

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY091119\  
 Data File : VY000007.D  
 Acq On : 11 Sep 2019 18:27  
 Operator : SY/MD  
 Sample : VSTDICC150  
 Misc : 5.00g/5.00ml/MSVOA\_Y/SOIL  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDICC150

Quant Time: Sep 12 08:58:26 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y091119S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 12 08:42:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.79  | 168  | 158489   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 289371   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 248383   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 105888   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |        |         |      |
|---------------------------|--------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.14   | 65  | 235602   | 134.65 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 269.30% |      |
| 35) Dibromofluoromethane  | 7.72   | 113 | 228045   | 133.64 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 267.28% |      |
| 50) Toluene-d8            | 10.18  | 98  | 987024   | 145.74 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 291.48% |      |
| 62) 4-Bromofluorobenzene  | 12.48  | 95  | 328040   | 134.66 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =      | 269.32% |      |

## Target Compounds

|                               |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.90 | 85  | 149833  | 167.891 | ug/l | 99     |
| 3) Chloromethane              | 2.11 | 50  | 198500  | 176.285 | ug/l | 97     |
| 4) Vinyl Chloride             | 2.25 | 62  | 237753  | 175.883 | ug/l | 100    |
| 5) Bromomethane               | 2.61 | 94  | 135560  | 183.199 | ug/l | 95     |
| 6) Chloroethane               | 2.77 | 64  | 160785  | 195.957 | ug/l | 97     |
| 7) Trichlorofluoromethane     | 3.11 | 101 | 300074  | 276.899 | ug/l | 96     |
| 8) Diethyl Ether              | 3.53 | 74  | 121479  | 160.262 | ug/l | 97     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.89 | 101 | 208809  | 150.396 | ug/l | 99     |
| 10) Methyl Iodide             | 4.08 | 142 | 259230  | 149.334 | ug/l | 98     |
| 11) Tert butyl alcohol        | 4.98 | 59  | 110772  | 774.228 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 3.86 | 96  | 196282  | 148.942 | ug/l | 92     |
| 13) Acrolein                  | 3.73 | 56  | 99719   | 702.143 | ug/l | 99     |
| 14) Allyl chloride            | 4.47 | 41  | 303040  | 116.590 | ug/l | 98     |
| 15) Acrylonitrile             | 5.17 | 53  | 378050  | 842.645 | ug/l | 98     |
| 16) Acetone                   | 3.95 | 43  | 276607  | 592.768 | ug/l | 95     |
| 17) Carbon Disulfide          | 4.18 | 76  | 392397  | 141.816 | ug/l | 100    |
| 18) Methyl Acetate            | 4.48 | 43  | 162014  | 141.674 | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 5.23 | 73  | 563377  | 201.215 | ug/l | 96     |
| 20) Methylene Chloride        | 4.71 | 84  | 228309  | 148.712 | ug/l | 93     |
| 21) trans-1,2-Dichloroethene  | 5.21 | 96  | 214301  | 158.666 | ug/l | 91     |
| 22) Diisopropyl ether         | 6.12 | 45  | 664933  | 128.313 | ug/l | 94     |
| 23) Vinyl Acetate             | 6.06 | 43  | 2262747 | 683.094 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 6.02 | 63  | 399934  | 141.144 | ug/l | 99     |
| 25) 2-Butanone                | 6.99 | 43  | 446527  | 699.791 | ug/l | 98     |
| 26) 2,2-Dichloropropane       | 6.98 | 77  | 334467  | 176.754 | ug/l | 98     |
| 27) cis-1,2-Dichloroethene    | 6.99 | 96  | 272371  | 170.834 | ug/l | 99     |
| 28) Bromochloromethane        | 7.34 | 49  | 192065  | 145.478 | ug/l | 99     |
| 29) Tetrahydrofuran           | 7.35 | 42  | 279191  | 712.162 | ug/l | 99     |
| 30) Chloroform                | 7.51 | 83  | 401082  | 141.089 | ug/l | 95     |
| 31) Cyclohexane               | 7.78 | 56  | 307177  | 120.659 | ug/l | 95     |
| 32) 1,1,1-Trichloroethane     | 7.70 | 97  | 337595  | 146.555 | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 7.92 | 75  | 289217  | 118.022 | ug/l | 99     |
| 37) Ethyl Acetate             | 7.08 | 43  | 182190  | 115.484 | ug/l | 100    |
| 38) Carbon Tetrachloride      | 7.90 | 117 | 280624  | 116.598 | ug/l | 93     |

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 Quant Title : SW846 8260  
 QLast Update : Thu Sep 12 08:42:53 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|----------|--------|----------|
| 39) Methylcyclohexane          | 9.18  | 83   | 360069   | 128.468  | ug/l   | 98       |
| 40) Benzene                    | 8.16  | 78   | 952039   | 136.492  | ug/l   | 99       |
| 41) Methacrylonitrile          | 7.34  | 41   | 254590   | 275.405  | ug/l # | 15       |
| 42) 1,2-Dichloroethane         | 8.24  | 62   | 242517   | 103.232  | ug/l   | 98       |
| 43) Isopropyl Acetate          | 8.28  | 43   | 353178   | 118.385  | ug/l   | 98       |
| 44) Trichloroethene            | 8.94  | 130  | 239364   | 132.875  | ug/l   | 99       |
| 45) 1,2-Dichloropropane        | 9.21  | 63   | 241348   | 125.699  | ug/l   | 99       |
| 46) Dibromomethane             | 9.31  | 93   | 126997   | 137.439  | ug/l   | 99       |
| 47) Bromodichloromethane       | 9.49  | 83   | 315693   | 126.701  | ug/l # | 96       |
| 48) Methyl methacrylate        | 9.29  | 41   | 159859   | 112.354  | ug/l   | 98       |
| 49) 1,4-Dioxane                | 9.30  | 88   | 47633    | 2543.569 | ug/l   | 94       |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43   | 957131   | 605.656  | ug/l   | 99       |
| 52) Toluene                    | 10.24 | 92   | 603258   | 138.298  | ug/l   | 100      |
| 53) t-1,3-Dichloropropene      | 10.46 | 75   | 337166   | 130.842  | ug/l   | 96       |
| 54) cis-1,3-Dichloropropene    | 9.93  | 75   | 381330   | 130.488  | ug/l   | 94       |
| 55) 1,1,2-Trichloroethane      | 10.65 | 97   | 202096   | 144.916  | ug/l   | 98       |
| 56) Ethyl methacrylate         | 10.51 | 69   | 285925   | 140.565  | ug/l   | 99       |
| 57) 1,3-Dichloropropane        | 10.79 | 76   | 327970   | 129.099  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether  | 9.78  | 63   | 695174   | 638.620  | ug/l   | 99       |
| 59) 2-Hexanone                 | 10.84 | 43   | 663023   | 574.346  | ug/l   | 100      |
| 60) Dibromochloromethane       | 10.98 | 129  | 218537   | 135.440  | ug/l   | 99       |
| 61) 1,2-Dibromoethane          | 11.09 | 107  | 181488   | 141.500  | ug/l   | 97       |
| 64) Tetrachloroethene          | 10.71 | 164  | 199324   | 134.615  | ug/l   | 97       |
| 65) Chlorobenzene              | 11.51 | 112  | 637966   | 137.695  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane  | 11.59 | 131  | 216981   | 128.336  | ug/l   | 99       |
| 67) Ethyl Benzene              | 11.59 | 91   | 1175654  | 136.529  | ug/l   | 100      |
| 68) m/p-Xylenes                | 11.70 | 106  | 889432   | 281.855  | ug/l   | 98       |
| 69) o-Xylene                   | 12.02 | 106  | 426940   | 143.604  | ug/l   | 95       |
| 70) Styrene                    | 12.04 | 104  | 768370   | 146.961  | ug/l   | 99       |
| 71) Bromoform                  | 12.20 | 173  | 132053   | 138.483  | ug/l # | 99       |
| 73) Isopropylbenzene           | 12.32 | 105  | 1164849  | 154.457  | ug/l   | 99       |
| 74) N-amyl acetate             | 12.14 | 43   | 321067   | 136.872  | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.58 | 83   | 246387   | 157.453  | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 325239   | 290.861  | ug/l # | 100      |
| 77) Bromobenzene               | 12.60 | 156  | 243555   | 143.427  | ug/l   | 98       |
| 78) n-propylbenzene            | 12.66 | 91   | 1413735  | 155.794  | ug/l   | 99       |
| 79) 2-Chlorotoluene            | 12.75 | 91   | 779207   | 150.448  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene     | 12.80 | 105  | 946035   | 149.133  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.37 | 75   | 98394    | 182.564  | ug/l   | 99       |
| 82) 4-Chlorotoluene            | 12.85 | 91   | 818811   | 149.460  | ug/l   | 100      |
| 83) tert-Butylbenzene          | 13.07 | 119  | 834486   | 149.579  | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 926399   | 144.408  | ug/l   | 98       |
| 85) sec-Butylbenzene           | 13.25 | 105  | 1197941  | 153.028  | ug/l   | 100      |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 1013629  | 143.645  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene        | 13.36 | 146  | 465456   | 138.672  | ug/l   | 99       |
| 88) 1,4-Dichlorobenzene        | 13.44 | 146  | 470584   | 141.178  | ug/l   | 100      |
| 89) n-Butylbenzene             | 13.69 | 91   | 1041155  | 150.554  | ug/l   | 99       |
| 90) Hexachloroethane           | 13.96 | 117  | 199115   | 157.940  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene        | 13.73 | 146  | 434588   | 143.423  | ug/l   | 99       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.35 | 75   | 44158    | 153.074  | ug/l   | 97       |

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Operator : SY/MD  
Sample : VSTDICC150  
Misc : 5.00g/5.00ml/MSVOA\_Y/SOIL  
ALS Vial : 4 Sample Multiplier: 1

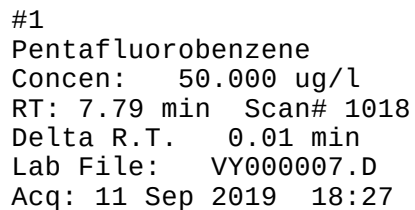
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDICC150

Quant Time: Sep 12 08:58:26 2019  
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Quant Title : SW846 8260  
QLast Update : Thu Sep 12 08:42:53 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|----------------------------|-------|------|----------|---------|-------|----------|
| 93) 1,2,4-Trichlorobenzene | 15.00 | 180  | 270395   | 132.245 | ug/l  | 97       |
| 94) Hexachlorobutadiene    | 15.10 | 225  | 128533   | 94.739  | ug/l  | 98       |
| 95) Naphthalene            | 15.23 | 128  | 718566   | 176.232 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.41 | 180  | 245440   | 134.922 | ug/l  | 98       |

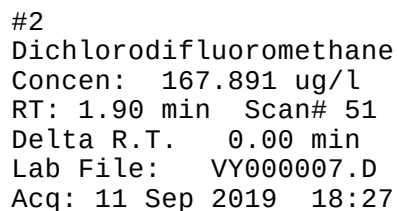
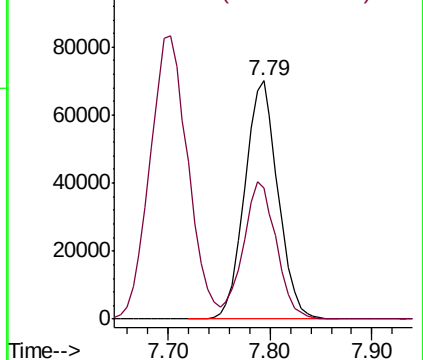
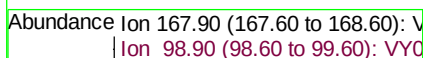
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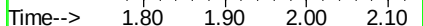
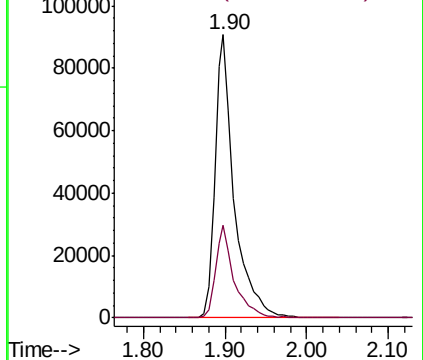
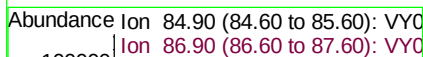


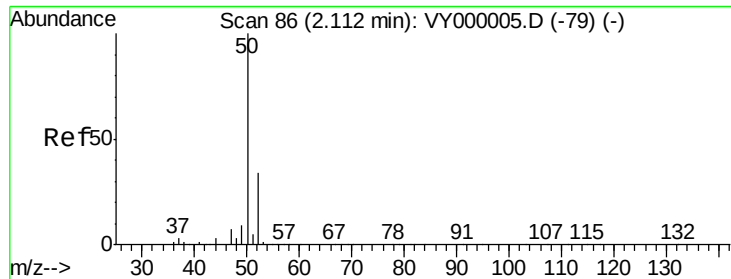
**Instrument :**  
MSVOA\_Y  
**ClientSampleId :**  
VSTDICC150

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:168 | Resp: | 158489 |
| Ion | Ratio   | Lower | Upper  |
| 168 | 100     |       |        |
| 99  | 54.8    | 44.2  | 66.2   |



|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 85 | Resp: | 149833 |
| Ion | Ratio   | Lower | Upper  |
| 85  | 100     |       |        |
| 87  | 32.9    | 16.2  | 48.6   |





#3

Chloromethane

Concen: 176.285 ug/l

RT: 2.11 min Scan# 86

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

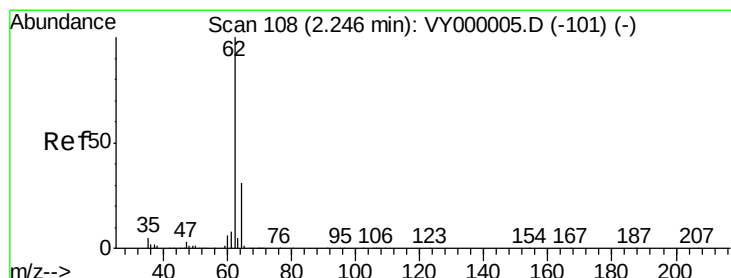
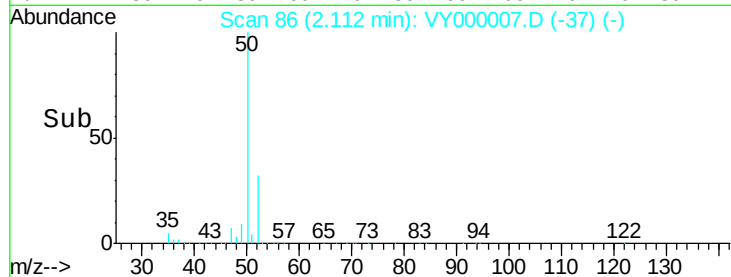
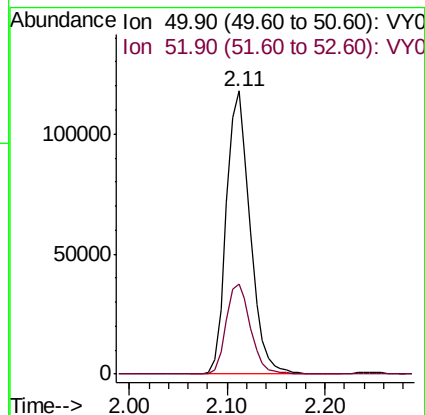
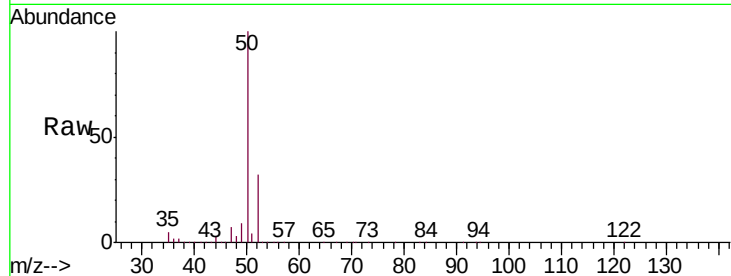
VSTDIC150

Tgt Ion: 50 Resp: 198500

Ion Ratio Lower Upper

50 100

52 31.8 26.8 40.2



#4

Vinyl Chloride

Concen: 175.883 ug/l

RT: 2.25 min Scan# 108

Delta R.T. 0.00 min

Lab File: VY000007.D

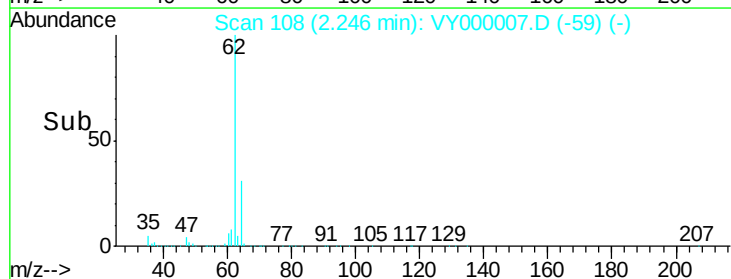
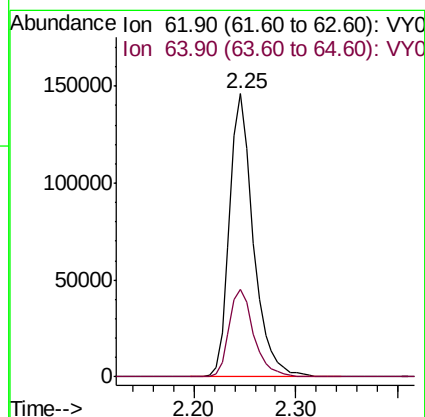
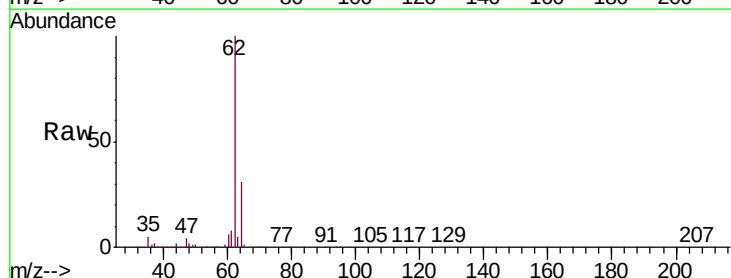
Acq: 11 Sep 2019 18:27

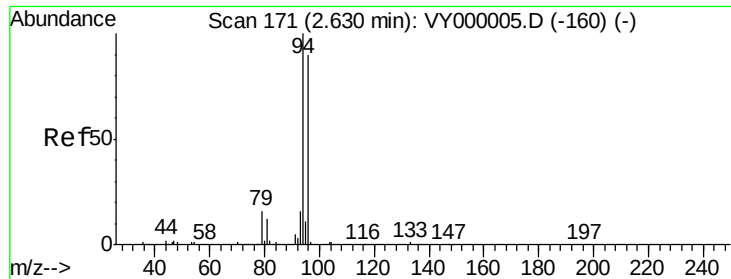
Tgt Ion: 62 Resp: 237753

Ion Ratio Lower Upper

62 100

64 30.7 24.6 37.0





#5

Bromomethane

Concen: 183.199 ug/l

RT: 2.61 min Scan# 168

Delta R.T. -0.02 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

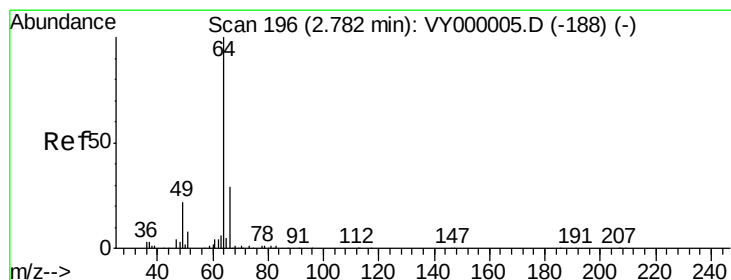
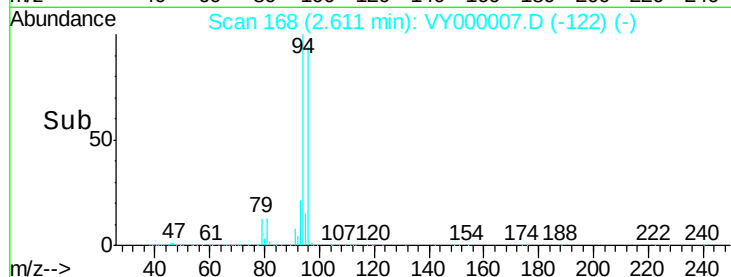
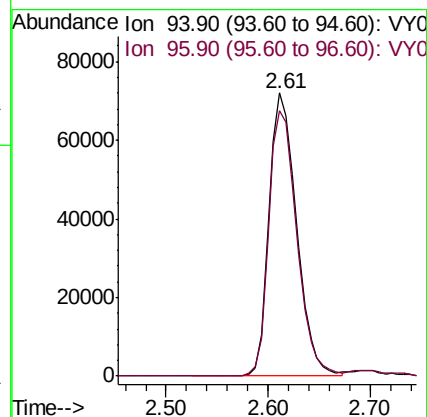
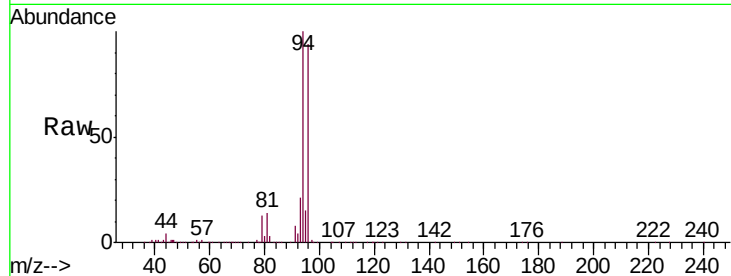
VSTDIC150

Tgt Ion: 94 Resp: 135560

Ion Ratio Lower Upper

94 100

96 93.8 71.6 107.4



#6

Chloroethane

Concen: 195.957 ug/l

RT: 2.77 min Scan# 194

Delta R.T. -0.01 min

Lab File: VY000007.D

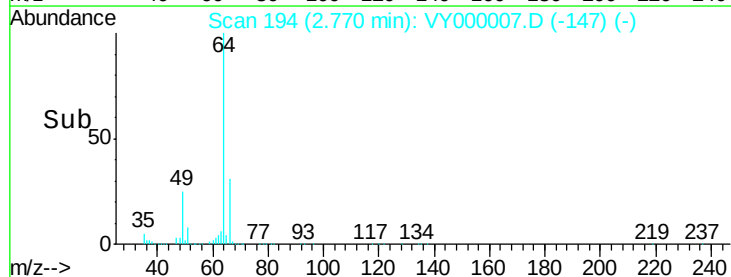
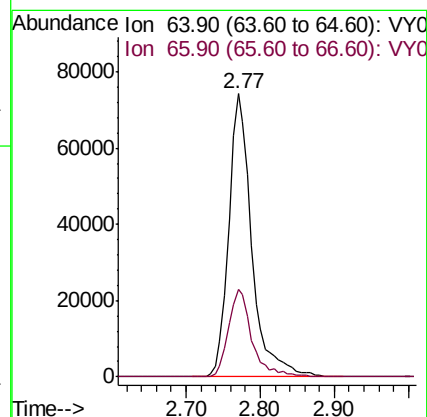
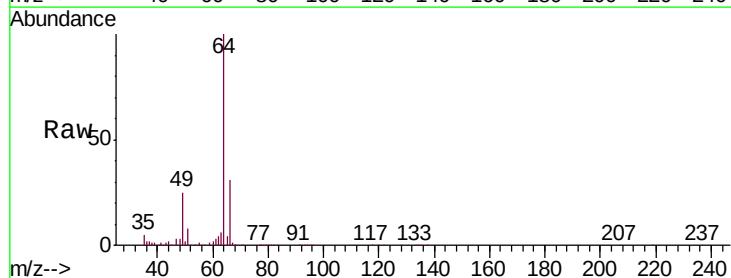
Acq: 11 Sep 2019 18:27

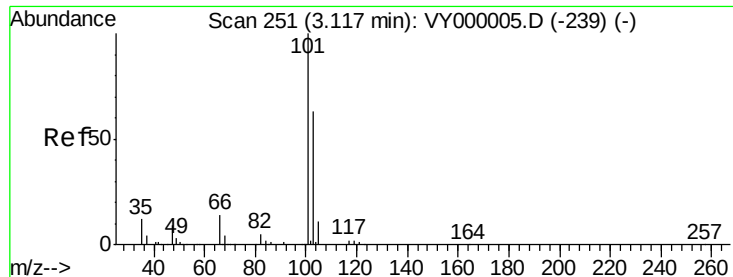
Tgt Ion: 64 Resp: 160785

Ion Ratio Lower Upper

64 100

66 31.0 23.5 35.3



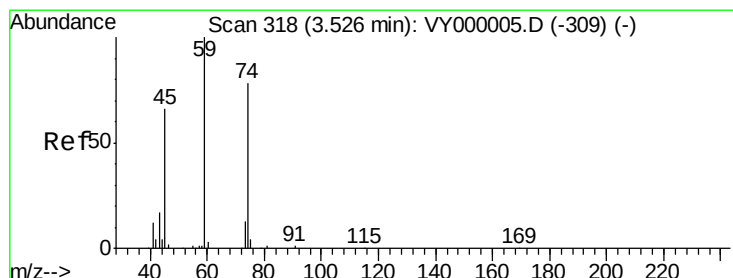
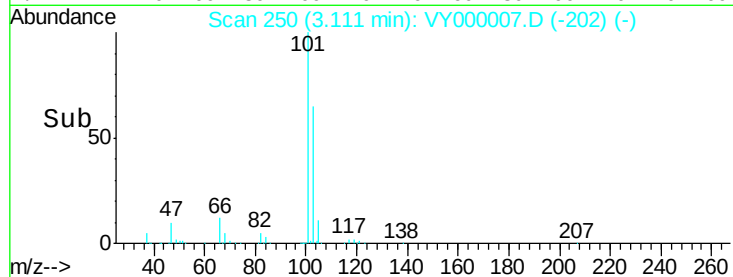
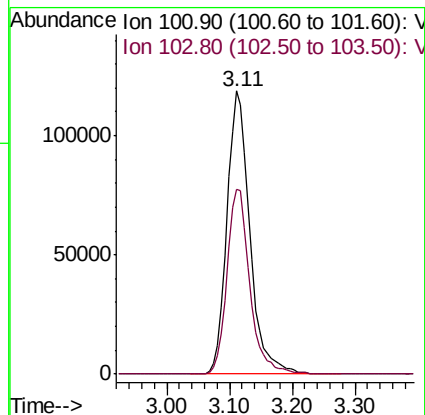
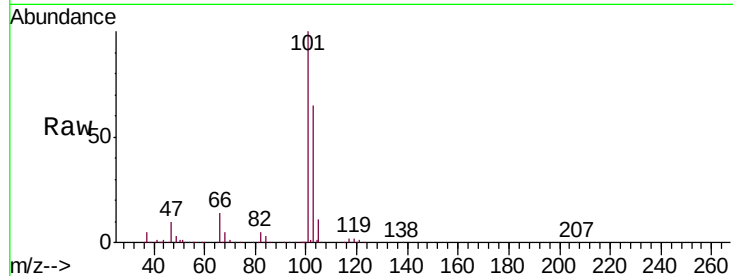


#7

Trichlorofluoromethane  
 Concen: 276.899 ug/l  
 RT: 3.11 min Scan# 250  
 Delta R.T. -0.01 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC150

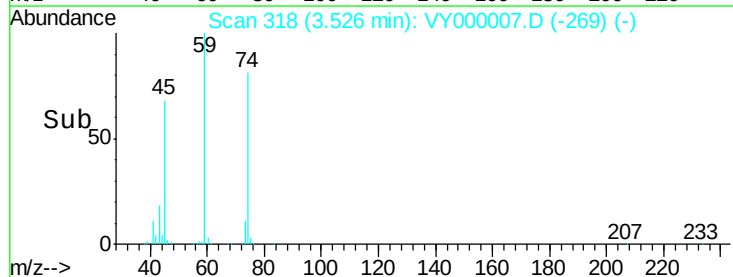
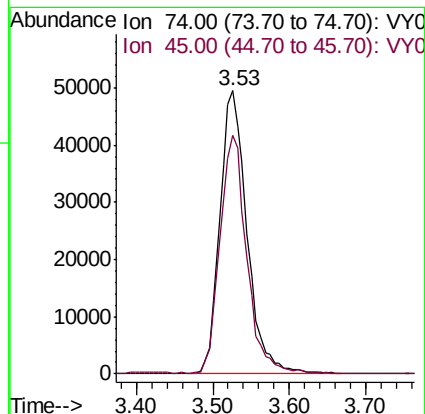
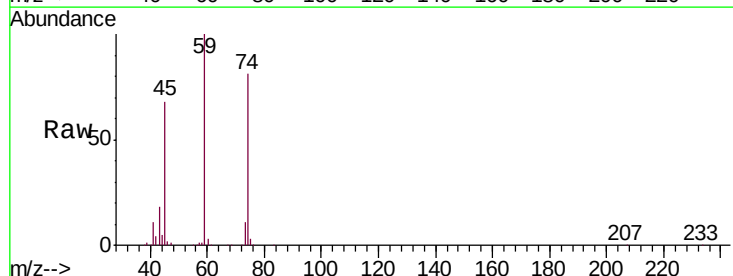
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 Ion Ratio Lower Upper  
 101 100  
 103 65.3 50.0 75.0



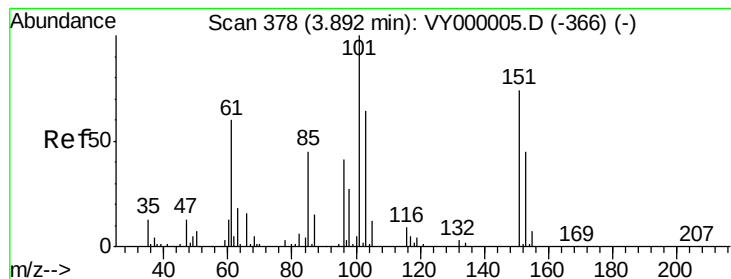
#8

Diethyl Ether  
 Concen: 160.262 ug/l  
 RT: 3.53 min Scan# 318  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

Tgt Ion: 74 Resp: 121479  
 Ion Ratio Lower Upper  
 74 100  
 45 83.5 40.5 121.4







#9

1,1,2-Trichlorotrifluoroethane

Concen: 150.396 ug/l

RT: 3.89 min Scan# 378

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

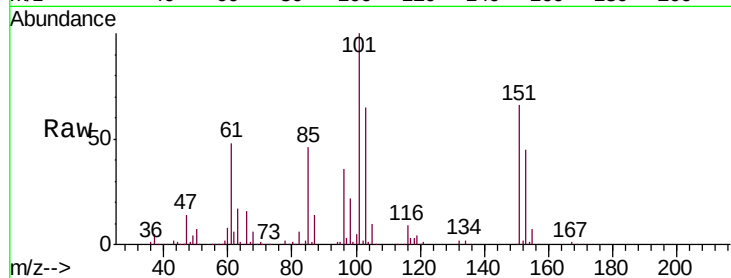
Tgt Ion:101 Resp: 208809

Ion Ratio Lower Upper

101 100

85 44.1 34.0 51.0

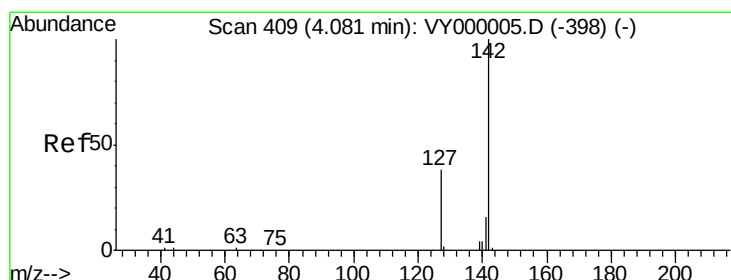
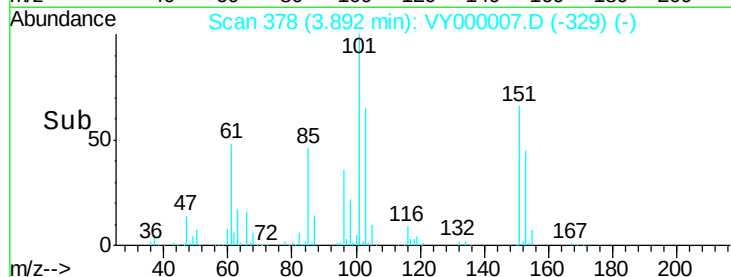
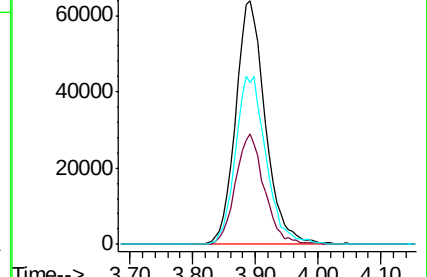
151 71.4 57.3 85.9



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VY0

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 149.334 ug/l

RT: 4.08 min Scan# 409

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

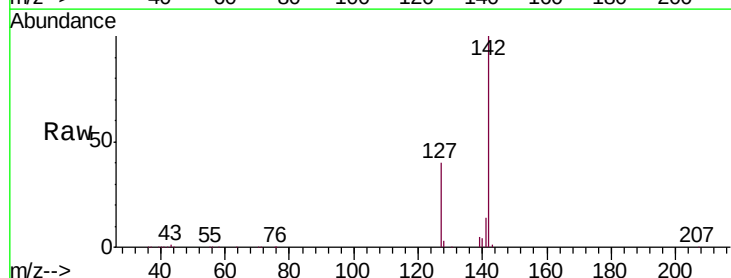
Tgt Ion:142 Resp: 259230

Ion Ratio Lower Upper

142 100

127 39.0 30.0 45.0

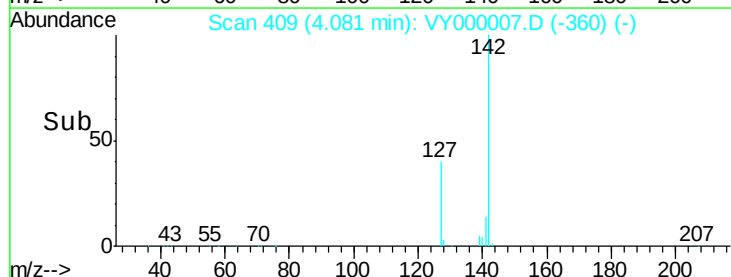
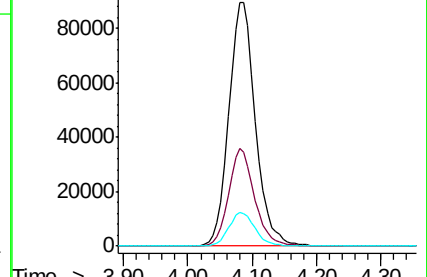
141 13.9 11.0 16.4

