

Data File : VU039279.D  
Acq On : 06 Jul 2020 09:31  
Operator : SY/MD  
Sample : VSTD0.504  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.504

Quant Time: Jul 06 10:58:43 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR070620WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Mon Jul 06 10:57:06 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.26  | 114  | 179615   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.42  | 117  | 165120   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.81 | 152  | 81402    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |       |      |      |      |
|--------------------------------|-------|-----|-------|------|------|------|
| 4) Vinyl Chloride-d3           | 1.61  | 65  | 6787  | 0.53 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.93  | 69  | 6700  | 0.59 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.58  | 63  | 12829 | 0.50 | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 4.66  | 46  | 25451 | 6.11 | ug/L | 0.00 |
| 24) Chloroform-d               | 5.09  | 84  | 12309 | 0.47 | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.72  | 65  | 8366  | 0.55 | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.75  | 84  | 24098 | 0.62 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.70  | 67  | 8455  | 0.68 | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.91  | 98  | 22429 | 0.63 | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 8.19  | 79  | 3678  | 0.58 | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 8.64  | 63  | 19435 | 6.15 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.76 | 84  | 7918  | 0.62 | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 12.19 | 152 | 9202  | 0.65 | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 5311  | 0.338 ug/L   | 100    |
| 3) Chloromethane               | 1.53 | 50  | 7009  | 0.408 ug/L   | 98     |
| 5) Vinyl chloride              | 1.61 | 62  | 6771  | 0.399 ug/L # | 74     |
| 6) Bromomethane                | 1.87 | 94  | 4333  | 0.417 ug/L   | 99     |
| 9) Trichlorofluoromethane      | 2.15 | 101 | 10286 | 0.398 ug/L   | 98     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.59 | 101 | 5277  | 0.416 ug/L   | 95     |
| 12) 1,1-Dichloroethene         | 2.59 | 96  | 5314  | 0.454 ug/L   | 94     |
| 13) Acetone                    | 2.66 | 43  | 14369 | 4.805 ug/L   | 98     |
| 14) Carbon disulfide           | 2.81 | 76  | 17037 | 0.451 ug/L   | 98     |
| 15) Methyl Acetate             | 2.97 | 43  | 2986  | 0.439 ug/L # | 88     |
| 16) Methylene chloride         | 3.06 | 84  | 7909  | 0.529 ug/L   | 90     |
| 17) Methyl tert-butyl Ether    | 3.38 | 73  | 17586 | 0.459 ug/L   | 95     |
| 18) trans-1,2-Dichloroethene   | 3.37 | 96  | 5622  | 0.421 ug/L   | 88     |
| 19) 1,1-Dichloroethane         | 3.89 | 63  | 11931 | 0.442 ug/L   | 96     |
| 21) 2-Butanone                 | 4.74 | 43  | 23454 | 4.935 ug/L   | 100    |
| 22) cis-1,2-Dichloroethene     | 4.69 | 96  | 6795  | 0.494 ug/L   | 85     |
| 23) Bromochloromethane         | 5.00 | 128 | 2858  | 0.427 ug/L   | 98     |
| 25) Chloroform                 | 5.11 | 83  | 12284 | 0.440 ug/L   | 98     |
| 27) 1,2-Dichloroethane         | 5.81 | 62  | 8766  | 0.446 ug/L   | 96     |
| 29) 1,1,1-Trichloroethane      | 5.33 | 97  | 9655  | 0.468 ug/L   | 93     |
| 30) Cyclohexane                | 5.40 | 56  | 9391  | 0.509 ug/L   | 97     |
| 31) Carbon tetrachloride       | 5.54 | 117 | 8380  | 0.488 ug/L   | 96     |
| 33) Benzene                    | 5.79 | 78  | 25244 | 0.539 ug/L   | 100    |
| 34) Trichloroethene            | 6.56 | 95  | 6136  | 0.507 ug/L   | 99     |
| 35) Methylcyclohexane          | 6.77 | 83  | 10032 | 0.560 ug/L   | 97     |
| 37) 1,2-Dichloropropane        | 6.81 | 63  | 6990  | 0.565 ug/L # | 93     |
| 38) Bromodichloromethane       | 7.12 | 83  | 9316  | 0.554 ug/L   | 95     |
| 39) cis-1,3-Dichloropropene    | 7.62 | 75  | 10724 | 0.554 ug/L   | 91     |
| 40) 4-Methyl-2-pentanone       | 7.80 | 43  | 60403 | 5.981 ug/L   | 99     |
| 42) Toluene                    | 7.98 | 91  | 26137 | 0.497 ug/L   | 95     |

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR070620WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Mon Jul 06 10:57:06 2020  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 44) trans-1,3-Dichloropropene  | 8.22  | 75   | 9659     | 0.507 | ug/L   | 95       |
| 45) 1,1,2-Trichloroethane      | 8.41  | 97   | 5186     | 0.501 | ug/L   | 96       |
| 47) Tetrachloroethene          | 8.56  | 164  | 4131     | 0.458 | ug/L   | 89       |
| 48) 2-Hexanone                 | 8.69  | 43   | 43637    | 5.305 | ug/L   | 98       |
| 49) Dibromochloromethane       | 8.82  | 129  | 6157     | 0.530 | ug/L   | 94       |
| 50) 1,2-Dibromoethane          | 8.93  | 107  | 4829     | 0.492 | ug/L # | 94       |
| 51) Chlorobenzene              | 9.45  | 112  | 15744    | 0.471 | ug/L   | 94       |
| 52) Ethylbenzene               | 9.57  | 91   | 27649    | 0.490 | ug/L   | 99       |
| 53) m,p-Xylene                 | 9.69  | 106  | 10189    | 0.494 | ug/L   | 97       |
| 54) o-Xylene                   | 10.10 | 106  | 10094    | 0.509 | ug/L   | 97       |
| 55) Styrene                    | 10.11 | 104  | 18351    | 0.525 | ug/L   | 99       |
| 56) Isopropylbenzene           | 10.48 | 105  | 28190    | 0.535 | ug/L   | 98       |
| 58) 1,1,2,2-Tetrachloroethane  | 10.78 | 83   | 7291     | 0.533 | ug/L   | 98       |
| 59) 1,2,3-Trichloropropane     | 10.83 | 75   | 5223     | 0.510 | ug/L   | 97       |
| 61) Bromoform                  | 10.29 | 173  | 3600     | 0.540 | ug/L # | 96       |
| 62) 1,3-Dichlorobenzene        | 11.74 | 146  | 12990    | 0.507 | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene        | 11.83 | 146  | 12963    | 0.509 | ug/L   | 97       |
| 65) 1,2-Dichlorobenzene        | 12.21 | 146  | 12682    | 0.495 | ug/L   | 96       |
| 66) 1,2-Dibromo-3-chloropropan | 12.99 | 75   | 1196     | 0.464 | ug/L # | 80       |
| 67) 1,3,5-Trichlorobenzene     | 13.21 | 180  | 9607     | 0.504 | ug/L   | 98       |
| 68) 1,2,4-trichlorobenzene     | 13.83 | 180  | 8049     | 0.500 | ug/L   | 95       |
| 69) Naphthalene                | 14.08 | 128  | 14264    | 0.493 | ug/L   | 98       |
| 70) 1,2,3-Trichlorobenzene     | 14.32 | 180  | 7334     | 0.490 | ug/L   | 98       |

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

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MSVOA\_U  
**ClientSampleId :**  
VSTD0.504

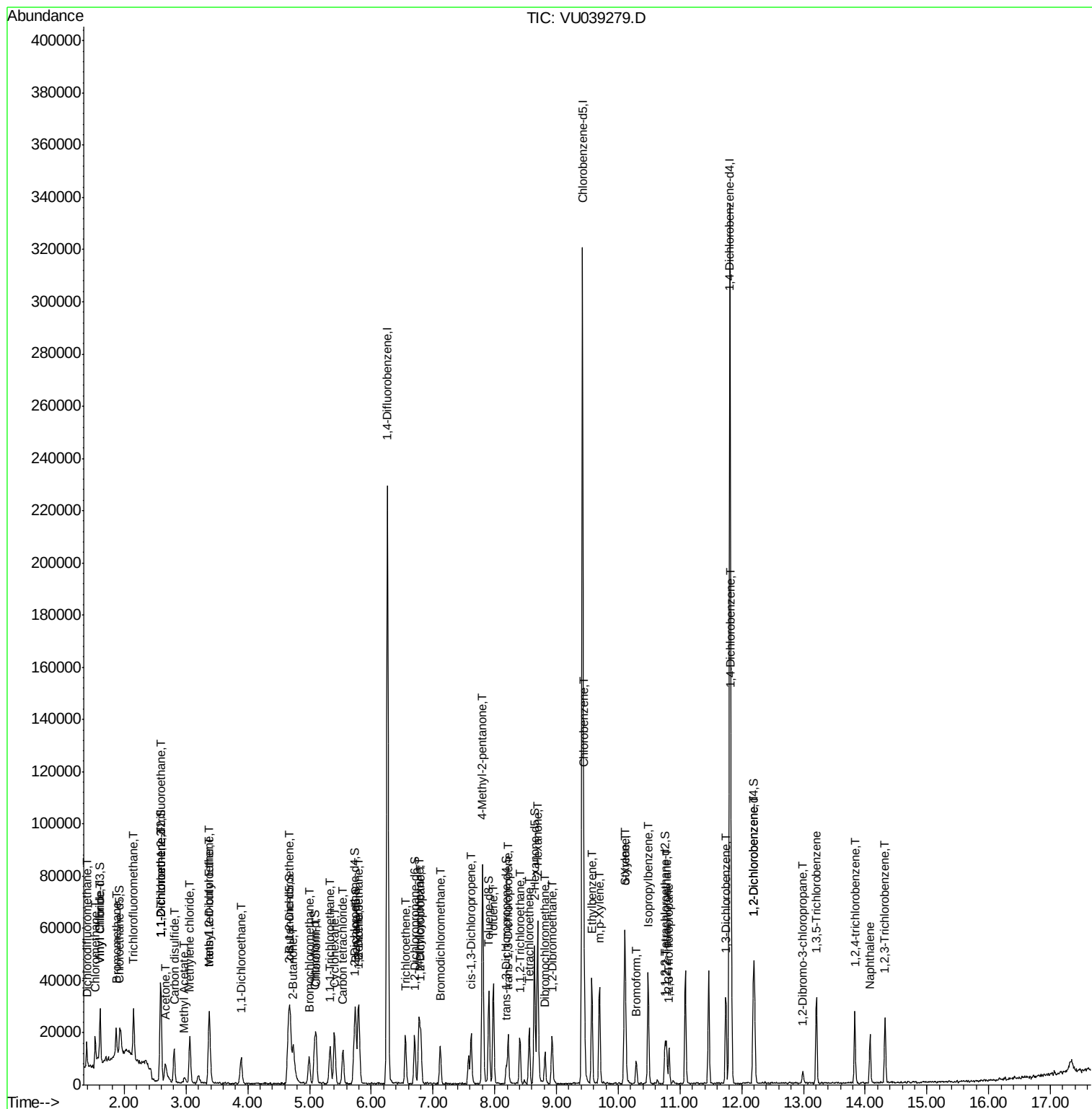
Quant Time: Jul 06 10:58:43 2020

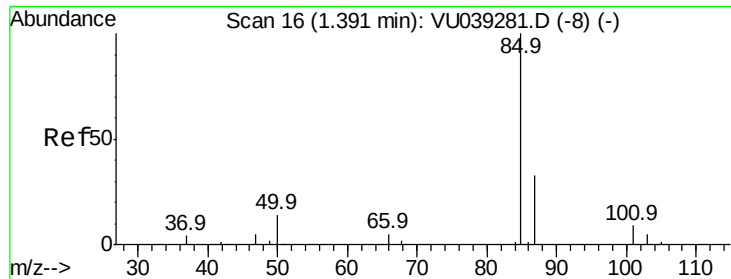
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_U\METHOD\SOMUTR070620WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Mon Jul 06 10:57:06 2020

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#2

Dichlorodifluoromethane

Concen: 0.338 ug/L

RT: 1.39 min Scan# 15

Delta R.T. -0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

Instrument :

MSVOA\_U

ClientSampleId :

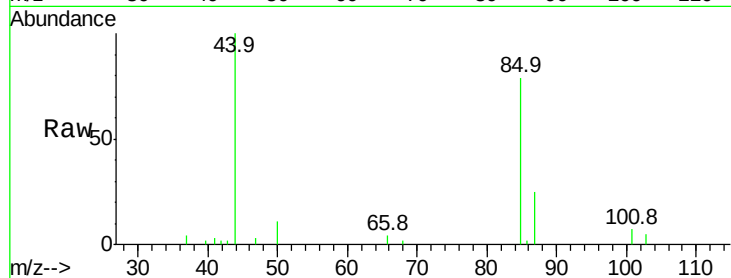
VSTD0.504

Tgt Ion: 85 Resp: 5311

Ion Ratio Lower Upper

85 100

87 33.4 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VU039281.D (-8) (-)

Ion 87.00 (86.70 to 87.70): VU039281.D (-8) (-)

1.39

6000

5000

4000

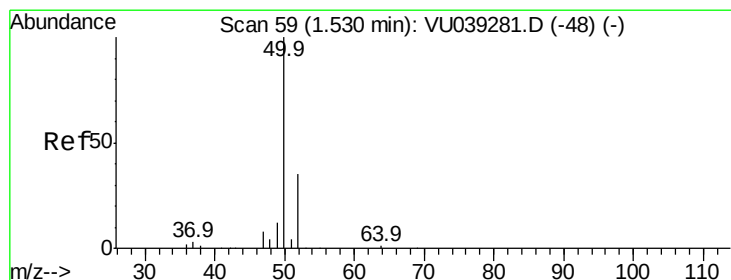
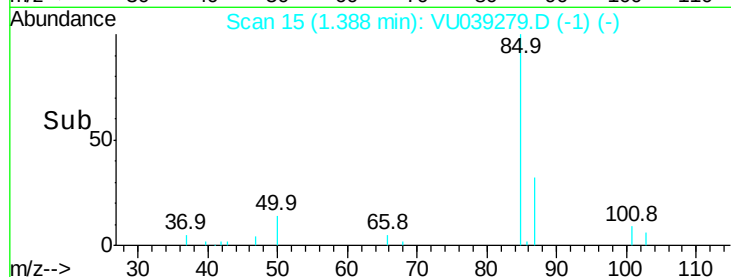
3000

2000

1000

0

Time-->



#3

Chloromethane

Concen: 0.408 ug/L

RT: 1.53 min Scan# 59

Delta R.T. 0.00 min

Lab File: VU039279.D

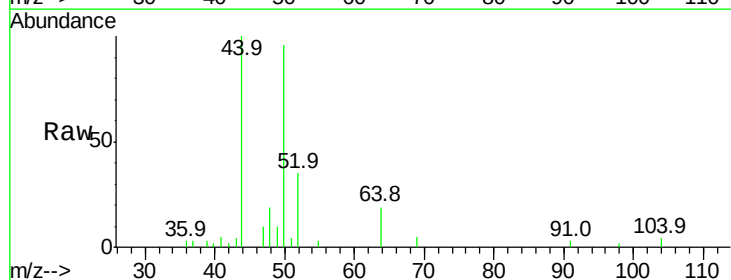
Acq: 06 Jul 2020 09:31

Tgt Ion: 50 Resp: 7009

Ion Ratio Lower Upper

50 100

52 36.2 24.7 45.9



Abundance Ion 50.05 (49.75 to 50.75): VU039281.D (-48) (-)

Ion 52.05 (51.75 to 52.75): VU039281.D (-48) (-)

1.53

6000

5000

4000

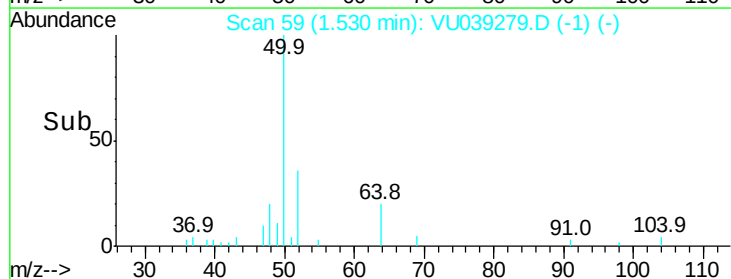
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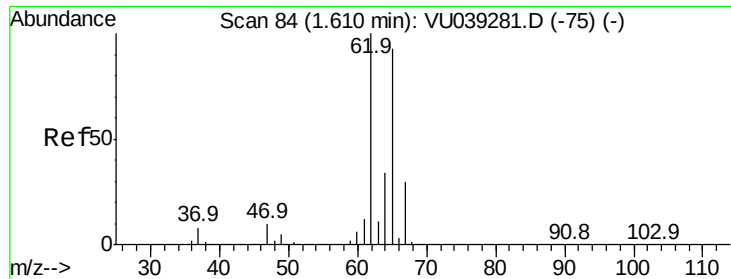
2000

1000

0

Time-->





#5

Vinyl chloride

Concen: 0.399 ug/L

RT: 1.61 min Scan# 84

Delta R.T. 0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

Instrument :

MSVOA\_U

ClientSampleId :

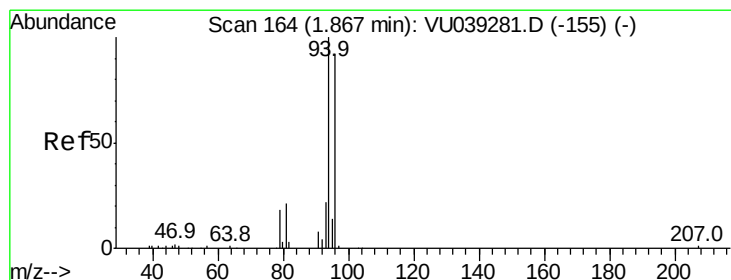
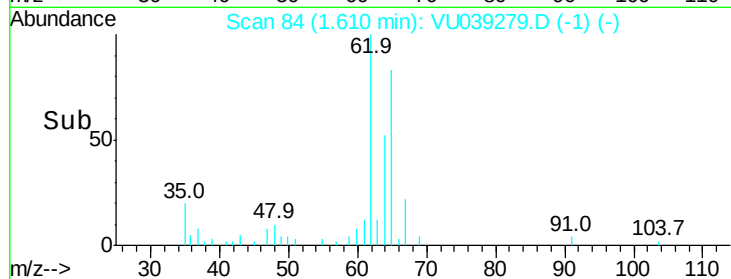
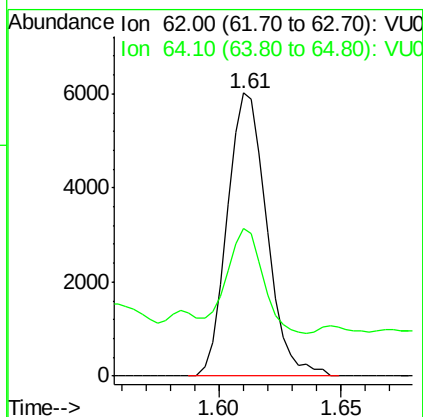
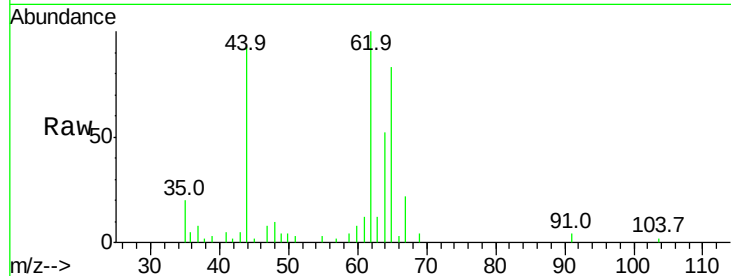
VSTD0.504

