     |
| 18) trans-1,2-Dichloroethene   | 2.98 | 96  | 991  | 0.366 ug/L   | 79     |
| 19) 1,1-Dichloroethane         | 3.45 | 63  | 2324 | 0.388 ug/L   | 91     |
| 21) 2-Butanone                 | 4.30 | 43  | 3538 | 3.115 ug/L   | 97     |
| 22) cis-1,2-Dichloroethene     | 4.23 | 96  | 1123 | 0.349 ug/L   | 76     |

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MSVOA\_U  
ClientSampleId :  
MDL01

Quant Time: Oct 25 04:40:43 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR102418WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Oct 25 04:31:14 2018  
Response via : Initial Calibration

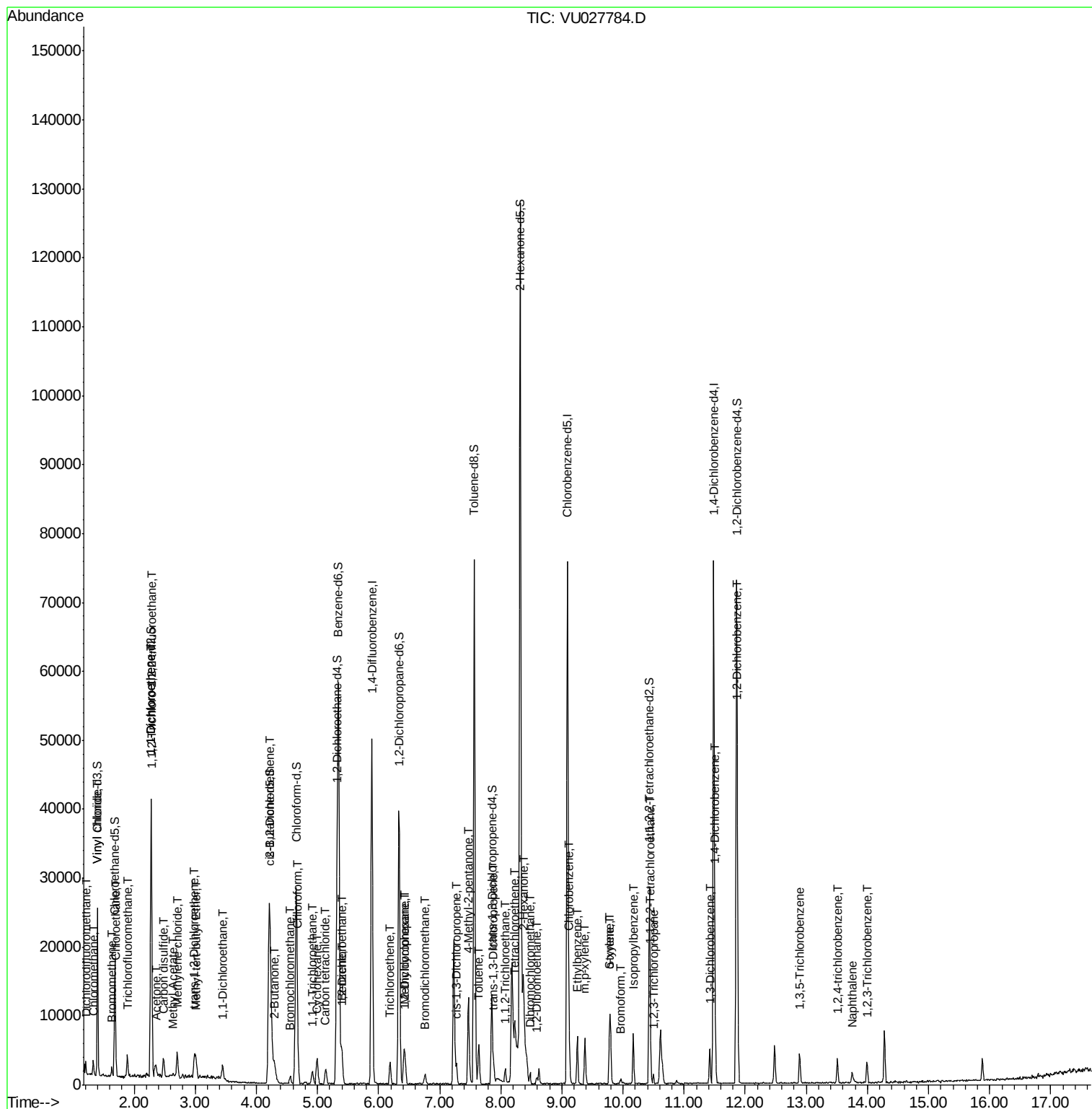
| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane        | 4.55  | 128  | 409      | 0.314 | ug/L   | 92       |
| 25) Chloroform                | 4.68  | 83   | 2160     | 0.359 | ug/L   | 100      |
| 27) 1,2-Dichloroethane        | 5.41  | 62   | 1583     | 0.356 | ug/L # | 79       |
| 29) 1,1,1-Trichloroethane     | 4.92  | 97   | 1807     | 0.328 | ug/L   | 90       |
| 30) Cyclohexane               | 5.00  | 56   | 1956     | 0.317 | ug/L # | 96       |
| 31) Carbon tetrachloride      | 5.13  | 117  | 826      | 0.175 | ug/L # | 16       |
| 33) Benzene                   | 5.39  | 78   | 4461     | 0.350 | ug/L   | 100      |
| 34) Trichloroethene           | 6.19  | 95   | 1185     | 0.359 | ug/L   | 91       |
| 35) Methylcyclohexane         | 6.41  | 83   | 1766     | 0.320 | ug/L   | 91       |
| 37) 1,2-Dichloropropane       | 6.44  | 63   | 1319     | 0.353 | ug/L # | 90       |
| 38) Bromodichloromethane      | 6.76  | 83   | 1488     | 0.333 | ug/L # | 94       |
| 39) cis-1,3-Dichloropropene   | 7.28  | 75   | 1915     | 0.358 | ug/L   | 98       |
| 40) 4-Methyl-2-pentanone      | 7.47  | 43   | 9592     | 3.433 | ug/L # | 91       |
| 42) Toluene                   | 7.64  | 91   | 4813     | 0.351 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 7.88  | 75   | 1907     | 0.423 | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane     | 8.07  | 97   | 709      | 0.314 | ug/L # | 79       |
| 47) Tetrachloroethene         | 8.23  | 164  | 1014     | 0.378 | ug/L   | 89       |
| 48) 2-Hexanone                | 8.37  | 43   | 7514     | 3.784 | ug/L # | 96       |
| 49) Dibromochloromethane      | 8.48  | 129  | 935      | 0.325 | ug/L   | 91       |
| 50) 1,2-Dibromoethane         | 8.59  | 107  | 746      | 0.340 | ug/L # | 86       |
| 51) Chlorobenzene             | 9.12  | 112  | 2877     | 0.341 | ug/L # | 88       |
| 52) Ethylbenzene              | 9.25  | 91   | 5223     | 0.329 | ug/L   | 92       |
| 53) m,p-xylene                | 9.38  | 106  | 1751     | 0.311 | ug/L   | 95       |
| 54) o-xylene                  | 9.78  | 106  | 1854     | 0.337 | ug/L   | 87       |
| 55) Styrene                   | 9.80  | 104  | 3048     | 0.327 | ug/L   | 99       |
| 56) Isopropylbenzene          | 10.17 | 105  | 4939     | 0.324 | ug/L   | 97       |
| 58) 1,1,2,2-Tetrachloroethane | 10.46 | 83   | 1002     | 0.338 | ug/L # | 78       |
| 59) 1,2,3-Trichloropropane    | 10.49 | 75   | 744      | 0.316 | ug/L   | 99       |
| 61) Bromoform                 | 9.96  | 173  | 458      | 0.292 | ug/L # | 86       |
| 62) 1,3-Dichlorobenzene       | 11.42 | 146  | 2399     | 0.366 | ug/L   | 98       |
| 63) 1,4-Dichlorobenzene       | 11.51 | 146  | 2516     | 0.380 | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene       | 11.88 | 146  | 2617     | 0.425 | ug/L   | 97       |
| 67) 1,3,5-Trichlorobenzene    | 12.89 | 180  | 1650     | 0.314 | ug/L   | 96       |
| 68) 1,2,4-trichlorobenzene    | 13.51 | 180  | 1479     | 0.324 | ug/L   | 94       |
| 69) Naphthalene               | 13.75 | 128  | 2397     | 0.323 | ug/L # | 85       |
| 70) 1,2,3-Trichlorobenzene    | 13.98 | 180  | 1262     | 0.300 | ug/L # | 94       |

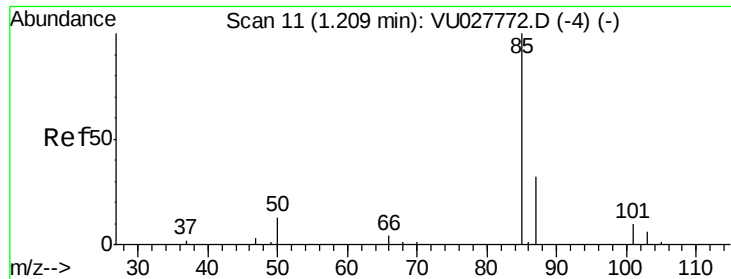
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :  
MDL01

Quant Time: Oct 25 04:40:43 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR102418WMA.M  
Quant Title : TRACE VOA SOM01.0  
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#2

Dichlorodifluoromethane

Concen: 0.326 ug/L

RT: 1.21 min Scan# 11

Delta R.T. -0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

Instrument :

MSVOA\_U

ClientSampleId :

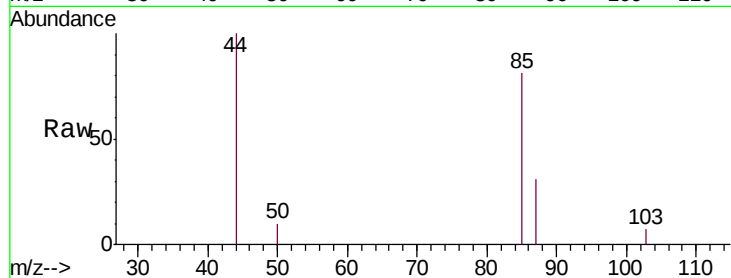
MDL01

Tgt Ion: 85 Resp: 1225

Ion Ratio Lower Upper

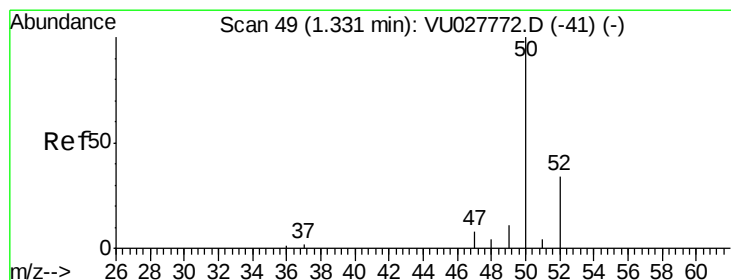
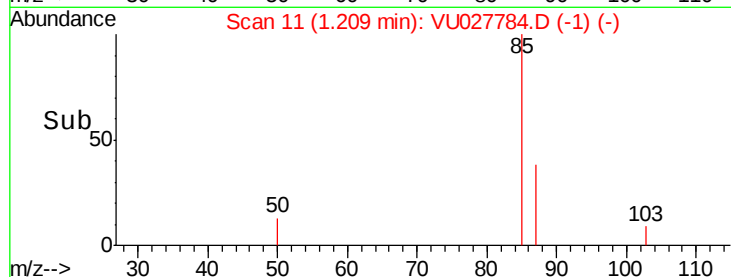
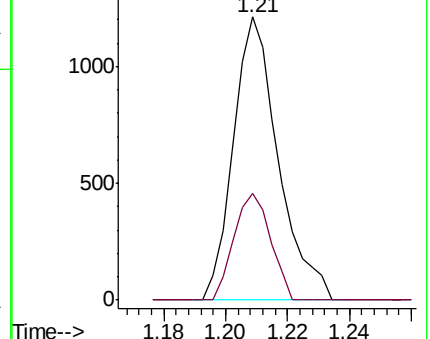
85 100

87 30.6 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#3

Chloromethane

Concen: 0.383 ug/L

RT: 1.33 min Scan# 49

Delta R.T. -0.00 min

Lab File: VU027784.D

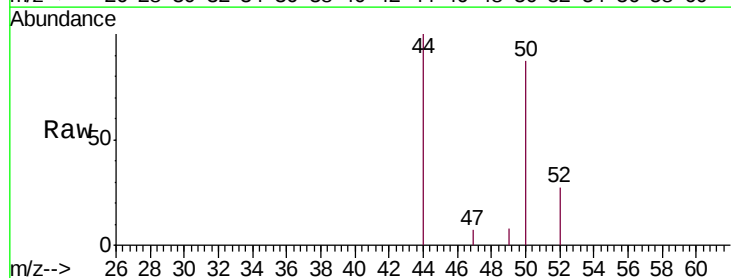
Acq: 24 Oct 2018 14:35

Tgt Ion: 50 Resp: 1616

Ion Ratio Lower Upper

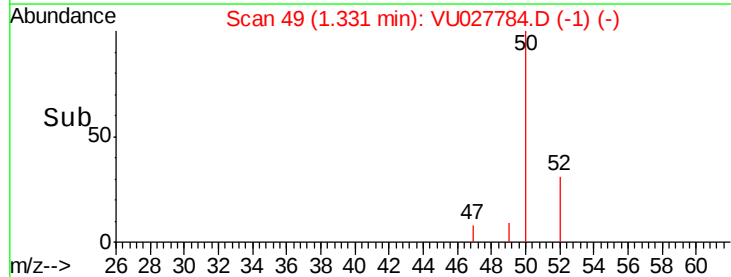
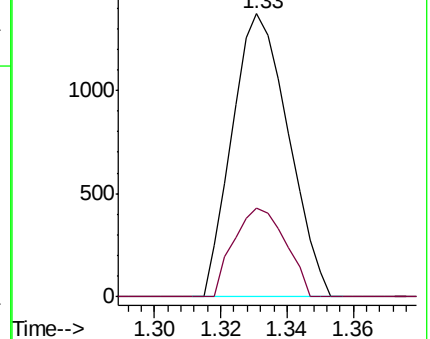
50 100

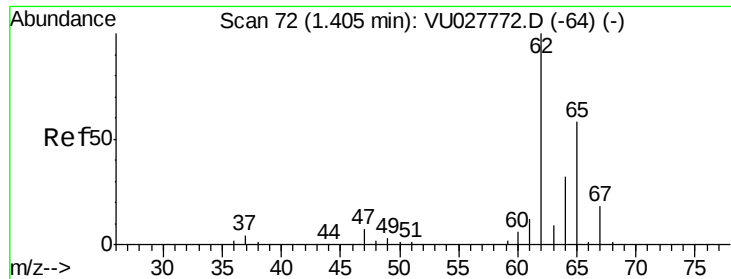
52 31.2 23.7 43.9



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0





#5

Vinyl chloride

Concen: 0.384 ug/L

RT: 1.40 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

Instrument :

MSVOA\_U

ClientSampleId :

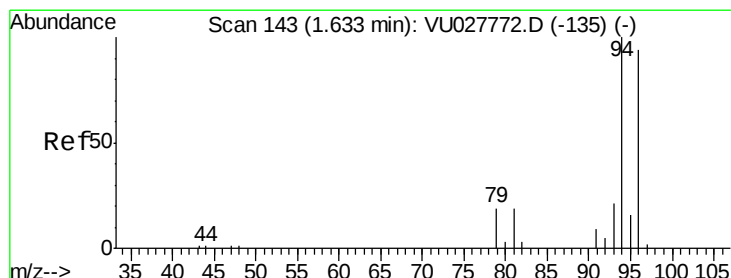
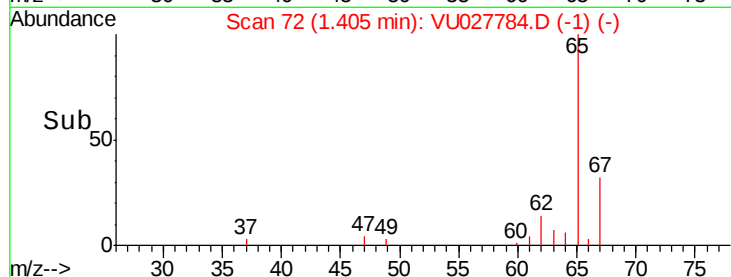
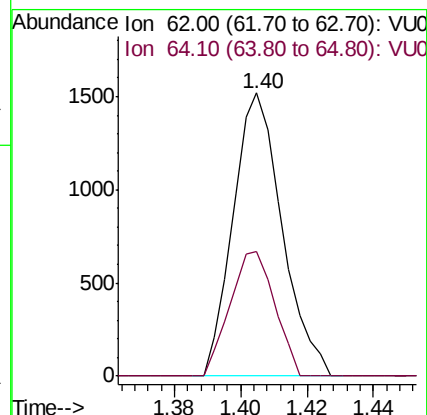
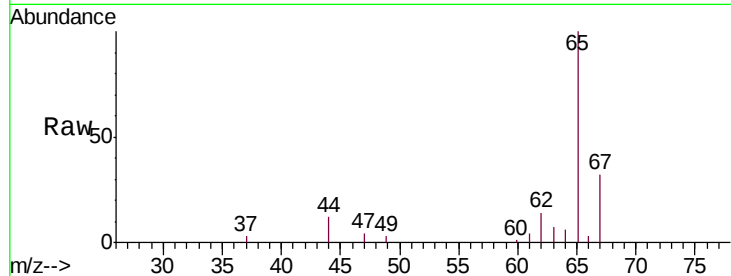
MDL01

Tgt Ion: 62 Resp: 1558

Ion Ratio Lower Upper

62 100

64 44.1 22.7 42.1#



#6

Bromomethane

Concen: 0.344 ug/L

RT: 1.63 min Scan# 143

Delta R.T. -0.00 min

Lab File: VU027784.D

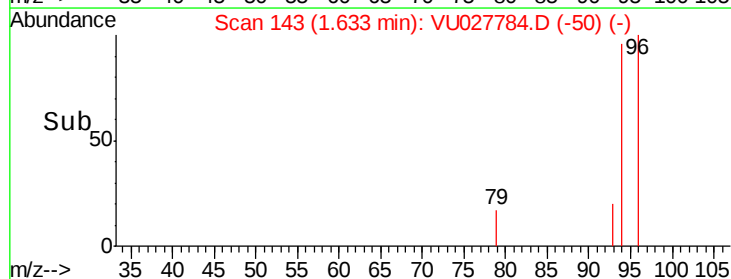
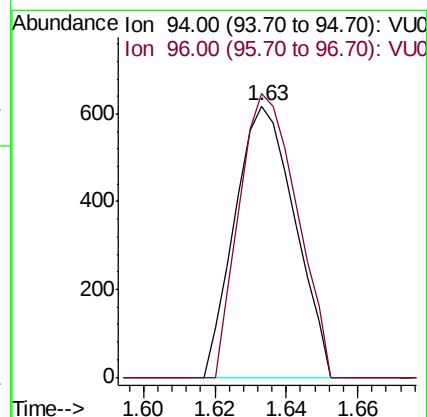
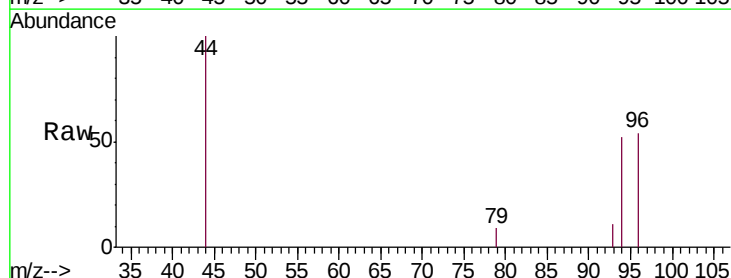
Acq: 24 Oct 2018 14:35