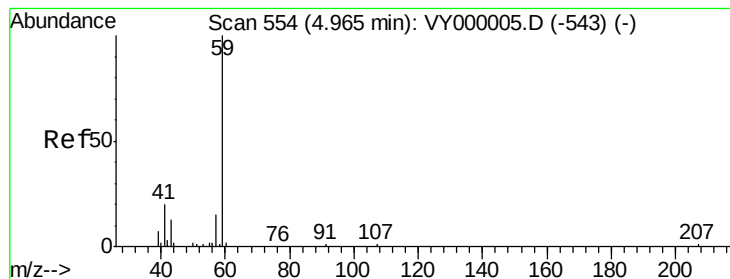


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



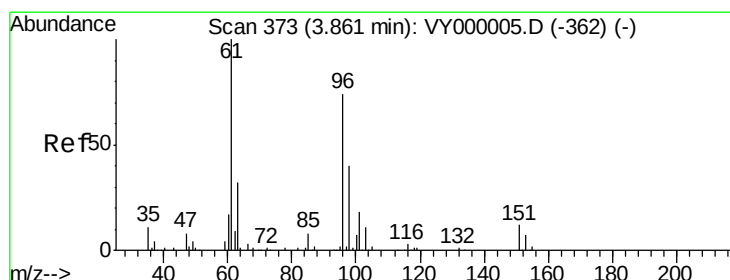
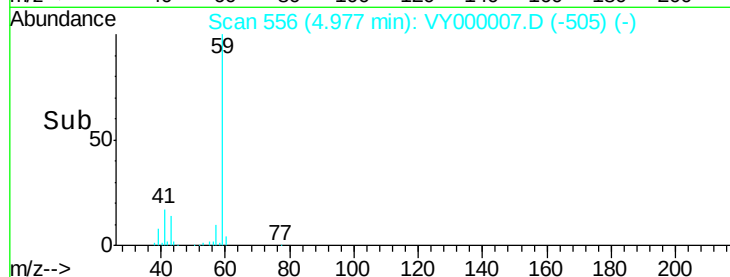
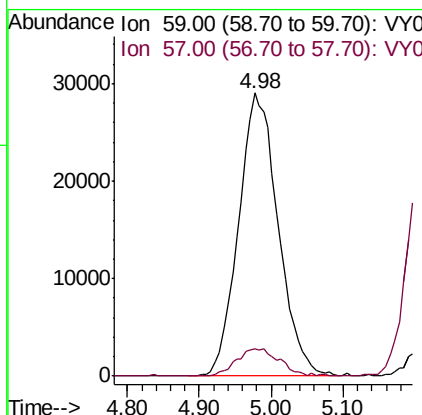
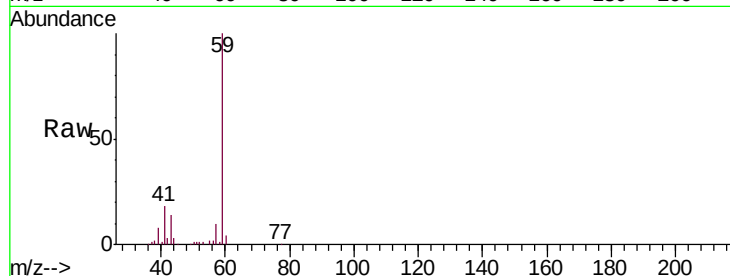


#11

Tert butyl alcohol  
 Concen: 774.228 ug/l  
 RT: 4.98 min Scan# 556  
 Delta R.T. 0.01 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC150

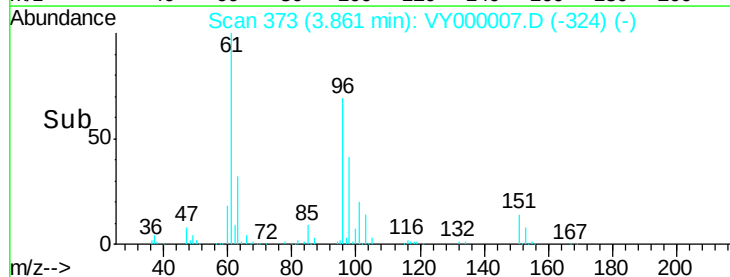
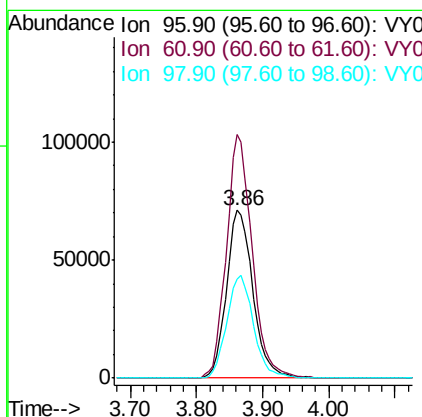
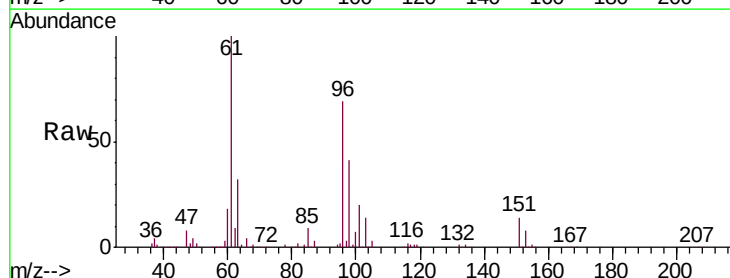
Tgt Ion: 59 Resp: 110772  
 Ion Ratio Lower Upper  
 59 100  
 57 10.7 8.9 13.3

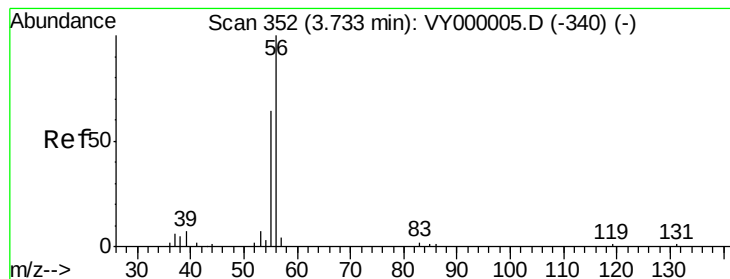


#12

1,1-Dichloroethene  
 Concen: 148.942 ug/l  
 RT: 3.86 min Scan# 373  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

Tgt Ion: 96 Resp: 196282  
 Ion Ratio Lower Upper  
 96 100  
 61 145.0 108.1 162.1  
 98 59.0 42.8 64.2





#13

Acrolein

Concen: 702.143 ug/l

RT: 3.73 min Scan# 351

Delta R.T. -0.01 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

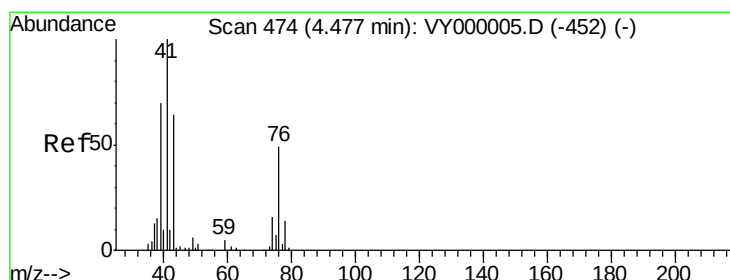
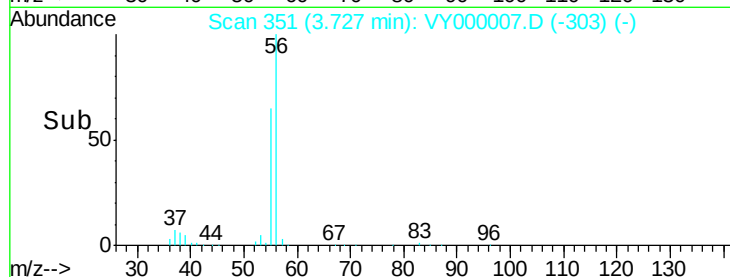
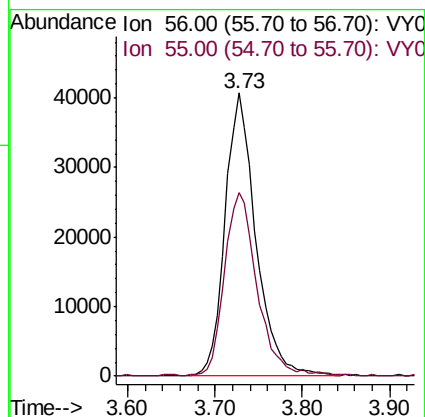
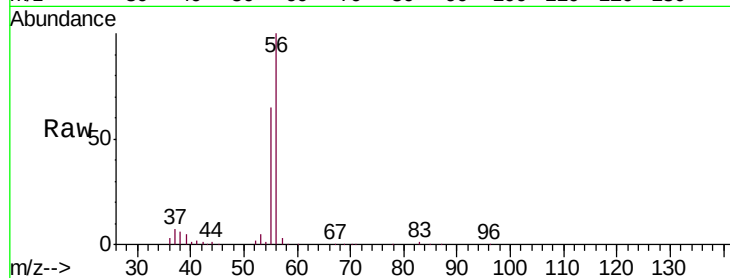
VSTDIC150

Tgt Ion: 56 Resp: 99719

Ion Ratio Lower Upper

56 100

55 67.3 53.3 79.9



#14

Allyl chloride

Concen: 116.590 ug/l

RT: 4.47 min Scan# 473

Delta R.T. -0.01 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

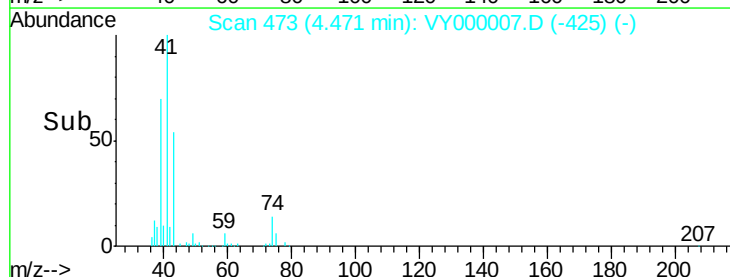
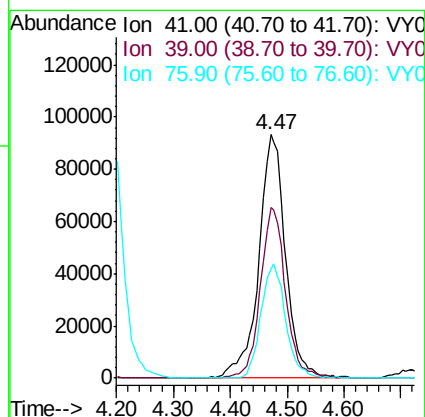
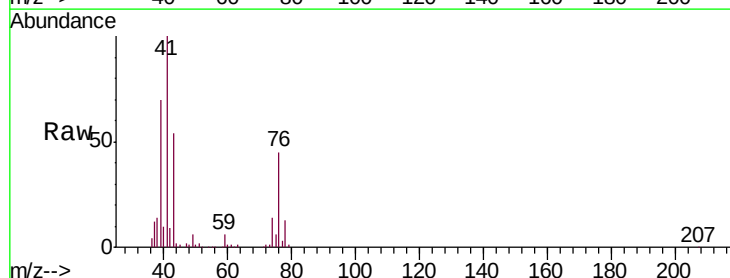
Tgt Ion: 41 Resp: 303040

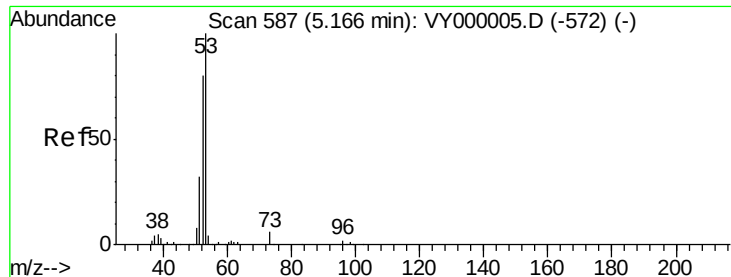
Ion Ratio Lower Upper

41 100

39 66.3 52.4 78.6

76 43.4 33.3 49.9





#15

Acrylonitrile

Concen: 842.645 ug/l

RT: 5.17 min Scan# 587

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

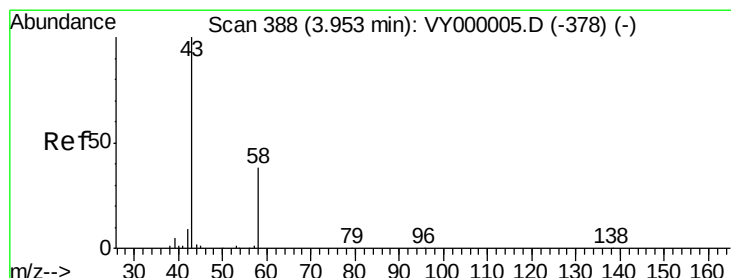
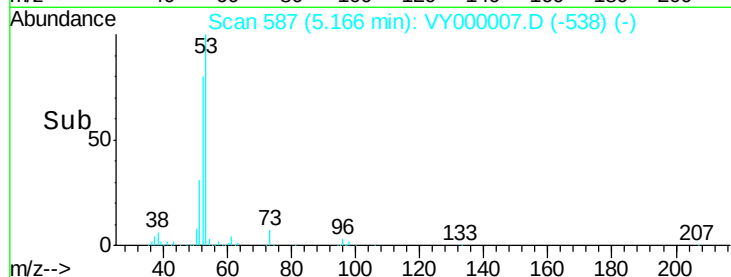
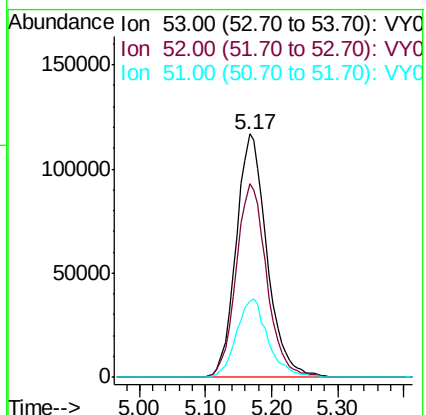
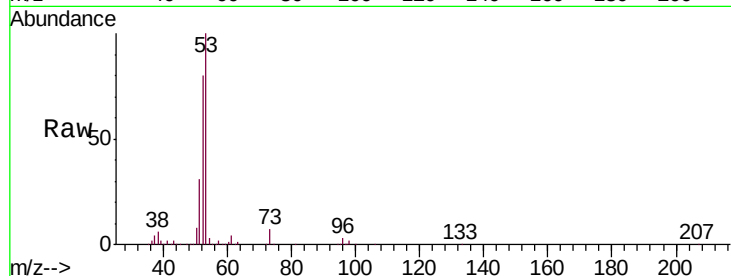
Tgt Ion: 53 Resp: 378050

Ion Ratio Lower Upper

53 100

52 79.0 64.4 96.6

51 33.0 27.1 40.7



#16

Acetone

Concen: 592.768 ug/l

RT: 3.95 min Scan# 388

Delta R.T. 0.00 min

Lab File: VY000007.D

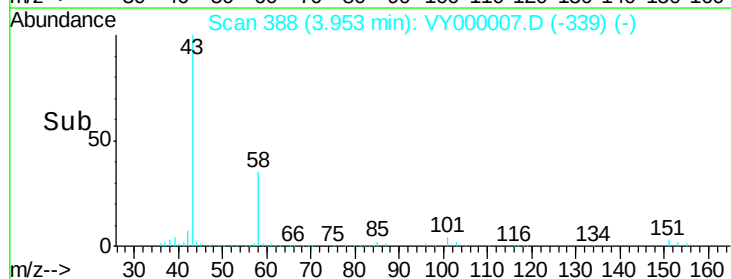
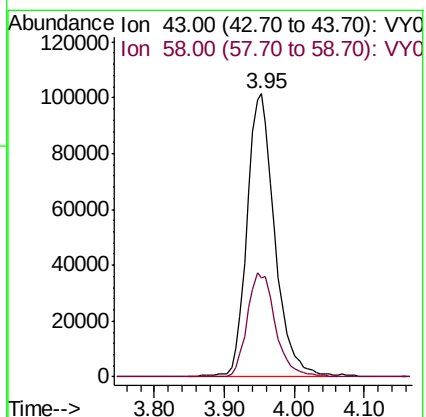
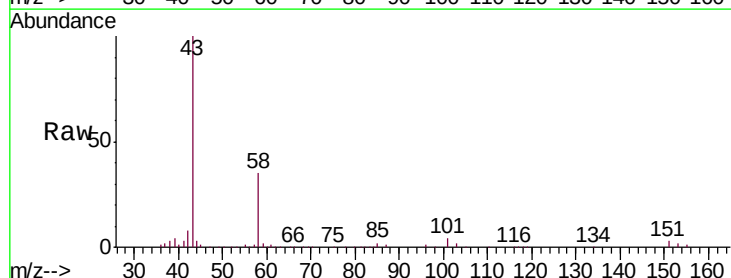
Acq: 11 Sep 2019 18:27

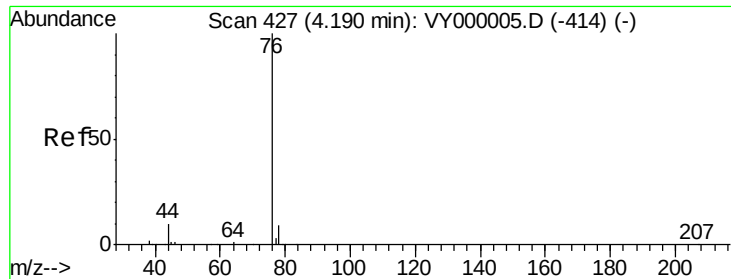
Tgt Ion: 43 Resp: 276607

Ion Ratio Lower Upper

43 100

58 35.1 30.5 45.7





#17

Carbon Disulfide

Concen: 141.816 ug/l

RT: 4.18 min Scan# 426

Delta R.T. -0.01 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

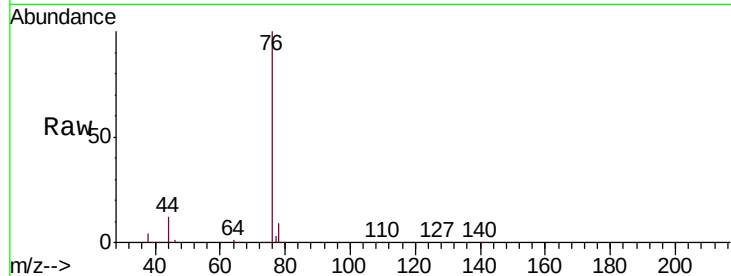
VSTDIC150

Tgt Ion: 76 Resp: 392397

Ion Ratio Lower Upper

76 100

78 8.9 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0

4.18

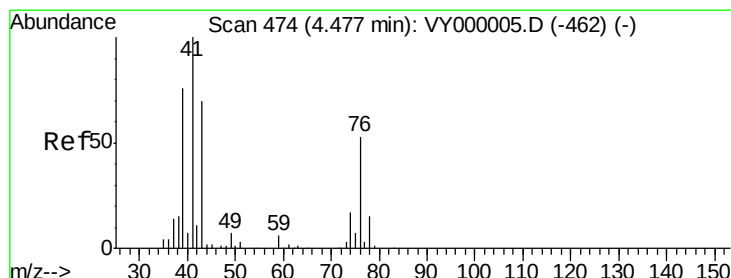
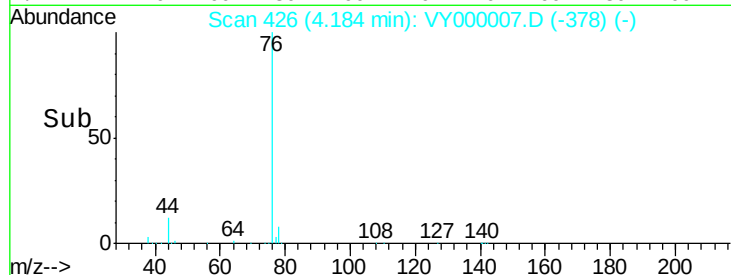
150000

100000

50000

0

Time--> 4.00 4.10 4.20 4.30 4.40



#18

Methyl Acetate

Concen: 141.674 ug/l

RT: 4.48 min Scan# 474

Delta R.T. 0.00 min

Lab File: VY000007.D

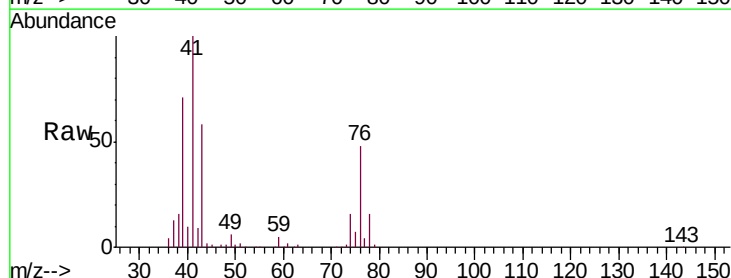
Acq: 11 Sep 2019 18:27

Tgt Ion: 43 Resp: 162014

Ion Ratio Lower Upper

43 100

74 27.1 21.4 32.2



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 74.00 (73.70 to 74.70): VY0

4.48

60000

50000

40000

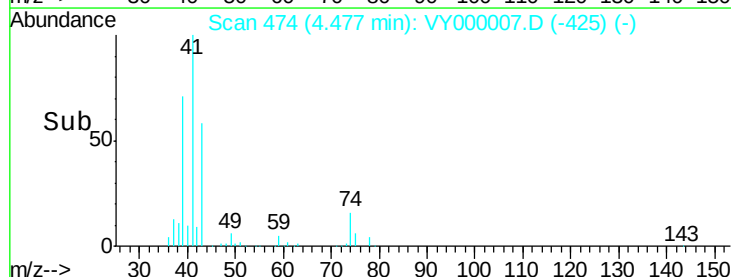
30000

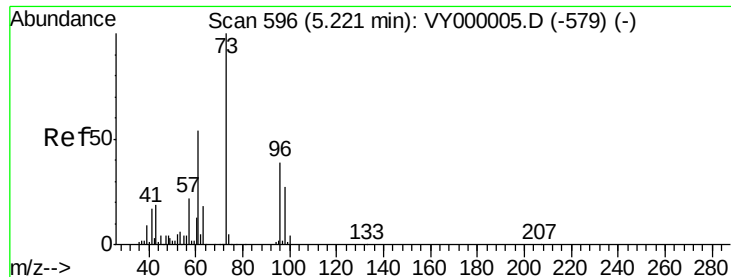
20000

10000

0

Time--> 4.30 4.40 4.50 4.60 4.70

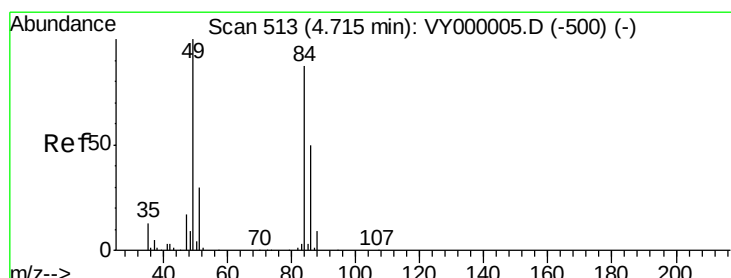
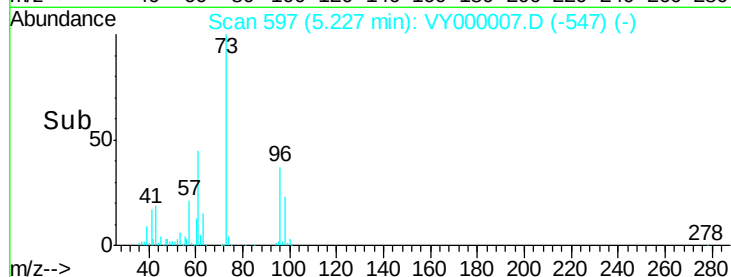
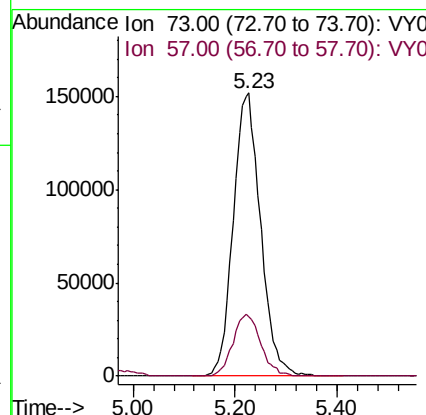
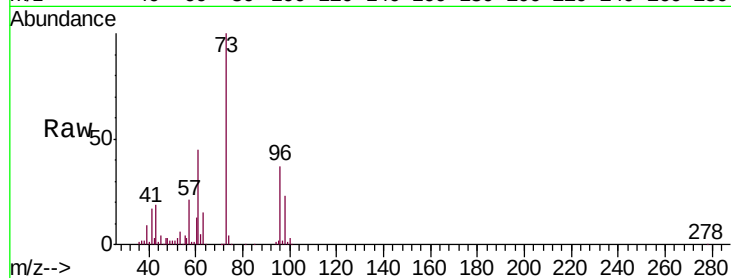




#19  
Methyl tert-butyl Ether  
Concen: 201.215 ug/l  
RT: 5.23 min Scan# 597  
Delta R.T. 0.01 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

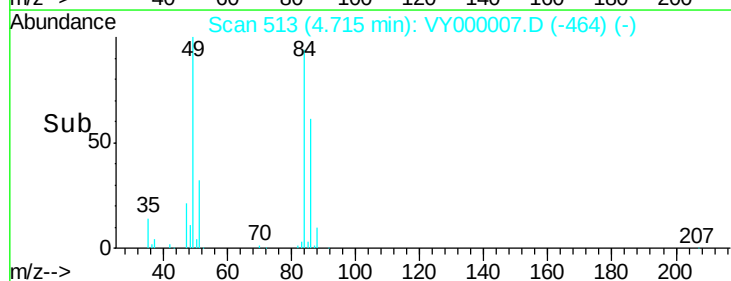
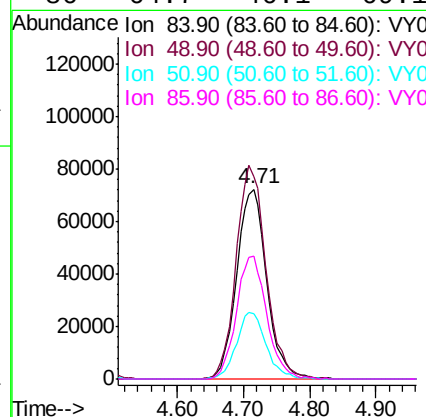
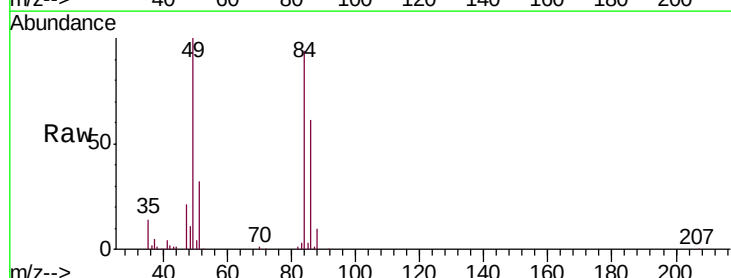
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150

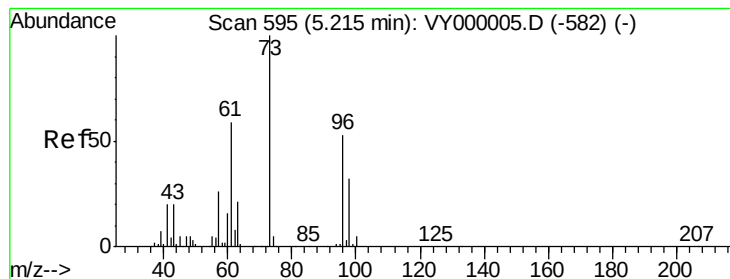
Tgt Ion: 73 Resp: 563377  
Ion Ratio Lower Upper  
73 100  
57 21.1 18.2 27.4



#20  
Methylene Chloride  
Concen: 148.712 ug/l  
RT: 4.71 min Scan# 513  
Delta R.T. 0.00 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

Tgt Ion: 84 Resp: 228309  
Ion Ratio Lower Upper  
84 100  
49 106.8 91.7 137.5  
51 34.1 28.0 42.0  
86 64.7 46.1 69.1





#21

trans-1,2-Dichloroethene

Concen: 158.666 ug/l

RT: 5.21 min Scan# 595

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

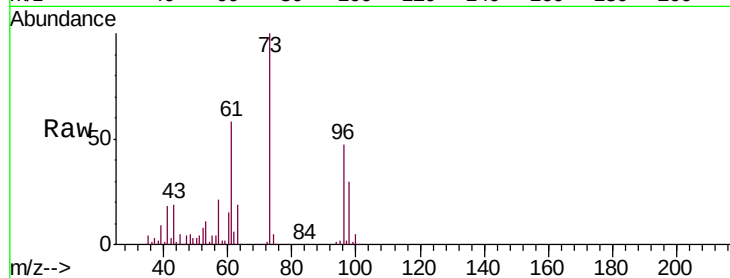
Tgt Ion: 96 Resp: 214301

Ion Ratio Lower Upper

96 100

61 124.6 89.4 134.2

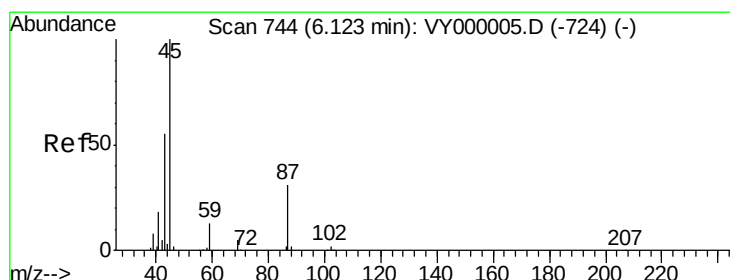
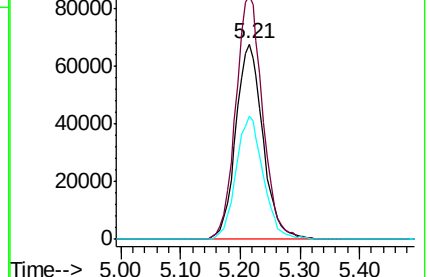
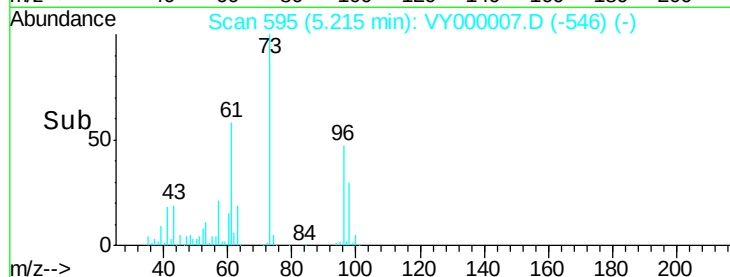
98 63.4 48.6 73.0



Abundance Ion 95.90 (95.60 to 96.60): VY000007.D (-546) (-)

Ion 60.90 (60.60 to 61.60): VY000007.D (-546) (-)

Ion 97.90 (97.60 to 98.60): VY000007.D (-546) (-)



#22

Diisopropyl ether

Concen: 128.313 ug/l

RT: 6.12 min Scan# 743

Delta R.T. -0.01 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Tgt Ion: 45 Resp: 664933

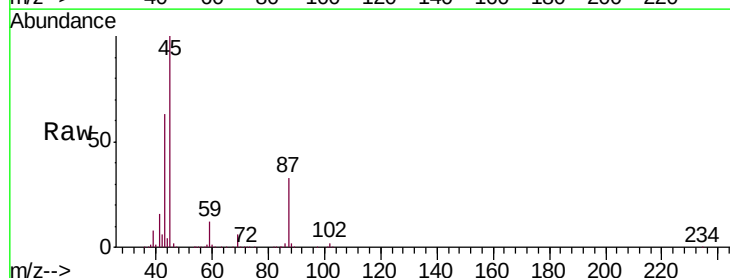
Ion Ratio Lower Upper

45 100

43 62.7 45.2 67.8

87 33.2 25.3 37.9

59 12.3 10.6 15.8

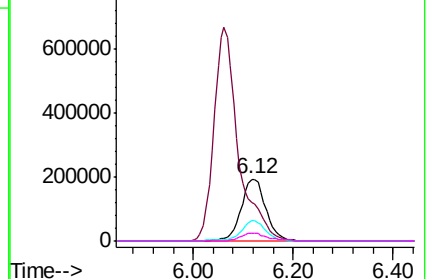
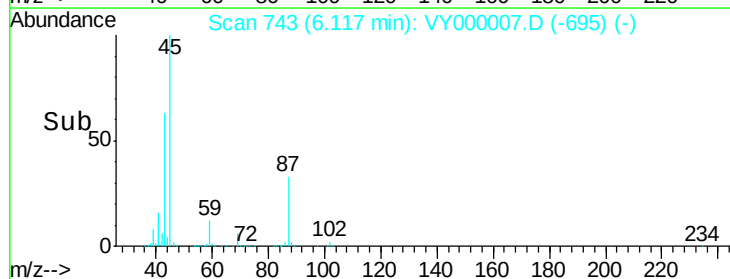


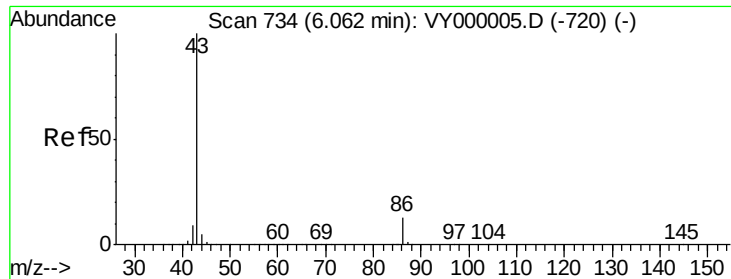
Abundance Ion 45.00 (44.70 to 45.70): VY000007.D (-695) (-)