Tgt Ion: 62 Resp: 6771

Ion Ratio Lower Upper

62 100

64 52.1 25.6 47.4#



#6

Bromomethane

Concen: 0.417 ug/L

RT: 1.87 min Scan# 164

Delta R.T. 0.00 min

Lab File: VU039279.D

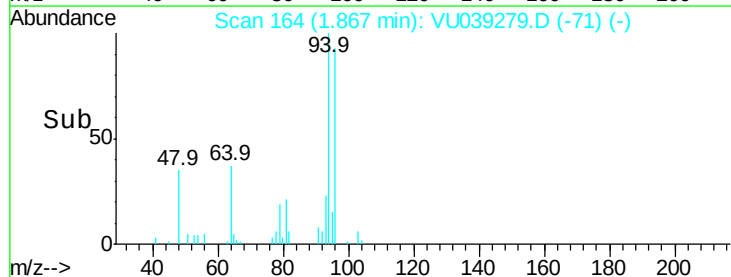
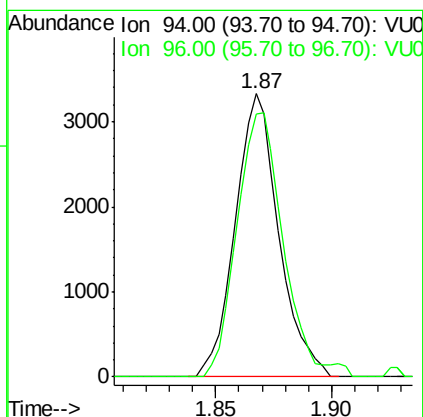
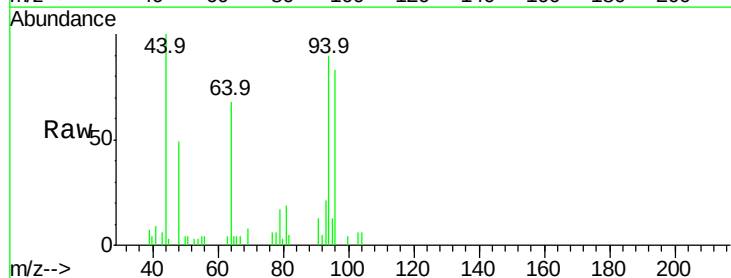
Acq: 06 Jul 2020 09:31

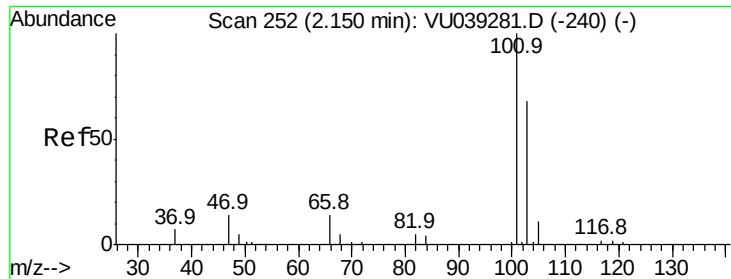
Tgt Ion: 94 Resp: 4333

Ion Ratio Lower Upper

94 100

96 93.1 64.3 119.5

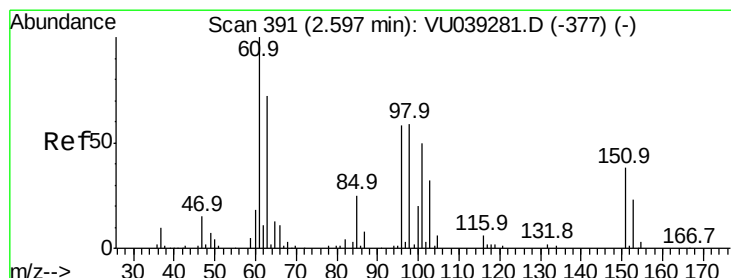
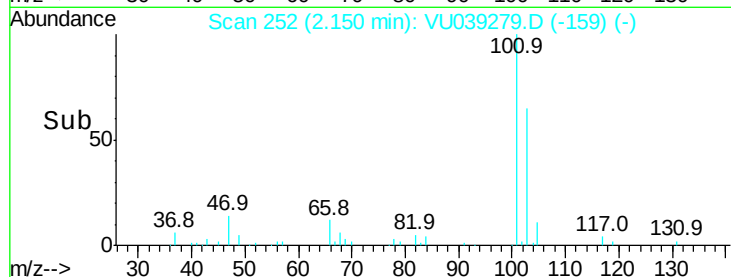
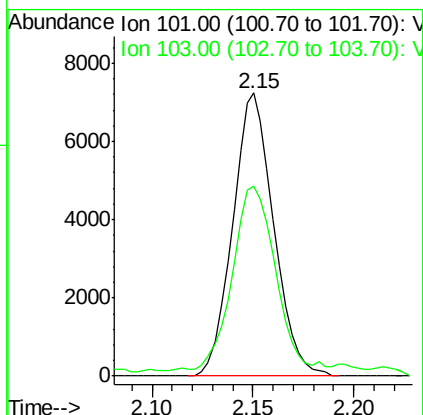
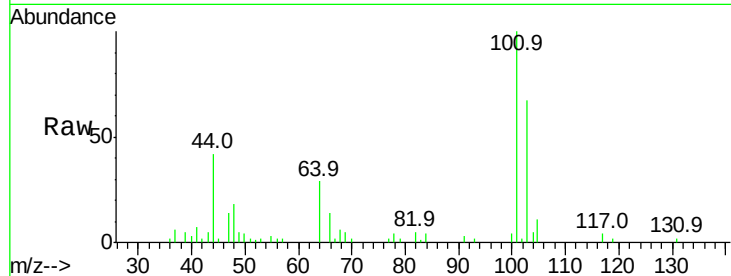




#9  
 Trichlorofluoromethane  
 Concen: 0.398 ug/L  
 RT: 2.15 min Scan# 252  
 Delta R.T. 0.00 min  
 Lab File: VU039279.D  
 Acq: 06 Jul 2020 09:31

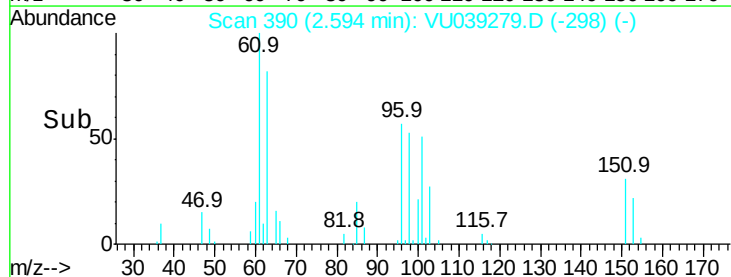
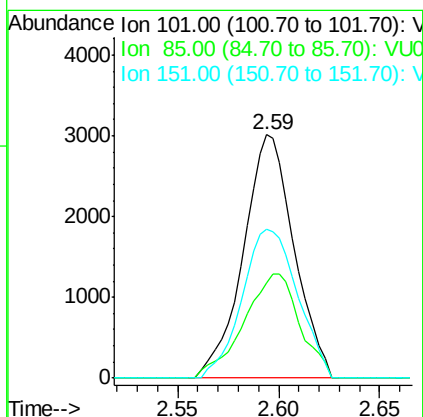
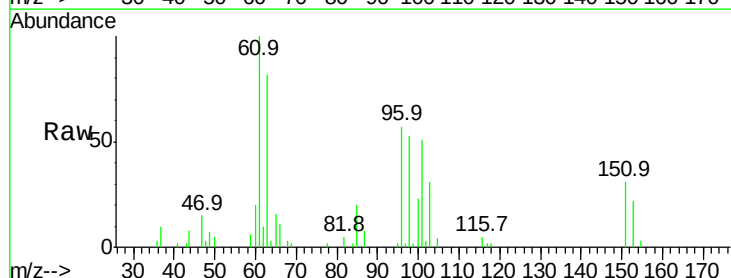
Instrument :  
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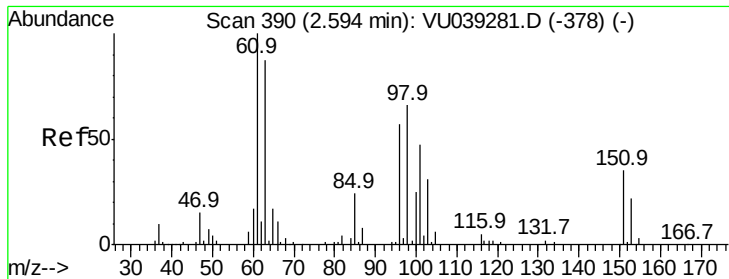
Tgt Ion:101 Resp: 10286  
 Ion Ratio Lower Upper  
 101 100  
 103 68.5 53.4 80.2



#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.416 ug/L  
 RT: 2.59 min Scan# 390  
 Delta R.T. -0.00 min  
 Lab File: VU039279.D  
 Acq: 06 Jul 2020 09:31

Tgt Ion:101 Resp: 5277  
 Ion Ratio Lower Upper  
 101 100  
 85 47.3 38.4 57.6  
 151 66.9 58.3 87.5





#12

1,1-Dichloroethene

Concen: 0.454 ug/L

RT: 2.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.504

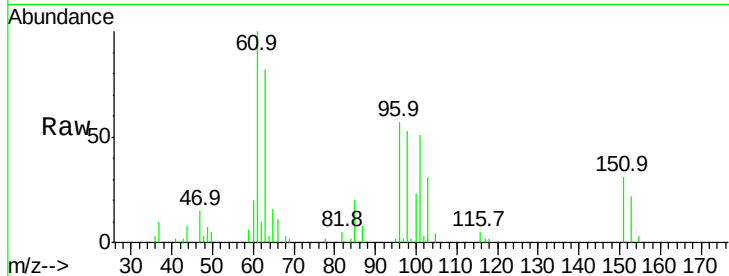
Tgt Ion: 96 Resp: 5314

Ion Ratio Lower Upper

96 100

61 176.9 123.8 230.0

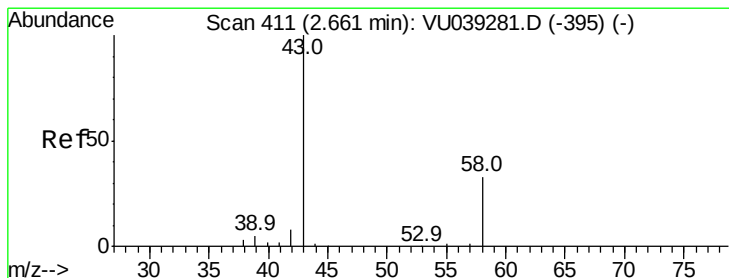
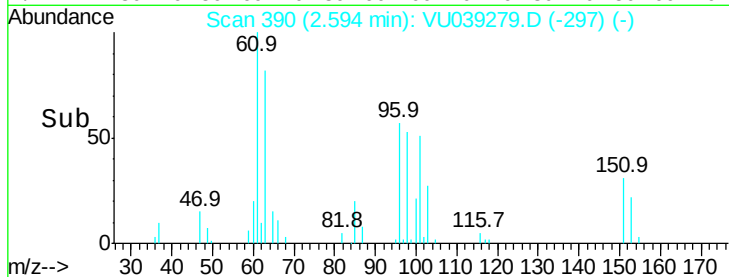
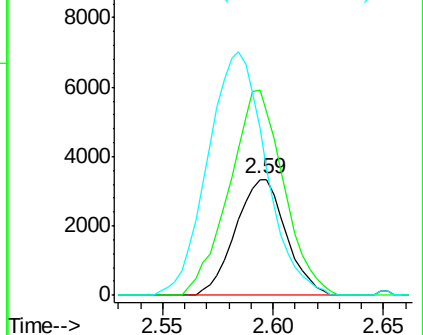
63 144.3 112.1 208.3



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



#13

Acetone

Concen: 4.805 ug/L

RT: 2.66 min Scan# 412

Delta R.T. 0.00 min

Lab File: VU039279.D

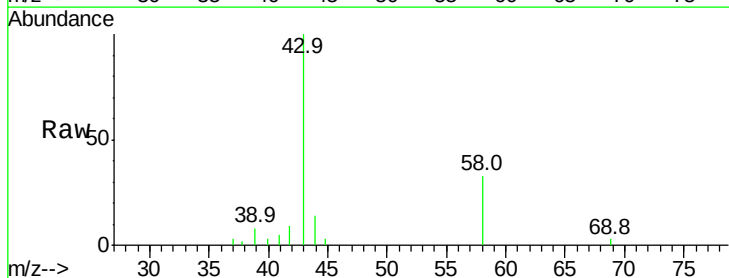
Acq: 06 Jul 2020 09:31

Tgt Ion: 43 Resp: 14369

Ion Ratio Lower Upper

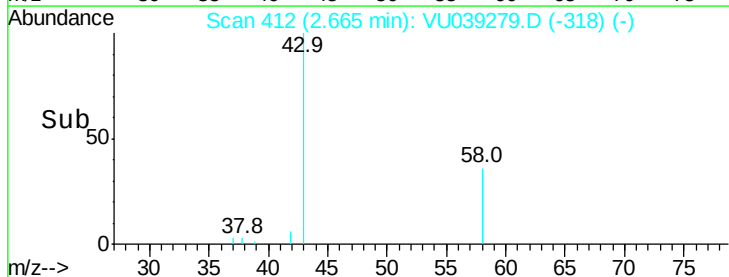
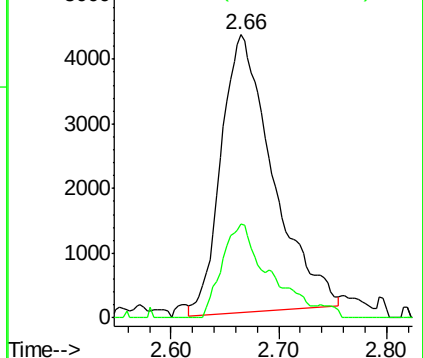
43 100

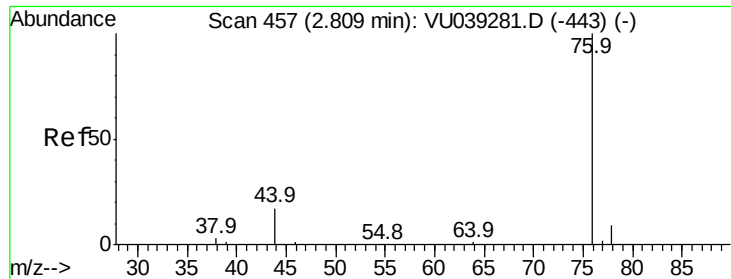
58 30.5 0.0 63.6



Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0





#14

Carbon disulfide

Concen: 0.451 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

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Acq: 06 Jul 2020 09:31

Instrument :

MSVOA\_U

ClientSampleId :

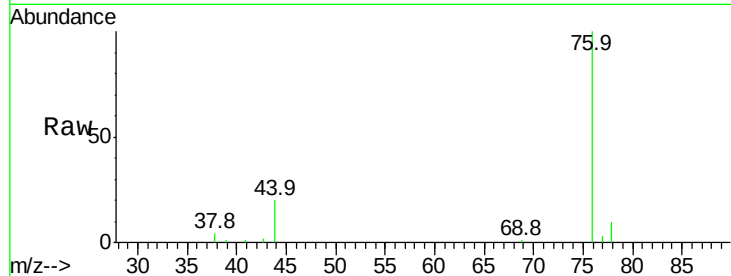
VSTD0.504

Tgt Ion: 76 Resp: 17037

Ion Ratio Lower Upper

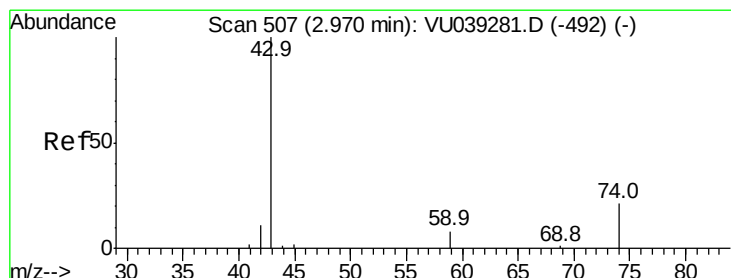
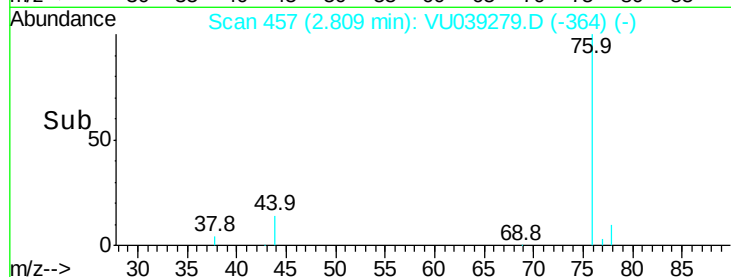
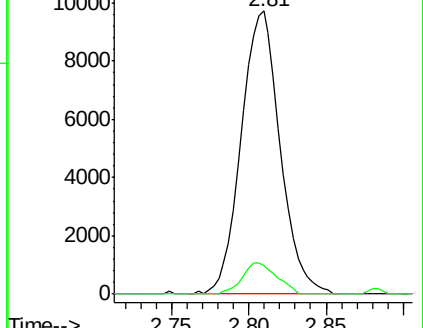
76 100

78 10.0 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VU039281.D (-443) (-)

Ion 78.00 (77.70 to 78.70): VU039281.D (-443) (-)



#15

Methyl Acetate

Concen: 0.439 ug/L

RT: 2.97 min Scan# 508

Delta R.T. 0.00 min

Lab File: VU039279.D

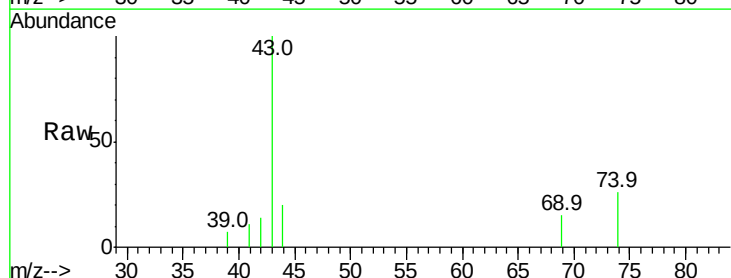
Acq: 06 Jul 2020 09:31

Tgt Ion: 43 Resp: 2986

Ion Ratio Lower Upper

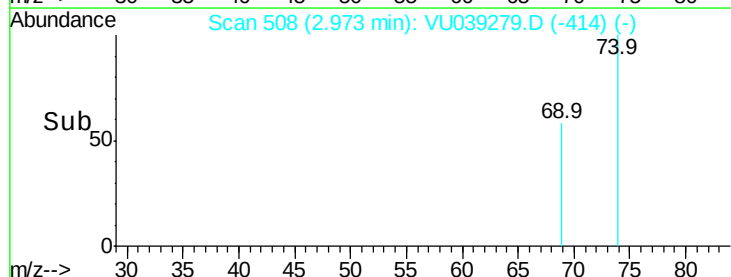
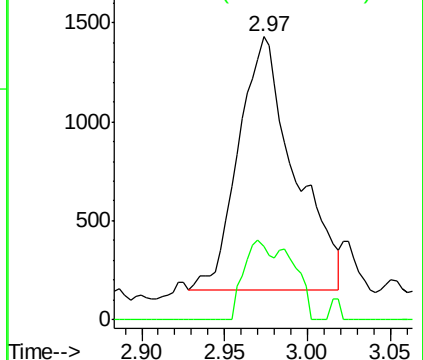
43 100

74 16.1 17.5 26.3#

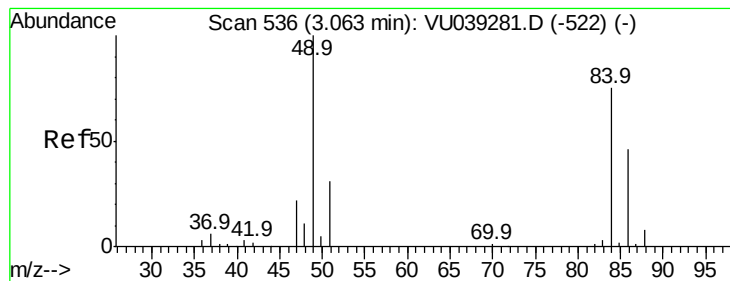


Abundance Ion 43.05 (42.75 to 43.75): VU039279.D (-414) (-)

Ion 74.05 (73.75 to 74.75): VU039279.D (-414) (-)