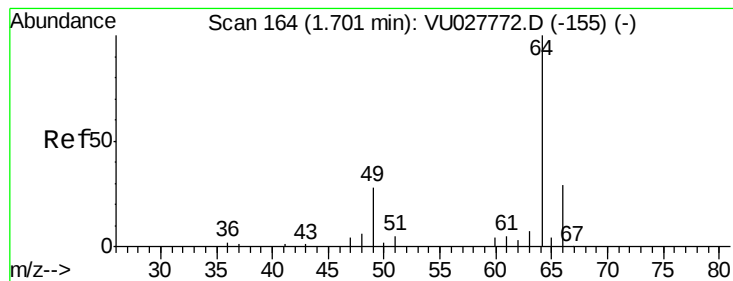
Tgt Ion: 94 Resp: 716

Ion Ratio Lower Upper

94 100

96 104.5 65.5 121.7





#8

Chloroethane

Concen: 0.342 ug/L

RT: 1.70 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

Instrument :

MSVOA\_U

ClientSampleId :

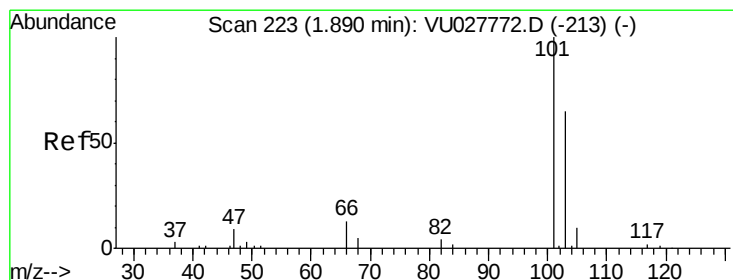
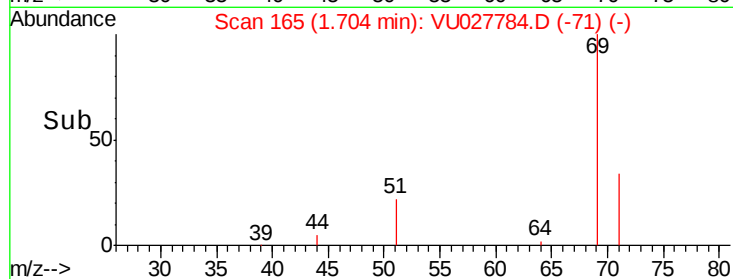
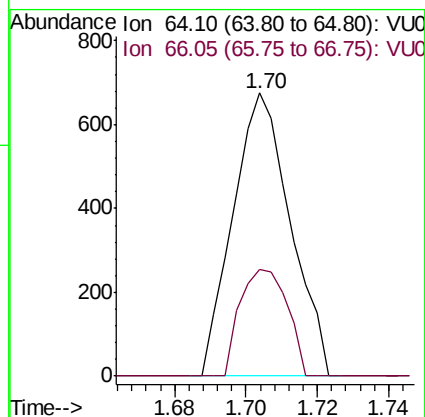
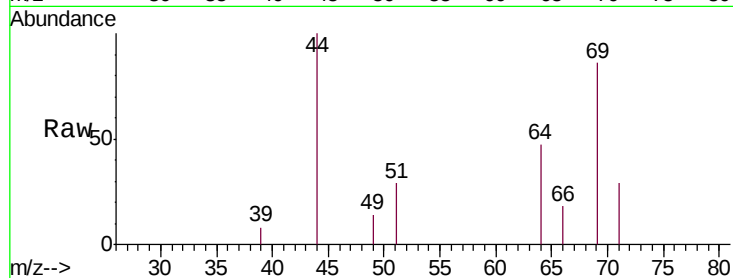
MDL01

Tgt Ion: 64 Resp: 750

Ion Ratio Lower Upper

64 100

66 37.6 20.3 37.7



#9

Trichlorofluoromethane

Concen: 0.327 ug/L

RT: 1.89 min Scan# 223

Delta R.T. -0.00 min

Lab File: VU027784.D

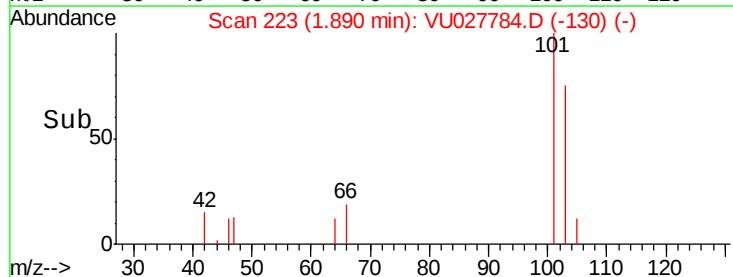
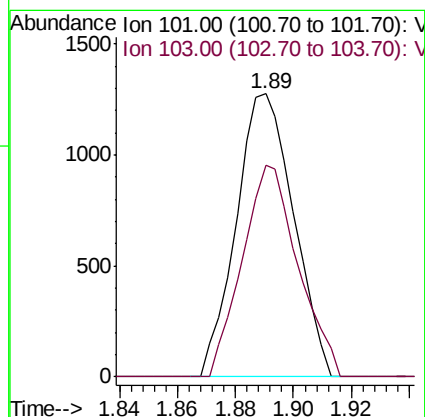
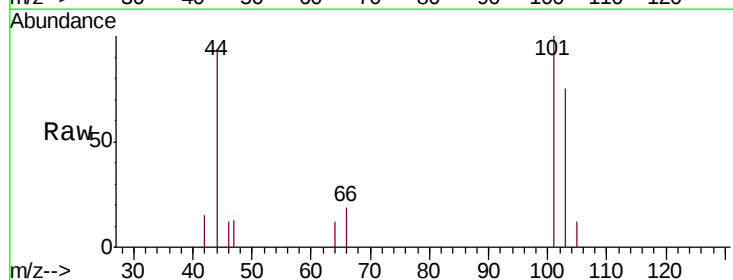
Acq: 24 Oct 2018 14:35

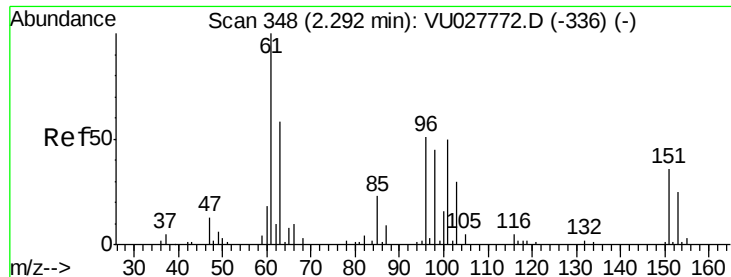
Tgt Ion: 101 Resp: 1753

Ion Ratio Lower Upper

101 100

103 72.6 51.0 76.4





#10

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

Concen: 0.430 ug/L

RT: 2.29 min Scan# 348

Delta R.T. -0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

Instrument :

MSVOA\_U

ClientSampled :

MDL01

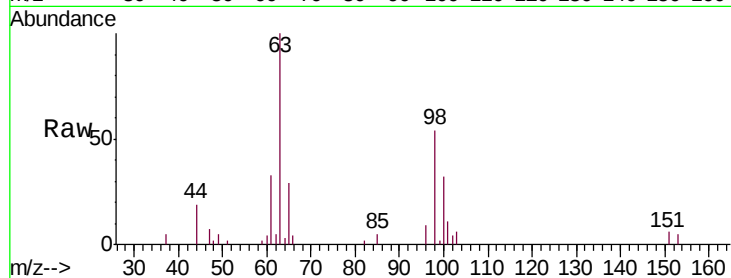
Tgt Ion: 101 Resp: 1166

Ion Ratio Lower Upper

101 100

85 38.6 38.1 57.1

151 49.7 57.0 85.4#



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

2.29

600

400

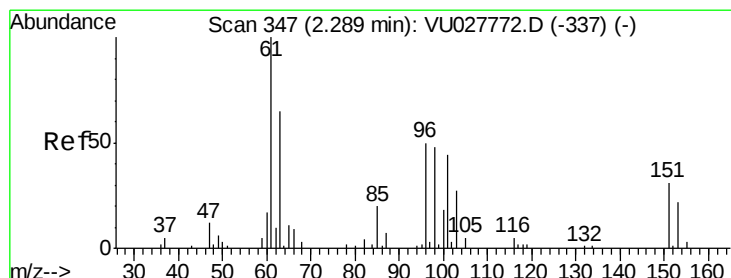
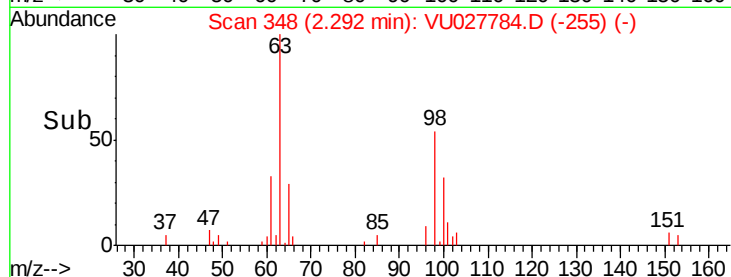
200

0

2.25

2.30

Time-->



#12

1,1-Dichloroethene

Concen: 0.373 ug/L

RT: 2.29 min Scan# 347

Delta R.T. -0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

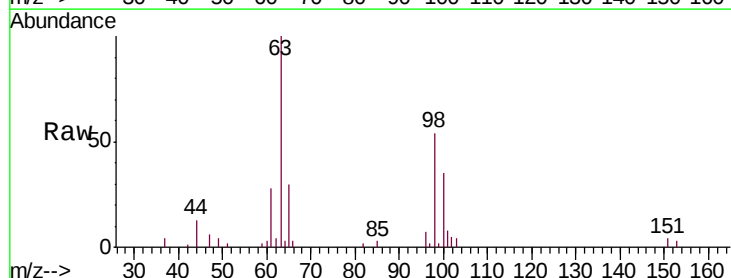
Tgt Ion: 96 Resp: 943

Ion Ratio Lower Upper

96 100

61 418.7 143.8 267.0#

63 1521.8 105.1 195.3#



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

20000

15000

10000

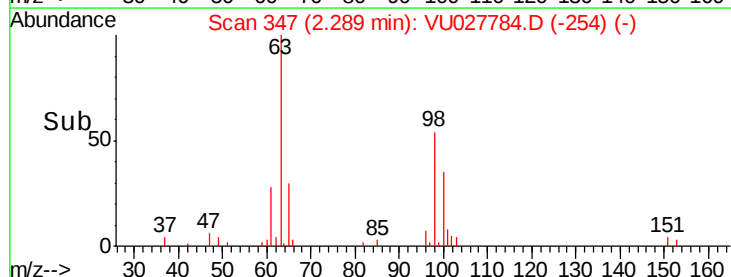
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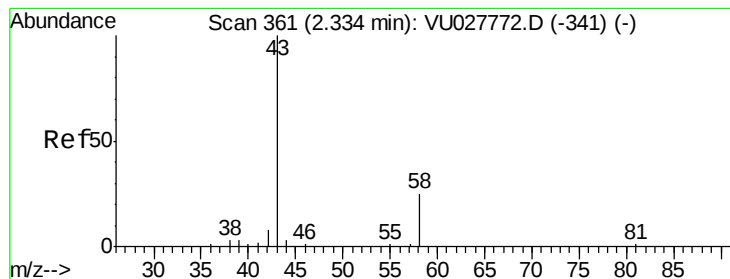
0

2.25

2.30

Time-->





#13

Acetone

Concen: 4.792 ug/L

RT: 2.35 min Scan# 365

Delta R.T. 0.01 min

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MSVOA\_U

ClientSampleId :

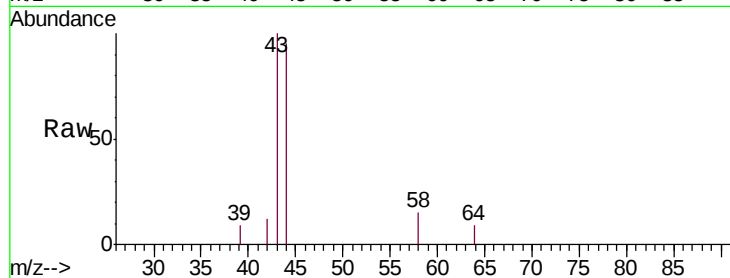
MDL01

Tgt Ion: 43 Resp: 3317

Ion Ratio Lower Upper

43 100

58 5.8 0.0 52.8



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

2.35

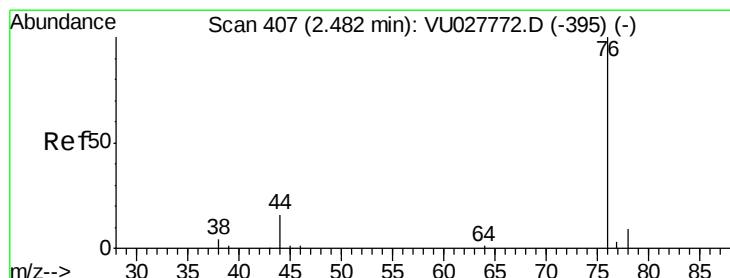
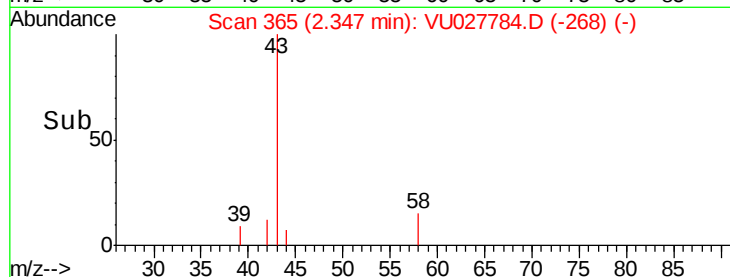
1000

500

0

Time-->

2.30 2.35 2.40 2.45



#14

Carbon disulfide

Concen: 0.359 ug/L

RT: 2.48 min Scan# 407

Delta R.T. -0.00 min

Lab File: VU027784.D

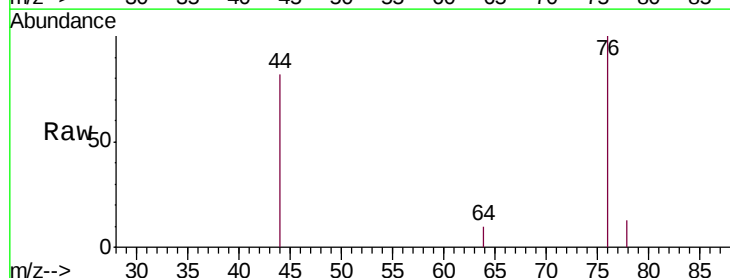
Acq: 24 Oct 2018 14:35

Tgt Ion: 76 Resp: 3111

Ion Ratio Lower Upper

76 100

78 13.0 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VU0

Ion 78.00 (77.70 to 78.70): VU0

2.48

2000

1500

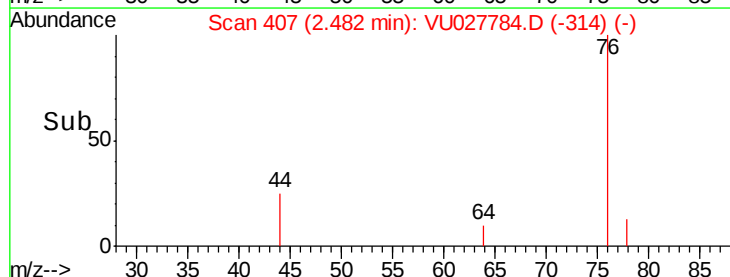
1000

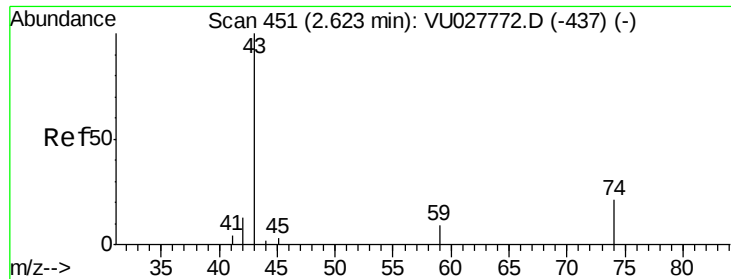
500

0

Time-->

2.45 2.50

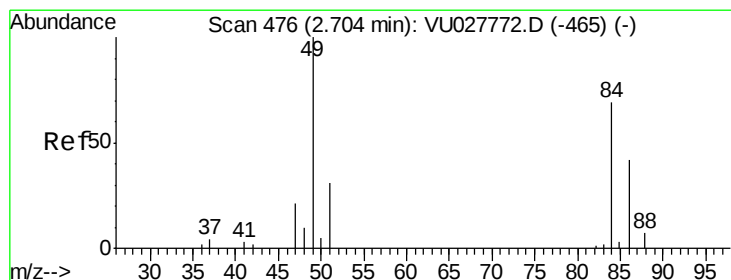
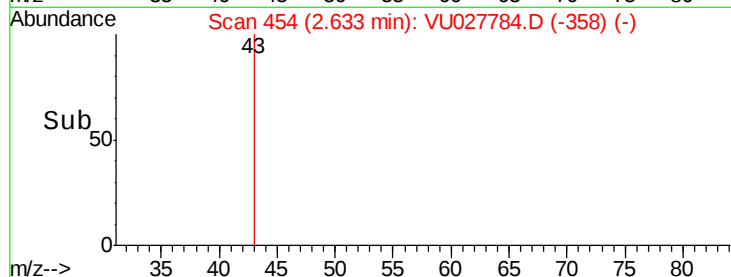
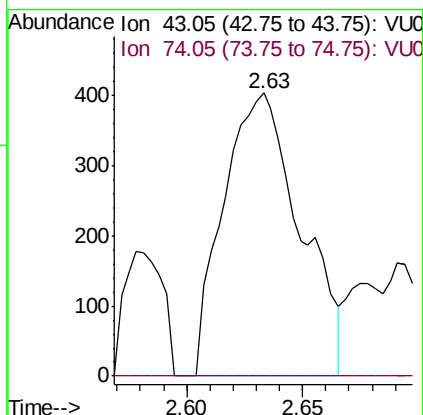
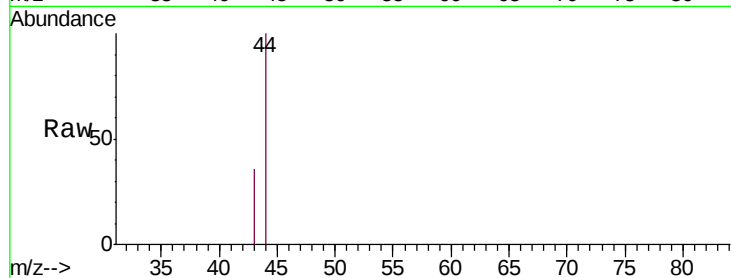




#15  
Methyl Acetate  
Concen: 0.480 ug/L  
RT: 2.63 min Scan# 454  
Delta R.T. 0.01 min  
Lab File: VU027784.D  
Acq: 24 Oct 2018 14:35