Ion 43.00 (42.70 to 43.70): VY000007.D (-695) (-)

Ion 87.00 (86.70 to 87.70): VY000007.D (-695) (-)

Ion 59.00 (58.70 to 59.70): VY000007.D (-695) (-)

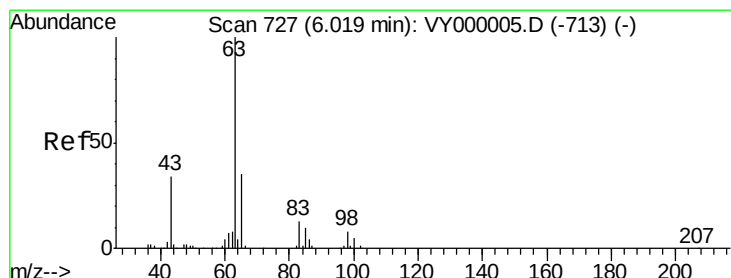
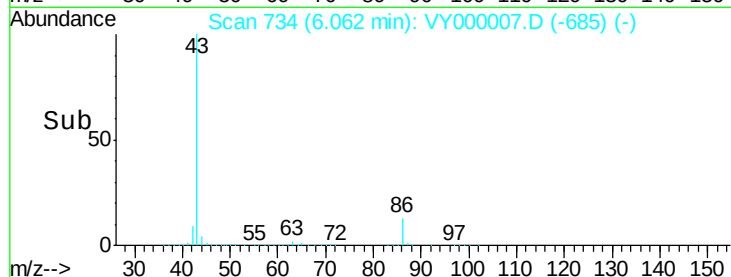
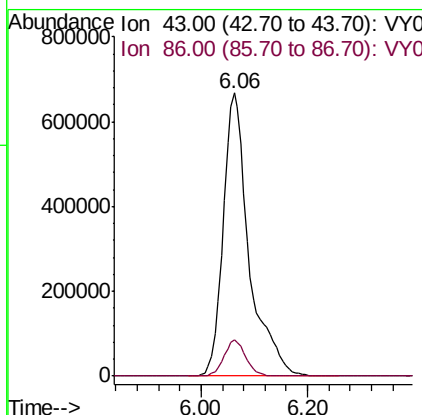
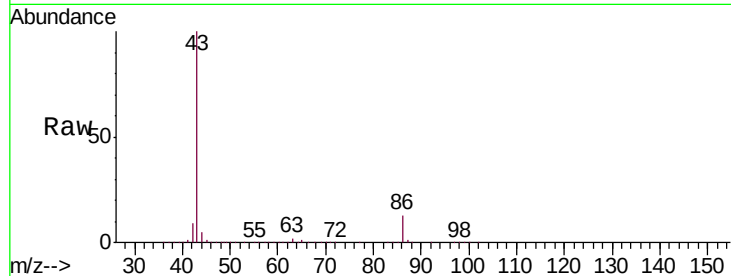




#23  
 Vinyl Acetate  
 Concen: 683.094 ug/l  
 RT: 6.06 min Scan# 734  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

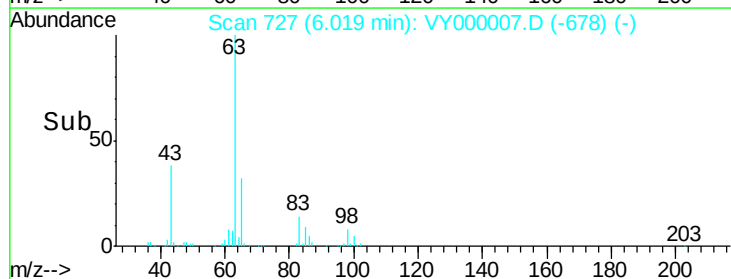
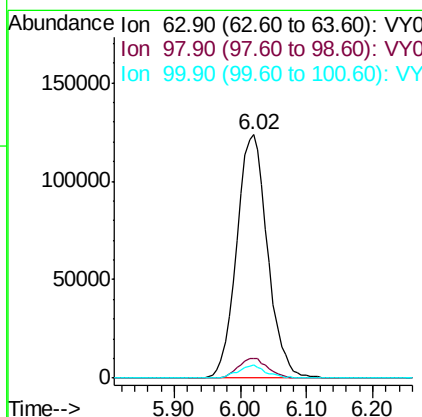
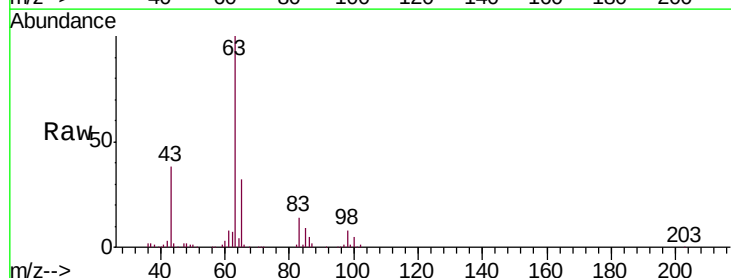
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC150

Tgt Ion: 43 Resp: 2262747  
 Ion Ratio Lower Upper  
 43 100  
 86 12.9 10.3 15.5

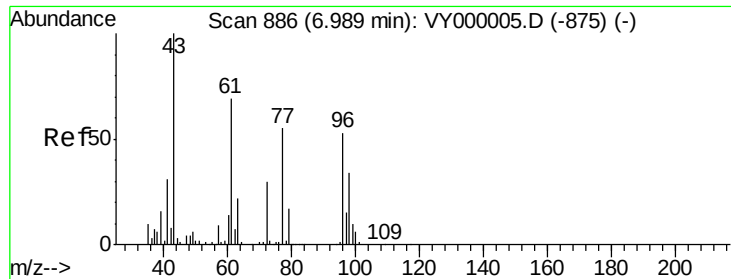


#24  
 1,1-Dichloroethane  
 Concen: 141.144 ug/l  
 RT: 6.02 min Scan# 727  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

Tgt Ion: 63 Resp: 399934  
 Ion Ratio Lower Upper  
 63 100  
 98 7.9 4.0 12.0  
 100 5.5 2.5 7.5







#25

2-Butanone

Concen: 699.791 ug/l

RT: 6.99 min Scan# 887

Delta R.T. 0.01 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

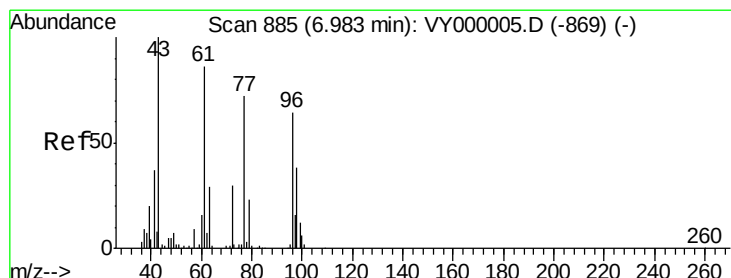
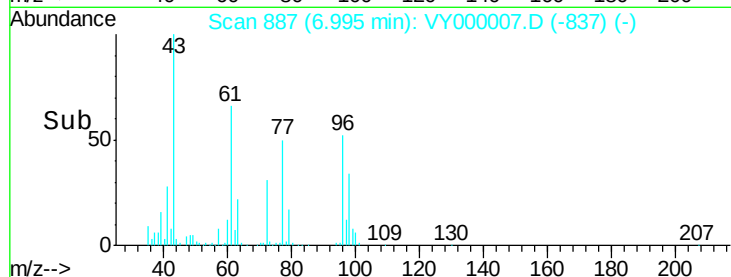
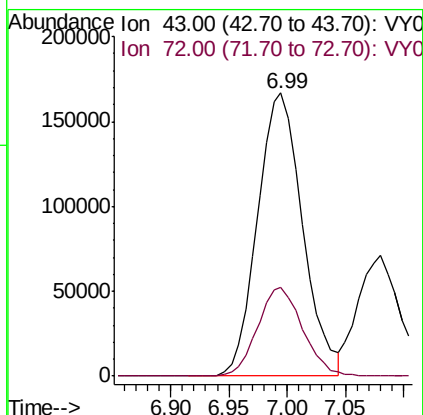
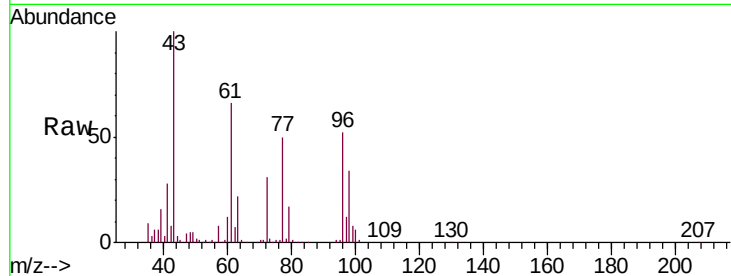
VSTDIC150

Tgt Ion: 43 Resp: 446527

Ion Ratio Lower Upper

43 100

72 31.2 24.2 36.2



#26

2,2-Dichloropropane

Concen: 176.754 ug/l

RT: 6.98 min Scan# 885

Delta R.T. 0.00 min

Lab File: VY000007.D

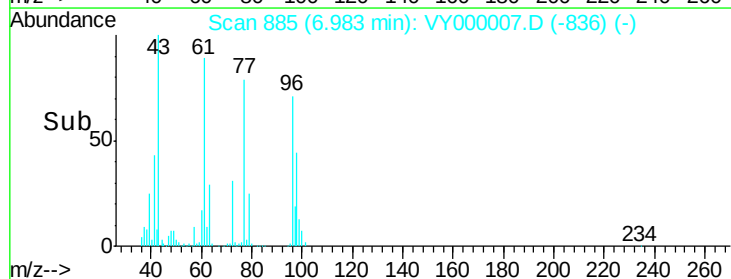
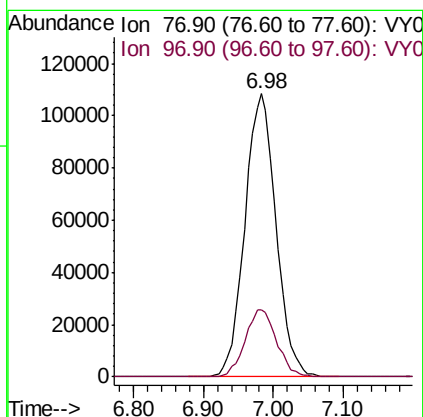
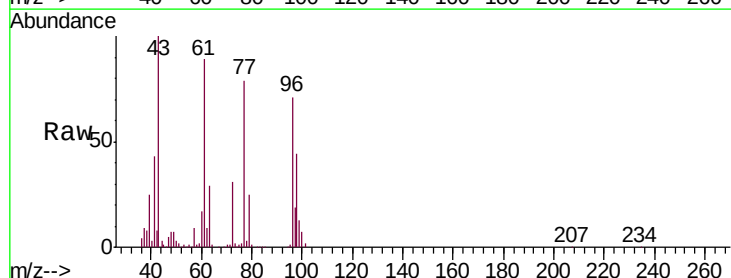
Acq: 11 Sep 2019 18:27

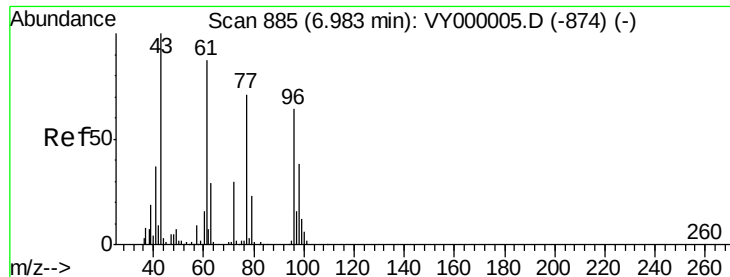
Tgt Ion: 77 Resp: 334467

Ion Ratio Lower Upper

77 100

97 24.0 12.6 37.6



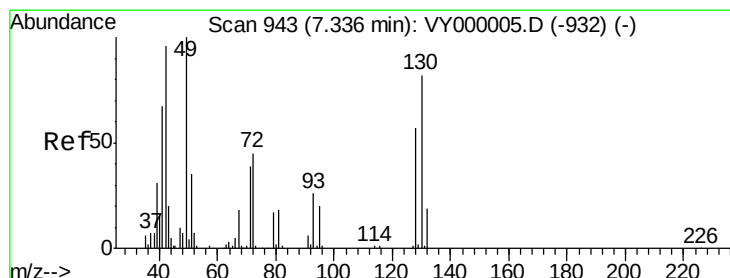
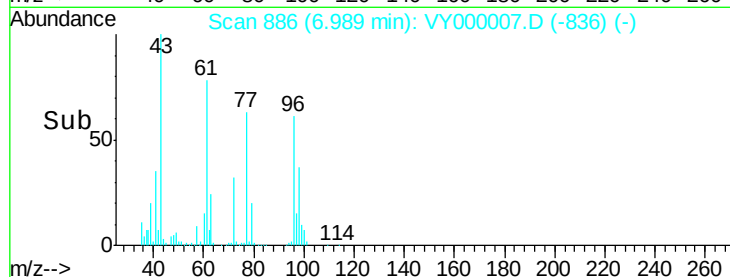
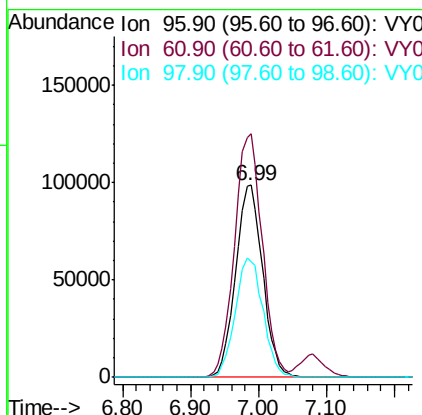
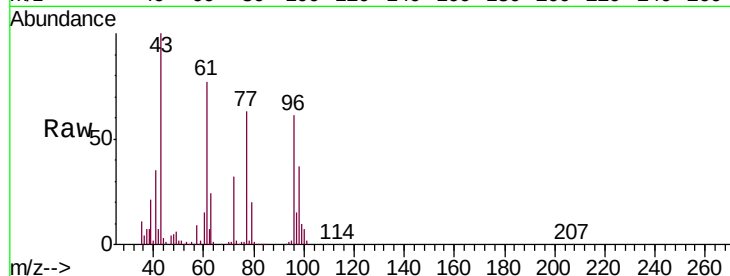


#27

cis-1,2-Dichloroethene  
 Concen: 170.834 ug/l  
 RT: 6.99 min Scan# 886  
 Delta R.T. 0.01 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC150

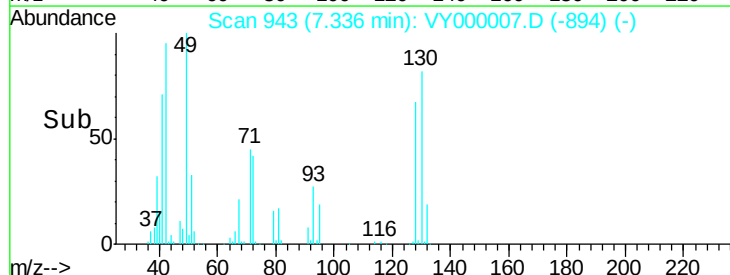
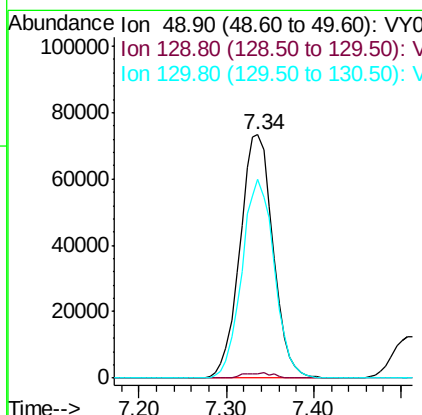
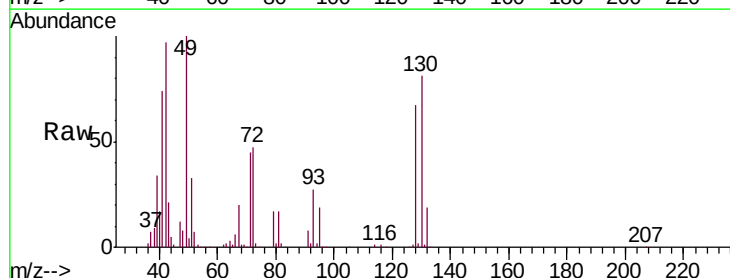
Tgt Ion: 96 Resp: 272371  
 Ion Ratio Lower Upper  
 96 100  
 61 130.5 0.0 259.0  
 98 64.1 0.0 129.8

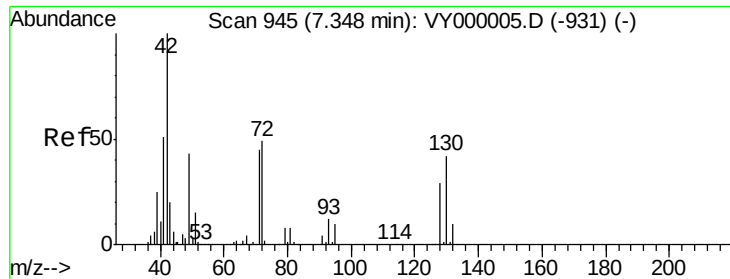


#28

Bromochloromethane  
 Concen: 145.478 ug/l  
 RT: 7.34 min Scan# 943  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

Tgt Ion: 49 Resp: 192065  
 Ion Ratio Lower Upper  
 49 100  
 129 2.0 0.0 4.6  
 130 80.3 65.3 97.9





#29

Tetrahydrofuran

Concen: 712.162 ug/l

RT: 7.35 min Scan# 945

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

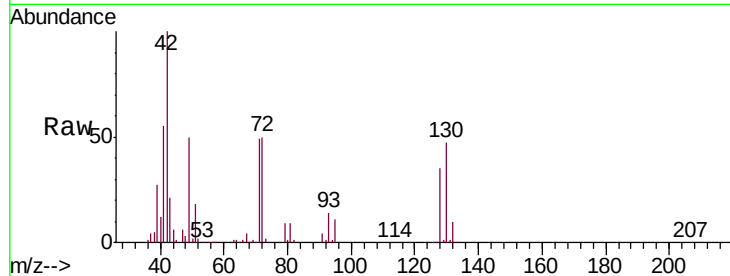
Tgt Ion: 42 Resp: 279191

Ion Ratio Lower Upper

42 100

72 49.8 39.2 58.8

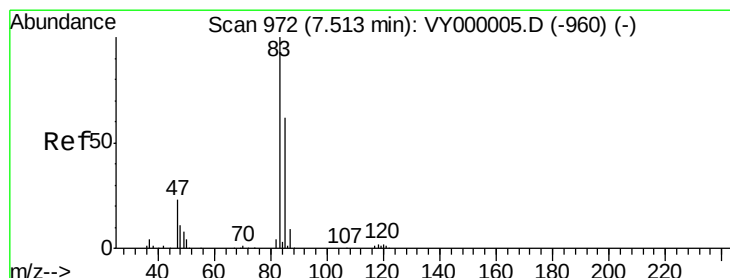
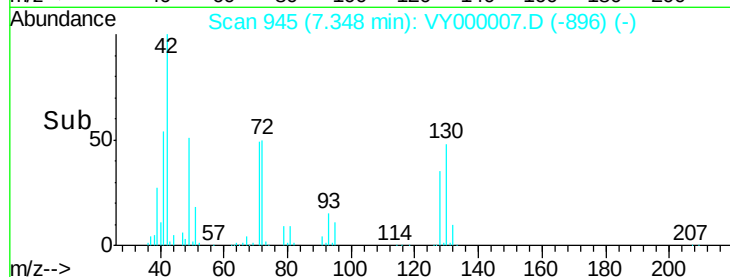
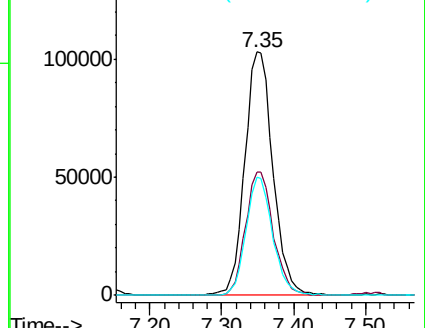
71 46.1 36.4 54.6



Abundance Ion 42.00 (41.70 to 42.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

Ion 71.00 (70.70 to 71.70): VY0



#30

Chloroform

Concen: 141.089 ug/l

RT: 7.51 min Scan# 971

Delta R.T. -0.01 min

Lab File: VY000007.D

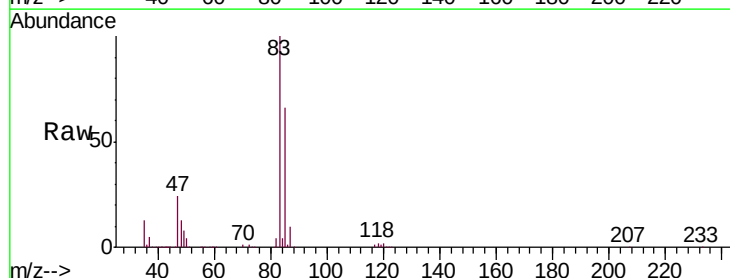
Acq: 11 Sep 2019 18:27

Tgt Ion: 83 Resp: 401082

Ion Ratio Lower Upper

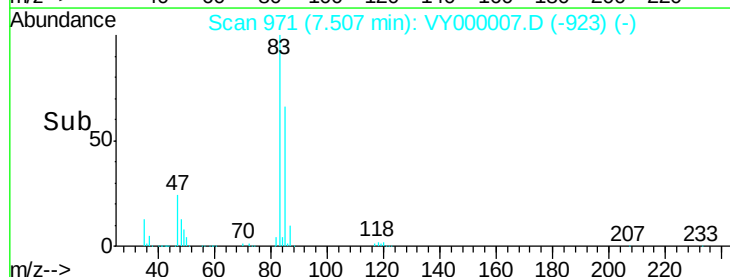
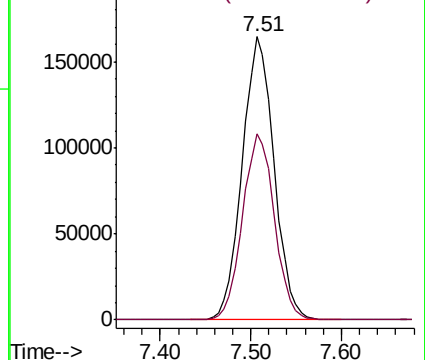
83 100

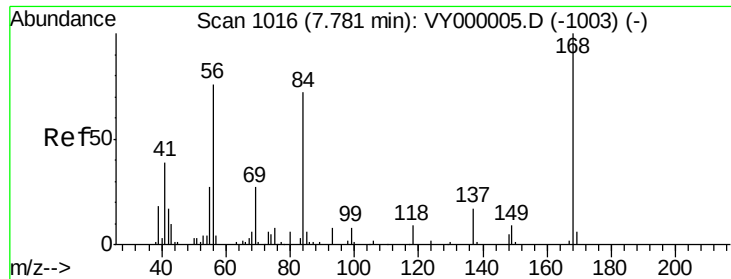
85 65.8 49.4 74.0



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 84.90 (84.60 to 85.60): VY0

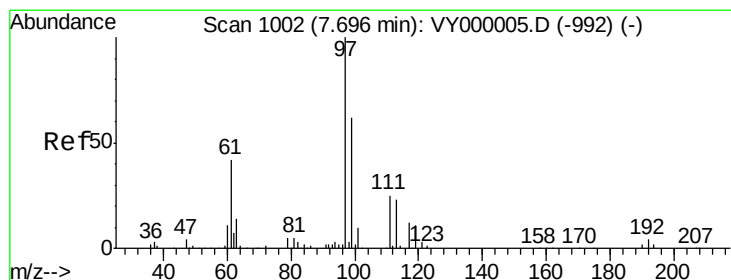
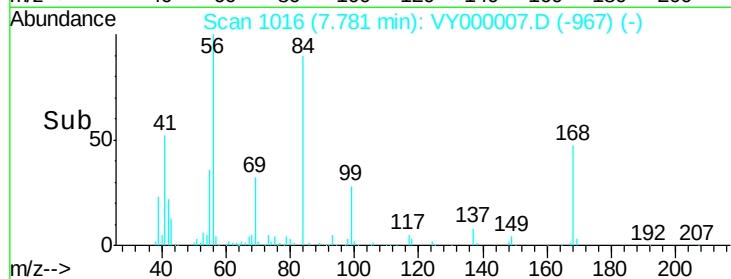
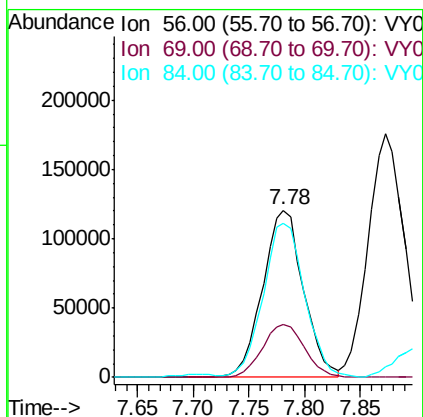
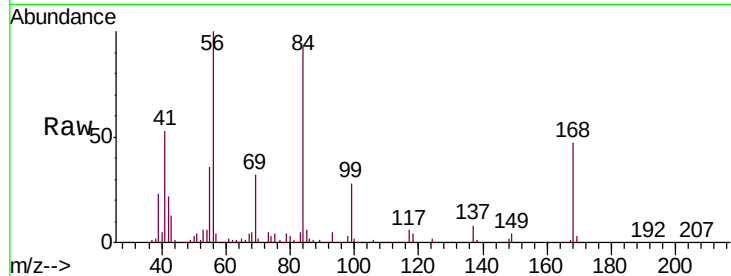




#31  
Cyclohexane  
Concen: 120.659 ug/l  
RT: 7.78 min Scan# 1016  
Delta R.T. 0.00 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

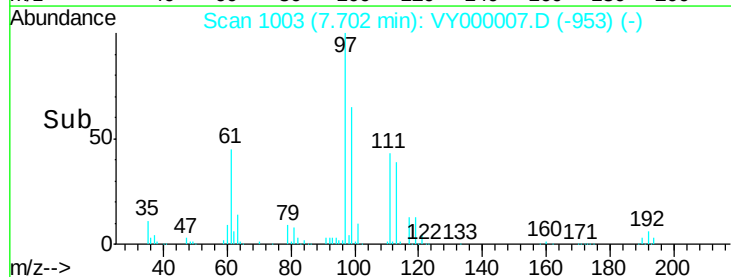
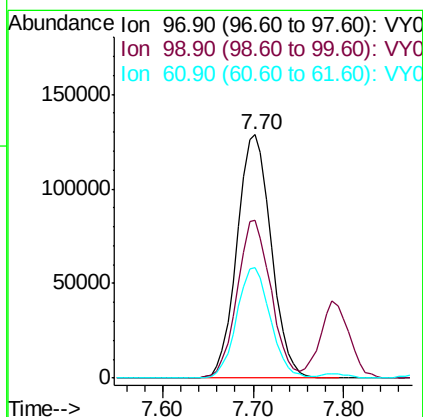
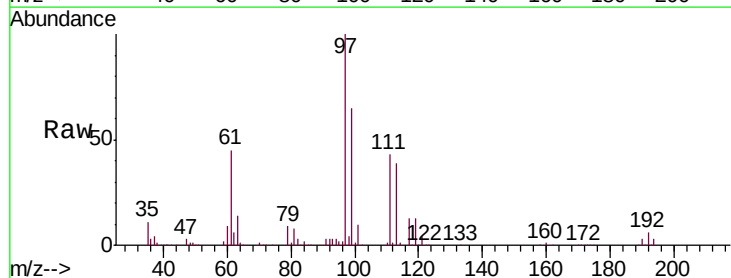
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150

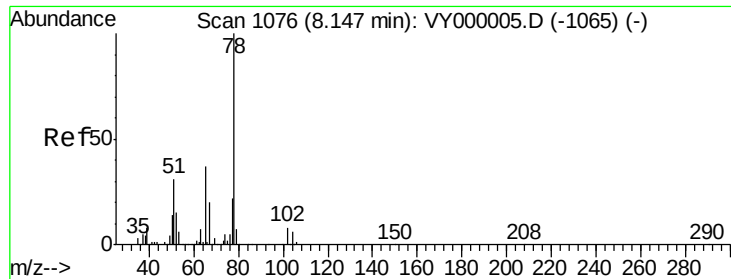
Tgt Ion: 56 Resp: 307177  
Ion Ratio Lower Upper  
56 100  
69 31.8 28.5 42.7  
84 90.9 76.4 114.6



#32  
1,1,1-Trichloroethane  
Concen: 146.555 ug/l  
RT: 7.70 min Scan# 1003  
Delta R.T. 0.01 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

Tgt Ion: 97 Resp: 337595  
Ion Ratio Lower Upper  
97 100  
99 64.0 50.3 75.5  
61 44.6 35.0 52.4

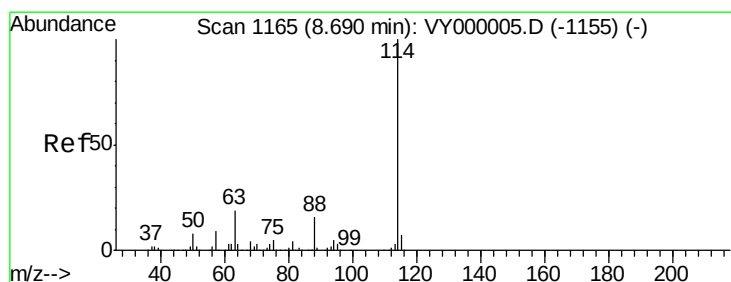
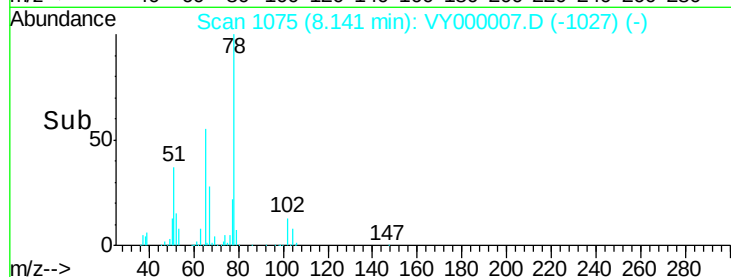
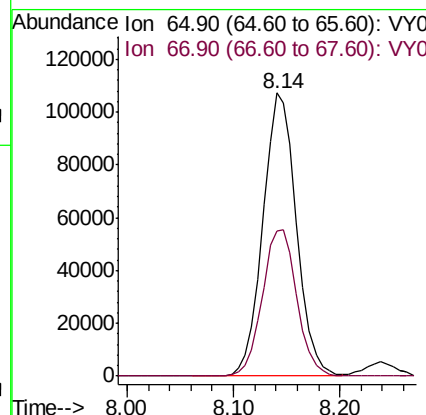
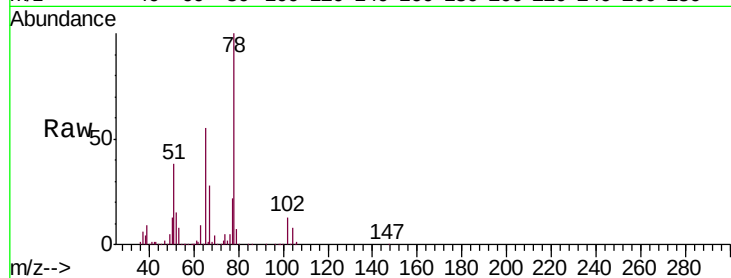




#33  
 1,2-Dichloroethane-d4  
 Concen: 134.645 ug/l  
 RT: 8.14 min Scan# 1075  
 Delta R.T. -0.01 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

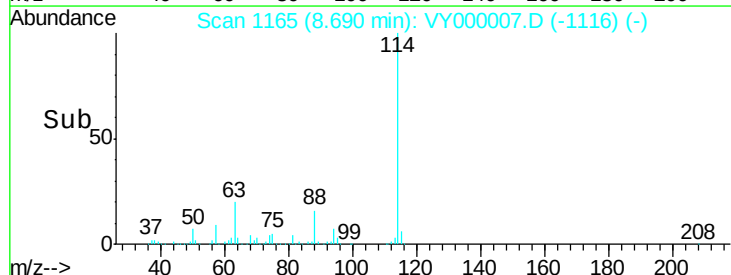
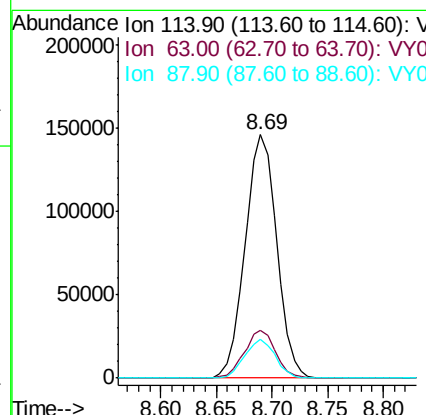
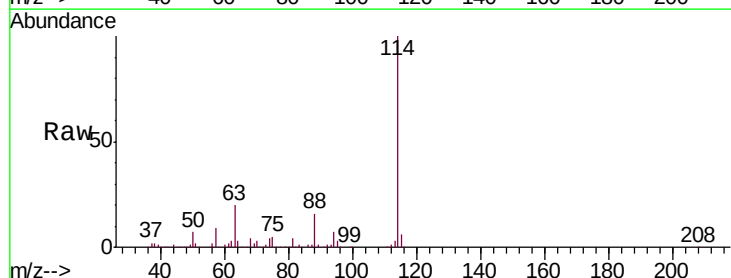
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC150

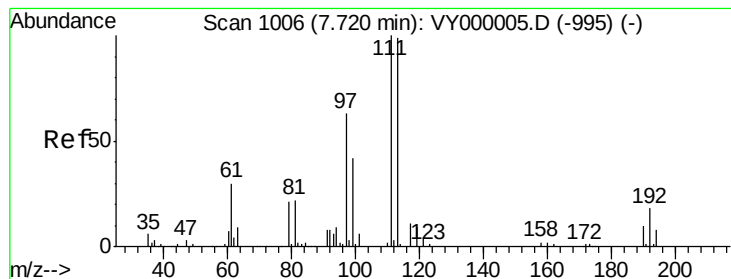
Tgt Ion: 65 Resp: 235602  
 Ion Ratio Lower Upper  
 65 100  
 67 53.2 0.0 111.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.69 min Scan# 1165  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

