

Data File : VU037610.D  
Acq On : 09 Apr 2020 10:56  
Operator : JC/MD  
Sample : VSTD100  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD10034

Quant Time: Apr 09 11:32:35 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040920WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Apr 09 10:58:31 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.28  | 114  | 575575   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.44  | 117  | 549480   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 274002   | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |         |        |      |      |
|--------------------------------|-------|-----|---------|--------|------|------|
| 4) Vinyl Chloride-d3           | 1.61  | 65  | 498400  | 106.62 | ug/L | 0.00 |
| 7) Chloroethane-d5             | 1.92  | 69  | 399882  | 106.47 | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 2.59  | 63  | 799496  | 101.75 | ug/L | 0.00 |
| 21) 2-Butanone-d5              | 4.66  | 46  | 798924  | 227.39 | ug/L | 0.00 |
| 24) Chloroform-d               | 5.10  | 84  | 751344  | 95.40  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 5.74  | 65  | 499121  | 95.45  | ug/L | 0.00 |
| 32) Benzene-d6                 | 5.76  | 84  | 1607442 | 100.96 | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 6.72  | 67  | 532171  | 99.30  | ug/L | 0.00 |
| 41) Toluene-d8                 | 7.92  | 98  | 1478526 | 99.65  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 8.20  | 79  | 283036  | 97.27  | ug/L | 0.00 |
| 47) 2-Hexanone-d5              | 8.65  | 63  | 613564  | 216.08 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 10.77 | 84  | 755181  | 98.57  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 12.21 | 152 | 564325  | 100.93 | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |         |         |      | Qvalue |
|--------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 420087  | 112.896 | ug/L | 98     |
| 3) Chloromethane               | 1.54 | 50  | 514139  | 130.259 | ug/L | 99     |
| 5) Vinyl chloride              | 1.62 | 62  | 526257  | 134.269 | ug/L | 100    |
| 6) Bromomethane                | 1.86 | 94  | 277732  | 143.676 | ug/L | 98     |
| 8) Chloroethane                | 1.94 | 64  | 312196  | 135.056 | ug/L | 100    |
| 9) Trichlorofluoromethane      | 2.15 | 101 | 557693  | 100.292 | ug/L | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.60 | 101 | 331372  | 104.477 | ug/L | 98     |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 345318  | 112.158 | ug/L | 88     |
| 13) Acetone                    | 2.66 | 43  | 449849  | 221.506 | ug/L | 100    |
| 14) Carbon disulfide           | 2.82 | 76  | 1170344 | 131.595 | ug/L | 99     |
| 15) Methyl Acetate             | 2.98 | 43  | 547968  | 119.070 | ug/L | 99     |
| 16) Methylene chloride         | 3.08 | 84  | 400098  | 107.134 | ug/L | 99     |
| 17) trans-1,2-Dichloroethene   | 3.38 | 96  | 369357  | 111.408 | ug/L | 98     |
| 18) Methyl tert-butyl Ether    | 3.40 | 73  | 1291644 | 111.142 | ug/L | 100    |
| 19) 1,1-Dichloroethane         | 3.91 | 63  | 727697  | 112.029 | ug/L | 99     |
| 20) cis-1,2-Dichloroethene     | 4.71 | 96  | 406969  | 106.595 | ug/L | 98     |
| 22) 2-Butanone                 | 4.74 | 43  | 801998  | 241.949 | ug/L | 100    |
| 23) Bromochloromethane         | 5.02 | 128 | 200924  | 109.645 | ug/L | 96     |
| 25) Chloroform                 | 5.13 | 83  | 686277  | 101.333 | ug/L | 100    |
| 27) 1,2-Dichloroethane         | 5.83 | 62  | 566356  | 108.358 | ug/L | 100    |
| 29) Cyclohexane                | 5.42 | 56  | 710489  | 123.379 | ug/L | 99     |
| 30) 1,1,1-Trichloroethane      | 5.35 | 97  | 585835  | 100.580 | ug/L | 100    |
| 31) Carbon tetrachloride       | 5.56 | 117 | 480906  | 100.317 | ug/L | 99     |
| 33) Benzene                    | 5.81 | 78  | 1590871 | 110.496 | ug/L | 100    |
| 34) Trichloroethene            | 6.57 | 95  | 387099  | 102.824 | ug/L | 99     |
| 35) Methylcyclohexane          | 6.79 | 83  | 682254  | 117.291 | ug/L | 99     |
| 37) 1,2-Dichloropropane        | 6.82 | 63  | 435871  | 106.253 | ug/L | 100    |
| 38) Bromodichloromethane       | 7.13 | 83  | 536800  | 100.611 | ug/L | 100    |
| 39) cis-1,3-Dichloropropene    | 7.63 | 75  | 723466  | 112.913 | ug/L | 100    |
| 40) 4-Methyl-2-pentanone       | 7.82 | 43  | 1555771 | 233.713 | ug/L | 100    |

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD10034

Quant Time: Apr 09 11:32:35 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040920WMA.M  
Quant Title : VOC Analysis  
QLast Update : Thu Apr 09 10:58:31 2020  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 42) Toluene                    | 7.99  | 91   | 1677303  | 107.655 | ug/L  | 99       |
| 44) trans-1,3-Dichloropropene  | 8.23  | 75   | 696077   | 110.318 | ug/L  | 99       |
| 45) 1,1,2-Trichloroethane      | 8.42  | 97   | 388384   | 103.697 | ug/L  | 99       |
| 46) Tetrachloroethene          | 8.57  | 164  | 289986   | 114.722 | ug/L  | 96       |
| 48) 2-Hexanone                 | 8.71  | 43   | 1213305  | 234.378 | ug/L  | 99       |
| 49) Dibromochloromethane       | 8.83  | 129  | 422888   | 101.230 | ug/L  | 97       |
| 50) 1,2-Dibromoethane          | 8.94  | 107  | 423656   | 102.853 | ug/L  | 98       |
| 51) Chlorobenzene              | 9.47  | 112  | 1052944  | 108.957 | ug/L  | 100      |
| 52) Ethylbenzene               | 9.59  | 91   | 1881911  | 106.809 | ug/L  | 100      |
| 53) m,p-Xylene                 | 9.71  | 106  | 718594   | 109.340 | ug/L  | 100      |
| 54) o-xylene                   | 10.12 | 106  | 711087   | 112.259 | ug/L  | 99       |
| 55) Styrene                    | 10.13 | 104  | 1247052  | 111.184 | ug/L  | 100      |
| 56) Isopropylbenzene           | 10.50 | 105  | 1857294  | 108.143 | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 10.80 | 83   | 703369   | 104.173 | ug/L  | 98       |
| 59) 1,2,3-Trichloropropane     | 10.84 | 75   | 593309   | 112.506 | ug/L  | 99       |
| 61) Bromoform                  | 10.31 | 173  | 336722   | 107.500 | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 11.76 | 146  | 835994   | 105.666 | ug/L  | 99       |
| 63) 1,4-Dichlorobenzene        | 11.85 | 146  | 835351   | 104.614 | ug/L  | 99       |
| 65) 1,2-Dichlorobenzene        | 12.23 | 146  | 820687   | 104.762 | ug/L  | 99       |
| 66) 1,2-Dibromo-3-chloropropan | 13.01 | 75   | 193720   | 103.094 | ug/L  | 97       |
| 67) 1,3,5-Trichlorobenzene     | 13.24 | 180  | 621285   | 113.135 | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 13.87 | 180  | 598495   | 114.323 | ug/L  | 99       |
| 69) Naphthalene                | 14.11 | 128  | 2130210  | 96.046  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 14.36 | 180  | 590338   | 111.624 | ug/L  | 100      |

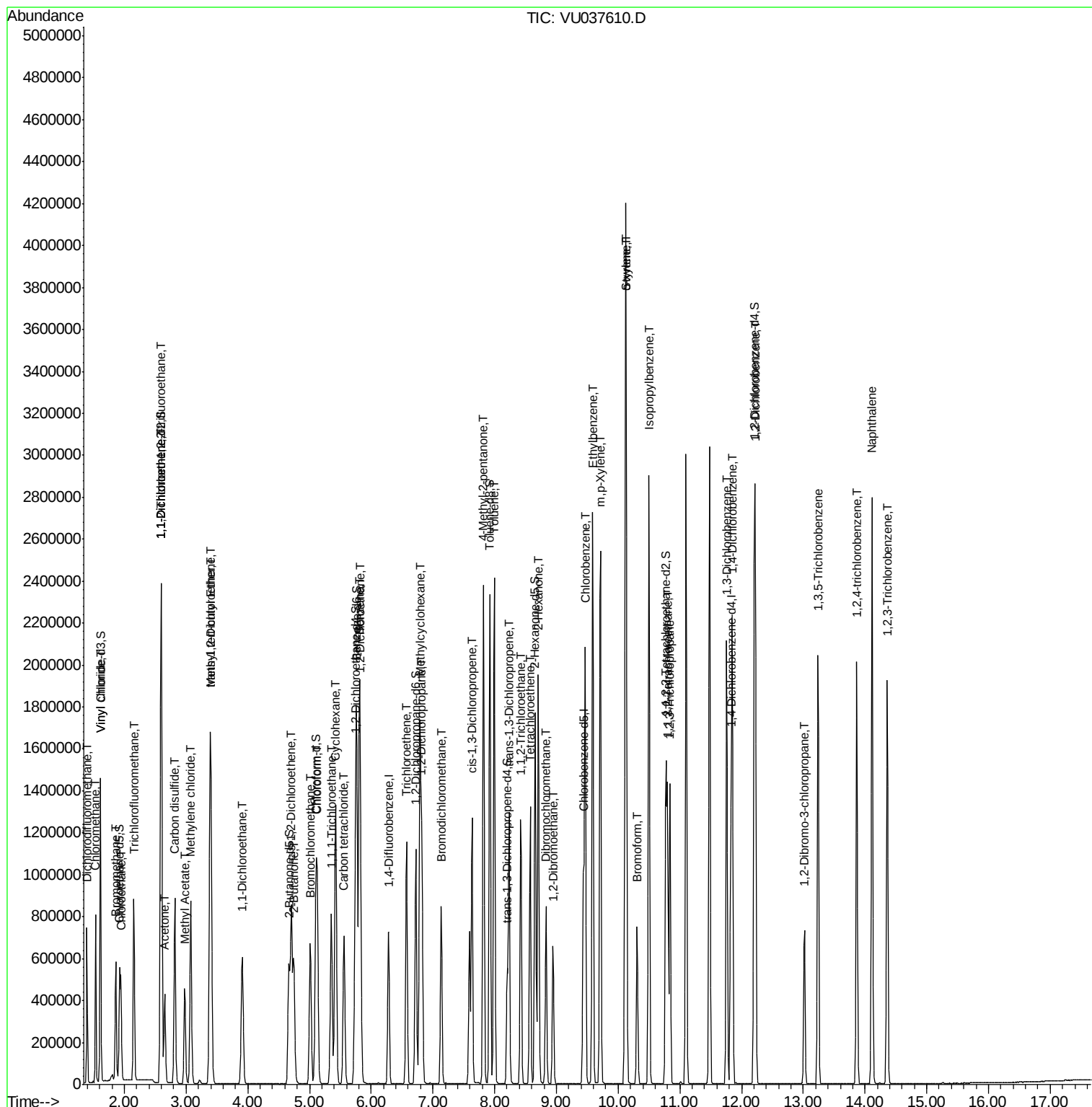
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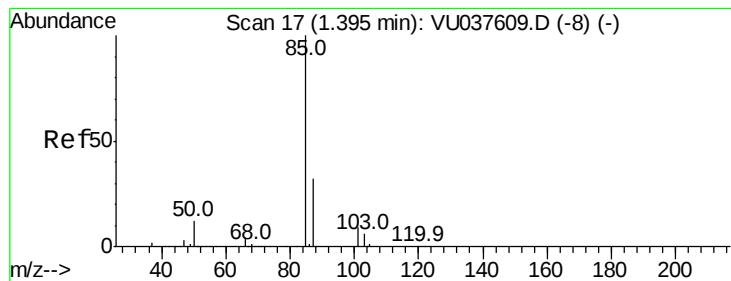
Data File : VU037610.D

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Acq On       : 09 Apr 2020   10:56
Operator    : JC/MD
Sample      : VSTD100
Misc       : 5.0mL/MSV0A_U/WATER
ALS Vial    : 1      Sample Multiplier: 1
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**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
VSTD10034

Quant Time: Apr 09 11:32:35 2020  
Quant Method : Z:\V\OASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040920WMA.M  
Quant Title : VOC Analysis  
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#2

Dichlorodifluoromethane

Concen: 112.896 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

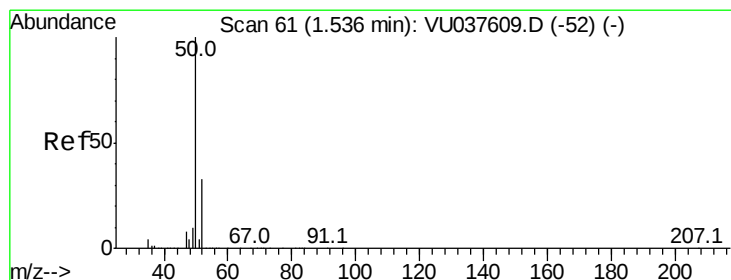
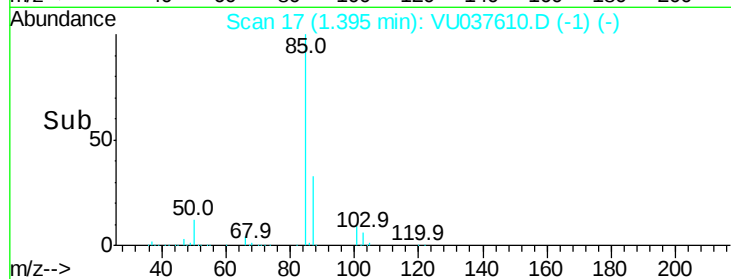
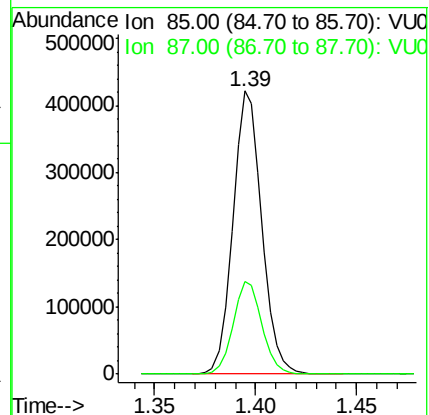
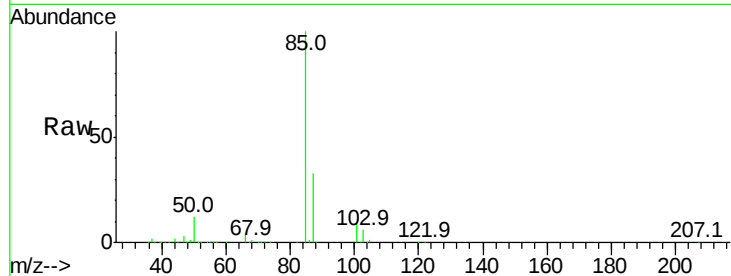
VSTD10034

Tgt Ion: 85 Resp: 420087

Ion Ratio Lower Upper

85 100

87 32.9 25.4 38.2



#3

Chloromethane

Concen: 130.259 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU037610.D

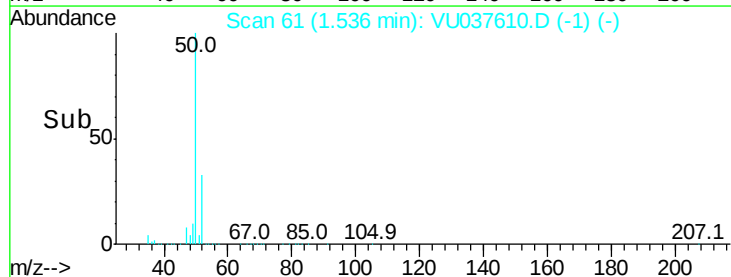
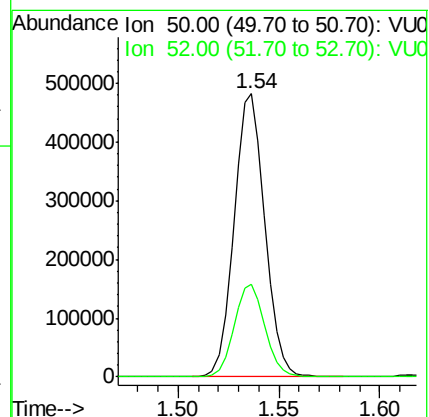
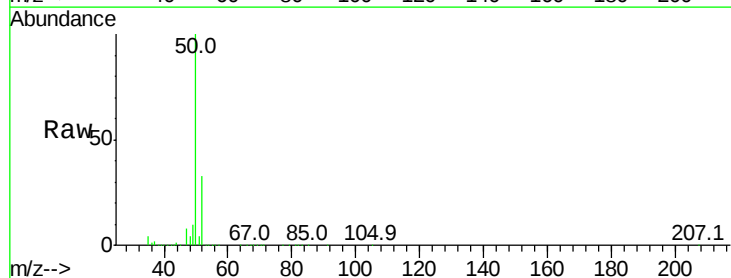
Acq: 09 Apr 2020 10:56

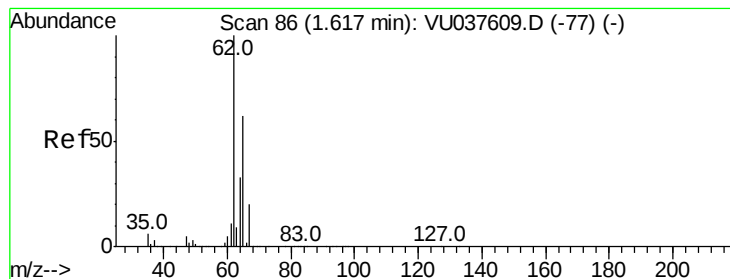
Tgt Ion: 50 Resp: 514139

Ion Ratio Lower Upper

50 100

52 32.6 23.3 43.3





#5

Vinyl chloride

Concen: 134.269 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampled :

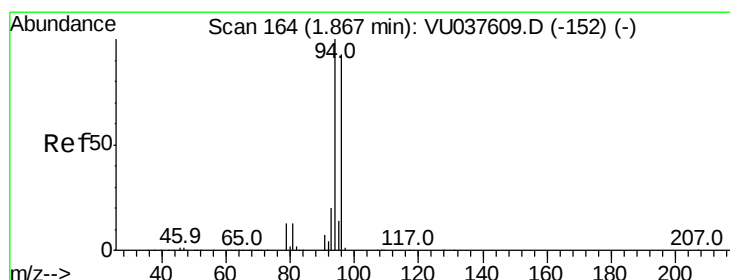
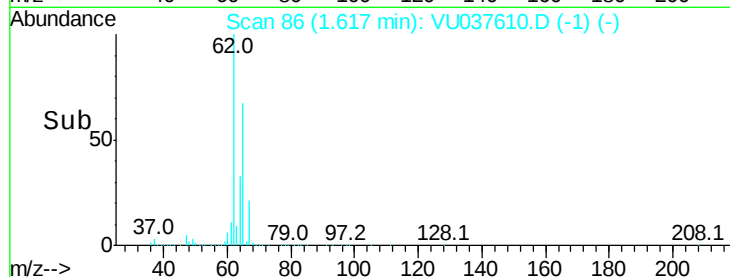
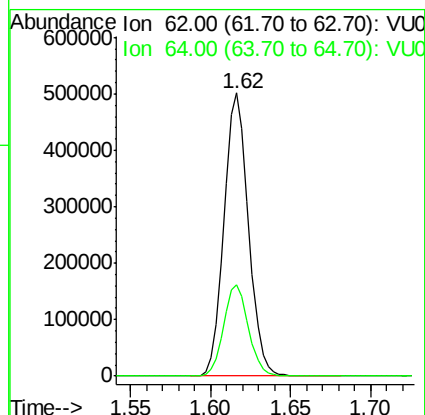
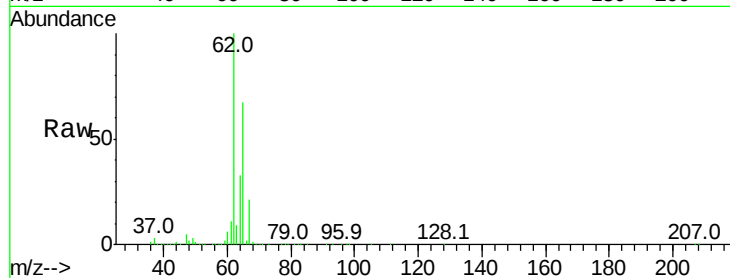
VSTD10034

