

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U072219\  
 Data File : VU033366.D  
 Acq On : 22 Jul 2019 21:52  
 Operator : JC/SP  
 Sample : VSTDICV010  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU072219

Manual Integrations  
 APPROVED

MMDadoda  
 7/23/2019 8:55:19 AM

Quant Time: Jul 23 03:51:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072219DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Jul 23 03:43:51 2019  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon  | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|-------|-------|----------|---------|---------|----------|
| -----                         | ----- | ----- | -----    | -----   | -----   | -----    |
| 1) Fluorobenzene              | 5.72  | 96    | 32840    | 1.00    | ug/l    | 0.00     |
| System Monitoring Compounds   |       |       |          |         |         |          |
| 57) 4-Bromofluorobenzene      | 10.29 | 95    | 13595    | 1.05    | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =       | 105.00% |          |
| 68) 1,2-Dichlorobenzene-d4    | 11.85 | 152   | 13934    | 1.05    | ug/l    | 0.00     |
| Spiked Amount 1.000           |       |       | Recovery | =       | 105.00% |          |
| Target Compounds              |       |       |          |         |         | Ovalue   |
| 2) Dichlorodifluoromethane    | 1.20  | 85    | 77724    | 5.723   | ug/l    | 100      |
| 3) Chloromethane              | 1.32  | 50    | 113027   | 7.540   | ug/l    | 100      |
| 4) Vinyl Chloride             | 1.39  | 62    | 132651   | 7.930   | ug/l    | 100      |
| 5) Bromomethane               | 1.62  | 94    | 87391    | 8.299   | ug/l    | 98       |
| 6) Chloroethane               | 1.69  | 64    | 98660    | 8.398   | ug/l    | 98       |
| 7) Trichlorofluoromethane     | 1.87  | 101   | 197553   | 8.601   | ug/l    | 98       |
| 8) 1,1,2-Trichloro-1,2,2-trif | 2.27  | 101   | 113386   | 9.570   | ug/l    | 99       |
| 9) 1,1-Dichloroethene         | 2.27  | 96    | 117780   | 10.093  | ug/l    | 97       |
| 10) Iodomethane               | 2.40  | 142   | 148532   | 9.471   | ug/l    | 99       |
| 11) Allyl Chloride            | 2.57  | 41    | 185736   | 9.645   | ug/l    | 95       |
| 12) Acrylonitrile             | 2.93  | 53    | 153915m  | 47.252  | ug/l    |          |
| 13) Acetone                   | 2.33  | 43    | 121399   | 43.682  | ug/l    | 99       |
| 14) Carbon Disulfide          | 2.46  | 76    | 379155   | 8.551   | ug/l    | 100      |
| 15) Methylene Chloride        | 2.68  | 84    | 135020   | 8.579   | ug/l    | 99       |
| 16) trans-1,2-Dichloroethene  | 2.96  | 96    | 128485   | 9.272   | ug/l    | 97       |
| 17) 1,1-Dichloroethane        | 3.42  | 63    | 180272   | 9.693   | ug/l    | 99       |
| 18) 2-Butanone                | 4.26  | 43    | 133539   | 50.342  | ug/l    | 100      |
| 19) Cyclohexane               | 4.96  | 56    | 148892m  | 10.909  | ug/l    |          |
| 20) Methylcyclohexane         | 6.39  | 83    | 151078   | 10.995  | ug/l    | 99       |
| 21) 2,2-Dichloropropane       | 4.20  | 77    | 137450   | 8.722   | ug/l    | 99       |
| 22) cis-1,2-Dichloroethene    | 4.20  | 96    | 105058   | 10.004  | ug/l    | 100      |
| 23) Diethyl Ether             | 2.09  | 59    | 92829    | 9.228   | ug/l    | 98       |
| 24) tert-Butyl Alcohol        | 2.87  | 59    | 63895    | 49.152  | ug/l #  | 86       |
| 25) Methyl tert-Butyl Ether   | 2.98  | 73    | 325545   | 9.689   | ug/l    | 98       |
| 26) Bromochloromethane        | 4.52  | 128   | 45936    | 9.947   | ug/l    | 96       |
| 27) Chloroform                | 4.65  | 83    | 187309   | 8.812   | ug/l    | 98       |
| 28) 1,1,1-Trichloroethane     | 4.89  | 97    | 160591   | 9.759   | ug/l    | 99       |
| 29) 1,1-Dichloropropene       | 5.11  | 75    | 137155   | 10.105  | ug/l    | 99       |
| 30) Carbon Tetrachloride      | 5.11  | 117   | 141218   | 9.750   | ug/l    | 98       |
| 31) Isopropyl Ether           | 3.56  | 45    | 265014   | 11.274  | ug/l #  | 1        |
| 34) Propionitrile             | 4.33  | 54    | 86819    | 114.094 | ug/l #  | 97       |
| 35) Benzene                   | 5.36  | 78    | 401835   | 10.247  | ug/l    | 99       |
| 36) 1,2-Dichloroethane        | 5.38  | 62    | 129588   | 9.929   | ug/l    | 99       |
| 37) Trichloroethene           | 6.16  | 130   | 106716   | 10.310  | ug/l    | 94       |
| 38) 1,2-Dichloropropane       | 6.41  | 63    | 109010   | 10.075  | ug/l    | 97       |
| 39) Methacrylonitrile         | 4.53  | 41    | 32102    | 10.628  | ug/l    | 96       |
| 40) Methyl acrylate           | 4.41  | 55    | 49980    | 10.636  | ug/l #  | 93       |
| 41) Tetrahydrofuran           | 4.64  | 42    | 88321    | 58.312  | ug/l    | 98       |
| 42) 1-Chlorobutane            | 5.04  | 56    | 185203   | 10.177  | ug/l    | 99       |
| 43) Dibromomethane            | 6.54  | 93    | 59227    | 9.887   | ug/l    | 97       |
| 44) Bromodichloromethane      | 6.74  | 83    | 145297   | 10.060  | ug/l    | 99       |

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 Sample : VSTDICV010  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU072219

Manual Integrations  
 APPROVED

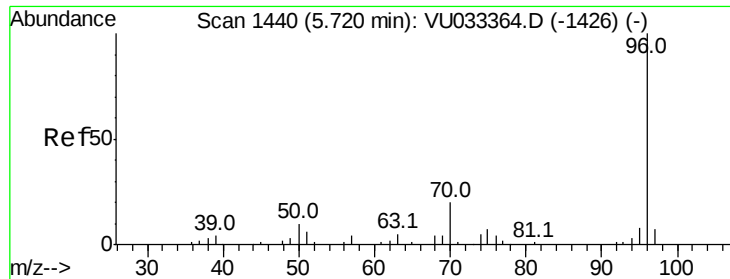
MMDadoda  
 7/23/2019 8:55:19 AM

Quant Time: Jul 23 03:51:49 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U072219DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Jul 23 03:43:51 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 45) 4-Methyl-2-Pentanone       | 7.45  | 43   | 333727   | 54.626 | ug/l  | 99       |
| 46) t-1,4-Dichloro-2-butene    | 10.49 | 75   | 27178m   | 11.023 | ug/l  |          |
| 47) Methyl methacrylate        | 6.61  | 69   | 50034    | 10.959 | ug/l  | 99       |
| 48) Ethyl methacrylate         | 8.00  | 69   | 100059   | 12.434 | ug/l  | 99       |
| 49) Toluene                    | 7.62  | 92   | 253144   | 11.268 | ug/l  | 99       |
| 50) t-1,3-Dichloropropene      | 7.86  | 75   | 135252   | 11.227 | ug/l  | 99       |
| 51) cis-1,3-Dichloropropene    | 7.25  | 75   | 154643   | 10.873 | ug/l  | 99       |
| 52) 1,1,2-Trichloroethane      | 8.05  | 97   | 81861    | 10.225 | ug/l  | 97       |
| 53) 1,3-Dichloropropane        | 8.22  | 76   | 140116   | 10.358 | ug/l  | 98       |
| 54) 2-Hexanone                 | 8.35  | 43   | 239602   | 55.714 | ug/l  | 99       |
| 55) Dibromochloromethane       | 8.46  | 129  | 97249    | 10.400 | ug/l  | 98       |
| 56) 1,2-Dibromoethane          | 8.57  | 107  | 77752    | 10.420 | ug/l  | 97       |
| 58) Tetrachloroethene          | 8.21  | 164  | 98458    | 10.490 | ug/l  | 98       |
| 59) Chlorobenzene              | 9.10  | 112  | 272966   | 10.598 | ug/l  | 99       |
| 60) 1,1,1,2-Tetrachloroethane  | 9.19  | 131  | 100278   | 10.253 | ug/l  | 99       |
| 61) Pentachloroethane          | 11.09 | 117  | 79645    | 9.922  | ug/l  | 100      |
| 62) Hexachloroethane           | 12.13 | 117  | 80215    | 10.328 | ug/l  | 99       |
| 63) Ethyl Benzene              | 9.23  | 91   | 487504   | 11.788 | ug/l  | 98       |
| 64) m/p-Xylenes                | 9.36  | 106  | 389169   | 23.536 | ug/l  | 98       |
| 65) o-Xylene                   | 9.76  | 106  | 180699   | 11.404 | ug/l  | 99       |
| 66) Styrene                    | 9.77  | 104  | 322773   | 12.009 | ug/l  | 99       |
| 67) Bromoform                  | 9.94  | 173  | 56426    | 11.149 | ug/l  | 99       |
| 69) Isopropylbenzene           | 10.15 | 105  | 488903   | 12.033 | ug/l  | 99       |
| 70) 1,1,2,2-Tetrachloroethane  | 10.44 | 83   | 107081   | 10.092 | ug/l  | 99       |
| 71) 1,2,3-Trichloropropane     | 10.48 | 75   | 79925m   | 9.757  | ug/l  |          |
| 72) Bromobenzene               | 10.44 | 156  | 119572   | 11.141 | ug/l  | 98       |
| 73) n-propylbenzene            | 10.57 | 120  | 134168   | 11.585 | ug/l  | 97       |
| 74) 2-Chlorotoluene            | 10.65 | 126  | 118923   | 11.249 | ug/l  | 100      |
| 75) 1,3,5-Trimethylbenzene     | 10.76 | 105  | 441479   | 12.103 | ug/l  | 99       |
| 76) 4-Chlorotoluene            | 10.76 | 126  | 126038   | 11.441 | ug/l  | 100      |
| 77) tert-Butylbenzene          | 11.09 | 119  | 389553   | 11.269 | ug/l  | 100      |
| 78) 1,2,4-Trimethylbenzene     | 11.13 | 105  | 446391   | 11.972 | ug/l  | 100      |
| 79) sec-Butylbenzene           | 11.31 | 105  | 505336   | 10.620 | ug/l  | 100      |
| 80) Nitrobenzene               | 12.85 | 77   | 3757m    | 8.519  | ug/l  |          |
| 81) p-Isopropyltoluene         | 11.46 | 119  | 464127   | 11.997 | ug/l  | 100      |
| 82) 1,3-Dichlorobenzene        | 11.40 | 146  | 236922   | 10.386 | ug/l  | 99       |
| 83) 1,4-Dichlorobenzene        | 11.49 | 146  | 242869   | 10.762 | ug/l  | 99       |
| 84) n-Butylbenzene             | 11.87 | 91   | 457192   | 11.549 | ug/l  | 100      |
| 85) 1,2-Dichlorobenzene        | 11.86 | 146  | 224575   | 10.500 | ug/l  | 99       |
| 86) 1,2-Dibromo-3-Chloropropan | 12.64 | 75   | 19008    | 11.389 | ug/l  | 97       |
| 87) 1,2,4-Trichlorobenzene     | 13.49 | 180  | 161573   | 12.696 | ug/l  | 99       |
| 88) Hexachlorobutadiene        | 13.68 | 225  | 83815    | 10.678 | ug/l  | 98       |
| 89) Naphthalene                | 13.73 | 128  | 315940   | 10.873 | ug/l  | 99       |
| 90) 1,2,3-Trichlorobenzene     | 13.97 | 180  | 149640   | 12.115 | ug/l  | 99       |

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





#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.72 min Scan# 1440

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

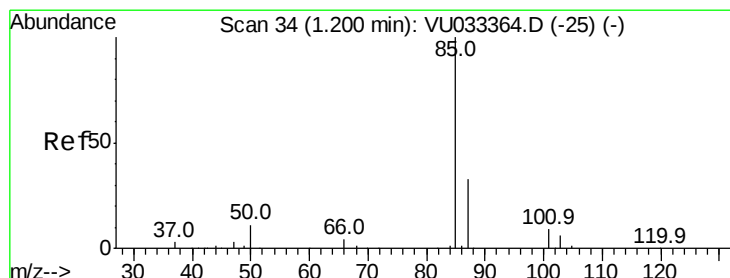
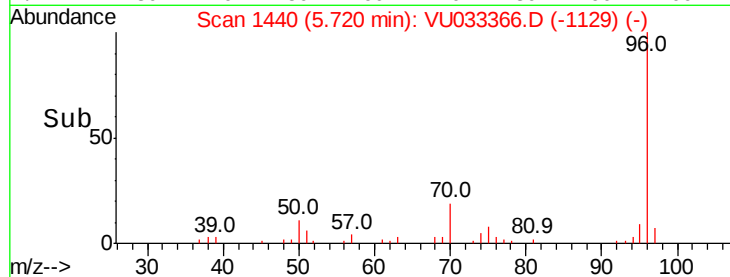
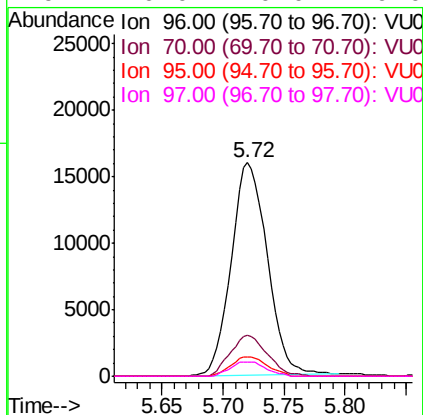
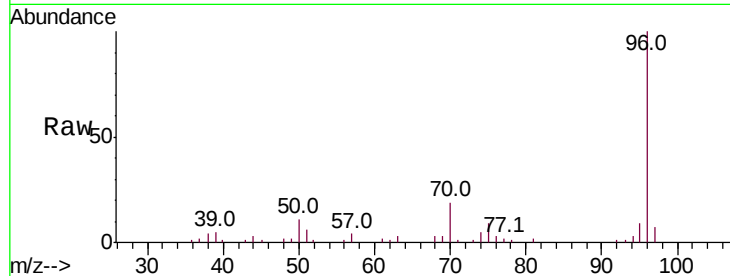
ClientSampleId :

ICVVU072219

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 96      | 100  |       |       |       |
| 70      | 19.7 | 16.4  | 24.6  |       |
| 95      | 9.3  | 6.7   | 10.1  |       |
| 97      | 0.0  | 0.0   | 0.0   |       |

Manual Integrations  
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#2

Dichlorodifluoromethane

Concen: 5.723 ug/l

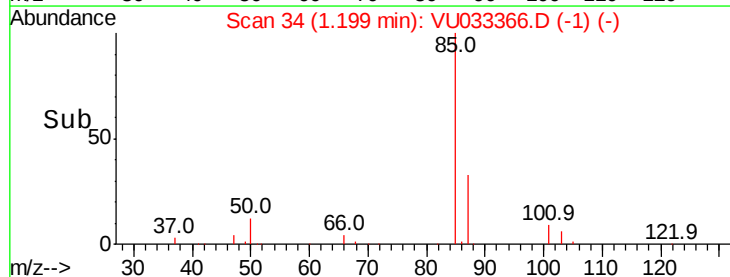
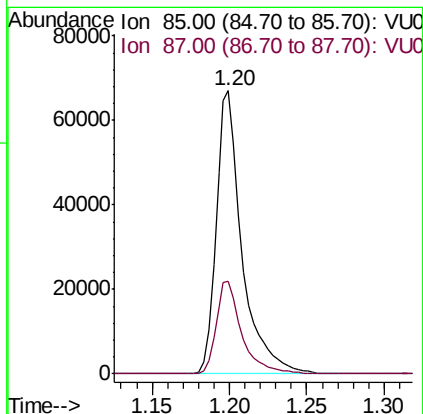
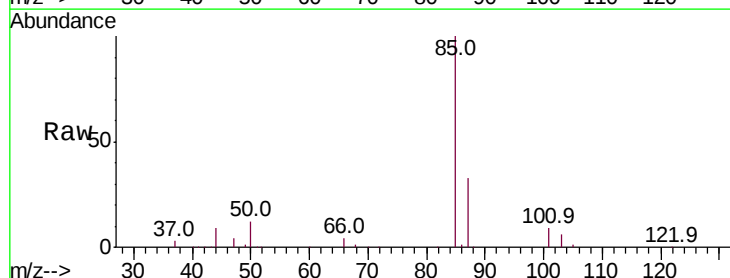
RT: 1.20 min Scan# 34