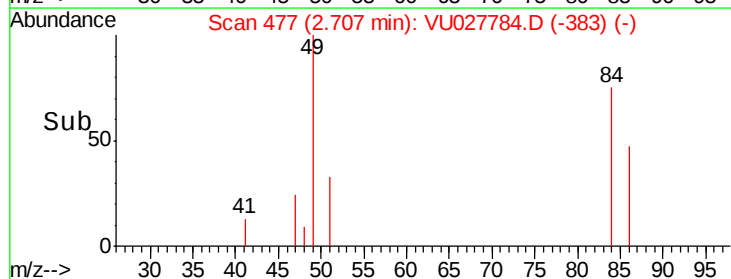
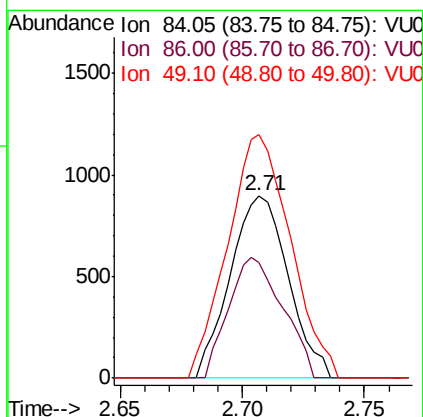
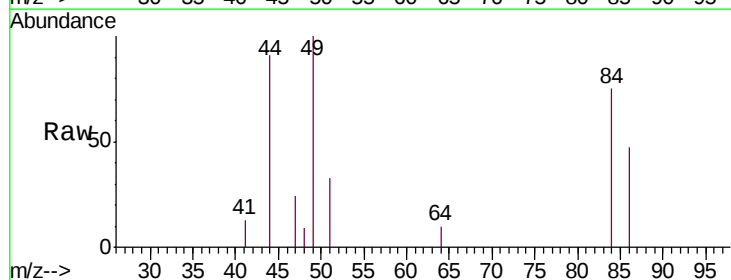
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL01

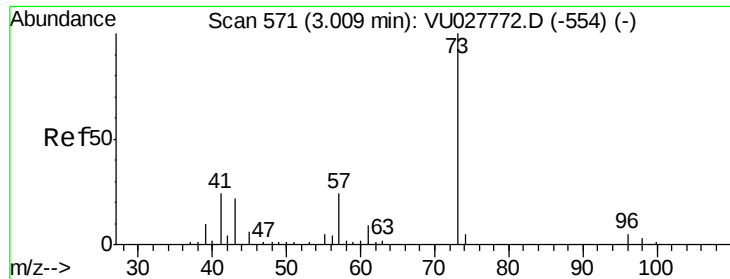
Tgt Ion: 43 Resp: 930  
Ion Ratio Lower Upper  
43 100  
74 0.0 15.8 23.8#



#16  
Methylene chloride  
Concen: 0.497 ug/L  
RT: 2.71 min Scan# 477  
Delta R.T. 0.00 min  
Lab File: VU027784.D  
Acq: 24 Oct 2018 14:35

Tgt Ion: 84 Resp: 1479  
Ion Ratio Lower Upper  
84 100  
86 63.2 42.8 79.4  
49 133.3 101.4 188.4





#17

Methyl tert-butyl Ether

Concen: 0.327 ug/L

RT: 3.01 min Scan# 571

Delta R.T. -0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

Instrument :

MSVOA\_U

ClientSampleId :

MDL01

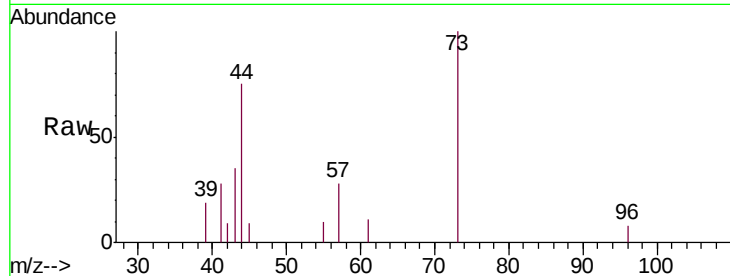
Tgt Ion: 73 Resp: 2646

Ion Ratio Lower Upper

73 100

43 41.6 18.6 28.0#

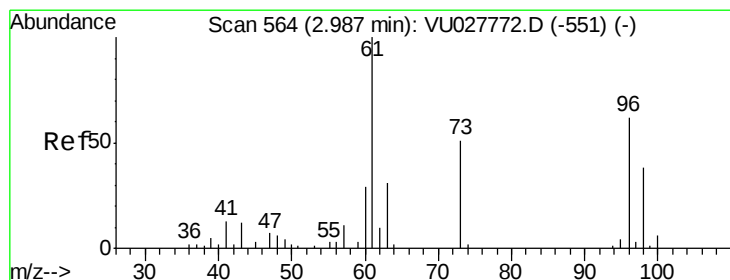
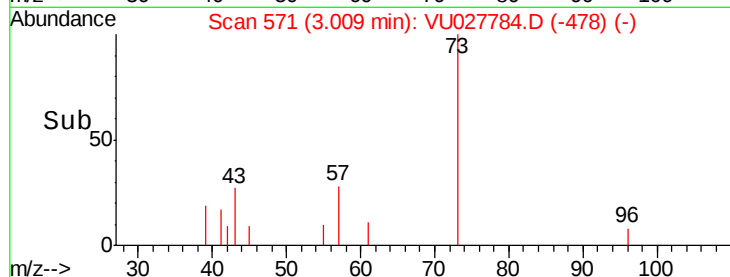
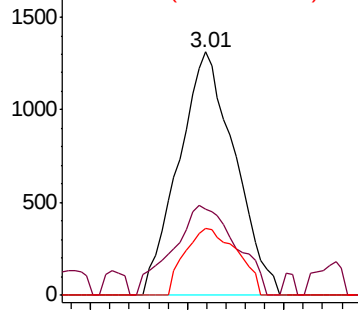
57 25.6 18.2 27.2



Abundance Ion 73.10 (72.80 to 73.80): VU027772.D (-554) (-)

Ion 43.05 (42.75 to 43.75): VU027772.D (-554) (-)

Ion 57.10 (56.80 to 57.80): VU027772.D (-554) (-)



#18

trans-1,2-Dichloroethene

Concen: 0.366 ug/L

RT: 2.98 min Scan# 563

Delta R.T. -0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

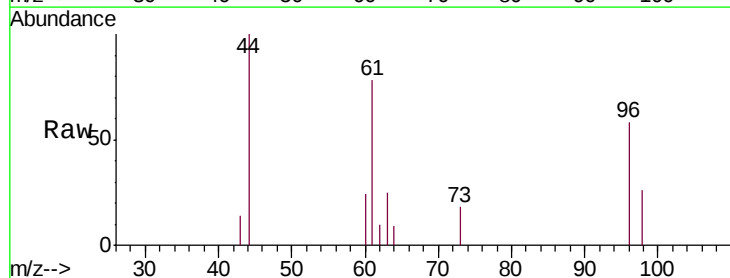
Tgt Ion: 96 Resp: 991

Ion Ratio Lower Upper

96 100

61 133.1 112.1 208.3

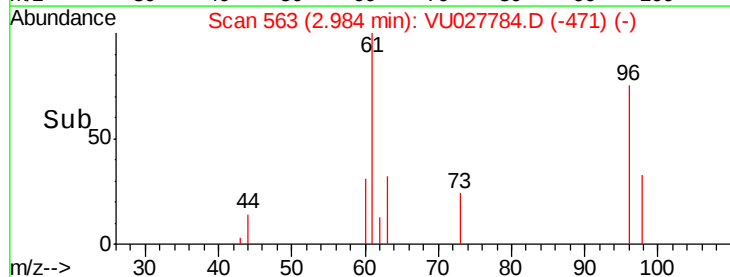
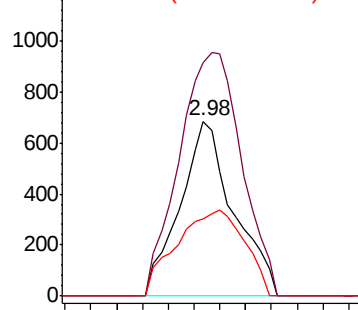
98 44.0 42.1 78.3

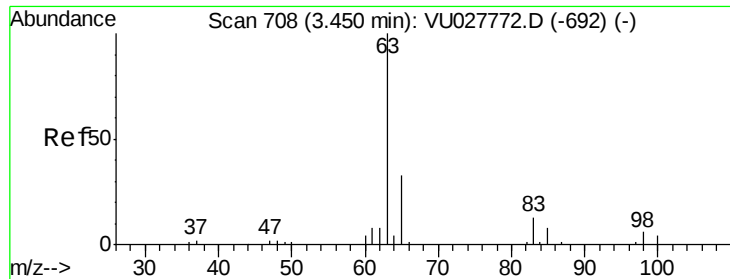


Abundance Ion 96.00 (95.70 to 96.70): VU027772.D (-551) (-)

Ion 61.05 (60.75 to 61.75): VU027772.D (-551) (-)

Ion 97.95 (97.65 to 98.65): VU027772.D (-551) (-)

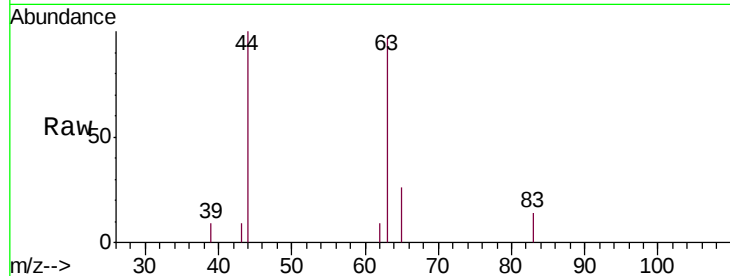




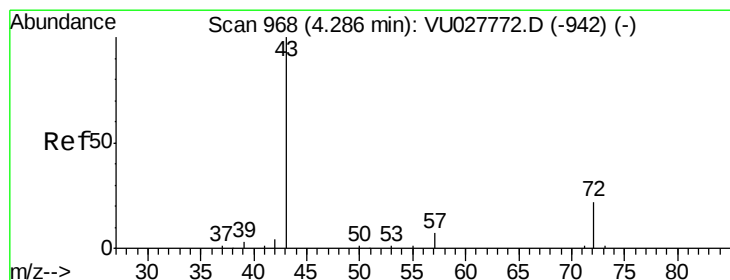
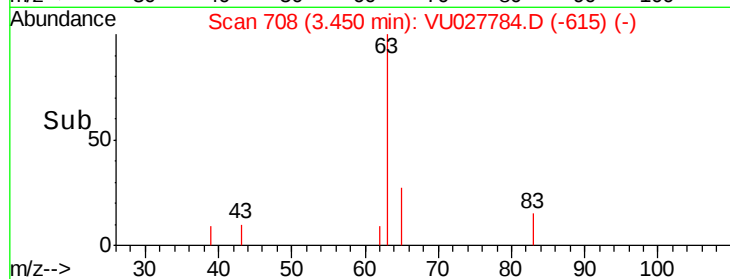
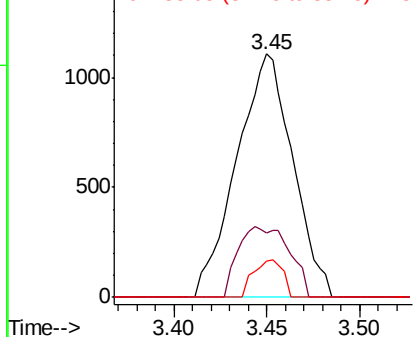
#19  
 1,1-Dichloroethane  
 Concen: 0.388 ug/L  
 RT: 3.45 min Scan# 708  
 Delta R.T. -0.00 min  
 Lab File: VU027784.D  
 Acq: 24 Oct 2018 14:35

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL01

Tgt Ion: 63 Resp: 2324  
 Ion Ratio Lower Upper  
 63 100  
 65 26.7 23.1 42.9  
 83 14.8 9.2 17.0

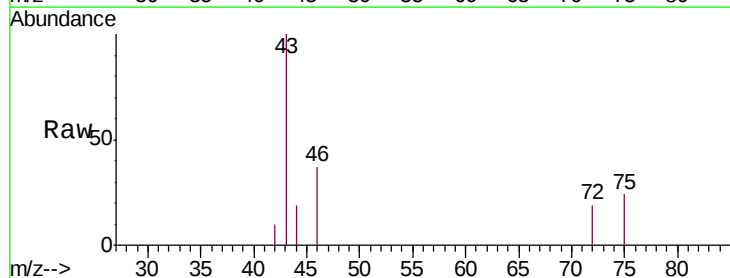


Abundance Ion 63.10 (62.80 to 63.80): VU0  
 Ion 65.10 (64.80 to 65.80): VU0  
 Ion 83.05 (82.75 to 83.75): VU0

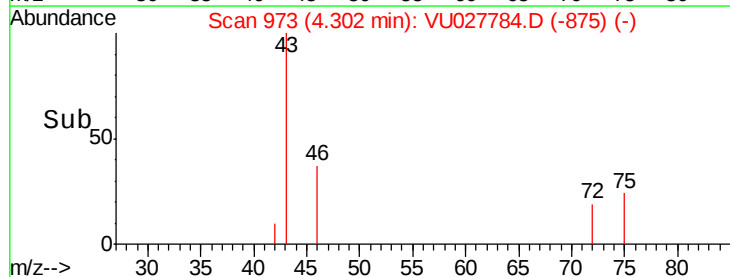
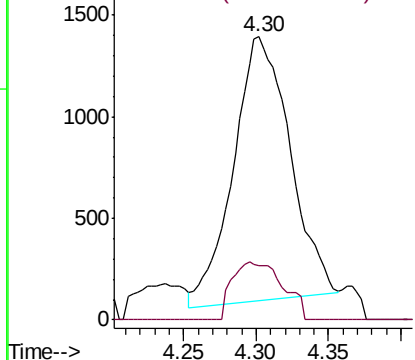


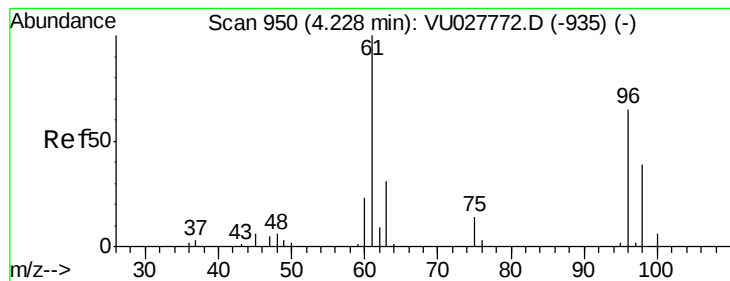
#21  
 2-Butanone  
 Concen: 3.115 ug/L  
 RT: 4.30 min Scan# 973  
 Delta R.T. 0.02 min  
 Lab File: VU027784.D  
 Acq: 24 Oct 2018 14:35

Tgt Ion: 43 Resp: 3538  
 Ion Ratio Lower Upper  
 43 100  
 72 19.5 10.5 31.6



Abundance Ion 43.05 (42.75 to 43.75): VU0  
 Ion 72.10 (71.80 to 72.80): VU0



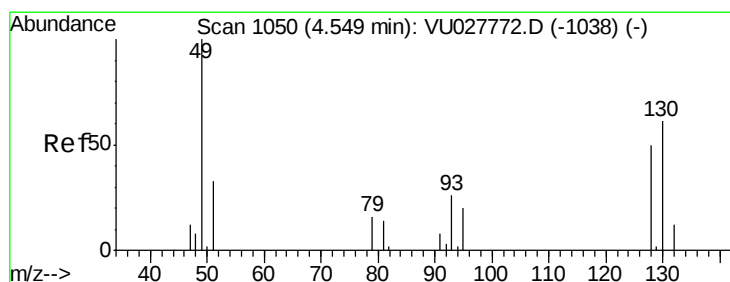
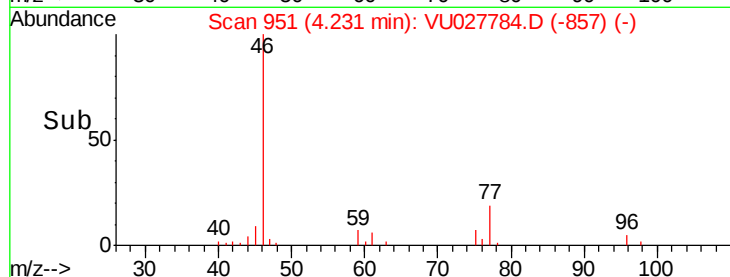
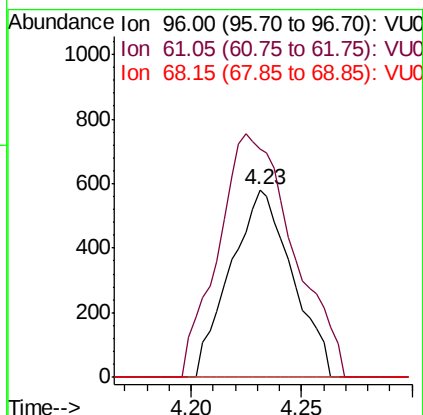
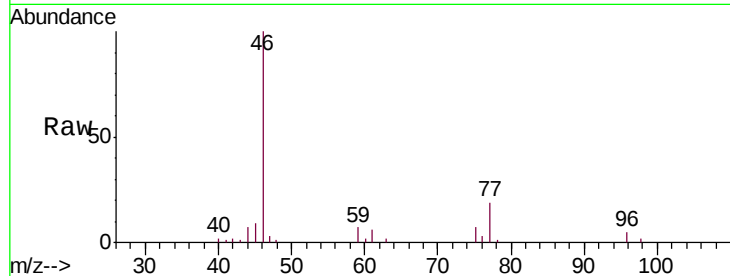


#22

cis-1,2-Dichloroethene  
Concen: 0.349 ug/L  
RT: 4.23 min Scan# 951  
Delta R.T. 0.00 min  
Lab File: VU027784.D  
Acq: 24 Oct 2018 14:35

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL01

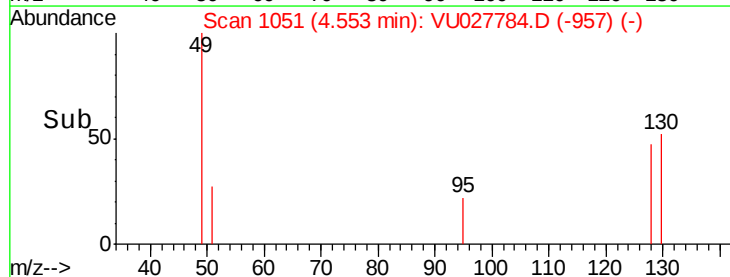
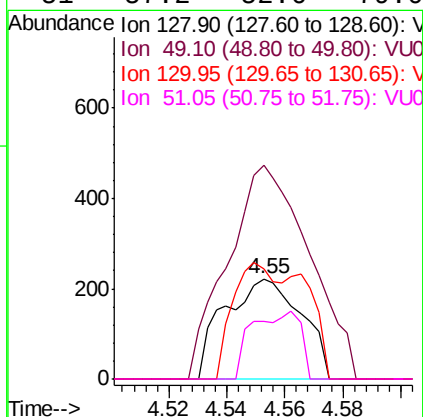
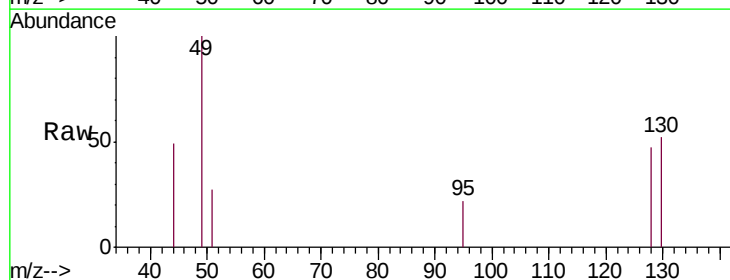
Tgt Ion: 96 Resp: 1123  
Ion Ratio Lower Upper  
96 100  
61 121.9 107.2 199.0  
68 0.0 0.0 0.0