Tgt Ion: 62 Resp: 526257

Ion Ratio Lower Upper

62 100

64 32.5 22.8 42.4



#6

Bromomethane

Concen: 143.676 ug/L

RT: 1.86 min Scan# 162

Delta R.T. -0.01 min

Lab File: VU037610.D

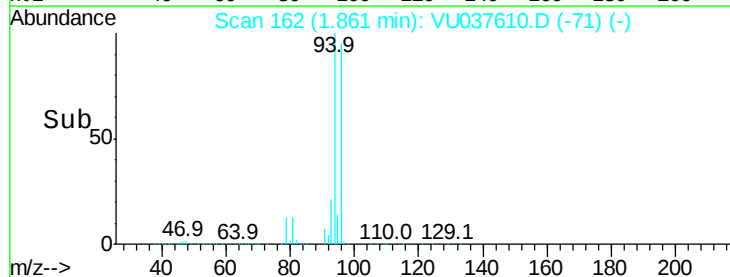
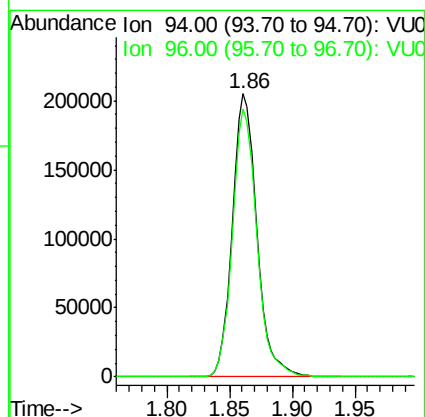
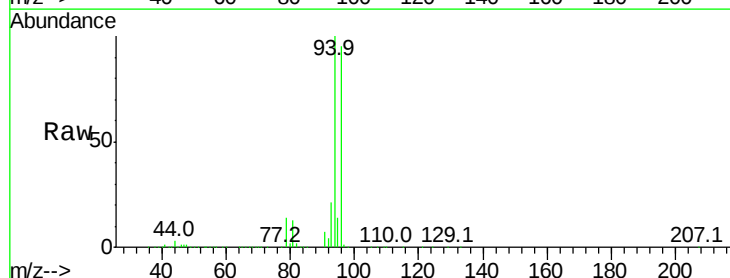
Acq: 09 Apr 2020 10:56

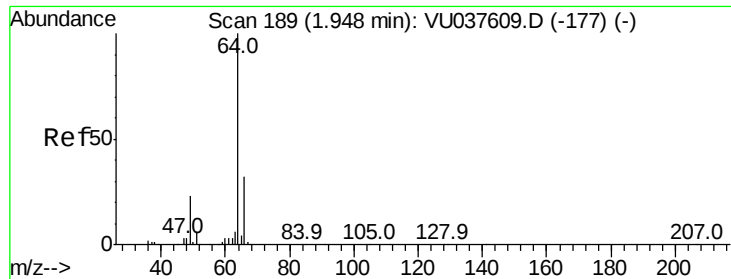
Tgt Ion: 94 Resp: 277732

Ion Ratio Lower Upper

94 100

96 94.7 65.2 121.2

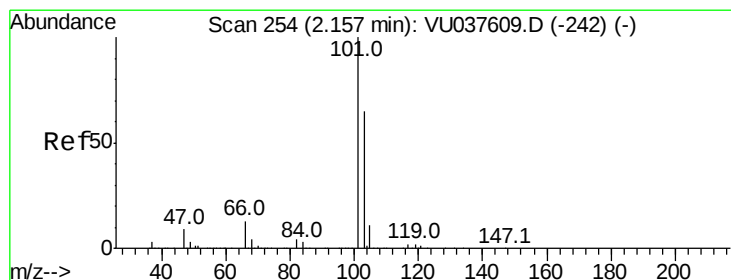
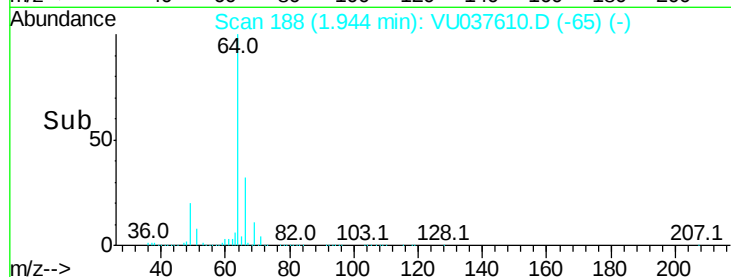
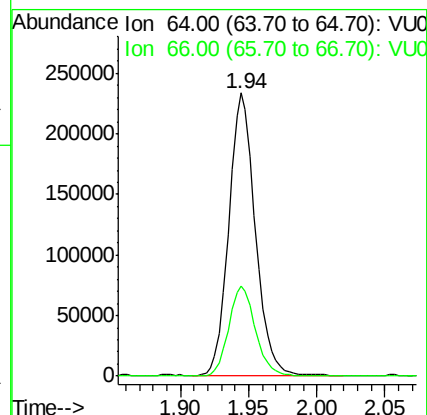
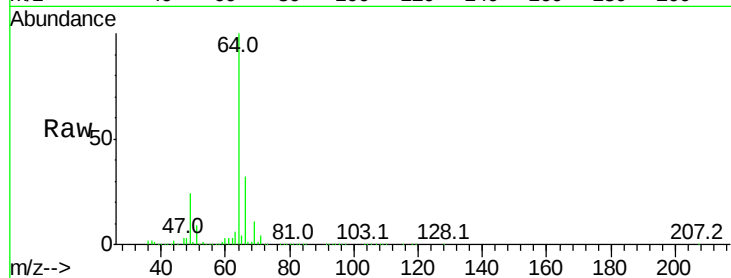




#8  
Chloroethane  
Concen: 135.056 ug/L  
RT: 1.94 min Scan# 188  
Delta R.T. -0.00 min  
Lab File: VU037610.D  
Acq: 09 Apr 2020 10:56

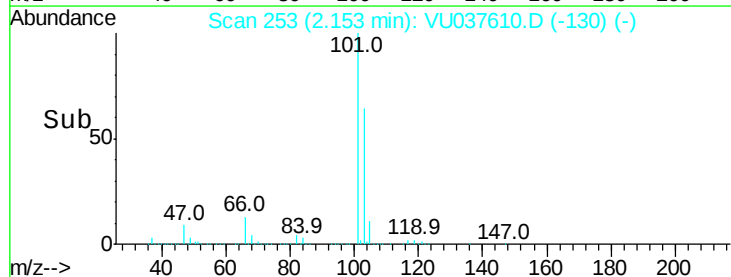
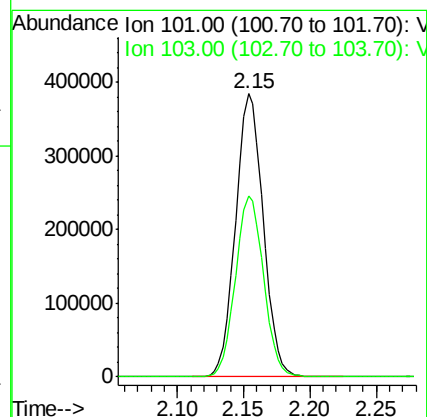
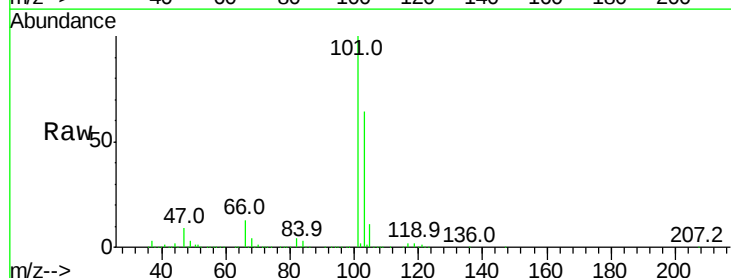
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD10034

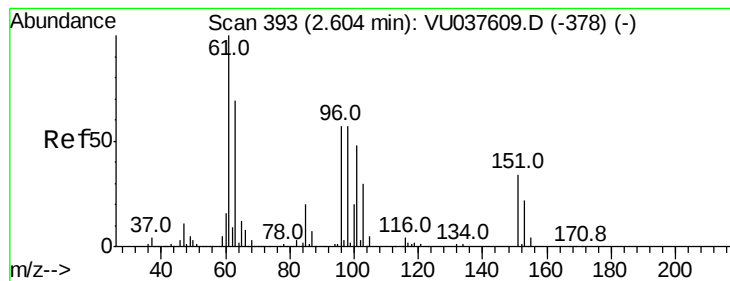
Tgt Ion: 64 Resp: 312196  
Ion Ratio Lower Upper  
64 100  
66 32.0 22.6 42.0



#9  
Trichlorofluoromethane  
Concen: 100.292 ug/L  
RT: 2.15 min Scan# 253  
Delta R.T. -0.00 min  
Lab File: VU037610.D  
Acq: 09 Apr 2020 10:56

Tgt Ion: 101 Resp: 557693  
Ion Ratio Lower Upper  
101 100  
103 65.0 52.2 78.2





#10

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

Concen: 104.477 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD10034

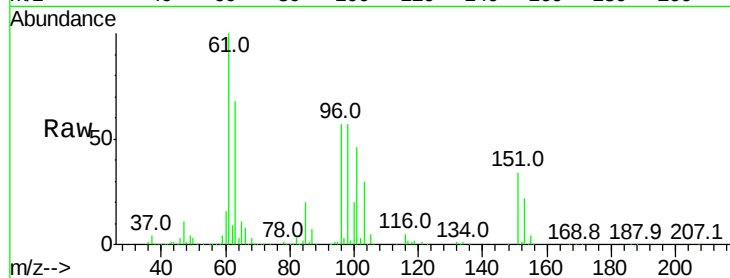
Tgt Ion:101 Resp: 331372

Ion Ratio Lower Upper

101 100

85 43.5 34.5 51.7

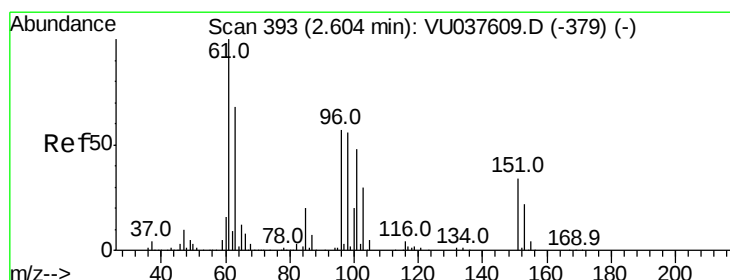
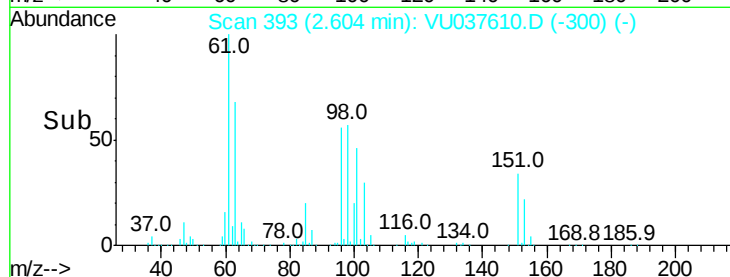
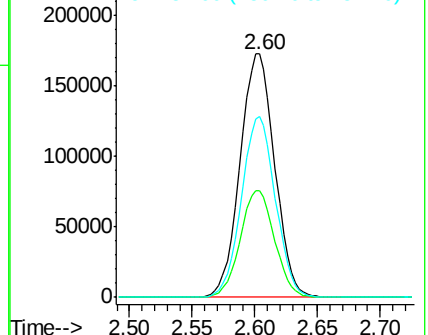
151 72.8 56.8 85.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 112.158 ug/L

RT: 2.60 min Scan# 392

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

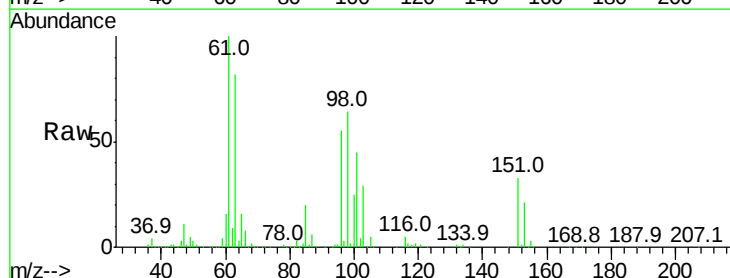
Tgt Ion: 96 Resp: 345318

Ion Ratio Lower Upper

96 100

61 181.0 123.6 229.6

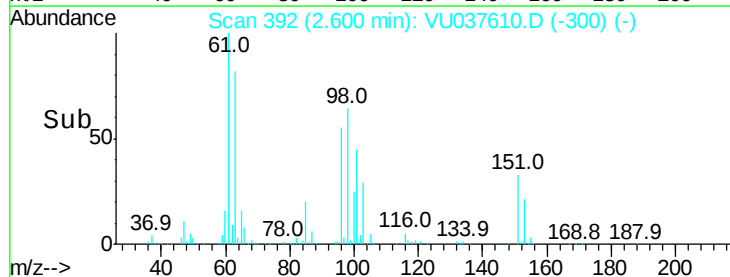
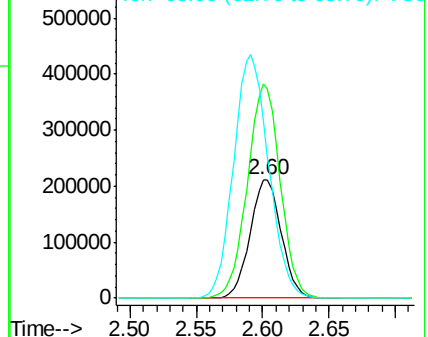
63 149.2 85.7 159.1

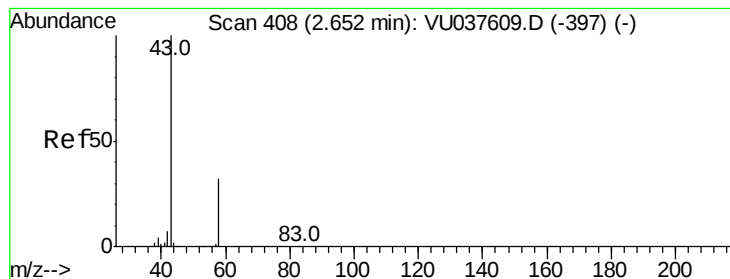


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 221.506 ug/L

RT: 2.66 min Scan# 409

Delta R.T. 0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

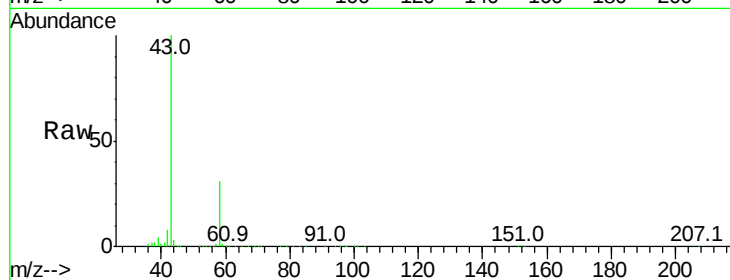
VSTD10034

Tgt Ion: 43 Resp: 449849

Ion Ratio Lower Upper

43 100

58 31.8 0.0 63.2



Abundance Ion 43.00 (42.70 to 43.70): VU037610.D (-315) (-)

Ion 58.00 (57.70 to 58.70): VU037610.D (-315) (-)

2.66

250000

200000

150000

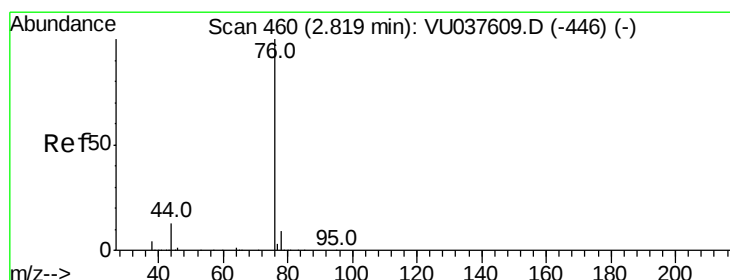
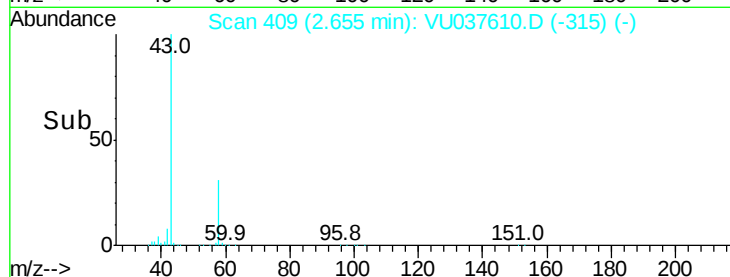
100000

50000

0

Time-->

2.60 2.65 2.70 2.75



#14

Carbon disulfide

Concen: 131.595 ug/L

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU037610.D

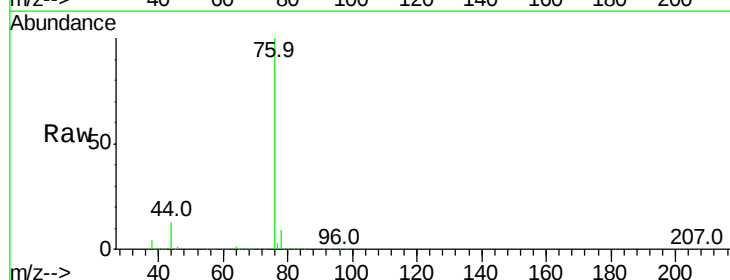
Acq: 09 Apr 2020 10:56

Tgt Ion: 76 Resp: 1170344

Ion Ratio Lower Upper

76 100

78 9.2 7.0 10.6



Abundance Ion 76.00 (75.70 to 76.70): VU037610.D (-367) (-)

Ion 78.00 (77.70 to 78.70): VU037610.D (-367) (-)

2.82

800000

600000

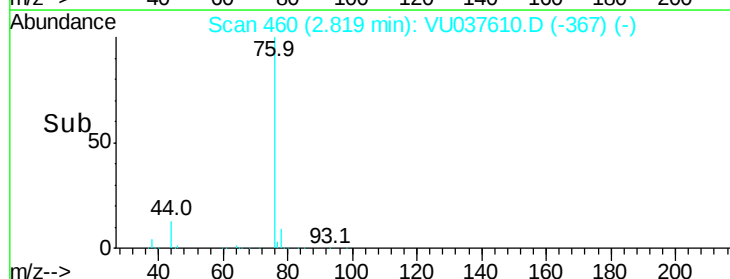
400000

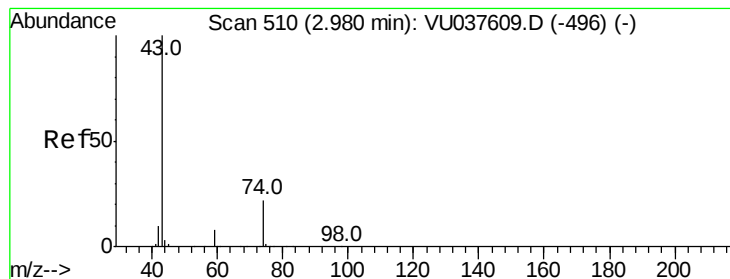
200000

0

Time-->

2.70 2.80 2.90





#15

Methyl Acetate

Concen: 119.070 ug/L

RT: 2.98 min Scan# 510

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

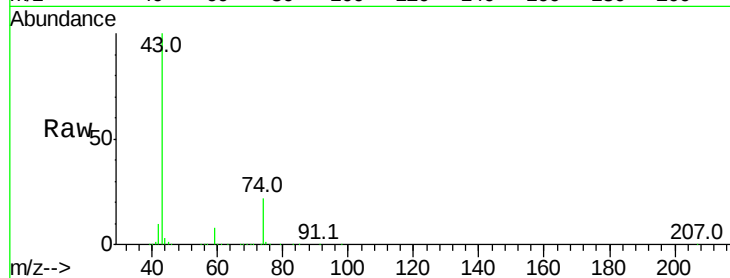
VSTD10034

Tgt Ion: 43 Resp: 547968

Ion Ratio Lower Upper

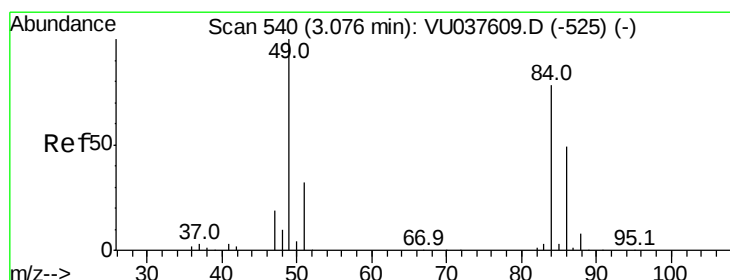
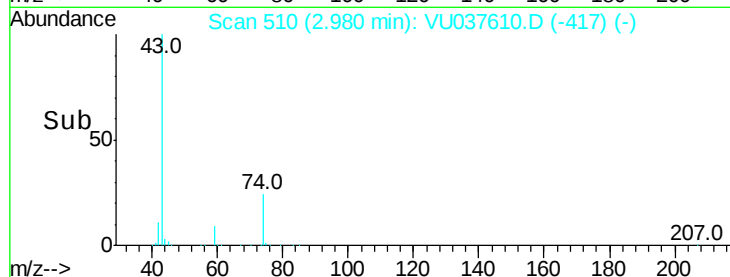
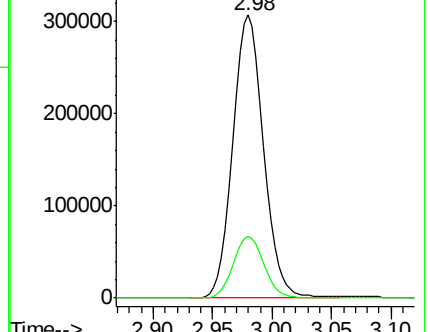
43 100