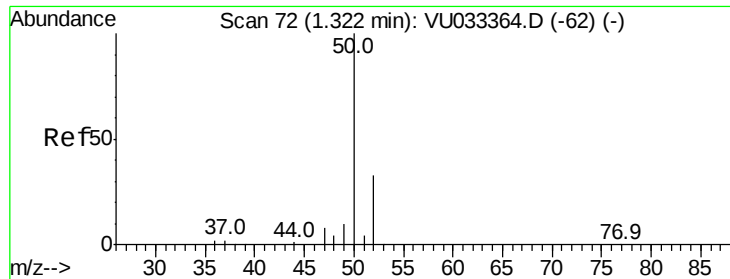
Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 85      | 100  |       |       |       |
| 87      | 33.0 | 16.6  | 49.7  |       |





#3

Chloromethane

Concen: 7.540 ug/l

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU072219

Tot Ion: 50 Resp: 113027

Ion Ratio Lower Upper

50 100

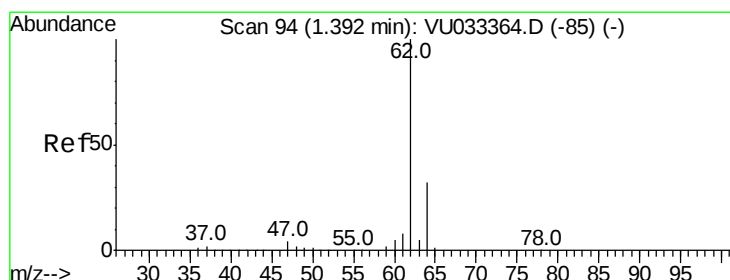
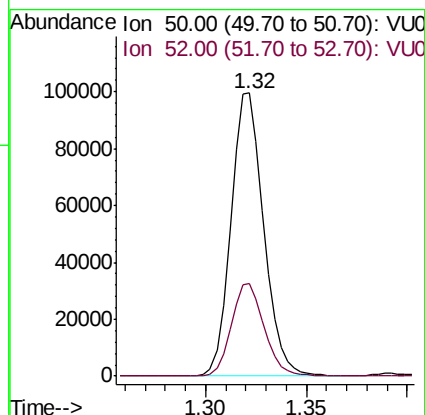
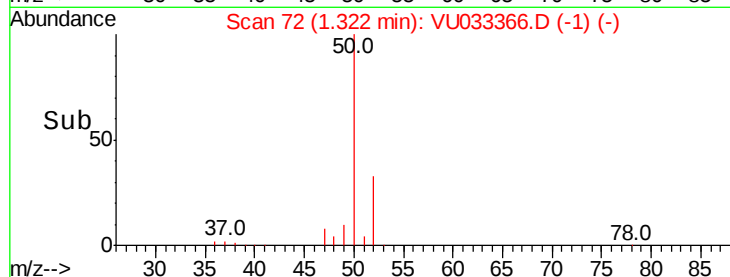
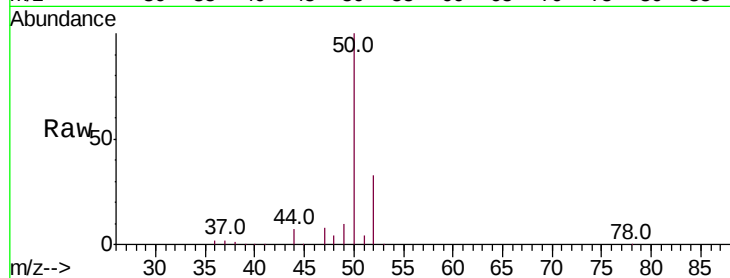
52 32.6 26.1 39.1

Manual Integrations

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7/23/2019 8:55:19 AM



#4

Vinyl Chloride

Concen: 7.930 ug/l

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033366.D

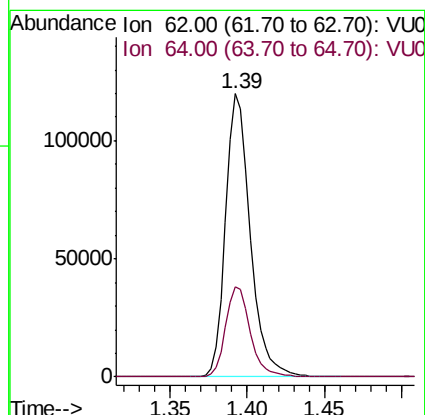
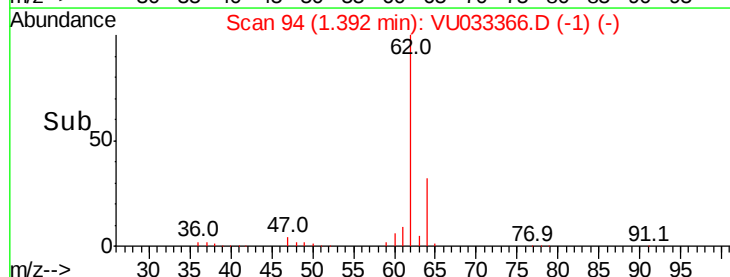
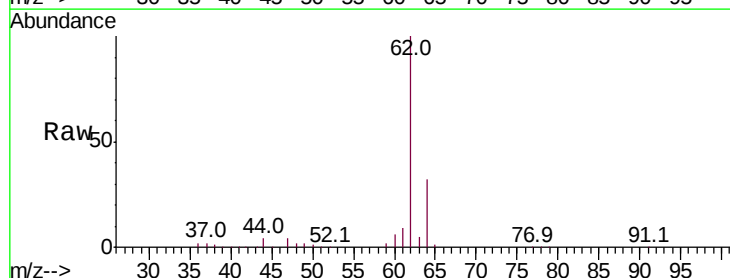
Acq: 22 Jul 2019 21:52

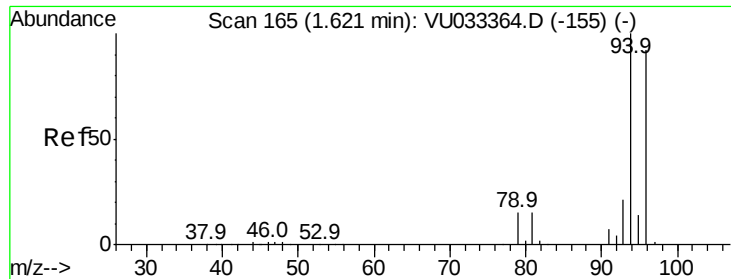
Tgt Ion: 62 Resp: 132651

Ion Ratio Lower Upper

62 100

64 31.9 25.6 38.4





#5

Bromomethane

Concen: 8.299 ug/l

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU072219

Tot Ion: 94 Resp: 87391

Ion Ratio Lower Upper

94 100

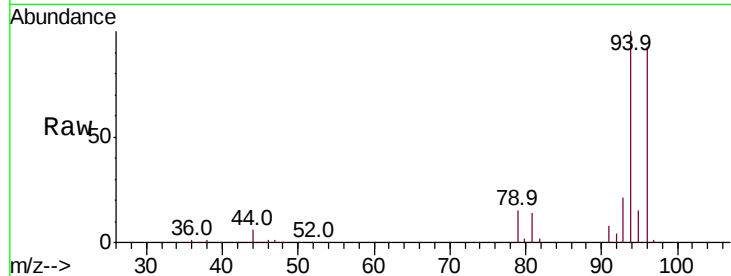
96 93.4 73.2 109.8

Manual Integrations

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7/23/2019 8:55:19 AM



Abundance Ion 94.00 (93.70 to 94.70): VU033366.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU033366.D (-155) (-)

1.62

80000

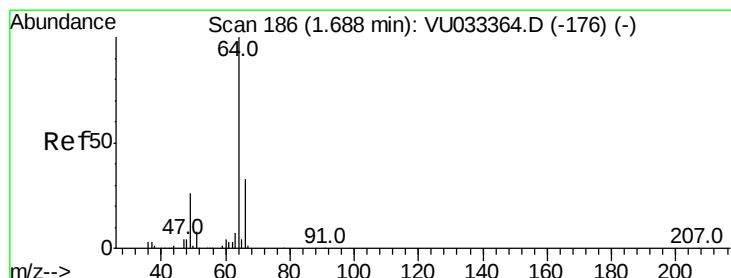
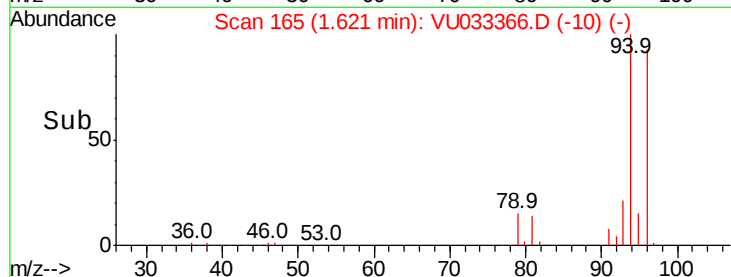
60000

40000

20000

0

Time-->



#6

Chloroethane

Concen: 8.398 ug/l

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033366.D

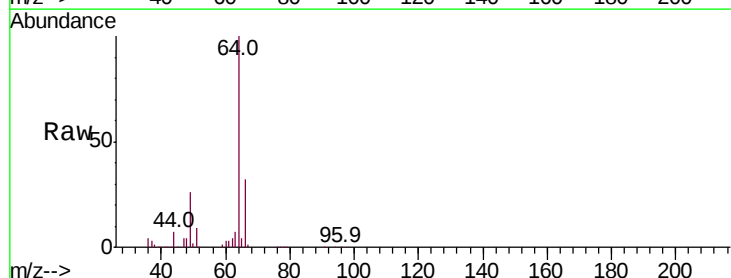
Acq: 22 Jul 2019 21:52

Tgt Ion: 64 Resp: 98660

Ion Ratio Lower Upper

64 100

66 32.1 26.4 39.6



Abundance Ion 64.00 (63.70 to 64.70): VU033366.D (-176) (-)

Ion 66.00 (65.70 to 66.70): VU033366.D (-176) (-)

1.69

80000

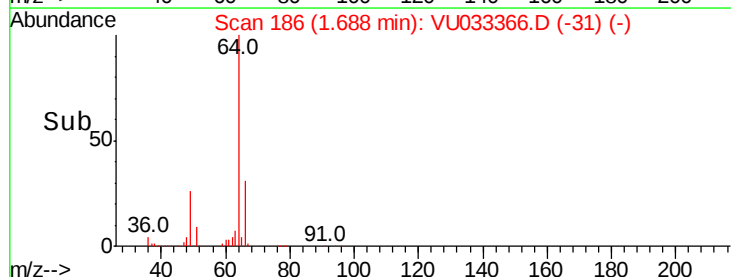
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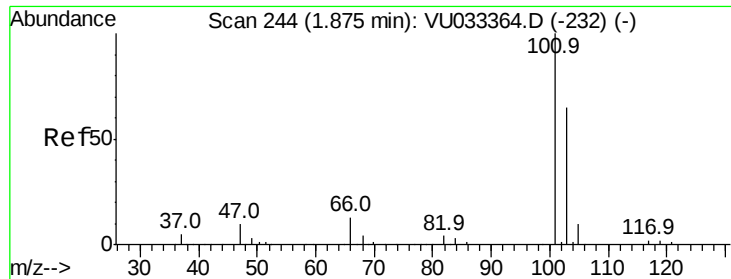
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20000

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Time-->





#7

Trichlorofluoromethane

Concen: 8.601 ug/l

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU072219

Tot Ion:101 Resp: 197553

Ion Ratio Lower Upper

101 100

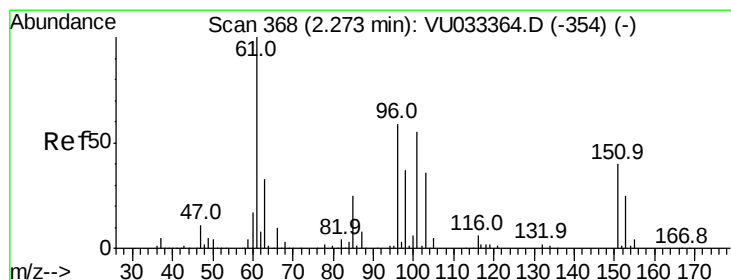
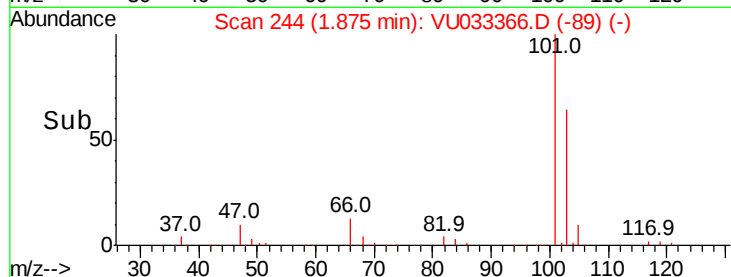
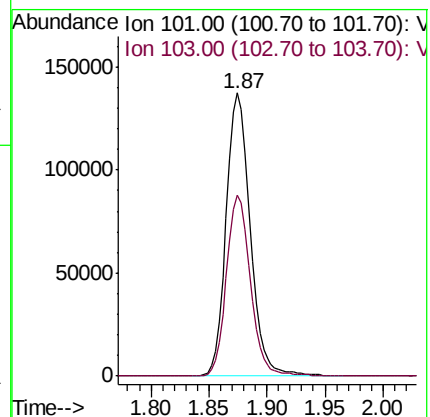
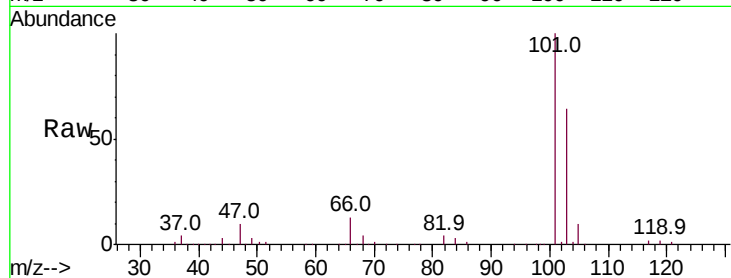
103 63.9 52.2 78.2

Manual Integrations

APPROVED

MMDadoda

7/23/2019 8:55:19 AM



#8

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

Concen: 9.570 ug/l

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

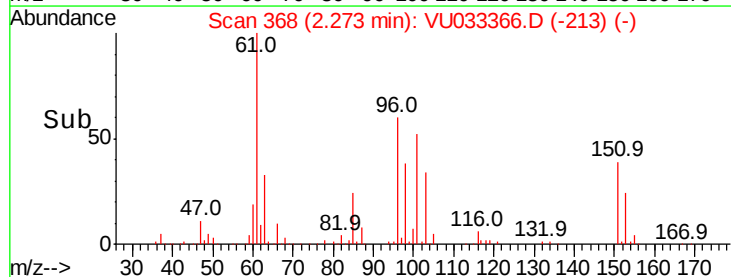
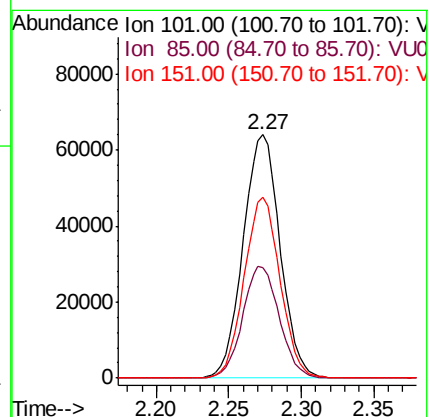
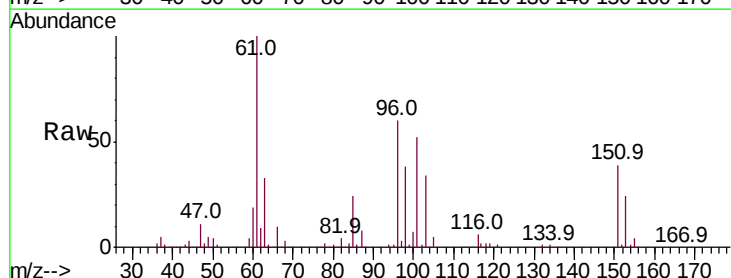
Tgt Ion:101 Resp: 113386