#16

Methylene chloride

Concen: 0.529 ug/L

RT: 3.06 min Scan# 536

Delta R.T. 0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.504

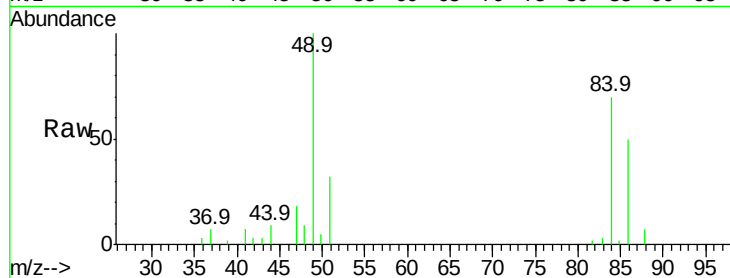
Tgt Ion: 84 Resp: 7909

Ion Ratio Lower Upper

84 100

86 71.2 42.6 79.0

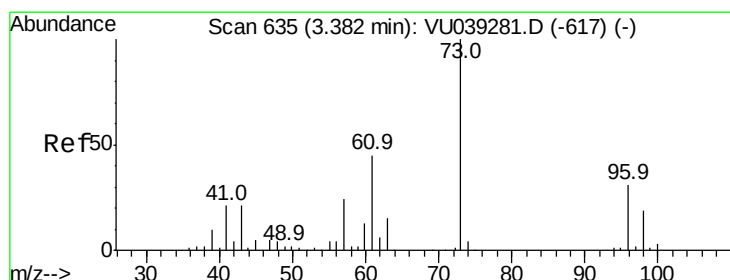
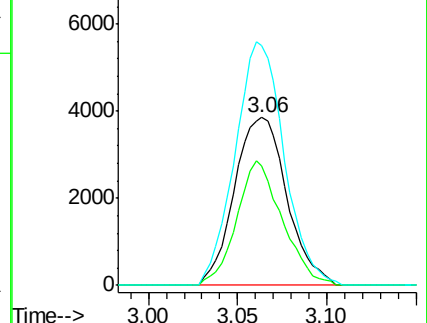
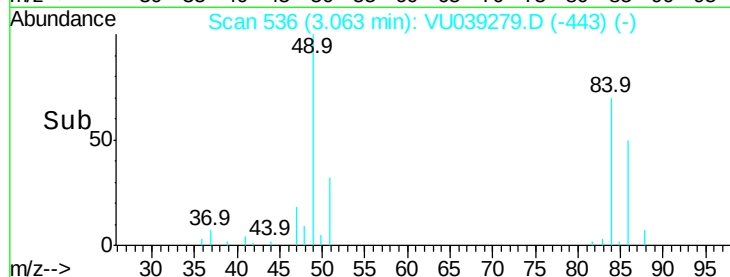
49 143.0 93.0 172.8



Abundance Ion 84.05 (83.75 to 84.75): VU039279.D (-542) (-)

Ion 86.00 (85.70 to 86.70): VU039279.D (-542) (-)

Ion 49.10 (48.80 to 49.80): VU039279.D (-542) (-)



#17

Methyl tert-butyl Ether

Concen: 0.459 ug/L

RT: 3.38 min Scan# 635

Delta R.T. 0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

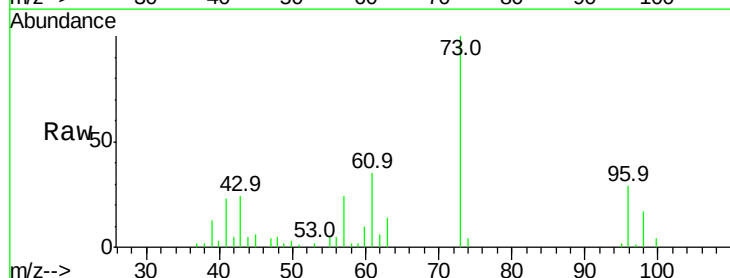
Tgt Ion: 73 Resp: 17586

Ion Ratio Lower Upper

73 100

43 25.8 17.5 26.3

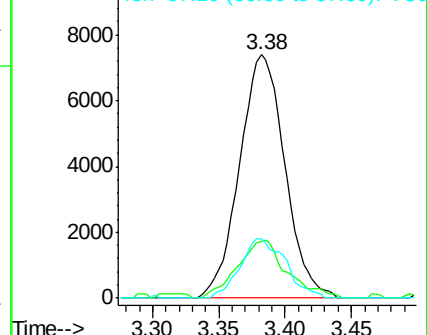
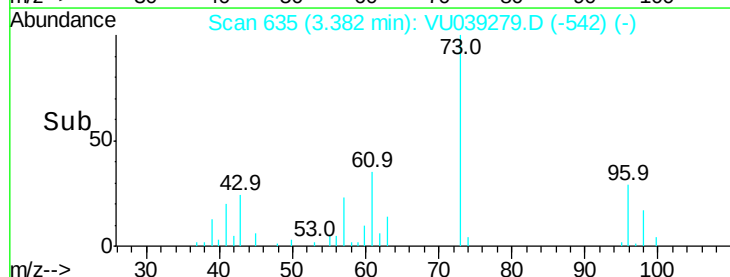
57 24.4 18.6 27.8

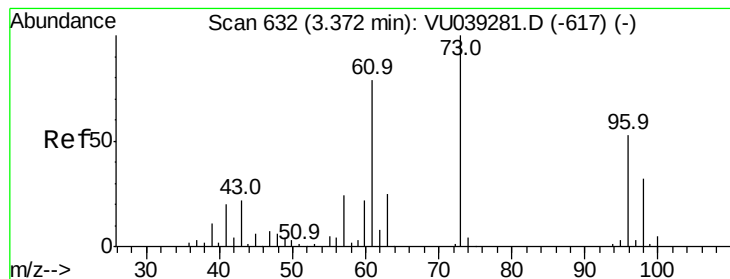


Abundance Ion 73.10 (72.80 to 73.80): VU039279.D (-542) (-)

Ion 43.05 (42.75 to 43.75): VU039279.D (-542) (-)

Ion 57.10 (56.80 to 57.80): VU039279.D (-542) (-)





#18

trans-1,2-Dichloroethene

Concen: 0.421 ug/L

RT: 3.37 min Scan# 631

Delta R.T. -0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.504

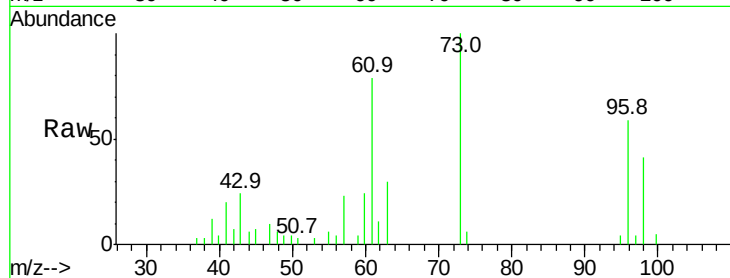
Tgt Ion: 96 Resp: 5622

Ion Ratio Lower Upper

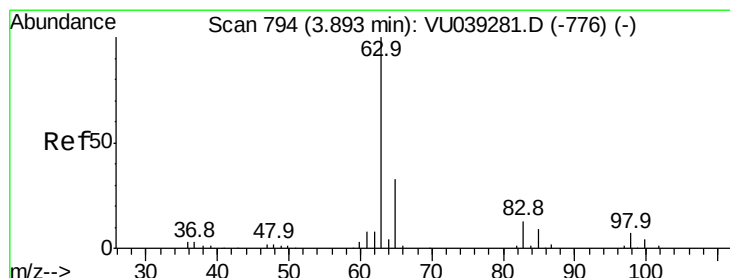
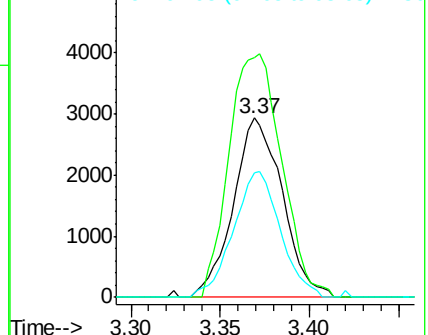
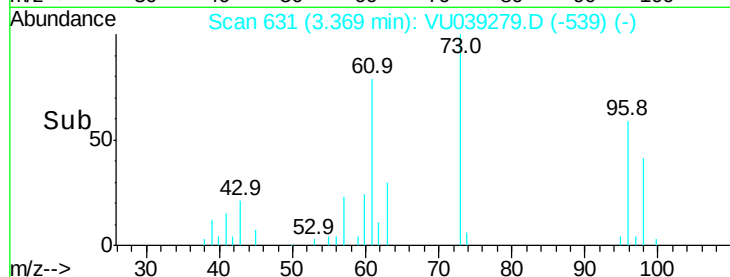
96 100

61 133.9 104.7 194.5

98 69.2 43.1 80.1



Abundance Ion 96.00 (95.70 to 96.70): VU039279.D (-539) (-)



#19

1,1-Dichloroethane

Concen: 0.442 ug/L

RT: 3.89 min Scan# 794

Delta R.T. 0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

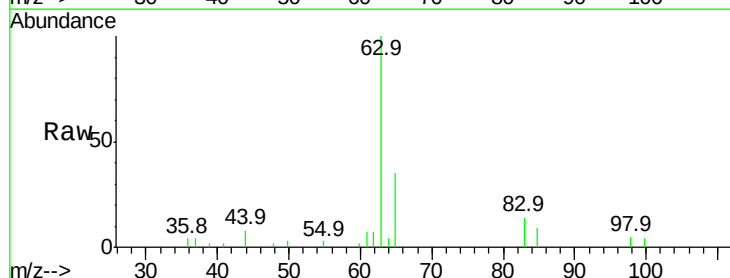
Tgt Ion: 63 Resp: 11931

Ion Ratio Lower Upper

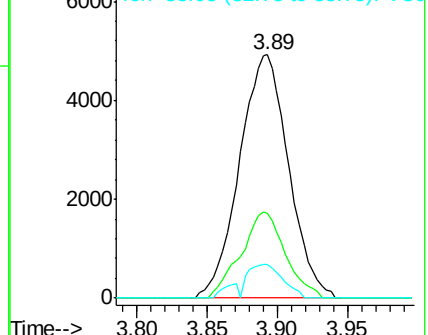
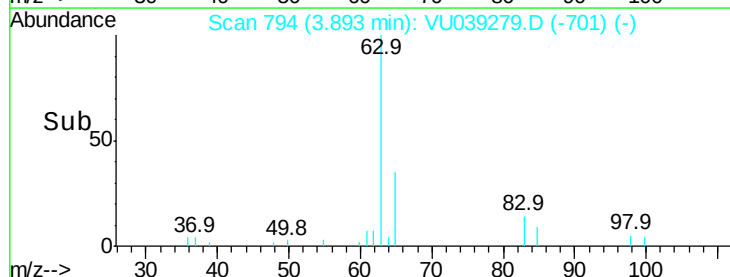
63 100

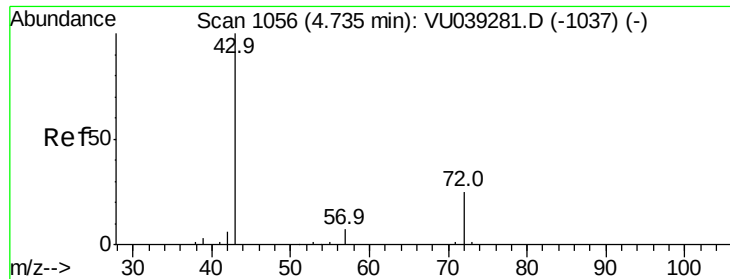
65 34.9 22.7 42.3

83 13.8 9.1 16.9



Abundance Ion 63.10 (62.80 to 63.80): VU039279.D (-701) (-)





#21

2-Butanone

Concen: 4.935 ug/L

RT: 4.74 min Scan# 1057

Delta R.T. 0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

Instrument :

MSVOA\_U

ClientSampleId :

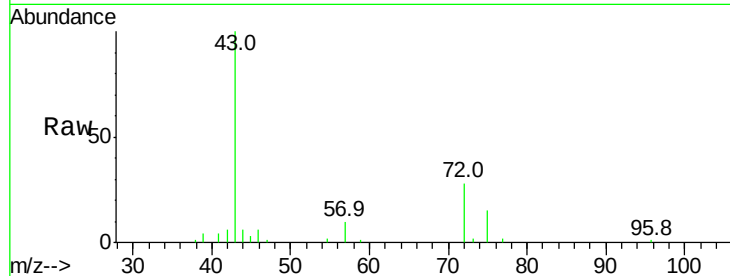
VSTD0.504

Tgt Ion: 43 Resp: 23454

Ion Ratio Lower Upper

43 100

72 25.6 12.8 38.3



Abundance Ion 43.05 (42.75 to 43.75): VU039279.D (-963) (-)

Ion 72.10 (71.80 to 72.80): VU039279.D (-963) (-)

4.74

8000

6000

4000

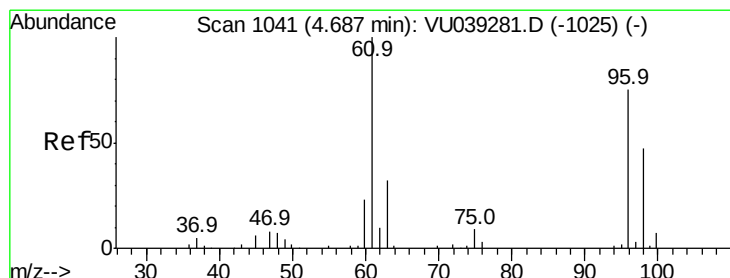
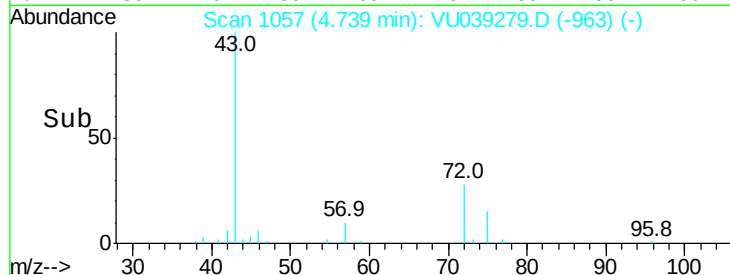
2000

0

4.70

4.80

Time-->



#22

cis-1,2-Dichloroethene

Concen: 0.494 ug/L

RT: 4.69 min Scan# 1041

Delta R.T. 0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

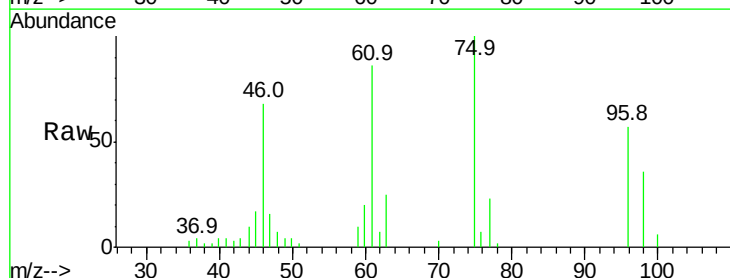
Tgt Ion: 96 Resp: 6795

Ion Ratio Lower Upper

96 100

61 151.5 93.7 173.9

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU039279.D (-948) (-)

Ion 61.05 (60.75 to 61.75): VU039279.D (-948) (-)

Ion 68.15 (67.85 to 68.85): VU039279.D (-948) (-)

4.69

6000

5000

4000

3000

2000

1000

0

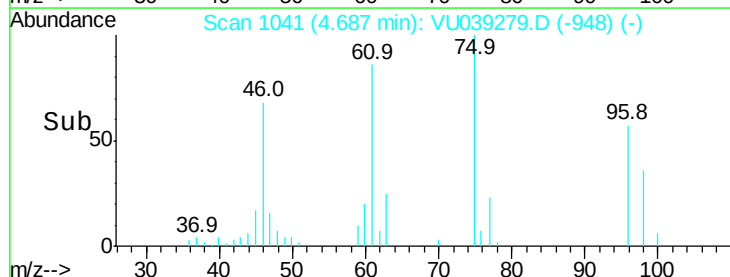
4.60

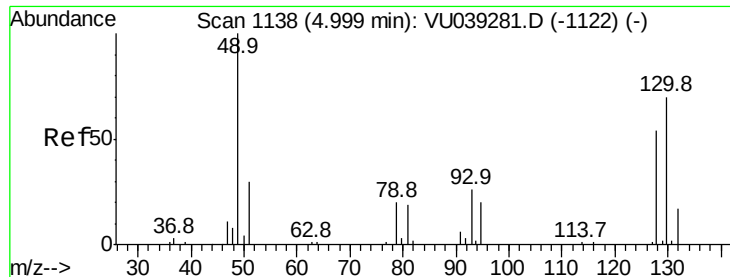
4.65

4.70

4.75

Time-->

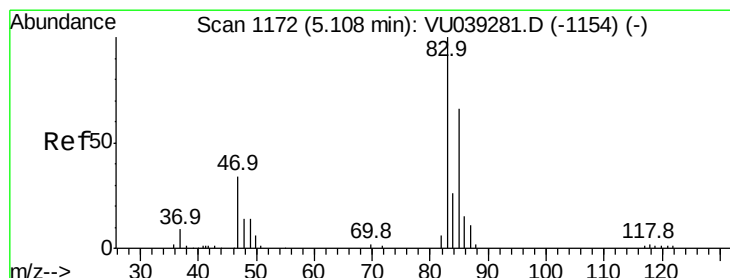
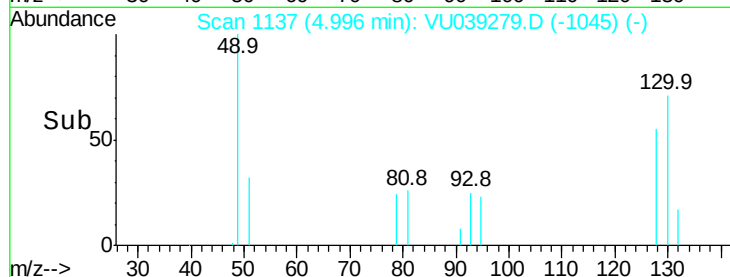
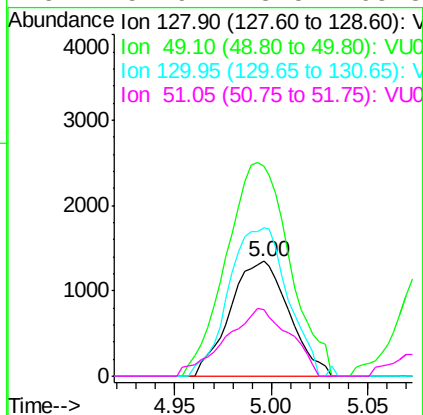
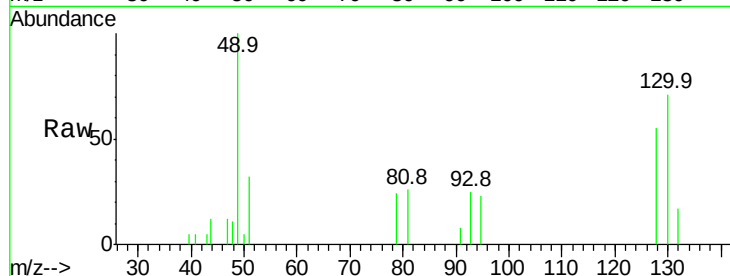




#23  
 Bromochloromethane  
 Concen: 0.427 ug/L  
 RT: 5.00 min Scan# 1137  
 Delta R.T. -0.00 min  
 Lab File: VU039279.D  
 Acq: 06 Jul 2020 09:31

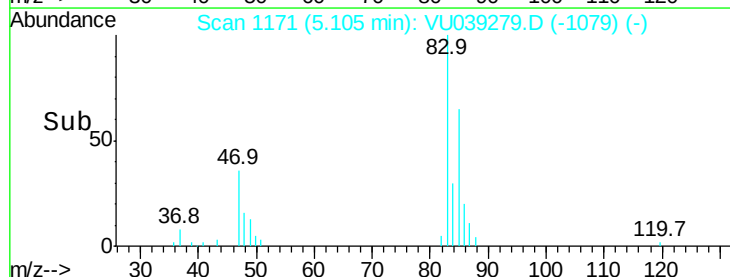
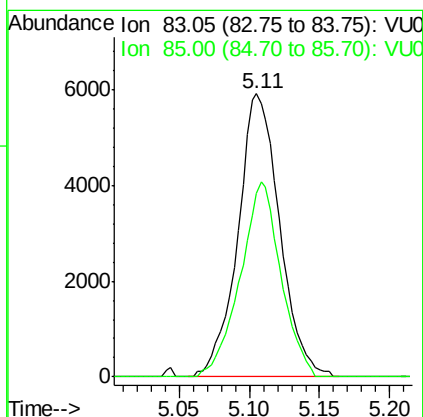
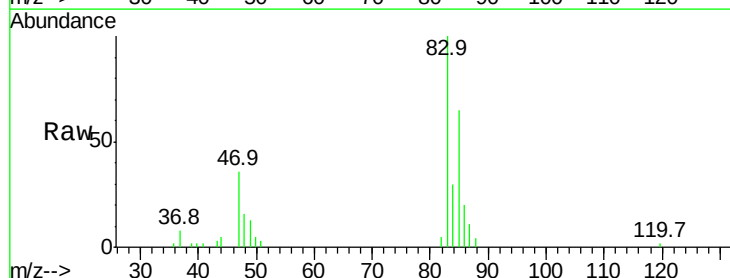
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.504