74 21.9 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VU037610.D (-417) (-)

Ion 74.00 (73.70 to 74.70): VU037610.D (-417) (-)



#16

Methylene chloride

Concen: 107.134 ug/L

RT: 3.08 min Scan# 540

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

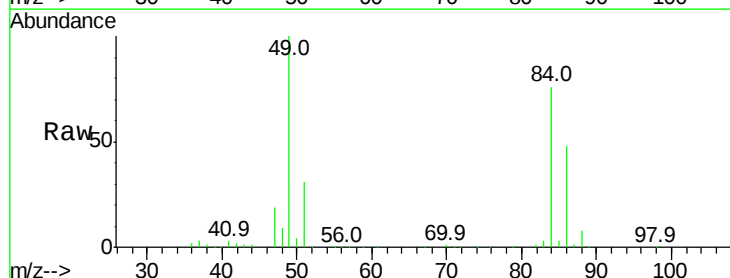
Tgt Ion: 84 Resp: 400098

Ion Ratio Lower Upper

84 100

86 62.9 44.1 81.9

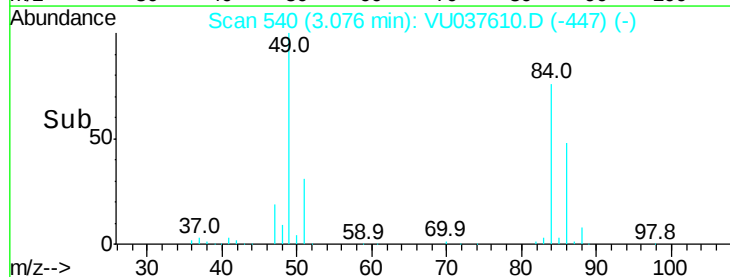
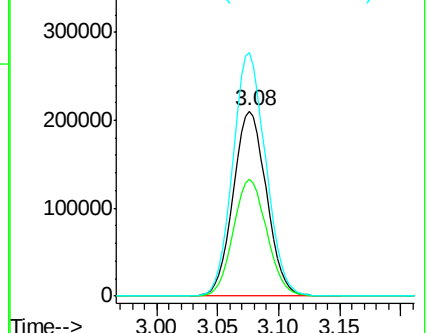
49 131.5 90.3 167.7

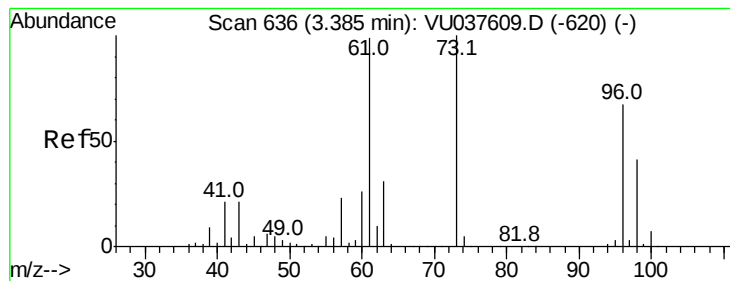


Abundance Ion 84.00 (83.70 to 84.70): VU037610.D (-447) (-)

Ion 86.00 (85.70 to 86.70): VU037610.D (-447) (-)

Ion 49.00 (48.70 to 49.70): VU037610.D (-447) (-)





#17

trans-1,2-Dichloroethene

Concen: 111.408 ug/L

RT: 3.38 min Scan# 636

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD10034

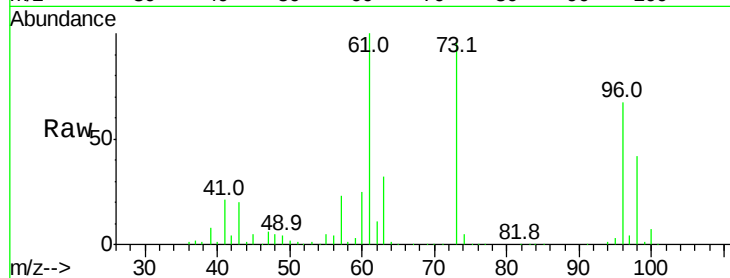
Tgt Ion: 96 Resp: 369357

Ion Ratio Lower Upper

96 100

61 150.3 103.2 191.6

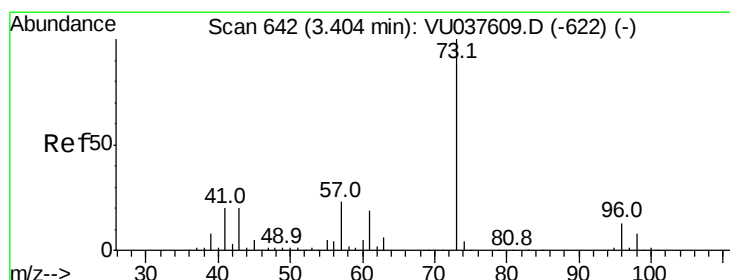
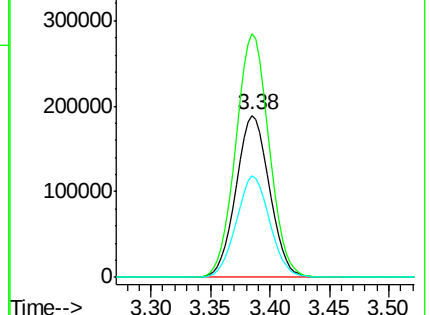
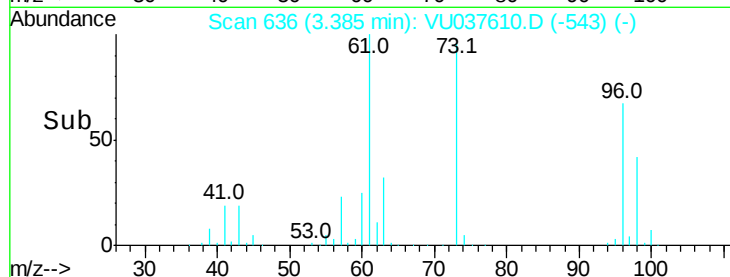
98 62.4 43.1 80.1



Abundance Ion 96.00 (95.70 to 96.70): VU037610.D (-543) (-)

Ion 61.00 (60.70 to 61.70): VU037610.D (-543) (-)

Ion 98.00 (97.70 to 98.70): VU037610.D (-543) (-)



#18

Methyl tert-butyl Ether

Concen: 111.142 ug/L

RT: 3.40 min Scan# 642

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

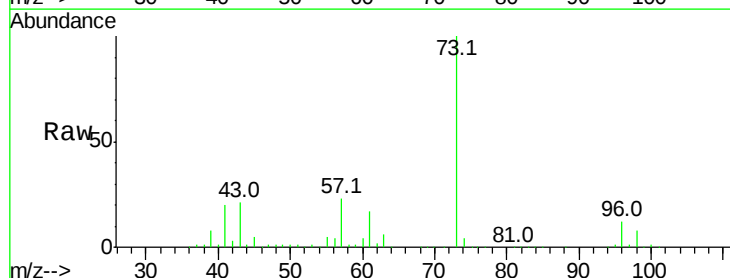
Tgt Ion: 73 Resp: 1291644

Ion Ratio Lower Upper

73 100

43 20.5 16.3 24.5

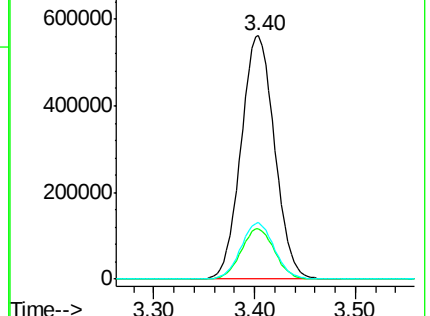
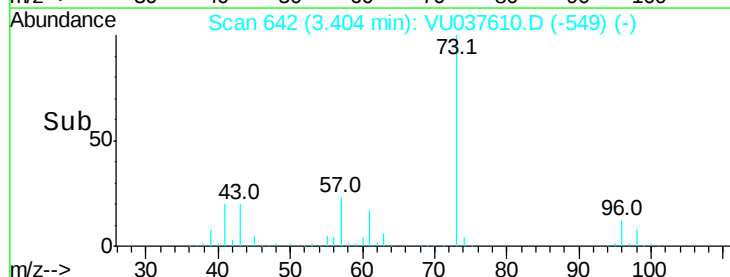
57 23.0 18.3 27.5

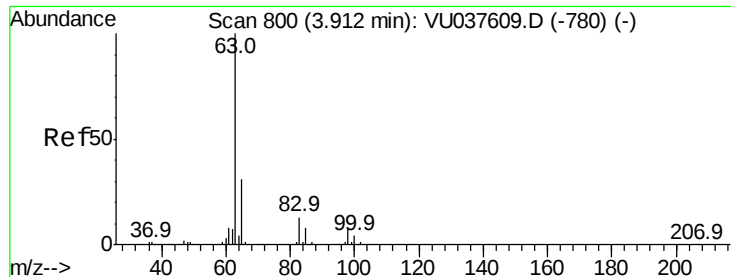


Abundance Ion 73.00 (72.70 to 73.70): VU037610.D (-549) (-)

Ion 43.00 (42.70 to 43.70): VU037610.D (-549) (-)

Ion 57.00 (56.70 to 57.70): VU037610.D (-549) (-)





#19

1,1-Dichloroethane

Concen: 112.029 ug/L

RT: 3.91 min Scan# 799

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD10034

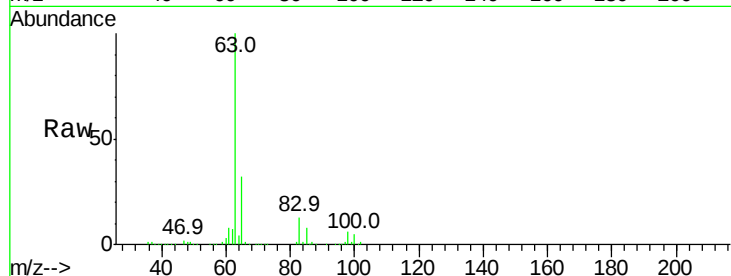
Tgt Ion: 63 Resp: 727697

Ion Ratio Lower Upper

63 100

65 31.8 21.9 40.7

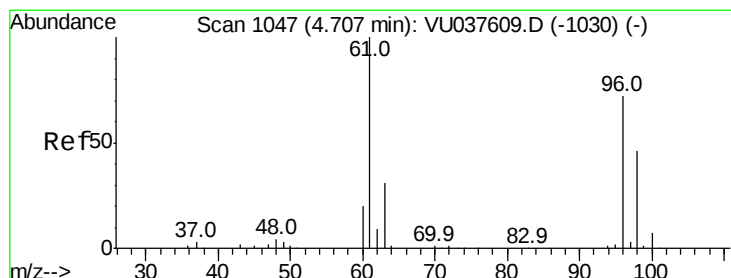
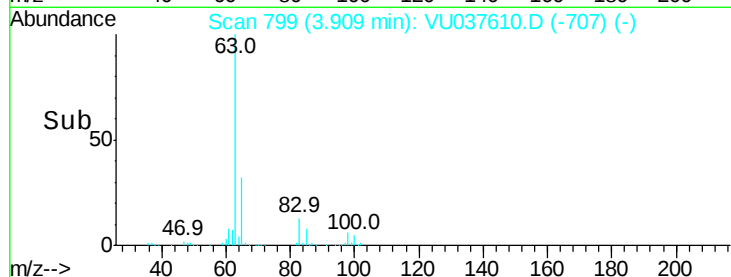
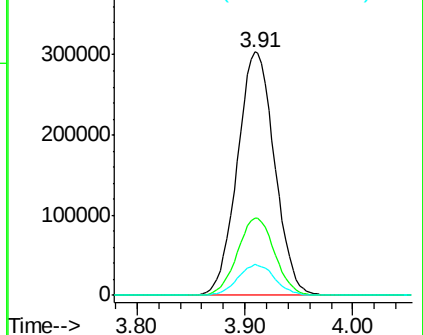
83 12.5 9.0 16.6



Abundance Ion 63.00 (62.70 to 63.70): VU037610.D (-799) (-)

Ion 65.00 (64.70 to 65.70): VU037610.D (-799) (-)

Ion 83.00 (82.70 to 83.70): VU037610.D (-799) (-)



#20

cis-1,2-Dichloroethene

Concen: 106.595 ug/L

RT: 4.71 min Scan# 1047

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

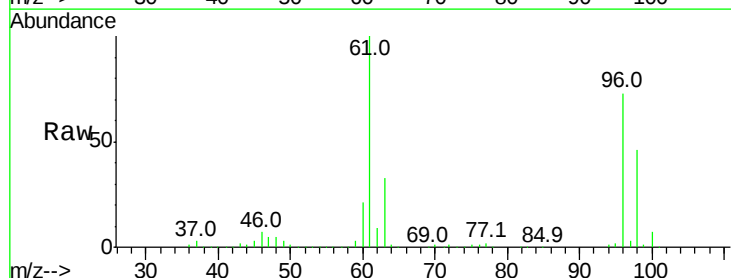
Tgt Ion: 96 Resp: 406969

Ion Ratio Lower Upper

96 100

61 137.3 97.5 181.1

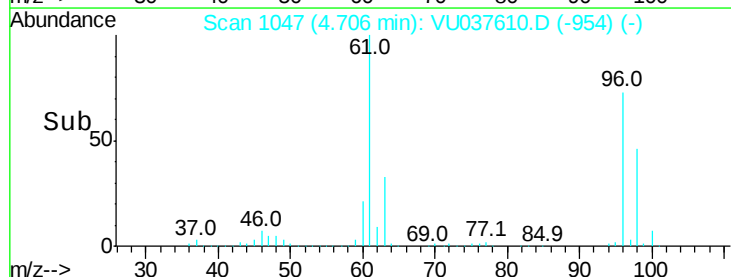
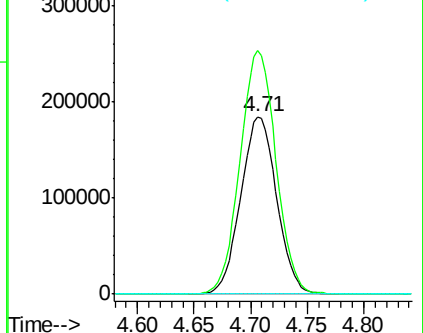
68 0.0 0.0 0.0

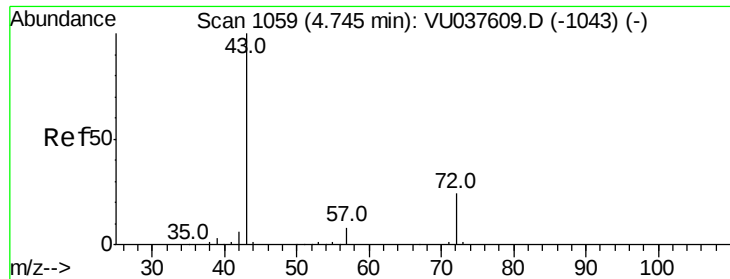


Abundance Ion 96.00 (95.70 to 96.70): VU037610.D (-1047) (-)

Ion 61.00 (60.70 to 61.70): VU037610.D (-1047) (-)

Ion 68.00 (67.70 to 68.70): VU037610.D (-1047) (-)





#22

2-Butanone

Concen: 241.949 ug/L

RT: 4.74 min Scan# 1059

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

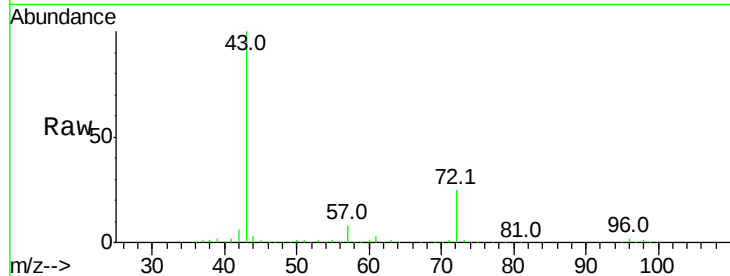
VSTD10034

Tgt Ion: 43 Resp: 801998

Ion Ratio Lower Upper

43 100

72 25.5 12.8 38.4



Abundance Ion 43.00 (42.70 to 43.70): VU037610.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU037610.D (-966) (-)

4.74

400000

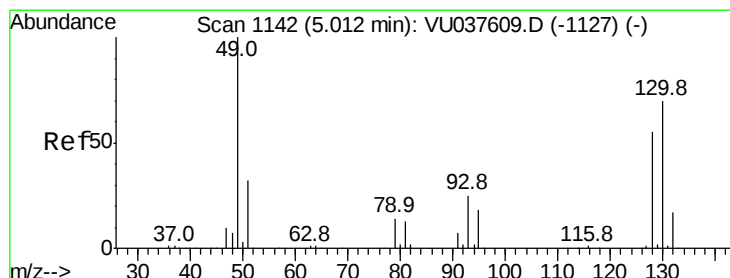
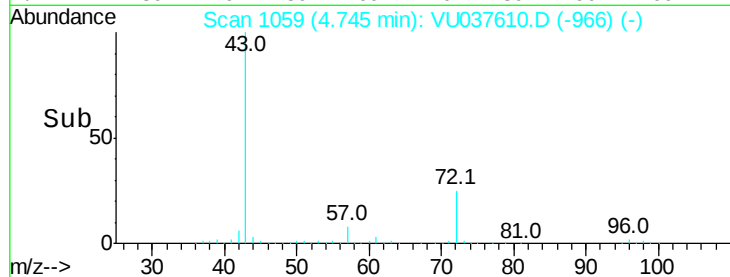
300000

200000

100000

0

Time-->



#23

Bromochloromethane

Concen: 109.645 ug/L

RT: 5.02 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Tgt Ion: 128 Resp: 200924

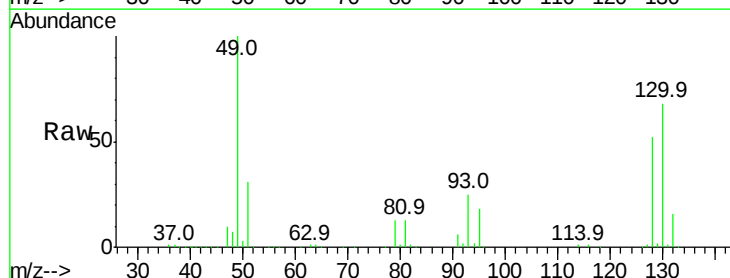
Ion Ratio Lower Upper

128 100

49 191.1 128.7 238.9

130 130.6 89.9 167.0

51 59.9 46.4 69.6



Abundance Ion 128.00 (127.70 to 128.70): VU037610.D (-1049) (-)