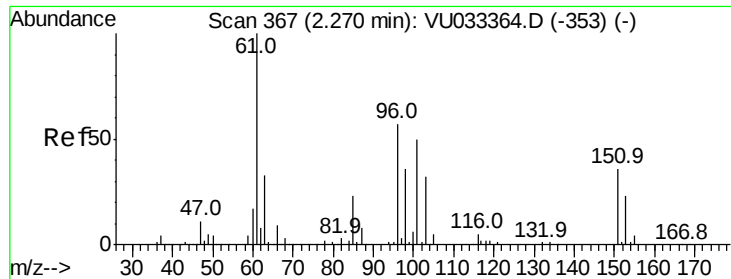
Ion Ratio Lower Upper

101 100

85 45.4 37.5 56.3

151 72.2 58.3 87.5





#9

1,1-Dichloroethene

Concen: 10.093 ug/l

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

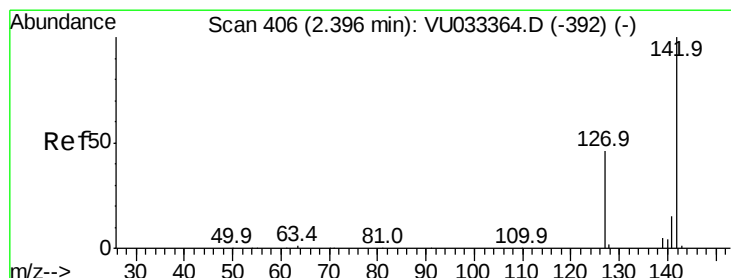
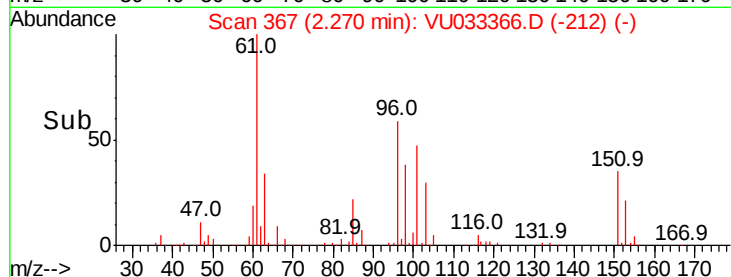
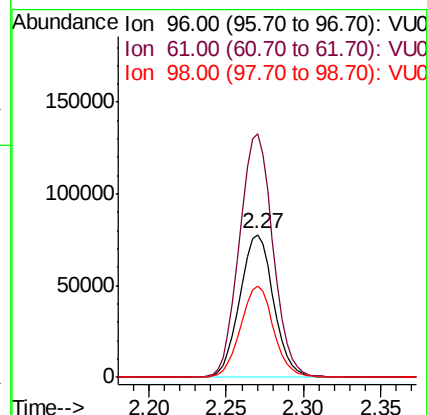
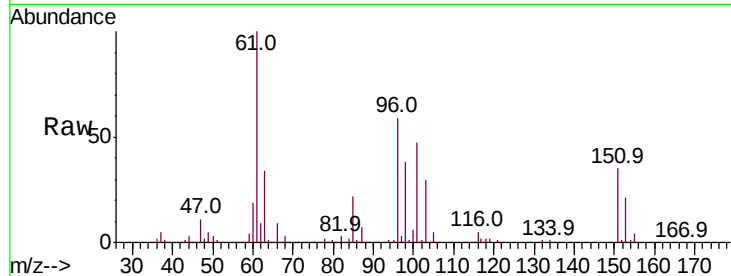
ClientSampleId :

ICVVU072219

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 96    | Resp: | 117780 |
| Ion Ratio | Lower | Upper |        |
| 96        | 100   |       |        |
| 61        | 170.3 | 0.0   | 525.6  |
| 98        | 63.9  | 0.0   | 126.4  |

Manual Integrations  
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#10

Iodomethane

Concen: 9.471 ug/l

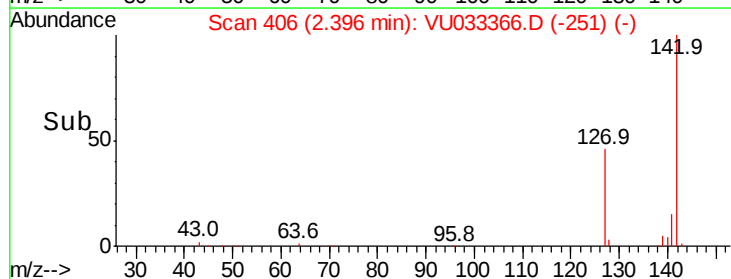
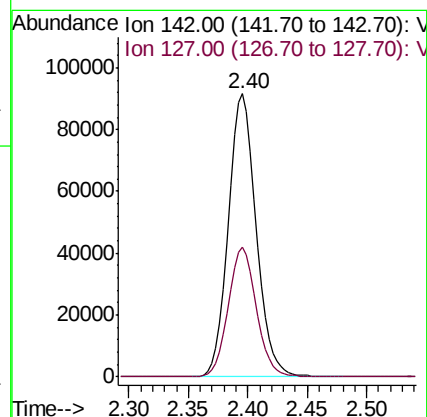
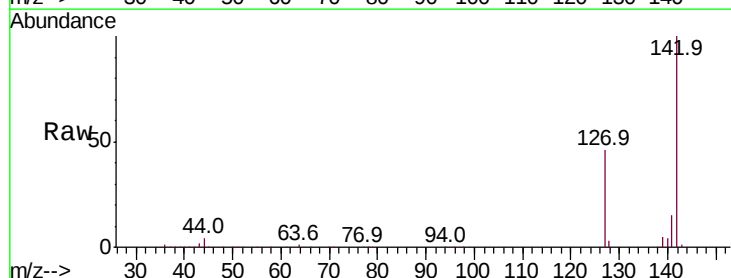
RT: 2.40 min Scan# 406

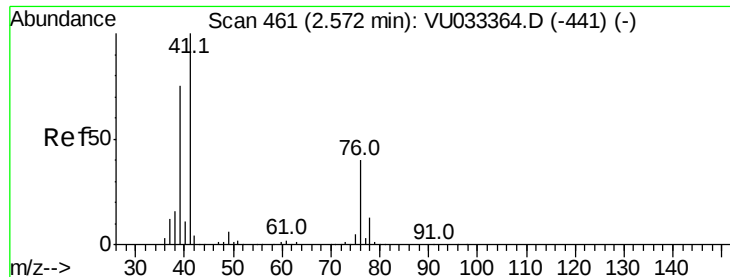
Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 148532 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 46.3  | 37.8  | 56.6   |





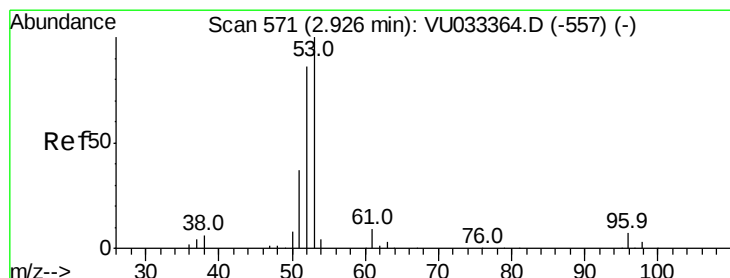
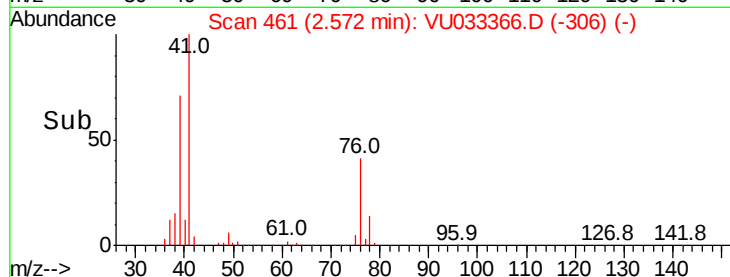
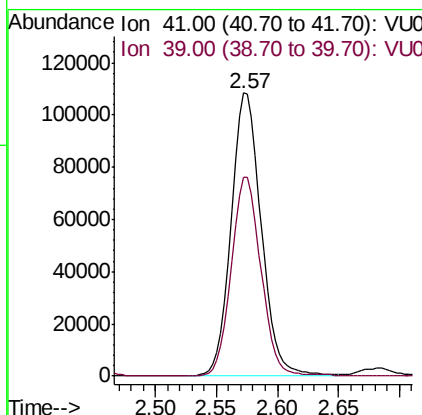
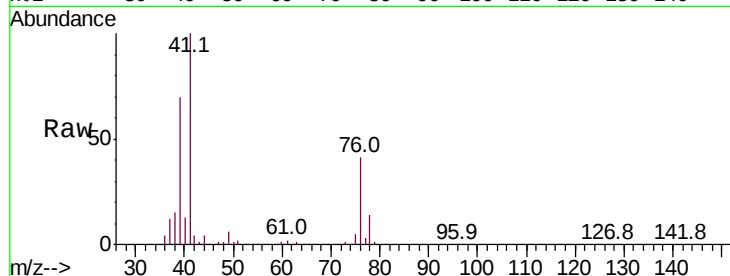
#11  
Allvl Chloride  
Concen: 9.645 ug/l  
RT: 2.57 min Scan# 461  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU072219

Tot Ion: 41 Resp: 185736  
Ion Ratio Lower Upper  
41 100  
39 68.9 58.7 88.1

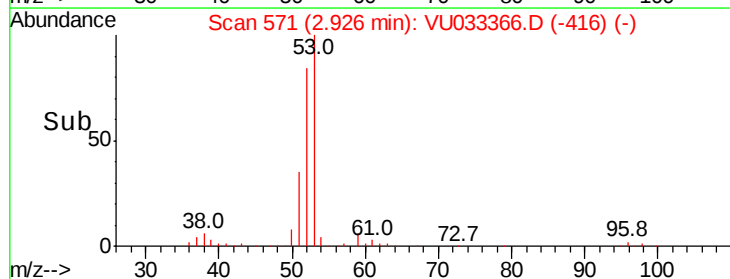
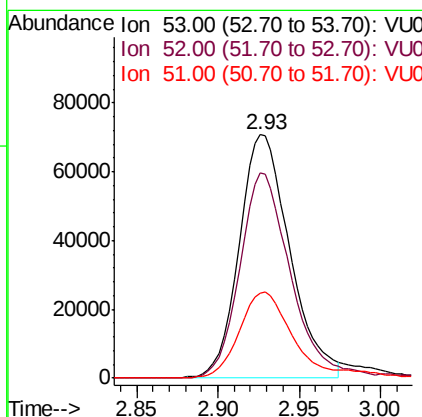
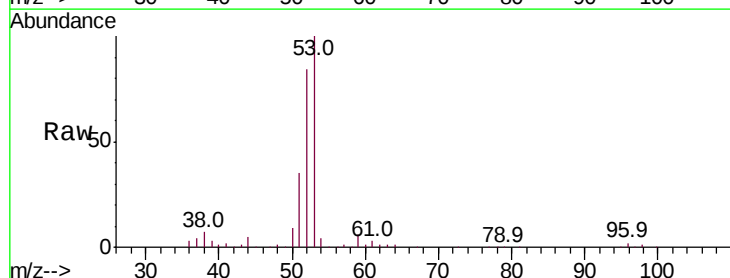
Manual Integrations  
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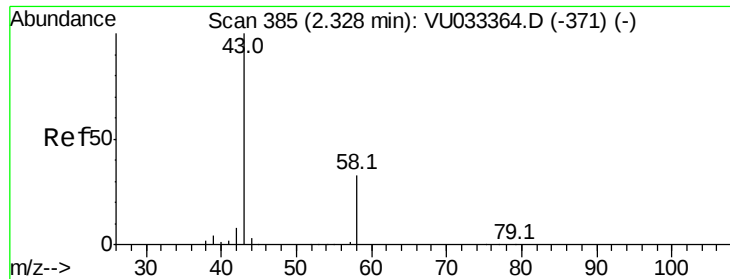
MMDadoda  
7/23/2019 8:55:19 AM



#12  
Acrylonitrile  
Concen: 47.252 ug/l m  
RT: 2.93 min Scan# 571  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Tgt Ion: 53 Resp: 153915  
Ion Ratio Lower Upper  
53 100  
52 84.2 69.8 104.8  
51 37.3 29.1 43.7





#13

Acetone

Concen: 43.682 ug/l

RT: 2.33 min Scan# 385

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU072219

Tot Ion: 43 Resp: 121399

Ion Ratio Lower Upper

43 100

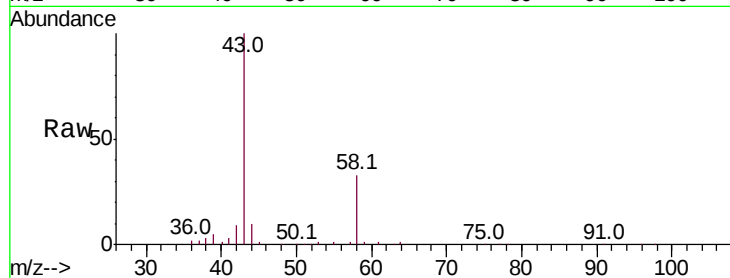
58 33.3 26.3 39.5

Manual Integrations

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Abundance Ion 43.00 (42.70 to 43.70): VU033366.D (-230) (-)

Ion 58.00 (57.70 to 58.70): VU033366.D (-230) (-)

2.33

50000

40000

30000

20000

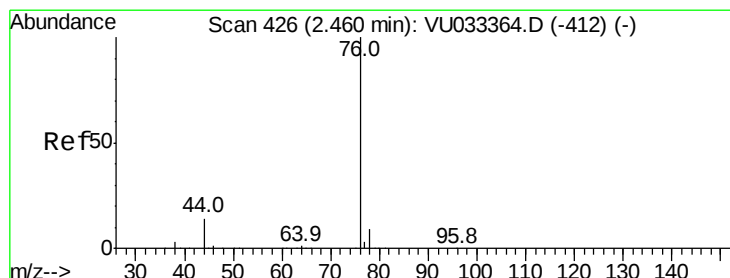
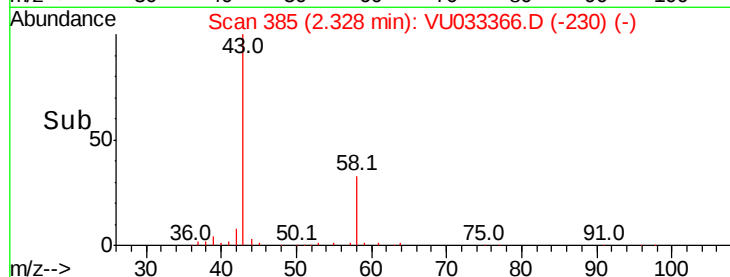
10000

0

2.30

2.40

Time-->



#14

Carbon Disulfide

Concen: 8.551 ug/l

RT: 2.46 min Scan# 426

Delta R.T. -0.00 min

Lab File: VU033366.D

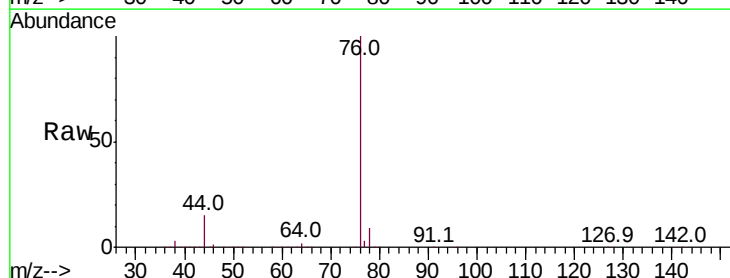
Acq: 22 Jul 2019 21:52

Tgt Ion: 76 Resp: 379155

Ion Ratio Lower Upper

76 100

78 8.8 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VU033366.D (-271) (-)

Ion 78.00 (77.70 to 78.70): VU033366.D (-271) (-)

2.46

250000

200000

150000

100000

50000

0

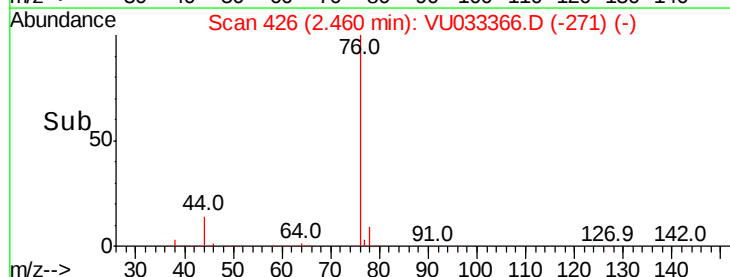
2.40

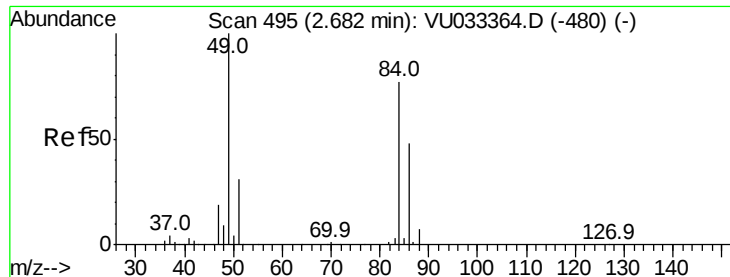
2.45

2.50

2.55

Time-->





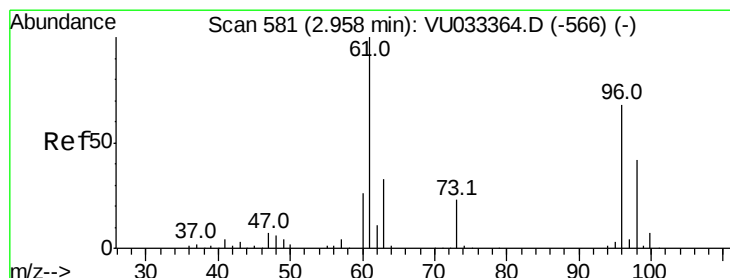
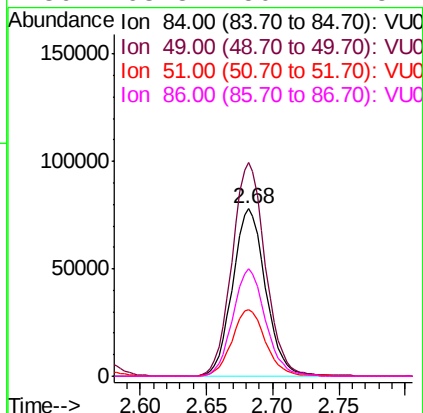
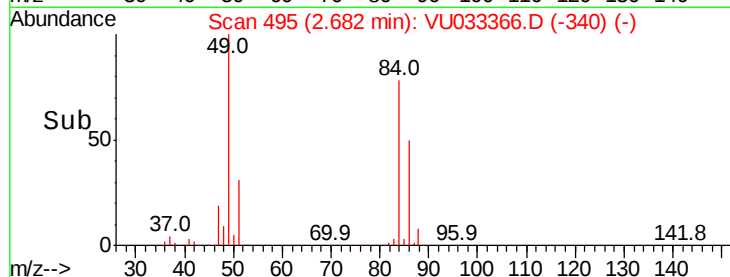
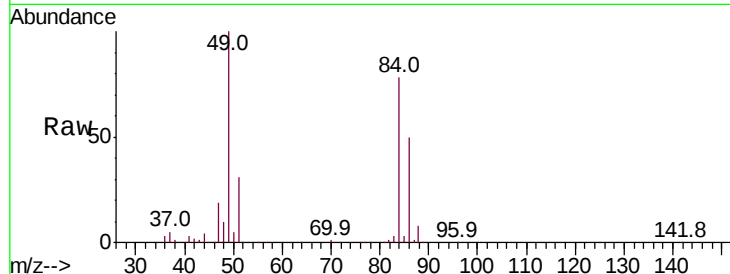
#15  
Methvlene Chloride  
Concen: 8.579 ug/l  
RT: 2.68 min Scan# 495  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU072219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 127.4 | 103.5 | 155.3 |
| 51      | 40.0  | 0.0   | 80.4  |
| 86      | 63.8  | 50.1  | 75.1  |