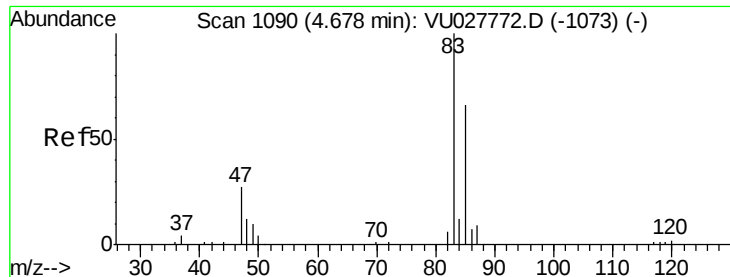


#23

Bromochloromethane  
Concen: 0.314 ug/L  
RT: 4.55 min Scan# 1051  
Delta R.T. 0.00 min  
Lab File: VU027784.D  
Acq: 24 Oct 2018 14:35

Tgt Ion: 128 Resp: 409  
Ion Ratio Lower Upper  
128 100  
49 213.1 142.8 265.2  
130 109.9 86.0 159.8  
51 57.2 52.6 79.0

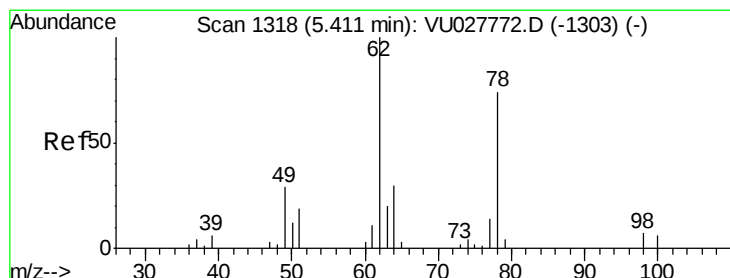
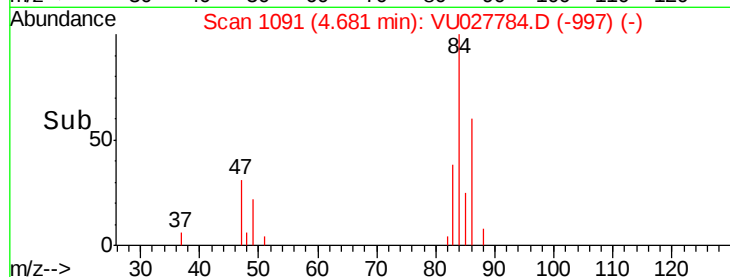
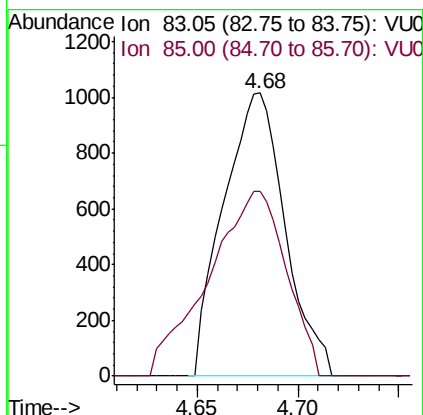
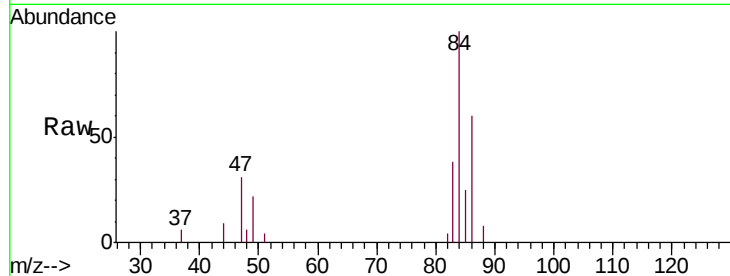




#25  
Chloroform  
Concen: 0.359 ug/L  
RT: 4.68 min Scan# 1091  
Delta R.T. 0.00 min  
Lab File: VU027784.D  
Acq: 24 Oct 2018 14:35

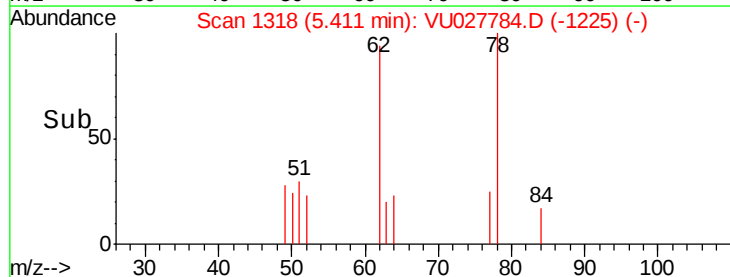
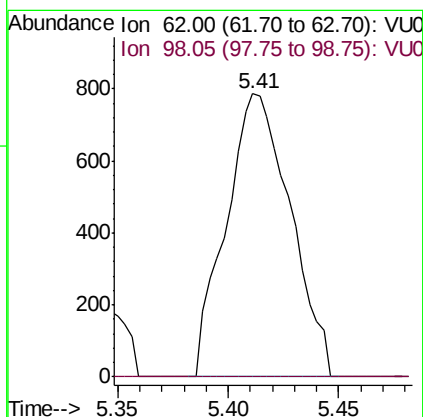
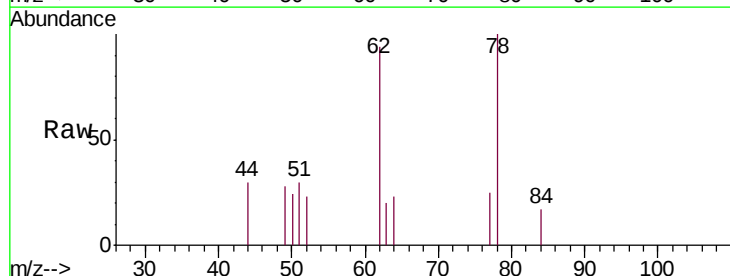
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL01

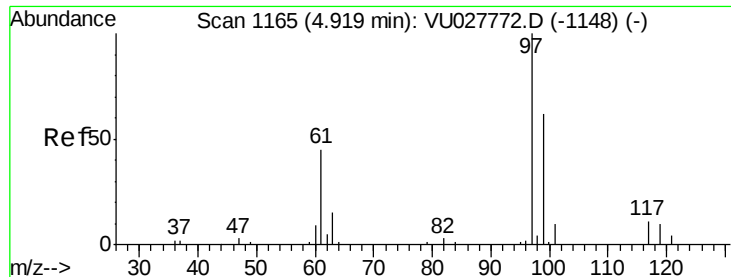
Tgt Ion: 83 Resp: 2160  
Ion Ratio Lower Upper  
83 100  
85 65.3 45.8 85.2



#27  
1,2-Dichloroethane  
Concen: 0.356 ug/L  
RT: 5.41 min Scan# 1318  
Delta R.T. -0.00 min  
Lab File: VU027784.D  
Acq: 24 Oct 2018 14:35

Tgt Ion: 62 Resp: 1583  
Ion Ratio Lower Upper  
62 100  
98 0.0 5.7 8.5#

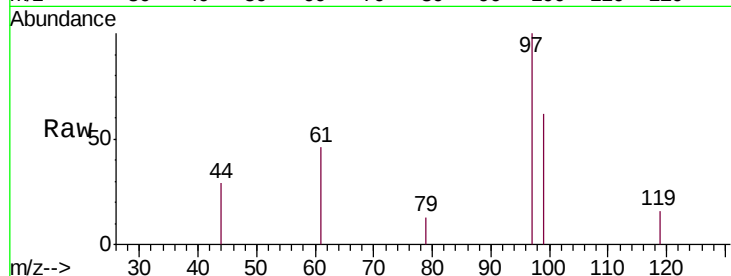




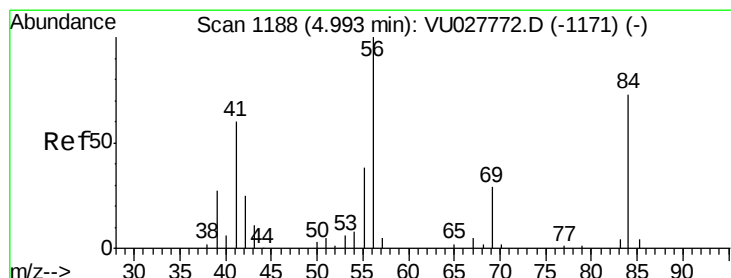
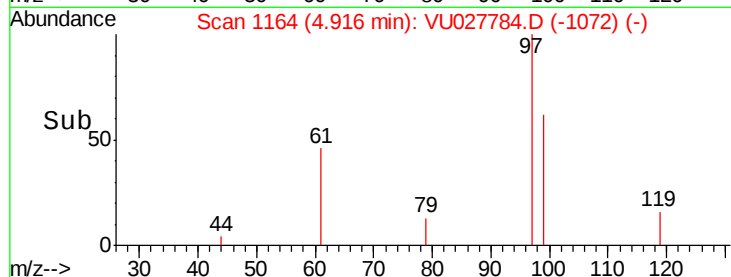
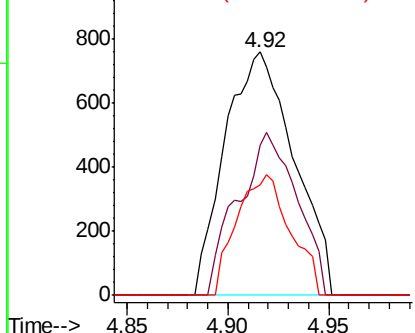
#29  
 1,1,1-Trichloroethane  
 Concen: 0.328 ug/L  
 RT: 4.92 min Scan# 1164  
 Delta R.T. -0.00 min  
 Lab File: VU027784.D  
 Acq: 24 Oct 2018 14:35

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL01

Tgt Ion: 97 Resp: 1807  
 Ion Ratio Lower Upper  
 97 100  
 99 57.3 51.3 76.9  
 61 38.6 36.7 55.1

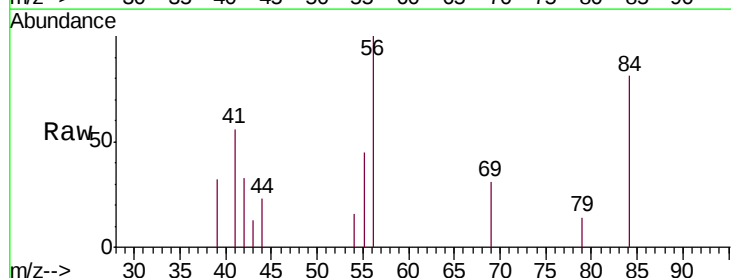


Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 61.05 (60.75 to 61.75): VU0

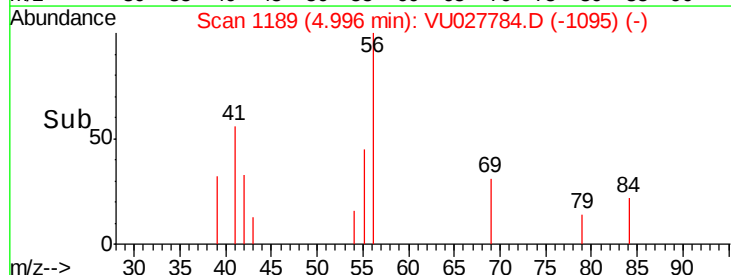
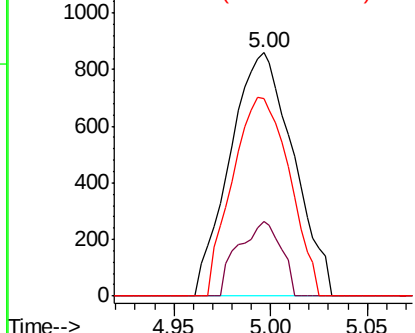


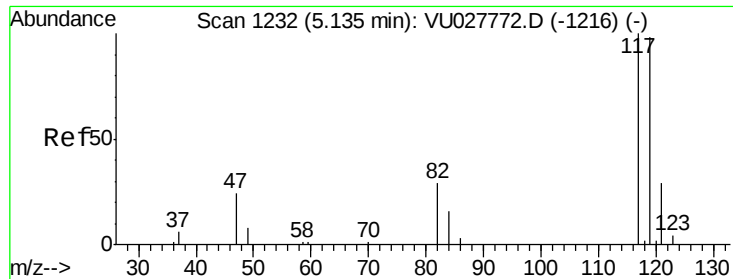
#30  
 Cyclohexane  
 Concen: 0.317 ug/L  
 RT: 5.00 min Scan# 1189  
 Delta R.T. 0.00 min  
 Lab File: VU027784.D  
 Acq: 24 Oct 2018 14:35

Tgt Ion: 56 Resp: 1956  
 Ion Ratio Lower Upper  
 56 100  
 69 20.6 22.2 33.4#  
 84 73.3 58.6 88.0



Abundance Ion 56.10 (55.80 to 56.80): VU0  
 Ion 69.15 (68.85 to 69.85): VU0  
 Ion 84.15 (83.85 to 84.85): VU0

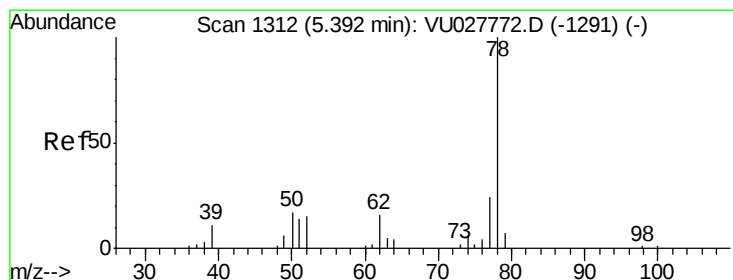
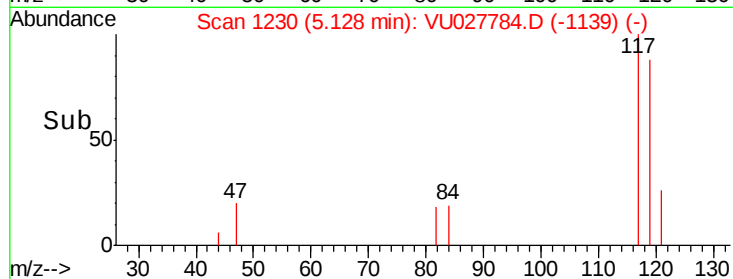
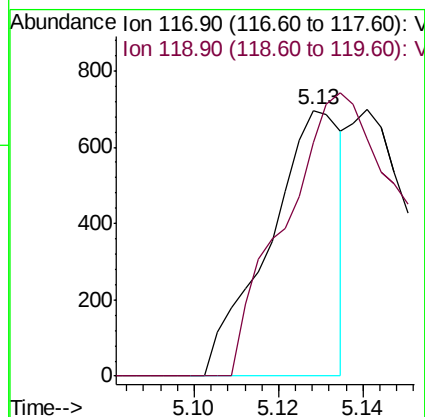
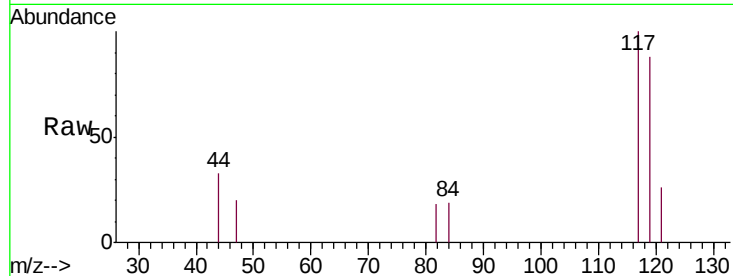




#31  
Carbon tetrachloride  
Concen: 0.175 ug/L  
RT: 5.13 min Scan# 1230  
Delta R.T. -0.01 min  
Lab File: VU027784.D  
Acq: 24 Oct 2018 14:35

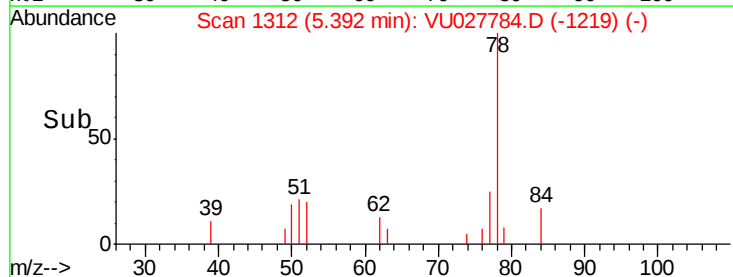
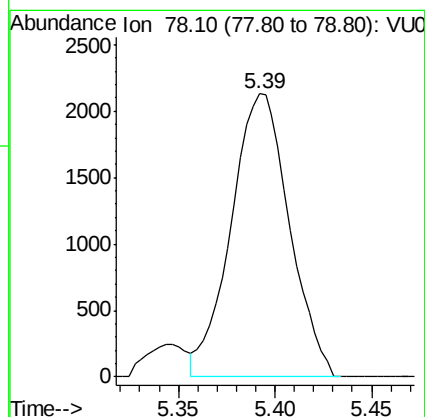
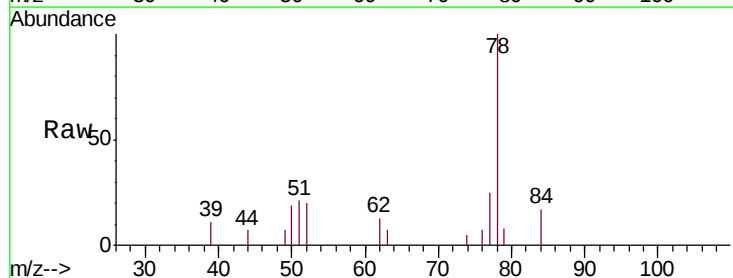
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL01

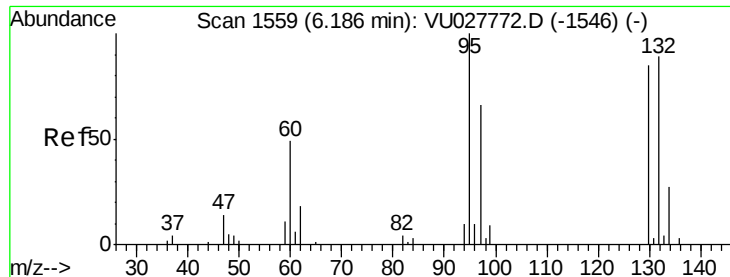
Tgt Ion: 117 Resp: 826  
Ion Ratio Lower Upper  
117 100  
119 178.9 77.0 115.6#



#33  
Benzene  
Concen: 0.350 ug/L  
RT: 5.39 min Scan# 1312  
Delta R.T. -0.00 min  
Lab File: VU027784.D  
Acq: 24 Oct 2018 14:35

Tgt Ion: 78 Resp: 4461





#34

Trichloroethene

Concen: 0.359 ug/L

RT: 6.19 min Scan# 1560

Delta R.T. 0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

Instrument :

MSVOA\_U

ClientSampleID :