Ion 49.00 (48.70 to 49.70): VU037610.D (-1049) (-)

Ion 130.00 (129.70 to 130.70): VU037610.D (-1049) (-)

Ion 51.00 (50.70 to 51.70): VU037610.D (-1049) (-)

250000

200000

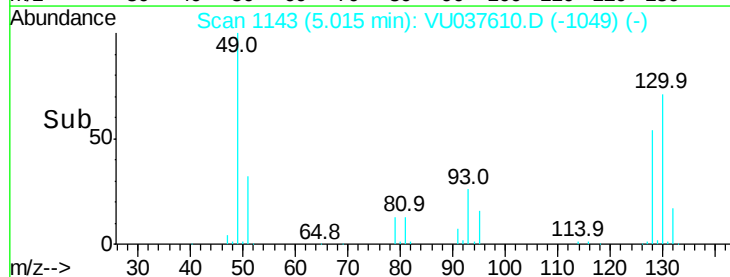
150000

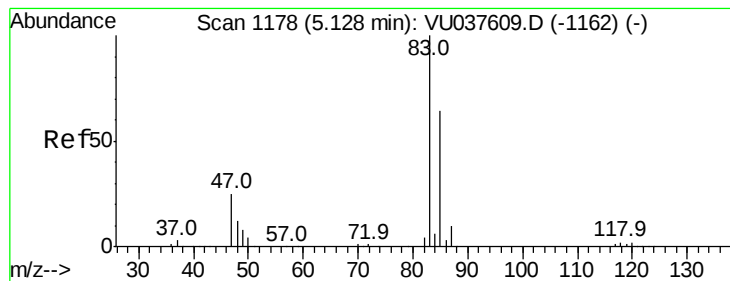
100000

50000

0

Time-->





#25

Chloroform

Concen: 101.333 ug/L

RT: 5.13 min Scan# 1178

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

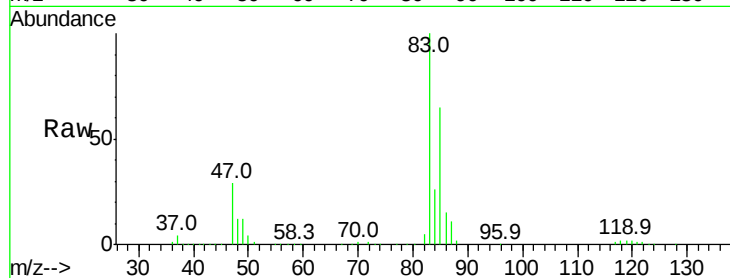
VSTD10034

Tgt Ion: 83 Resp: 686277

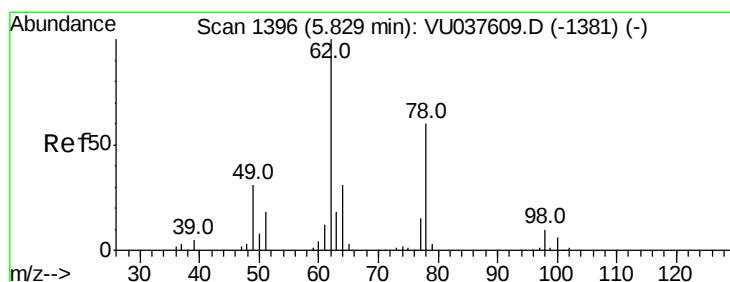
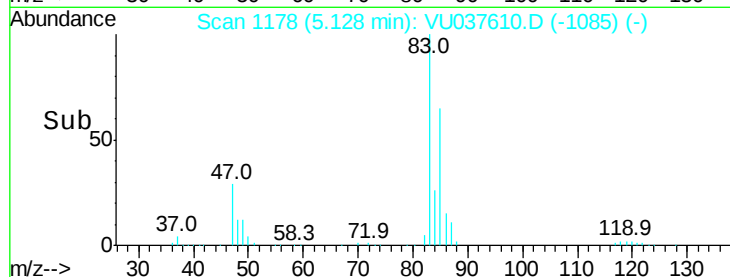
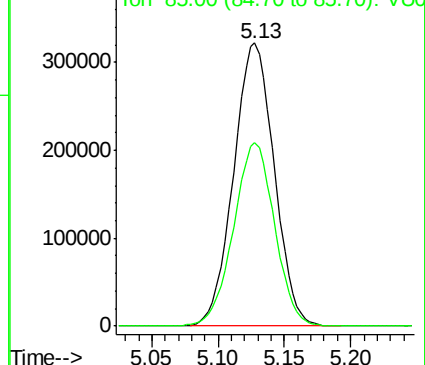
Ion Ratio Lower Upper

83 100

85 64.9 45.5 84.5



Abundance Ion 83.00 (82.70 to 83.70): VU037610.D (-1085) (-)



#27

1,2-Dichloroethane

Concen: 108.358 ug/L

RT: 5.83 min Scan# 1396

Delta R.T. -0.00 min

Lab File: VU037610.D

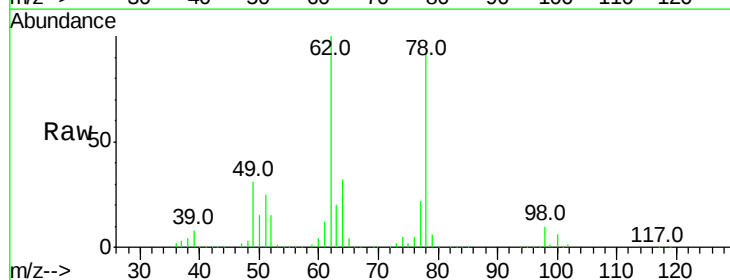
Acq: 09 Apr 2020 10:56

Tgt Ion: 62 Resp: 566356

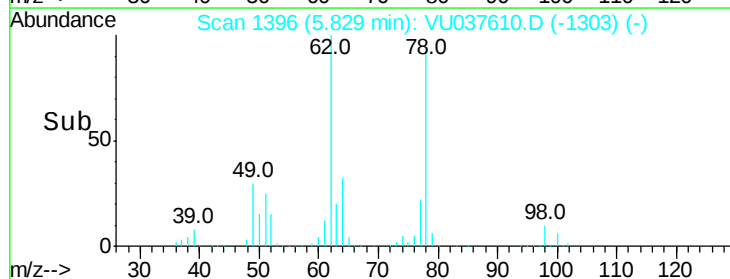
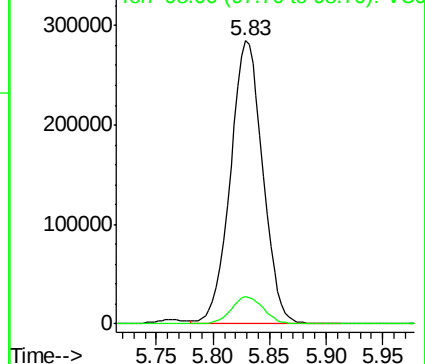
Ion Ratio Lower Upper

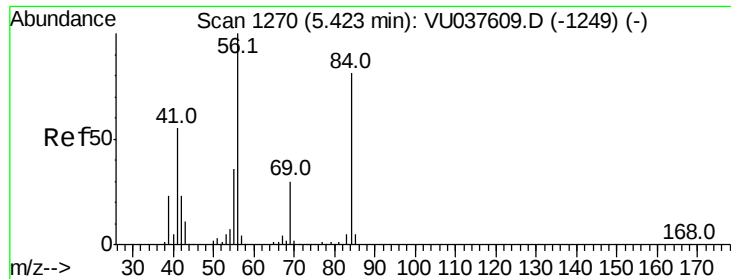
62 100

98 9.5 7.8 11.6



Abundance Ion 62.00 (61.70 to 62.70): VU037610.D (-1303) (-)

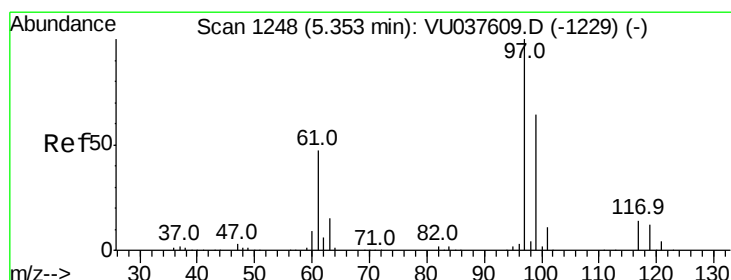
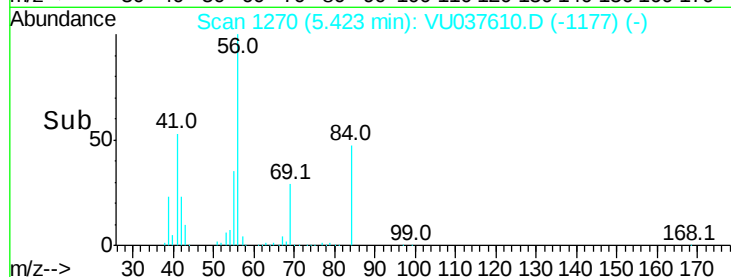
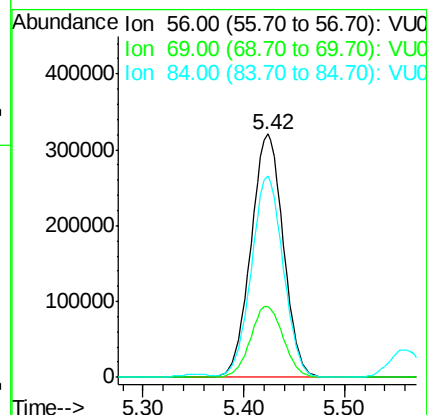
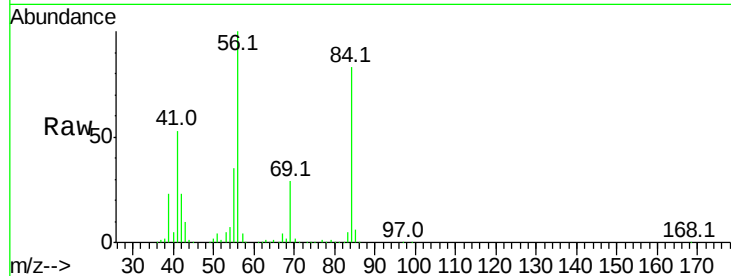




#29  
Cyclohexane  
Concen: 123.379 ug/L  
RT: 5.42 min Scan# 1270  
Delta R.T. -0.00 min  
Lab File: VU037610.D  
Acq: 09 Apr 2020 10:56

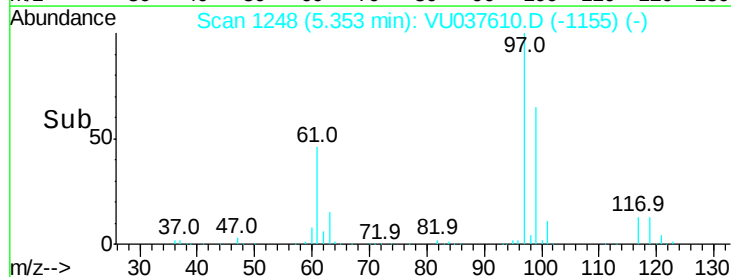
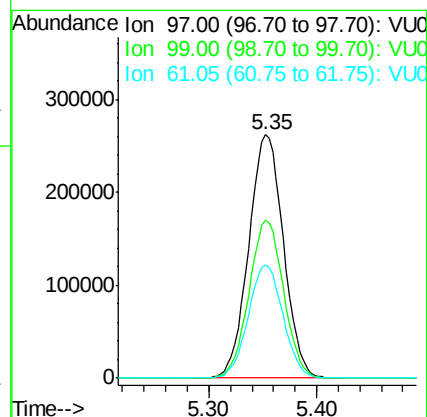
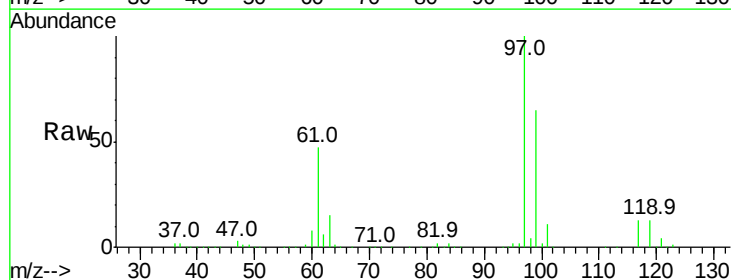
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD10034

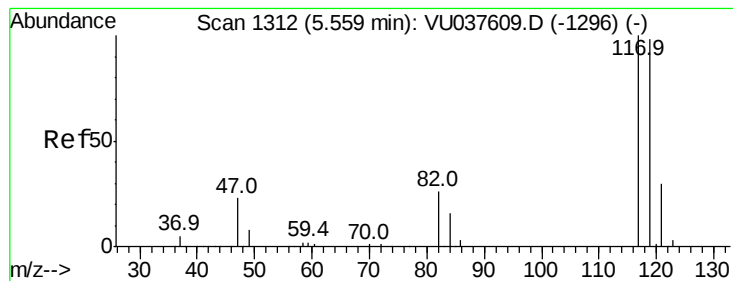
Tgt Ion: 56 Resp: 710489  
Ion Ratio Lower Upper  
56 100  
69 29.5 24.0 36.0  
84 81.7 66.3 99.5



#30  
1,1,1-Trichloroethane  
Concen: 100.580 ug/L  
RT: 5.35 min Scan# 1248  
Delta R.T. -0.00 min  
Lab File: VU037610.D  
Acq: 09 Apr 2020 10:56

Tgt Ion: 97 Resp: 585835  
Ion Ratio Lower Upper  
97 100  
99 64.7 51.9 77.9  
61 46.6 37.1 55.7





#31

Carbon tetrachloride

Concen: 100.317 ug/L

RT: 5.56 min Scan# 1312

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

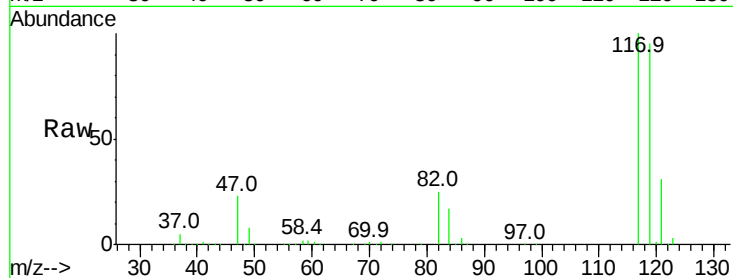
VSTD10034

Tgt Ion:117 Resp: 480906

Ion Ratio Lower Upper

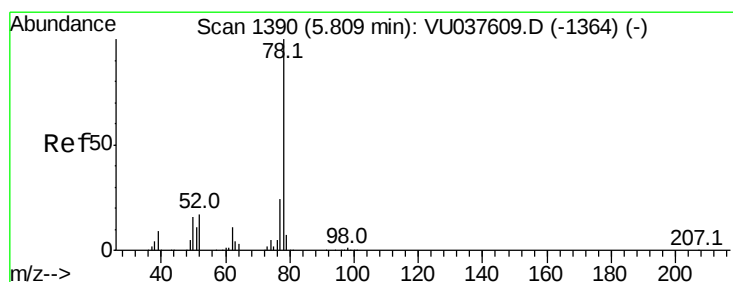
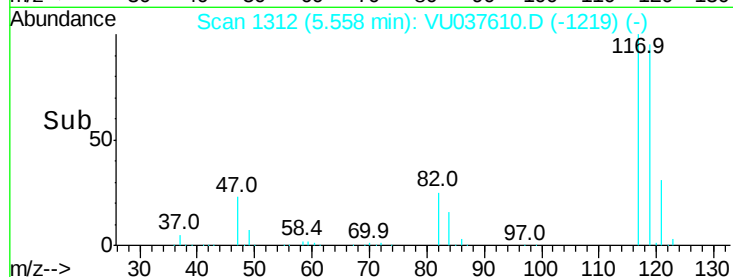
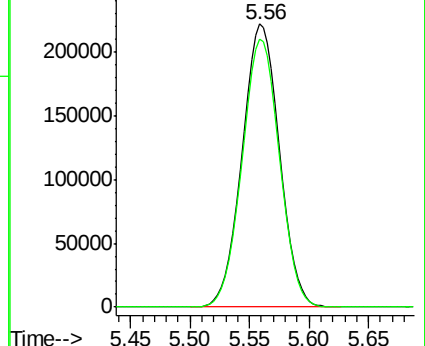
117 100

119 95.2 77.0 115.4



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 110.496 ug/L

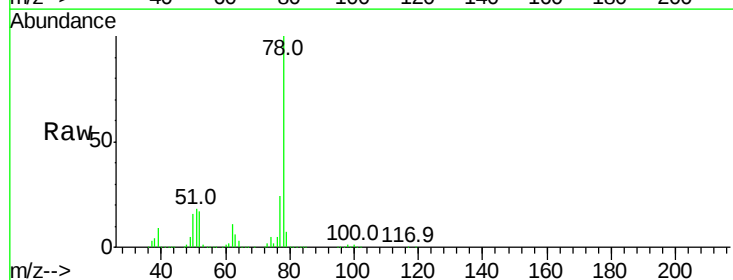
RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

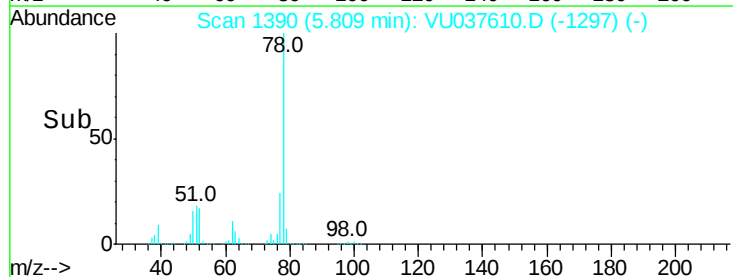
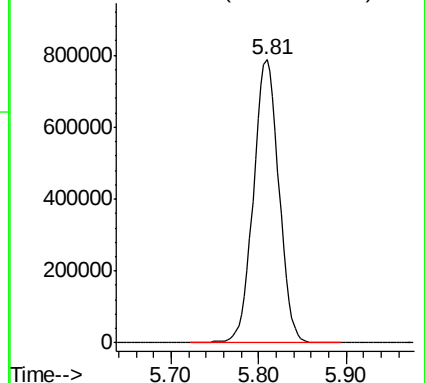
Lab File: VU037610.D

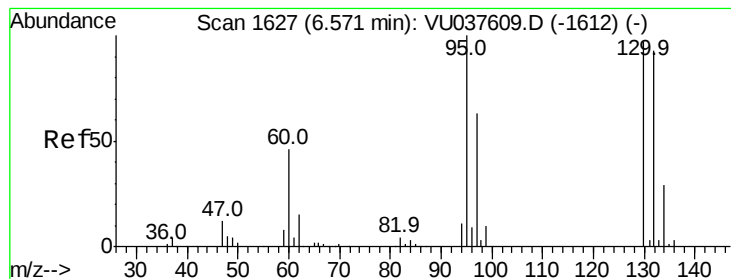
Acq: 09 Apr 2020 10:56

Tgt Ion: 78 Resp: 1590871



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 102.824 ug/L

RT: 6.57 min Scan# 1627

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD10034

Tgt Ion: 95 Resp: 387099

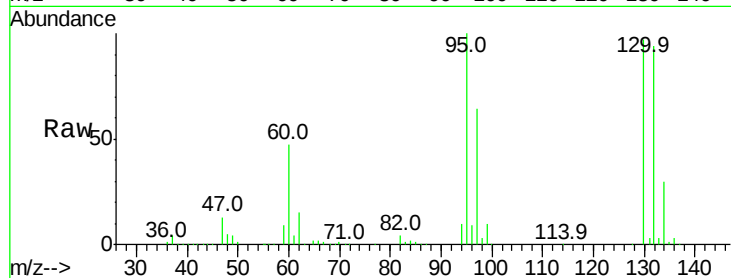
Ion Ratio Lower Upper

95 100

97 64.5 43.8 81.4

132 94.0 64.8 120.4

130 96.8 68.2 126.6

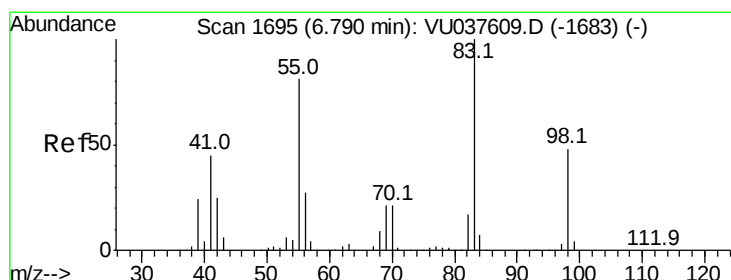
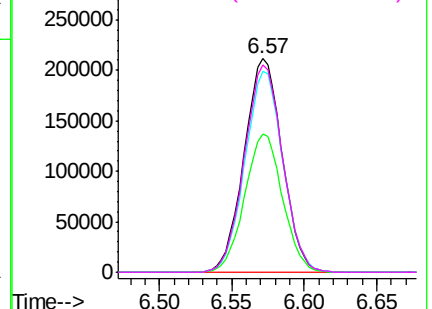
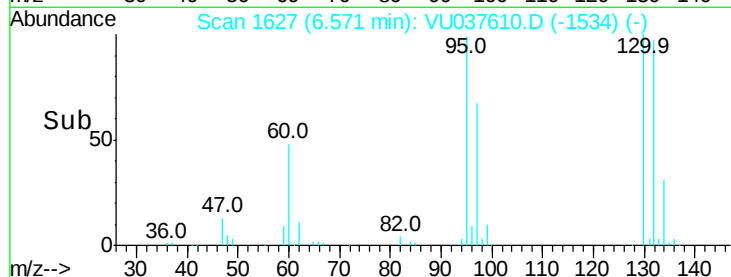