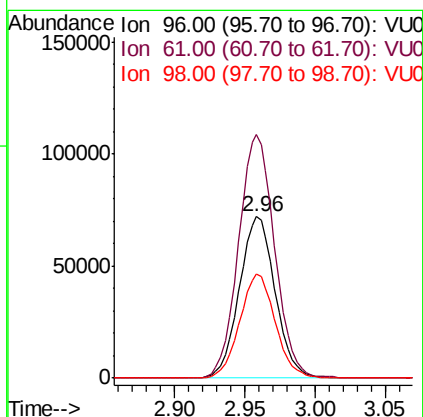
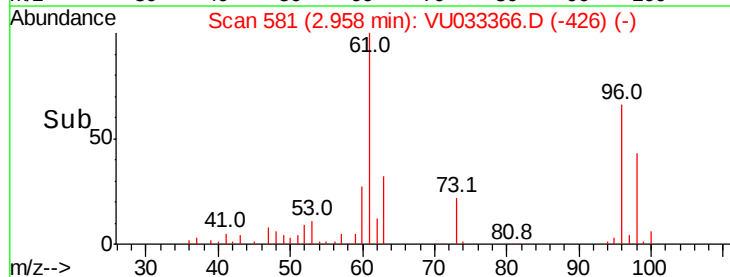
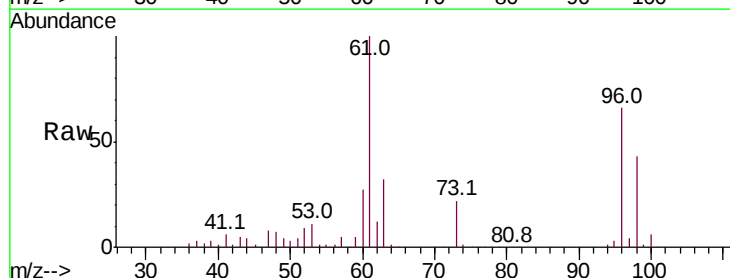
Manual Integrations  
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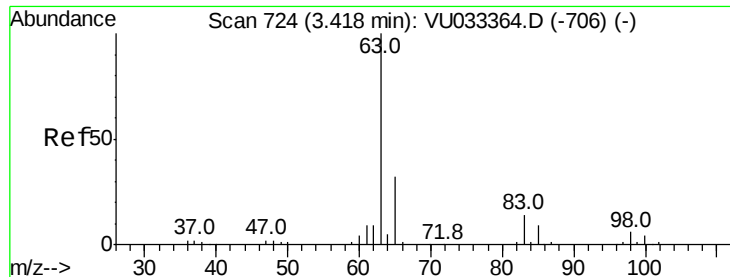
MMDadoda  
7/23/2019 8:55:19 AM



#16  
trans-1,2-Dichloroethene  
Concen: 9.272 ug/l  
RT: 2.96 min Scan# 581  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 150.6 | 118.0 | 177.0 |
| 98      | 64.2  | 49.4  | 74.2  |





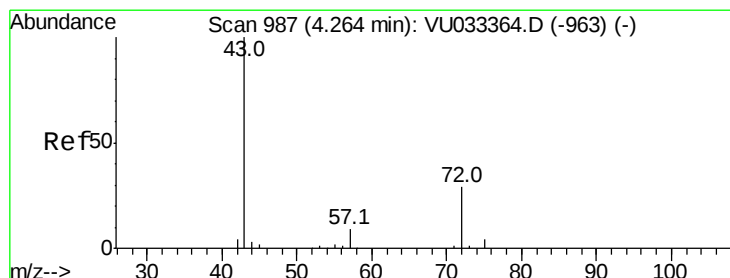
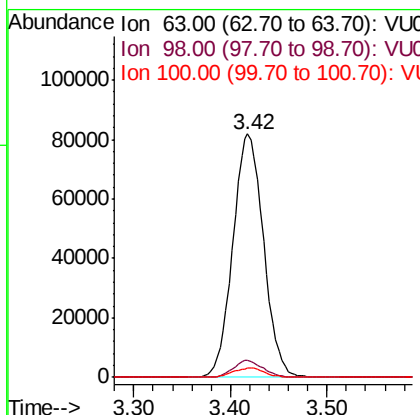
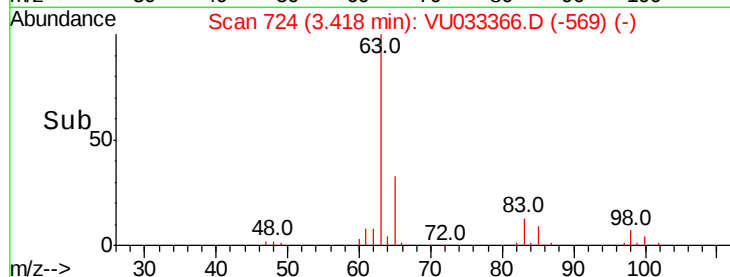
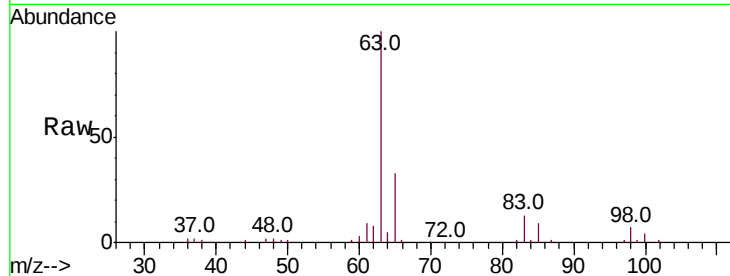
#17  
 1,1-Dichloroethane  
 Concen: 9.693 ug/l  
 RT: 3.42 min Scan# 724  
 Delta R.T. -0.00 min  
 Lab File: VU033366.D  
 Acq: 22 Jul 2019 21:52

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU072219

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 63      | 100   |      |       |       |
| 98      | 7.0   | 3.2  | 9.6   |       |
| 100     | 3.9   | 2.1  | 6.2   |       |

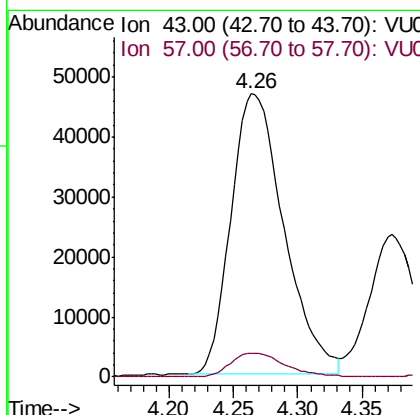
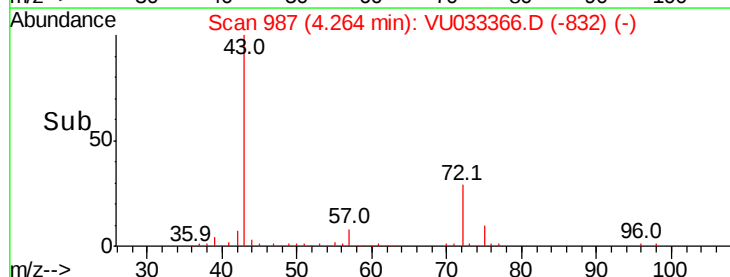
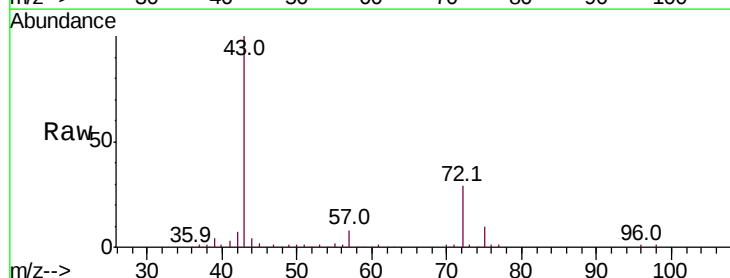
Manual Integrations  
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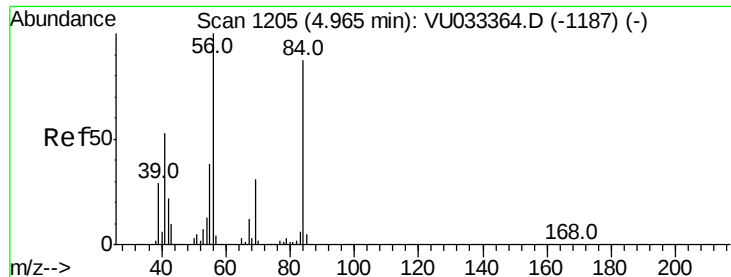
MMDadoda  
 7/23/2019 8:55:19 AM



#18  
 2-Butanone  
 Concen: 50.342 ug/l  
 RT: 4.26 min Scan# 987  
 Delta R.T. -0.00 min  
 Lab File: VU033366.D  
 Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 43      | 100   |      |       |       |
| 57      | 8.4   | 0.0  | 17.0  |       |





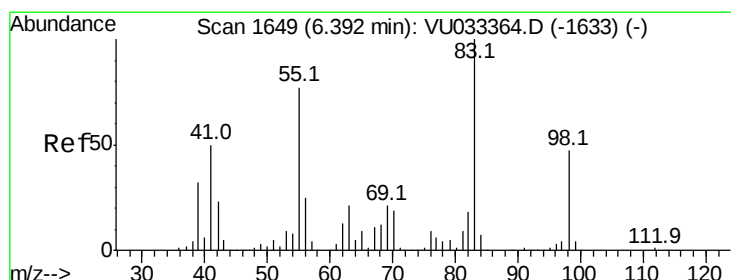
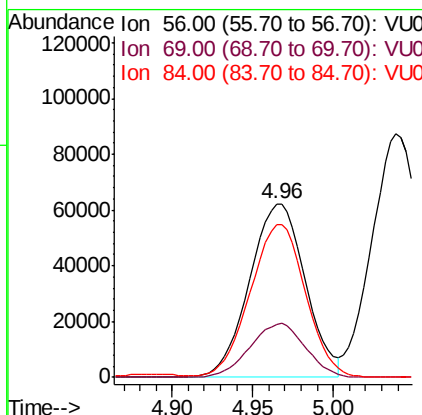
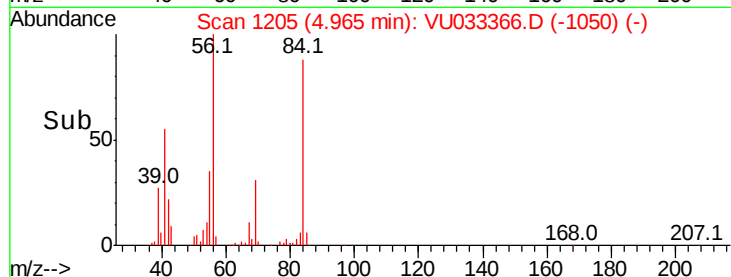
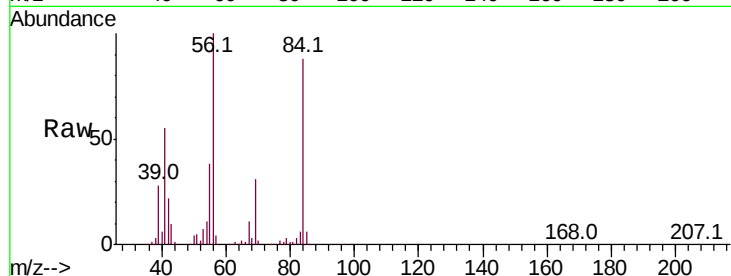
#19  
Cyclohexane  
Concen: 10.909 ug/l m  
RT: 4.96 min Scan# 1205  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU072219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 30.9  | 25.0  | 37.4  |
| 84      | 86.3  | 69.8  | 104.6 |

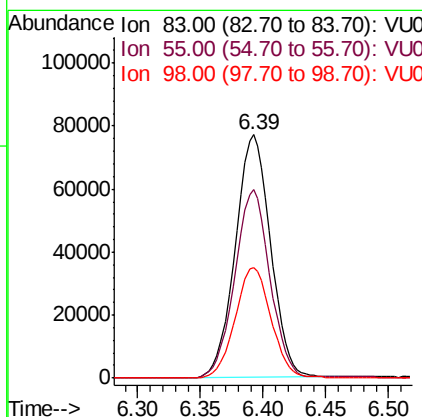
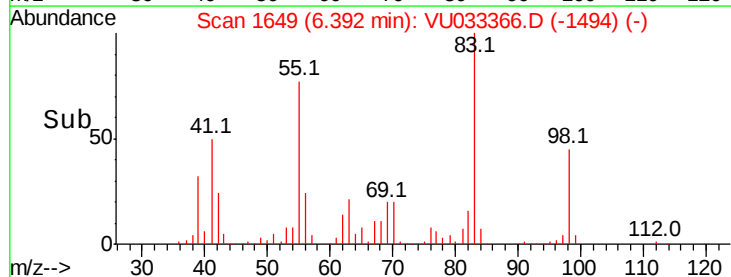
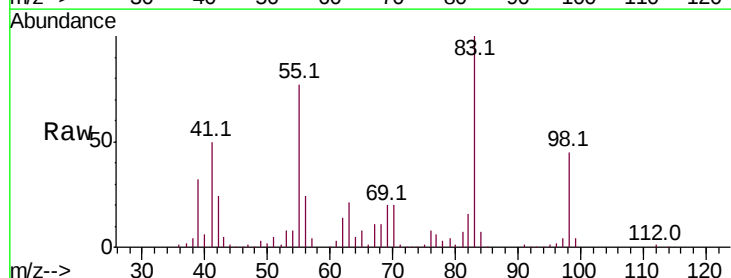
Manual Integrations  
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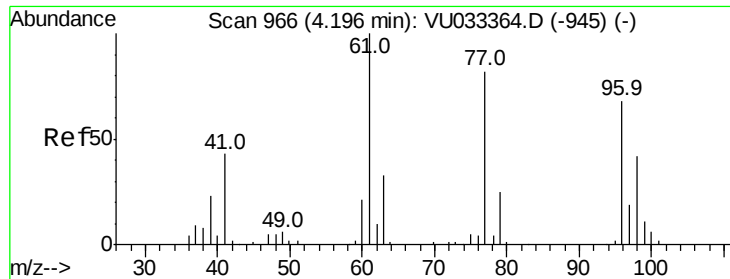
MMDadoda  
7/23/2019 8:55:19 AM



#20  
Methylcyclohexane  
Concen: 10.995 ug/l  
RT: 6.39 min Scan# 1649  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 77.0  | 62.3  | 93.5  |
| 98      | 46.0  | 37.4  | 56.0  |