Tgt Ion: 114 Resp: 289371  
 Ion Ratio Lower Upper  
 114 100  
 63 19.7 0.0 37.4  
 88 16.1 0.0 32.6





#35

Dibromofluoromethane

Concen: 133.642 ug/l

RT: 7.72 min Scan# 1006

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

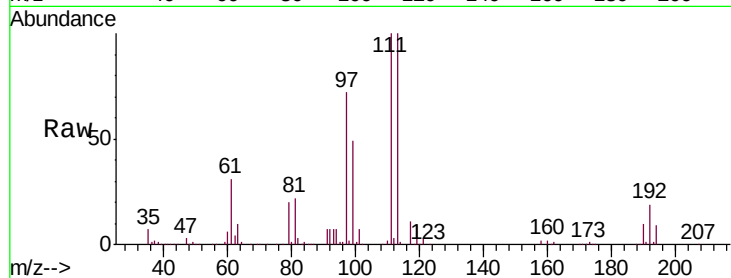
Tgt Ion:113 Resp: 228045

Ion Ratio Lower Upper

113 100

111 103.9 81.6 122.4

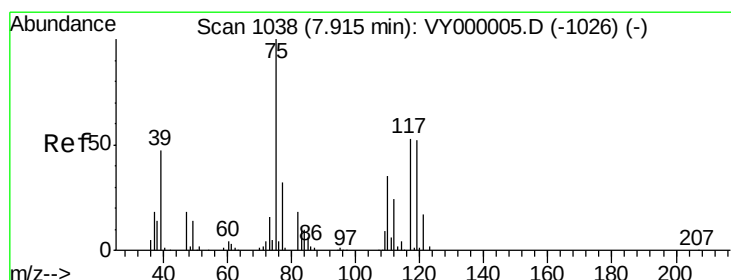
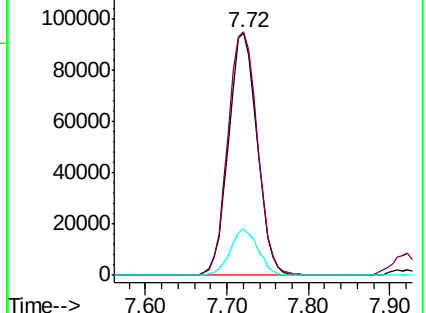
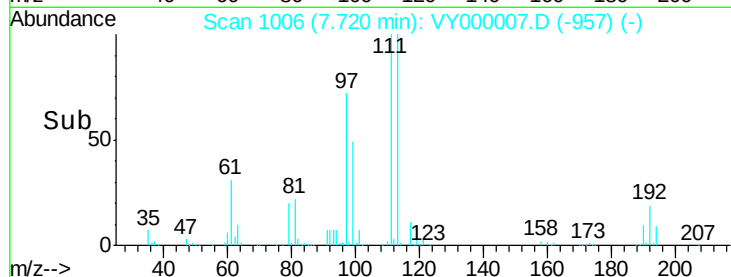
192 18.7 15.2 22.8



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 118.022 ug/l

RT: 7.92 min Scan# 1038

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

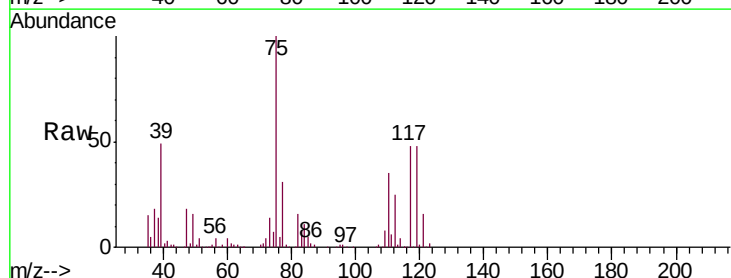
Tgt Ion: 75 Resp: 289217

Ion Ratio Lower Upper

75 100

110 37.1 18.7 56.1

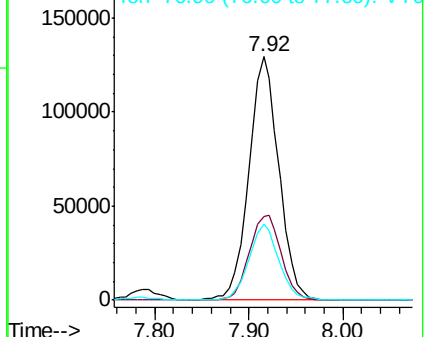
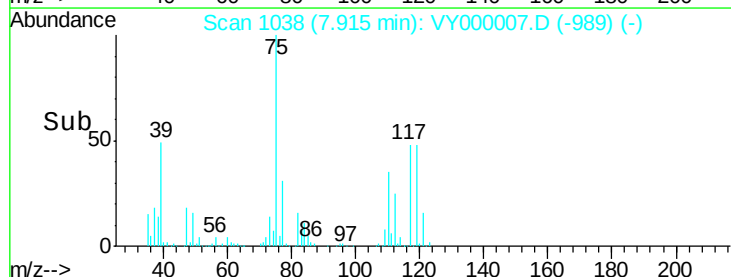
77 31.5 25.6 38.4

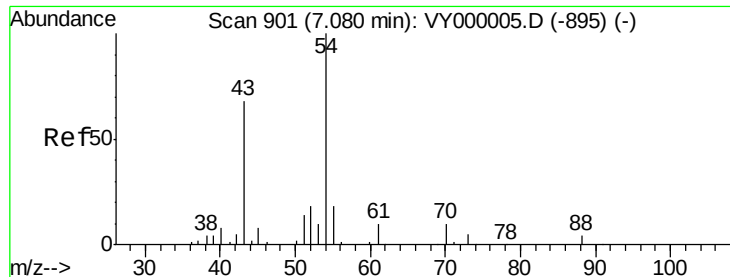


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0

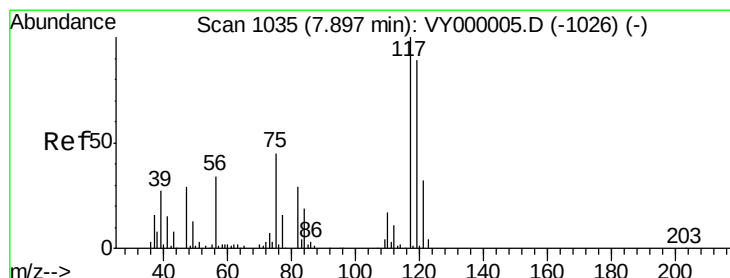
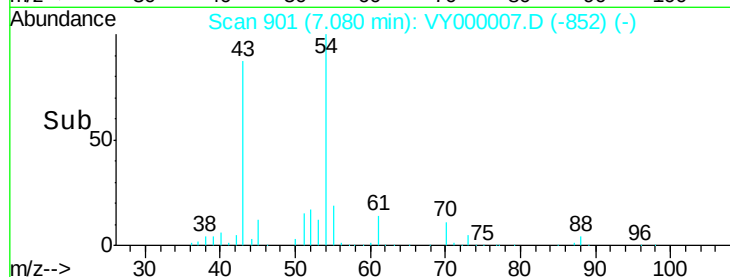
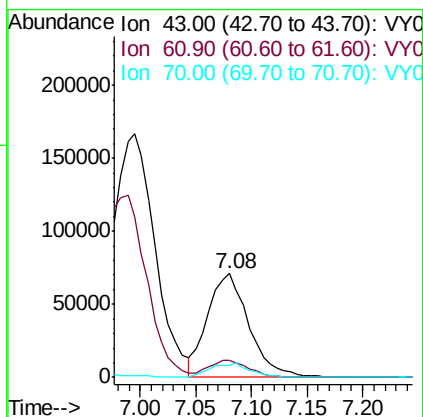
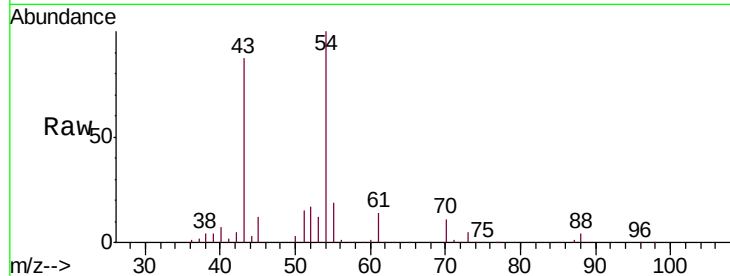




#37  
Ethyl Acetate  
Concen: 115.484 ug/l  
RT: 7.08 min Scan# 901  
Delta R.T. 0.00 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

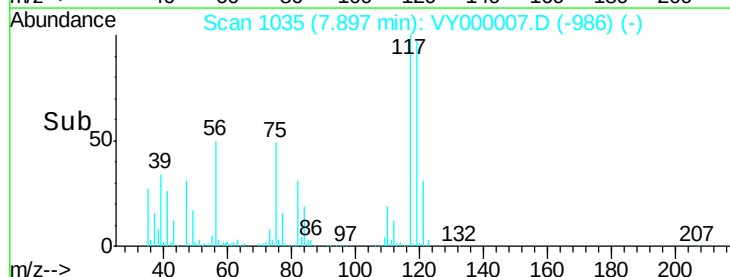
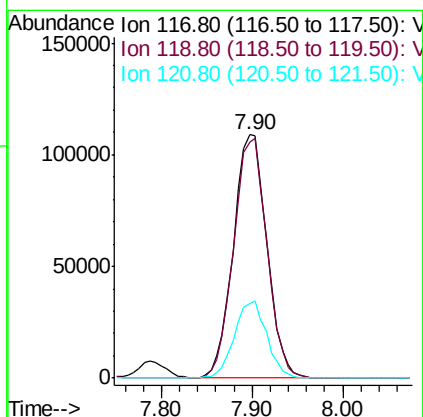
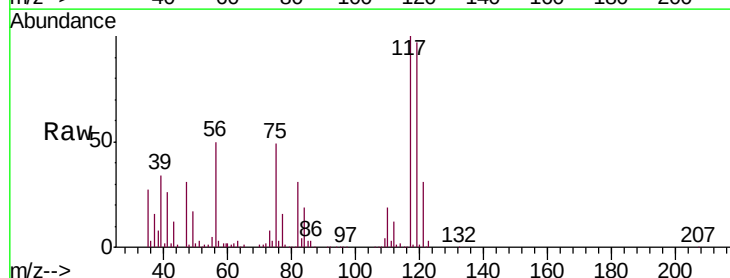
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150

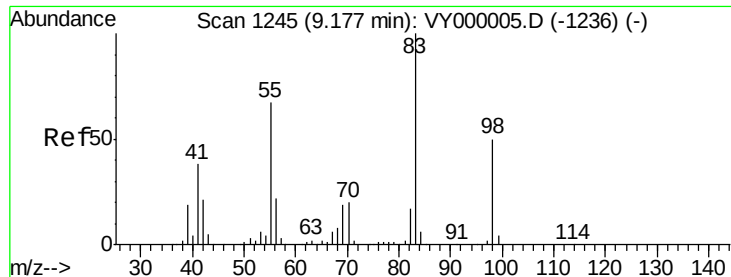
Tgt Ion: 43 Resp: 182190  
Ion Ratio Lower Upper  
43 100  
61 16.3 13.0 19.4  
70 13.5 11.0 16.4



#38  
Carbon Tetrachloride  
Concen: 116.598 ug/l  
RT: 7.90 min Scan# 1035  
Delta R.T. 0.00 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

Tgt Ion: 117 Resp: 280624  
Ion Ratio Lower Upper  
117 100  
119 97.1 71.5 107.3  
121 30.5 25.3 37.9

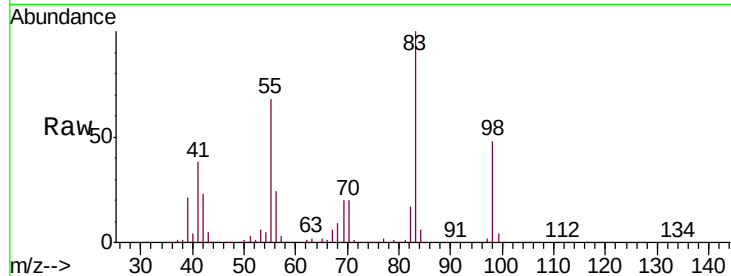




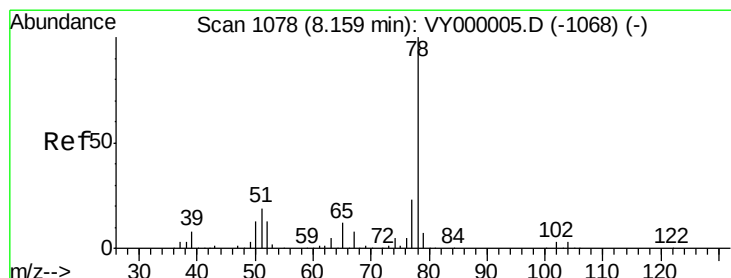
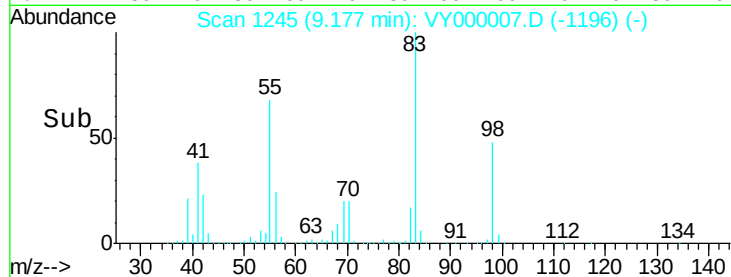
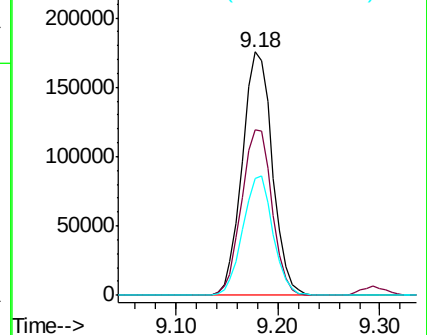
#39  
Methylcyclohexane  
Concen: 128.468 ug/l  
RT: 9.18 min Scan# 1245  
Delta R.T. 0.00 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150

Tgt Ion: 83 Resp: 360069  
Ion Ratio Lower Upper  
83 100  
55 67.8 53.8 80.6  
98 47.8 40.0 60.0

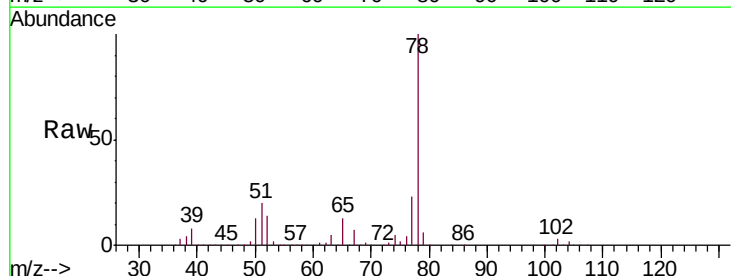


Abundance Ion 83.00 (82.70 to 83.70): VY0  
Ion 55.00 (54.70 to 55.70): VY0  
Ion 98.00 (97.70 to 98.70): VY0

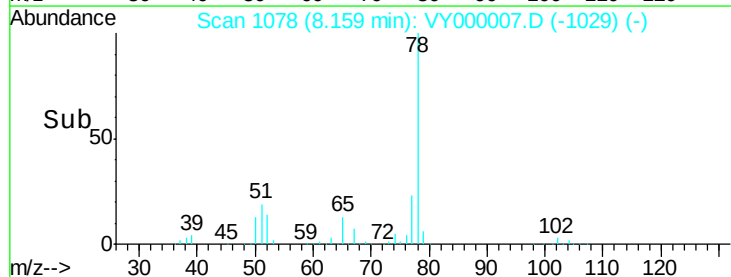
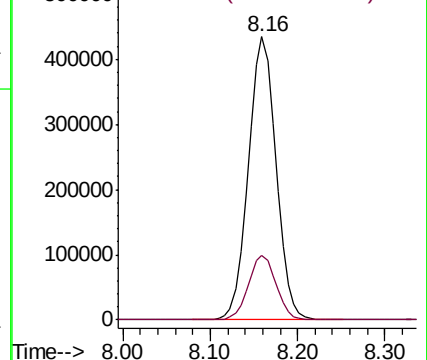


#40  
Benzene  
Concen: 136.492 ug/l  
RT: 8.16 min Scan# 1078  
Delta R.T. 0.00 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

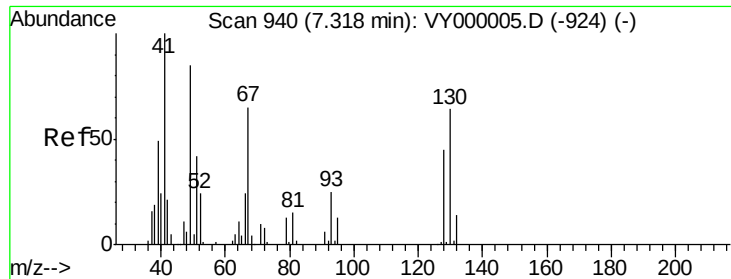
Tgt Ion: 78 Resp: 952039  
Ion Ratio Lower Upper  
78 100  
77 23.0 18.0 27.0



Abundance Ion 78.00 (77.70 to 78.70): VY0  
Ion 77.00 (76.70 to 77.70): VY0



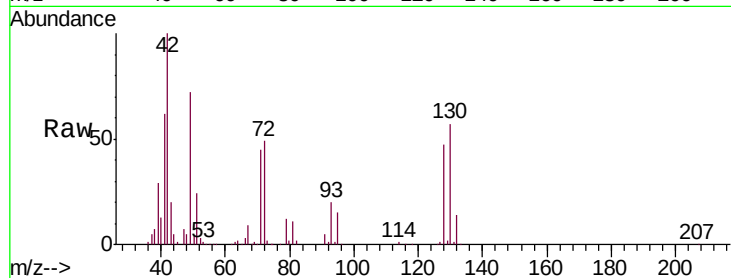




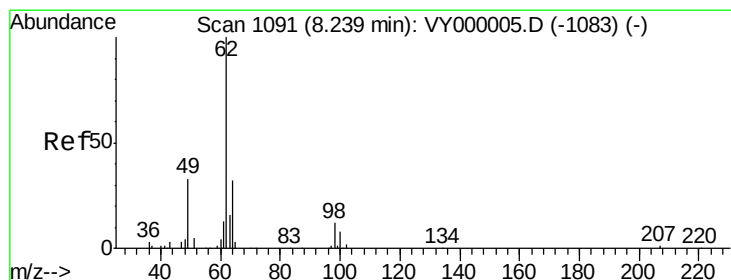
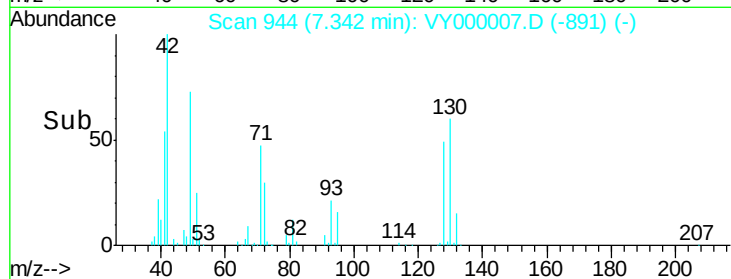
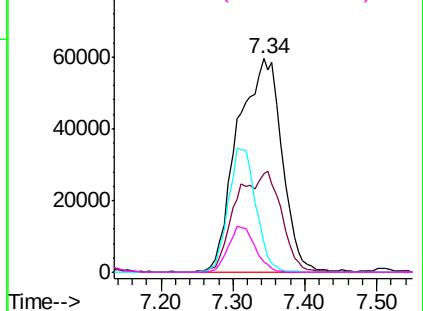
#41  
Methacrylonitrile  
Concen: 275.405 ug/l  
RT: 7.34 min Scan# 944  
Delta R.T. 0.02 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150

Tgt Ion: 41 Resp: 254590  
Ion Ratio Lower Upper  
41 100  
39 0.0 48.4 72.6#  
67 0.0 76.3 114.5#  
52 0.0 29.0 43.6#

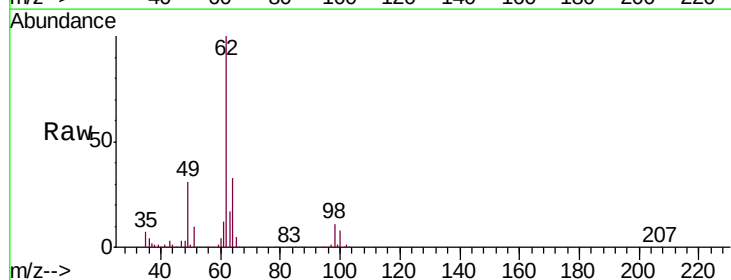


Abundance Ion 41.00 (40.70 to 41.70): VY0  
Ion 39.00 (38.70 to 39.70): VY0  
Ion 67.00 (66.70 to 67.70): VY0  
Ion 52.00 (51.70 to 52.70): VY0

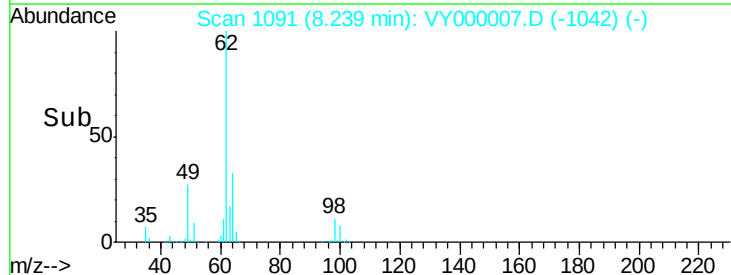
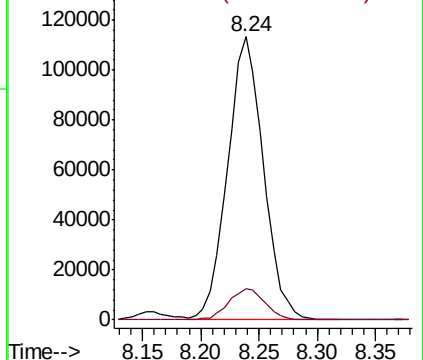


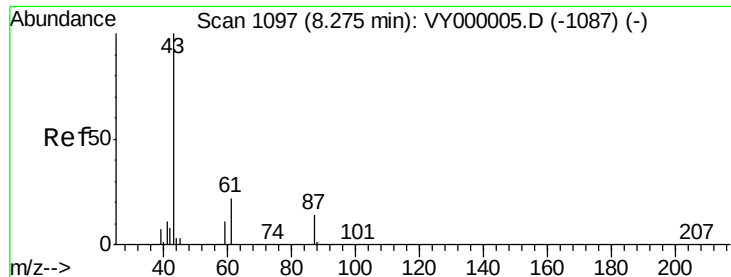
#42  
1,2-Dichloroethane  
Concen: 103.232 ug/l  
RT: 8.24 min Scan# 1091  
Delta R.T. 0.00 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

Tgt Ion: 62 Resp: 242517  
Ion Ratio Lower Upper  
62 100  
98 11.2 0.0 24.2



Abundance Ion 61.90 (61.60 to 62.60): VY0  
Ion 97.90 (97.60 to 98.60): VY0





#43

Isopropyl Acetate

Concen: 118.385 ug/l

RT: 8.28 min Scan# 1097

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

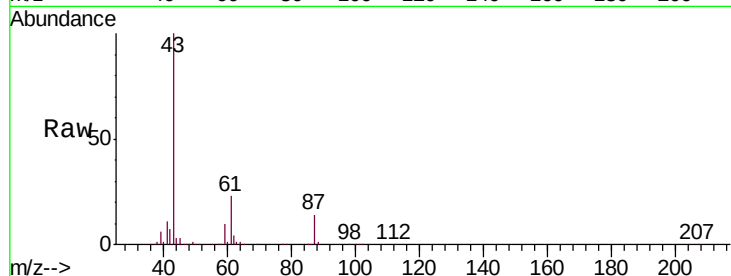
Tgt Ion: 43 Resp: 353178

Ion Ratio Lower Upper

43 100

61 30.4 25.2 37.8

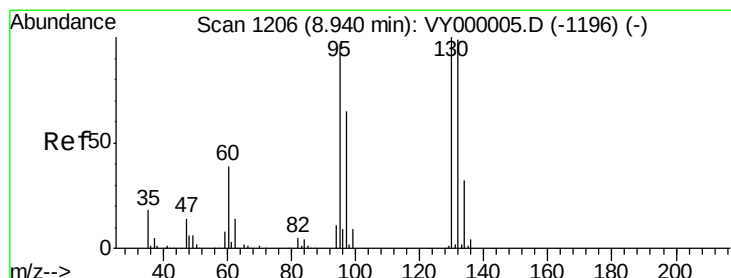
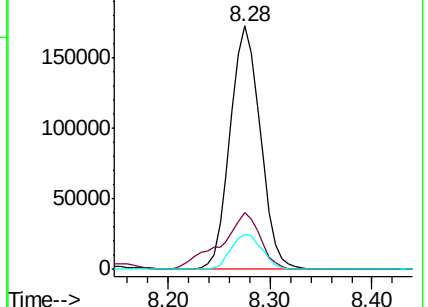
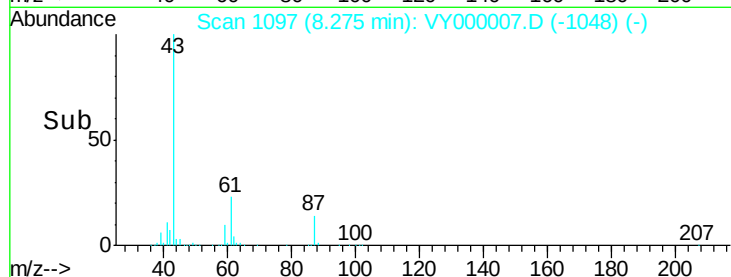
87 14.8 12.6 18.8



Abundance Ion 43.00 (42.70 to 43.70): VY000007.D (-1048) (-)

Ion 61.00 (60.70 to 61.70): VY000007.D (-1048) (-)

Ion 87.00 (86.70 to 87.70): VY000007.D (-1048) (-)



#44

Trichloroethene

Concen: 132.875 ug/l

RT: 8.94 min Scan# 1206

Delta R.T. 0.00 min

Lab File: VY000007.D

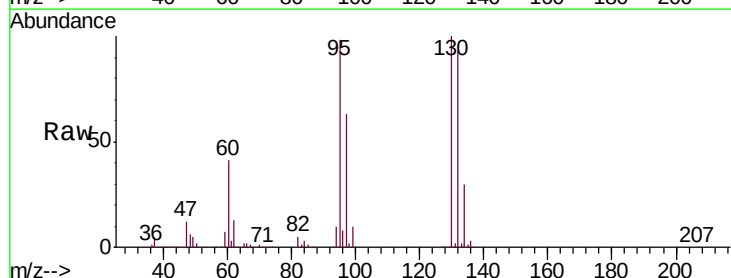
Acq: 11 Sep 2019 18:27

Tgt Ion: 130 Resp: 239364

Ion Ratio Lower Upper

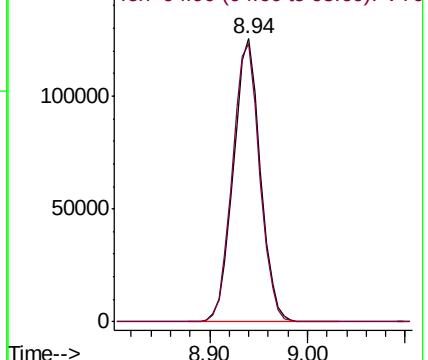
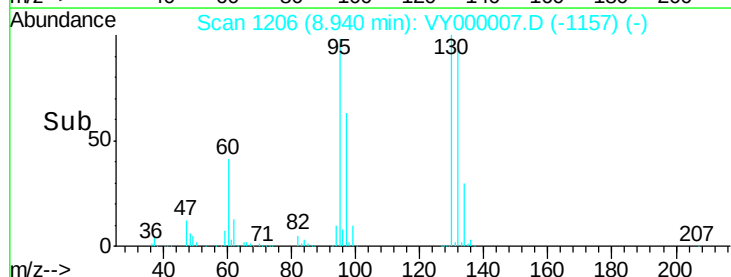
130 100

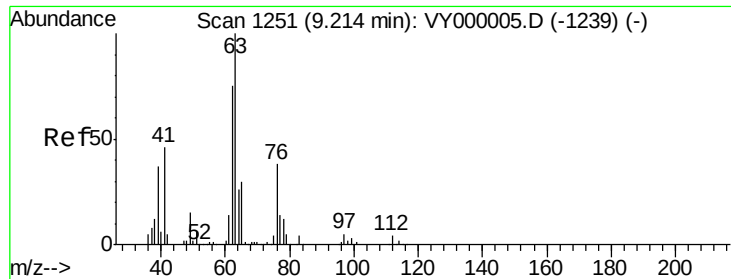
95 98.3 0.0 194.2



Abundance Ion 129.80 (129.50 to 130.50): VY000007.D (-1157) (-)

Ion 94.90 (94.60 to 95.60): VY000007.D (-1157) (-)

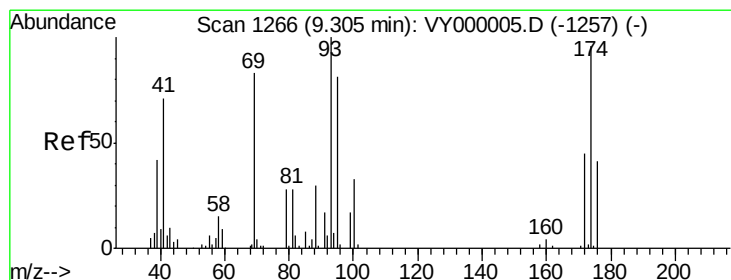
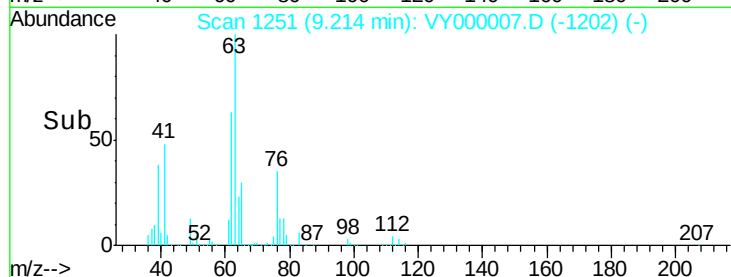
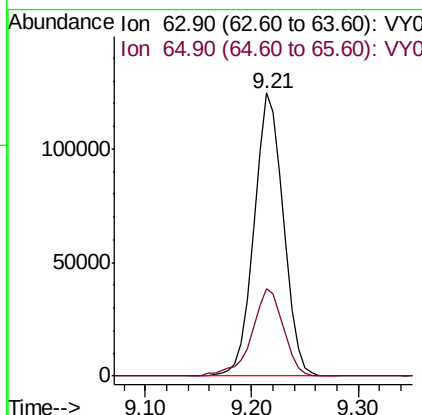
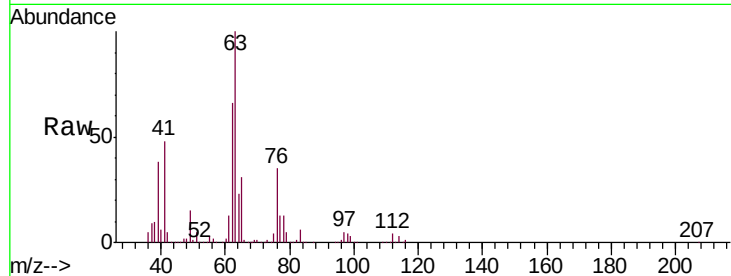




#45  
 1,2-Dichloropropane  
 Concen: 125.699 ug/l  
 RT: 9.21 min Scan# 1251  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

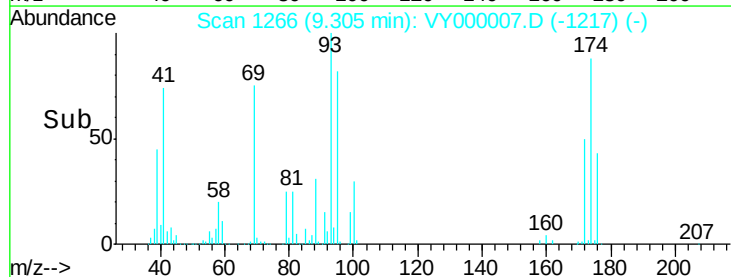
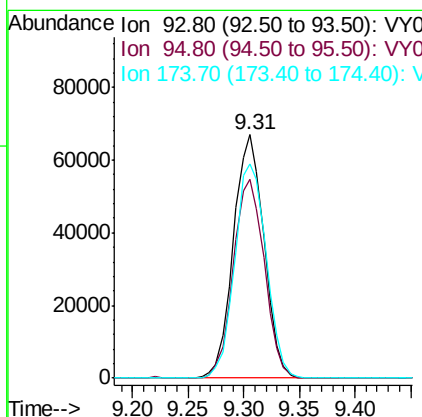
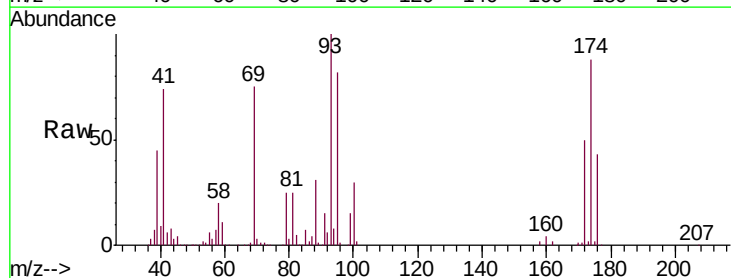
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC150

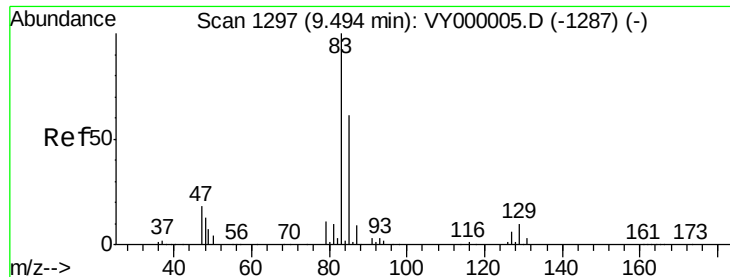
Tgt Ion: 63 Resp: 241348  
 Ion Ratio Lower Upper  
 63 100  
 65 30.8 24.3 36.5