MDL01

Tgt Ion: 95 Resp: 1185

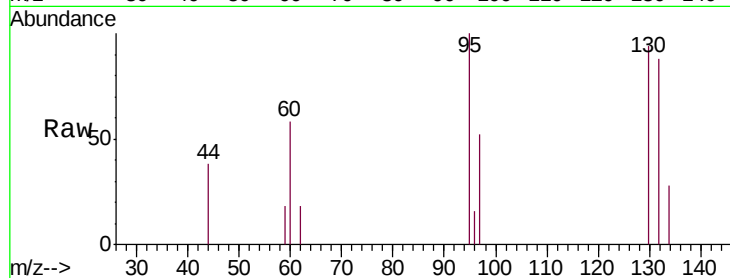
Ion Ratio Lower Upper

95 100

97 52.1 46.4 86.2

132 87.8 62.0 115.2

130 93.7 59.5 110.5

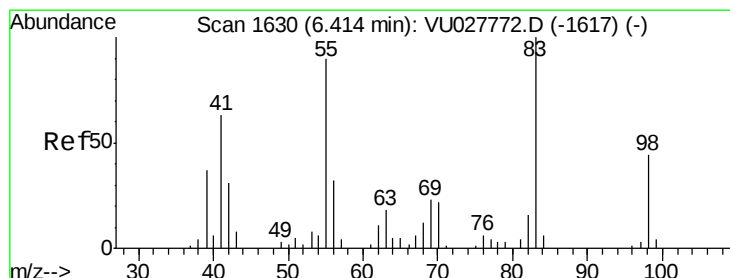
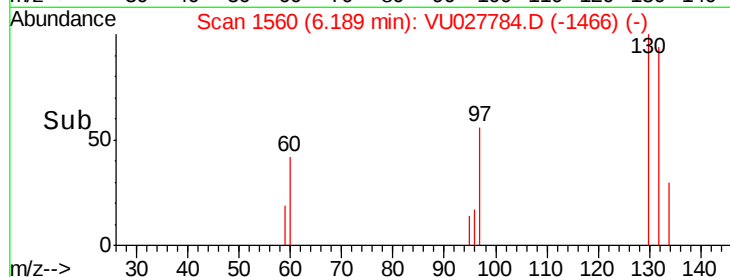
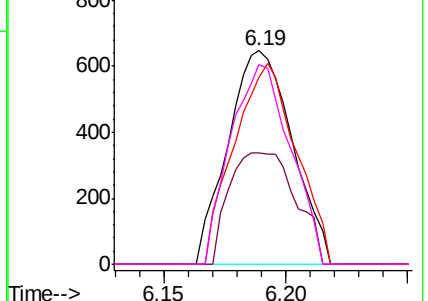


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.320 ug/L

RT: 6.41 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

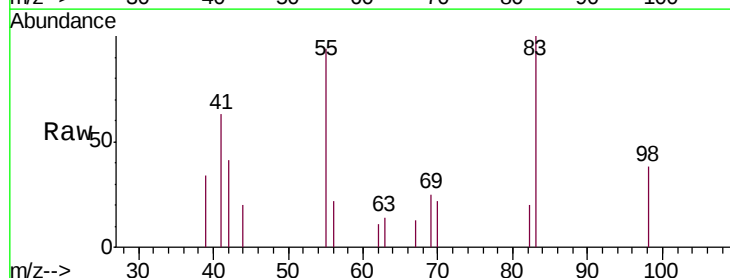
Tgt Ion: 83 Resp: 1766

Ion Ratio Lower Upper

83 100

55 99.0 71.5 107.3

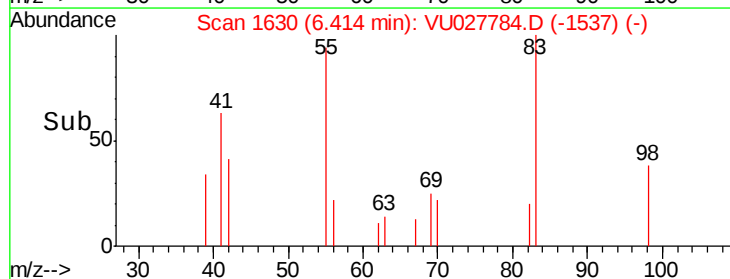
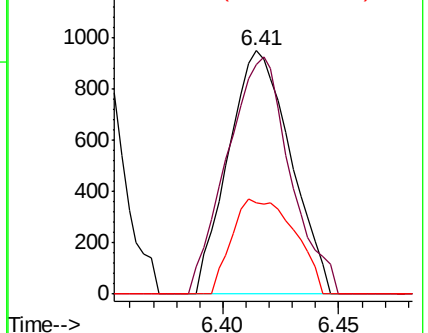
98 39.5 35.4 53.0

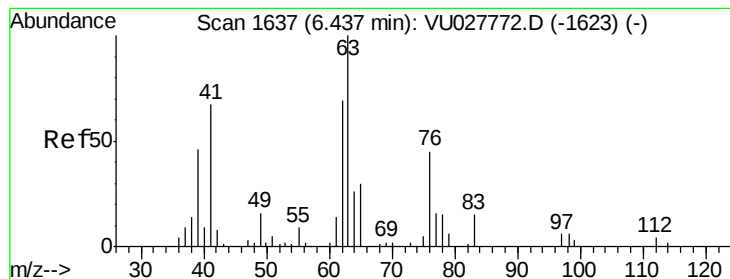


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.353 ug/L

RT: 6.44 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

Instrument :

MSVOA\_U

ClientSampleId :

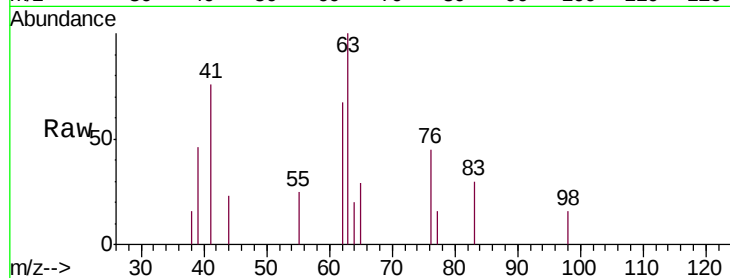
MDL01

Tgt Ion: 63 Resp: 1319

Ion Ratio Lower Upper

63 100

112 0.0 2.7 4.1#



Abundance Ion 63.10 (62.80 to 63.80): VU0

Ion 112.10 (111.80 to 112.80): V

6.44

600

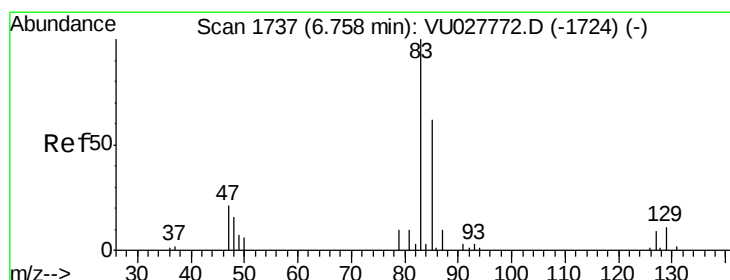
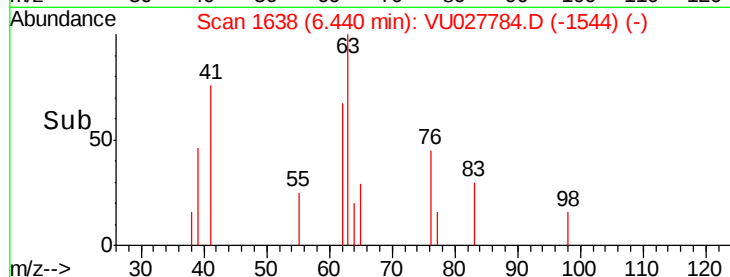
400

200

0

6.40 6.45

Time-->



#38

Bromodichloromethane

Concen: 0.333 ug/L

RT: 6.76 min Scan# 1739

Delta R.T. 0.01 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

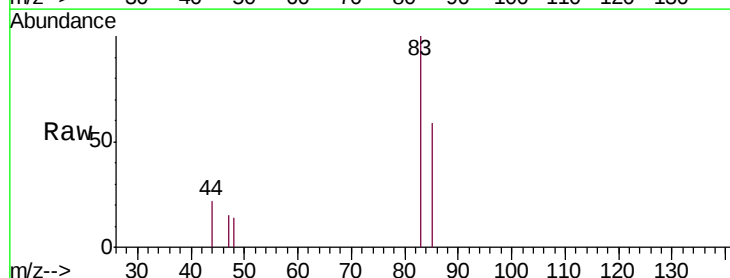
Tgt Ion: 83 Resp: 1488

Ion Ratio Lower Upper

83 100

85 59.3 43.3 80.5

127 0.0 7.2 10.8#



Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 126.90 (126.60 to 127.60): V

6.76

1000

800

600

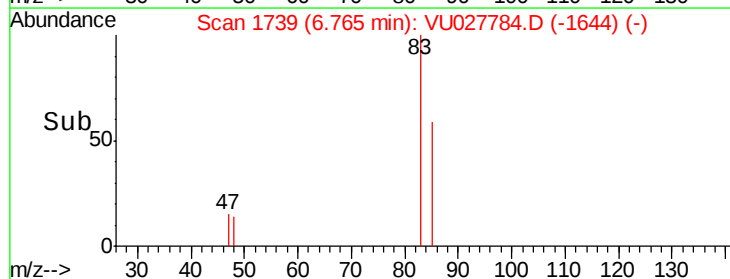
400

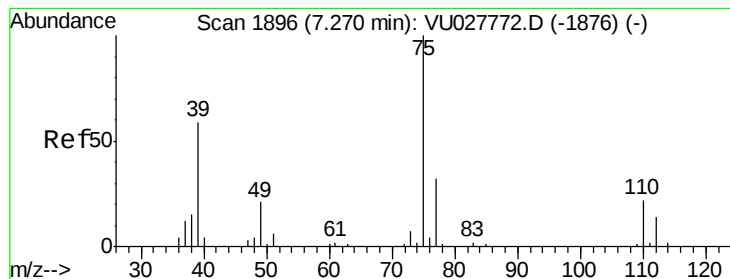
200

0

6.70 6.75 6.80

Time-->





#39

cis-1,3-Dichloropropene

Concen: 0.358 ug/L

RT: 7.28 min Scan# 1899

Delta R.T. 0.01 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

Instrument :

MSVOA\_U

ClientSampleId :

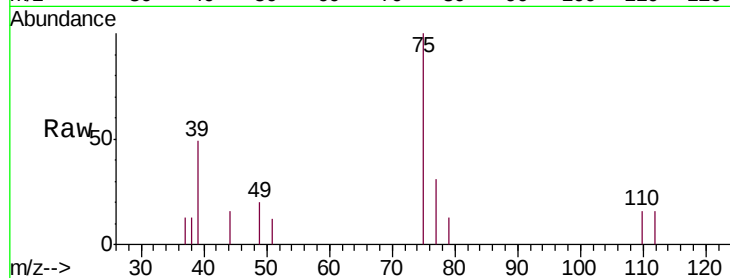
MDL01

Tgt Ion: 75 Resp: 1915

Ion Ratio Lower Upper

75 100

77 31.1 22.5 41.7



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0

1200

1000

800

600

400

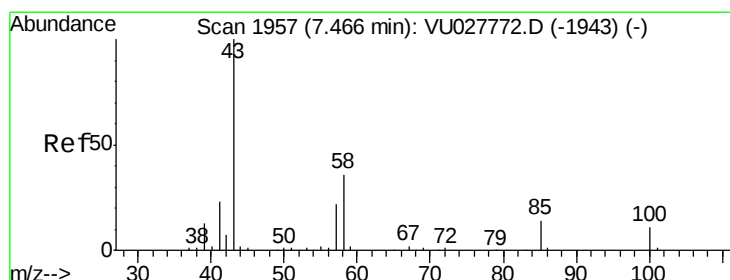
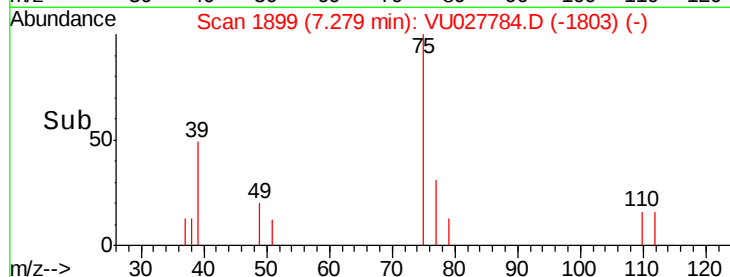
200

0

7.25

7.30

Time-->



#40

4-Methyl-2-pentanone

Concen: 3.433 ug/L

RT: 7.47 min Scan# 1958

Delta R.T. 0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

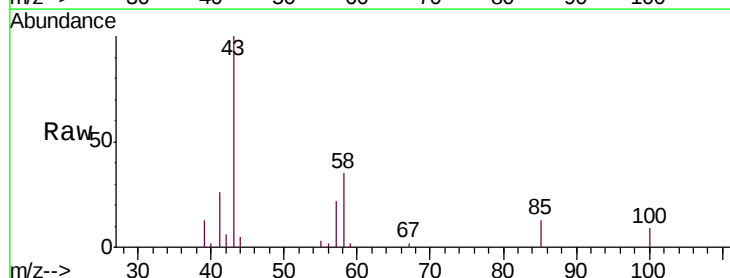
Tgt Ion: 43 Resp: 9592

Ion Ratio Lower Upper

43 100

58 33.4 28.1 42.1

100 0.0 8.7 13.1#



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 100.15 (99.85 to 100.85): VU0

10000

8000

6000

4000

2000

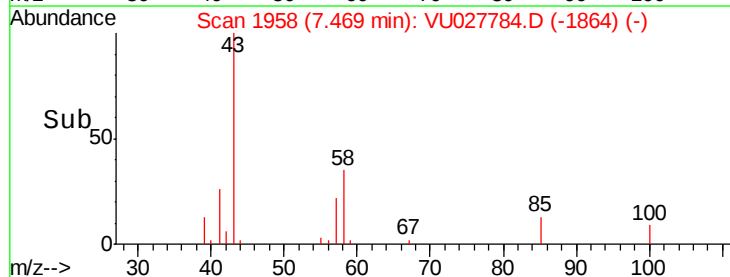
0

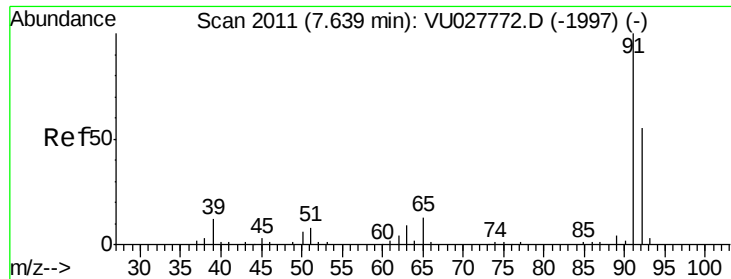
7.40

7.45

7.50

Time-->





#42

Toluene

Concen: 0.351 ug/L

RT: 7.64 min Scan# 2011

Delta R.T. -0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

Instrument :

MSVOA\_U

ClientSampleId :

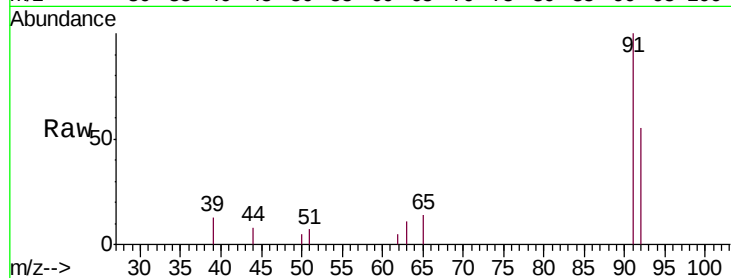
MDL01

Tgt Ion: 91 Resp: 4813

Ion Ratio Lower Upper

91 100

92 54.8 38.6 71.8



Abundance Ion 91.15 (90.85 to 91.85): VU027772.D (-1997) (-)

Ion 92.15 (91.85 to 92.85): VU027772.D (-1997) (-)

7.64

3000

2500

2000

1500

1000

500

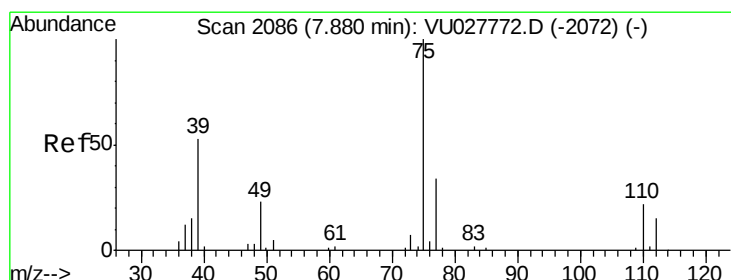
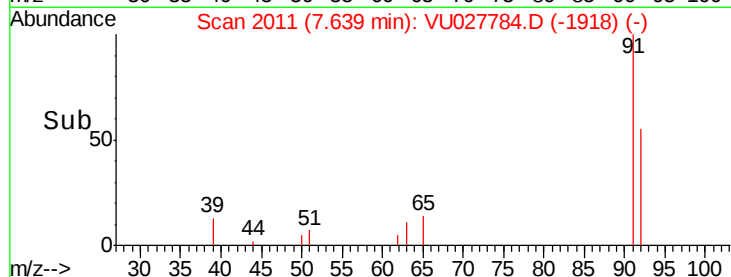
0

7.60

7.65

7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.423 ug/L

RT: 7.88 min Scan# 2087

Delta R.T. 0.00 min

Lab File: VU027784.D

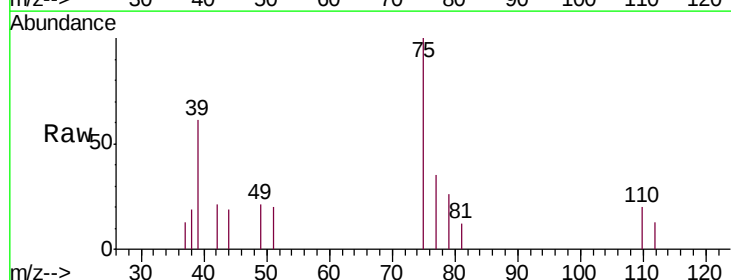
Acq: 24 Oct 2018 14:35

Tgt Ion: 75 Resp: 1907

Ion Ratio Lower Upper

75 100

77 35.3 23.5 43.7



Abundance Ion 75.05 (74.75 to 75.75): VU027772.D (-2072) (-)

Ion 77.05 (76.75 to 77.75): VU027772.D (-2072) (-)

7.88

1000

800

600

400

200

0

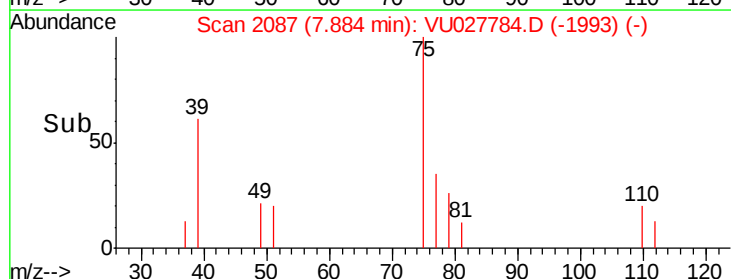
7.80

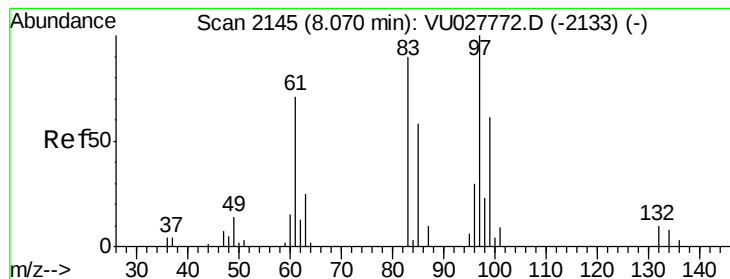
7.85

7.90

7.95

Time-->





#45

1,1,2-Trichloroethane

Concen: 0.314 ug/L

RT: 8.07 min Scan# 2146

Delta R.T. 0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

Instrument :