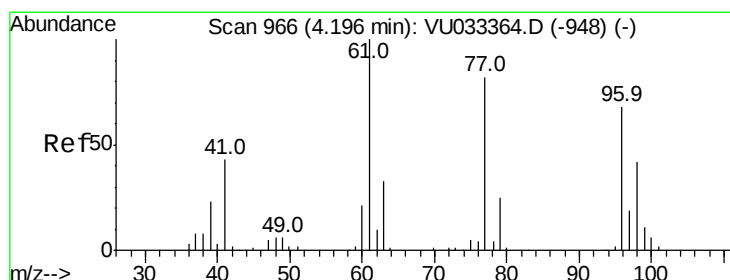
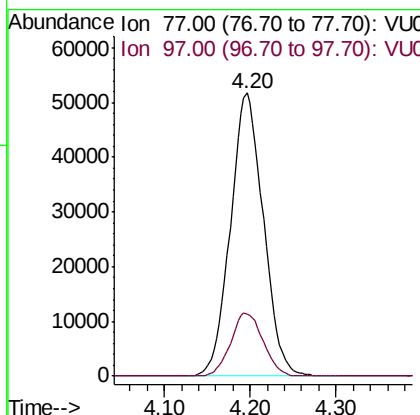
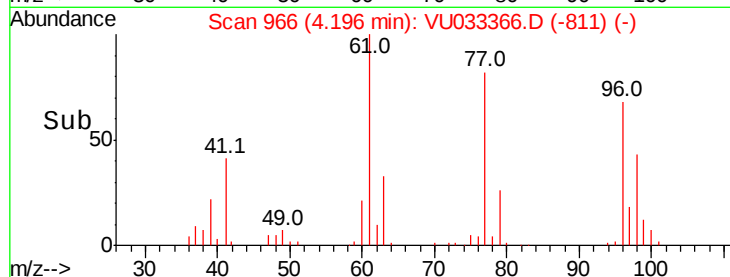
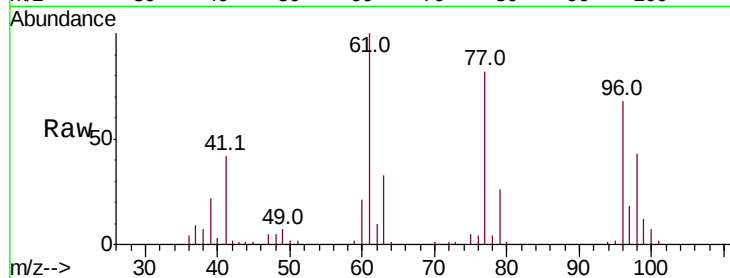
#21  
 2,2-Dichloropropane  
 Concen: 8.722 ug/l  
 RT: 4.20 min Scan# 966  
 Delta R.T. -0.00 min  
 Lab File: VU033366.D  
 Acq: 22 Jul 2019 21:52

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU072219

Tot Ion: 77 Resp: 137450  
 Ion Ratio Lower Upper  
 77 100  
 97 22.0 17.8 26.8

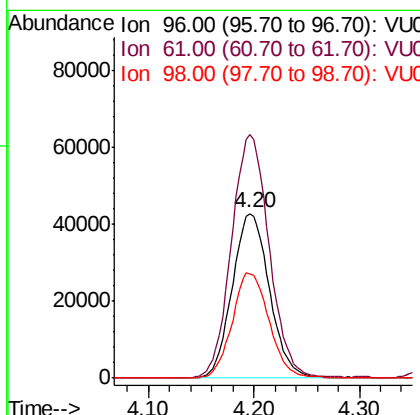
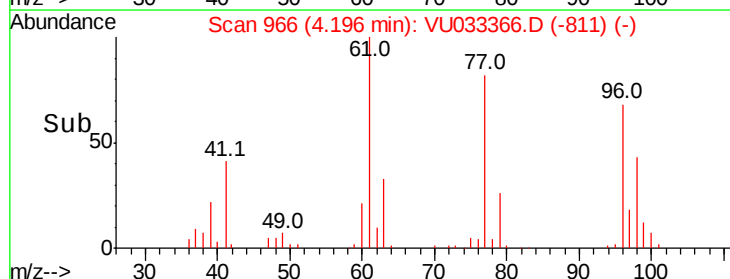
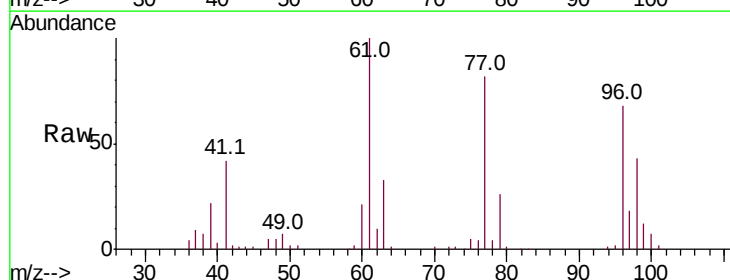
Manual Integrations  
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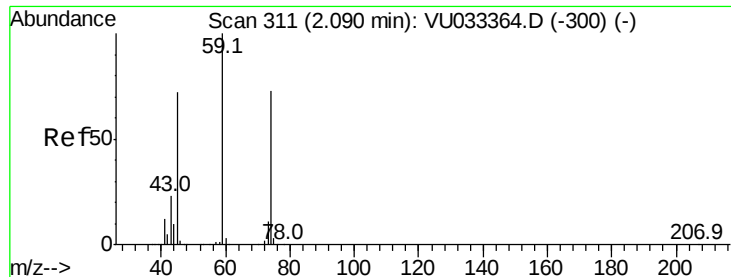
MMDadoda  
 7/23/2019 8:55:19 AM



#22  
 cis-1,2-Dichloroethene  
 Concen: 10.004 ug/l  
 RT: 4.20 min Scan# 966  
 Delta R.T. -0.00 min  
 Lab File: VU033366.D  
 Acq: 22 Jul 2019 21:52

Tgt Ion: 96 Resp: 105058  
 Ion Ratio Lower Upper  
 96 100  
 61 150.0 0.0 376.3  
 98 63.5 31.9 95.9





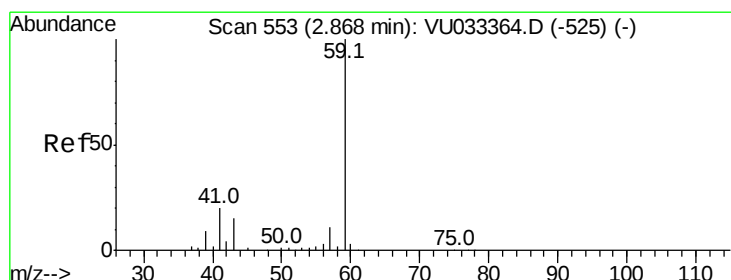
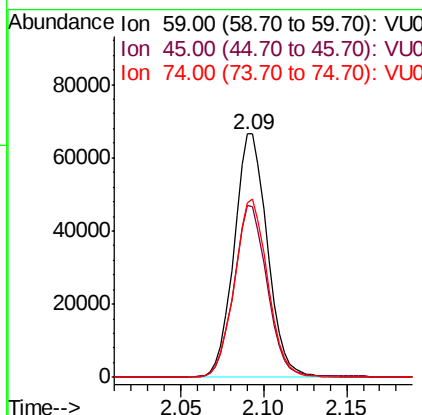
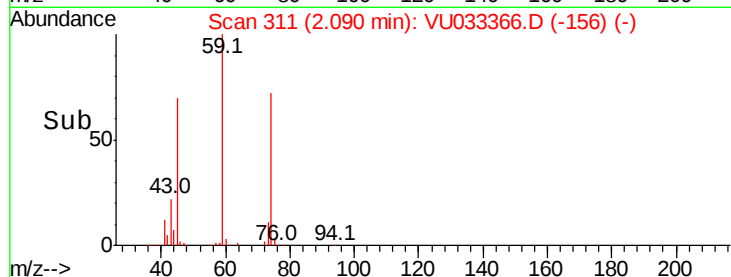
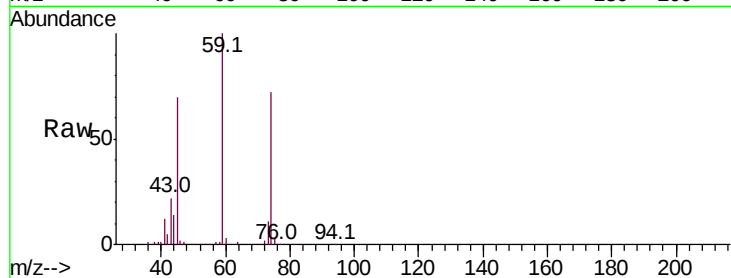
#23  
Diethyl Ether  
Concen: 9.228 ug/l  
RT: 2.09 min Scan# 311  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU072219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 45      | 70.1  | 57.6  | 86.4  |
| 74      | 73.4  | 57.8  | 86.6  |

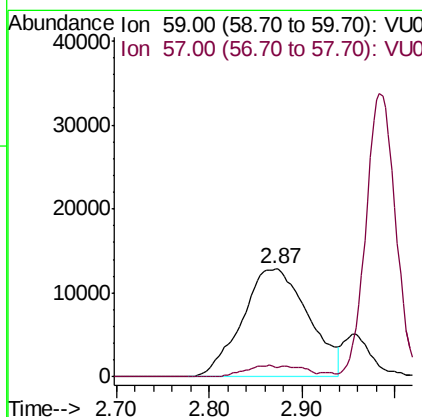
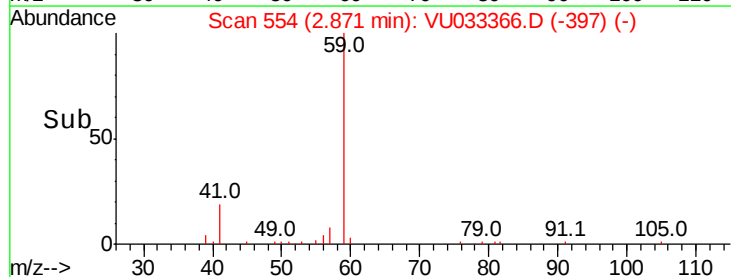
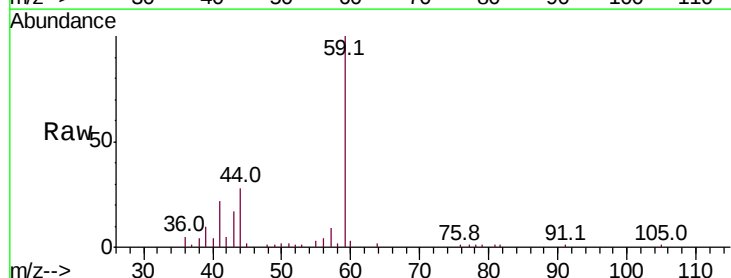
Manual Integrations  
APPROVED

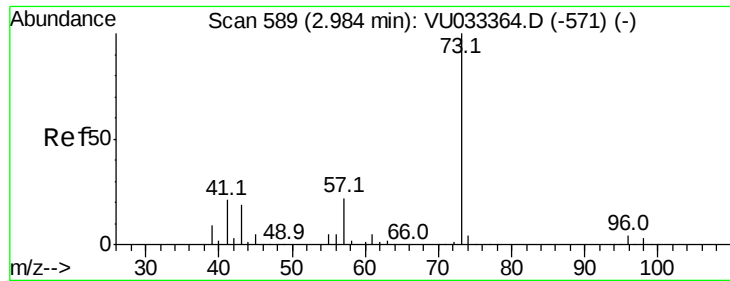
MMDadoda  
7/23/2019 8:55:19 AM



#24  
tert-Butyl Alcohol  
Concen: 49.152 ug/l  
RT: 2.87 min Scan# 554  
Delta R.T. 0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 4.7   | 7.8   | 11.8# |





#25

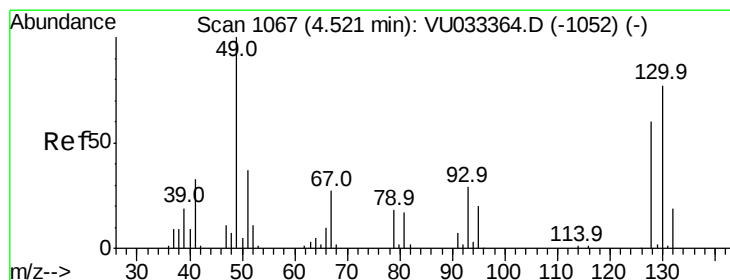
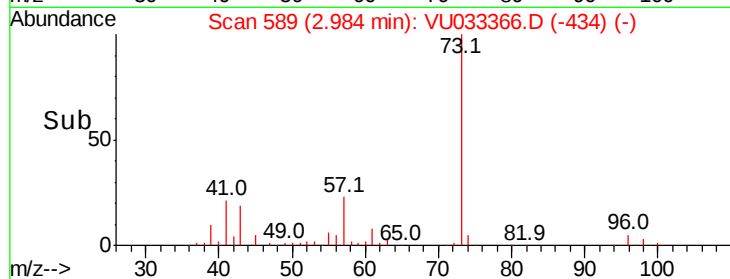
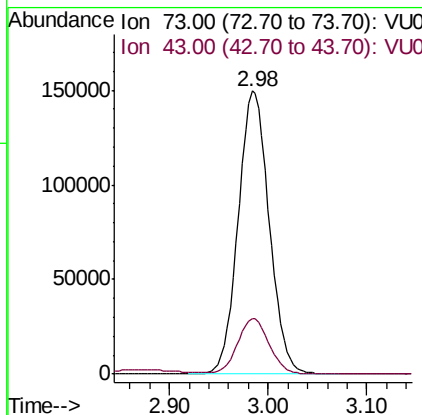
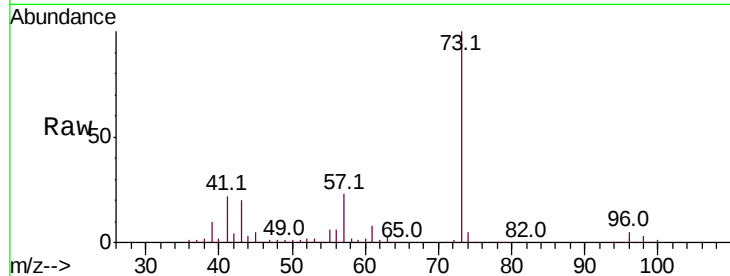
Methyl tert-Butyl Ether  
Concen: 9.689 ug/l  
RT: 2.98 min Scan# 589  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU072219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 19.6  | 16.6  | 24.8  |

Manual Integrations  
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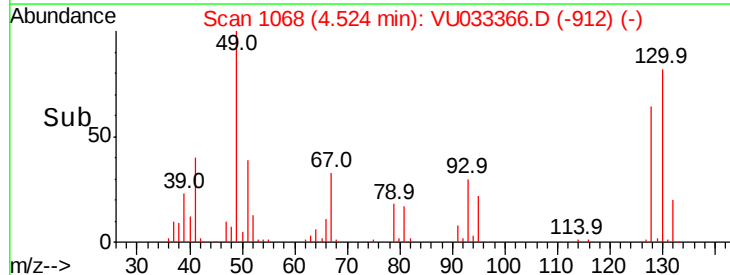
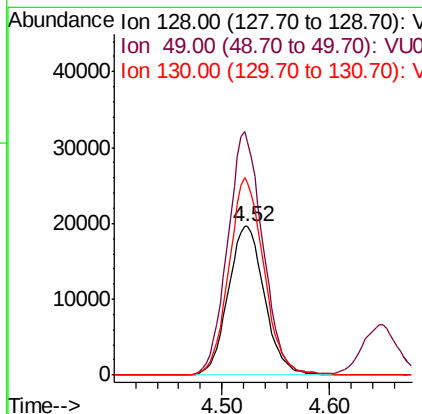
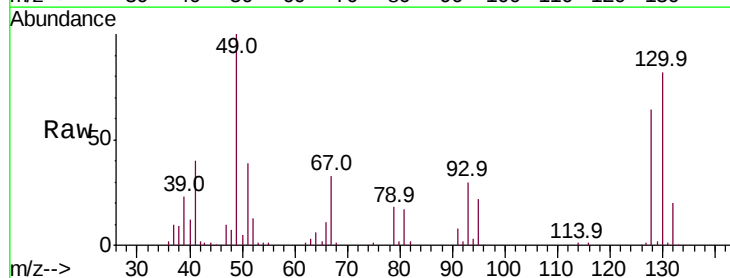
MMDadoda  
7/23/2019 8:55:19 AM

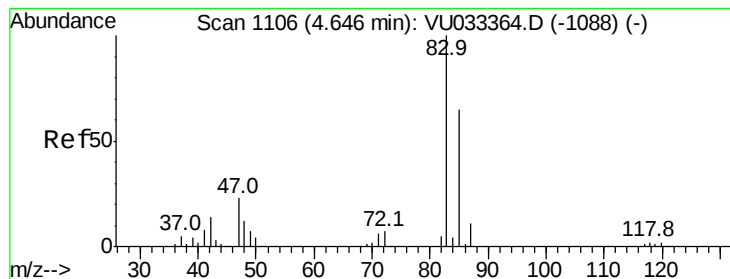


#26

Bromochloromethane  
Concen: 9.947 ug/l  
RT: 4.52 min Scan# 1068  
Delta R.T. 0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 159.1 | 0.0   | 333.4 |
| 130     | 128.1 | 103.4 | 155.2 |