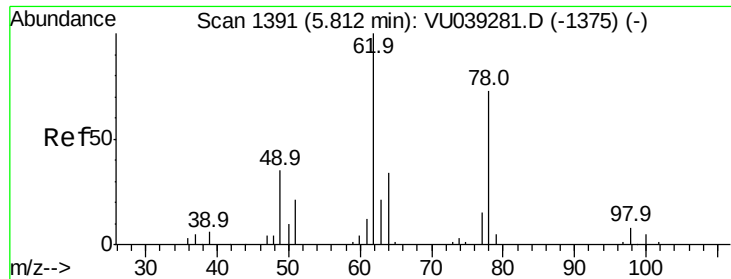
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 2858  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 49       | 182.7 | 128.7 | 238.9 |
| 130      | 129.7 | 89.7  | 166.5 |
| 51       | 57.9  | 43.5  | 65.3  |



#25  
 Chloroform  
 Concen: 0.440 ug/L  
 RT: 5.11 min Scan# 1171  
 Delta R.T. -0.00 min  
 Lab File: VU039279.D  
 Acq: 06 Jul 2020 09:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 12284 |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 64.8  | 46.3  | 86.1  |

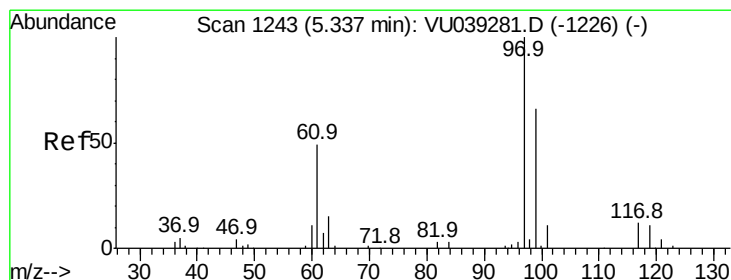
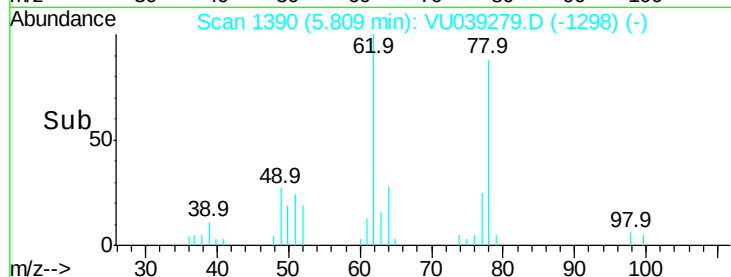
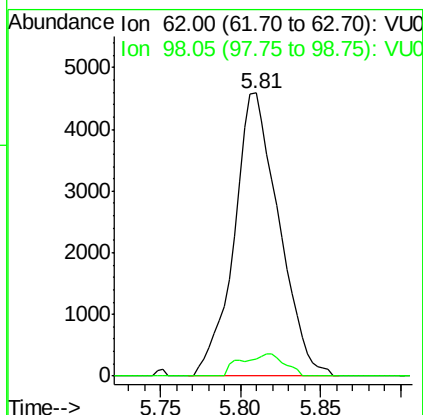
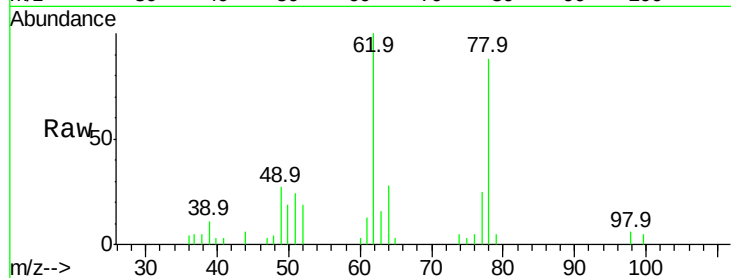




#27  
 1,2-Dichloroethane  
 Concen: 0.446 ug/L  
 RT: 5.81 min Scan# 1390  
 Delta R.T. -0.00 min  
 Lab File: VU039279.D  
 Acq: 06 Jul 2020 09:31

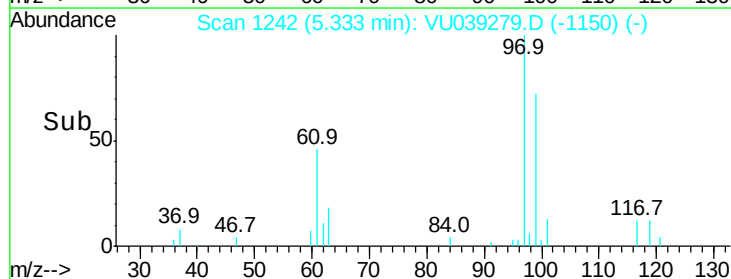
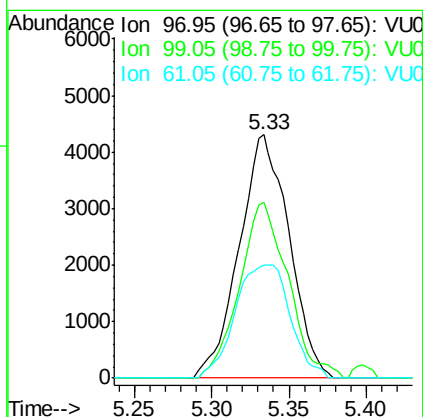
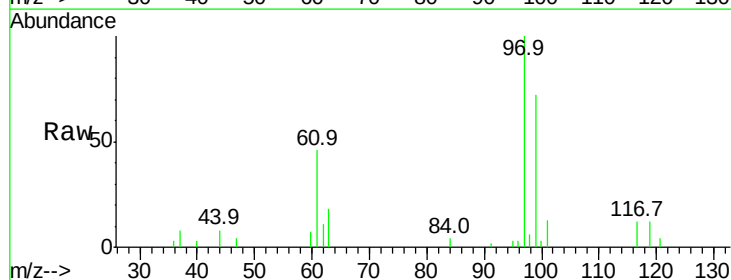
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.504

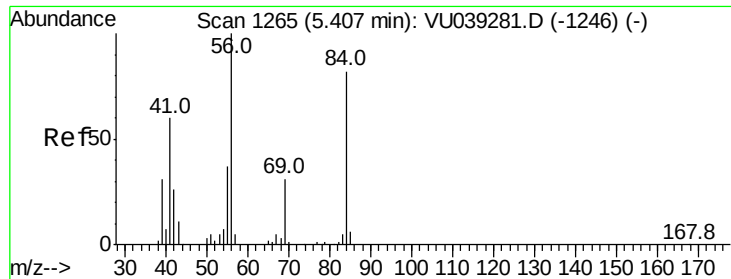
Tgt Ion: 62 Resp: 8766  
 Ion Ratio Lower Upper  
 62 100  
 98 6.3 6.2 9.4



#29  
 1,1,1-Trichloroethane  
 Concen: 0.468 ug/L  
 RT: 5.33 min Scan# 1242  
 Delta R.T. -0.00 min  
 Lab File: VU039279.D  
 Acq: 06 Jul 2020 09:31

Tgt Ion: 97 Resp: 9655  
 Ion Ratio Lower Upper  
 97 100  
 99 70.2 51.1 76.7  
 61 51.1 37.9 56.9

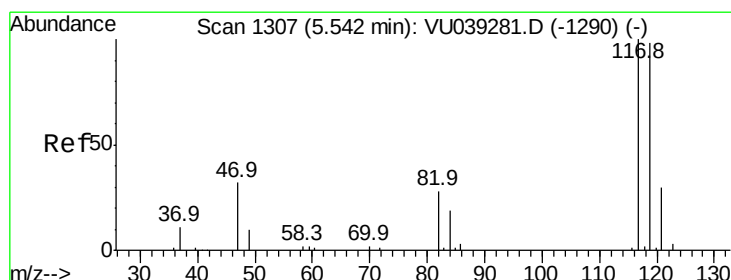
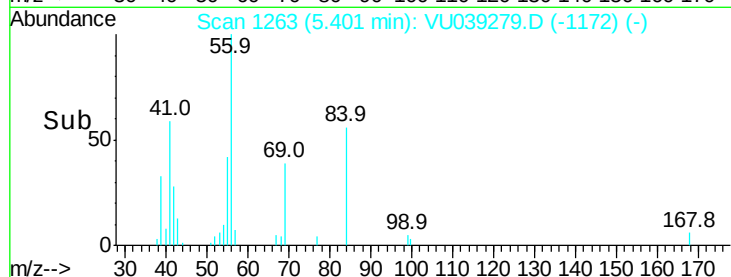
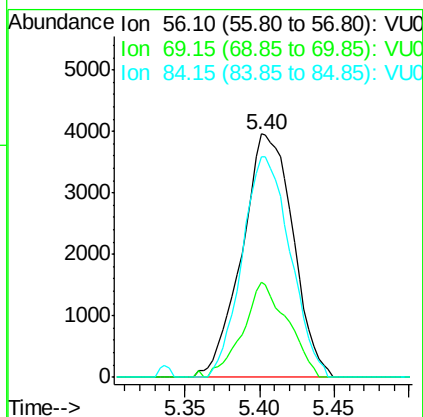
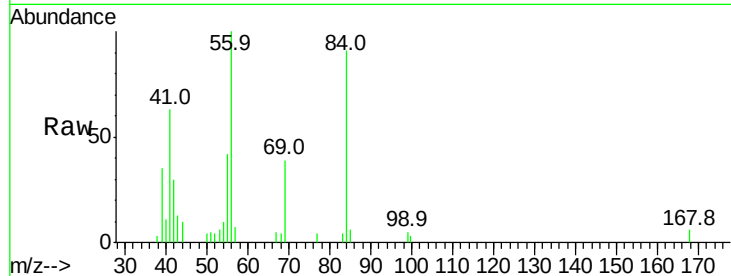




#30  
Cyclohexane  
Concen: 0.509 ug/L  
RT: 5.40 min Scan# 1263  
Delta R.T. -0.01 min  
Lab File: VU039279.D  
Acq: 06 Jul 2020 09:31

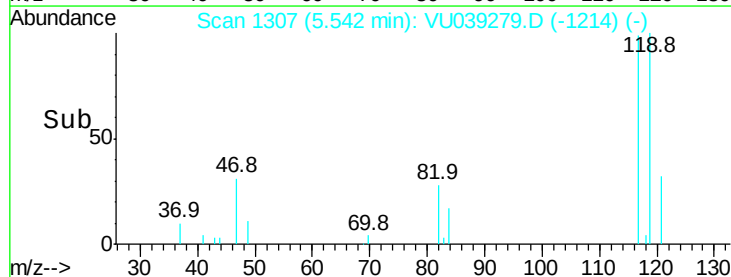
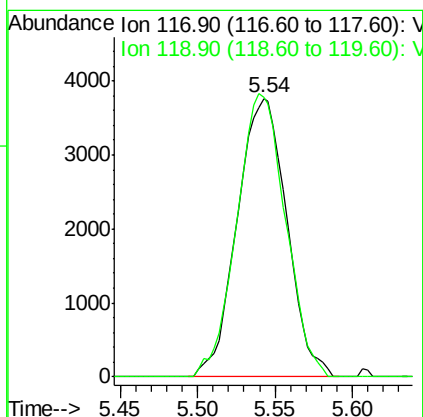
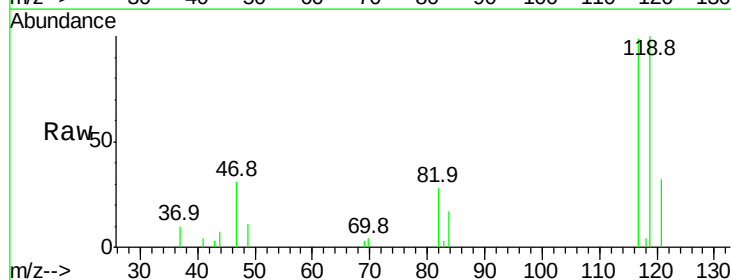
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.504

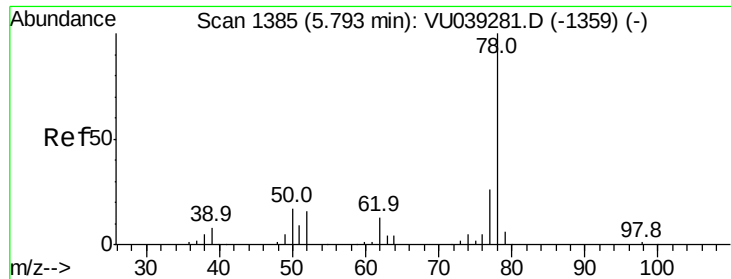
Tgt Ion: 56 Resp: 9391  
Ion Ratio Lower Upper  
56 100  
69 34.1 24.2 36.4  
84 85.4 67.0 100.4



#31  
Carbon tetrachloride  
Concen: 0.488 ug/L  
RT: 5.54 min Scan# 1307  
Delta R.T. 0.00 min  
Lab File: VU039279.D  
Acq: 06 Jul 2020 09:31

Tgt Ion: 117 Resp: 8380  
Ion Ratio Lower Upper  
117 100  
119 100.0 76.8 115.2





#33

Benzene

Concen: 0.539 ug/L

RT: 5.79 min Scan# 1384

Delta R.T. -0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

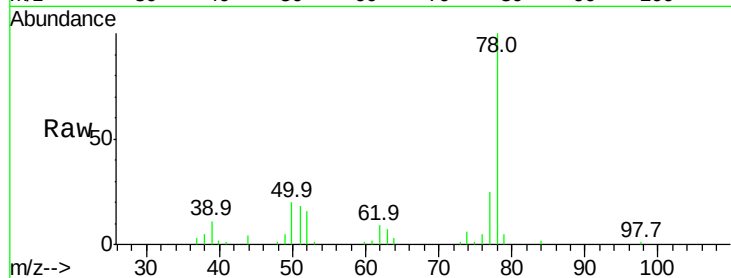
Instrument :

MSVOA\_U

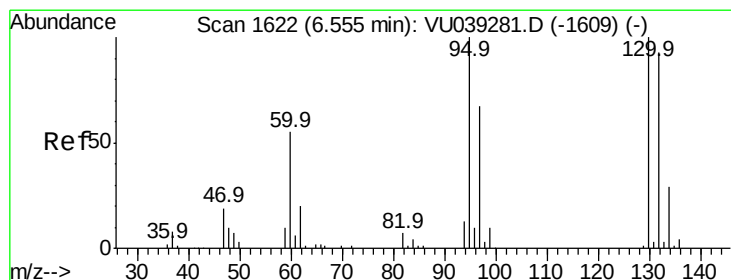
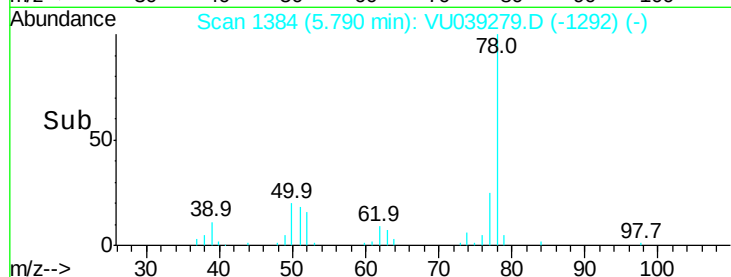
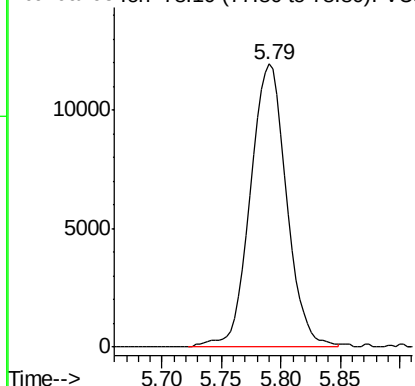
ClientSampleId :

VSTD0.504

Tgt Ion: 78 Resp: 25244



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 0.507 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

Tgt Ion: 95 Resp: 6136

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 66.9  | 47.0  | 87.2  |
| 132 | 91.0  | 65.0  | 120.8 |
| 130 | 100.7 | 69.8  | 129.6 |

95 100

97 66.9 47.0 87.2

132 91.0 65.0 120.8

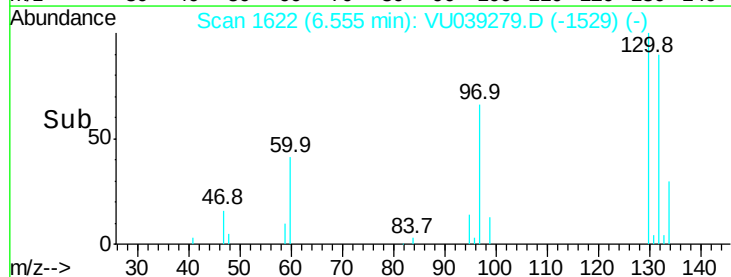
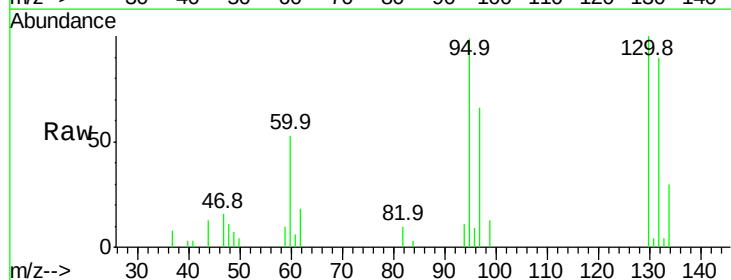
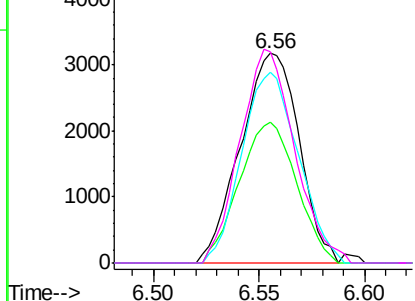
130 100.7 69.8 129.6

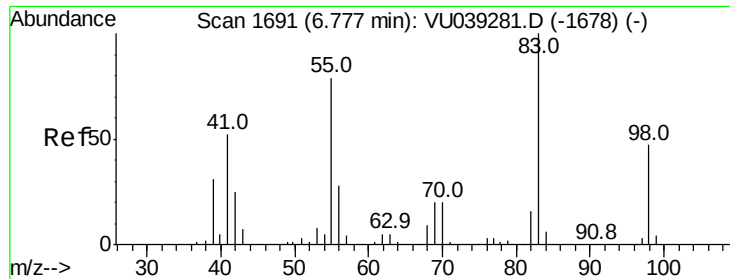
Abundance Ion 95.00 (94.70 to 95.70): VU0