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 117.291 ug/L

RT: 6.79 min Scan# 1695

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

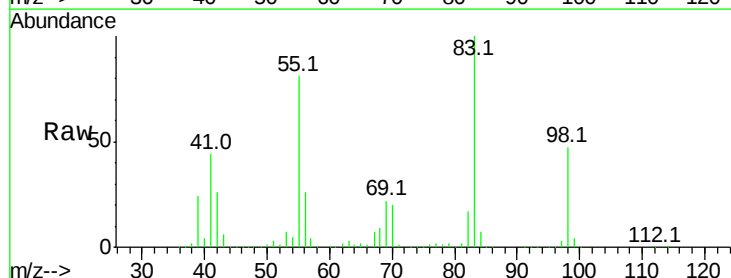
Tgt Ion: 83 Resp: 682254

Ion Ratio Lower Upper

83 100

55 79.5 64.6 96.8

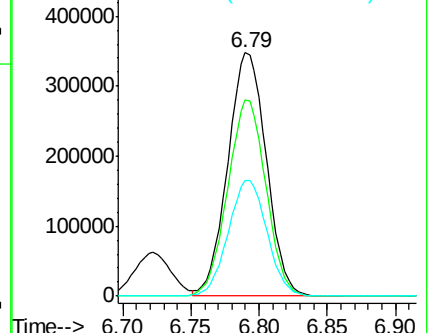
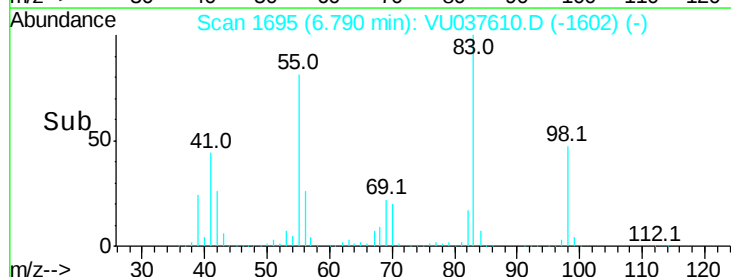
98 47.8 38.0 57.0

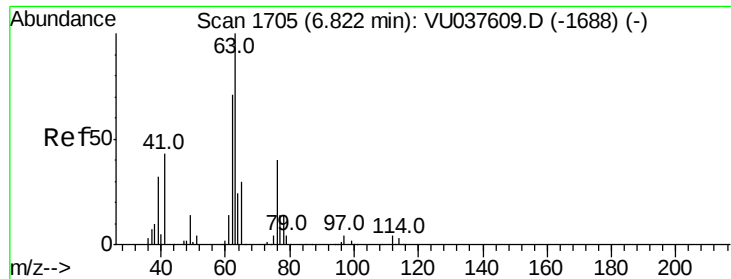


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

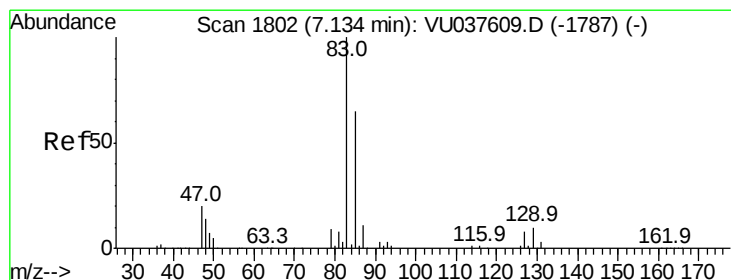
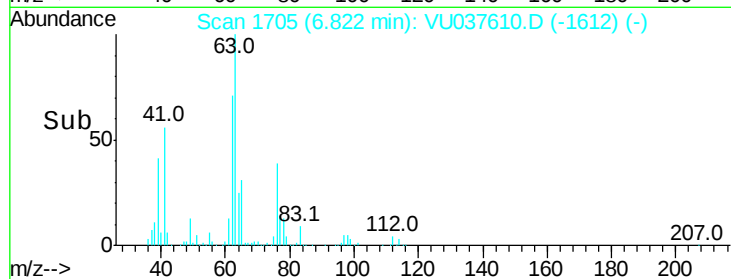
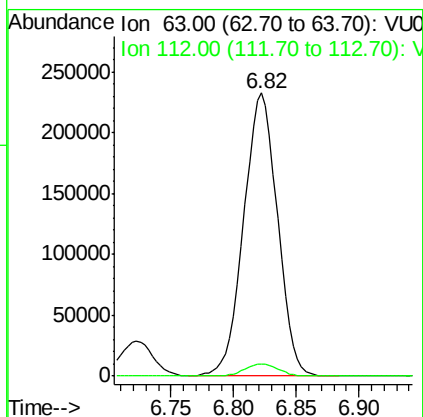
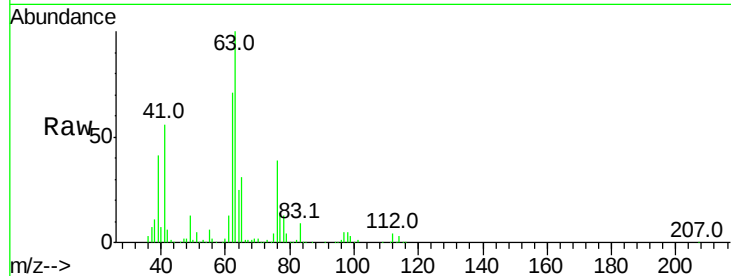




#37  
 1,2-Dichloropropane  
 Concen: 106.253 ug/L  
 RT: 6.82 min Scan# 1705  
 Delta R.T. -0.00 min  
 Lab File: VU037610.D  
 Acq: 09 Apr 2020 10:56

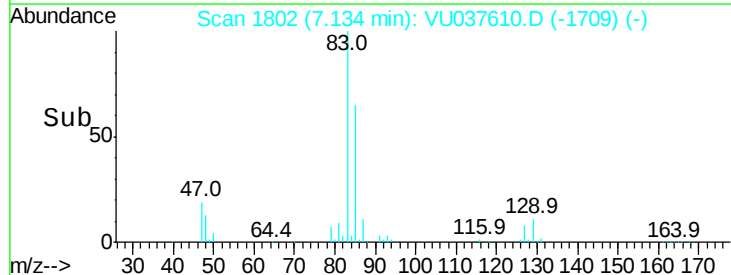
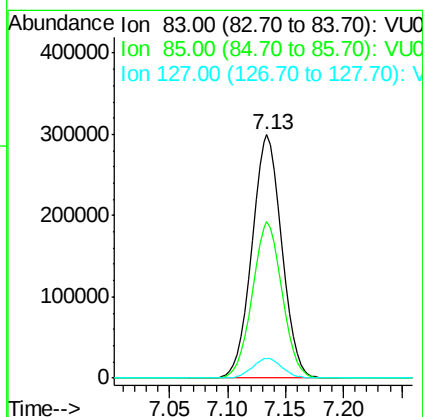
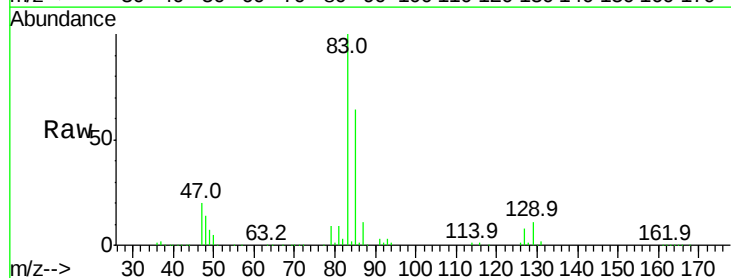
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD10034

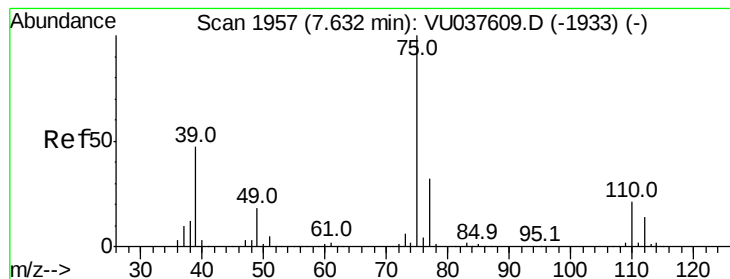
Tgt Ion: 63 Resp: 435871  
 Ion Ratio Lower Upper  
 63 100  
 112 4.2 3.4 5.0



#38  
 Bromodichloromethane  
 Concen: 100.611 ug/L  
 RT: 7.13 min Scan# 1802  
 Delta R.T. -0.00 min  
 Lab File: VU037610.D  
 Acq: 09 Apr 2020 10:56

Tgt Ion: 83 Resp: 536800  
 Ion Ratio Lower Upper  
 83 100  
 85 64.2 45.1 83.7  
 127 8.2 6.6 9.8



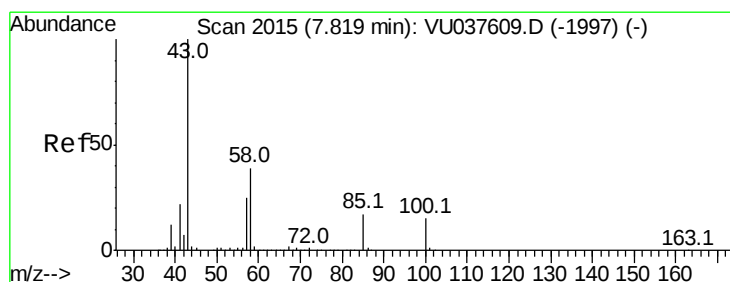
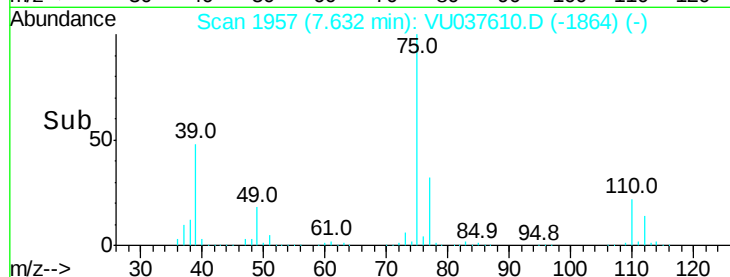
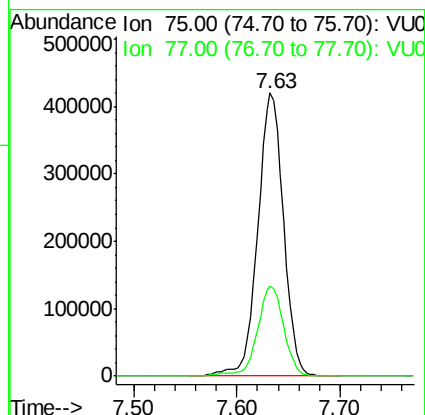
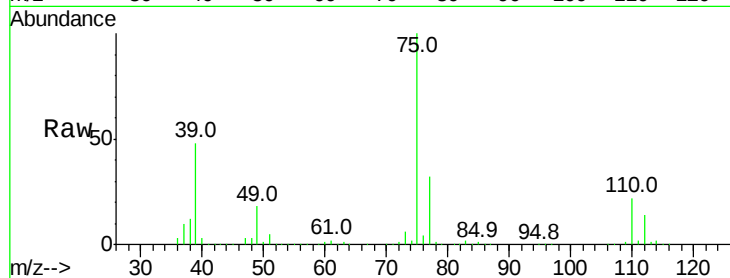


#39

cis-1,3-Dichloropropene  
 Concen: 112.913 ug/L  
 RT: 7.63 min Scan# 1957  
 Delta R.T. -0.00 min  
 Lab File: VU037610.D  
 Acq: 09 Apr 2020 10:56

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD10034

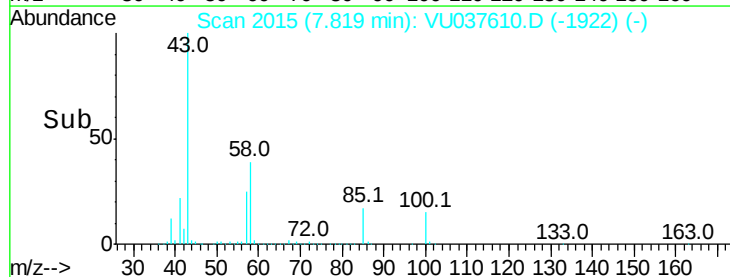
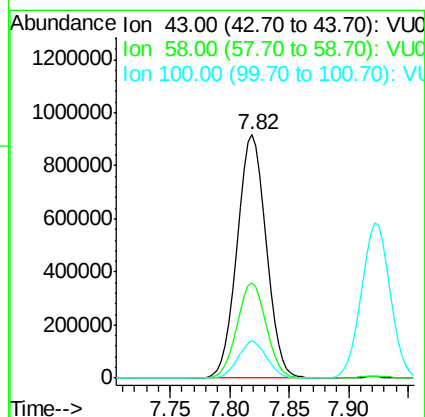
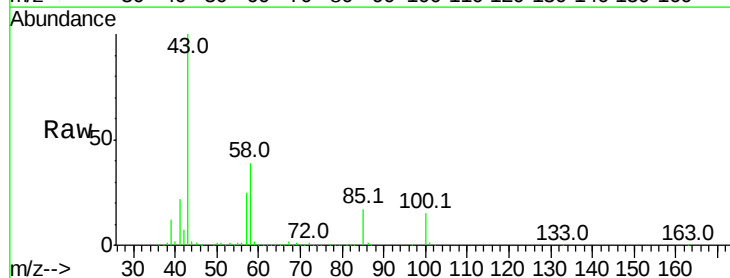
Tgt Ion: 75 Resp: 723466  
 Ion Ratio Lower Upper  
 75 100  
 77 31.8 22.1 41.1

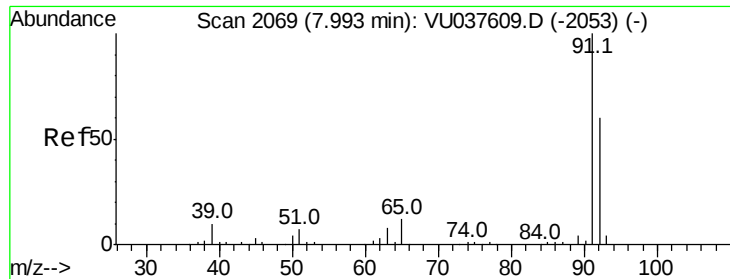


#40

4-Methyl-2-pentanone  
 Concen: 233.713 ug/L  
 RT: 7.82 min Scan# 1515  
 Delta R.T. -0.00 min  
 Lab File: VU037610.D  
 Acq: 09 Apr 2020 10:56

Tgt Ion: 43 Resp: 1555771  
 Ion Ratio Lower Upper  
 43 100  
 58 39.2 31.5 47.3  
 100 14.9 12.0 18.0





#42

Toluene

Concen: 107.655 ug/L

RT: 7.99 min Scan# 2069

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

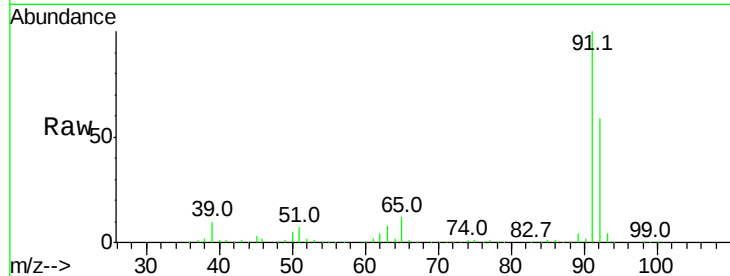
VSTD10034

Tgt Ion: 91 Resp: 1677303

Ion Ratio Lower Upper

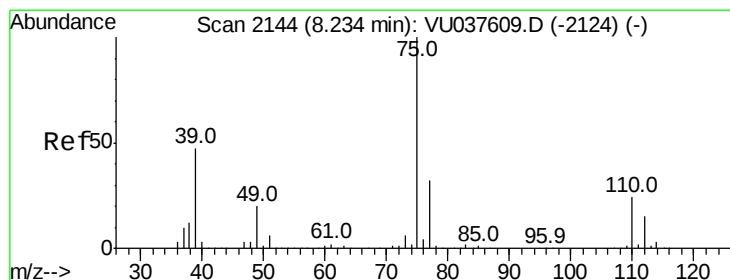
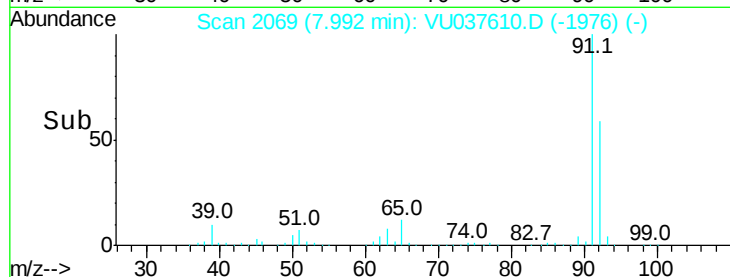
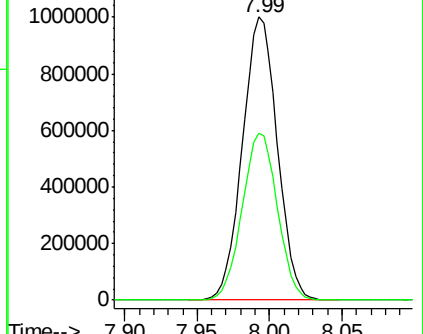
91 100

92 59.2 41.8 77.6



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 92.00 (91.70 to 92.70): VU0



#44

trans-1,3-Dichloropropene

Concen: 110.318 ug/L

RT: 8.23 min Scan# 2144

Delta R.T. -0.00 min

Lab File: VU037610.D

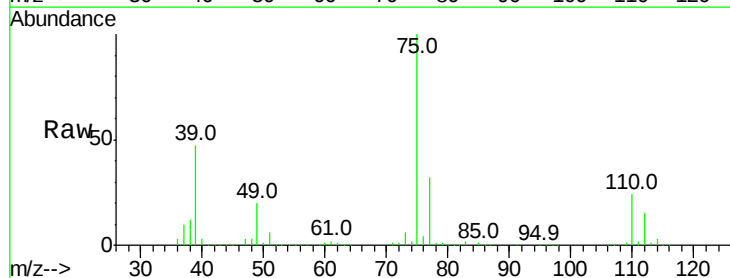
Acq: 09 Apr 2020 10:56

Tgt Ion: 75 Resp: 696077

Ion Ratio Lower Upper

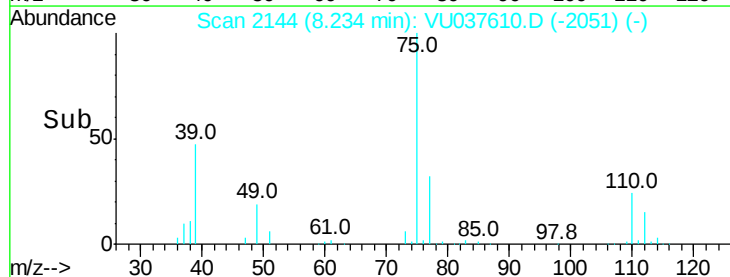
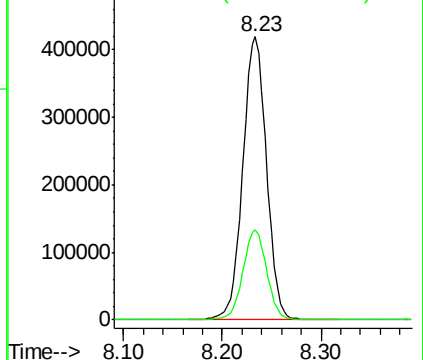
75 100