#46  
 Dibromomethane  
 Concen: 137.439 ug/l  
 RT: 9.31 min Scan# 1266  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

Tgt Ion: 93 Resp: 126997  
 Ion Ratio Lower Upper  
 93 100  
 95 83.2 68.1 102.1  
 174 90.9 72.8 109.2





#47

Bromodichloromethane

Concen: 126.701 ug/l

RT: 9.49 min Scan# 1297

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

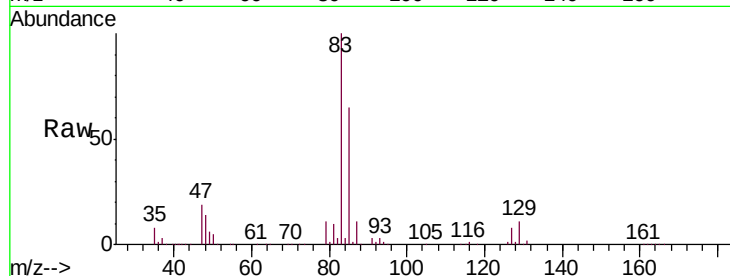
Tgt Ion: 83 Resp: 315693

Ion Ratio Lower Upper

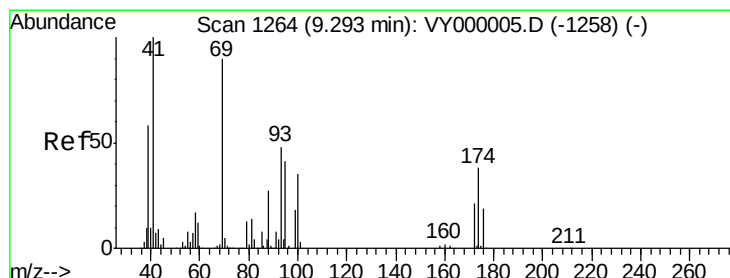
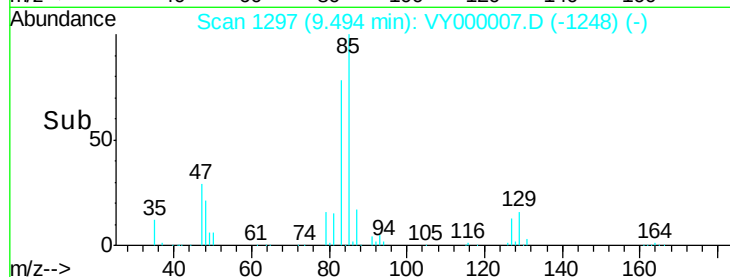
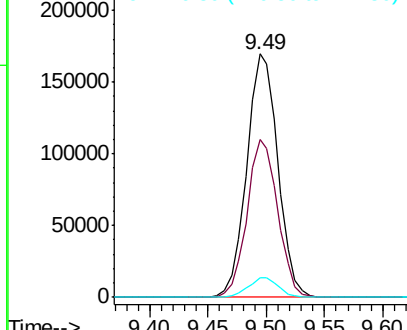
83 100

85 64.8 49.2 73.8

127 8.1 5.0 7.6#



Abundance Ion 82.90 (82.60 to 83.60): VY0  
Ion 84.90 (84.60 to 85.60): VY0  
Ion 126.80 (126.50 to 127.50): VY0



#48

Methyl methacrylate

Concen: 112.354 ug/l

RT: 9.29 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

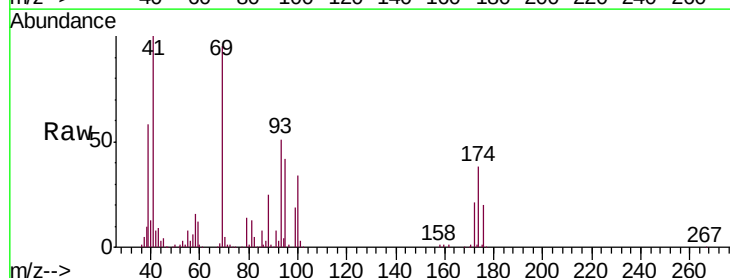
Tgt Ion: 41 Resp: 159859

Ion Ratio Lower Upper

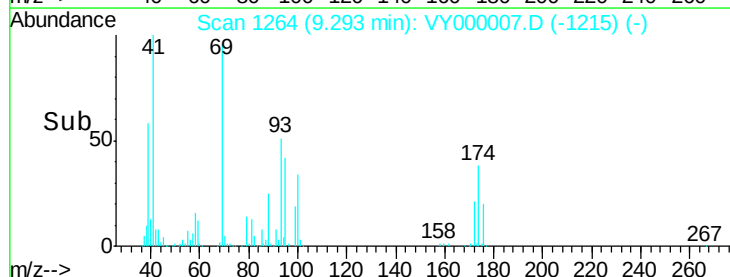
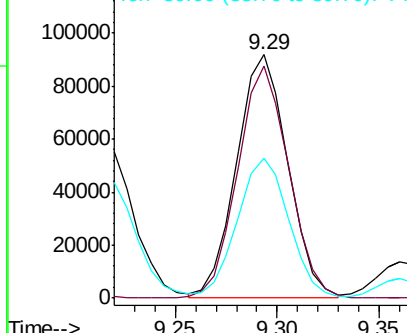
41 100

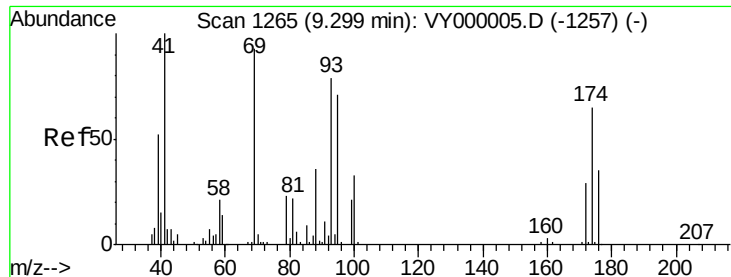
69 95.3 77.4 116.2

39 58.1 47.4 71.2



Abundance Ion 41.00 (40.70 to 41.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 39.00 (38.70 to 39.70): VY0

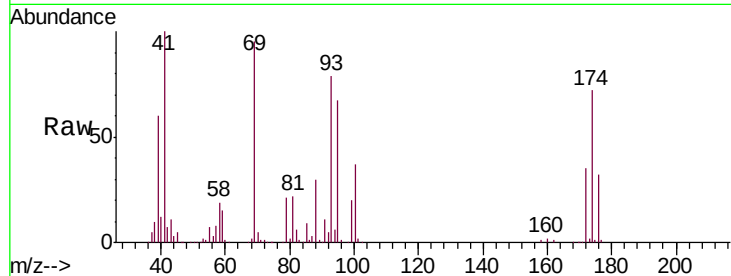




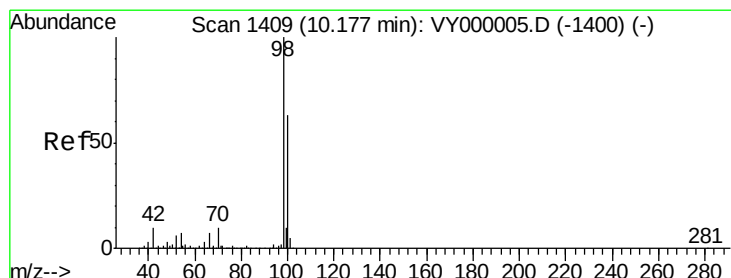
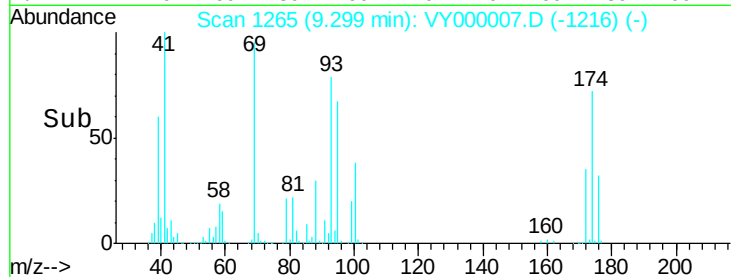
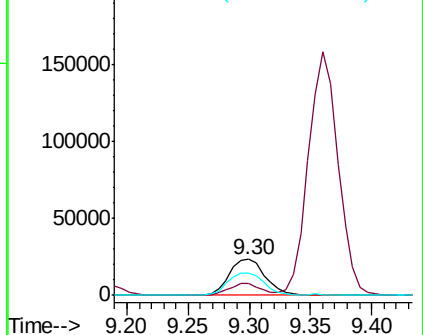
#49  
 1,4-Dioxane  
 Concen: 2543.569 ug/l  
 RT: 9.30 min Scan# 1265  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC150

Tgt Ion: 88 Resp: 47633  
 Ion Ratio Lower Upper  
 88 100  
 43 30.3 23.4 35.2  
 58 63.8 46.1 69.1

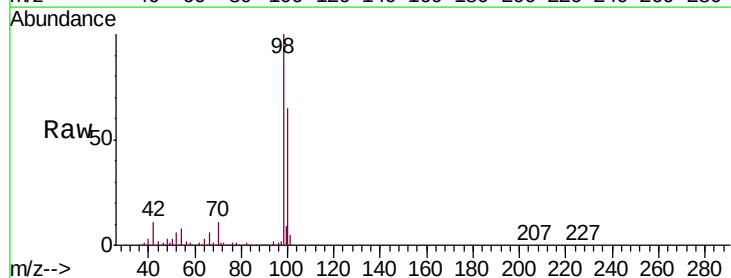


Abundance Ion 88.00 (87.70 to 88.70): VY0  
 Ion 43.00 (42.70 to 43.70): VY0  
 Ion 58.00 (57.70 to 58.70): VY0

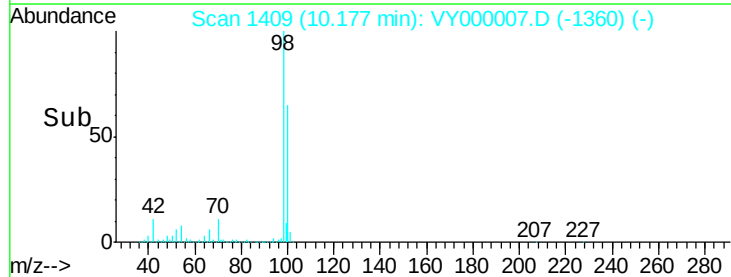
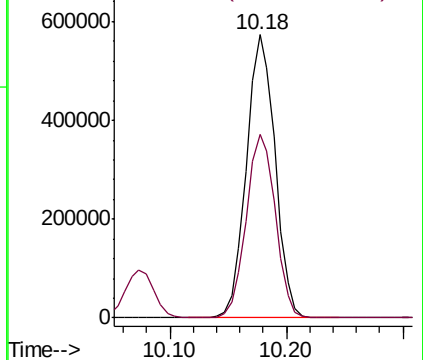


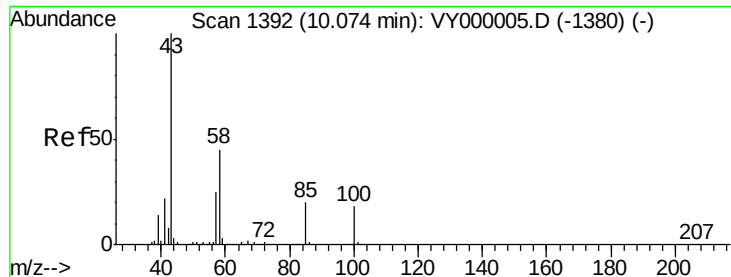
#50  
 Toluene-d8  
 Concen: 145.738 ug/l  
 RT: 10.18 min Scan# 1409  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

Tgt Ion: 98 Resp: 987024  
 Ion Ratio Lower Upper  
 98 100  
 100 65.7 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VY0  
 Ion 100.00 (99.70 to 100.70): VY0





#51

4-Methyl-2-Pentanone

Concen: 605.656 ug/l

RT: 10.07 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

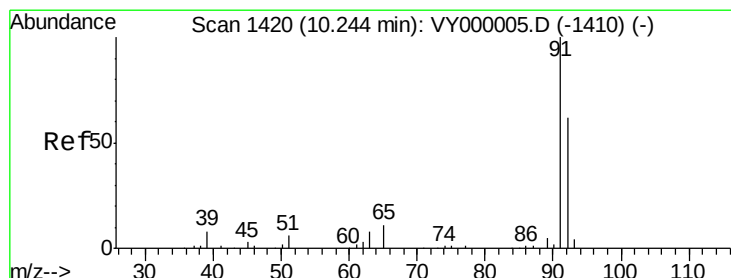
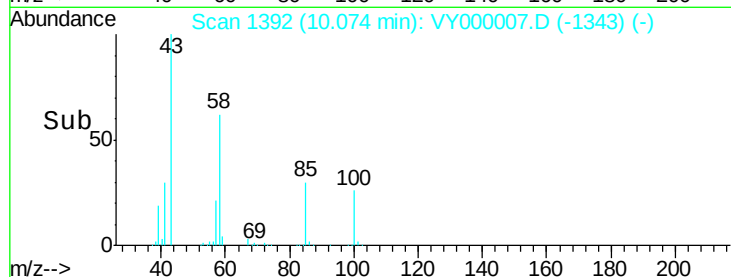
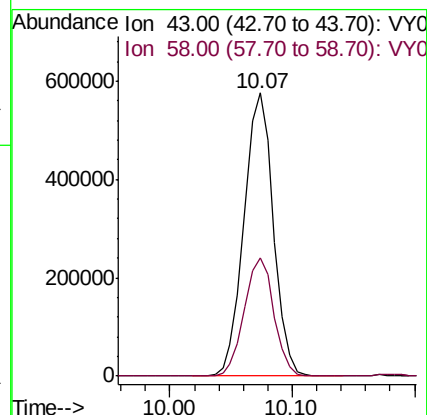
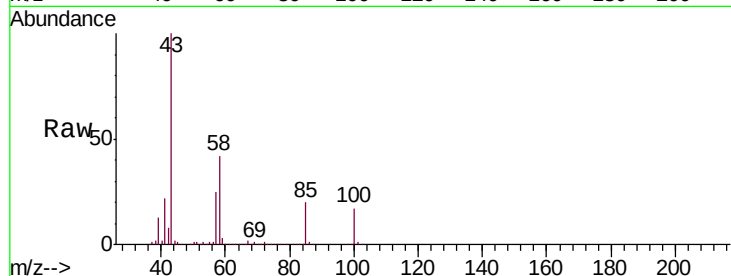
VSTDIC150

Tgt Ion: 43 Resp: 957131

Ion Ratio Lower Upper

43 100

58 42.2 34.1 51.1



#52

Toluene

Concen: 138.298 ug/l

RT: 10.24 min Scan# 1420

Delta R.T. 0.00 min

Lab File: VY000007.D

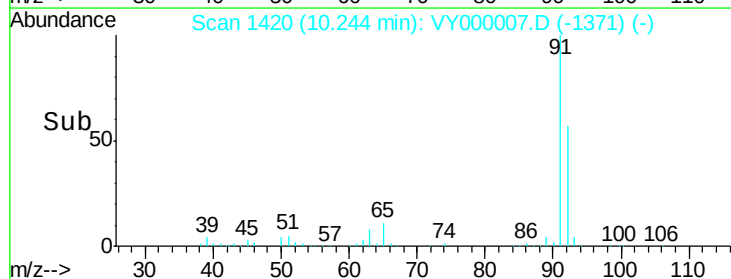
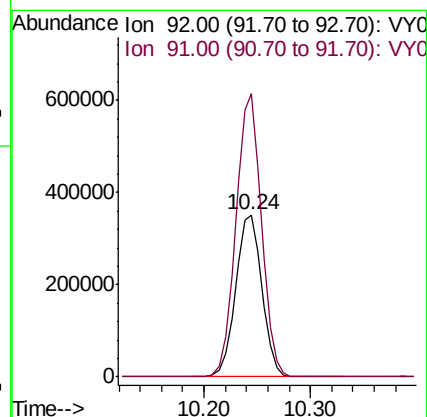
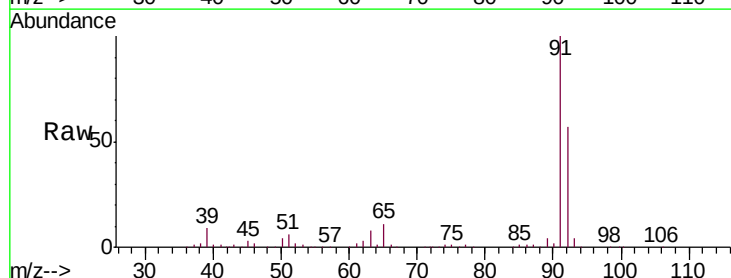
Acq: 11 Sep 2019 18:27

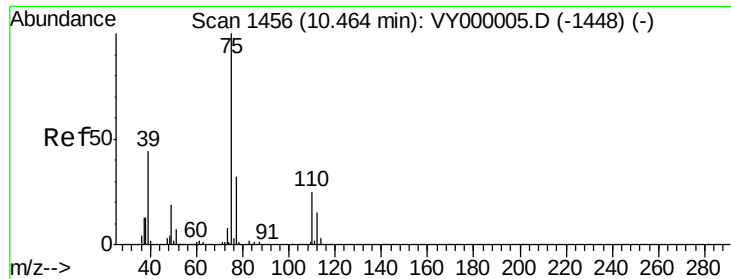
Tgt Ion: 92 Resp: 603258

Ion Ratio Lower Upper

92 100

91 170.8 136.5 204.7





#53

t-1,3-Dichloropropene

Concen: 130.842 ug/l

RT: 10.46 min Scan# 1456

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

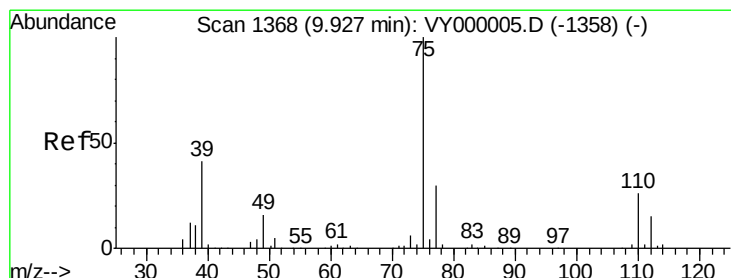
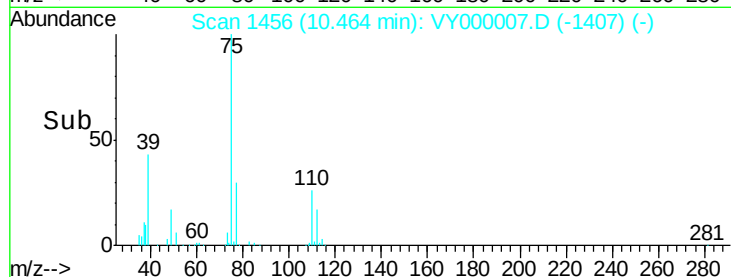
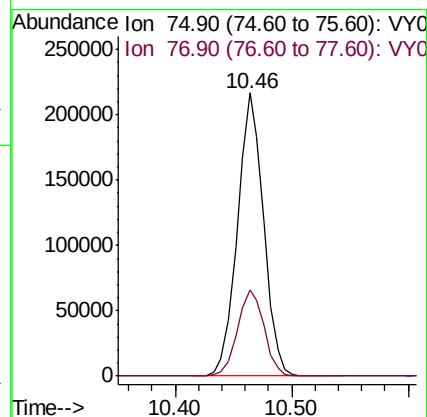
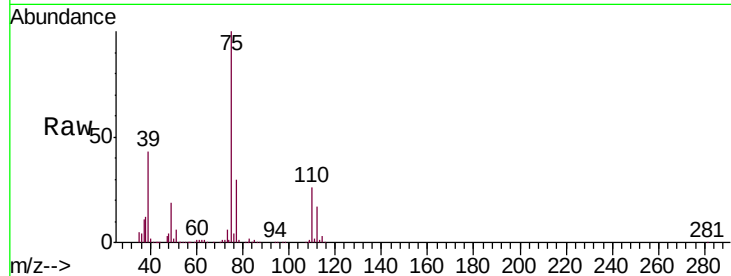
VSTDIC150

Tgt Ion: 75 Resp: 337166

Ion Ratio Lower Upper

75 100

77 30.3 25.8 38.8



#54

cis-1,3-Dichloropropene

Concen: 130.488 ug/l

RT: 9.93 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

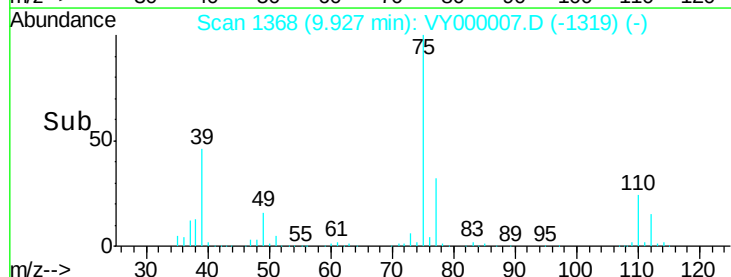
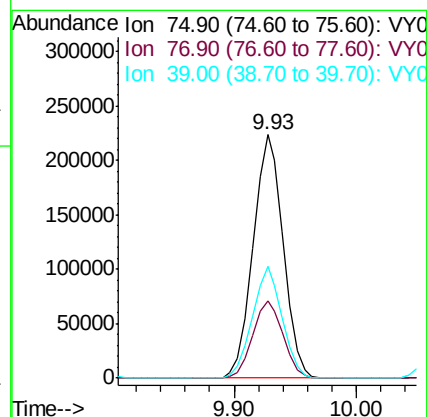
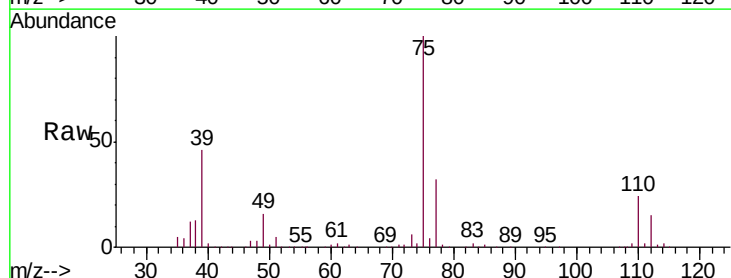
Tgt Ion: 75 Resp: 381330

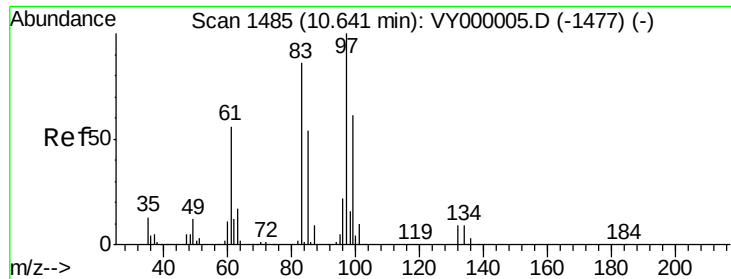
Ion Ratio Lower Upper

75 100

77 31.8 24.1 36.1

39 45.7 33.0 49.4

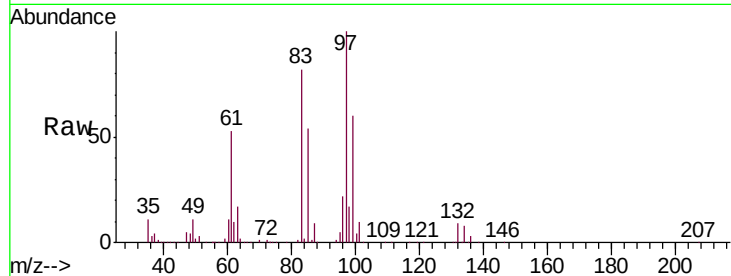




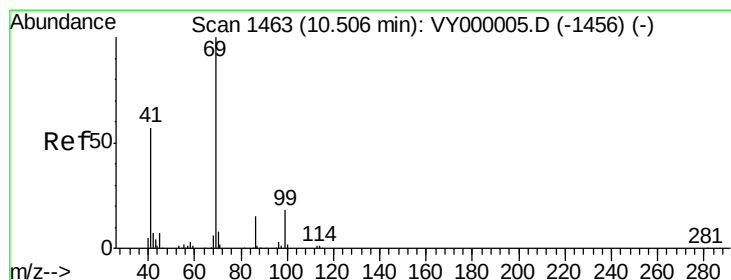
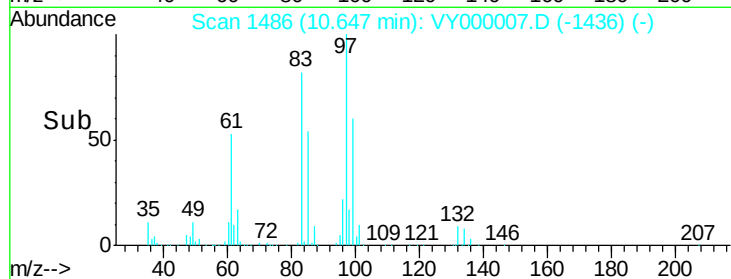
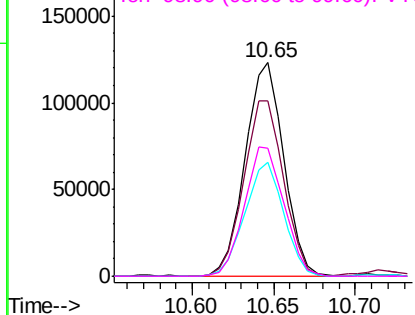
#55  
 1,1,2-Trichloroethane  
 Concen: 144.916 ug/l  
 RT: 10.65 min Scan# 1486  
 Delta R.T. 0.01 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC150

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 202096 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 82.3  | 68.4  | 102.6  |
| 85       | 53.6  | 43.0  | 64.6   |
| 99       | 59.9  | 48.8  | 73.2   |

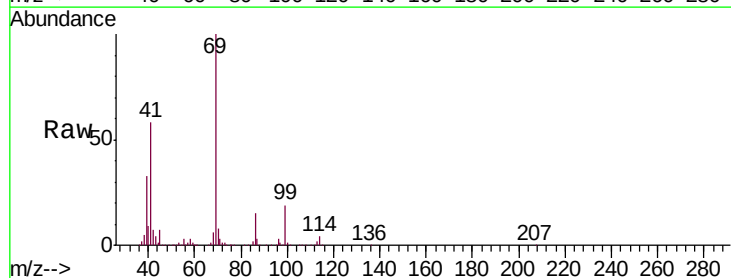


Abundance Ion 96.90 (96.60 to 97.60): VY0  
 Ion 82.90 (82.60 to 83.60): VY0  
 Ion 84.90 (84.60 to 85.60): VY0  
 Ion 98.90 (98.60 to 99.60): VY0

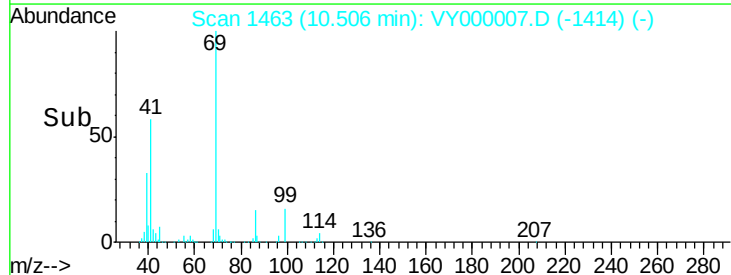
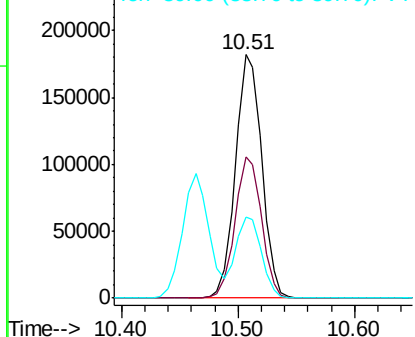


#56  
 Ethyl methacrylate  
 Concen: 140.565 ug/l  
 RT: 10.51 min Scan# 1463  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

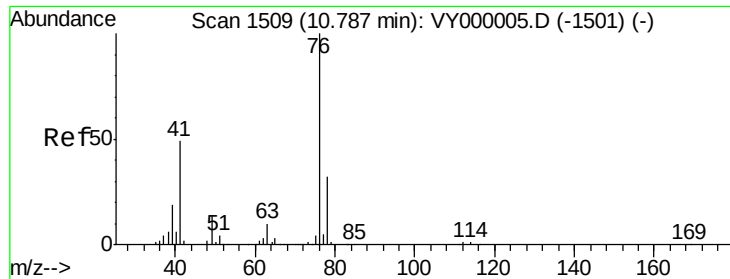
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 69    | Resp: | 285925 |
| Ion      | Ratio | Lower | Upper  |
| 69       | 100   |       |        |
| 41       | 58.2  | 46.3  | 69.5   |
| 39       | 32.6  | 25.8  | 38.6   |



Abundance Ion 69.00 (68.70 to 69.70): VY0  
 Ion 41.00 (40.70 to 41.70): VY0  
 Ion 39.00 (38.70 to 39.70): VY0



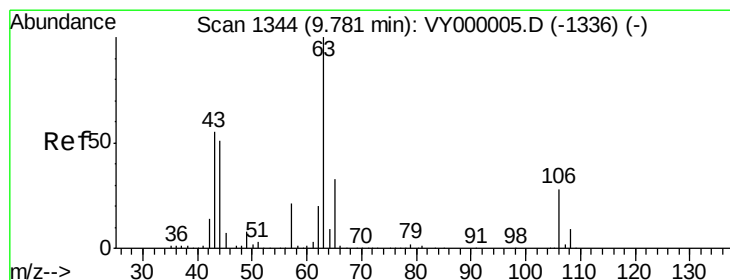
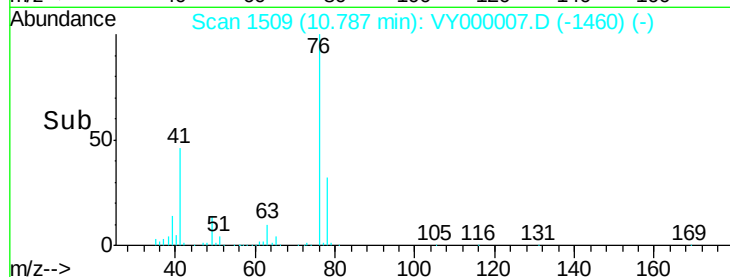
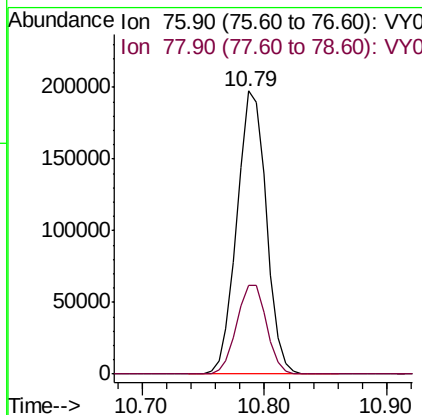
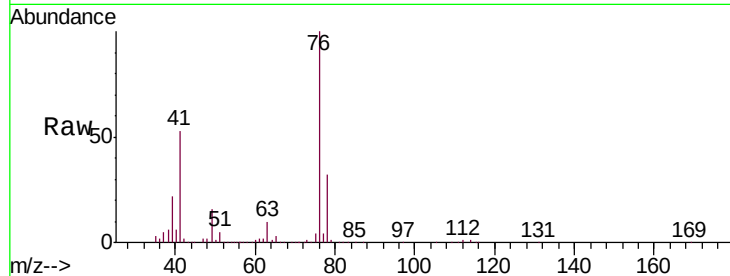




#57  
 1,3-Dichloropropane  
 Concen: 129.099 ug/l  
 RT: 10.79 min Scan# 1509  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

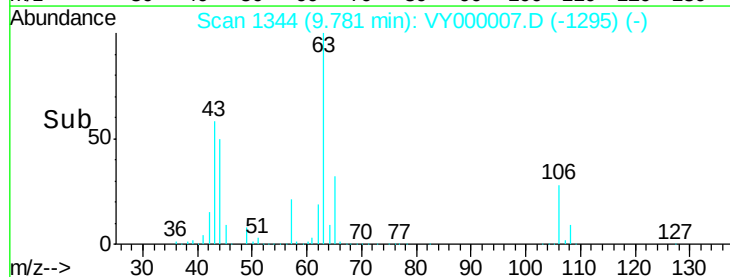
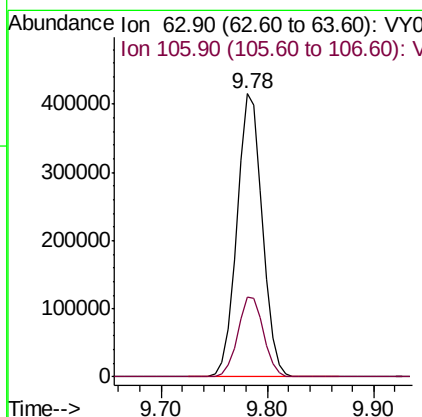
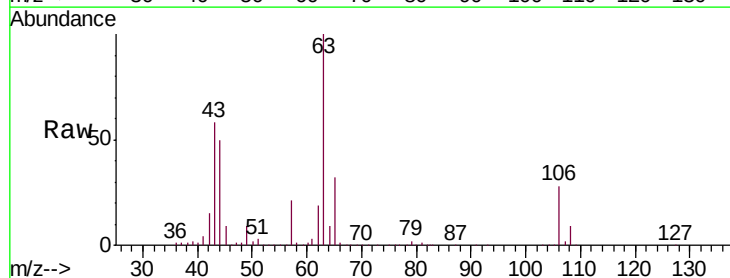
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC150

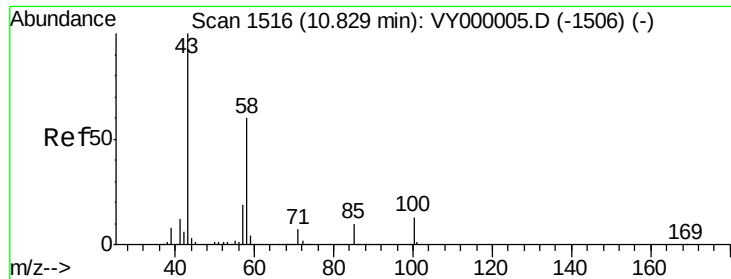
Tgt Ion: 76 Resp: 327970  
 Ion Ratio Lower Upper  
 76 100  
 78 32.1 26.1 39.1