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

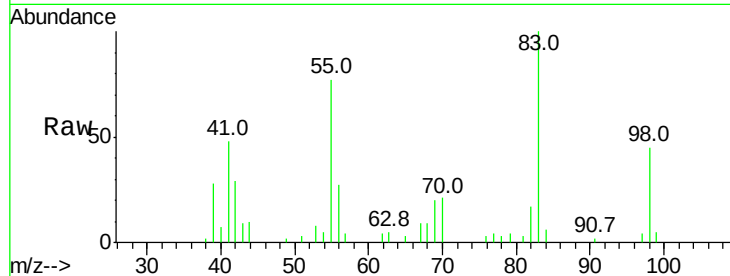




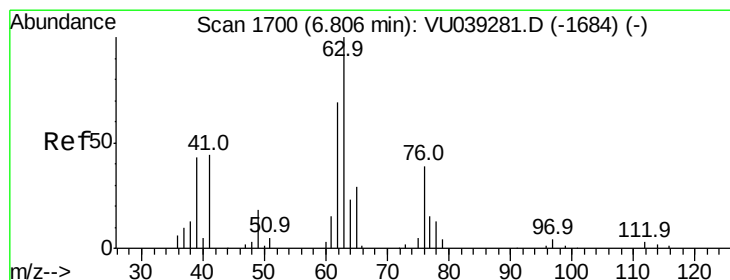
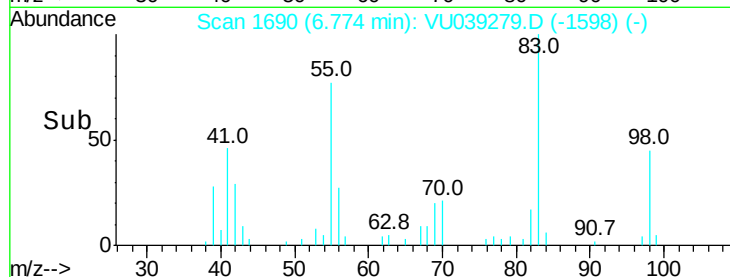
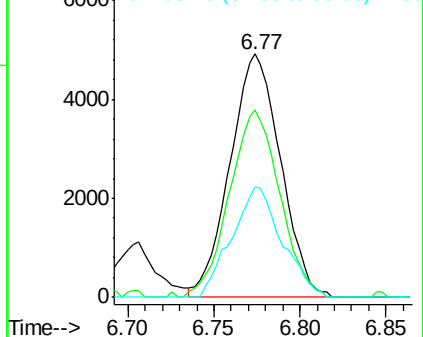
#35  
Methylcyclohexane  
Concen: 0.560 ug/L  
RT: 6.77 min Scan# 1690  
Delta R.T. -0.00 min  
Lab File: VU039279.D  
Acq: 06 Jul 2020 09:31

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD0.504

Tgt Ion: 83 Resp: 10032  
Ion Ratio Lower Upper  
83 100  
55 76.7 63.3 94.9  
98 45.0 37.4 56.2

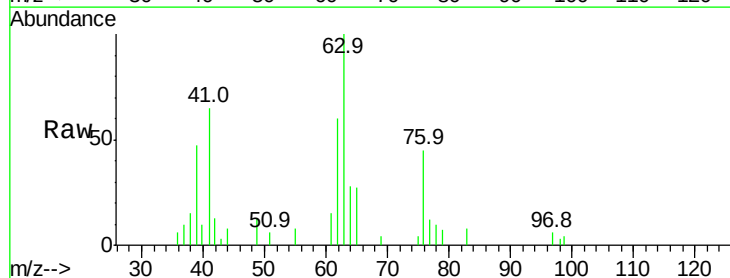


Abundance Ion 83.15 (82.85 to 83.85): VU0  
Ion 55.10 (54.80 to 55.80): VU0  
Ion 98.15 (97.85 to 98.85): VU0

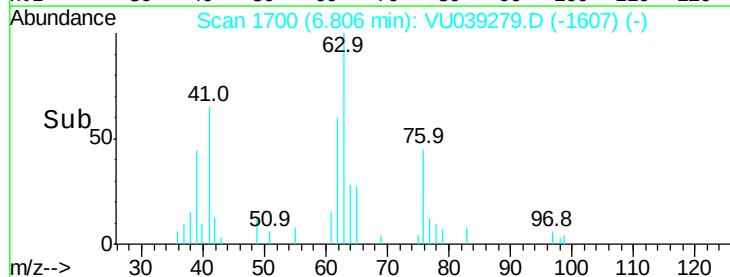
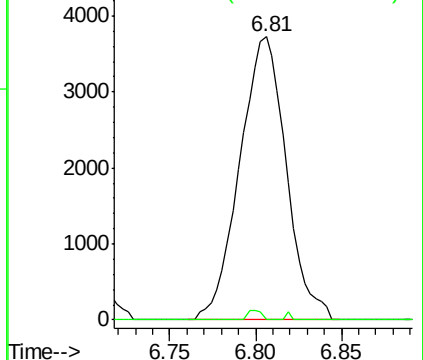


#37  
1,2-Dichloropropane  
Concen: 0.565 ug/L  
RT: 6.81 min Scan# 1700  
Delta R.T. 0.00 min  
Lab File: VU039279.D  
Acq: 06 Jul 2020 09:31

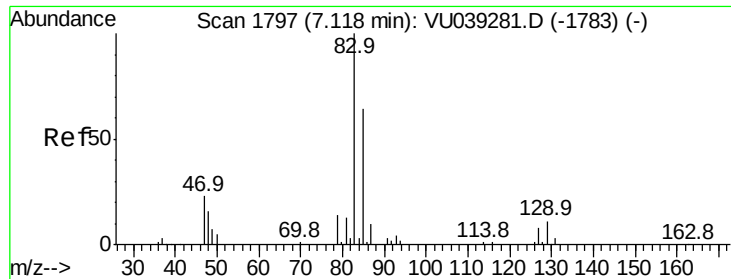
Tgt Ion: 63 Resp: 6990  
Ion Ratio Lower Upper  
63 100  
112 1.0 2.6 3.8#



Abundance Ion 63.10 (62.80 to 63.80): VU0  
Ion 112.10 (111.80 to 112.80): V







#38

Bromodichloromethane

Concen: 0.554 ug/L

RT: 7.12 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.504

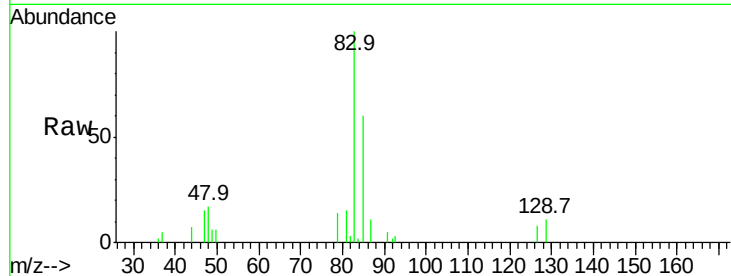
Tgt Ion: 83 Resp: 9316

Ion Ratio Lower Upper

83 100

85 59.7 44.5 82.7

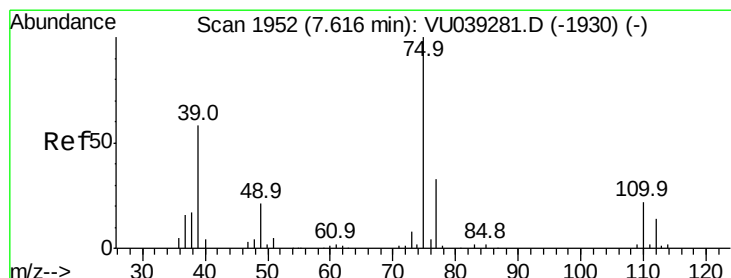
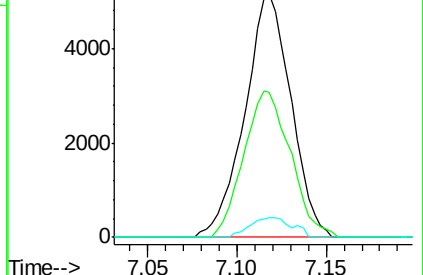
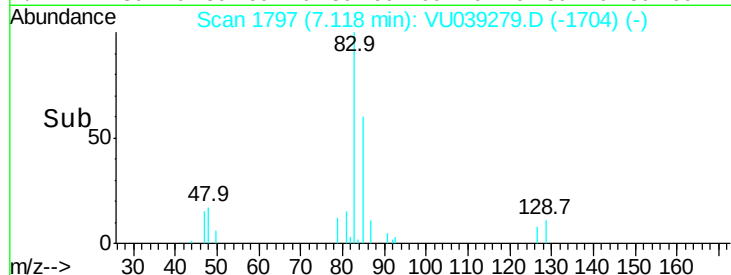
127 7.8 6.5 9.7



Abundance Ion 82.95 (82.65 to 83.65): VU039279.D (-1704) (-)

Ion 85.00 (84.70 to 85.70): VU039279.D (-1704) (-)

Ion 126.90 (126.60 to 127.60): VU039279.D (-1704) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.554 ug/L

RT: 7.62 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VU039279.D

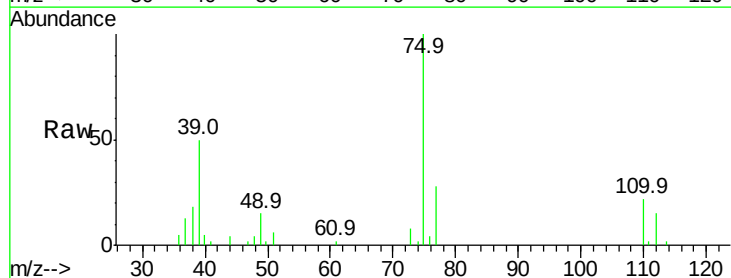
Acq: 06 Jul 2020 09:31

Tgt Ion: 75 Resp: 10724

Ion Ratio Lower Upper

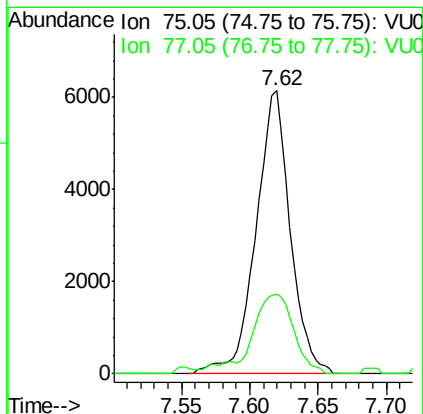
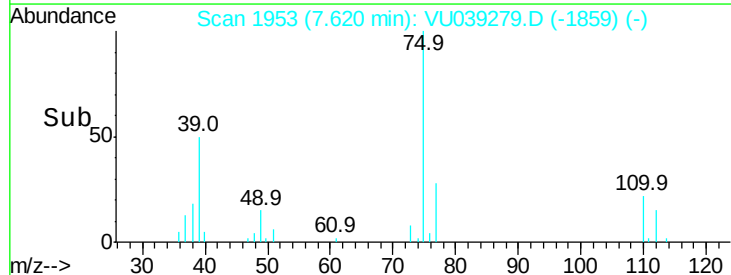
75 100

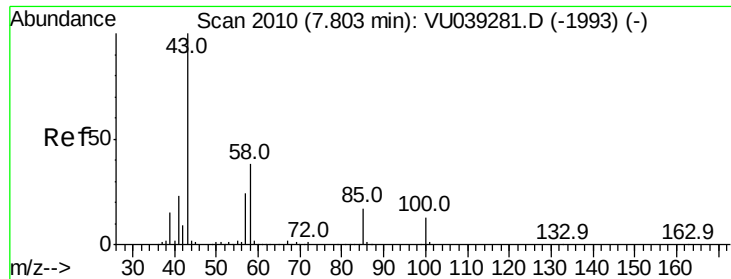
77 28.3 23.3 43.3



Abundance Ion 75.05 (74.75 to 75.75): VU039279.D (-1859) (-)

Ion 77.05 (76.75 to 77.75): VU039279.D (-1859) (-)

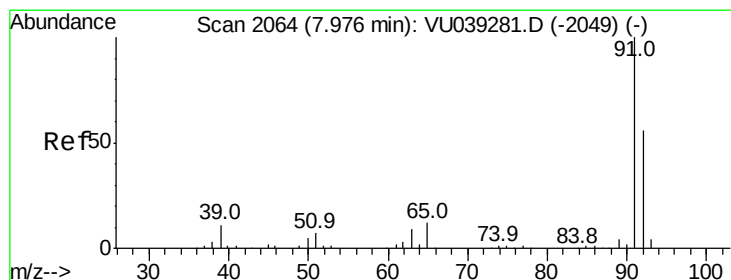
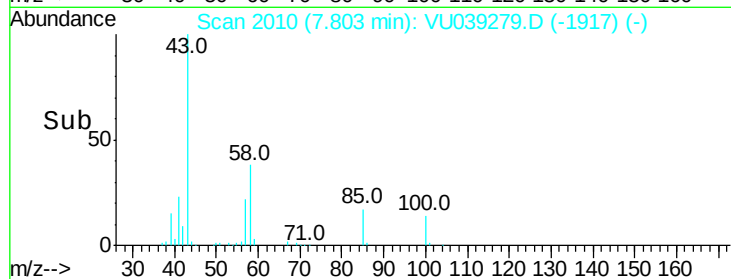
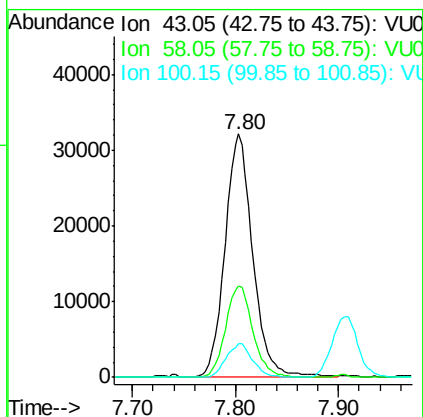
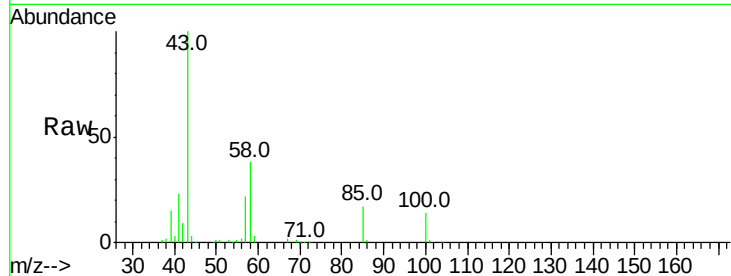




#40  
 4-Methyl-2-pentanone  
 Concen: 5.981 ug/L  
 RT: 7.80 min Scan# 2010  
 Delta R.T. 0.00 min  
 Lab File: VU039279.D  
 Acq: 06 Jul 2020 09:31

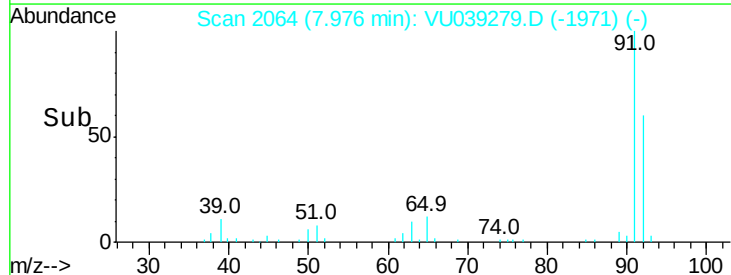
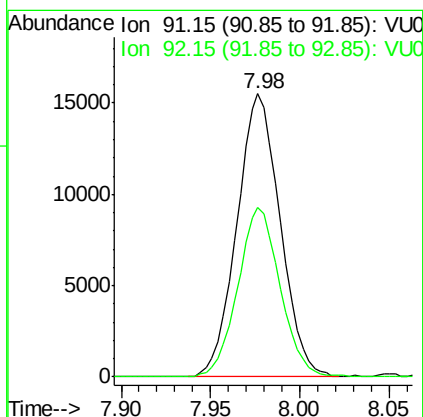
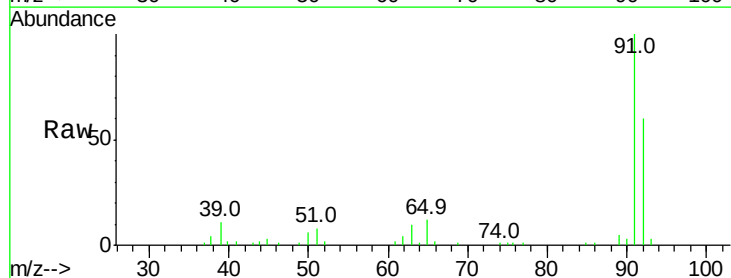
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.504

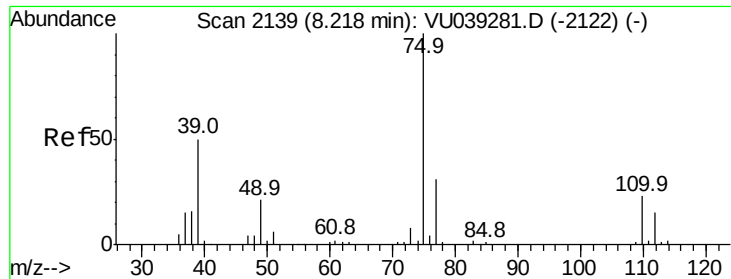
Tgt Ion: 43 Resp: 60403  
 Ion Ratio Lower Upper  
 43 100  
 58 36.8 30.3 45.5  
 100 13.2 10.6 15.8



#42  
 Toluene  
 Concen: 0.497 ug/L  
 RT: 7.98 min Scan# 2064  
 Delta R.T. 0.00 min  
 Lab File: VU039279.D  
 Acq: 06 Jul 2020 09:31

Tgt Ion: 91 Resp: 26137  
 Ion Ratio Lower Upper  
 91 100  
 92 60.0 39.3 72.9

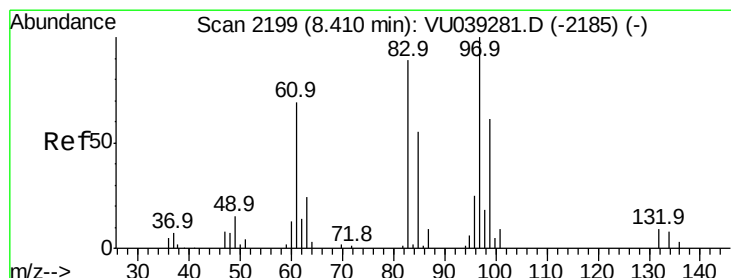
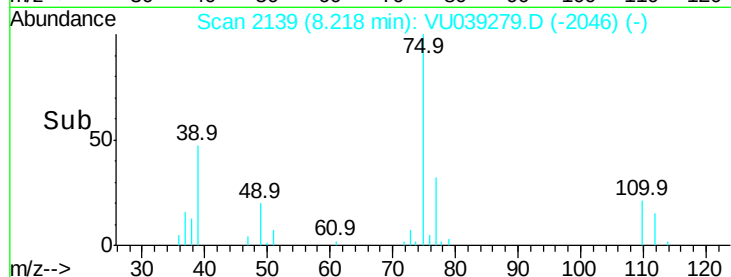
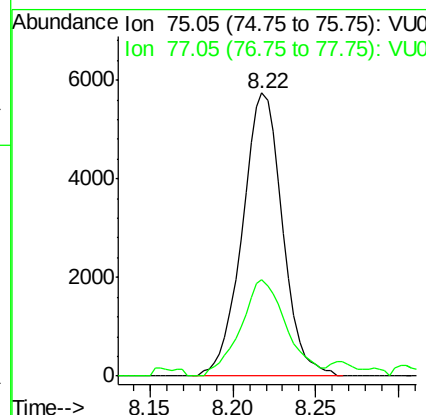
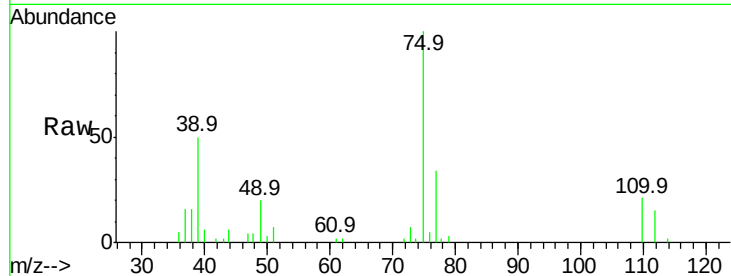




#44  
 trans-1,3-Dichloropropene  
 Concen: 0.507 ug/L  
 RT: 8.22 min Scan# 2139  
 Delta R.T. 0.00 min  
 Lab File: VU039279.D  
 Acq: 06 Jul 2020 09:31