MSVOA\_U

ClientSampleId :

MDL01

Tgt Ion: 97 Resp: 709

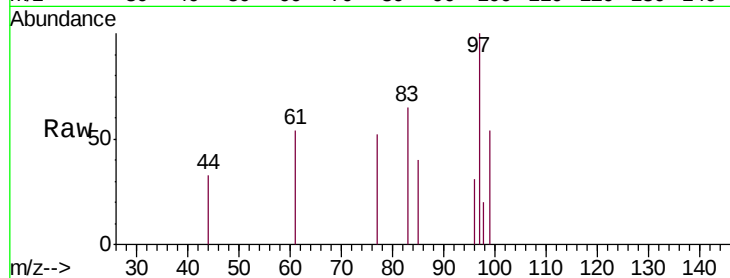
Ion Ratio Lower Upper

97 100

99 53.9 42.8 79.6

83 64.8 62.9 116.9

85 40.1 40.8 75.8#

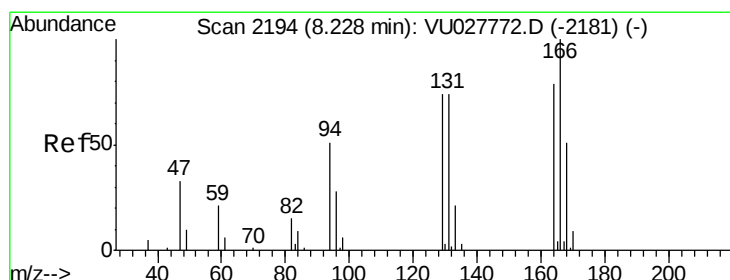
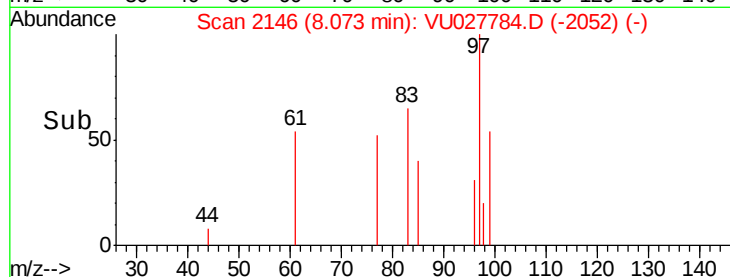
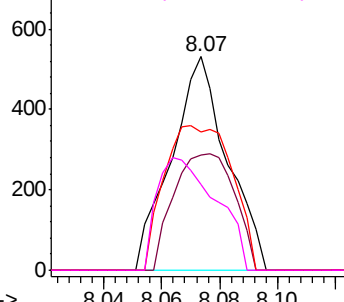


Abundance Ion 96.95 (96.65 to 97.65): VU0

Ion 99.05 (98.75 to 99.75): VU0

Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0



#47

Tetrachloroethene

Concen: 0.378 ug/L

RT: 8.23 min Scan# 2194

Delta R.T. -0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

Tgt Ion: 164 Resp: 1014

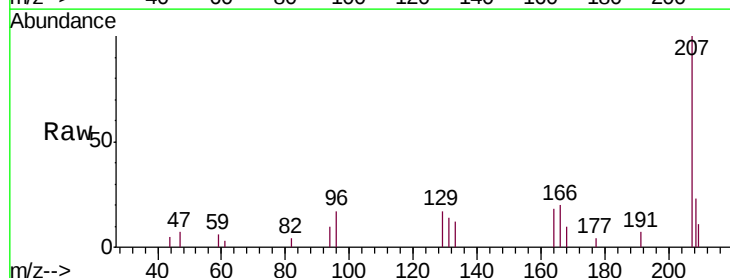
Ion Ratio Lower Upper

164 100

129 91.3 65.6 121.8

131 79.0 65.0 120.8

166 109.2 88.3 164.1

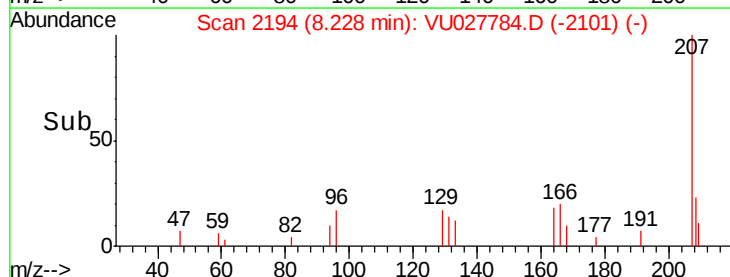
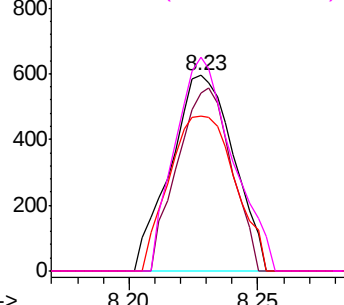


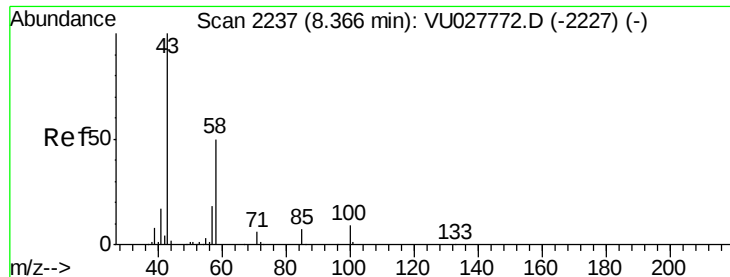
Abundance Ion 163.90 (163.60 to 164.60): V

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

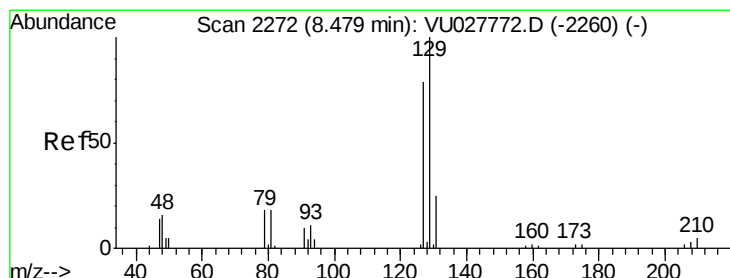
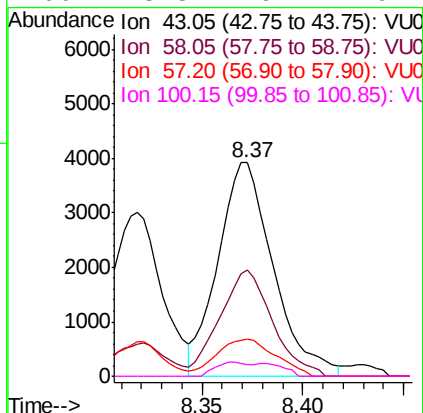
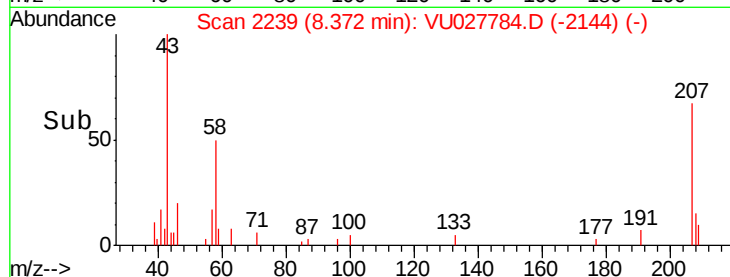
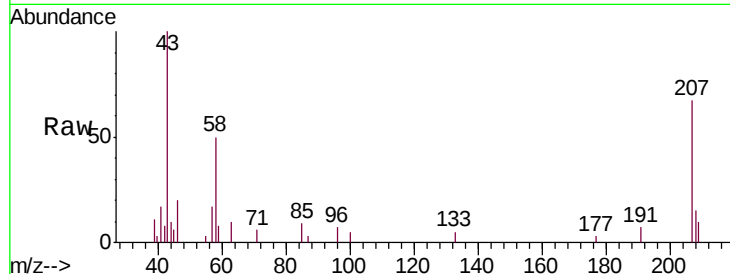




#48  
2-Hexanone  
Concen: 3.784 ug/L  
RT: 8.37 min Scan# 2239  
Delta R.T. 0.01 min  
Lab File: VU027784.D  
Acq: 24 Oct 2018 14:35

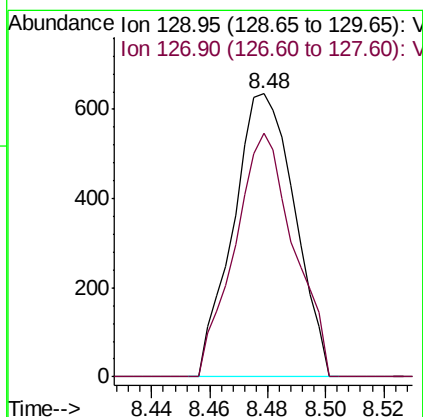
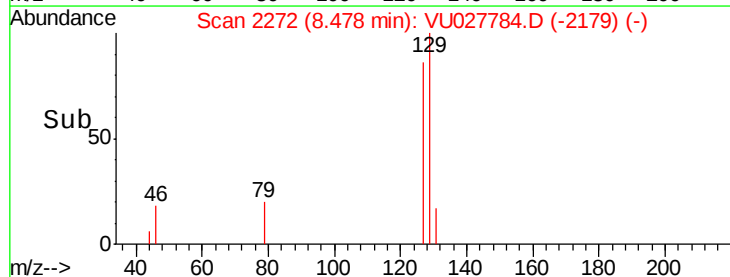
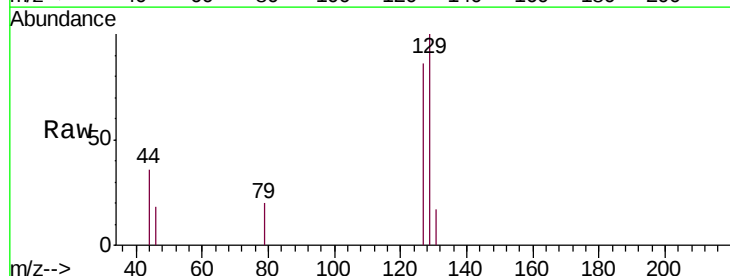
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL01

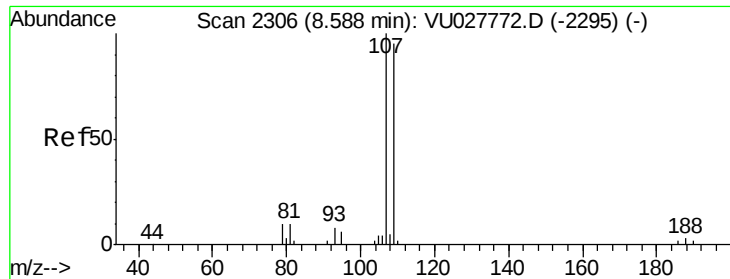
Tgt Ion: 43 Resp: 7514  
Ion Ratio Lower Upper  
43 100  
58 47.1 39.4 59.0  
57 18.4 13.8 20.8  
100 3.8 6.7 10.1#



#49  
Dibromochloromethane  
Concen: 0.325 ug/L  
RT: 8.48 min Scan# 2272  
Delta R.T. -0.00 min  
Lab File: VU027784.D  
Acq: 24 Oct 2018 14:35

Tgt Ion: 129 Resp: 935  
Ion Ratio Lower Upper  
129 100  
127 86.3 55.2 102.4

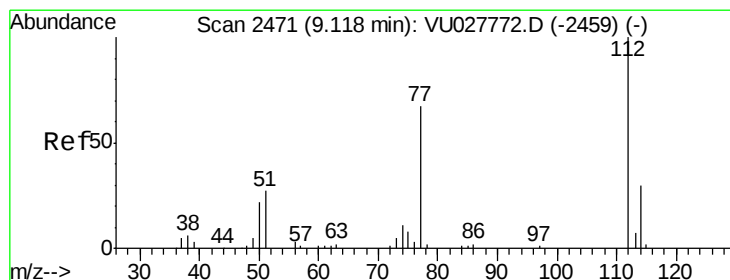
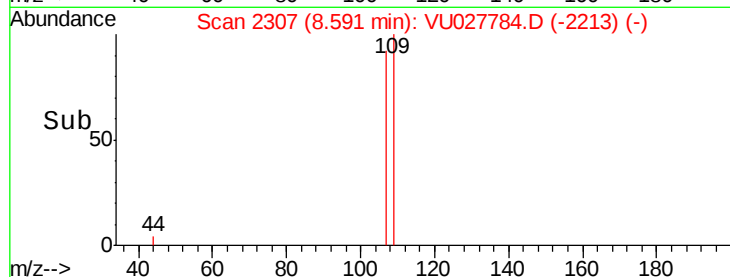
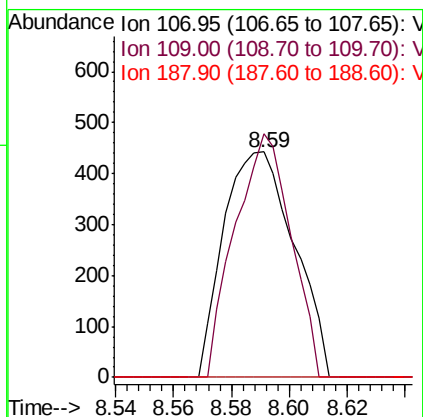
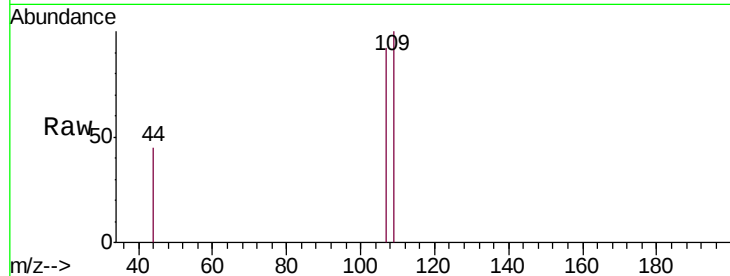




#50  
1,2-Dibromoethane  
Concen: 0.340 ug/L  
RT: 8.59 min Scan# 2307  
Delta R.T. 0.00 min  
Lab File: VU027784.D  
Acq: 24 Oct 2018 14:35

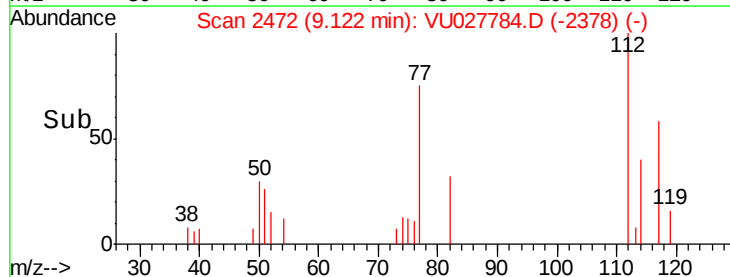
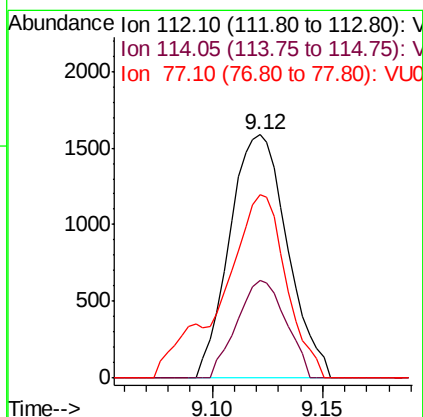
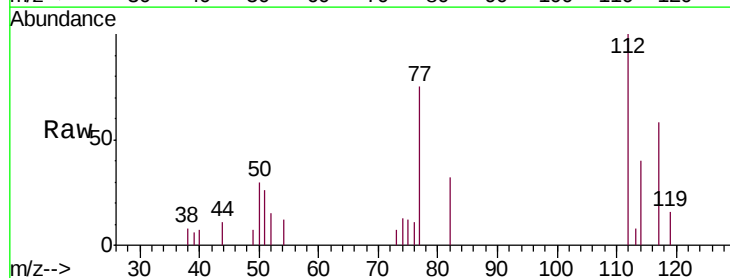
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL01

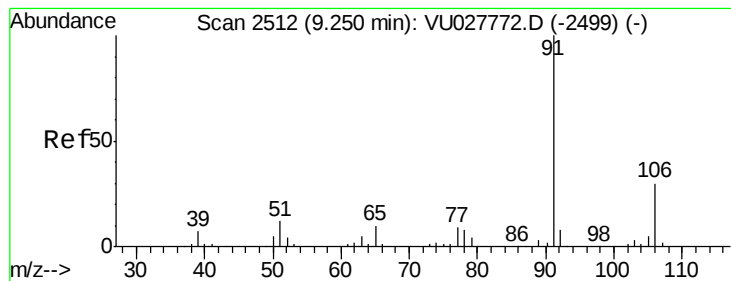
Tgt Ion:107 Resp: 746  
Ion Ratio Lower Upper  
107 100  
109 108.1 66.3 123.1  
188 0.0 2.6 3.8#



#51  
Chlorobenzene  
Concen: 0.341 ug/L  
RT: 9.12 min Scan# 2472  
Delta R.T. 0.00 min  
Lab File: VU027784.D  
Acq: 24 Oct 2018 14:35

Tgt Ion:112 Resp: 2877  
Ion Ratio Lower Upper  
112 100  
114 39.9 21.2 39.4#  
77 75.2 54.2 81.4





#52

Ethylbenzene

Concen: 0.329 ug/L

RT: 9.25 min Scan# 2513

Delta R.T. 0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

Instrument :

MSVOA\_U

ClientSampleId :

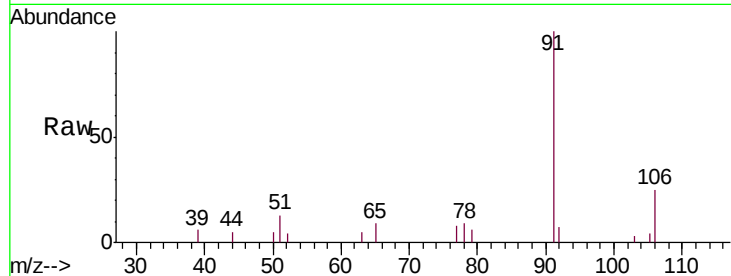
MDL01

Tgt Ion: 91 Resp: 5223

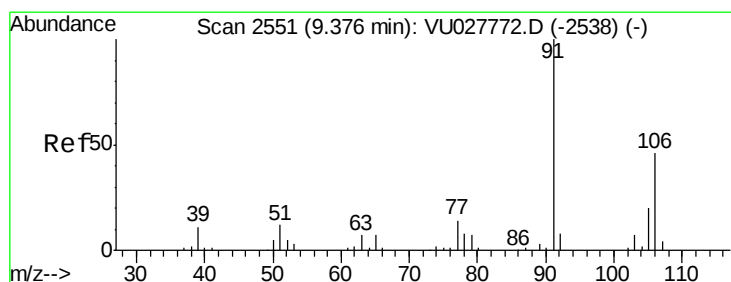
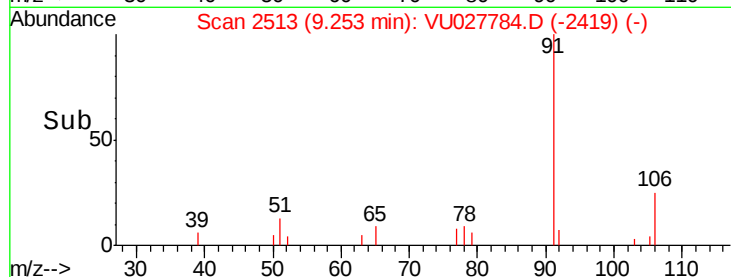
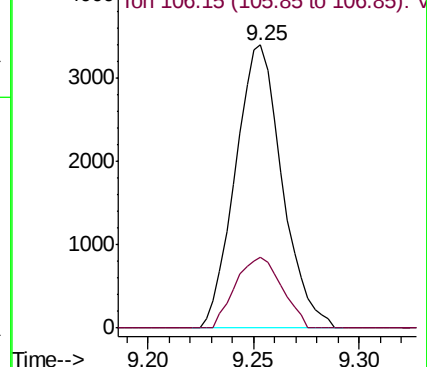
Ion Ratio Lower Upper