#58  
 2-Chloroethyl Vinyl ether  
 Concen: 638.620 ug/l  
 RT: 9.78 min Scan# 1344  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

Tgt Ion: 63 Resp: 695174  
 Ion Ratio Lower Upper  
 63 100  
 106 28.6 23.3 34.9

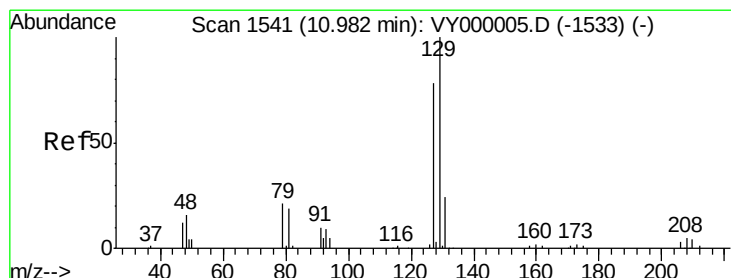
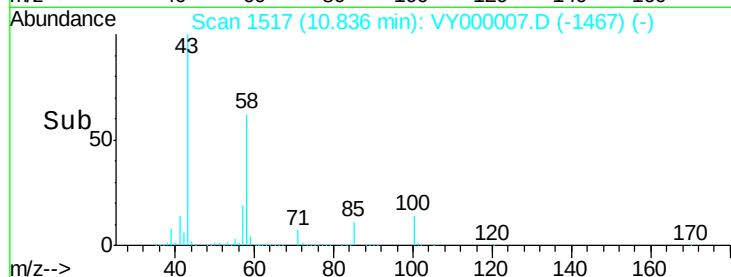
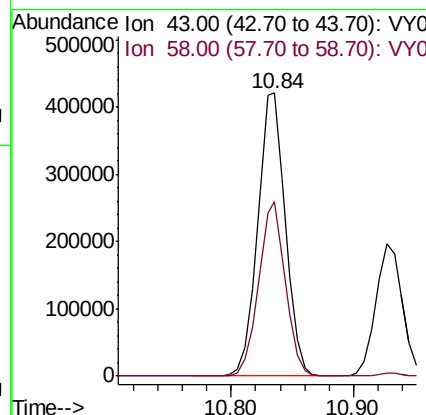
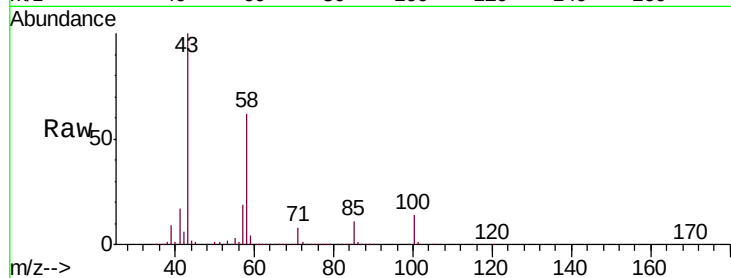




#59  
2-Hexanone  
Concen: 574.346 ug/l  
RT: 10.84 min Scan# 1517  
Delta R.T. 0.01 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

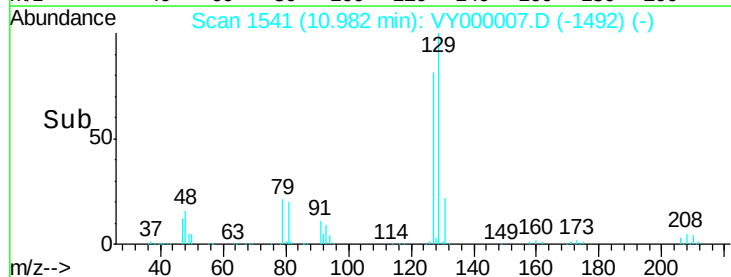
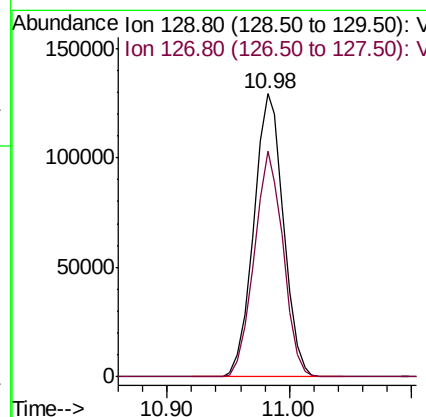
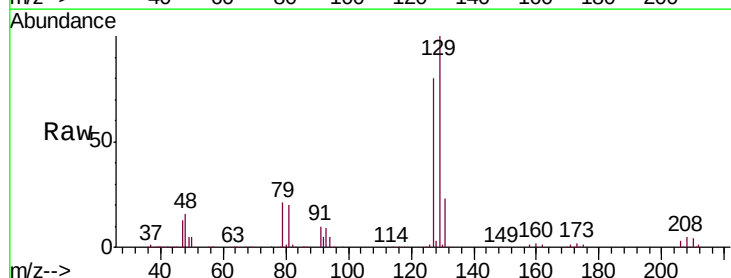
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150

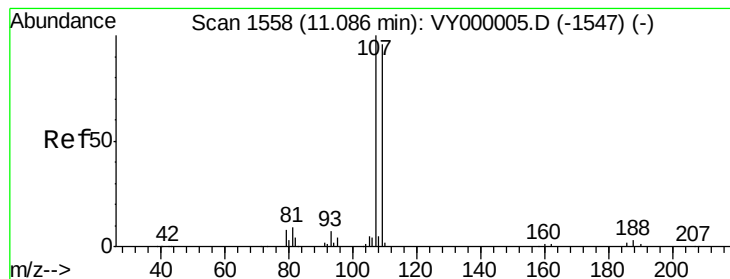
Tgt Ion: 43 Resp: 663023  
Ion Ratio Lower Upper  
43 100  
58 59.5 29.8 89.5



#60  
Dibromochloromethane  
Concen: 135.440 ug/l  
RT: 10.98 min Scan# 1541  
Delta R.T. 0.00 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

Tgt Ion: 129 Resp: 218537  
Ion Ratio Lower Upper  
129 100  
127 77.5 39.2 117.6





#61

1,2-Dibromoethane

Concen: 141.500 ug/l

RT: 11.09 min Scan# 1558

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

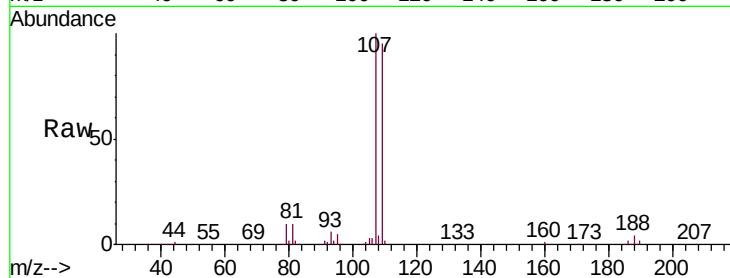
VSTDIC150

Tgt Ion: 107 Resp: 181488

Ion Ratio Lower Upper

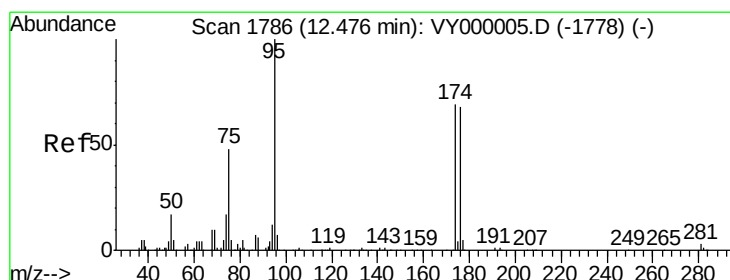
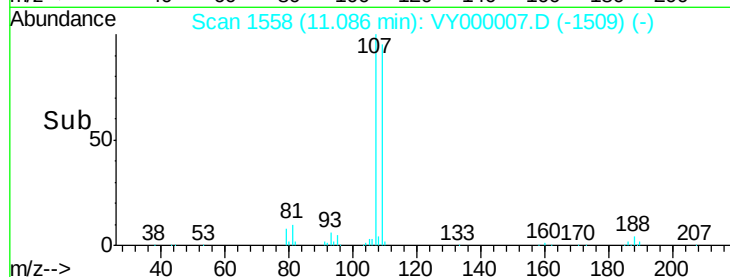
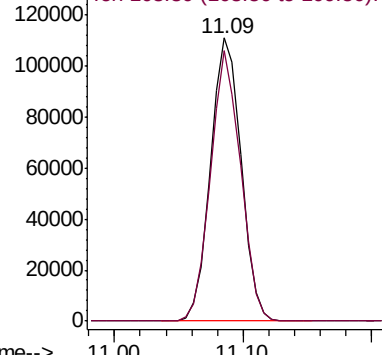
107 100

109 94.2 73.2 109.8



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 134.661 ug/l

RT: 12.48 min Scan# 1786

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

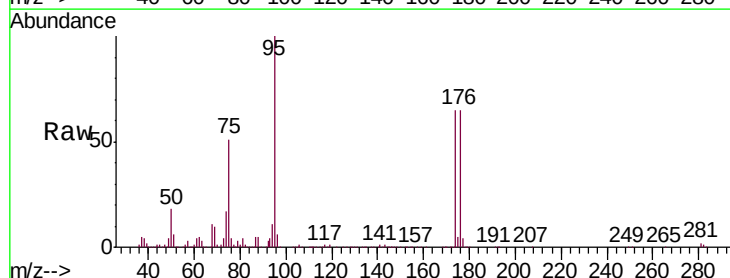
Tgt Ion: 95 Resp: 328040

Ion Ratio Lower Upper

95 100

174 70.9 0.0 145.8

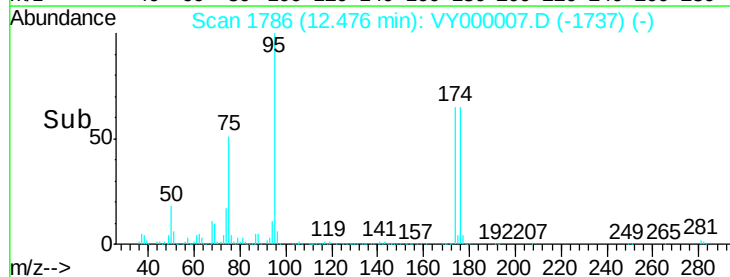
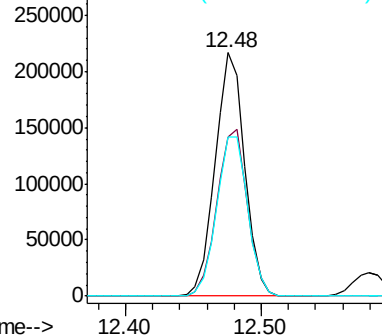
176 69.2 0.0 138.0

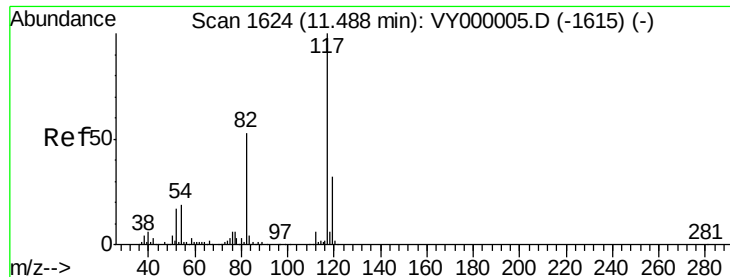


Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

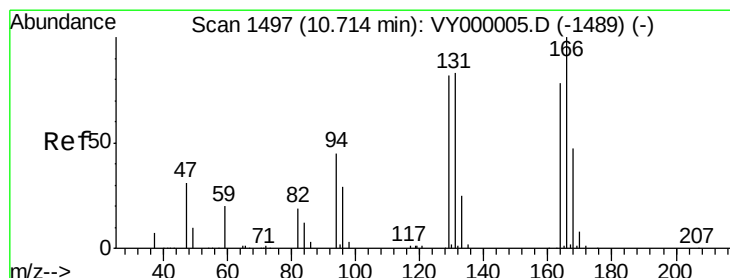
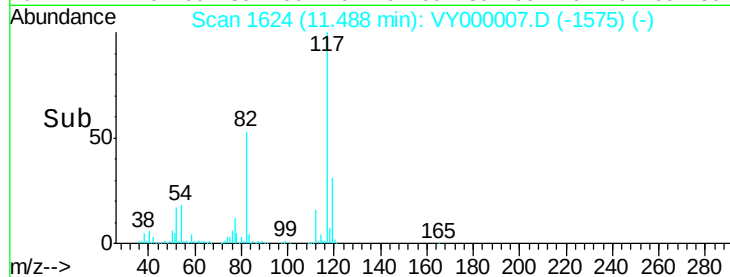
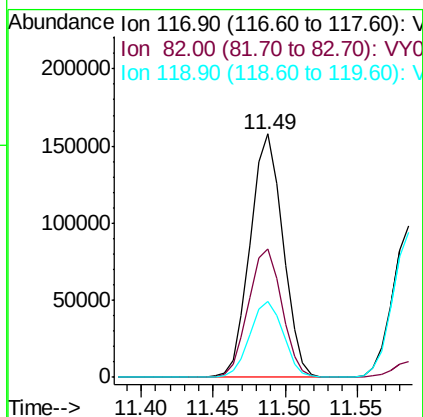
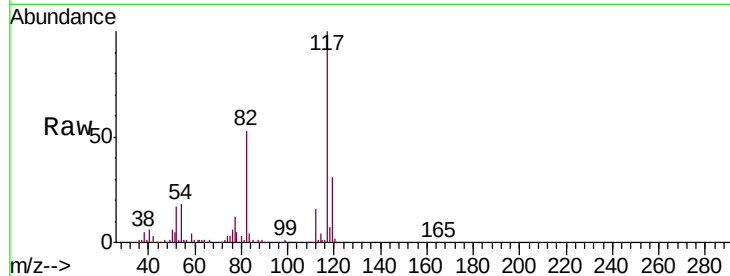




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1624  
Delta R.T. 0.00 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

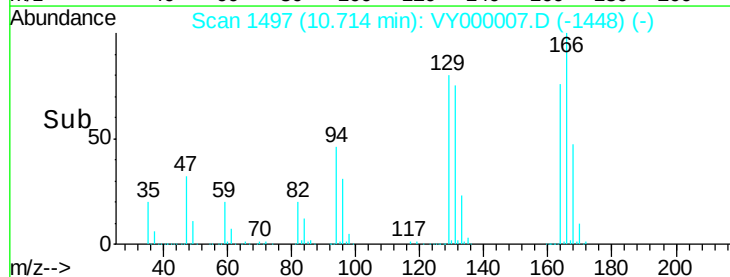
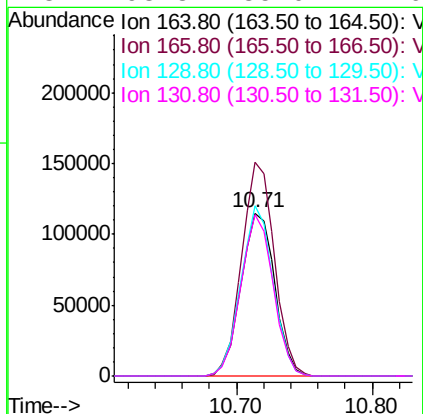
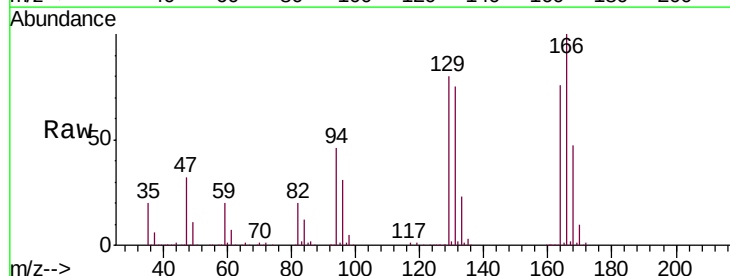
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150

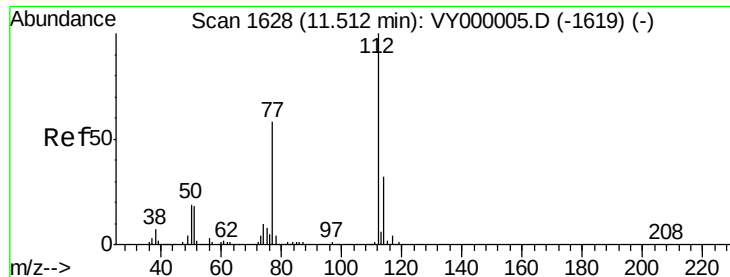
Tgt Ion:117 Resp: 248383  
Ion Ratio Lower Upper  
117 100  
82 53.0 42.3 63.5  
119 31.0 25.8 38.8



#64  
Tetrachloroethene  
Concen: 134.615 ug/l  
RT: 10.71 min Scan# 1497  
Delta R.T. 0.00 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

Tgt Ion:164 Resp: 199324  
Ion Ratio Lower Upper  
164 100  
166 130.9 102.5 153.7  
129 104.3 83.8 125.8  
131 98.8 85.0 127.6

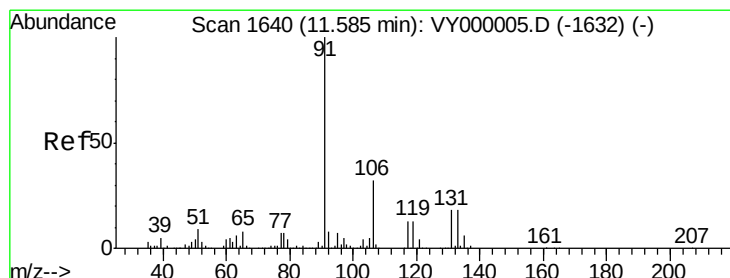
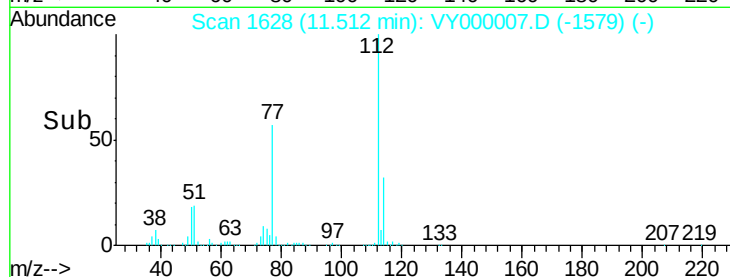
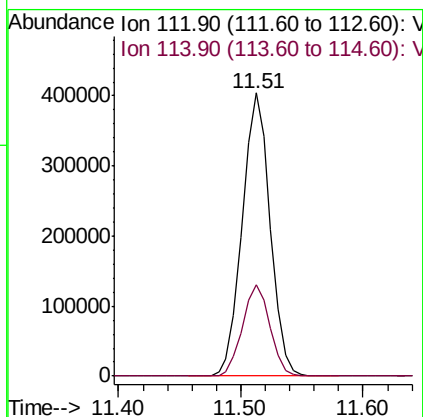
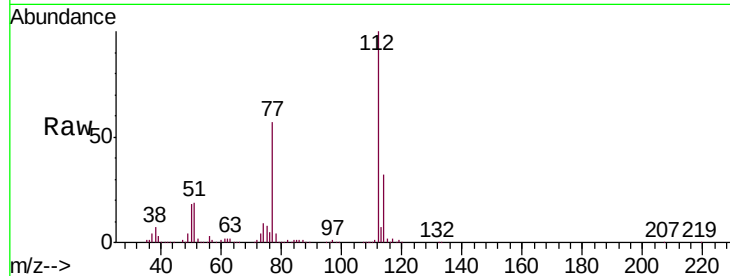




#65  
Chlorobenzene  
Concen: 137.695 ug/l  
RT: 11.51 min Scan# 1628  
Delta R.T. 0.00 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

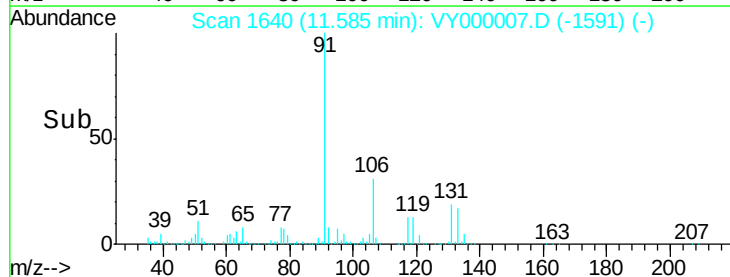
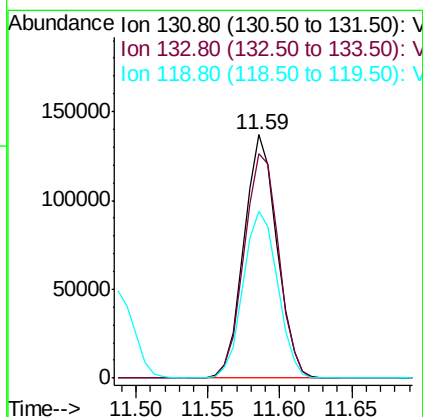
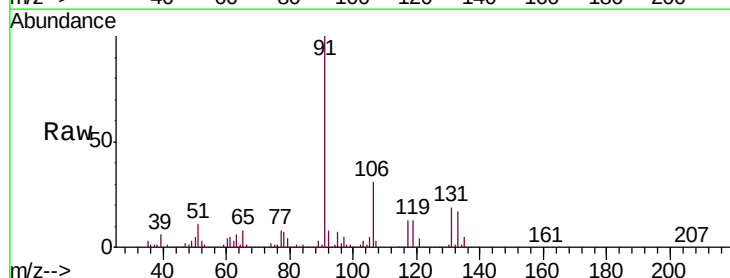
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150

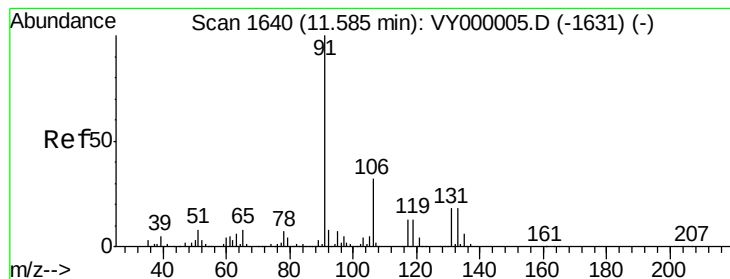
Tgt Ion:112 Resp: 637966  
Ion Ratio Lower Upper  
112 100  
114 32.2 25.4 38.2



#66  
1,1,1,2-Tetrachloroethane  
Concen: 128.336 ug/l  
RT: 11.59 min Scan# 1640  
Delta R.T. 0.00 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

Tgt Ion:131 Resp: 216981  
Ion Ratio Lower Upper  
131 100  
133 96.5 48.7 146.1  
119 71.3 35.8 107.3





#67

Ethyl Benzene

Concen: 136.529 ug/l

RT: 11.59 min Scan# 1641

Delta R.T. 0.01 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

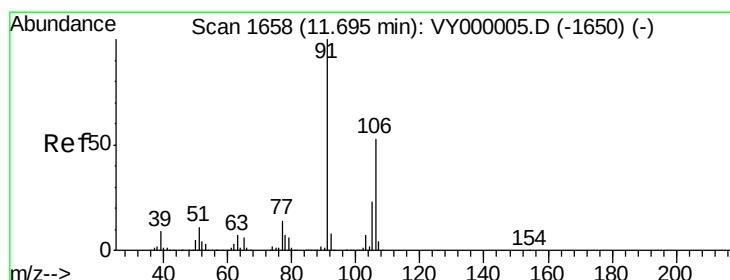
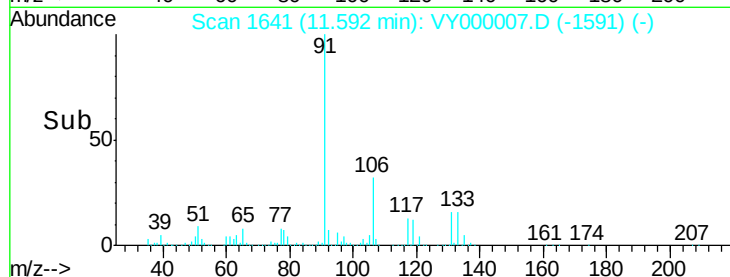
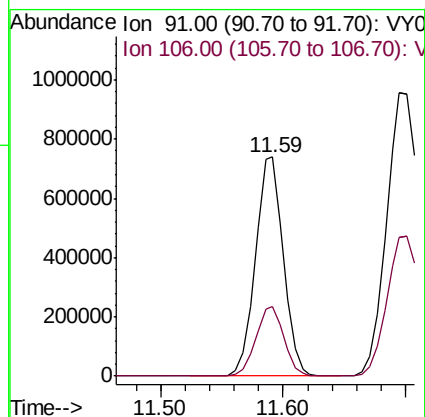
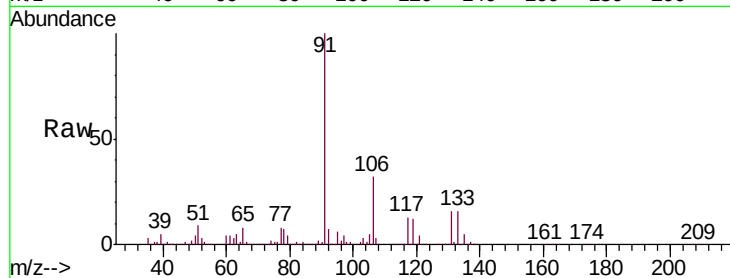
VSTDIC150

Tgt Ion: 91 Resp: 1175654

Ion Ratio Lower Upper

91 100

106 32.1 25.4 38.2



#68

m/p-Xylenes

Concen: 281.855 ug/l

RT: 11.70 min Scan# 1659

Delta R.T. 0.01 min

Lab File: VY000007.D

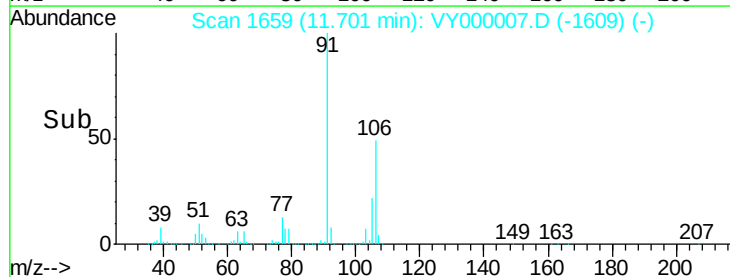
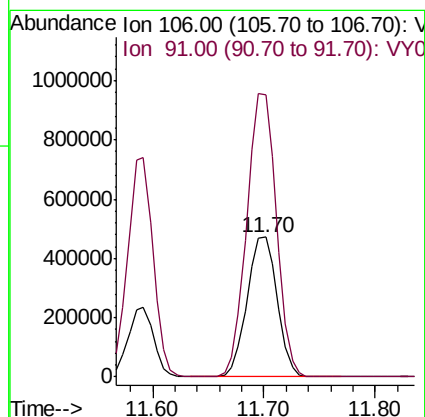
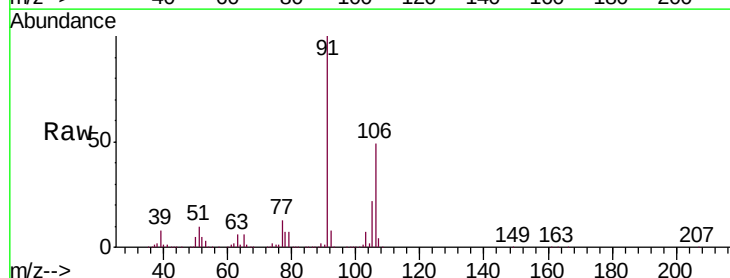
Acq: 11 Sep 2019 18:27

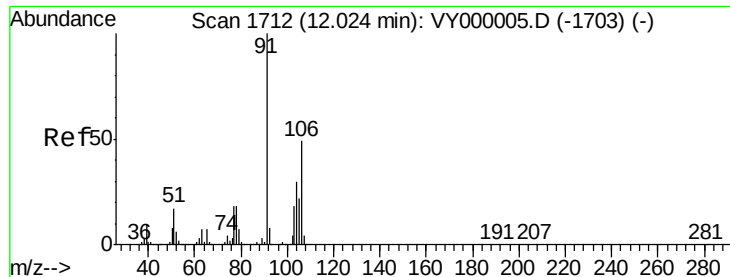
Tgt Ion: 106 Resp: 889432

Ion Ratio Lower Upper

106 100

91 199.4 157.1 235.7

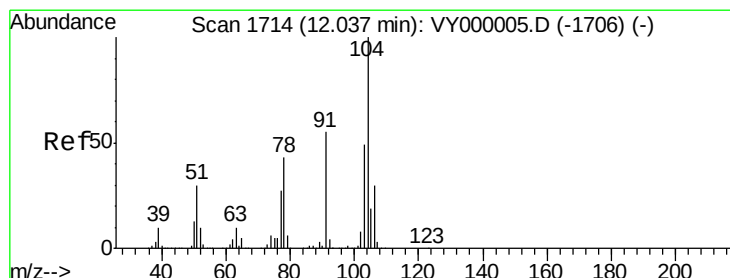
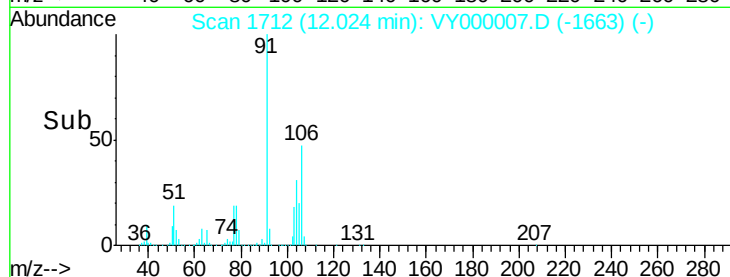
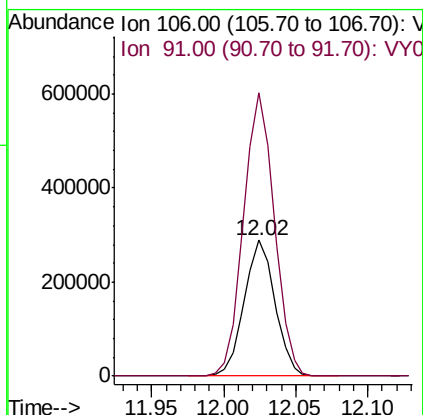
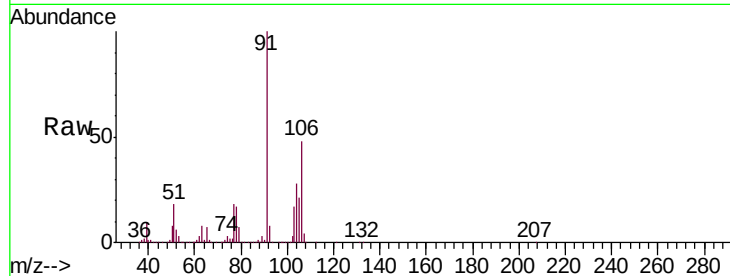




#69  
o-Xylene  
Concen: 143.604 ug/l  
RT: 12.02 min Scan# 1712  
Delta R.T. 0.00 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

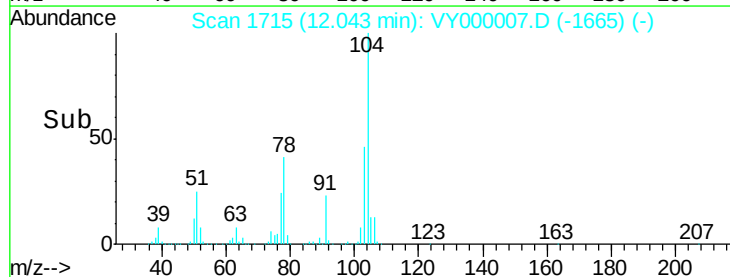
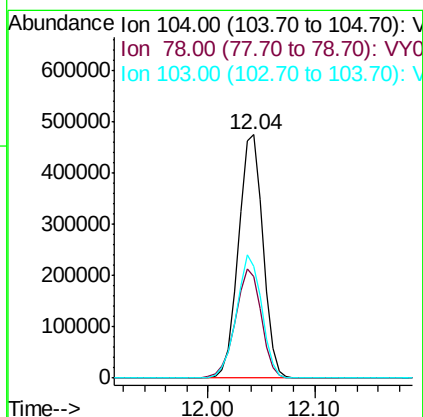
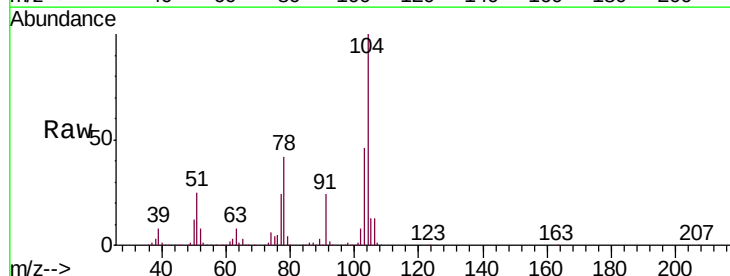
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150

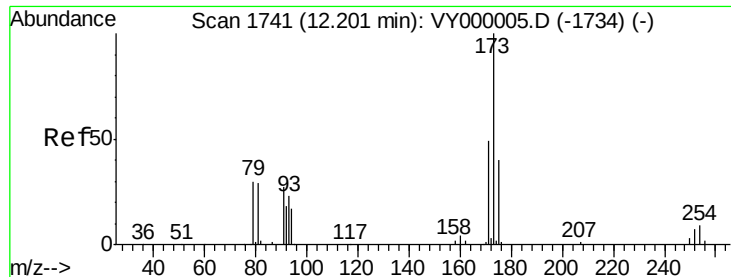
Tgt Ion:106 Resp: 426940  
Ion Ratio Lower Upper  
106 100  
91 209.3 100.6 301.8



#70  
Styrene  
Concen: 146.961 ug/l  
RT: 12.04 min Scan# 1715  
Delta R.T. 0.01 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

Tgt Ion:104 Resp: 768370  
Ion Ratio Lower Upper  
104 100  
78 47.5 37.6 56.4  
103 52.2 42.6 63.8