#27

Chloroform

Concen: 8.812 ug/l

RT: 4.65 min Scan# 1107

Delta R.T. 0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU072219

Tot Ion: 83 Resp: 187309

Ion Ratio Lower Upper

83 100

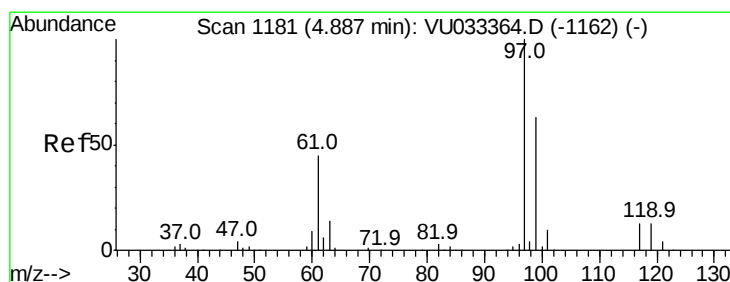
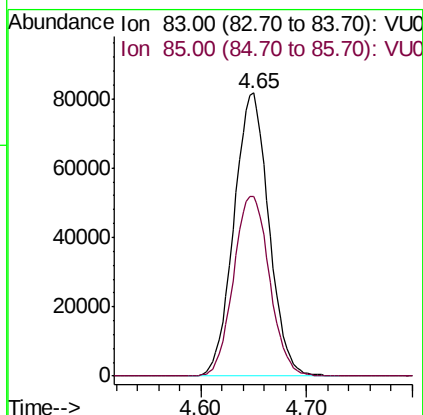
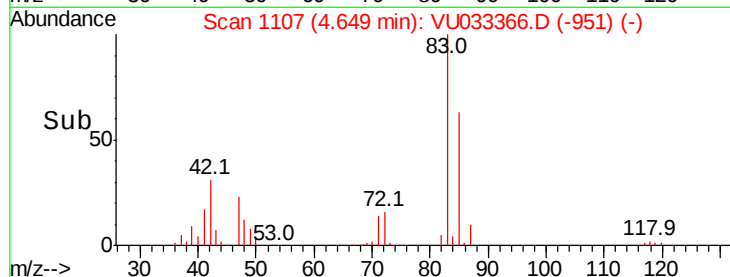
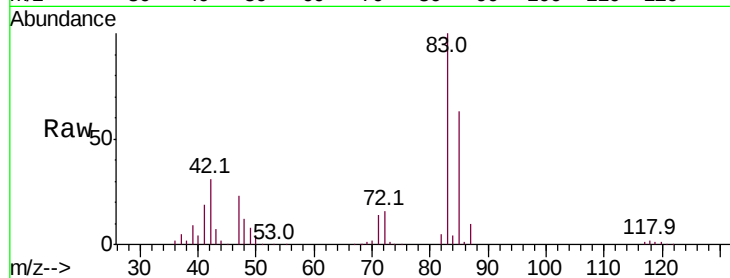
85 63.4 0.0 129.8

Manual Integrations

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#28

1,1,1-Trichloroethane

Concen: 9.759 ug/l

RT: 4.89 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

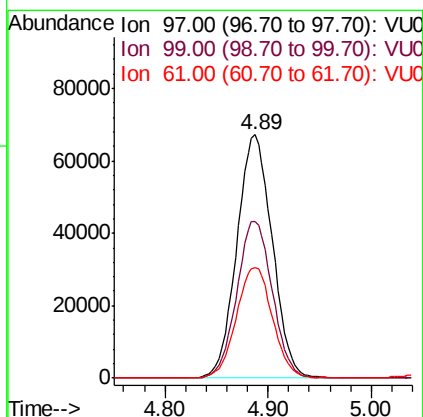
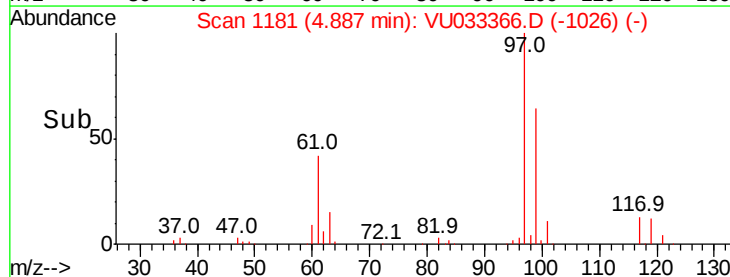
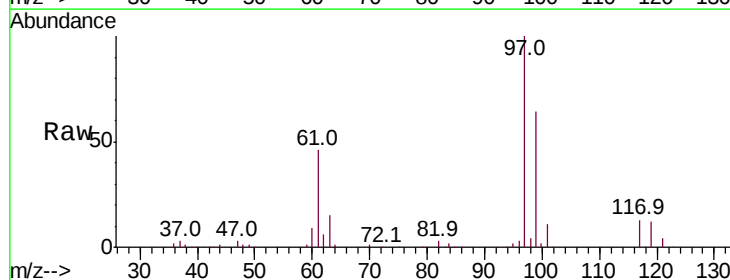
Tgt Ion: 97 Resp: 160591

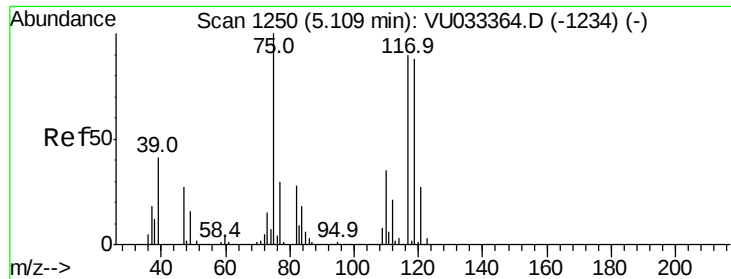
Ion Ratio Lower Upper

97 100

99 64.5 31.9 95.5

61 46.4 22.7 68.0





#29

1,1-Dichloropropene

Concen: 10.105 ug/l

RT: 5.11 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

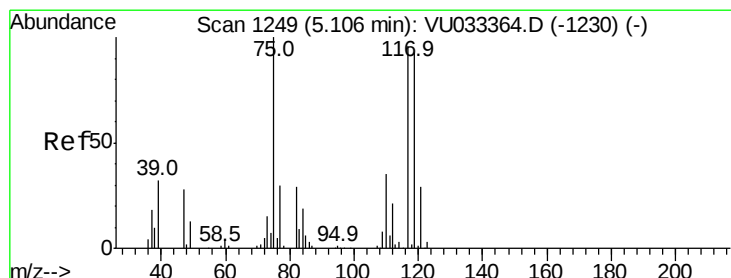
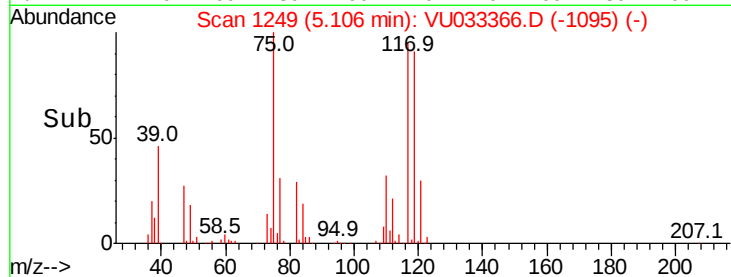
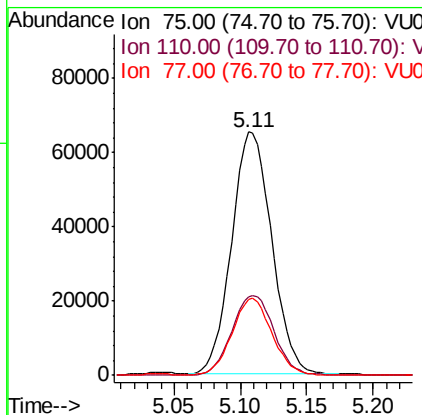
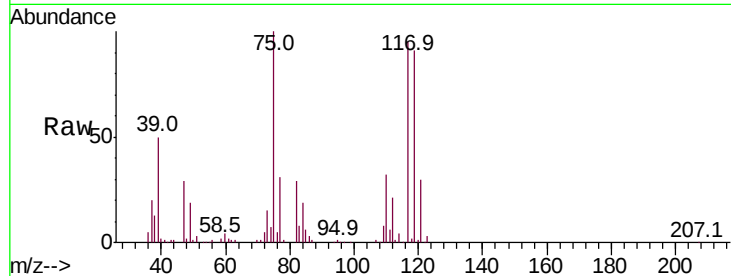
ClientSampleId :

ICVVU072219

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 75    | Resp: | 137155 |
| Ion Ratio | Lower | Upper |        |
| 75        | 100   |       |        |
| 110       | 34.8  | 17.5  | 52.6   |
| 77        | 31.0  | 25.1  | 37.7   |

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#30

Carbon Tetrachloride

Concen: 9.750 ug/l

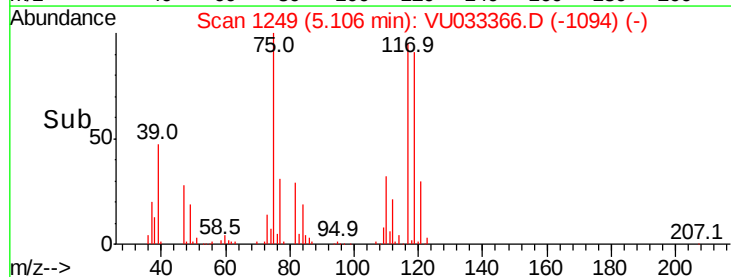
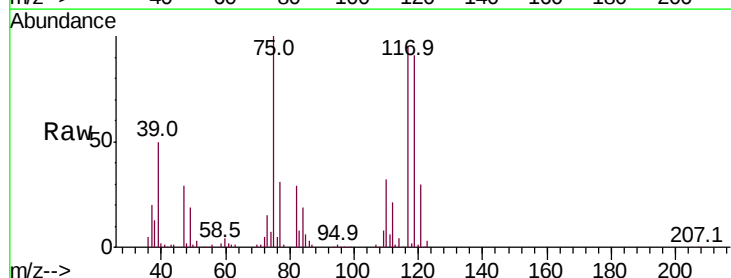
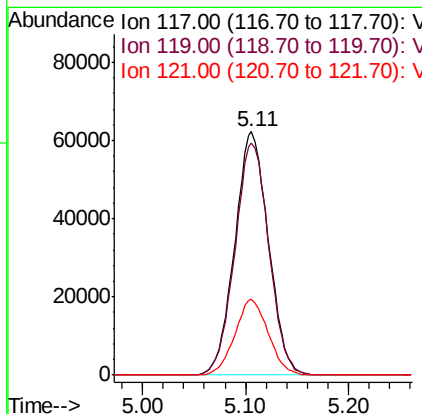
RT: 5.11 min Scan# 1249

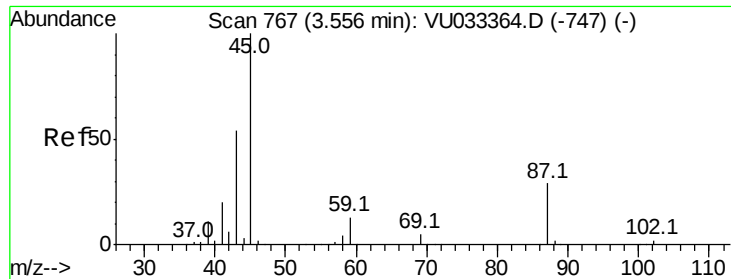
Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 141218 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 95.4  | 77.9  | 116.9  |
| 121       | 31.2  | 24.0  | 36.0   |





#31

Isopropyl Ether

Concen: 11.274 ug/l

RT: 3.56 min Scan# 767

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU072219

Tot Ion: 45 Resp: 265014

Ion Ratio Lower Upper

45 100

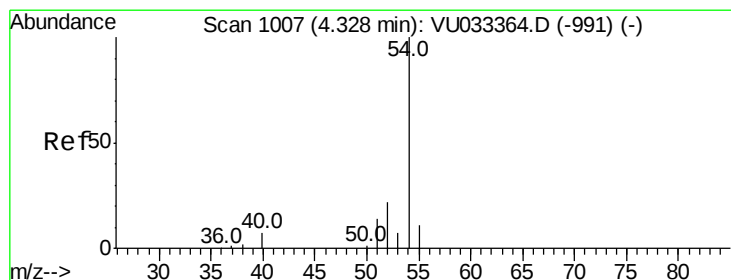
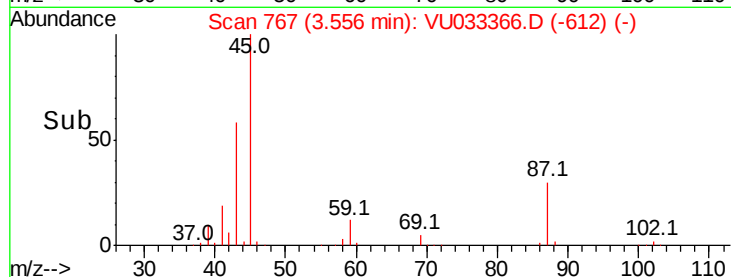
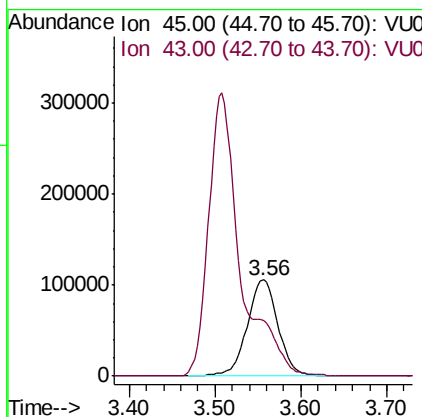
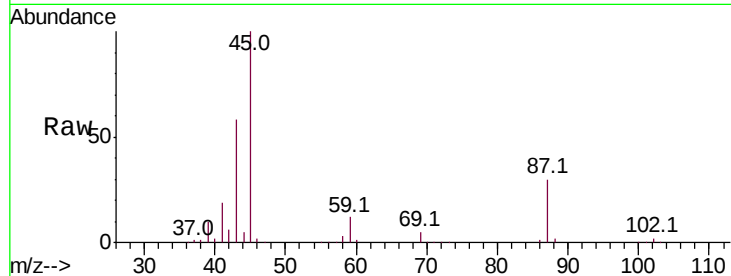
43 302.8 27.8 83.3#

Manual Integrations

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#34

Propionitrile

Concen: 114.094 ug/l

RT: 4.33 min Scan# 1008

Delta R.T. 0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Tgt Ion: 54 Resp: 86819

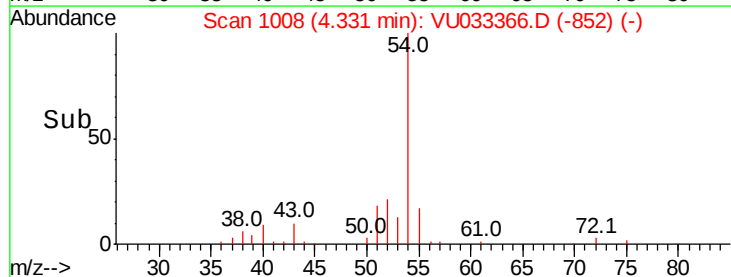
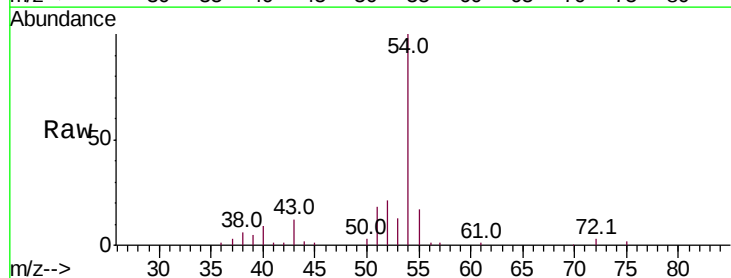
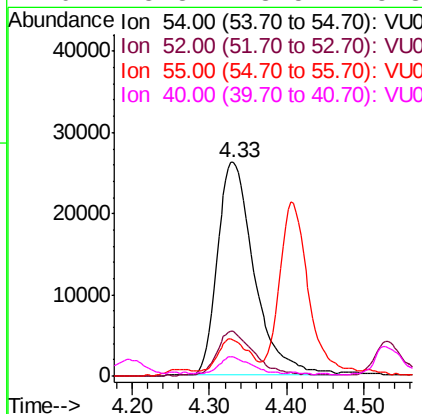
Ion Ratio Lower Upper

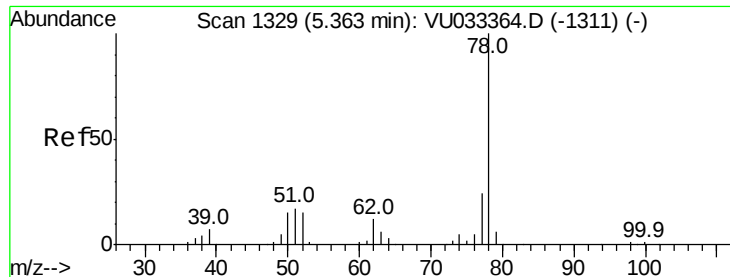
54 100

52 21.5 17.1 25.7

55 11.6 11.6 17.4#

40 5.8 3.5 5.3#





#35

Benzene

Concen: 10.247 ug/l

RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU072219

Tot Ion: 78 Resp: 401835

Ion Ratio Lower Upper

78 100

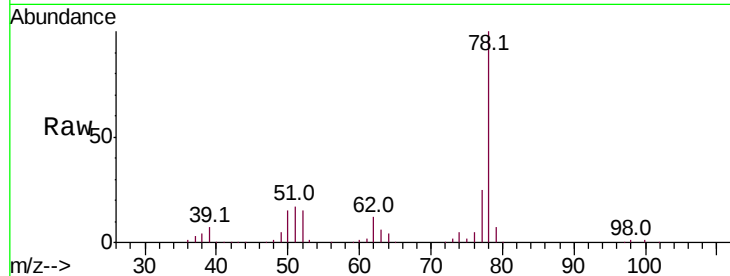
77 24.7 19.4 29.2

Manual Integrations

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Abundance Ion 78.10 (77.80 to 78.80): VU033366.D (-1311) (-)

Ion 77.00 (76.70 to 77.70): VU033366.D (-1311) (-)