91 100

106 25.1 20.6 38.4



Abundance Ion 91.15 (90.85 to 91.85): VU027772.D (-2499) (-)



#53

m,p-xylene

Concen: 0.311 ug/L

RT: 9.38 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VU027784.D

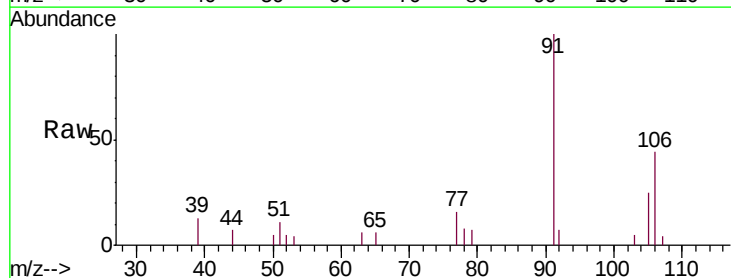
Acq: 24 Oct 2018 14:35

Tgt Ion: 106 Resp: 1751

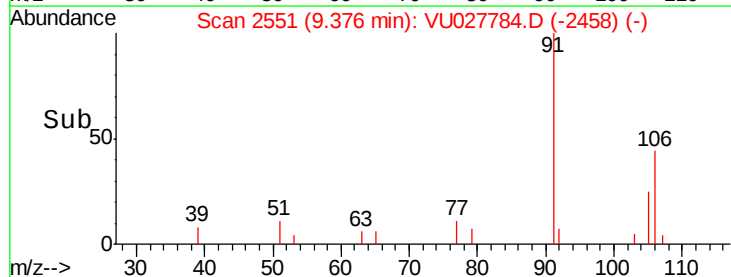
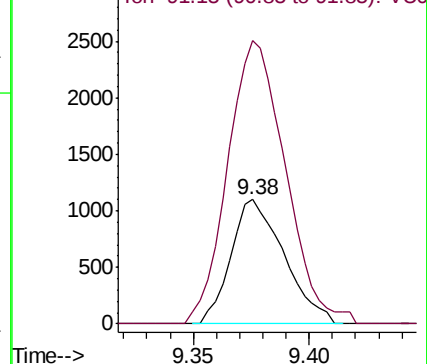
Ion Ratio Lower Upper

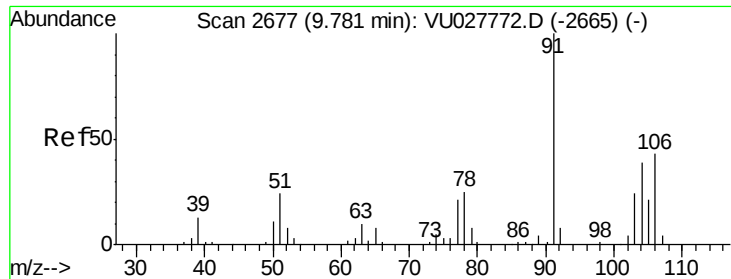
106 100

91 227.8 154.1 286.3



Abundance Ion 106.15 (105.85 to 106.85): VU027784.D (-2419) (-)

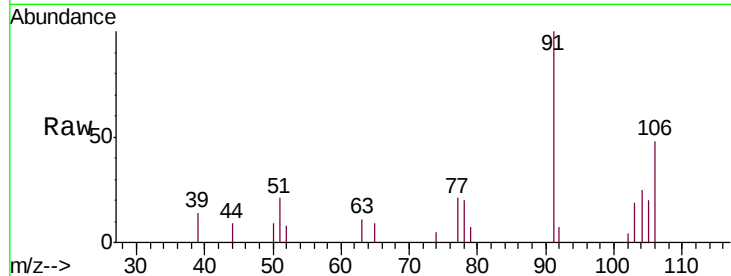




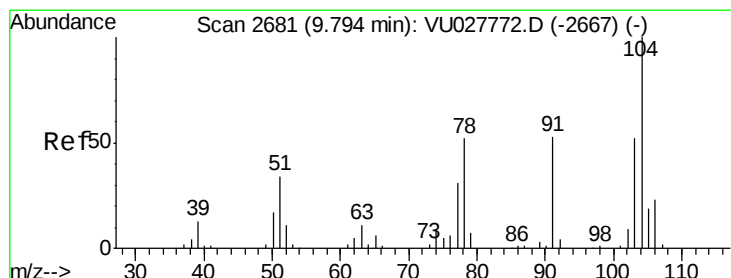
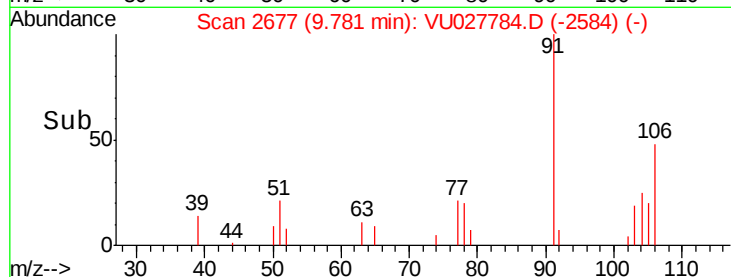
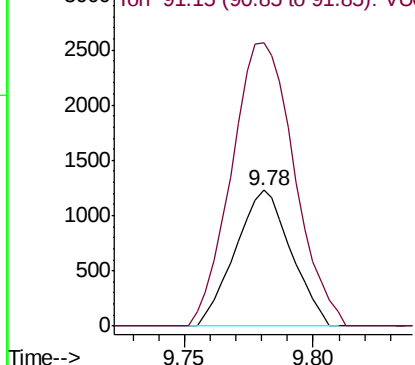
#54  
o-xylene  
Concen: 0.337 ug/L  
RT: 9.78 min Scan# 2677  
Delta R.T. -0.00 min  
Lab File: VU027784.D  
Acq: 24 Oct 2018 14:35

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL01

Tgt Ion:106 Resp: 1854  
Ion Ratio Lower Upper  
106 100  
91 208.7 161.3 299.7

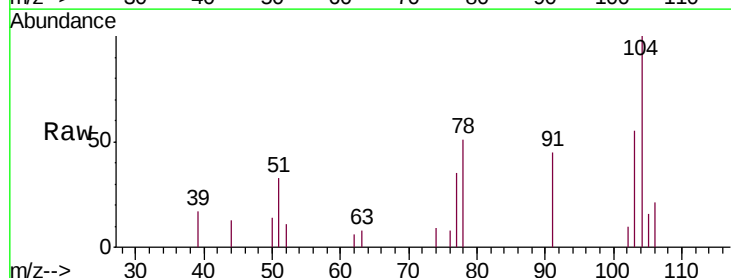


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0

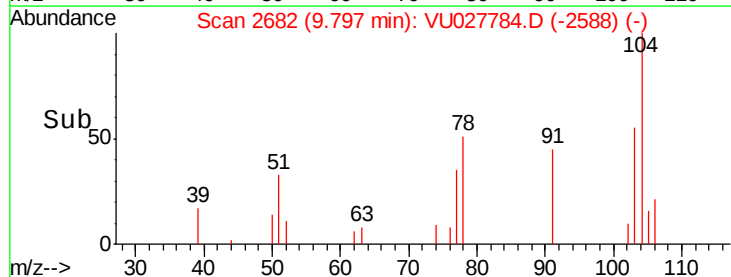
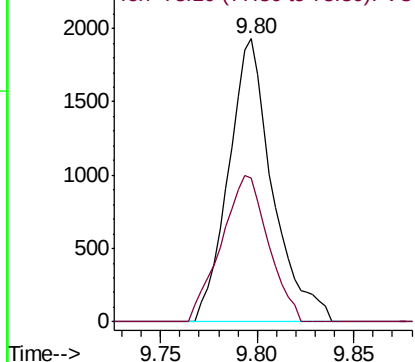


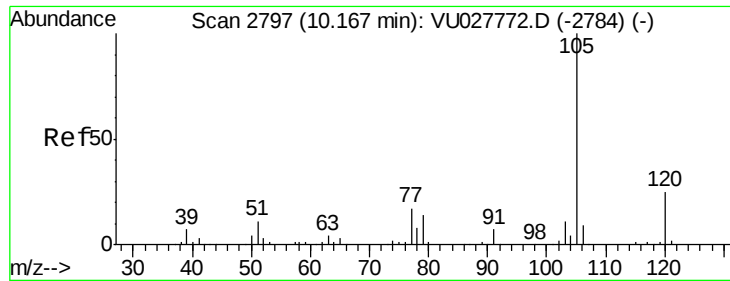
#55  
Styrene  
Concen: 0.327 ug/L  
RT: 9.80 min Scan# 2682  
Delta R.T. 0.00 min  
Lab File: VU027784.D  
Acq: 24 Oct 2018 14:35

Tgt Ion:104 Resp: 3048  
Ion Ratio Lower Upper  
104 100  
78 50.8 36.3 67.3



Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.324 ug/L

RT: 10.17 min Scan# 2797

Delta R.T. -0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

Instrument :

MSVOA\_U

ClientSampleId :

MDL01

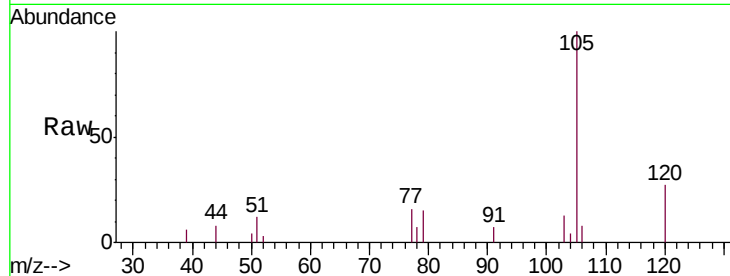
Tgt Ion: 105 Resp: 4939

Ion Ratio Lower Upper

105 100

120 26.6 19.9 29.9

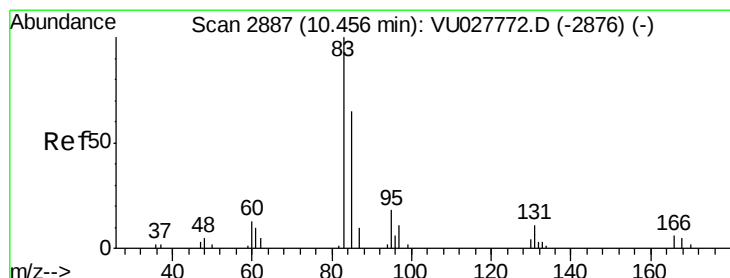
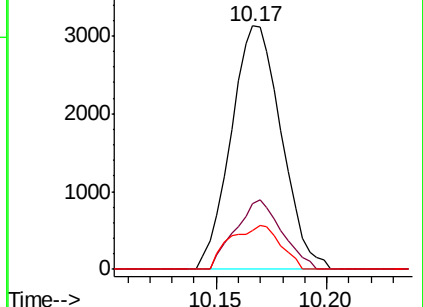
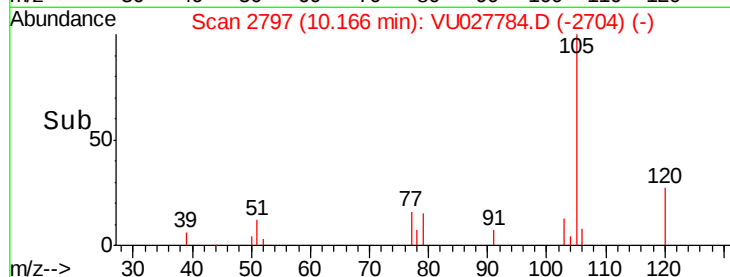
77 17.8 13.7 20.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.338 ug/L

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

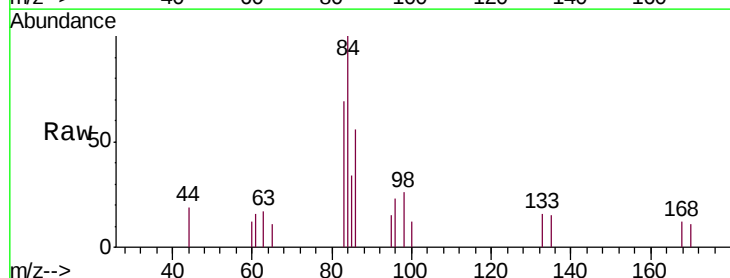
Tgt Ion: 83 Resp: 1002

Ion Ratio Lower Upper

83 100

85 48.6 45.5 84.5

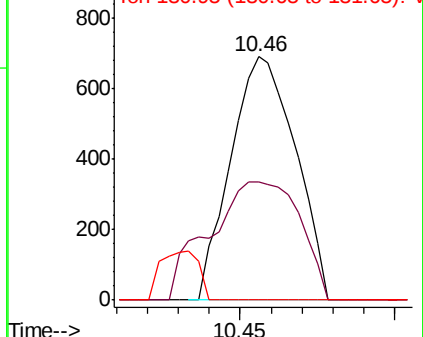
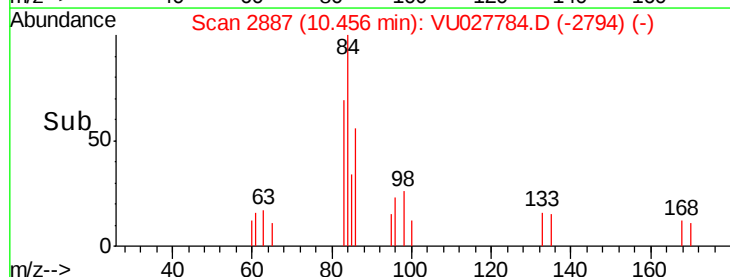
131 0.0 8.8 13.2#

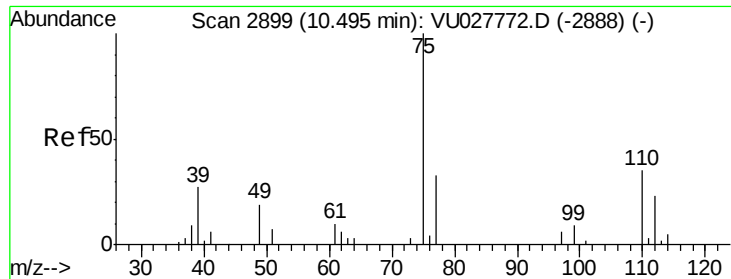


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 0.316 ug/L

RT: 10.49 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

Instrument :

MSVOA\_U

ClientSampled :

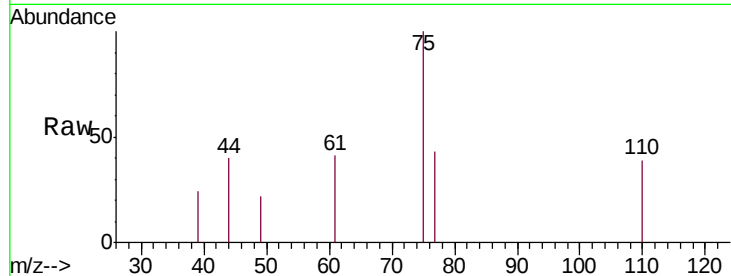
MDL01

Tgt Ion: 75 Resp: 744

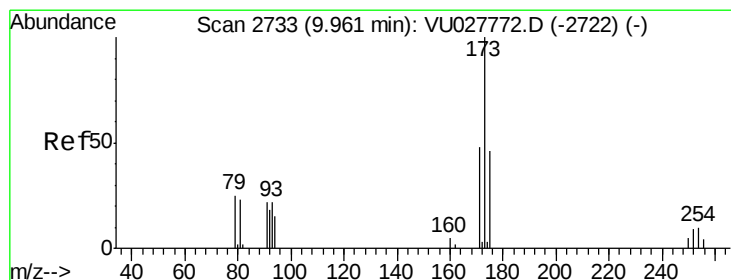
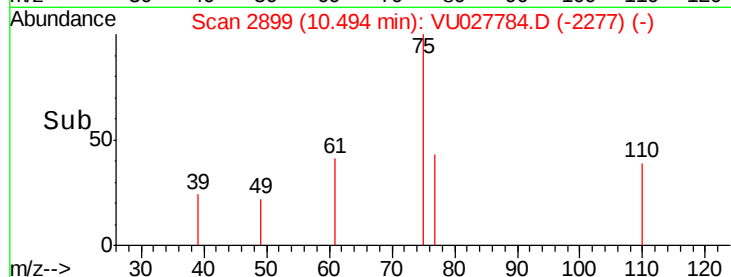
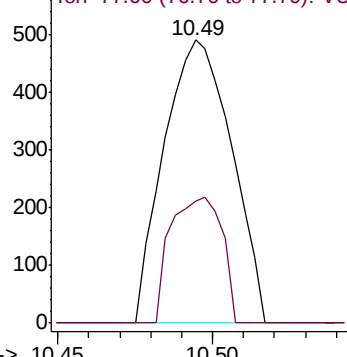
Ion Ratio Lower Upper

75 100

77 33.6 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VU027772.D (-2888) (-)



#61

Bromoform

Concen: 0.292 ug/L

RT: 9.96 min Scan# 2733

Delta R.T. -0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

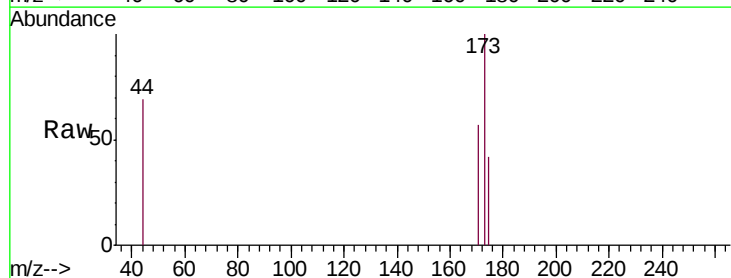
Tgt Ion: 173 Resp: 458

Ion Ratio Lower Upper

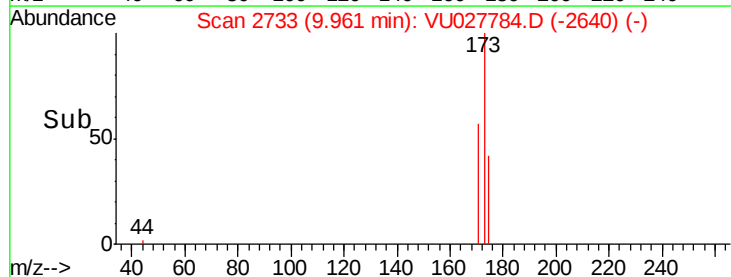
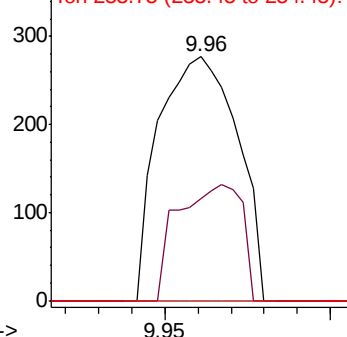
173 100