#71

Bromoform

Concen: 138.483 ug/l

RT: 12.20 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

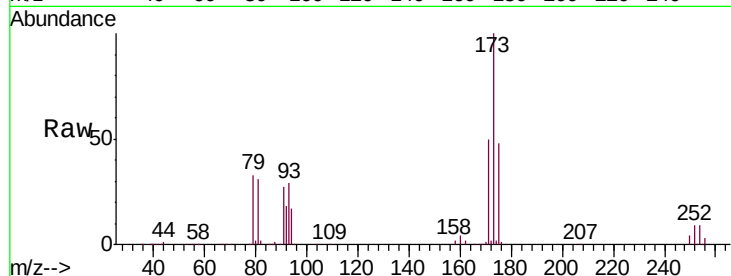
Tgt Ion:173 Resp: 132053

Ion Ratio Lower Upper

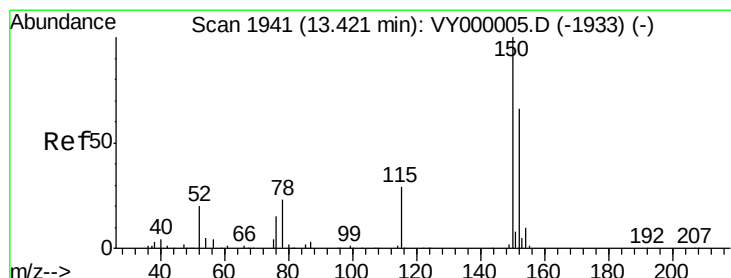
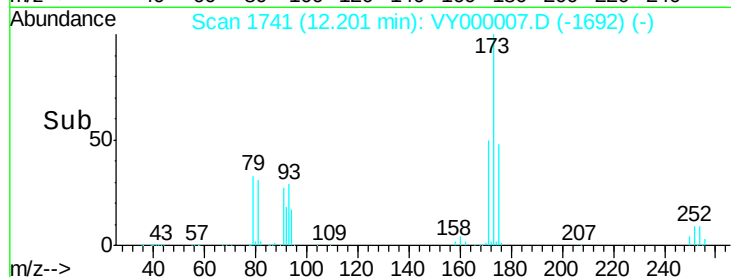
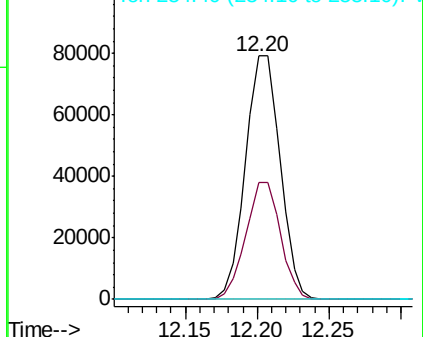
173 100

175 48.1 23.8 71.5

254 0.2 0.0 0.0#



Abundance Ion 172.70 (172.40 to 173.40): V  
Ion 174.70 (174.40 to 175.40): V  
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

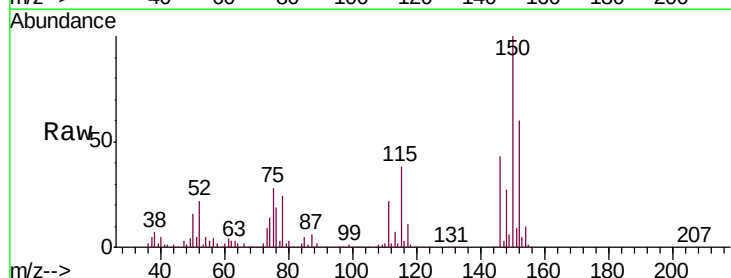
Tgt Ion:152 Resp: 105888

Ion Ratio Lower Upper

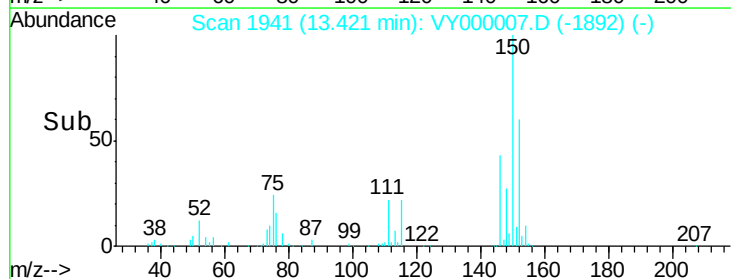
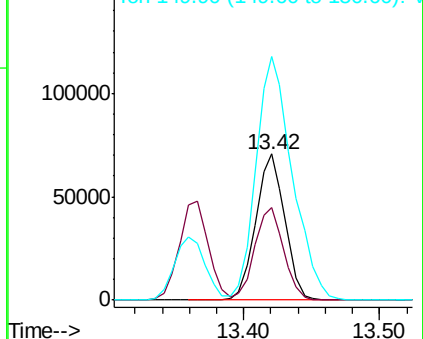
152 100

115 62.7 30.3 91.0

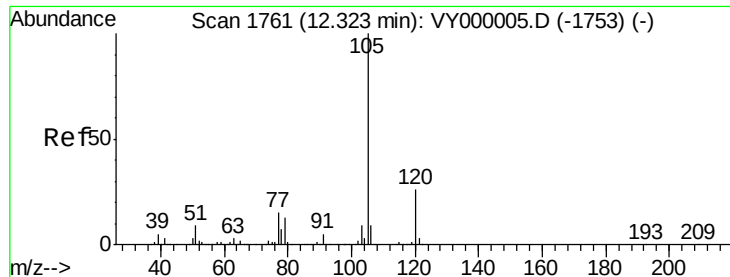
150 207.5 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V







#73

Isopropylbenzene

Concen: 154.457 ug/l

RT: 12.32 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

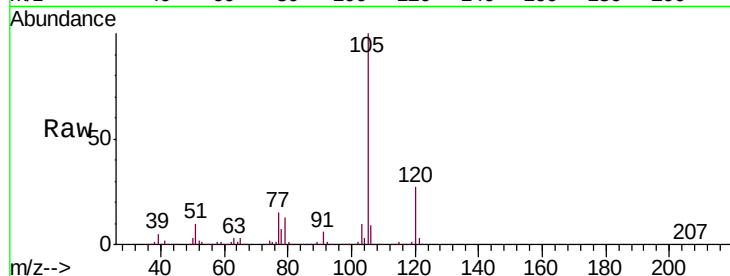
VSTDIC150

Tgt Ion:105 Resp: 1164849

Ion Ratio Lower Upper

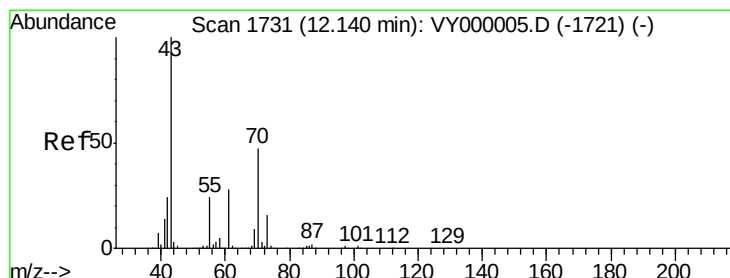
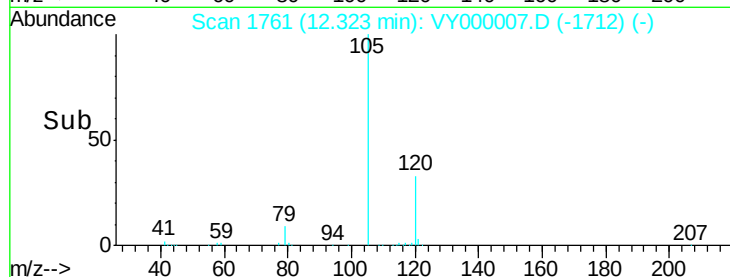
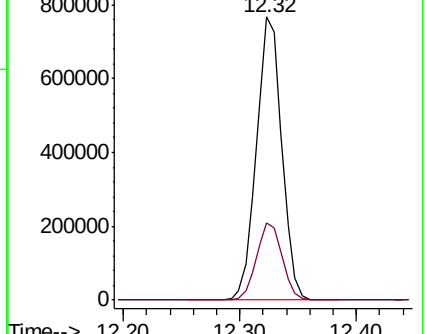
105 100

120 27.5 13.5 40.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 136.872 ug/l

RT: 12.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Tgt Ion: 43 Resp: 321067

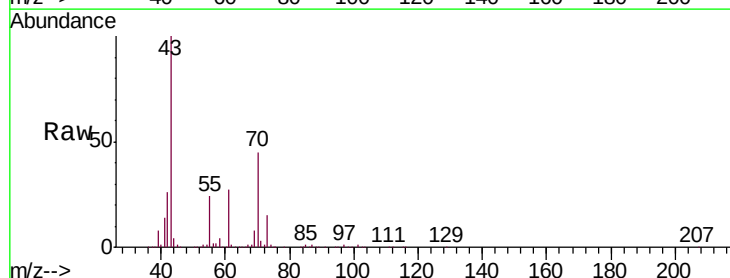
Ion Ratio Lower Upper

43 100

70 46.1 38.1 57.1

55 23.4 19.9 29.9

61 26.9 22.0 33.0

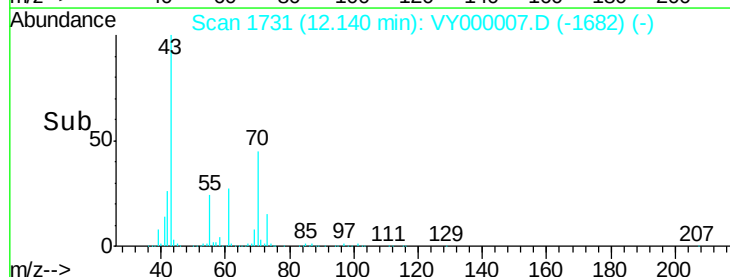
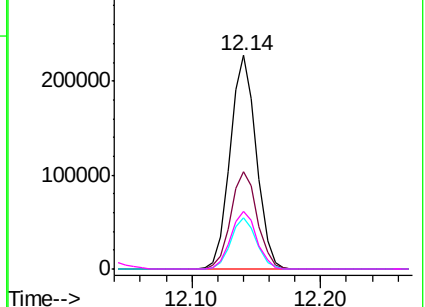


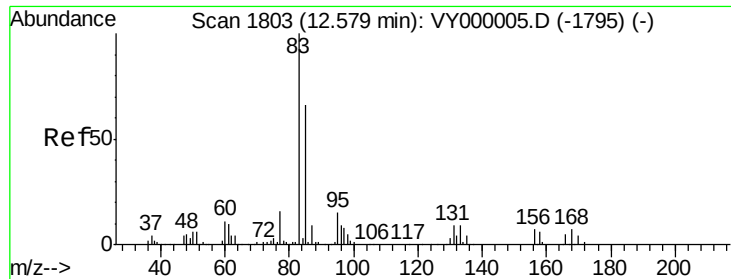
Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0





#75

1,1,2,2-Tetrachloroethane

Concen: 157.453 ug/l

RT: 12.58 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

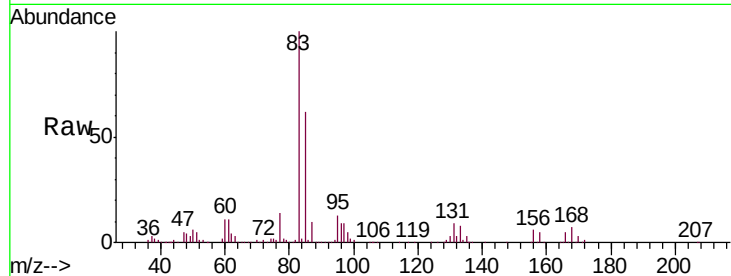
Tgt Ion: 83 Resp: 246387

Ion Ratio Lower Upper

83 100

131 9.3 5.0 14.9

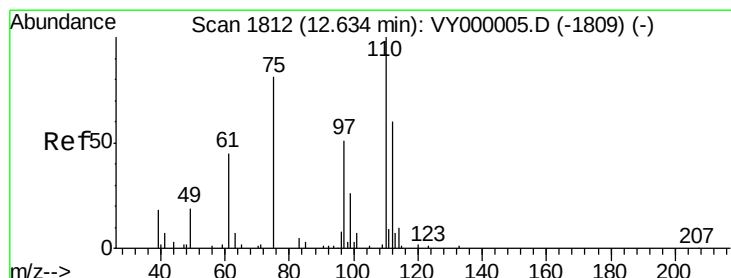
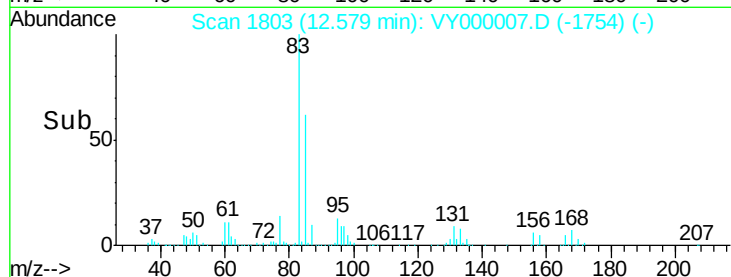
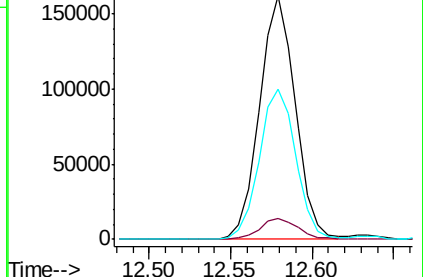
85 63.2 32.1 96.3



Abundance Ion 82.90 (82.60 to 83.60): VY0

Ion 130.80 (130.50 to 131.50): VY0

Ion 84.90 (84.60 to 85.60): VY0



#76

1,2,3-Trichloropropane

Concen: 290.861 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.01 min

Lab File: VY000007.D

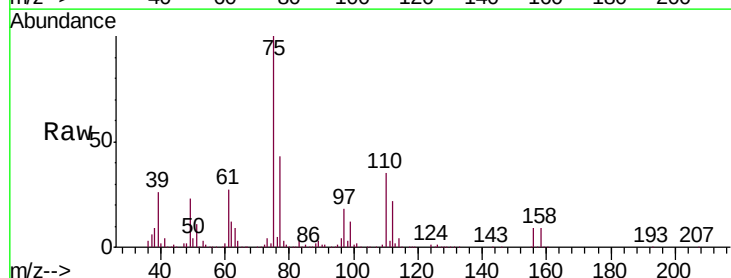
Acq: 11 Sep 2019 18:27

Tgt Ion: 75 Resp: 325239

Ion Ratio Lower Upper

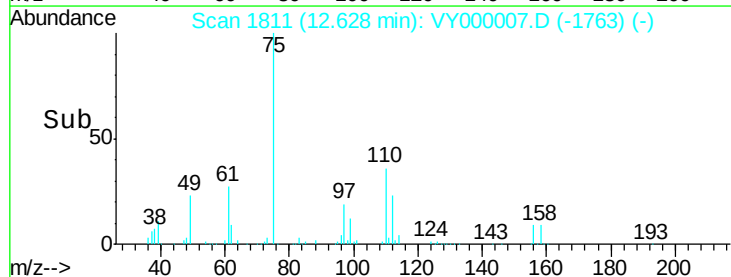
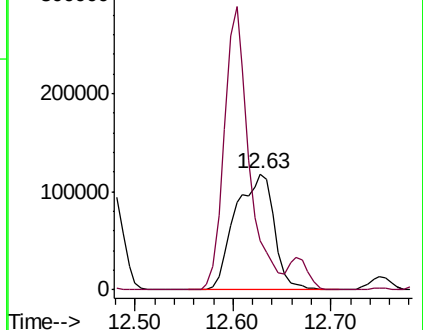
75 100

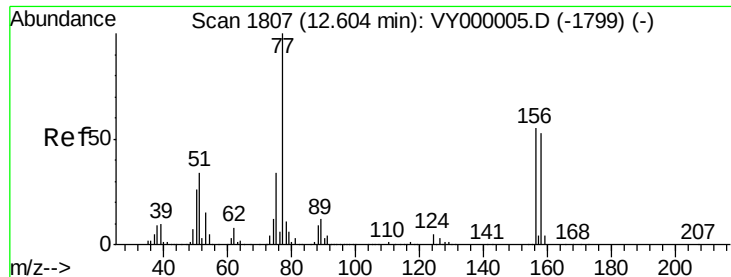
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#77

Bromobenzene

Concen: 143.427 ug/l

RT: 12.60 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

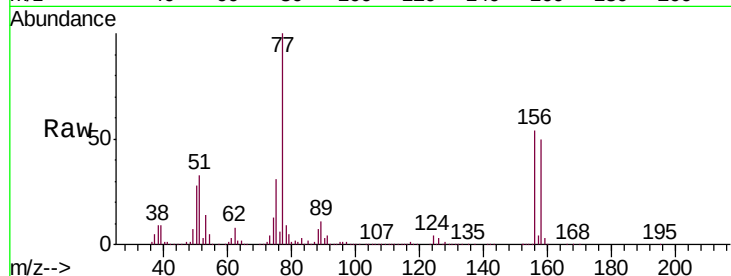
Tgt Ion:156 Resp: 243555

Ion Ratio Lower Upper

156 100

77 209.5 106.5 319.6

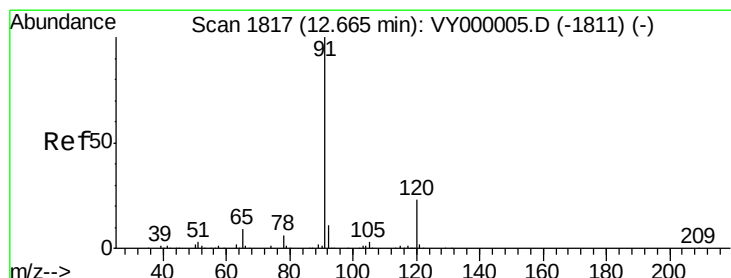
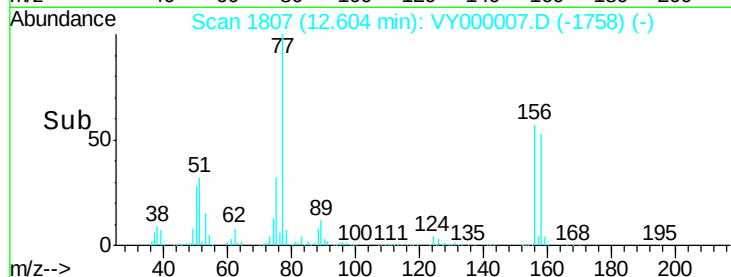
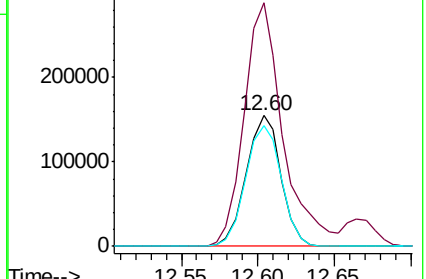
158 95.3 48.2 144.6



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 155.794 ug/l

RT: 12.66 min Scan# 1817

Delta R.T. 0.00 min

Lab File: VY000007.D

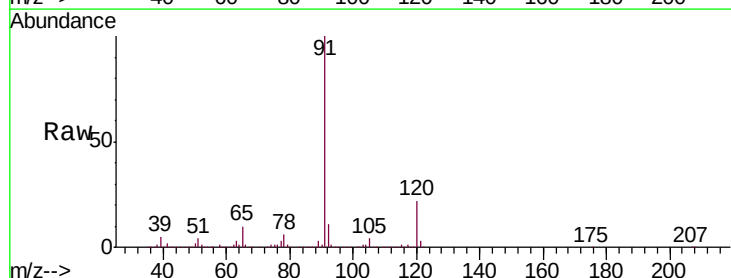
Acq: 11 Sep 2019 18:27

Tgt Ion: 91 Resp: 1413735

Ion Ratio Lower Upper

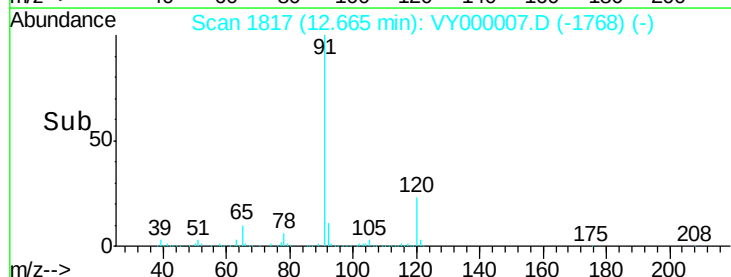
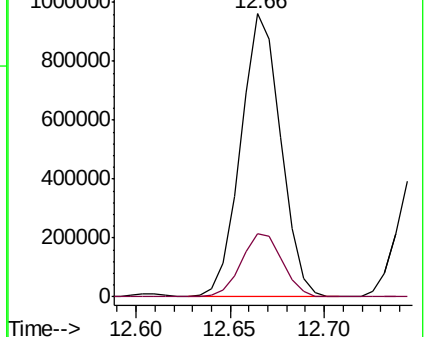
91 100

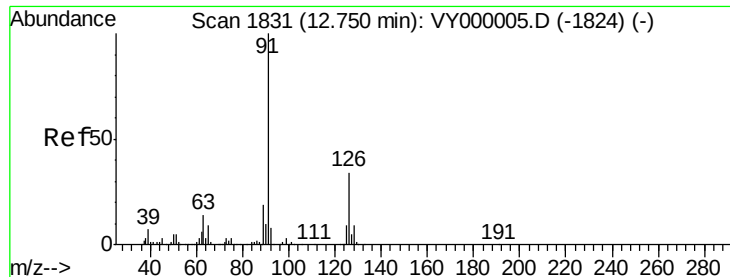
120 23.0 11.3 33.9



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V

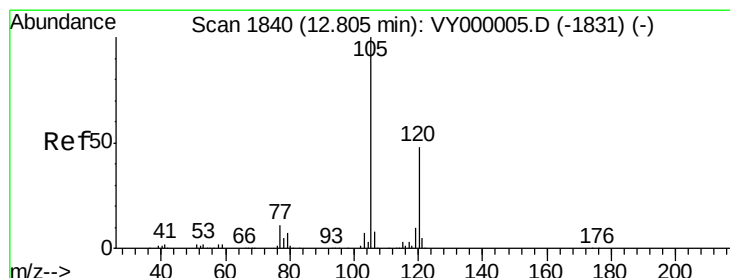
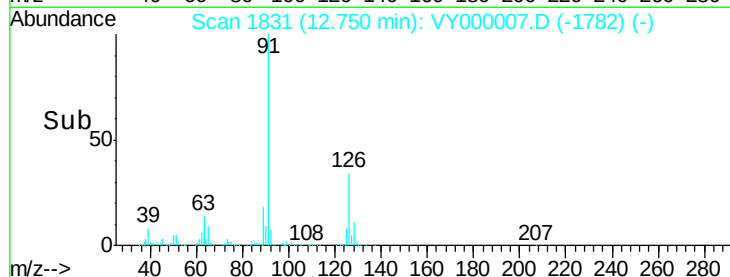
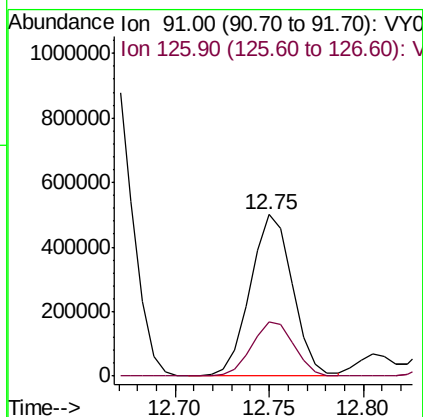
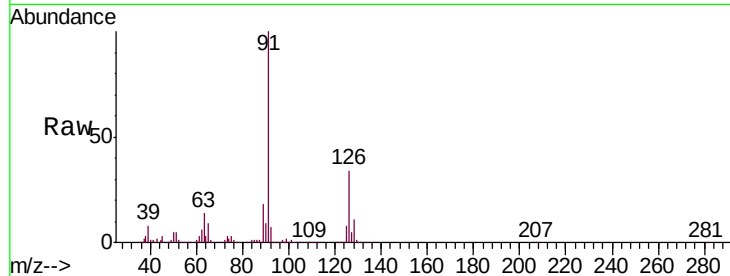




#79  
 2-Chlorotoluene  
 Concen: 150.448 ug/l  
 RT: 12.75 min Scan# 1831  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

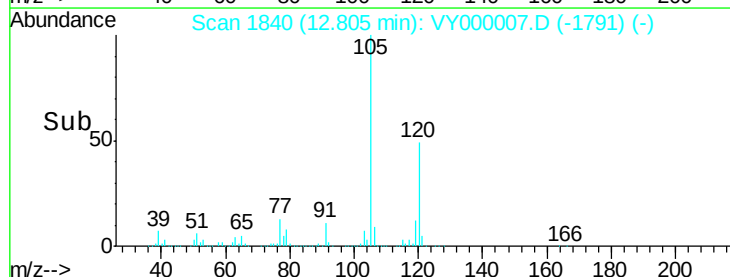
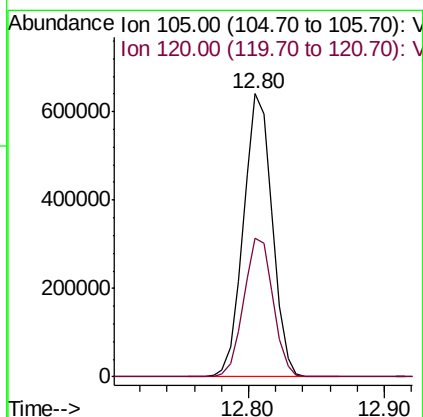
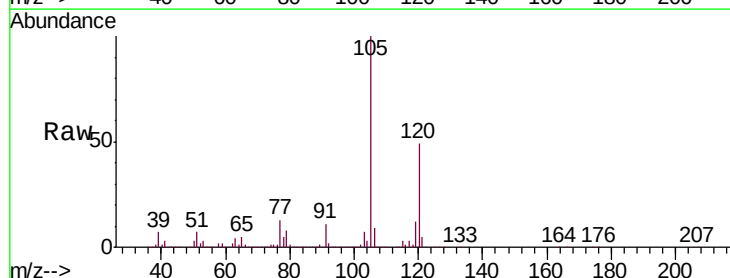
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC150

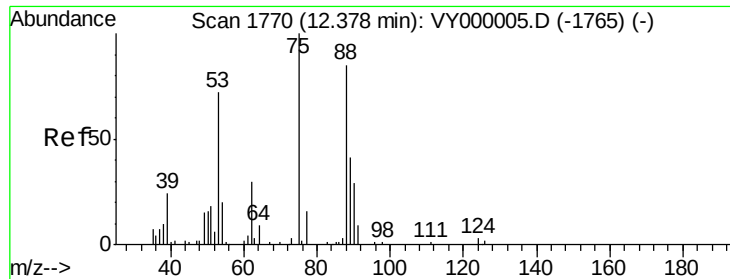
Tgt Ion: 91 Resp: 779207  
 Ion Ratio Lower Upper  
 91 100  
 126 34.1 17.2 51.6



#80  
 1,3,5-Trimethylbenzene  
 Concen: 149.133 ug/l  
 RT: 12.80 min Scan# 1840  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

Tgt Ion: 105 Resp: 946035  
 Ion Ratio Lower Upper  
 105 100  
 120 49.9 24.9 74.6

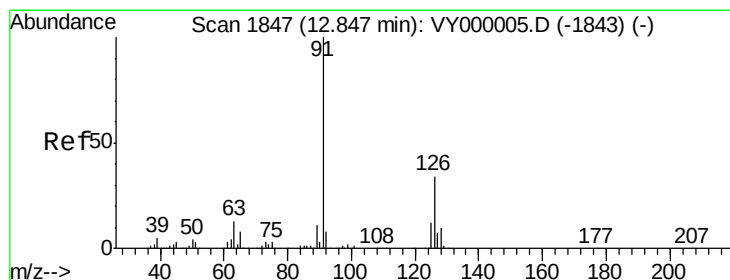
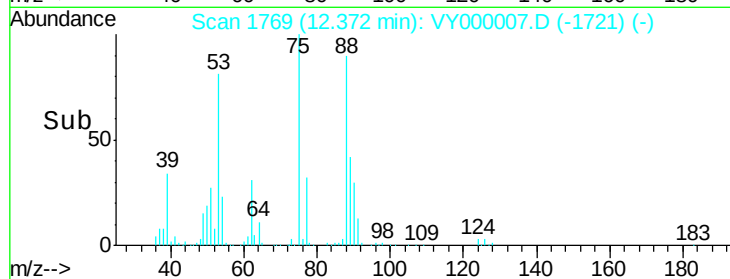
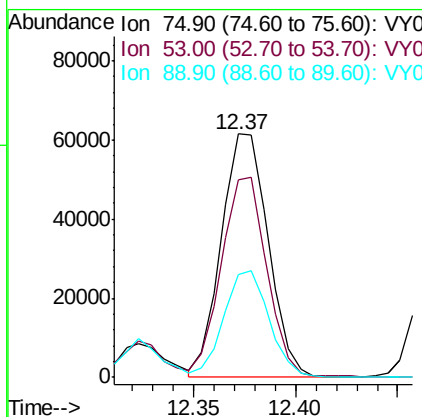
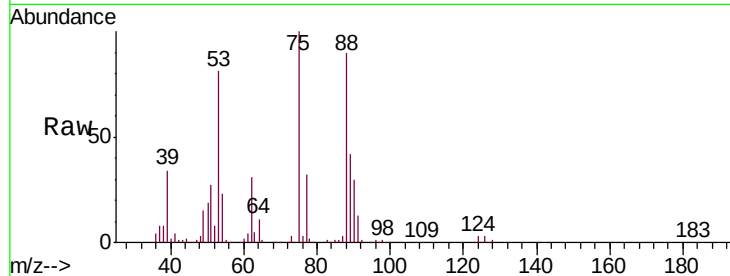




#81  
trans-1,4-Dichloro-2-butene  
Concen: 182.564 ug/l  
RT: 12.37 min Scan# 1769  
Delta R.T. -0.01 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

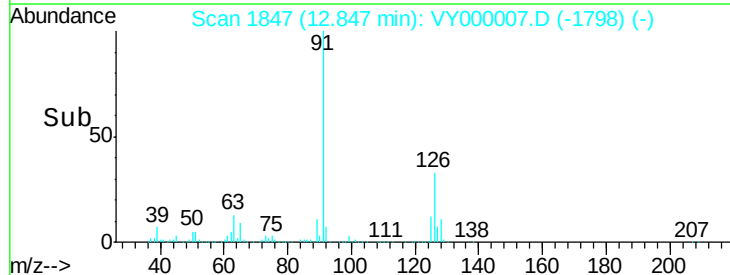
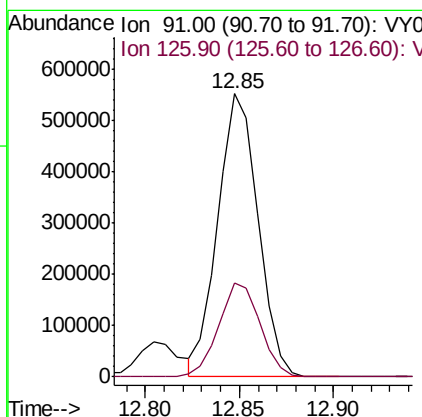
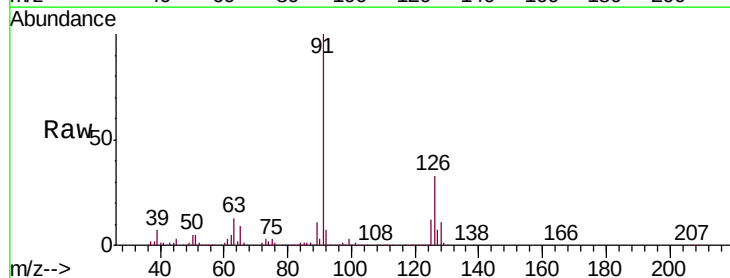
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VSTDIC150

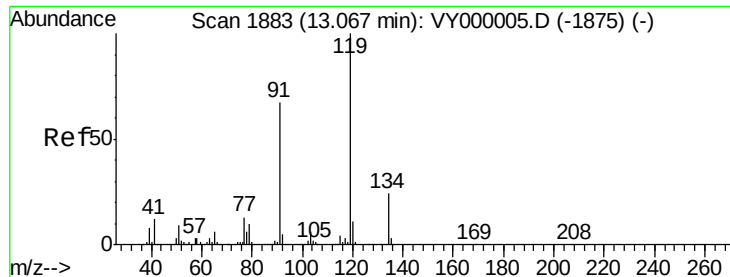
Tgt Ion: 75 Resp: 98394  
Ion Ratio Lower Upper  
75 100  
53 79.7 63.0 94.6  
89 42.1 34.6 52.0



#82  
4-Chlorotoluene  
Concen: 149.460 ug/l  
RT: 12.85 min Scan# 1847  
Delta R.T. 0.00 min  
Lab File: VY000007.D  
Acq: 11 Sep 2019 18:27

Tgt Ion: 91 Resp: 818811  
Ion Ratio Lower Upper  
91 100  
126 34.0 17.0 50.9

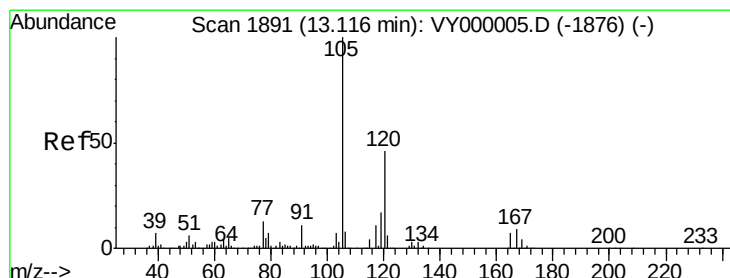
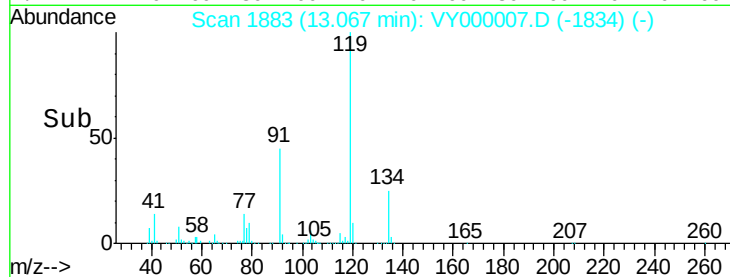
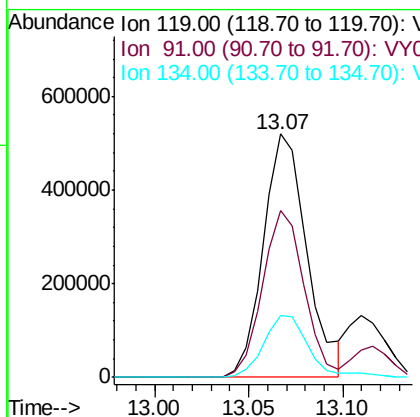
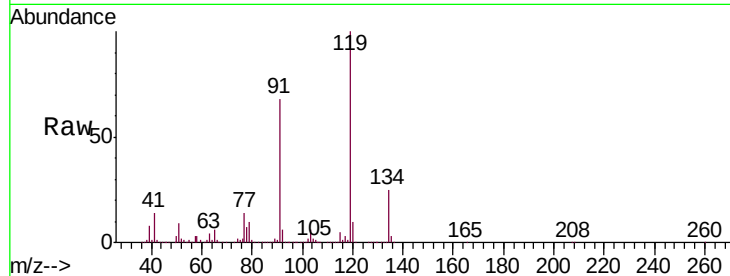