5.36

200000

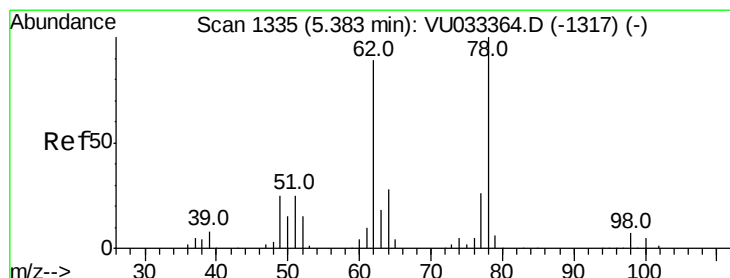
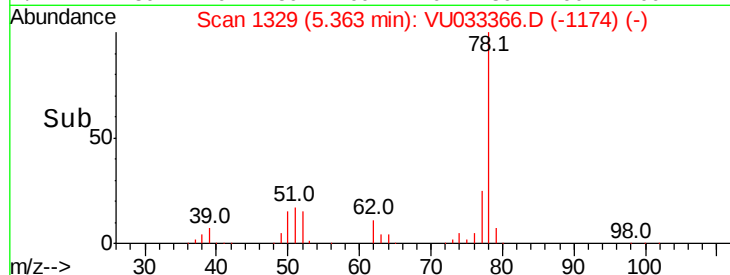
150000

100000

50000

0

Time-->



#36

1,2-Dichloroethane

Concen: 9.929 ug/l

RT: 5.38 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VU033366.D

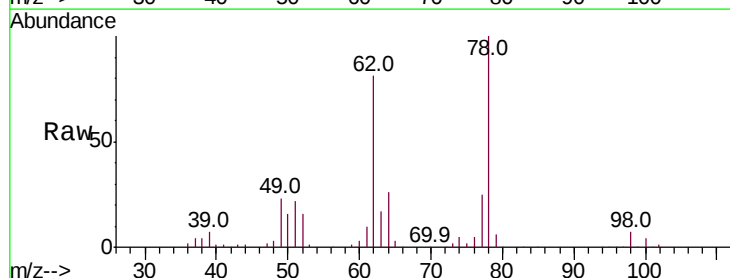
Acq: 22 Jul 2019 21:52

Tgt Ion: 62 Resp: 129588

Ion Ratio Lower Upper

62 100

98 8.5 6.5 9.7



Abundance Ion 62.00 (61.70 to 62.70): VU033366.D (-1180) (-)

Ion 98.00 (97.70 to 98.70): VU033366.D (-1180) (-)

5.38

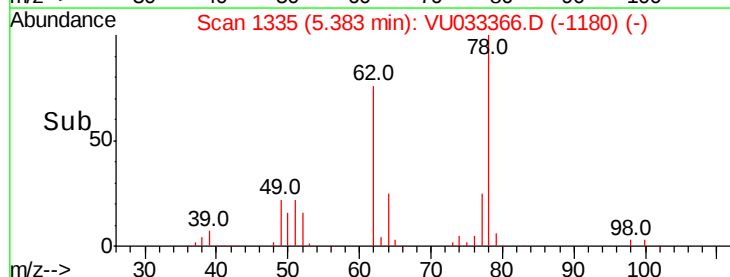
60000

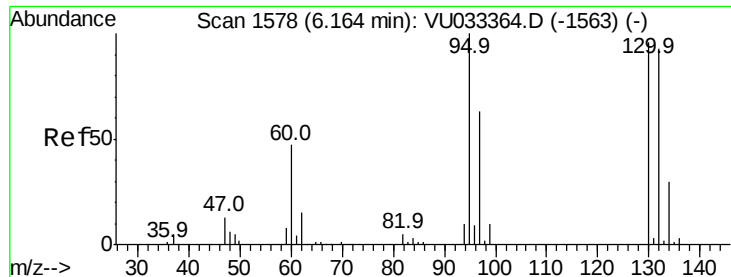
40000

20000

0

Time-->





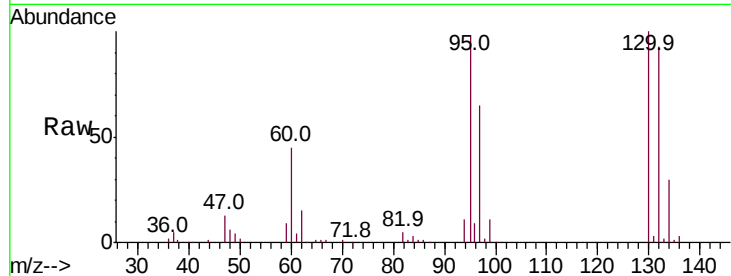
#37  
 Trichloroethene  
 Concen: 10.310 ug/l  
 RT: 6.16 min Scan# 1578  
 Delta R.T. -0.00 min  
 Lab File: VU033366.D  
 Acq: 22 Jul 2019 21:52

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU072219

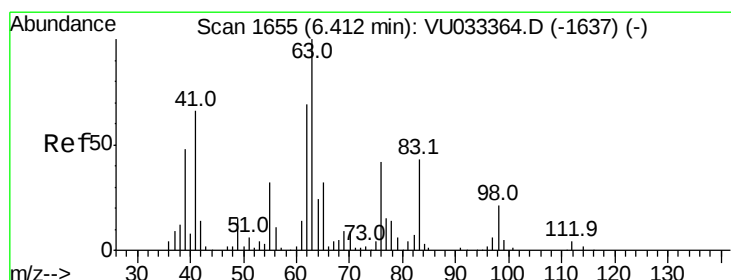
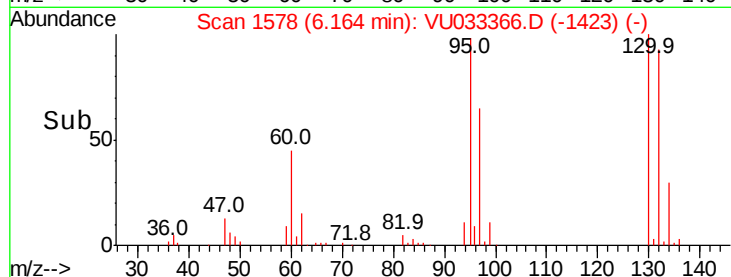
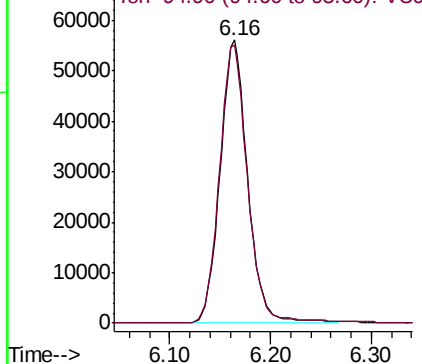
Tot Ion:130 Resp: 106716  
 Ion Ratio Lower Upper  
 130 100  
 95 98.2 83.4 125.0

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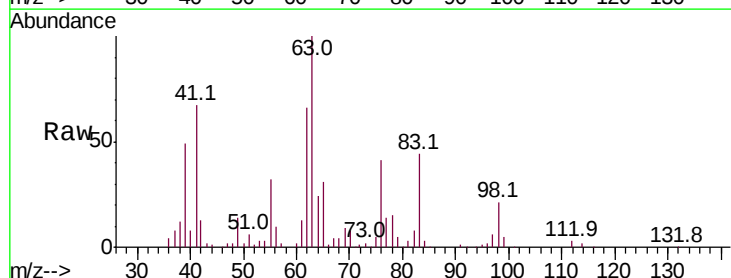


Abundance Ion 129.90 (129.60 to 130.60): VU033364.D (-1563) (-)  
 Ion 94.90 (94.60 to 95.60): VU033364.D (-1563) (-)

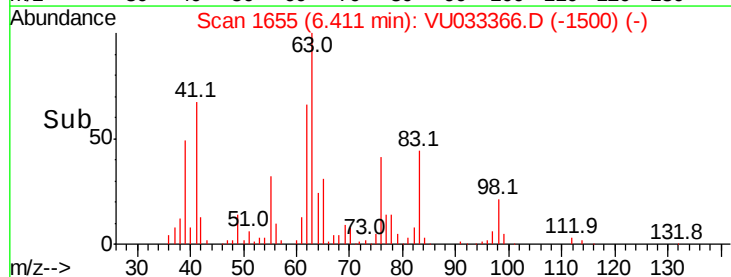
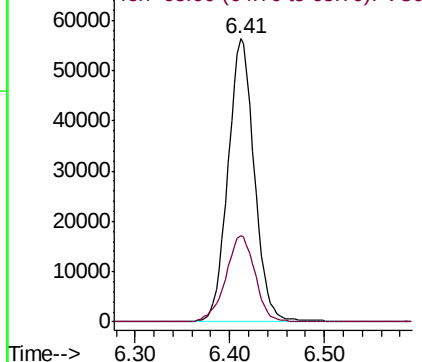


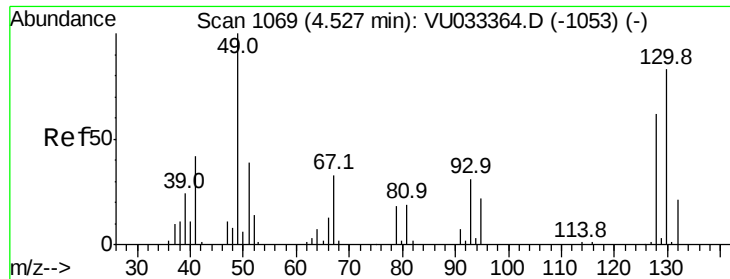
#38  
 1,2-Dichloropropane  
 Concen: 10.075 ug/l  
 RT: 6.41 min Scan# 1655  
 Delta R.T. -0.00 min  
 Lab File: VU033366.D  
 Acq: 22 Jul 2019 21:52

Tgt Ion: 63 Resp: 109010  
 Ion Ratio Lower Upper  
 63 100  
 65 30.6 25.7 38.5



Abundance Ion 63.00 (62.70 to 63.70): VU033364.D (-1637) (-)  
 Ion 65.00 (64.70 to 65.70): VU033364.D (-1637) (-)





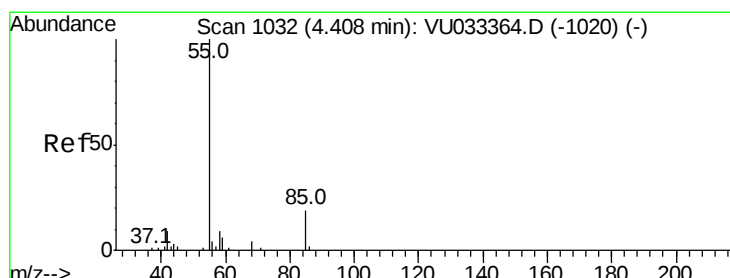
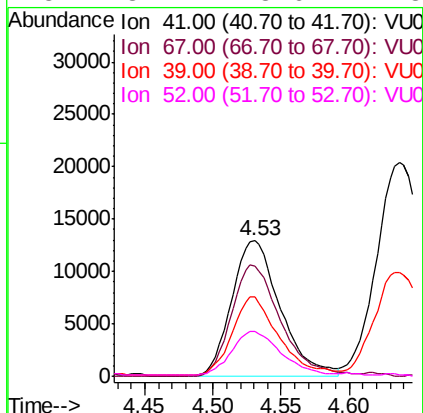
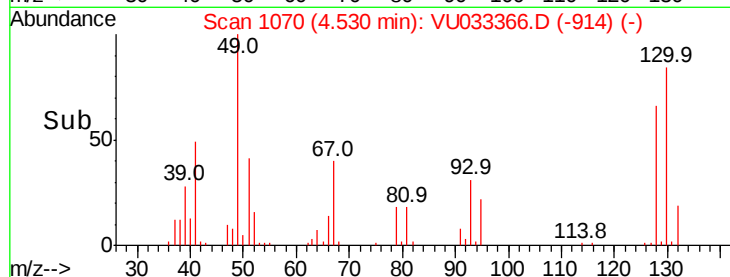
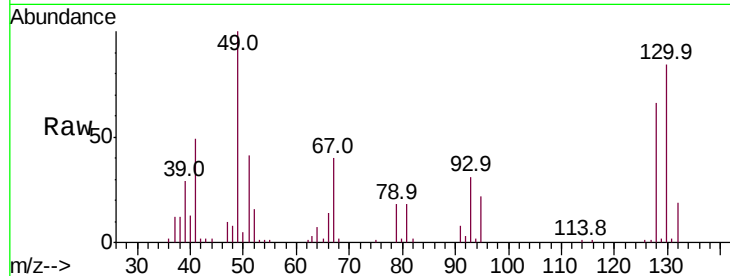
#39  
Methacrylonitrile  
Concen: 10.628 ug/l  
RT: 4.53 min Scan# 1070  
Delta R.T. 0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU072219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 67      | 82.4  | 64.4  | 96.6  |
| 39      | 54.4  | 46.8  | 70.2  |
| 52      | 31.7  | 28.6  | 42.8  |

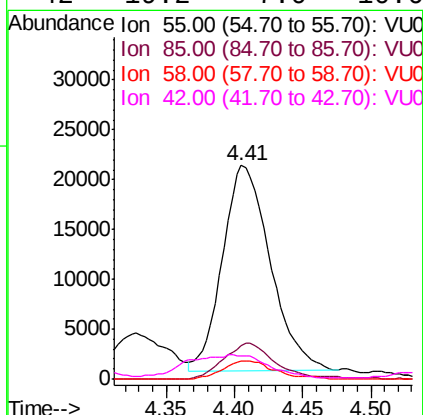
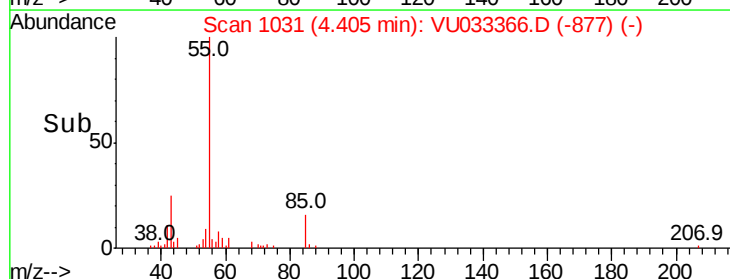
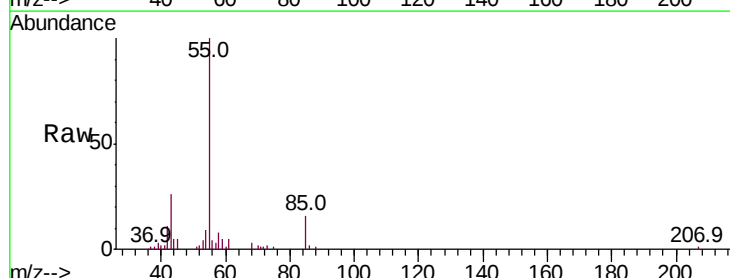
Manual Integrations  
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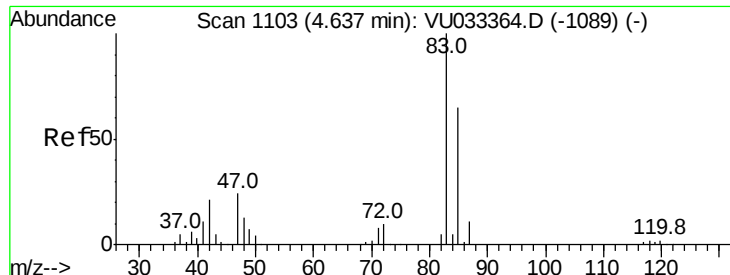
MMDadoda  
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#40  
Methyl acrylate  
Concen: 10.636 ug/l  
RT: 4.41 min Scan# 1031  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 55      | 100   |       |       |
| 85      | 18.2  | 14.8  | 22.2  |
| 58      | 9.0   | 7.1   | 10.7  |
| 42      | 19.2  | 7.0   | 10.6# |