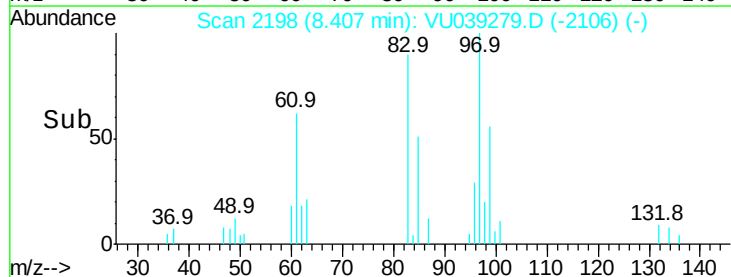
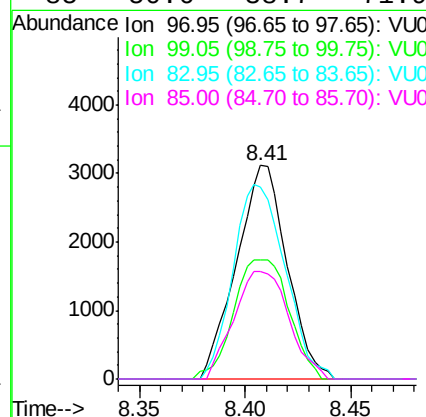
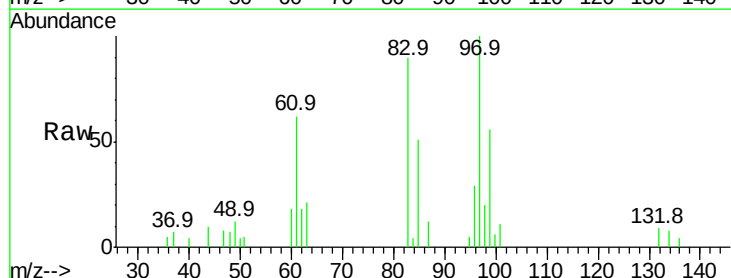
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.504

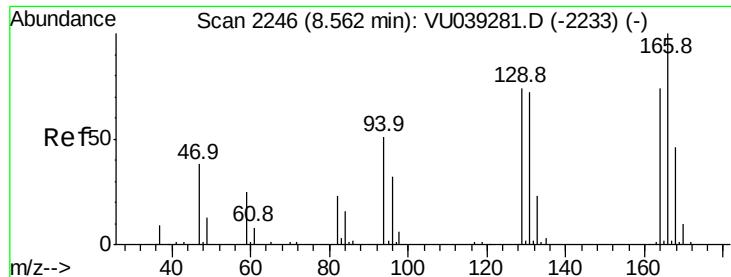
Tgt Ion: 75 Resp: 9659  
 Ion Ratio Lower Upper  
 75 100  
 77 34.1 22.0 40.8



#45  
 1,1,2-Trichloroethane  
 Concen: 0.501 ug/L  
 RT: 8.41 min Scan# 2198  
 Delta R.T. -0.00 min  
 Lab File: VU039279.D  
 Acq: 06 Jul 2020 09:31

Tgt Ion: 97 Resp: 5186  
 Ion Ratio Lower Upper  
 97 100  
 99 55.9 42.5 78.9  
 83 90.2 62.2 115.4  
 85 50.6 38.7 71.9





#47

Tetrachloroethene

Concen: 0.458 ug/L

RT: 8.56 min Scan# 2245

Delta R.T. -0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.504

Tgt Ion:164 Resp: 4131

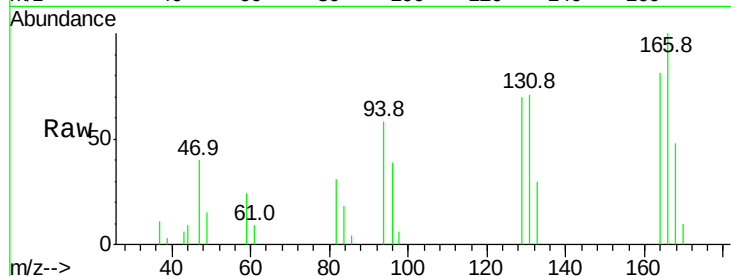
Ion Ratio Lower Upper

164 100

129 86.9 70.5 130.9

131 88.6 68.7 127.5

166 124.2 94.9 176.3

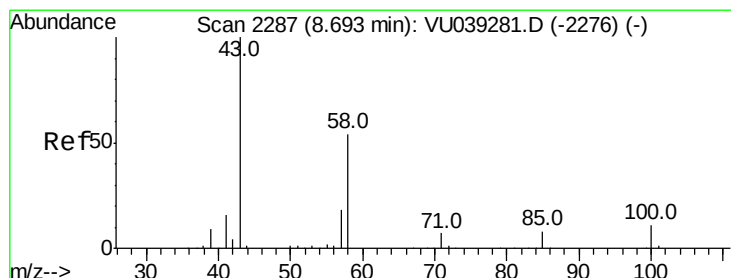
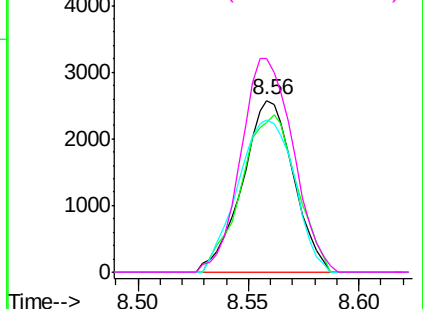
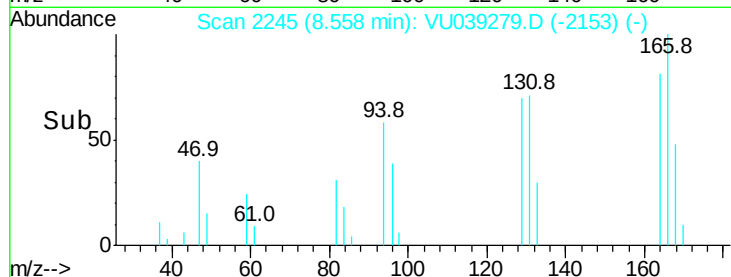


Abundance Ion 163.90 (163.60 to 164.60): V

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: 5.305 ug/L

RT: 8.69 min Scan# 2287

Delta R.T. 0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

Tgt Ion: 43 Resp: 43637

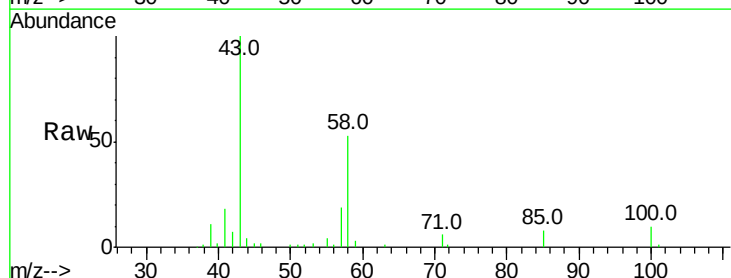
Ion Ratio Lower Upper

43 100

58 51.9 43.1 64.7

57 18.5 14.4 21.6

100 10.4 8.3 12.5

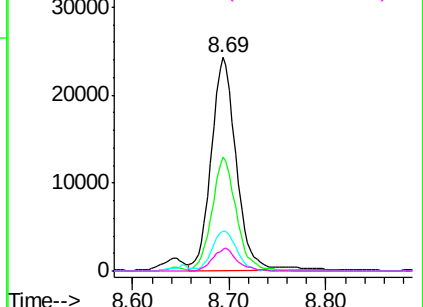
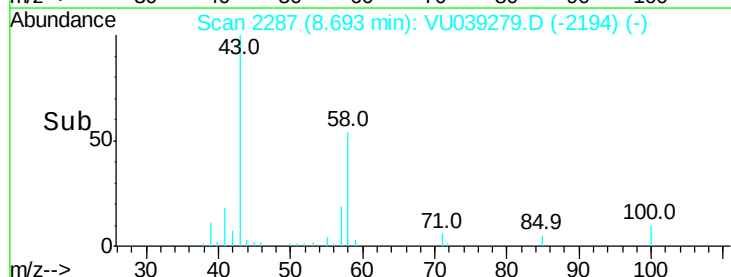


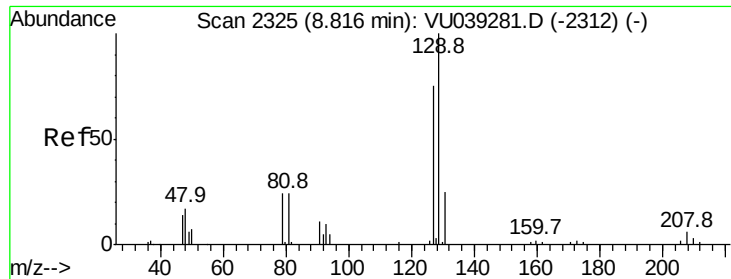
Abundance Ion 43.05 (42.75 to 43.75): VU0

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

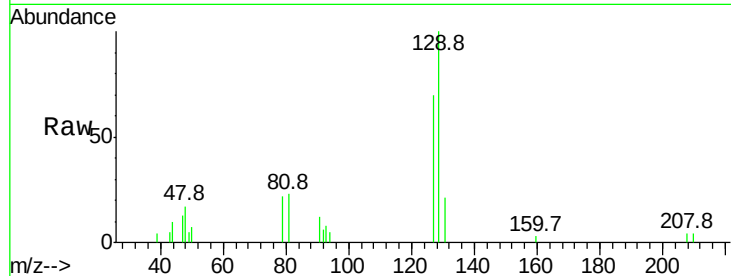




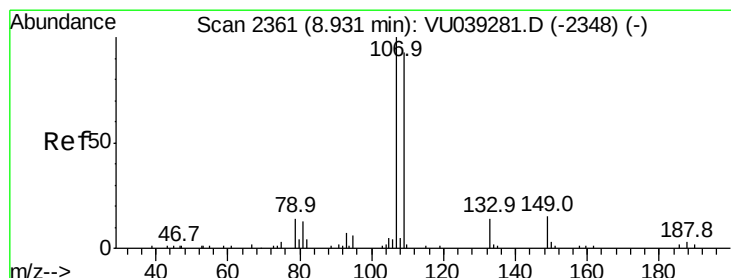
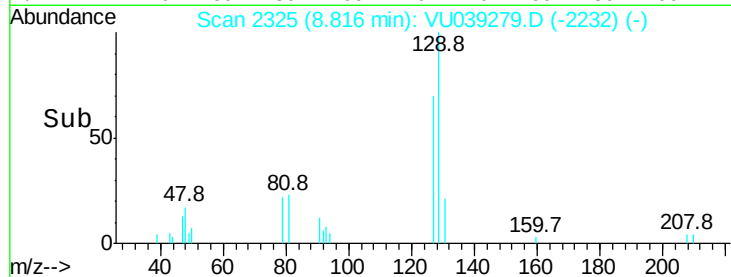
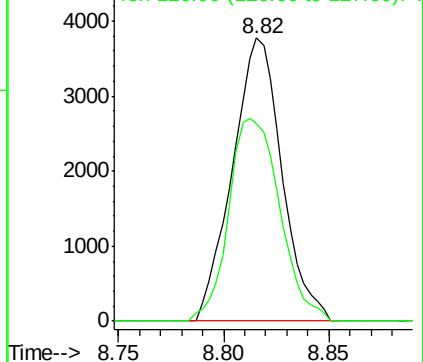
#49  
 Dibromochloromethane  
 Concen: 0.530 ug/L  
 RT: 8.82 min Scan# 2325  
 Delta R.T. 0.00 min  
 Lab File: VU039279.D  
 Acq: 06 Jul 2020 09:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.504

Tgt Ion:129 Resp: 6157  
 Ion Ratio Lower Upper  
 129 100  
 127 69.9 52.6 97.8

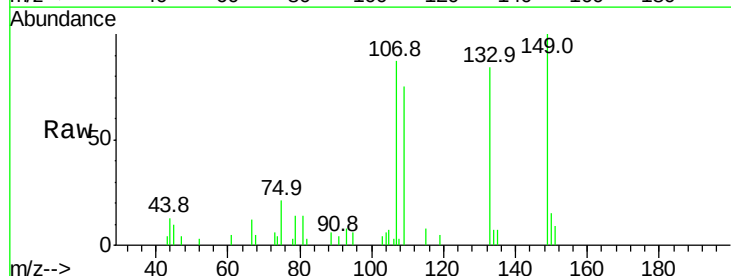


Abundance Ion 128.95 (128.65 to 129.65): V  
 Ion 126.90 (126.60 to 127.60): V

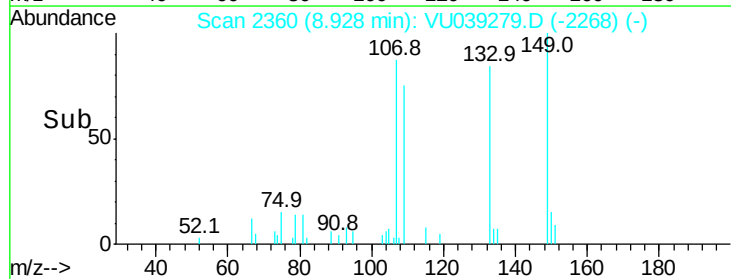
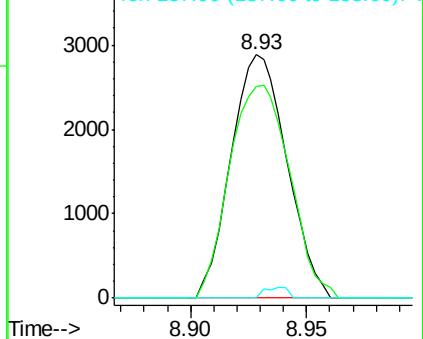


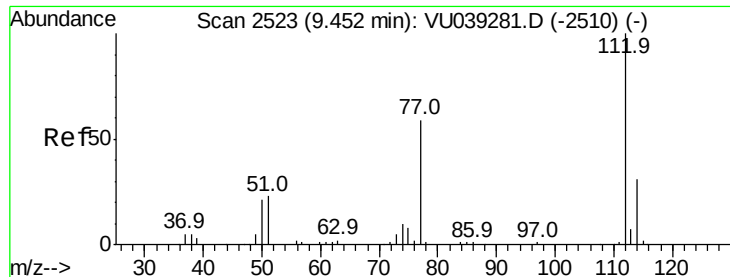
#50  
 1,2-Dibromoethane  
 Concen: 0.492 ug/L  
 RT: 8.93 min Scan# 2360  
 Delta R.T. -0.00 min  
 Lab File: VU039279.D  
 Acq: 06 Jul 2020 09:31

Tgt Ion:107 Resp: 4829  
 Ion Ratio Lower Upper  
 107 100  
 109 86.8 64.8 120.4  
 188 0.0 2.7 4.1#



Abundance Ion 106.95 (106.65 to 107.65): V  
 Ion 109.00 (108.70 to 109.70): V  
 Ion 187.90 (187.60 to 188.60): V





#51

Chlorobenzene

Concen: 0.471 ug/L

RT: 9.45 min Scan# 2522

Delta R.T. -0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.504

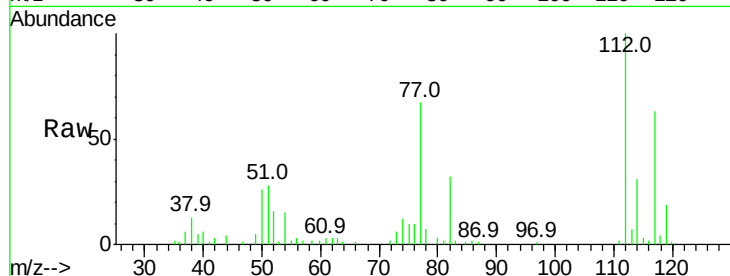
Tgt Ion: 112 Resp: 15744

Ion Ratio Lower Upper

112 100

114 30.7 21.9 40.7

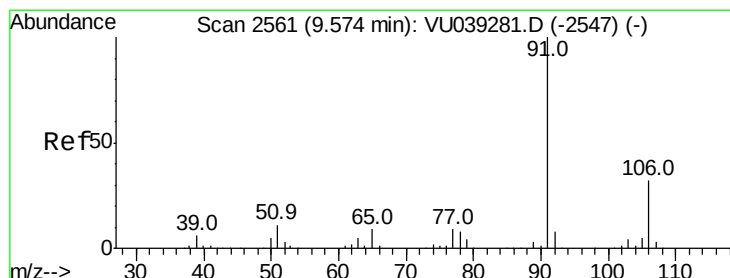
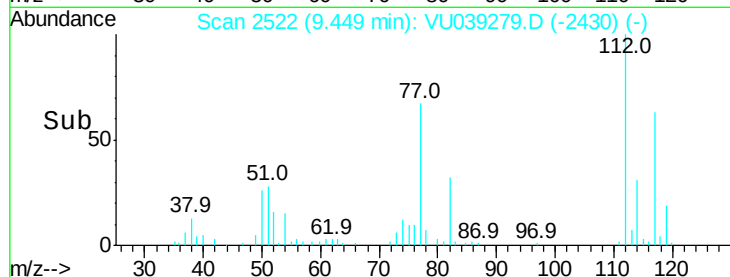
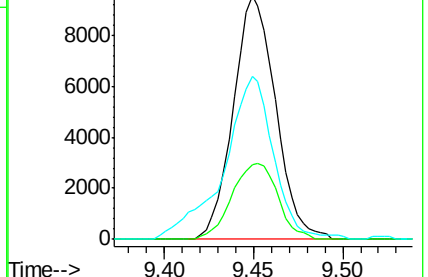
77 66.9 48.2 72.4



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): V



#52

Ethylbenzene

Concen: 0.490 ug/L

RT: 9.57 min Scan# 2561

Delta R.T. 0.00 min

Lab File: VU039279.D

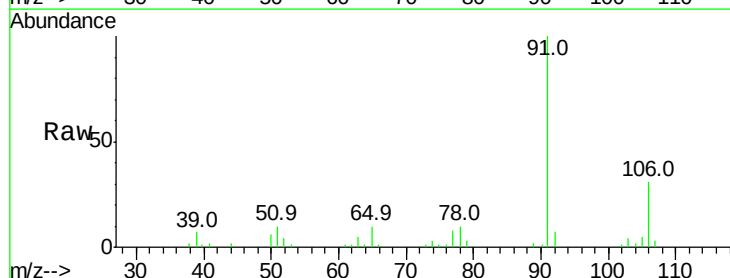
Acq: 06 Jul 2020 09:31

Tgt Ion: 91 Resp: 27649

Ion Ratio Lower Upper

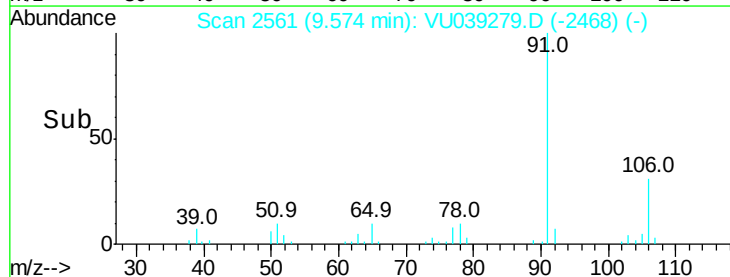
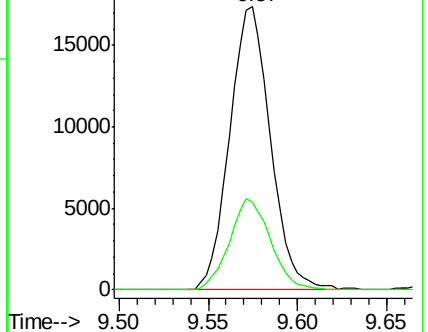
91 100

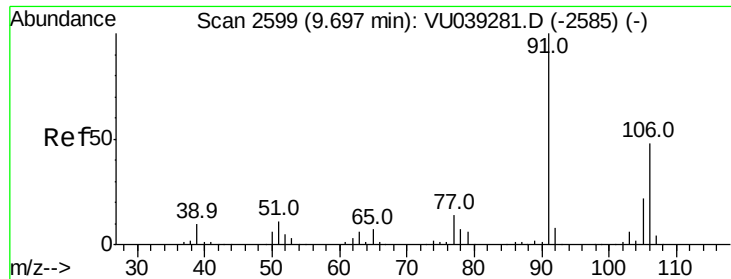
106 31.1 22.1 41.1



Abundance Ion 91.15 (90.85 to 91.85): V

Ion 106.15 (105.85 to 106.85): V





#53

m,p-Xylene

Concen: 0.494 ug/L

RT: 9.69 min Scan# 2598

Delta R.T. -0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

Instrument :

MSVOA\_U

ClientSampleId :