#83  
 tert-Butylbenzene  
 Concen: 149.579 ug/l  
 RT: 13.07 min Scan# 1883  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

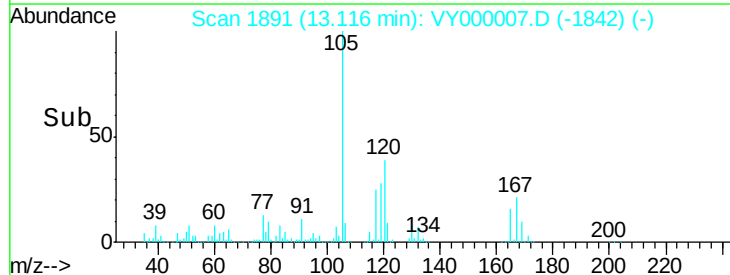
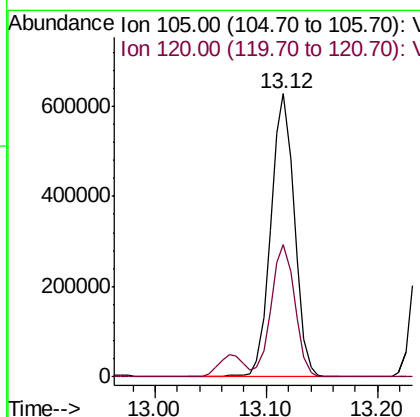
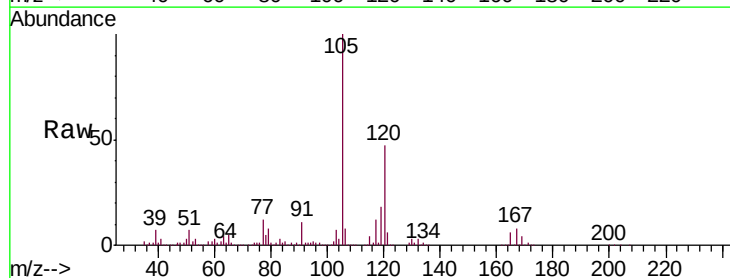
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC150

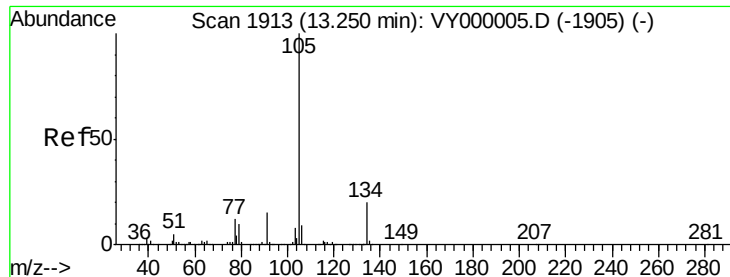
Tgt Ion:119 Resp: 834486  
 Ion Ratio Lower Upper  
 119 100  
 91 65.3 33.6 100.8  
 134 26.1 13.7 41.0



#84  
 1,2,4-Trimethylbenzene  
 Concen: 144.408 ug/l  
 RT: 13.12 min Scan# 1891  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

Tgt Ion:105 Resp: 926399  
 Ion Ratio Lower Upper  
 105 100  
 120 46.9 22.8 68.3





#85

sec-Butylbenzene

Concen: 153.028 ug/l

RT: 13.25 min Scan# 1913

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

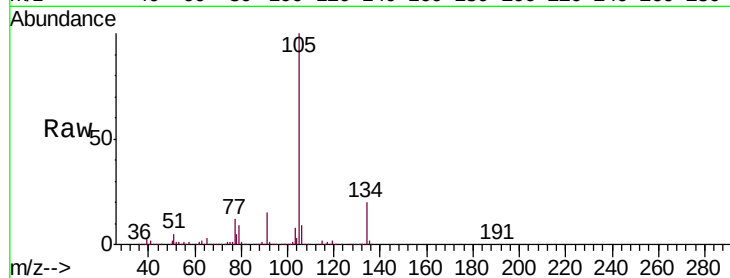
VSTDIC150

Tgt Ion:105 Resp: 1197941

Ion Ratio Lower Upper

105 100

134 19.8 9.9 29.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

800000

600000

400000

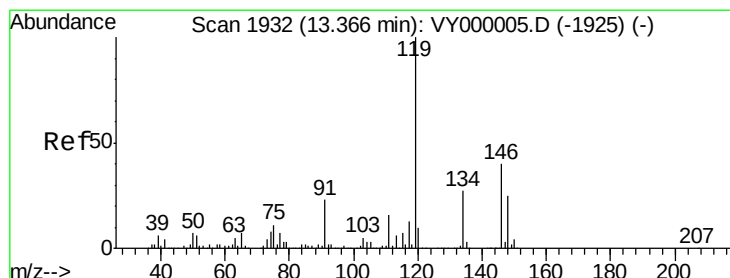
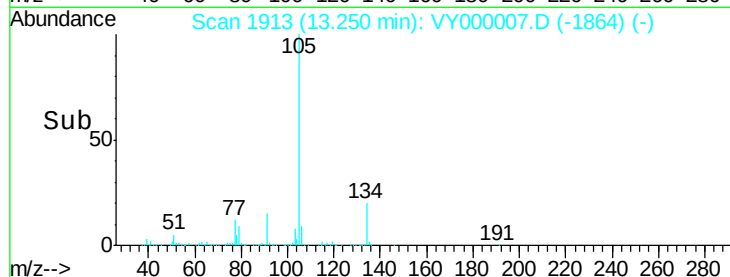
200000

0

13.25

13.30

Time-->



#86

p-Isopropyltoluene

Concen: 143.645 ug/l

RT: 13.37 min Scan# 1932

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

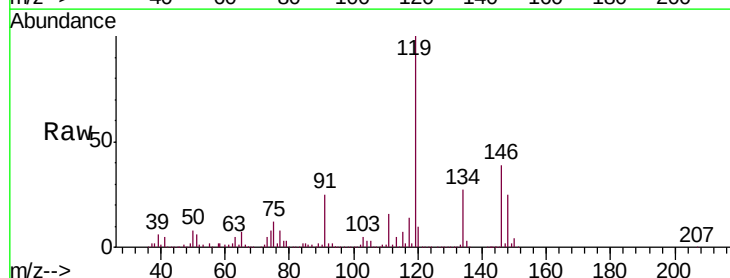
Tgt Ion:119 Resp: 1013629

Ion Ratio Lower Upper

119 100

134 26.9 13.7 41.1

91 25.3 12.2 36.6



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0

800000

600000

400000

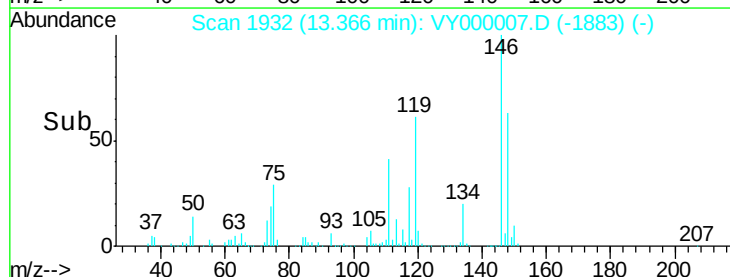
200000

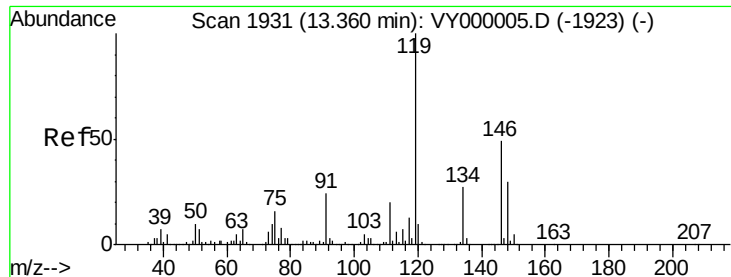
0

13.37

13.40

Time-->





#87

1,3-Dichlorobenzene

Concen: 138.672 ug/l

RT: 13.36 min Scan# 1931

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

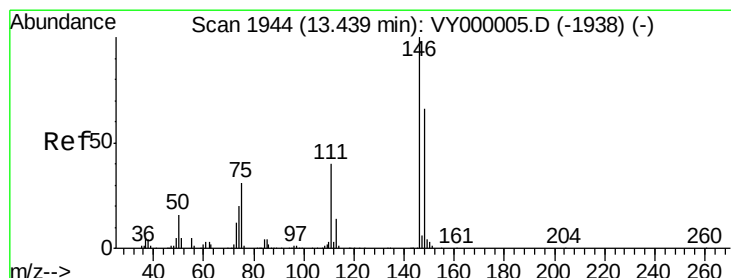
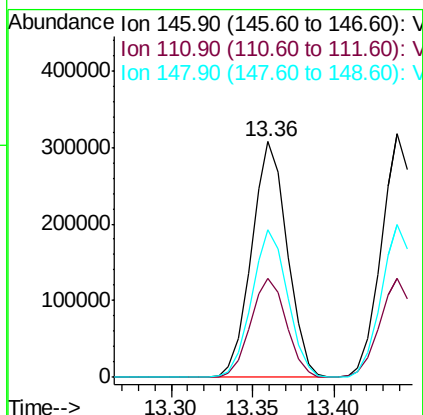
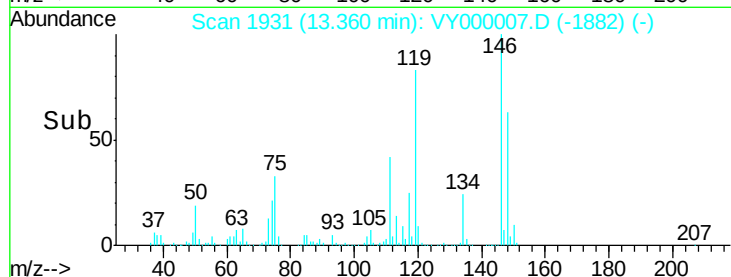
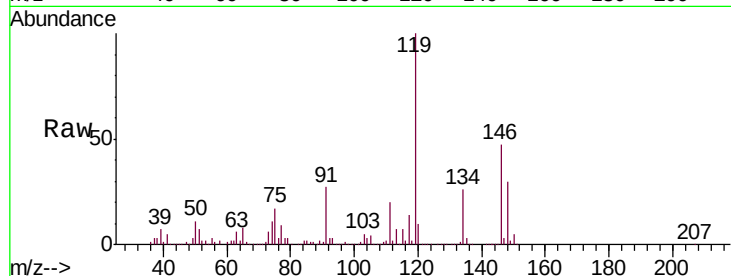
Tgt Ion:146 Resp: 465456

Ion Ratio Lower Upper

146 100

111 41.9 20.6 61.9

148 62.9 31.3 93.9



#88

1,4-Dichlorobenzene

Concen: 141.178 ug/l

RT: 13.44 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

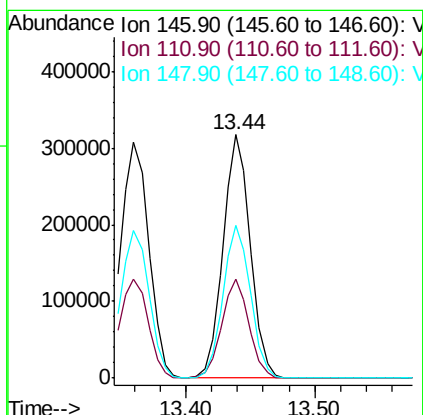
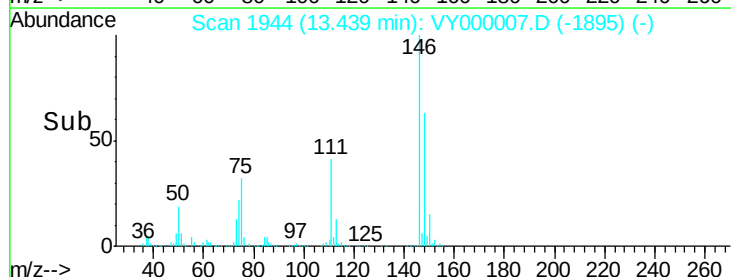
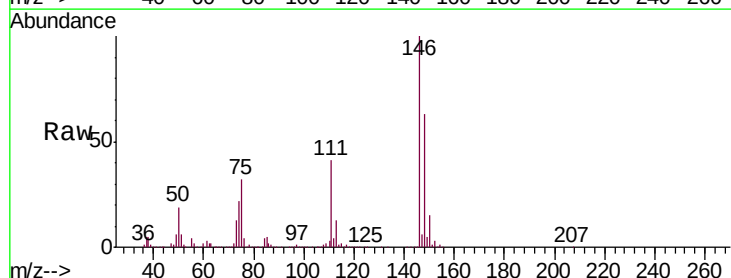
Tgt Ion:146 Resp: 470584

Ion Ratio Lower Upper

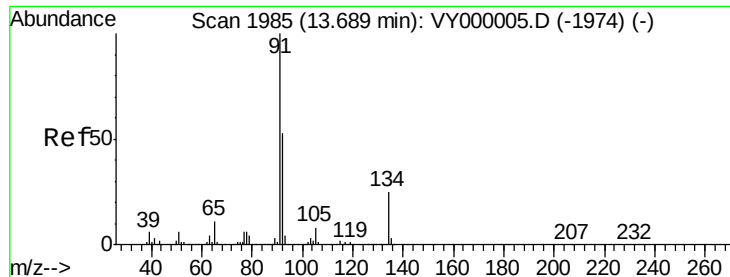
146 100

111 40.5 20.3 60.9

148 63.4 31.9 95.7







#89

n-Butylbenzene

Concen: 150.554 ug/l

RT: 13.69 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

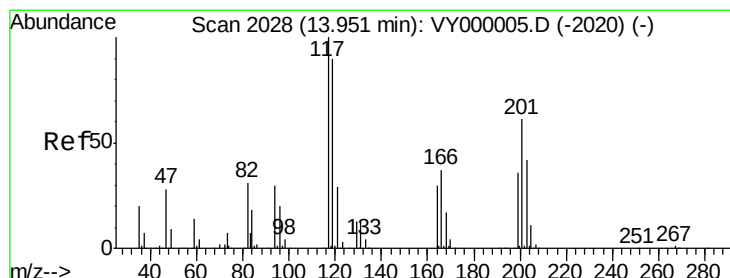
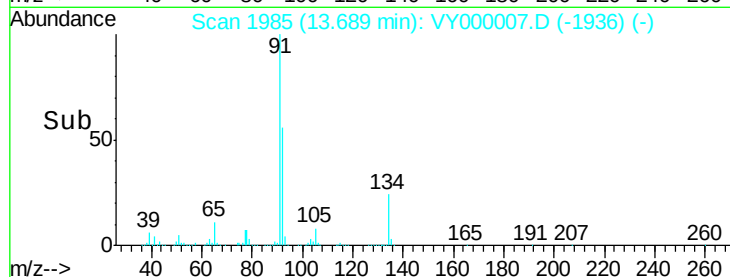
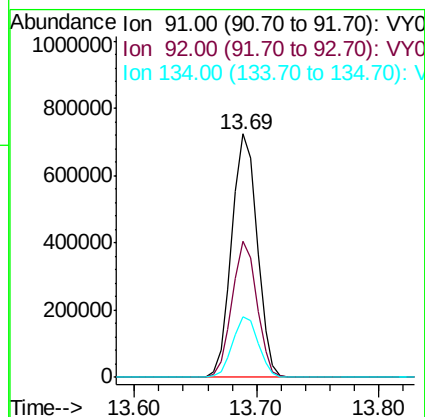
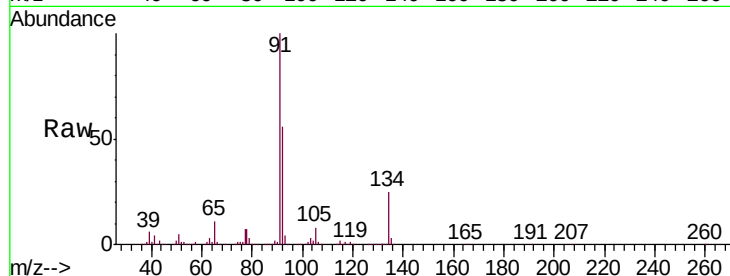
Tgt Ion: 91 Resp: 1041155

Ion Ratio Lower Upper

91 100

92 54.5 27.0 80.8

134 25.1 12.7 38.0



#90

Hexachloroethane

Concen: 157.940 ug/l

RT: 13.96 min Scan# 2029

Delta R.T. 0.01 min

Lab File: VY000007.D

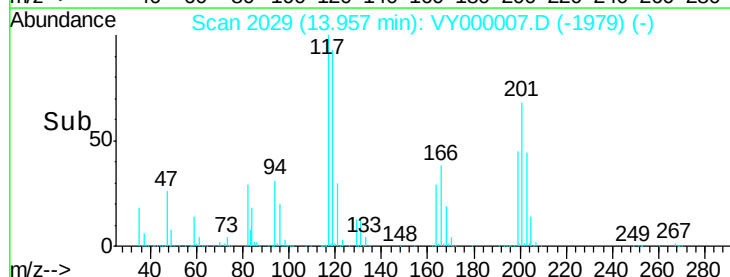
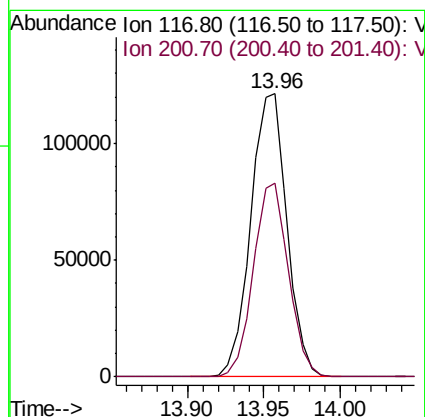
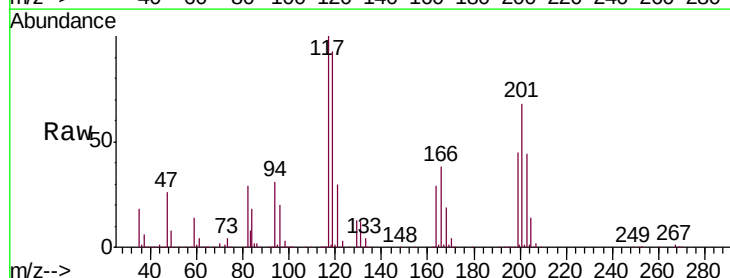
Acq: 11 Sep 2019 18:27

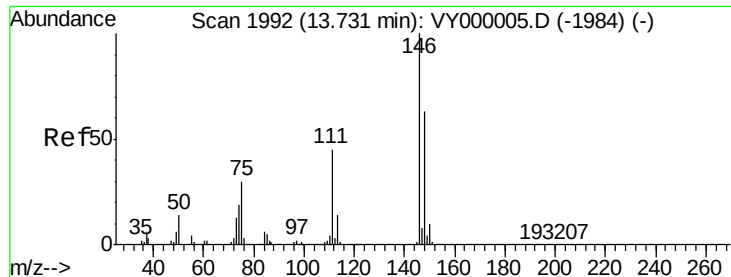
Tgt Ion: 117 Resp: 199115

Ion Ratio Lower Upper

117 100

201 66.5 32.3 96.8





#91

1,2-Dichlorobenzene

Concen: 143.423 ug/l

RT: 13.73 min Scan# 1992

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

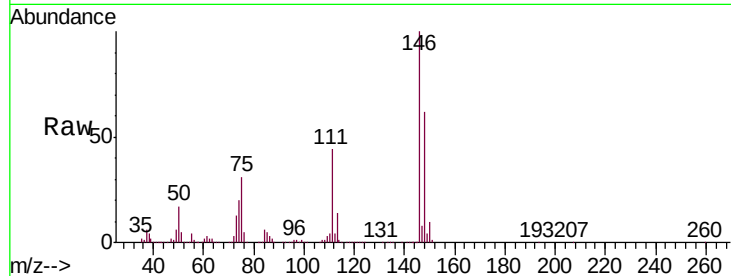
Tgt Ion:146 Resp: 434588

Ion Ratio Lower Upper

146 100

111 42.9 21.9 65.5

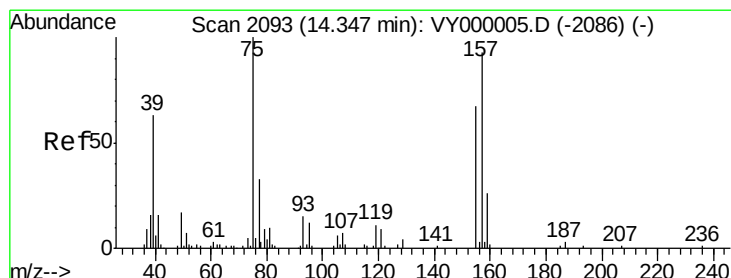
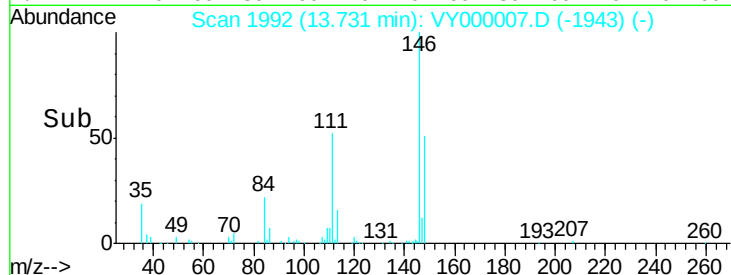
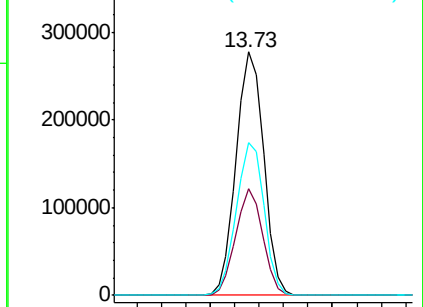
148 63.1 31.9 95.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 153.074 ug/l

RT: 14.35 min Scan# 2093

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

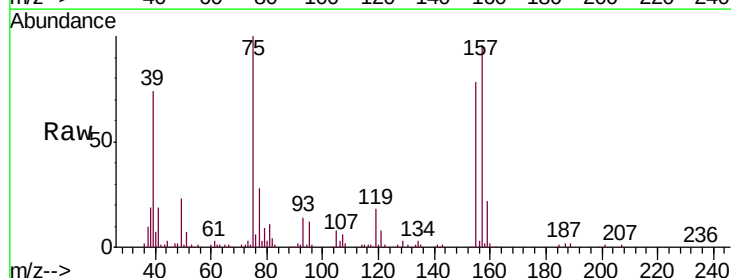
Tgt Ion: 75 Resp: 44158

Ion Ratio Lower Upper

75 100

155 86.7 41.4 124.2

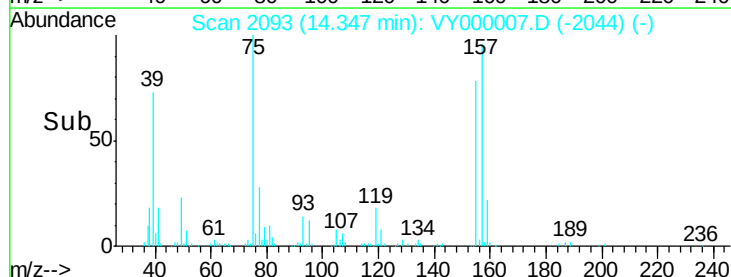
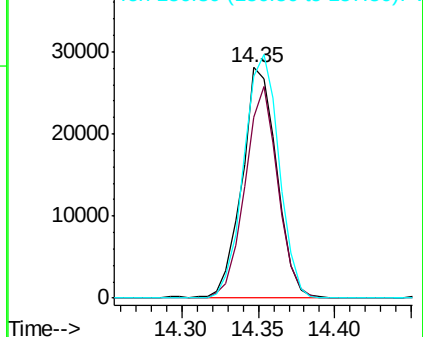
157 107.4 52.8 158.4

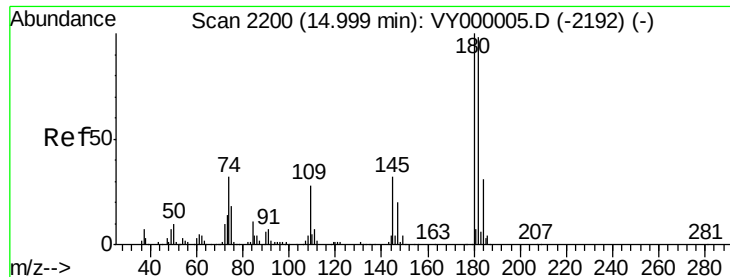


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

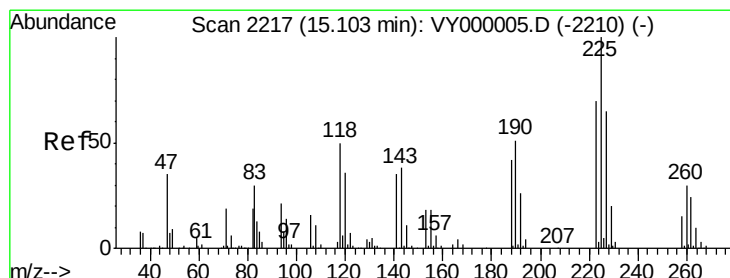
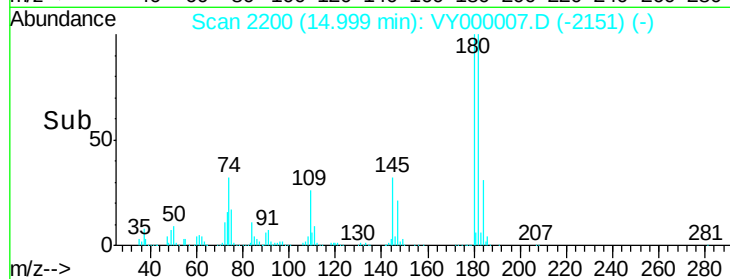
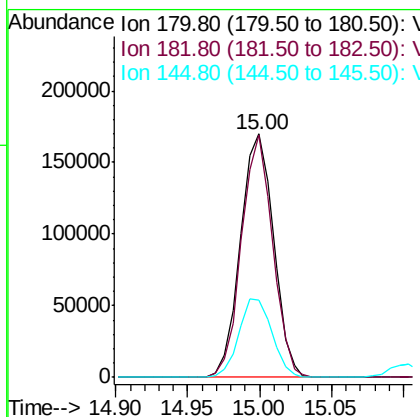
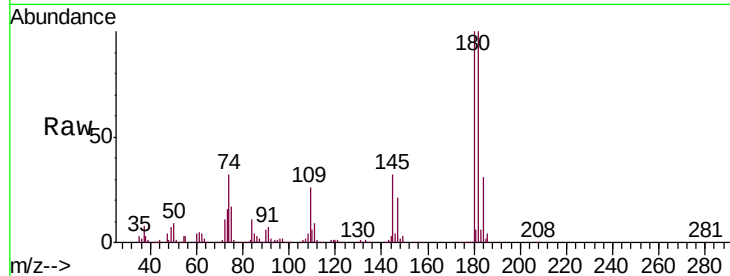




#93  
 1,2,4-Trichlorobenzene  
 Concen: 132.245 ug/l  
 RT: 15.00 min Scan# 2200  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

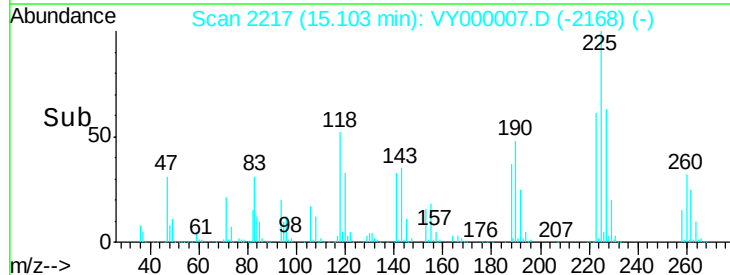
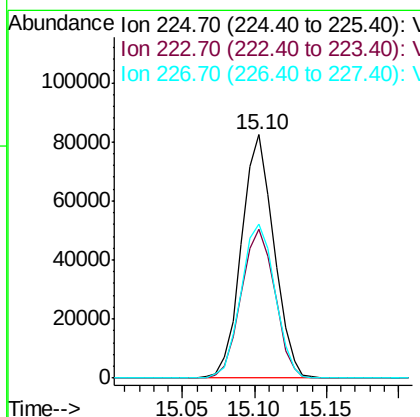
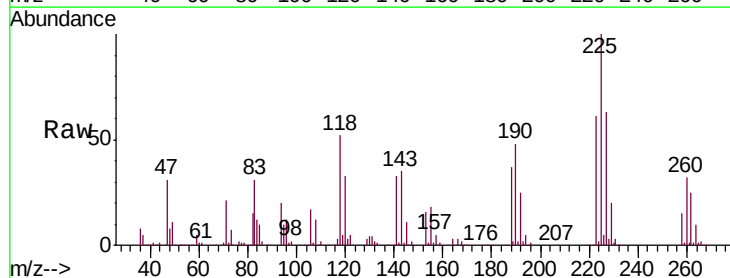
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VSTDIC150

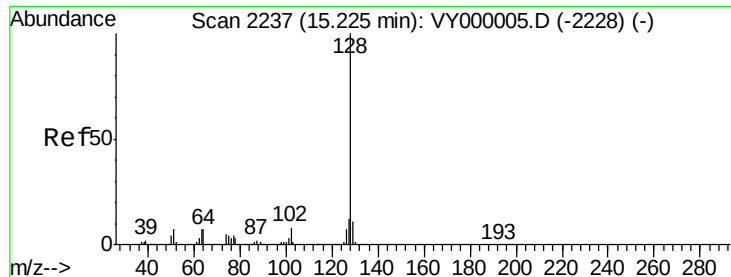
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.6  | 48.4  | 145.2 |
| 145     | 32.5  | 17.2  | 51.6  |



#94  
 Hexachlorobutadiene  
 Concen: 94.739 ug/l  
 RT: 15.10 min Scan# 2217  
 Delta R.T. 0.00 min  
 Lab File: VY000007.D  
 Acq: 11 Sep 2019 18:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 63.4  | 32.3  | 96.8  |
| 227     | 66.1  | 31.8  | 95.4  |





#95

Naphthalene

Concen: 176.232 ug/l

RT: 15.23 min Scan# 2237

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Instrument :

MSVOA\_Y

ClientSampleId :

VSTDIC150

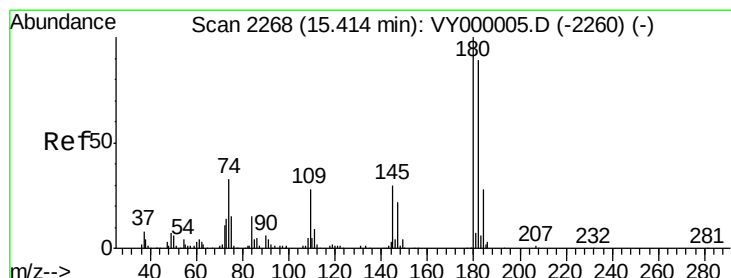
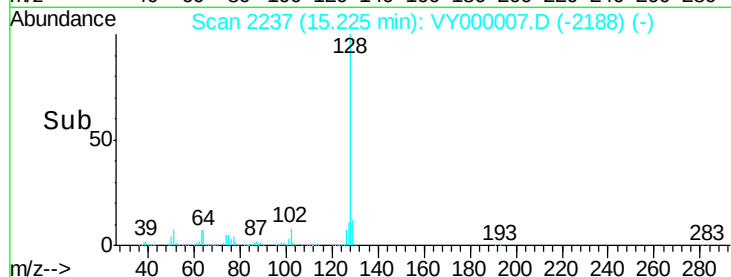
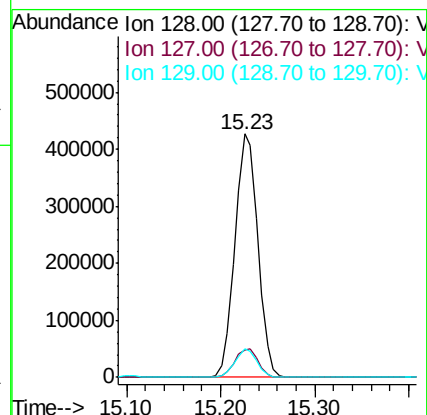
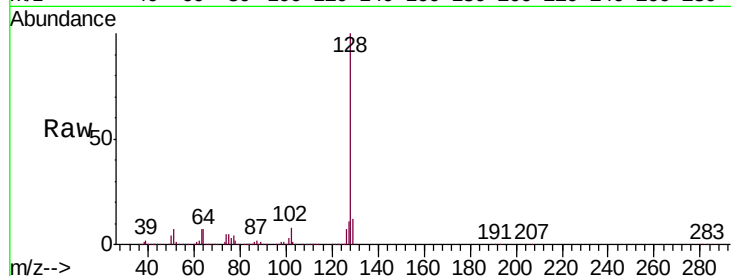
Tgt Ion:128 Resp: 718566

Ion Ratio Lower Upper

128 100

127 12.0 9.8 14.8

129 11.1 8.9 13.3



#96

1,2,3-Trichlorobenzene

Concen: 134.922 ug/l

RT: 15.41 min Scan# 2268

Delta R.T. 0.00 min

Lab File: VY000007.D

Acq: 11 Sep 2019 18:27

Tgt Ion:180 Resp: 245440

Ion Ratio Lower Upper

180 100

182 94.1 46.1 138.2

145 33.5 16.2 48.6