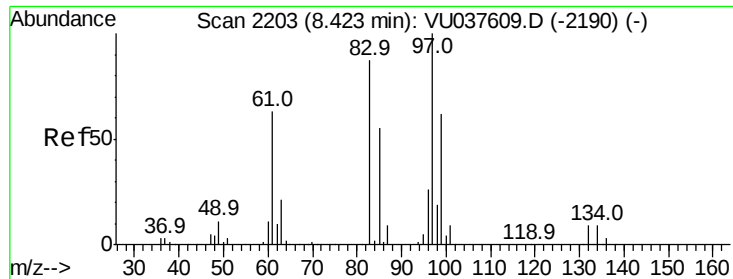
77 32.0 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

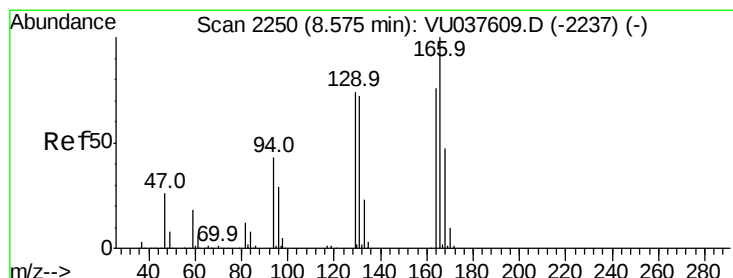
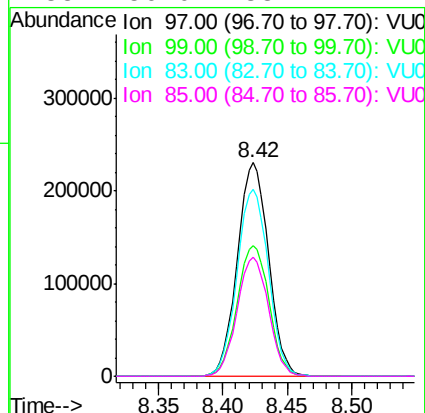
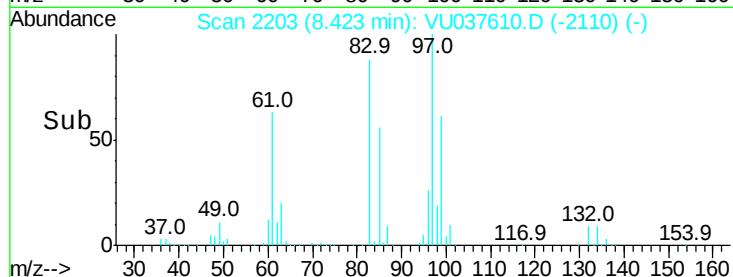
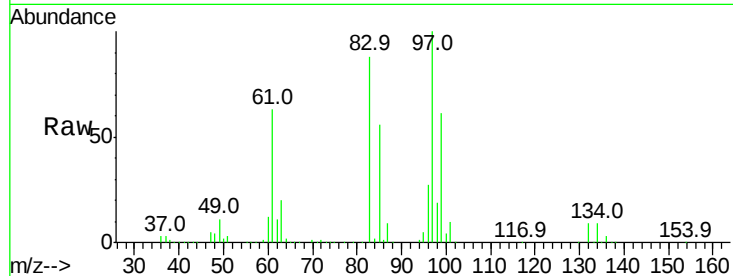




#45  
 1,1,2-Trichloroethane  
 Concen: 103.697 ug/L  
 RT: 8.42 min Scan# 2203  
 Delta R.T. -0.00 min  
 Lab File: VU037610.D  
 Acq: 09 Apr 2020 10:56

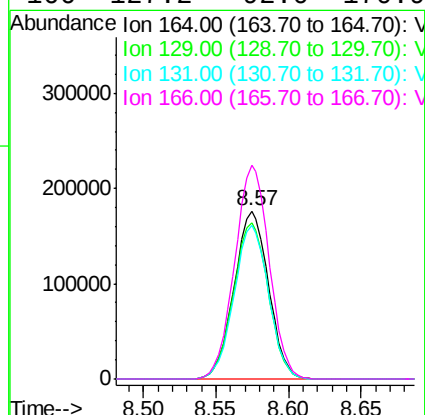
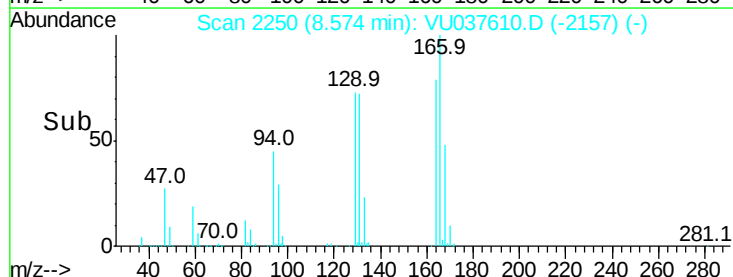
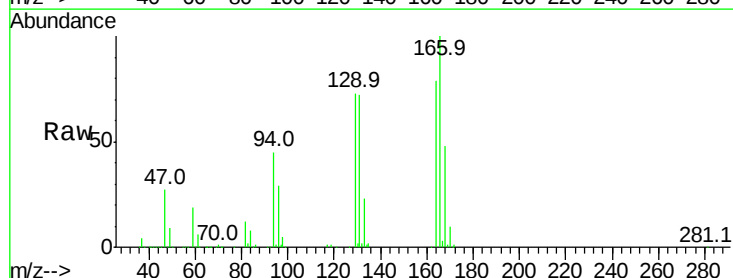
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD10034

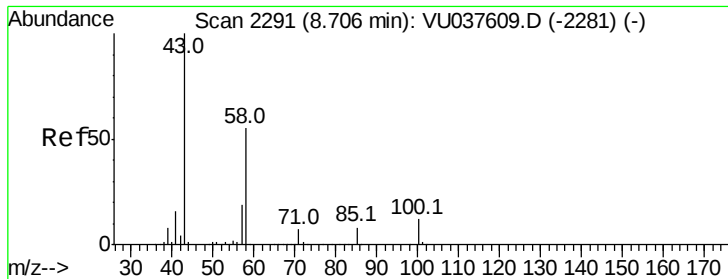
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 388384 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 61.4  | 43.6  | 81.0   |
| 83       | 87.8  | 61.2  | 113.8  |
| 85       | 56.0  | 38.4  | 71.4   |



#46  
 Tetrachloroethene  
 Concen: 114.722 ug/L  
 RT: 8.57 min Scan# 2250  
 Delta R.T. -0.00 min  
 Lab File: VU037610.D  
 Acq: 09 Apr 2020 10:56

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 289986 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 93.3  | 68.0  | 126.2  |
| 131      | 91.2  | 65.8  | 122.2  |
| 166      | 127.2 | 92.0  | 170.9  |





#48

2-Hexanone

Concen: 234.378 ug/L

RT: 8.71 min Scan# 2291

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD10034

Tgt Ion: 43 Resp: 1213305

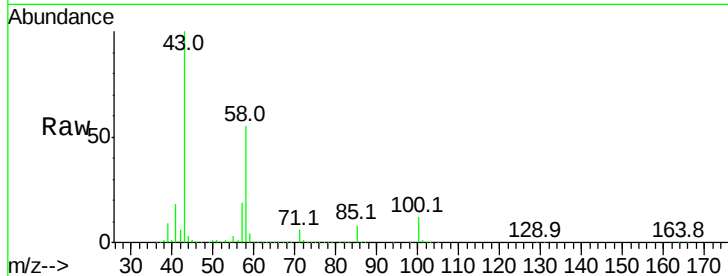
Ion Ratio Lower Upper

43 100

58 55.6 44.0 66.0

57 19.5 15.2 22.8

100 12.0 9.4 14.0

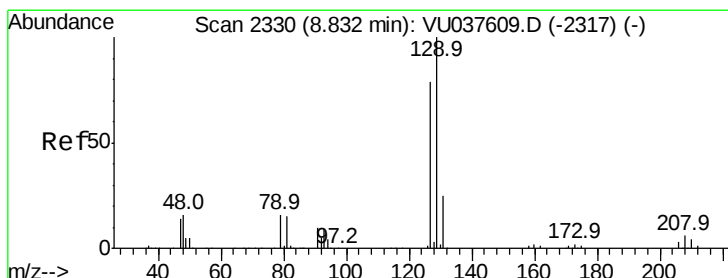
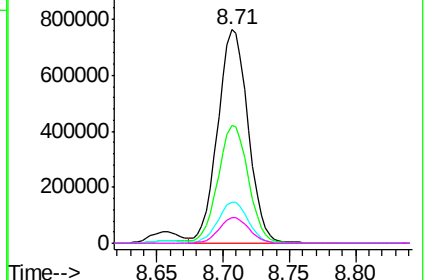
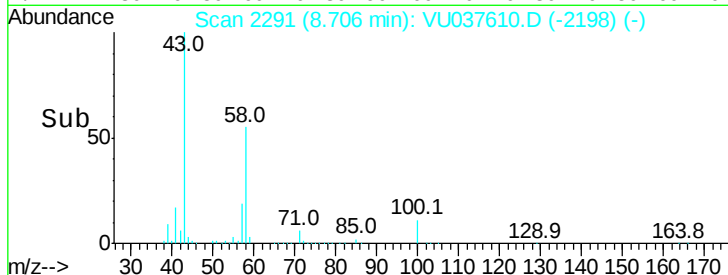


Abundance Ion 43.00 (42.70 to 43.70): VU037610.D (-2198) (-)

Ion 58.00 (57.70 to 58.70): VU037610.D (-2198) (-)

Ion 57.00 (56.70 to 57.70): VU037610.D (-2198) (-)

Ion 100.00 (99.70 to 100.70): VU037610.D (-2198) (-)



#49

Dibromochloromethane

Concen: 101.230 ug/L

RT: 8.83 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VU037610.D

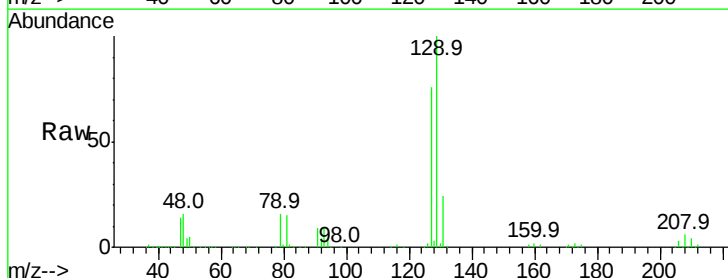
Acq: 09 Apr 2020 10:56

Tgt Ion: 129 Resp: 422888

Ion Ratio Lower Upper

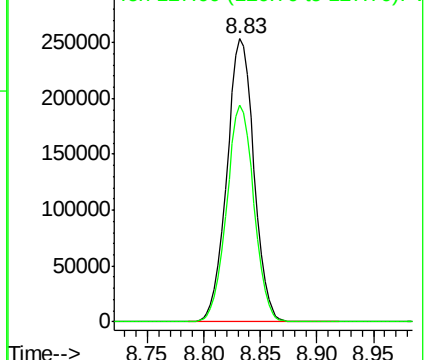
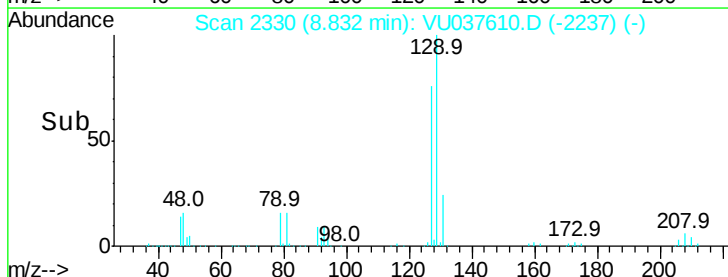
129 100

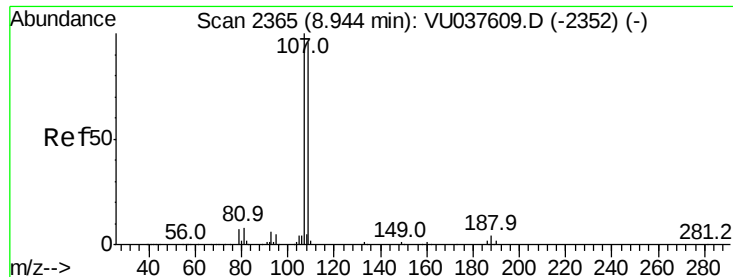
127 76.4 55.2 102.6



Abundance Ion 129.00 (128.70 to 129.70): VU037610.D (-2237) (-)

Ion 127.00 (126.70 to 127.70): VU037610.D (-2237) (-)

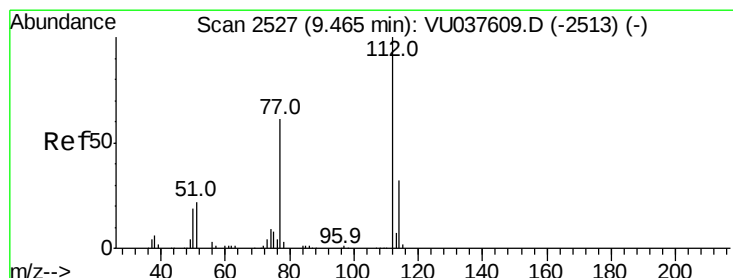
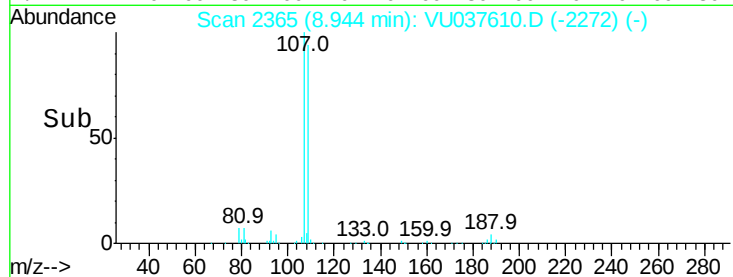
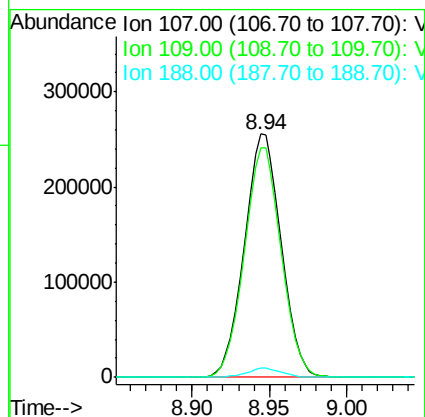
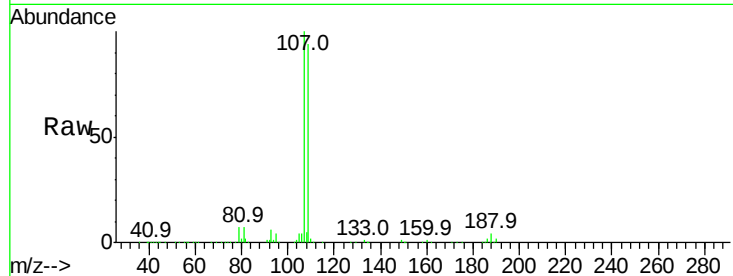




#50  
1,2-Dibromoethane  
Concen: 102.853 ug/L  
RT: 8.94 min Scan# 2365  
Delta R.T. -0.00 min  
Lab File: VU037610.D  
Acq: 09 Apr 2020 10:56

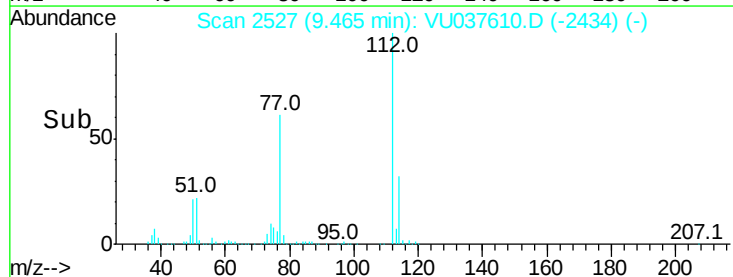
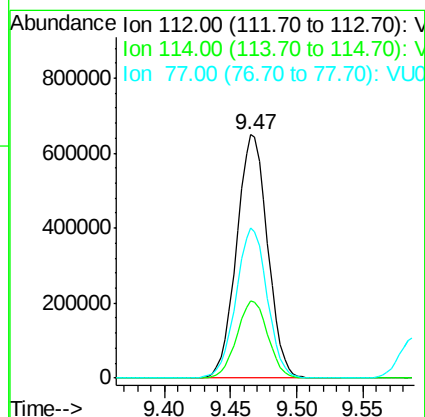
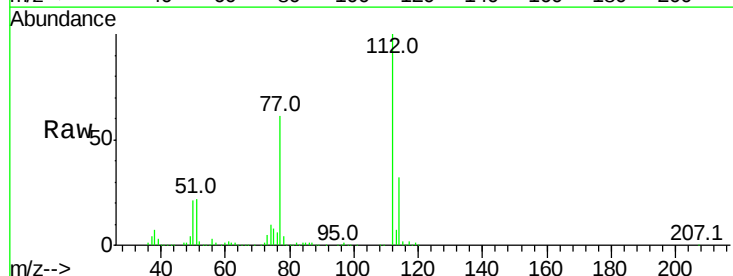
Instrument :  
MSVOA\_U  
ClientSampleId :  
VSTD10034

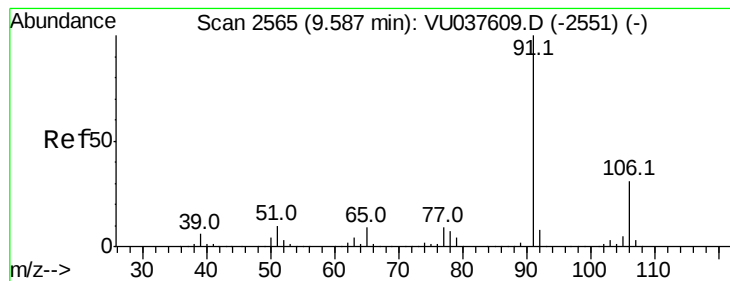
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 94.1  | 67.3  | 125.1 |
| 188     | 3.7   | 2.9   | 4.3   |



#51  
Chlorobenzene  
Concen: 108.957 ug/L  
RT: 9.47 min Scan# 2527  
Delta R.T. -0.00 min  
Lab File: VU037610.D  
Acq: 09 Apr 2020 10:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 31.6  | 22.4  | 41.6  |
| 77      | 61.4  | 49.2  | 73.8  |





#52

Ethylbenzene

Concen: 106.809 ug/L

RT: 9.59 min Scan# 2565

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

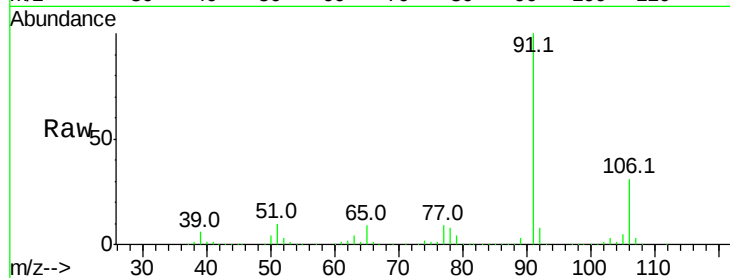
VSTD10034

Tgt Ion: 91 Resp: 1881911

Ion Ratio Lower Upper

91 100

106 30.8 21.6 40.0



Abundance Ion 91.00 (90.70 to 91.70): VU037610.D (-2551) (-)

Ion 106.00 (105.70 to 106.70): VU037610.D (-2551) (-)