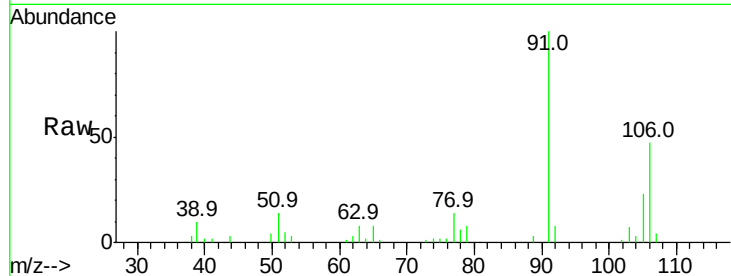
VSTD0.504

Tgt Ion:106 Resp: 10189

Ion Ratio Lower Upper

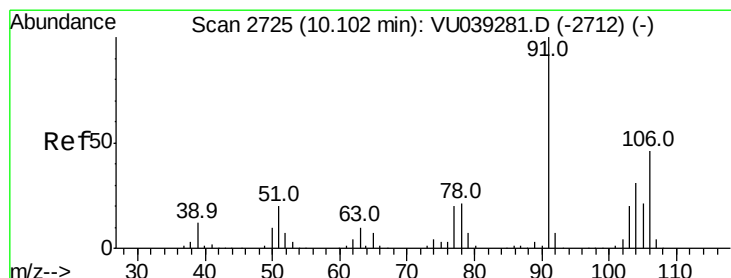
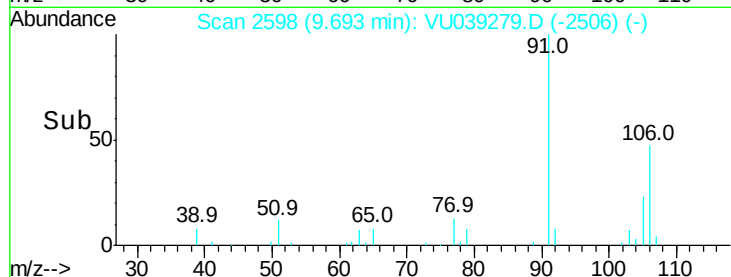
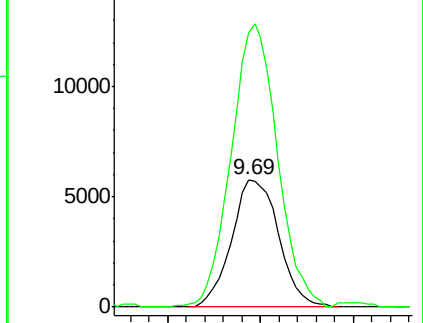
106 100

91 214.7 146.6 272.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#54

o-Xylene

Concen: 0.509 ug/L

RT: 10.10 min Scan# 2725

Delta R.T. 0.00 min

Lab File: VU039279.D

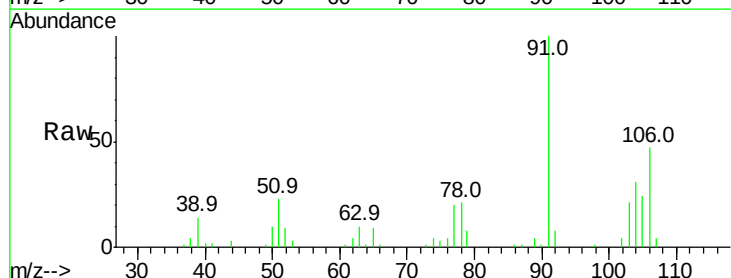
Acq: 06 Jul 2020 09:31

Tgt Ion:106 Resp: 10094

Ion Ratio Lower Upper

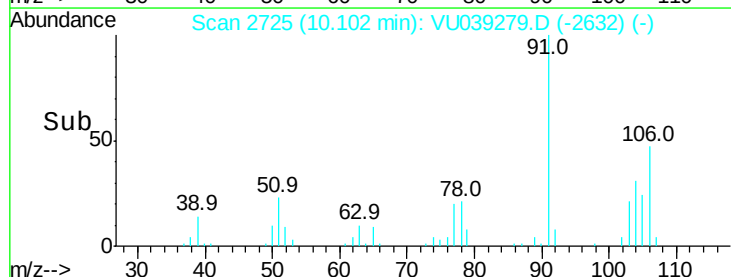
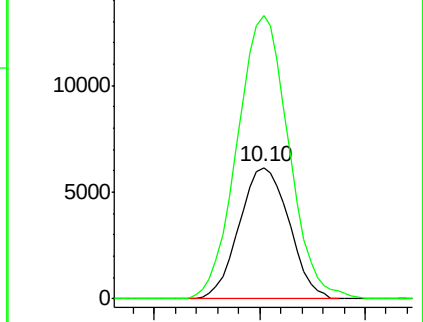
106 100

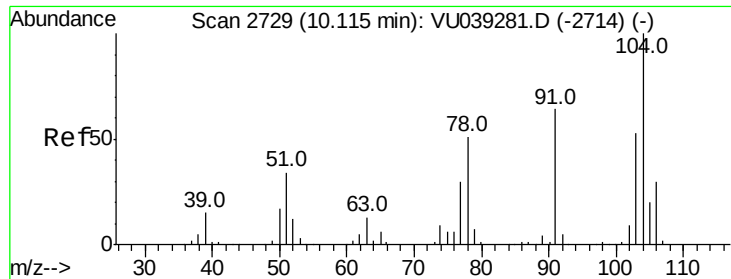
91 215.0 153.6 285.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0





#55

Styrene

Concen: 0.525 ug/L

RT: 10.11 min Scan# 2729

Delta R.T. 0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

Instrument :

MSVOA\_U

ClientSampleId :

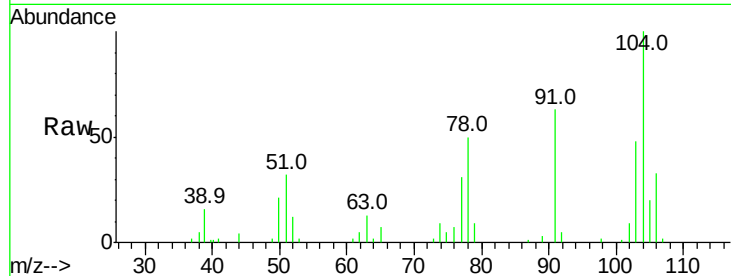
VSTD0.504

Tgt Ion:104 Resp: 18351

Ion Ratio Lower Upper

104 100

78 50.0 35.5 65.9



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0

10.11

12000

10000

8000

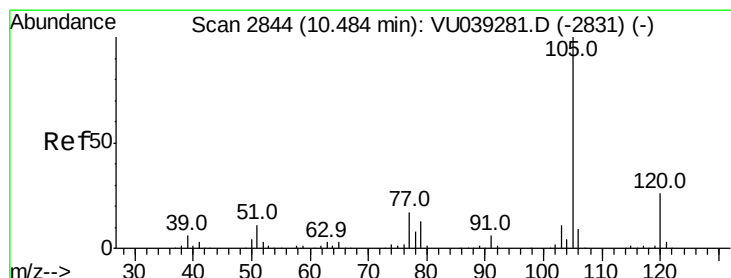
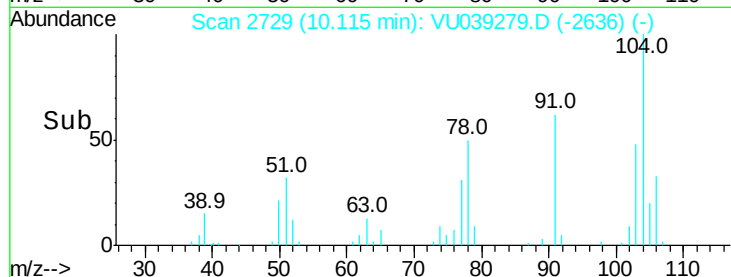
6000

4000

2000

0

Time-->



#56

Isopropylbenzene

Concen: 0.535 ug/L

RT: 10.48 min Scan# 2844

Delta R.T. 0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

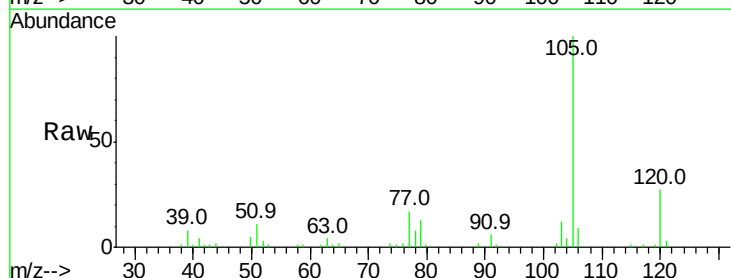
Tgt Ion:105 Resp: 28190

Ion Ratio Lower Upper

105 100

120 25.5 21.1 31.7

77 16.5 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): VU0

10.48

20000

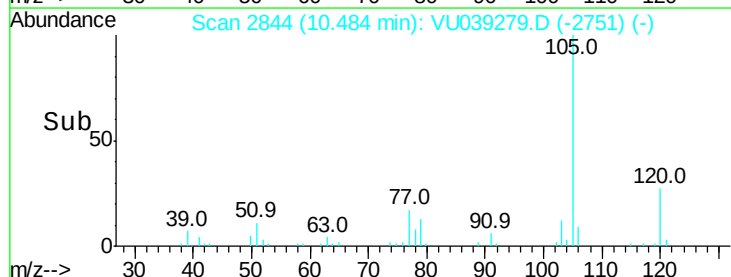
15000

10000

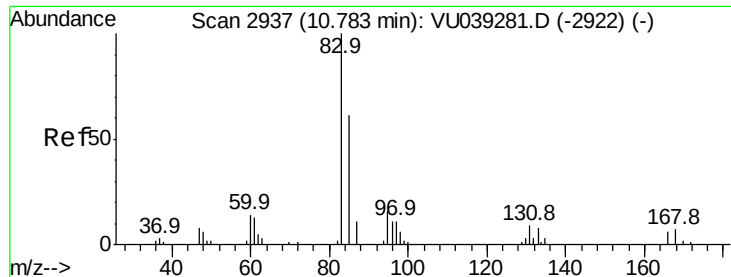
5000

0

Time-->







#58

1,1,2,2-Tetrachloroethane

Concen: 0.533 ug/L

RT: 10.78 min Scan# 2937

Delta R.T. 0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.504

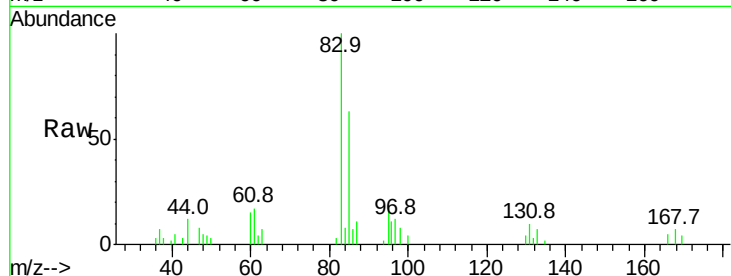
Tgt Ion: 83 Resp: 7291

Ion Ratio Lower Upper

83 100

85 63.0 43.0 79.8

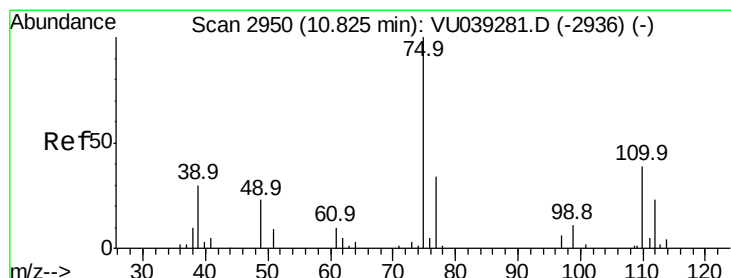
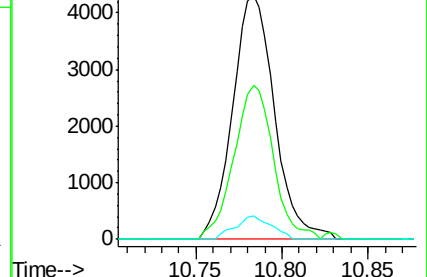
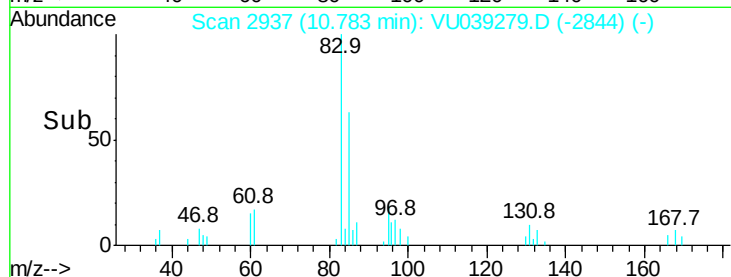
131 9.5 7.4 11.2



Abundance Ion 82.95 (82.65 to 83.65): VU039279.D (-2844) (-)

Ion 85.00 (84.70 to 85.70): VU039279.D (-2844) (-)

Ion 130.95 (130.65 to 131.65): VU039279.D (-2844) (-)



#59

1,2,3-Trichloropropane

Concen: 0.510 ug/L

RT: 10.83 min Scan# 2950

Delta R.T. 0.00 min

Lab File: VU039279.D

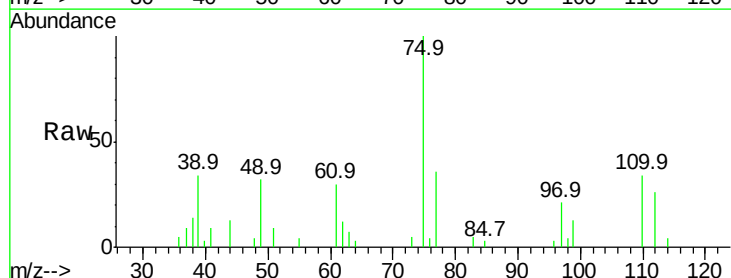
Acq: 06 Jul 2020 09:31

Tgt Ion: 75 Resp: 5223

Ion Ratio Lower Upper

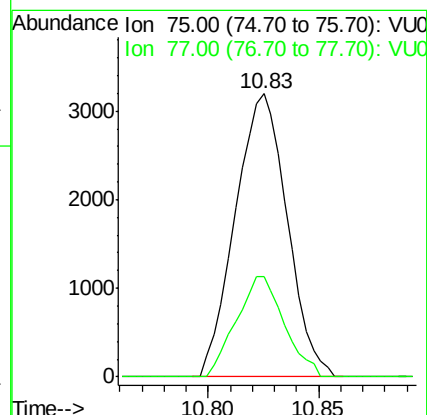
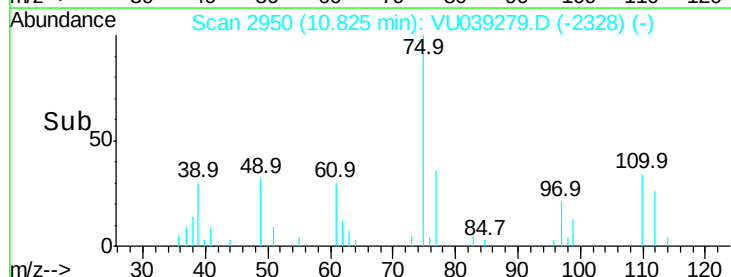
75 100

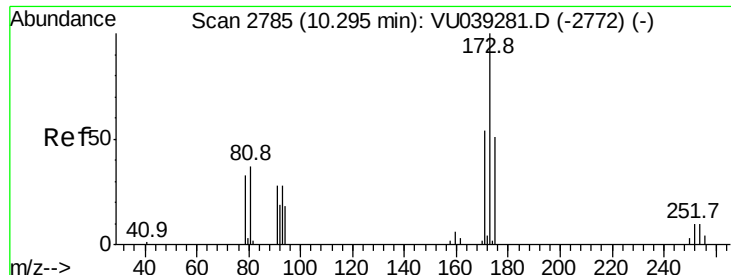
77 32.7 27.7 41.5



Abundance Ion 75.00 (74.70 to 75.70): VU039279.D (-2328) (-)

Ion 77.00 (76.70 to 77.70): VU039279.D (-2328) (-)





#61

Bromoform

Concen: 0.540 ug/L

RT: 10.29 min Scan# 2784

Delta R.T. -0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.504

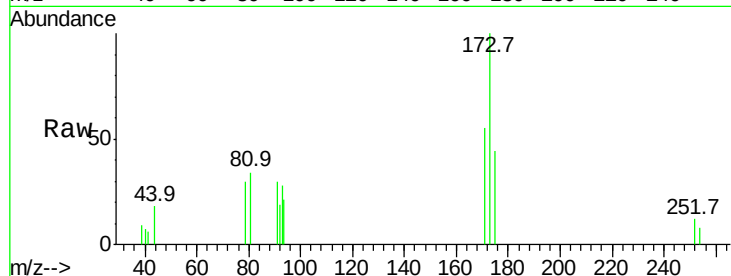
Tgt Ion:173 Resp: 3600

Ion Ratio Lower Upper

173 100

175 47.8 39.3 58.9

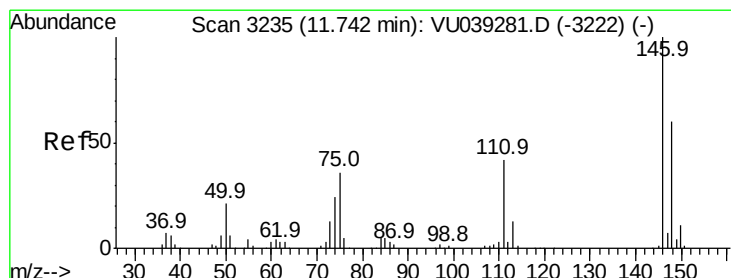
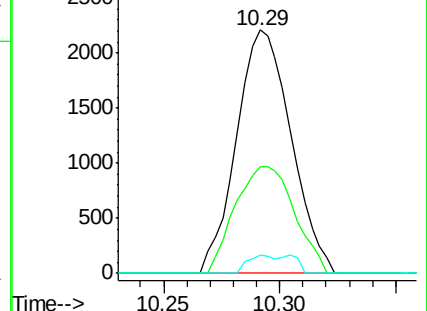
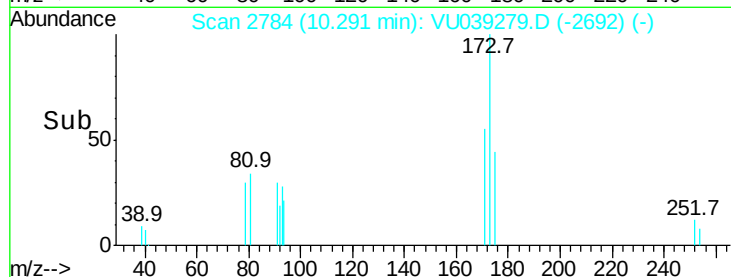
254 3.7 7.1 10.7#



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V



#62

1,3-Dichlorobenzene

Concen: 0.507 ug/L

RT: 11.74 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

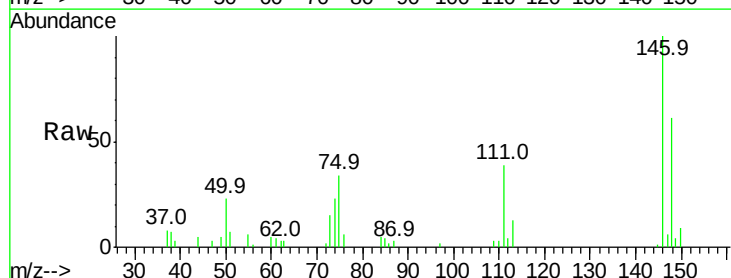
Tgt Ion:146 Resp: 12990

Ion Ratio Lower Upper

146 100

111 38.9 29.4 54.6

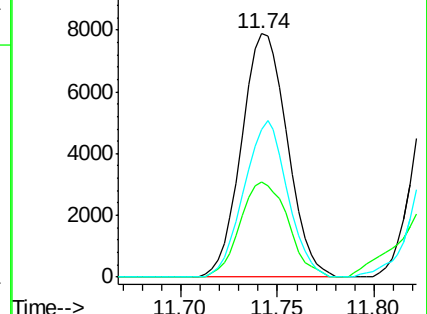
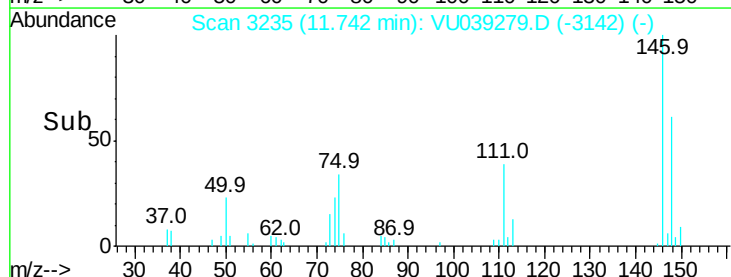
148 60.8 42.0 78.0