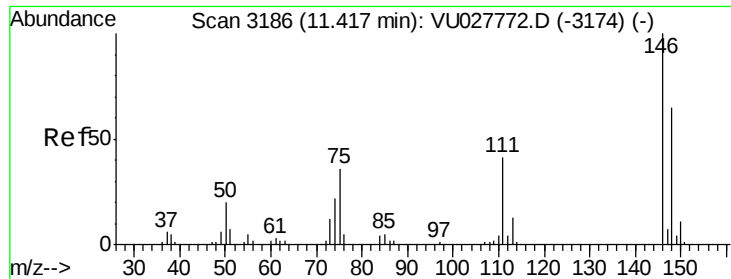
175 38.9 37.7 56.5

254 0.0 7.2 10.8#



Abundance Ion 172.90 (172.60 to 173.60): VU027772.D (-2722) (-)





#62

1,3-Dichlorobenzene

Concen: 0.366 ug/L

RT: 11.42 min Scan# 3187

Delta R.T. 0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

Instrument :

MSVOA\_U

ClientSampleId :

MDL01

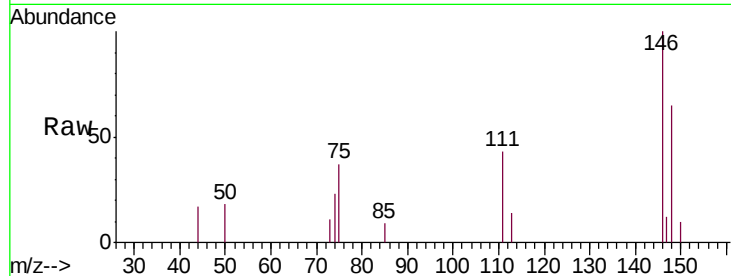
Tgt Ion:146 Resp: 2399

Ion Ratio Lower Upper

146 100

111 43.3 28.6 53.0

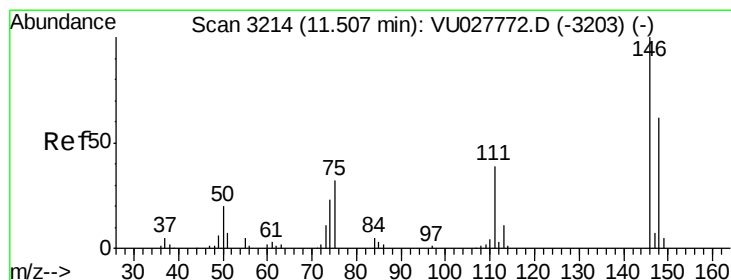
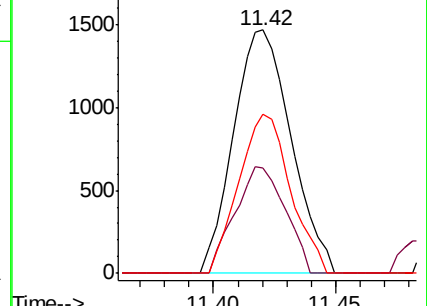
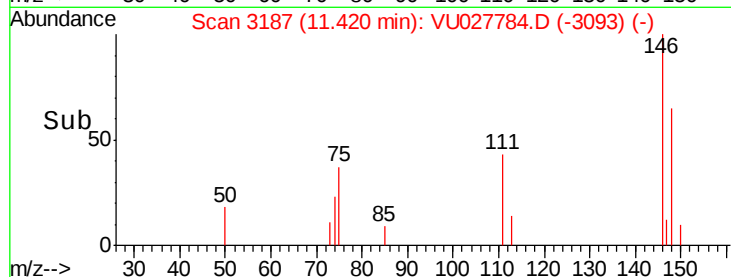
148 65.1 45.1 83.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 0.380 ug/L

RT: 11.51 min Scan# 3215

Delta R.T. 0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

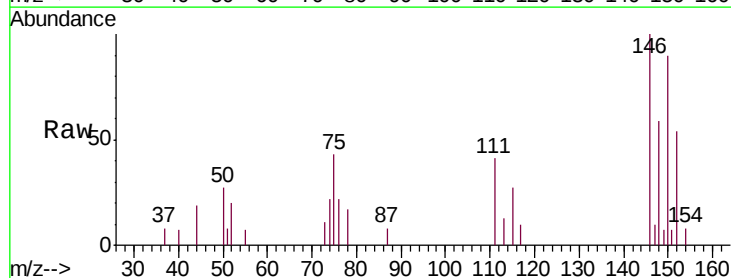
Tgt Ion:146 Resp: 2516

Ion Ratio Lower Upper

146 100

111 40.6 27.6 51.4

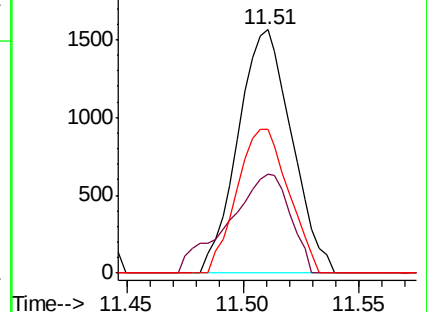
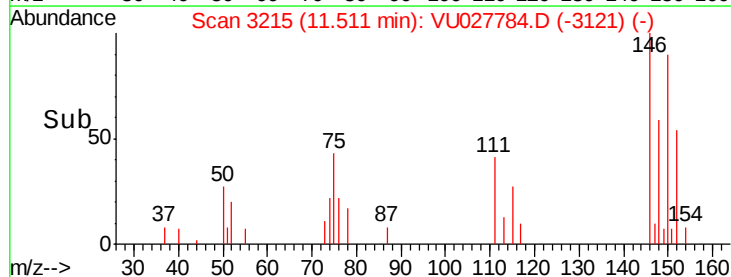
148 59.0 43.3 80.3

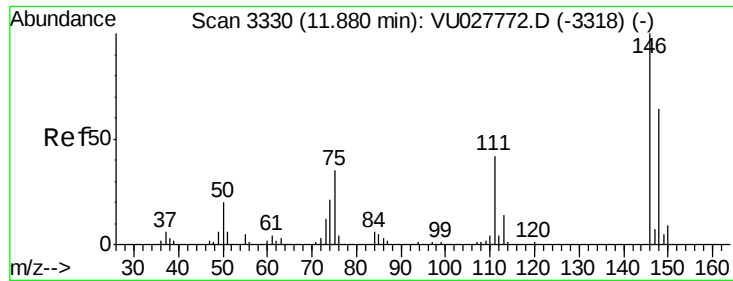


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

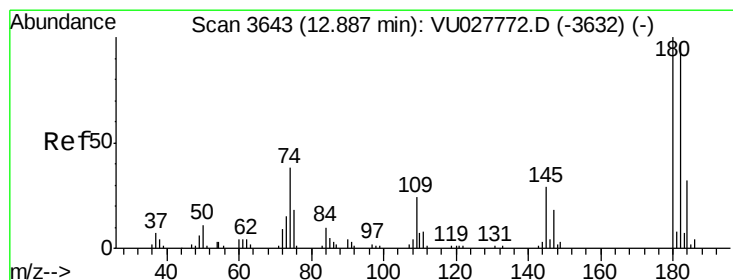
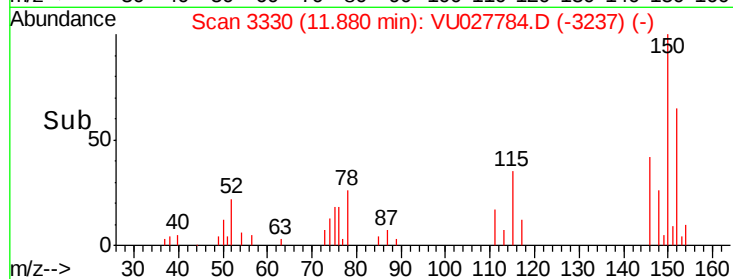
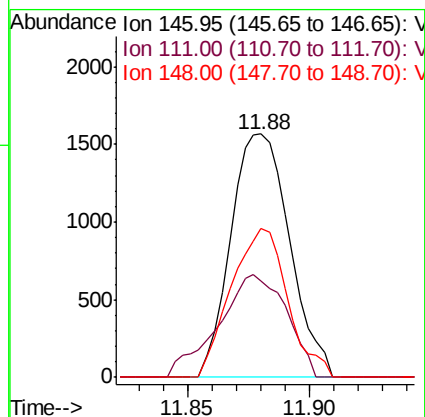
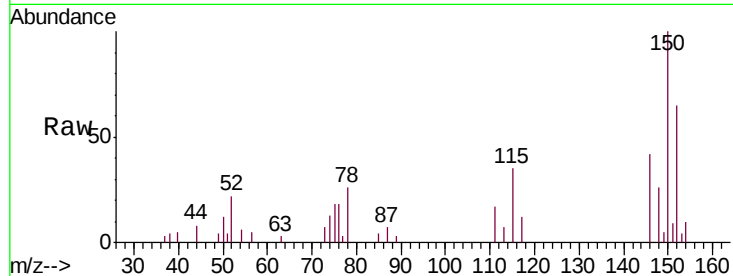




#65  
 1,2-Dichlorobenzene  
 Concen: 0.425 ug/L  
 RT: 11.88 min Scan# 3330  
 Delta R.T. -0.00 min  
 Lab File: VU027784.D  
 Acq: 24 Oct 2018 14:35

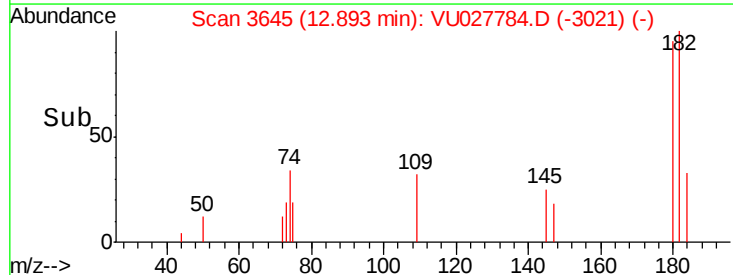
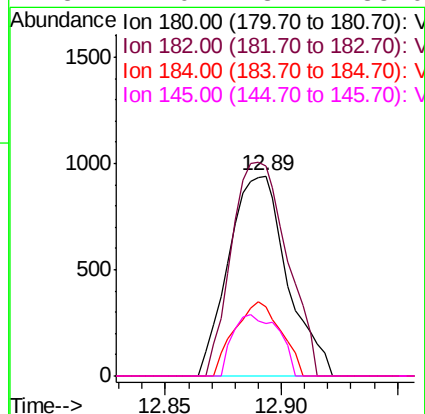
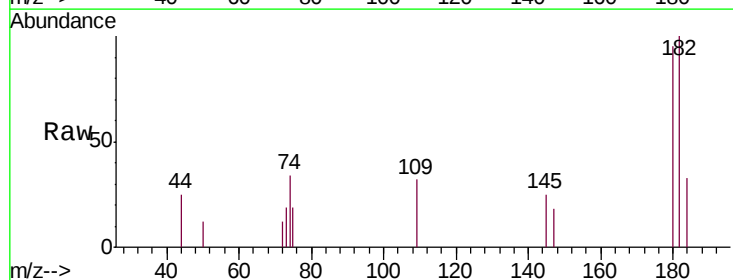
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL01

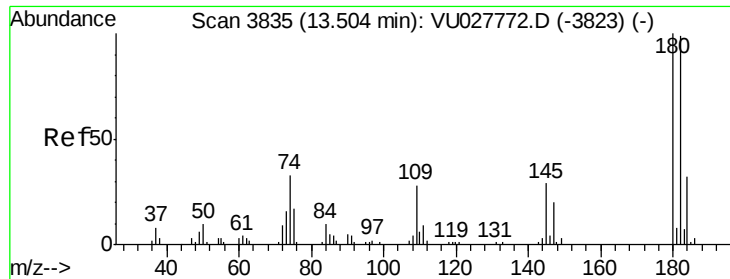
Tgt Ion:146 Resp: 2617  
 Ion Ratio Lower Upper  
 146 100  
 111 39.7 33.7 50.5  
 148 61.0 50.8 76.2



#67  
 1,3,5-Trichlorobenzene  
 Concen: 0.314 ug/L  
 RT: 12.89 min Scan# 3645  
 Delta R.T. 0.01 min  
 Lab File: VU027784.D  
 Acq: 24 Oct 2018 14:35

Tgt Ion:180 Resp: 1650  
 Ion Ratio Lower Upper  
 180 100  
 182 101.0 78.9 118.3  
 184 29.4 24.6 37.0  
 145 24.0 23.4 35.0

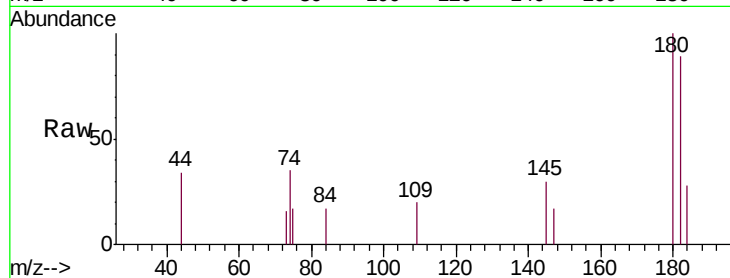




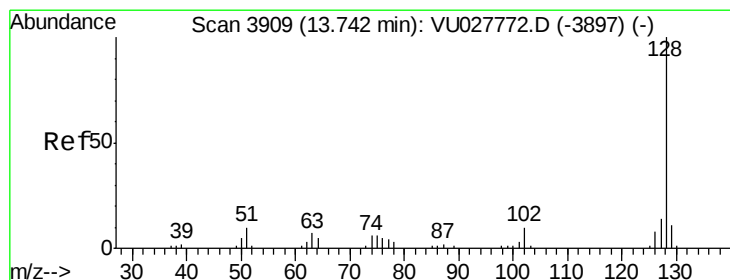
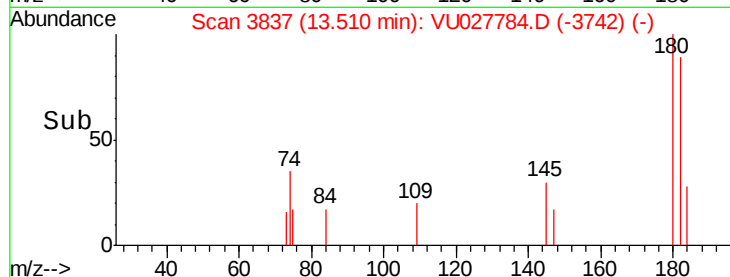
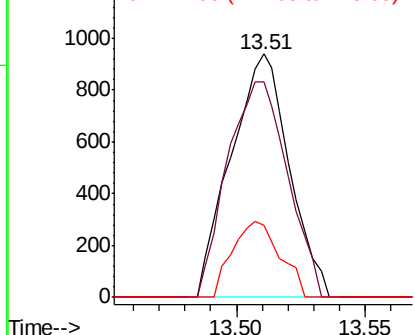
#68  
 1,2,4-trichlorobenzene  
 Concen: 0.324 ug/L  
 RT: 13.51 min Scan# 3837  
 Delta R.T. 0.01 min  
 Lab File: VU027784.D  
 Acq: 24 Oct 2018 14:35

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL01

Tgt Ion:180 Resp: 1479  
 Ion Ratio Lower Upper  
 180 100  
 182 91.6 77.6 116.4  
 145 25.6 23.7 35.5

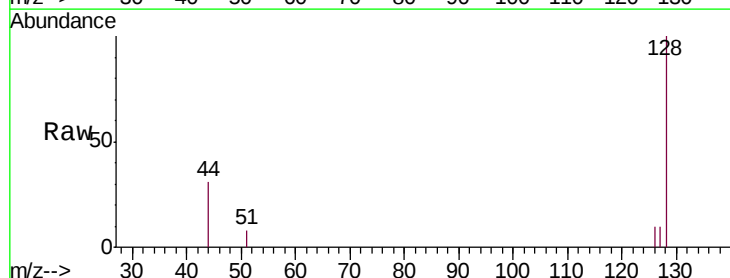


Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V

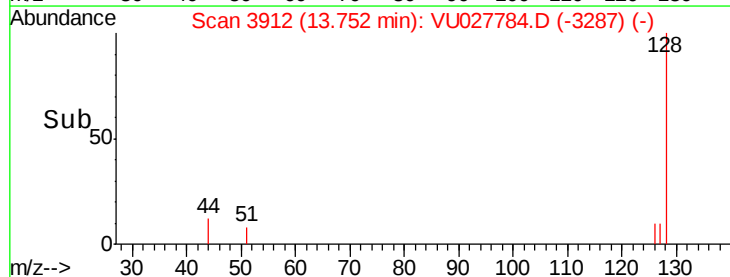
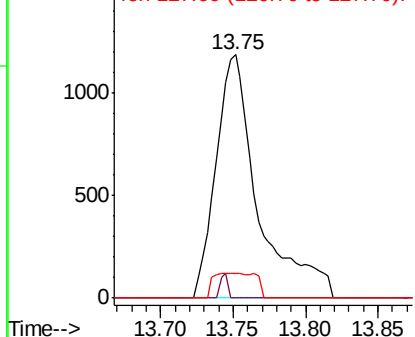


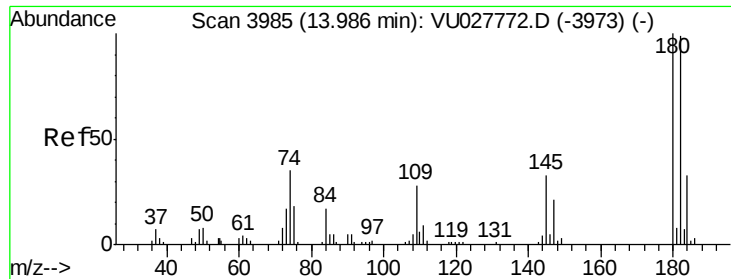
#69  
 Naphthalene  
 Concen: 0.323 ug/L  
 RT: 13.75 min Scan# 3912  
 Delta R.T. 0.01 min  
 Lab File: VU027784.D  
 Acq: 24 Oct 2018 14:35

Tgt Ion:128 Resp: 2397  
 Ion Ratio Lower Upper  
 128 100  
 129 1.8 8.8 13.2#  
 127 10.3 10.7 16.1#



Abundance Ion 128.00 (127.70 to 128.70): V  
 Ion 129.00 (128.70 to 129.70): V  
 Ion 127.00 (126.70 to 127.70): V





#70

1,2,3-Trichlorobenzene

Concen: 0.300 ug/L

RT: 13.98 min Scan# 3984

Delta R.T. -0.00 min

Lab File: VU027784.D

Acq: 24 Oct 2018 14:35

Instrument :

MSVOA\_U

ClientSampleId :

MDL01

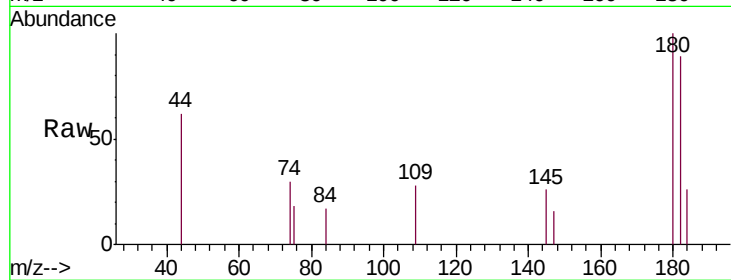
Tgt Ion:180 Resp: 1262

Ion Ratio Lower Upper

180 100

182 100.2 76.9 115.3

145 23.5 24.6 37.0#



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