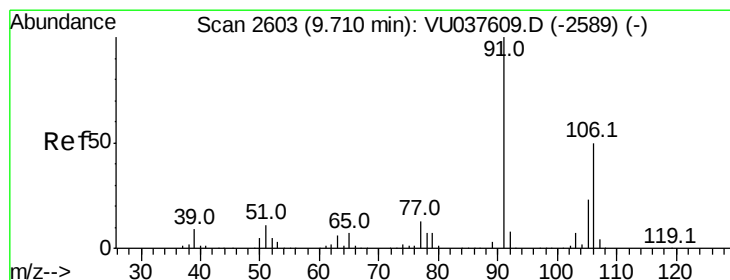
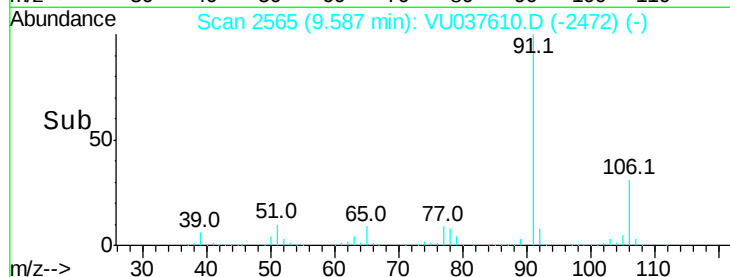
9.59

1000000

500000

0

Time-->



#53

m,p-Xylene

Concen: 109.340 ug/L

RT: 9.71 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VU037610.D

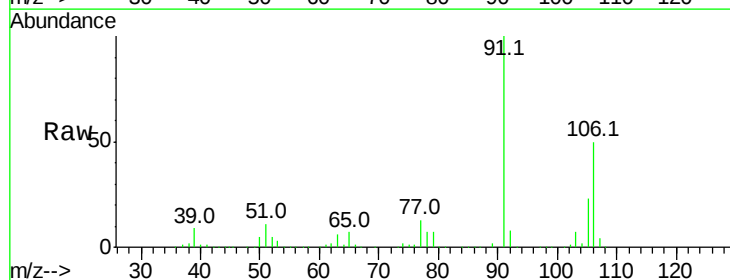
Acq: 09 Apr 2020 10:56

Tgt Ion: 106 Resp: 718594

Ion Ratio Lower Upper

106 100

91 201.3 140.8 261.6



Abundance Ion 106.00 (105.70 to 106.70): VU037610.D (-2603) (-)

Ion 91.00 (90.70 to 91.70): VU037610.D (-2603) (-)

9.71

1000000

800000

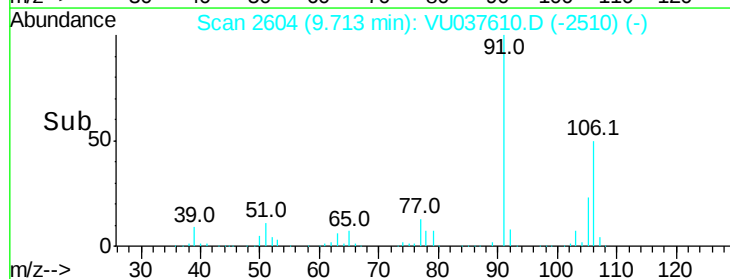
600000

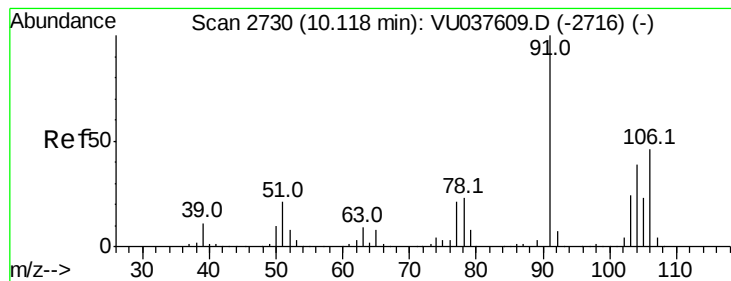
400000

200000

0

Time-->





#54

o-xylene

Concen: 112.259 ug/L

RT: 10.12 min Scan# 2730

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

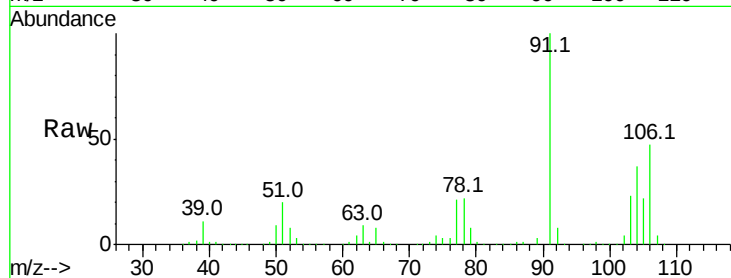
VSTD10034

Tgt Ion:106 Resp: 711087

Ion Ratio Lower Upper

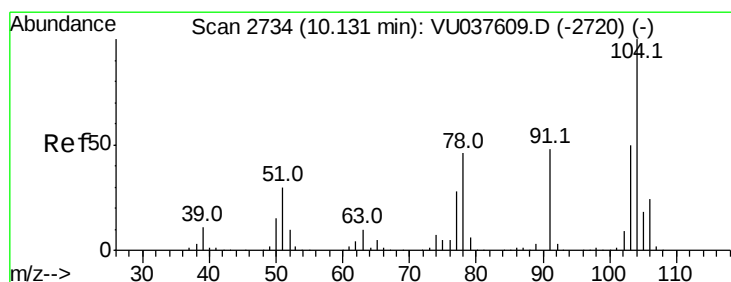
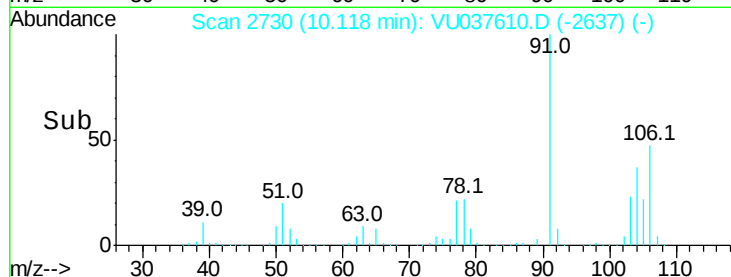
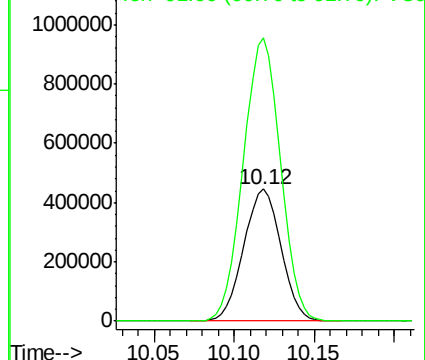
106 100

91 214.3 151.1 280.5



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 111.184 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU037610.D

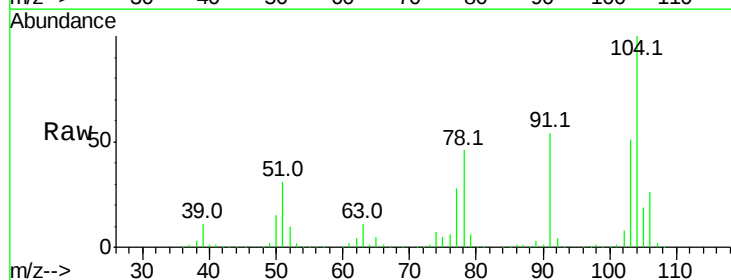
Acq: 09 Apr 2020 10:56

Tgt Ion:104 Resp: 1247052

Ion Ratio Lower Upper

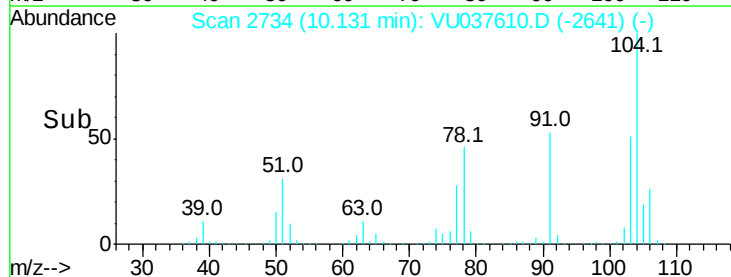
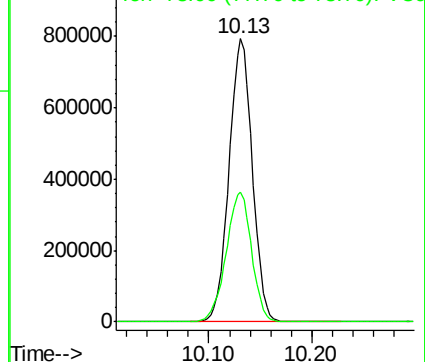
104 100

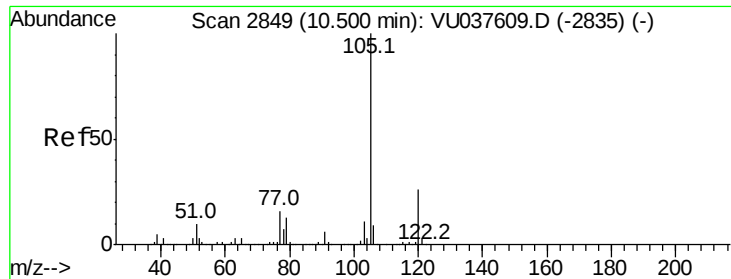
78 45.9 32.0 59.4



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 108.143 ug/L

RT: 10.50 min Scan# 2849

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD10034

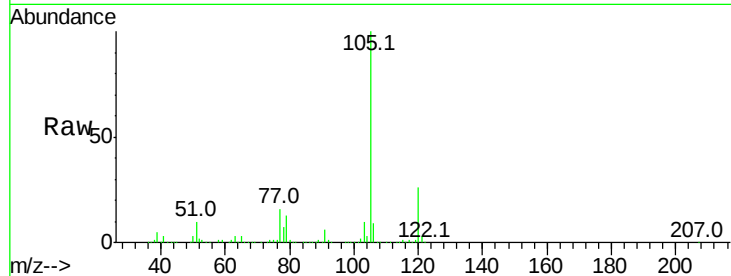
Tgt Ion:105 Resp: 1857294

Ion Ratio Lower Upper

105 100

120 25.8 20.7 31.1

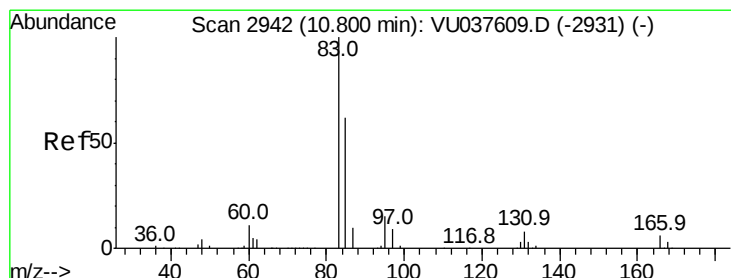
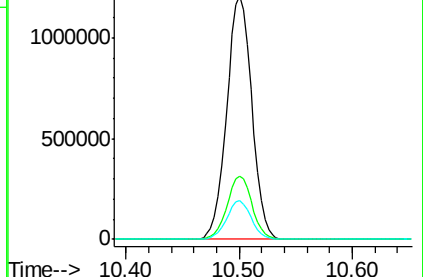
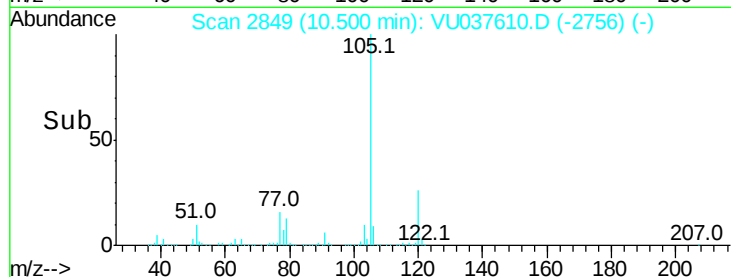
77 15.6 12.7 19.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 104.173 ug/L

RT: 10.80 min Scan# 2942

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

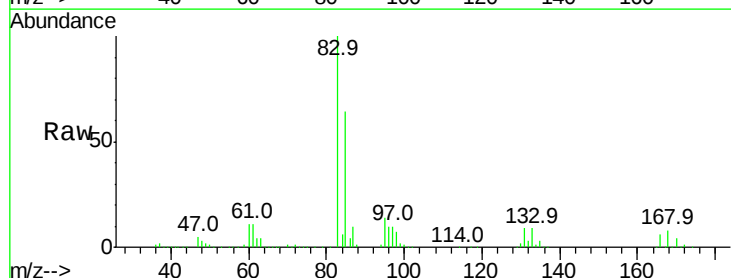
Tgt Ion: 83 Resp: 703369

Ion Ratio Lower Upper

83 100

85 64.4 44.2 82.2

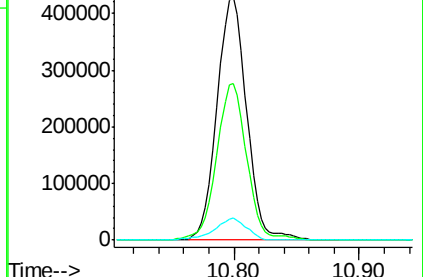
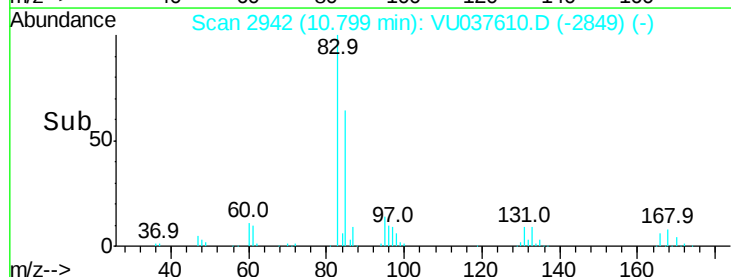
131 8.9 7.6 11.4

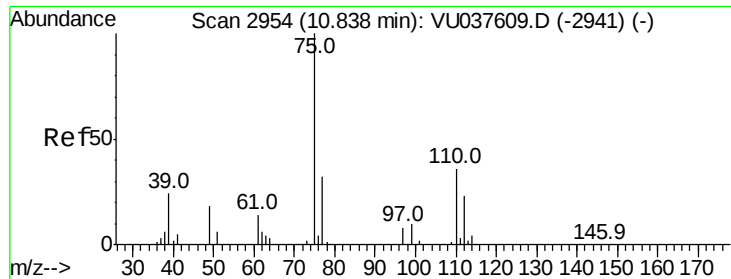


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 112.506 ug/L

RT: 10.84 min Scan# 2954

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

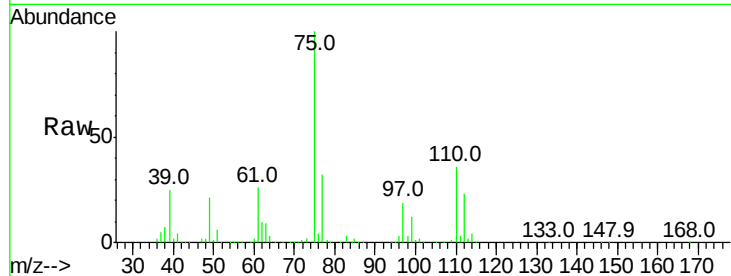
VSTD10034

Tgt Ion: 75 Resp: 593309

Ion Ratio Lower Upper

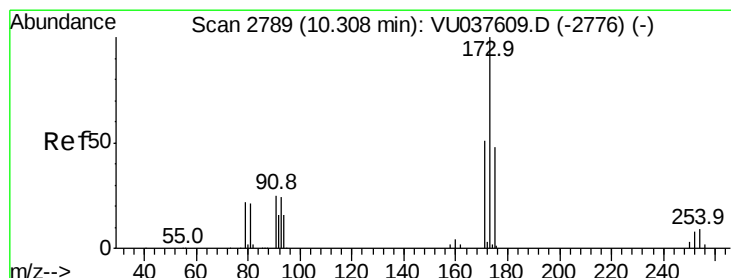
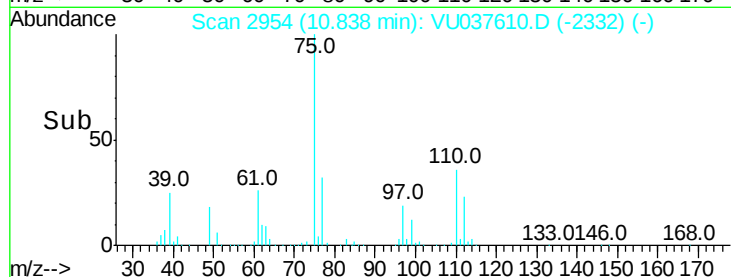
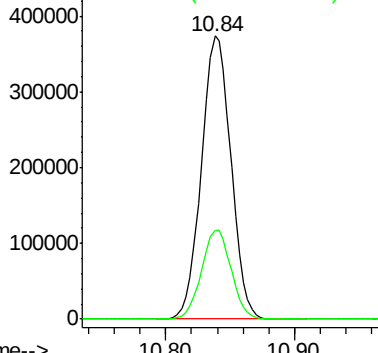
75 100

77 31.6 25.6 38.4



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#61

Bromoform

Concen: 107.500 ug/L

RT: 10.31 min Scan# 2789

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

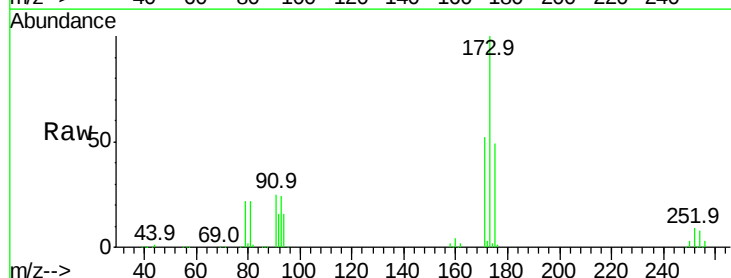
Tgt Ion: 173 Resp: 336722

Ion Ratio Lower Upper

173 100

175 48.7 38.7 58.1

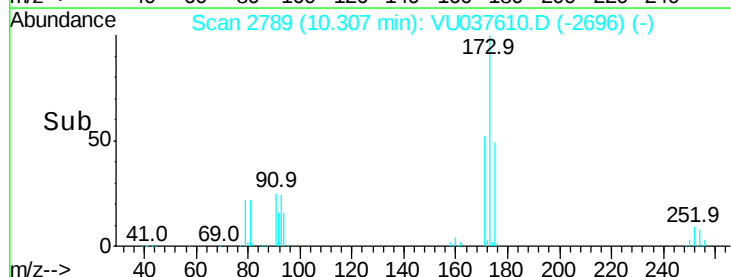
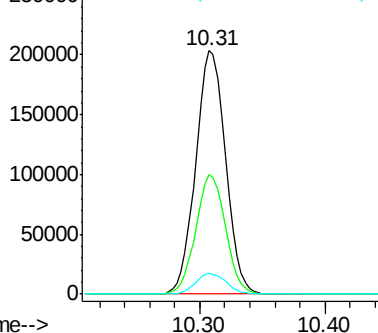
254 8.6 7.0 10.6