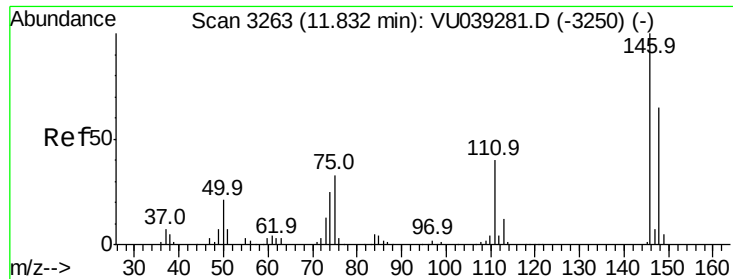


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

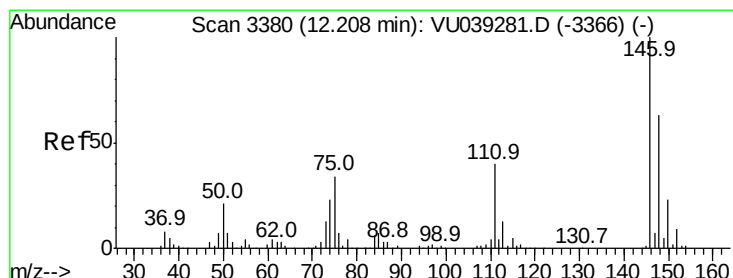
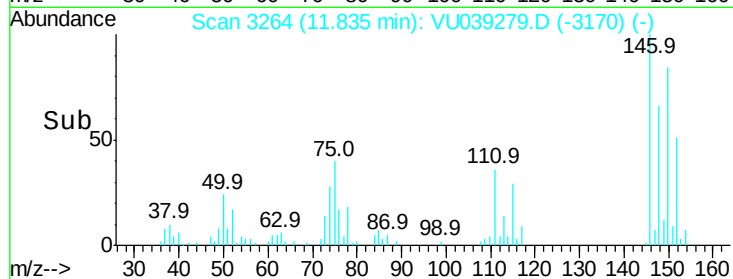
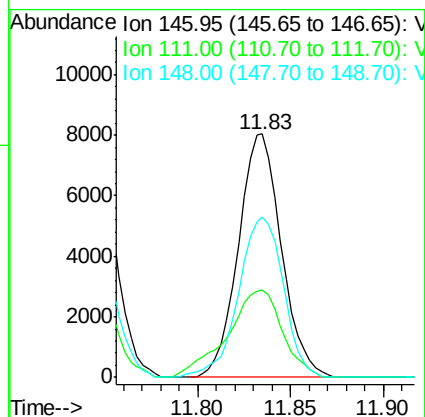
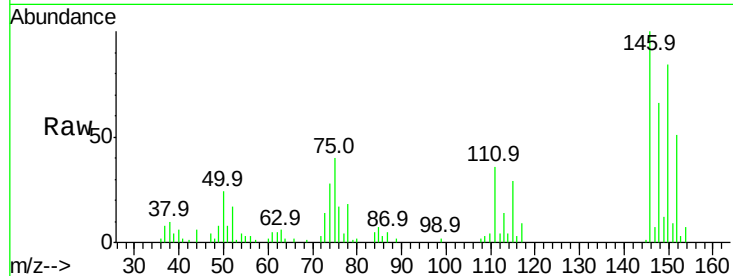




#63  
 1,4-Dichlorobenzene  
 Concen: 0.509 ug/L  
 RT: 11.83 min Scan# 3264  
 Delta R.T. 0.00 min  
 Lab File: VU039279.D  
 Acq: 06 Jul 2020 09:31

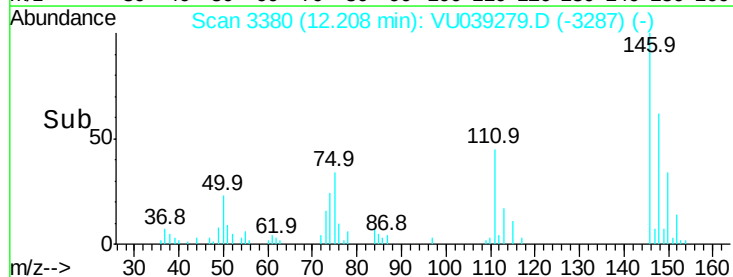
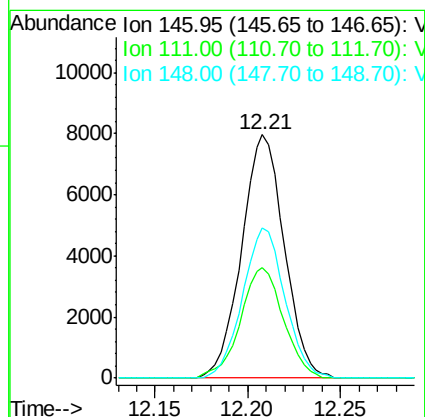
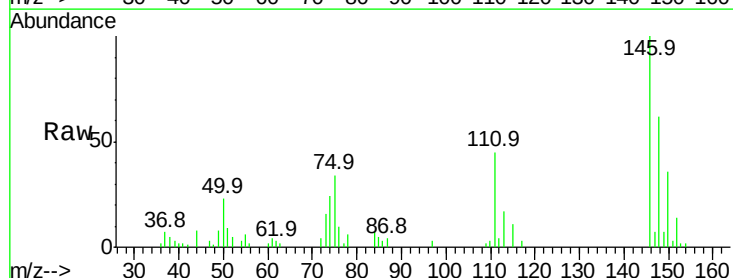
Instrument :  
 MSVOA\_U  
 ClientSampled :  
 VSTD0.504

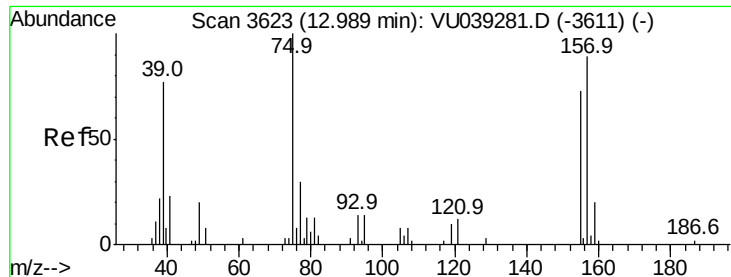
Tgt Ion:146 Resp: 12963  
 Ion Ratio Lower Upper  
 146 100  
 111 35.9 28.3 52.5  
 148 65.6 45.8 85.2



#65  
 1,2-Dichlorobenzene  
 Concen: 0.495 ug/L  
 RT: 12.21 min Scan# 3380  
 Delta R.T. 0.00 min  
 Lab File: VU039279.D  
 Acq: 06 Jul 2020 09:31

Tgt Ion:146 Resp: 12682  
 Ion Ratio Lower Upper  
 146 100  
 111 45.2 31.9 47.9  
 148 61.9 50.6 76.0





#66

1,2-Dibromo-3-chloropropane

Concen: 0.464 ug/L

RT: 12.99 min Scan# 3623

Delta R.T. 0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

Instrument :

MSVOA\_U

ClientSampleId :

VSTD0.504

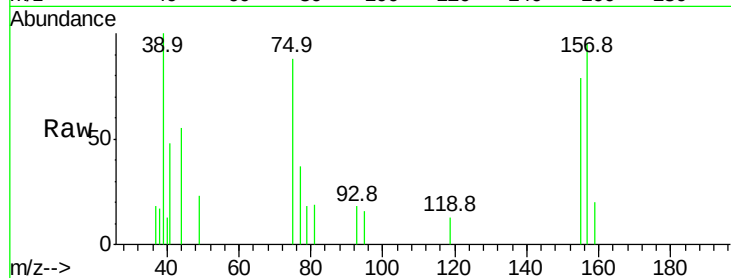
Tgt Ion: 75 Resp: 1196

Ion Ratio Lower Upper

75 100

155 89.3 58.6 88.0#

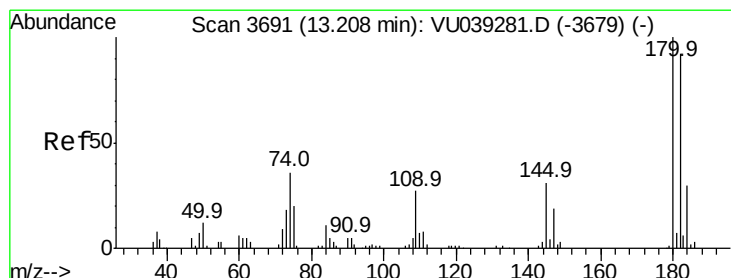
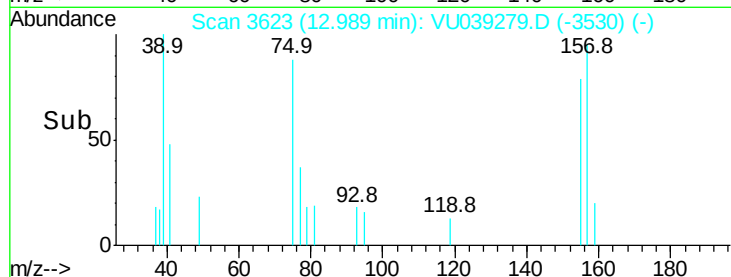
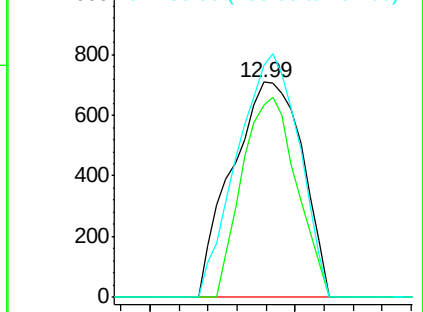
157 108.1 71.4 107.0#



Abundance Ion 75.05 (74.75 to 75.75): VU039279.D (-3530) (-)

Ion 154.95 (154.65 to 155.65): VU039279.D (-3530) (-)

Ion 156.90 (156.60 to 157.60): VU039279.D (-3530) (-)



#67

1,3,5-Trichlorobenzene

Concen: 0.504 ug/L

RT: 13.21 min Scan# 3692

Delta R.T. 0.00 min

Lab File: VU039279.D

Acq: 06 Jul 2020 09:31

Tgt Ion: 180 Resp: 9607

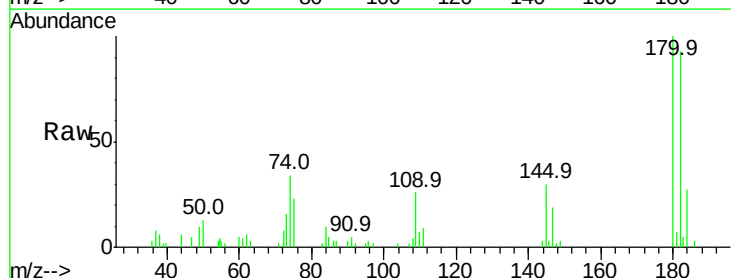
Ion Ratio Lower Upper

180 100

182 91.7 74.7 112.1

184 28.2 23.7 35.5

145 29.6 24.2 36.4

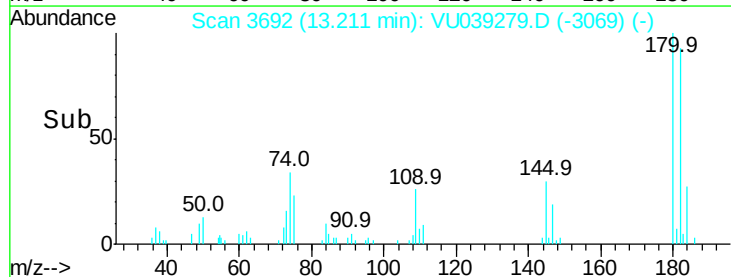
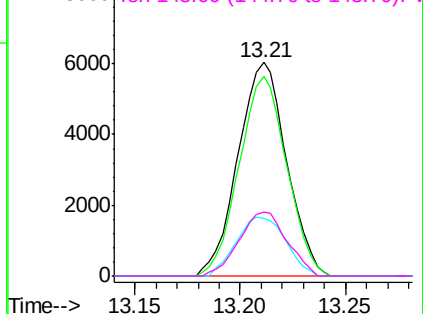


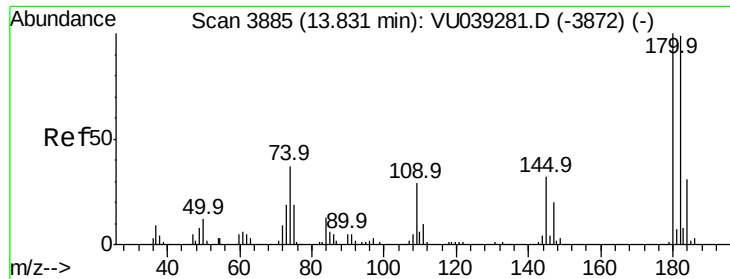
Abundance Ion 180.00 (179.70 to 180.70): VU039279.D (-3069) (-)

Ion 182.00 (181.70 to 182.70): VU039279.D (-3069) (-)

Ion 184.00 (183.70 to 184.70): VU039279.D (-3069) (-)

Ion 145.00 (144.70 to 145.70): VU039279.D (-3069) (-)

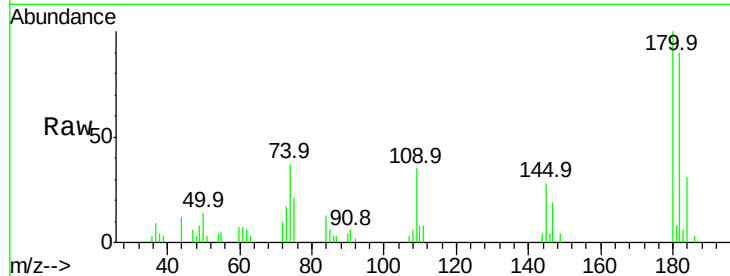




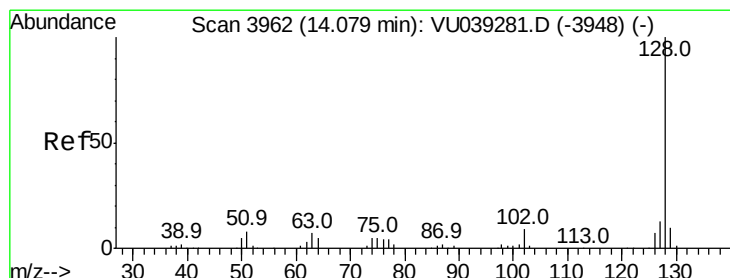
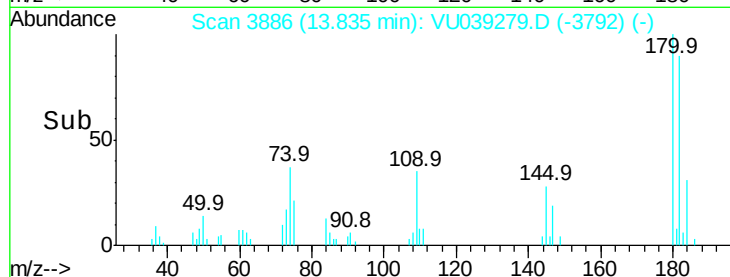
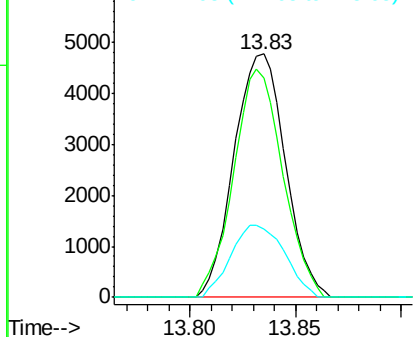
#68  
 1,2,4-trichlorobenzene  
 Concen: 0.500 ug/L  
 RT: 13.83 min Scan# 3886  
 Delta R.T. 0.00 min  
 Lab File: VU039279.D  
 Acq: 06 Jul 2020 09:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.504

Tgt Ion:180 Resp: 8049  
 Ion Ratio Lower Upper  
 180 100  
 182 90.1 77.6 116.4  
 145 31.1 24.7 37.1

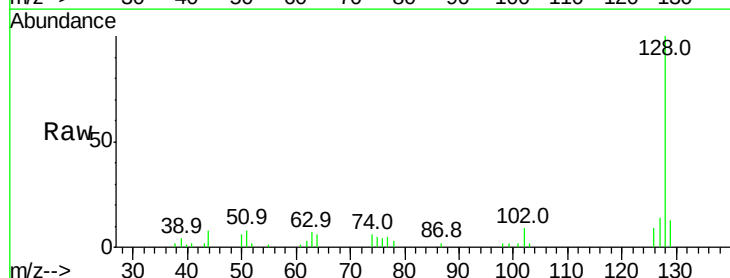


Abundance Ion 179.90 (179.60 to 180.60): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 144.95 (144.65 to 145.65): V

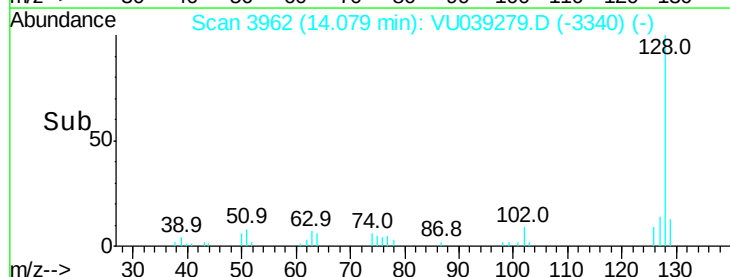
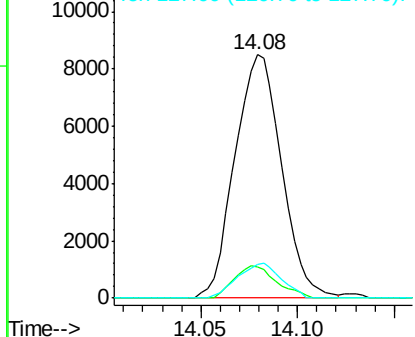


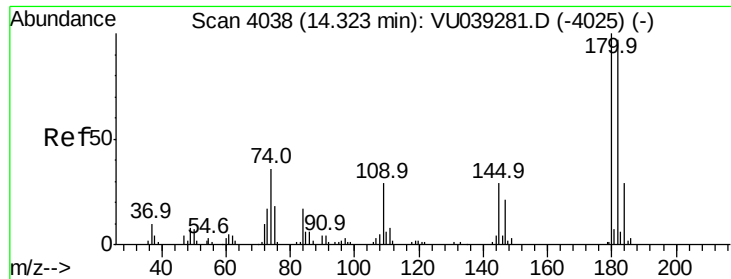
#69  
 Naphthalene  
 Concen: 0.493 ug/L  
 RT: 14.08 min Scan# 3962  
 Delta R.T. 0.00 min  
 Lab File: VU039279.D  
 Acq: 06 Jul 2020 09:31

Tgt Ion:128 Resp: 14264  
 Ion Ratio Lower Upper  
 128 100  
 129 11.9 8.3 12.5  
 127 13.4 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

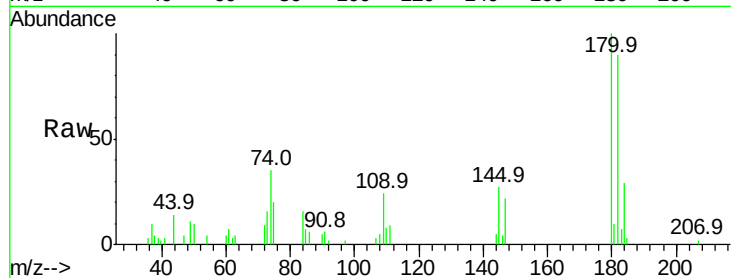




#70  
 1,2,3-Trichlorobenzene  
 Concen: 0.490 ug/L  
 RT: 14.32 min Scan# 4037  
 Delta R.T. -0.00 min  
 Lab File: VU039279.D  
 Acq: 06 Jul 2020 09:31

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD0.504

Tgt Ion:180 Resp: 7334  
 Ion Ratio Lower Upper  
 180 100  
 182 95.6 77.8 116.6  
 145 30.6 25.7 38.5



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