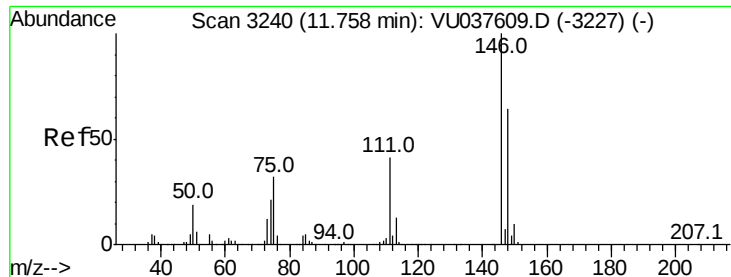


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V





#62

1,3-Dichlorobenzene

Concen: 105.666 ug/L

RT: 11.76 min Scan# 3240

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD10034

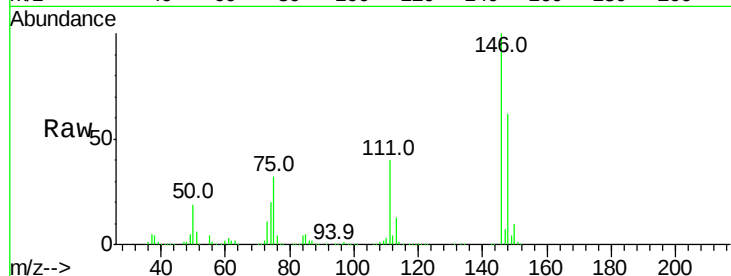
Tgt Ion:146 Resp: 835994

Ion Ratio Lower Upper

146 100

111 40.5 28.6 53.0

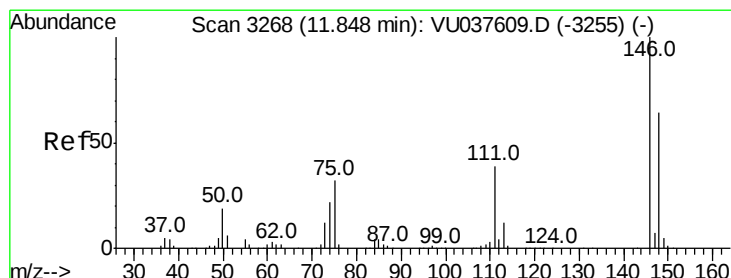
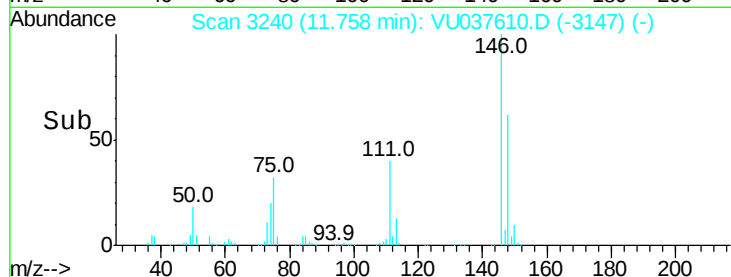
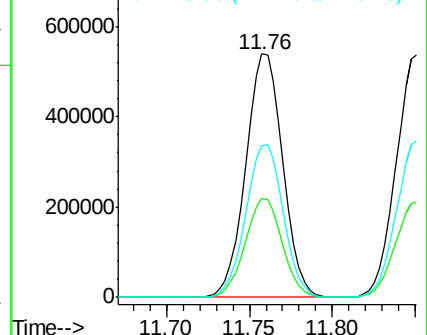
148 62.4 44.7 82.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 104.614 ug/L

RT: 11.85 min Scan# 3269

Delta R.T. 0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

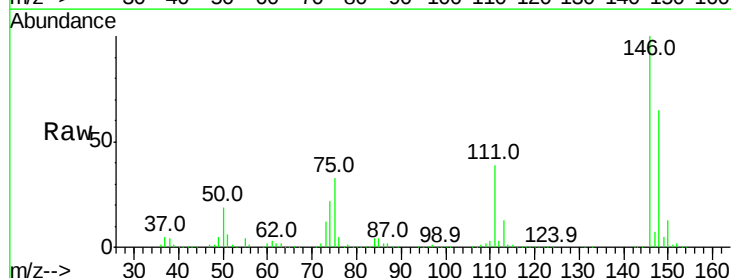
Tgt Ion:146 Resp: 835351

Ion Ratio Lower Upper

146 100

111 39.3 27.2 50.6

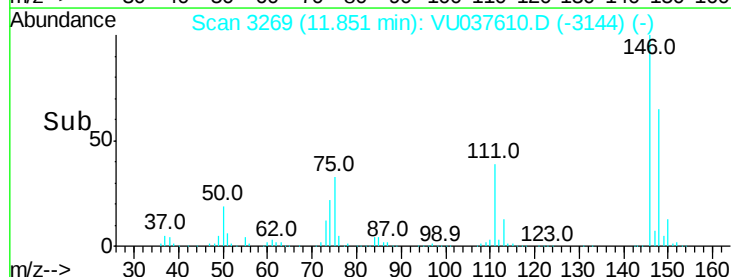
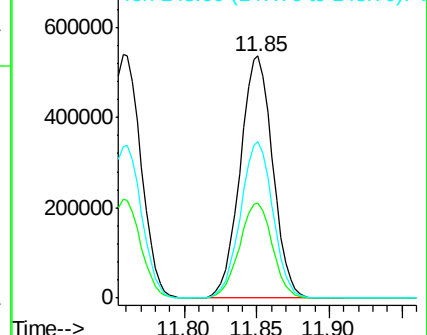
148 64.6 44.9 83.3

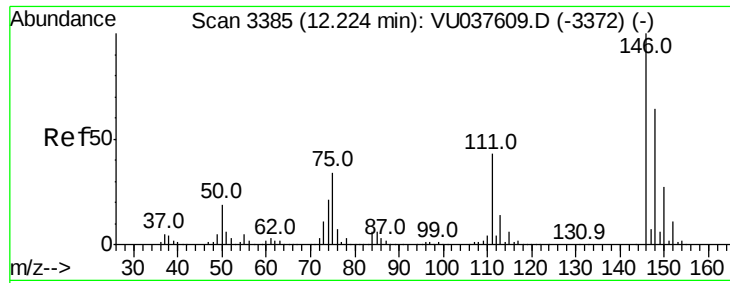


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 104.762 ug/L

RT: 12.23 min Scan# 3386

Delta R.T. 0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD10034

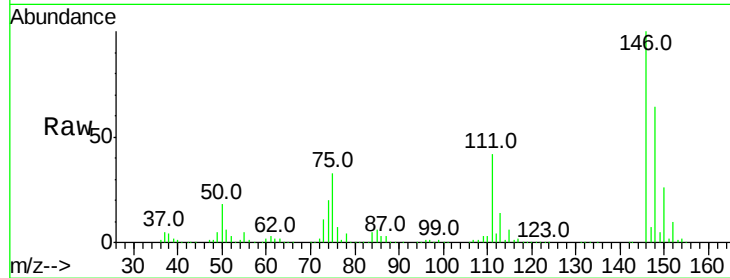
Tgt Ion:146 Resp: 820687

Ion Ratio Lower Upper

146 100

111 41.8 34.2 51.4

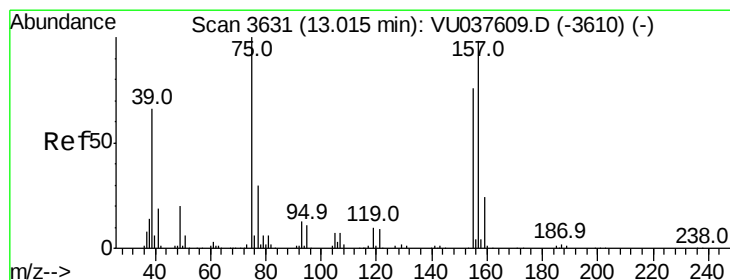
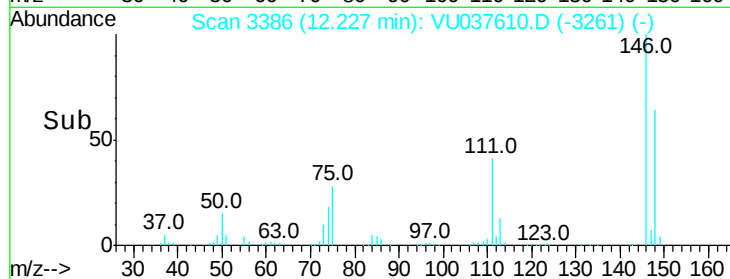
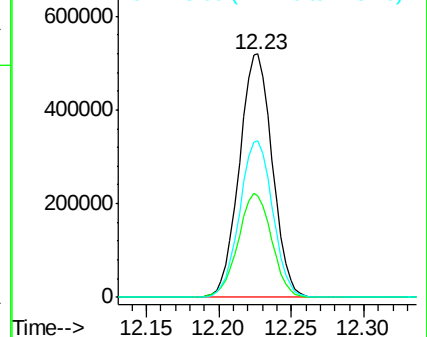
148 64.2 50.9 76.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 103.094 ug/L

RT: 13.01 min Scan# 3631

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

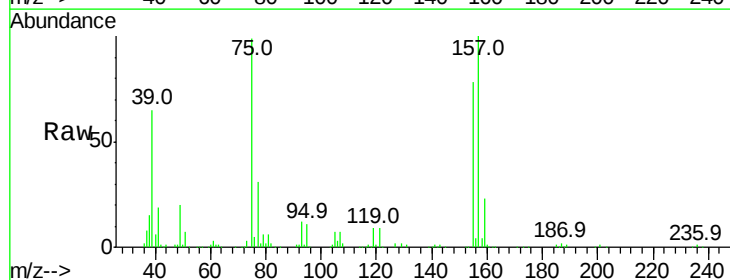
Tgt Ion: 75 Resp: 193720

Ion Ratio Lower Upper

75 100

155 79.6 60.9 91.3

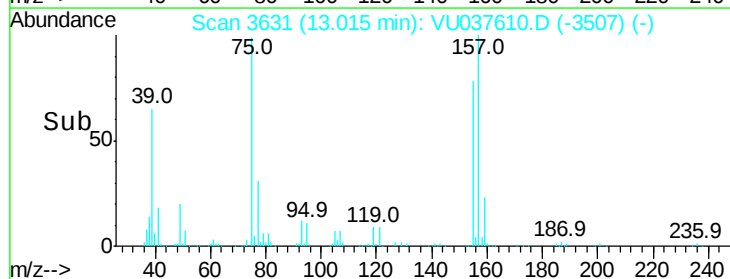
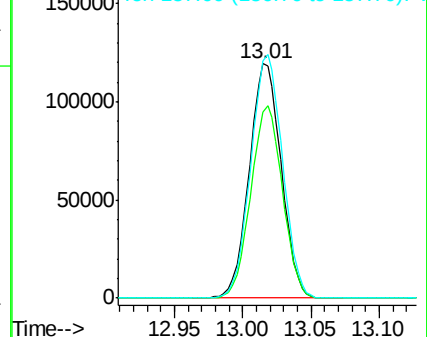
157 101.4 78.8 118.2

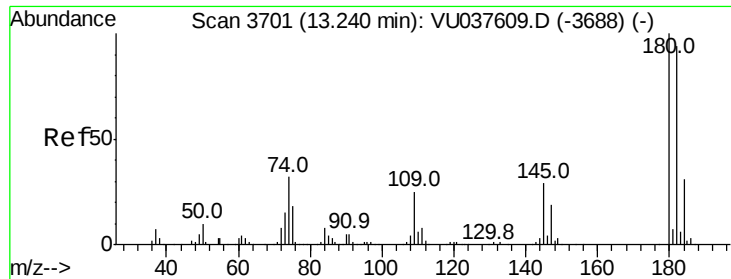


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

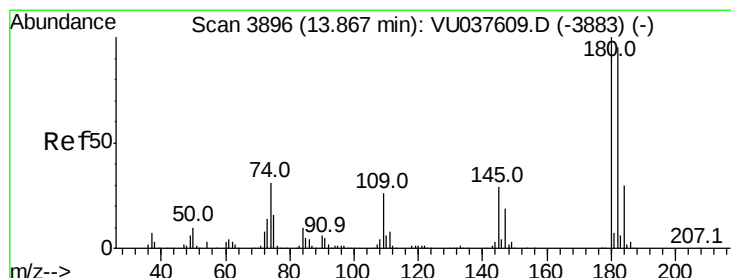
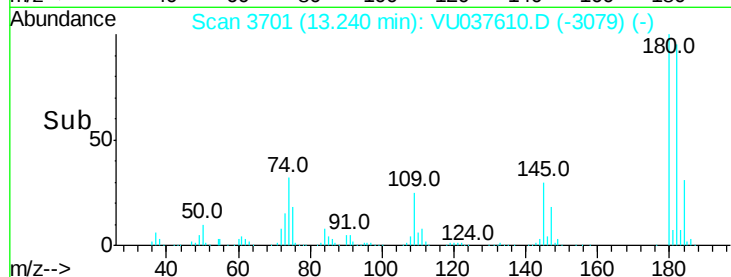
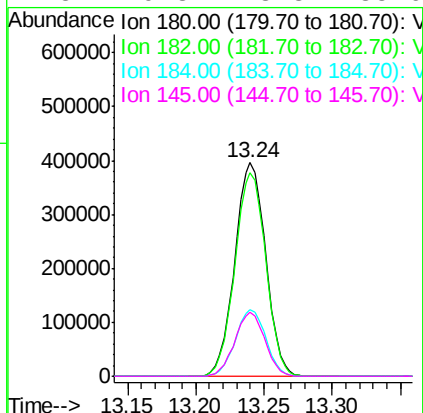
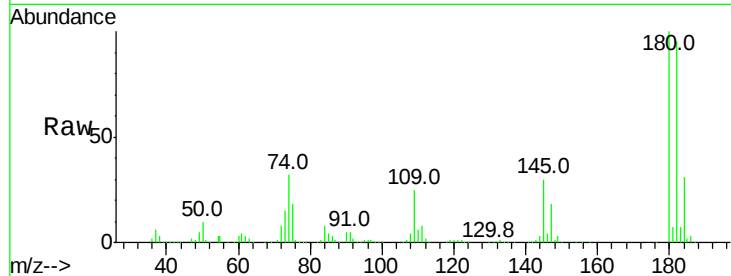




#67  
 1,3,5-Trichlorobenzene  
 Concen: 113.135 ug/L  
 RT: 13.24 min Scan# 3701  
 Delta R.T. -0.00 min  
 Lab File: VU037610.D  
 Acq: 09 Apr 2020 10:56

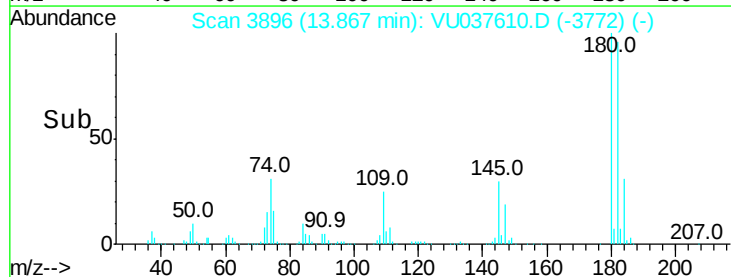
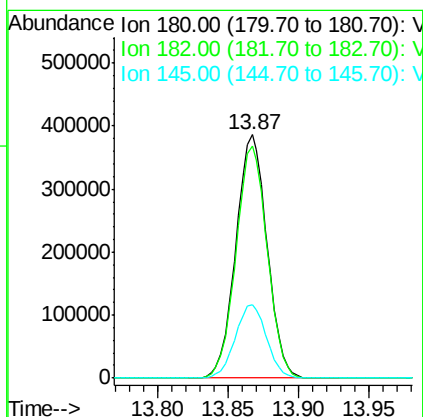
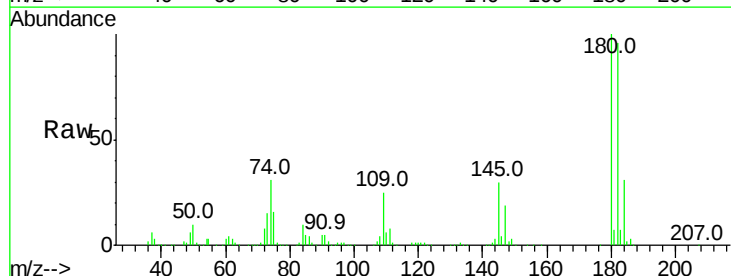
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VSTD10034

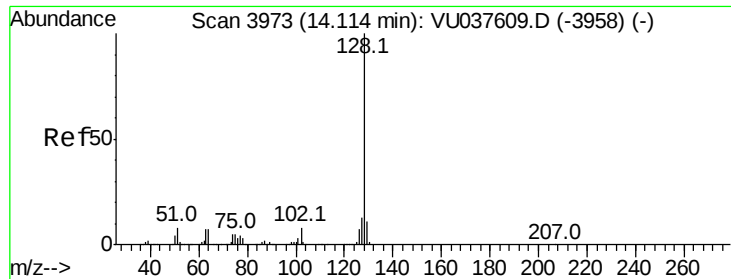
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 621285 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.6  | 76.2  | 114.4  |
| 184      | 30.7  | 24.7  | 37.1   |
| 145      | 29.3  | 23.8  | 35.6   |



#68  
 1,2,4-trichlorobenzene  
 Concen: 114.323 ug/L  
 RT: 13.87 min Scan# 3896  
 Delta R.T. -0.00 min  
 Lab File: VU037610.D  
 Acq: 09 Apr 2020 10:56

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 598495 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.3  | 76.5  | 114.7  |
| 145      | 30.3  | 23.8  | 35.6   |





#69

Naphthalene

Concen: 96.046 ug/L

RT: 14.11 min Scan# 3973

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

Instrument :

MSVOA\_U

ClientSampleId :

VSTD10034

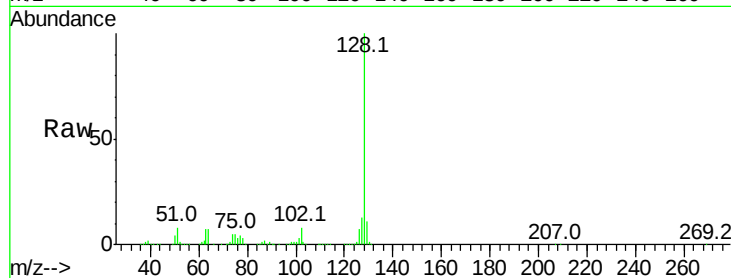
Tgt Ion:128 Resp: 2130210

Ion Ratio Lower Upper

128 100

127 13.1 10.5 15.7

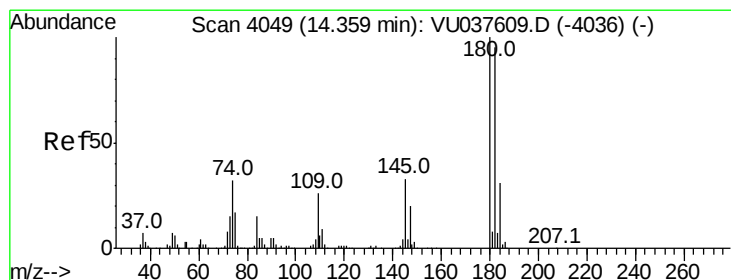
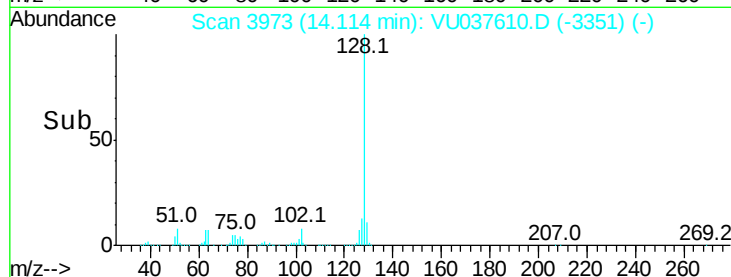
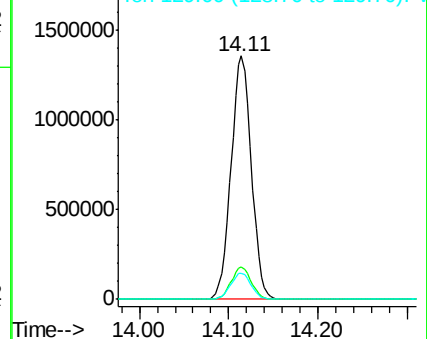
129 10.8 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 111.624 ug/L

RT: 14.36 min Scan# 4049

Delta R.T. -0.00 min

Lab File: VU037610.D

Acq: 09 Apr 2020 10:56

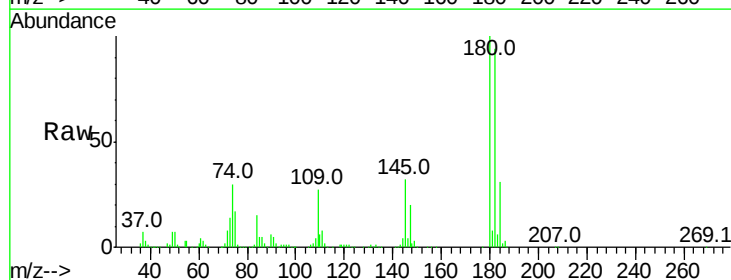
Tgt Ion:180 Resp: 590338

Ion Ratio Lower Upper

180 100

182 94.5 75.6 113.4

145 31.8 25.8 38.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