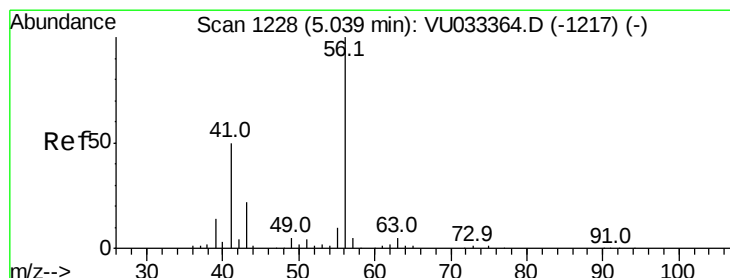
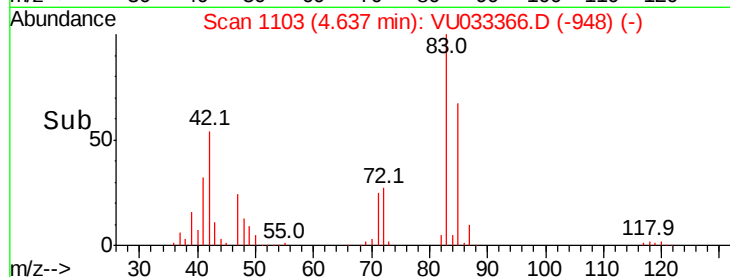
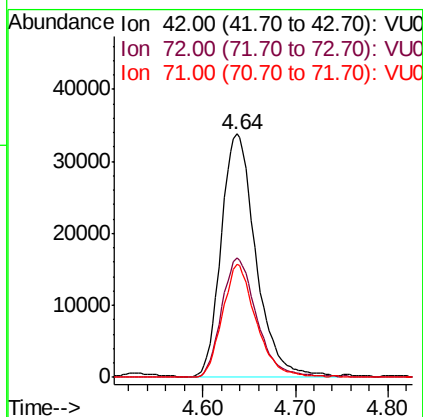
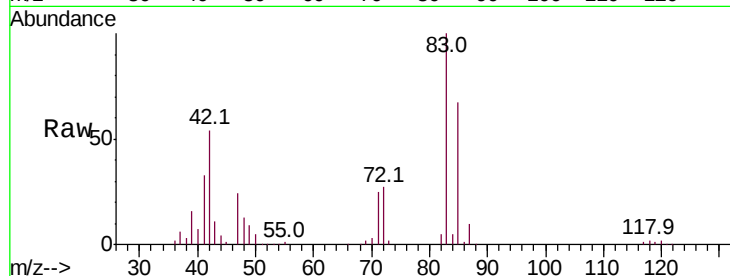
#41  
Tetrahydrofuran  
Concen: 58.312 ug/l  
RT: 4.64 min Scan# 1103  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU072219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 49.0  | 38.7  | 58.1  |
| 71      | 44.8  | 34.6  | 52.0  |

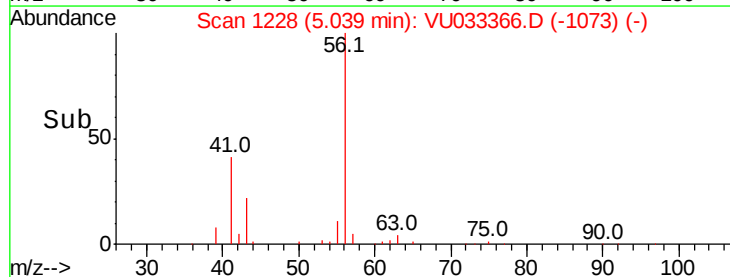
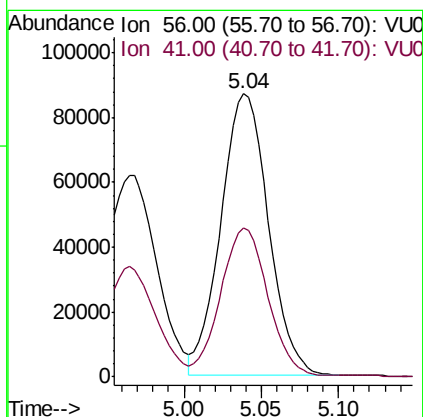
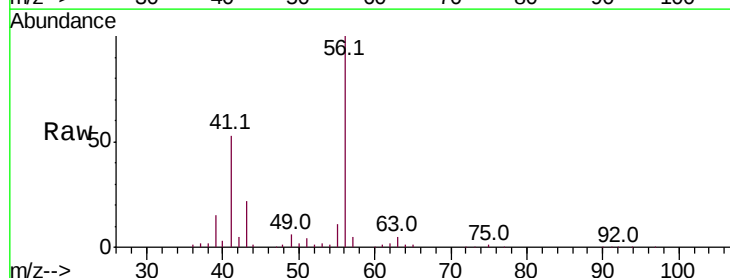
Manual Integrations  
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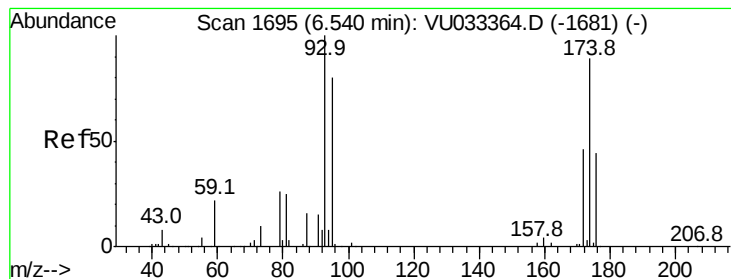
MMDadoda  
7/23/2019 8:55:19 AM



#42  
1-Chlorobutane  
Concen: 10.177 ug/l  
RT: 5.04 min Scan# 1228  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 41      | 52.3  | 25.7  | 77.1  |





#43

Dibromomethane

Concen: 9.887 ug/l

RT: 6.54 min Scan# 1695

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

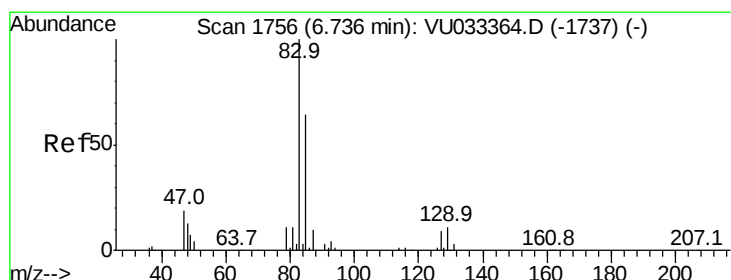
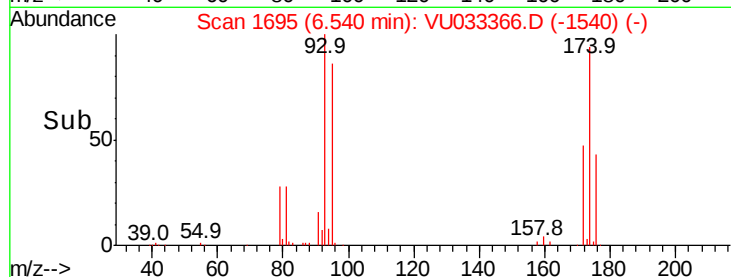
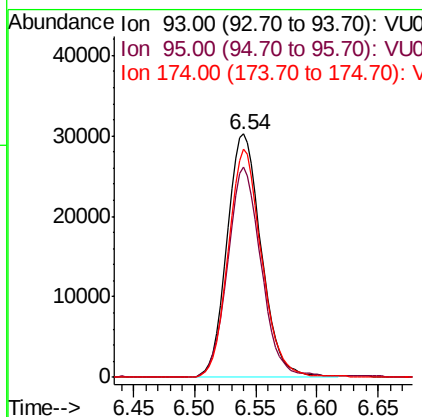
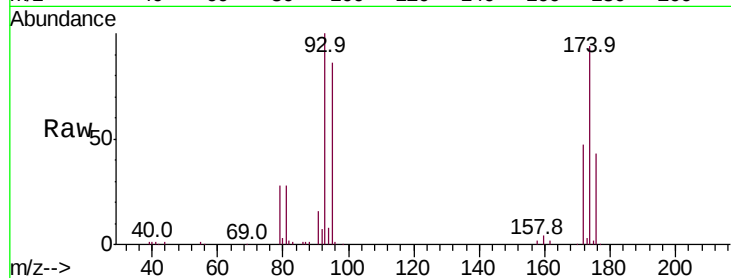
ClientSampleId :

ICVVU072219

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 93    | Resp: | 59227 |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 95       | 84.8  | 65.3  | 97.9  |
| 174      | 91.2  | 70.7  | 106.1 |

Manual Integrations  
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MMDadoda  
7/23/2019 8:55:19 AM



#44

Bromodichloromethane

Concen: 10.060 ug/l

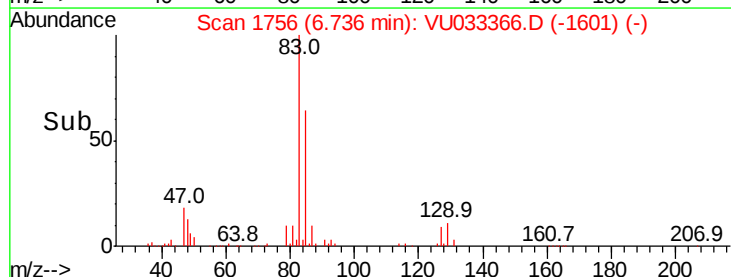
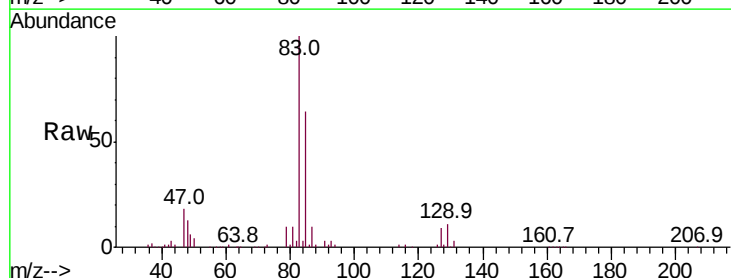
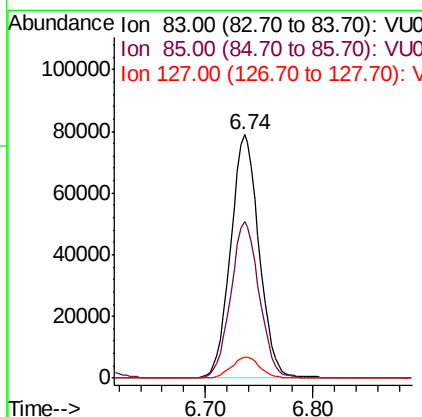
RT: 6.74 min Scan# 1756

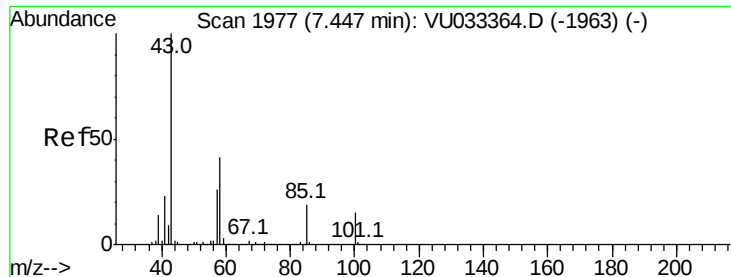
Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 145297 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 85       | 64.3  | 51.1  | 76.7   |
| 127      | 8.6   | 7.2   | 10.8   |





#45

4-Methyl-2-Pentanone

Concen: 54.626 ug/l

RT: 7.45 min Scan# 1977

Delta R.T. -0.00 min

Lab File: VU033366.D

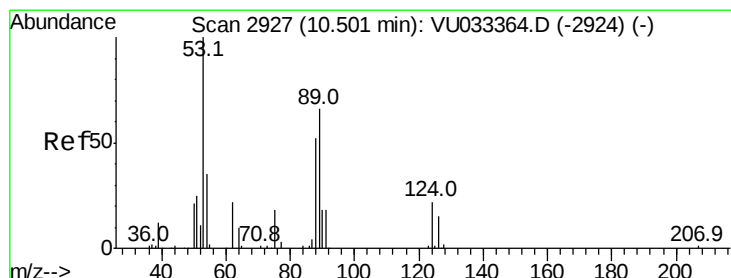
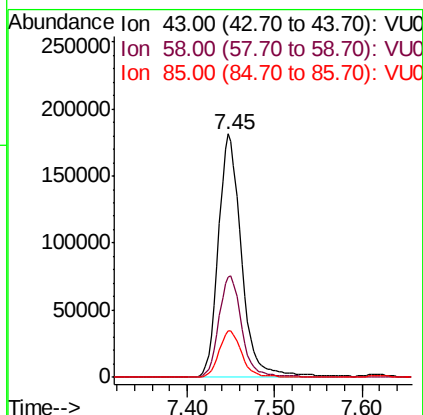
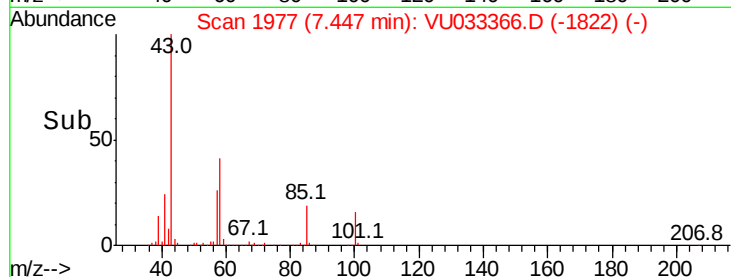
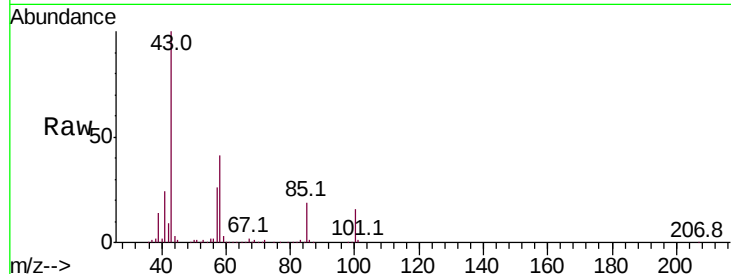
Acq: 22 Jul 2019 21:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU072219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 41.6  | 20.3  | 60.8  |
| 85      | 19.0  | 15.0  | 22.6  |

Manual Integrations  
APPROVED

MMDadoda  
7/23/2019 8:55:19 AM



#46

t-1,4-Dichloro-2-butene

Concen: 11.023 ug/l m

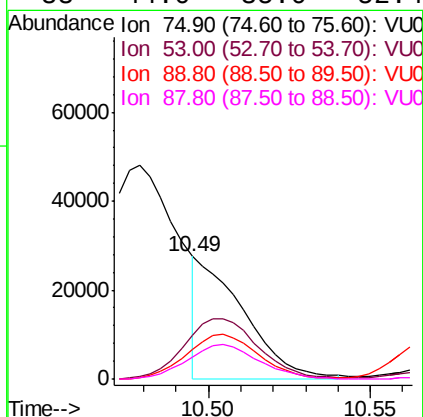
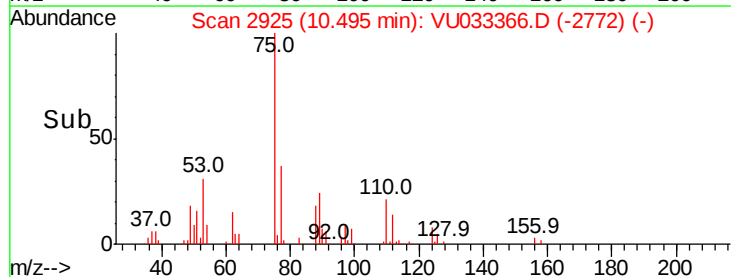
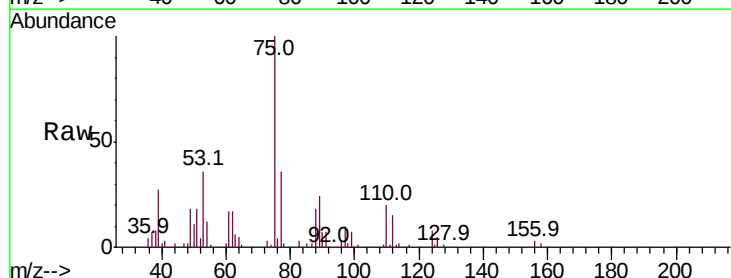
RT: 10.49 min Scan# 2925

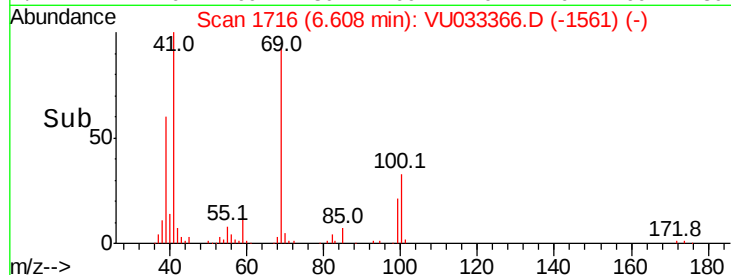
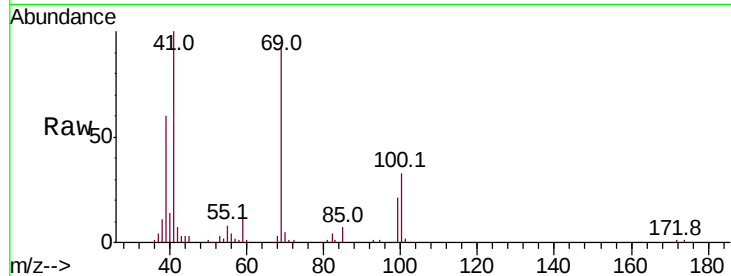
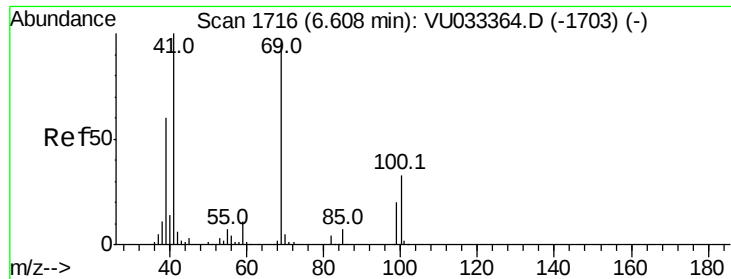
Delta R.T. -0.01 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 53      | 80.5  | 62.9  | 94.3  |
| 89      | 57.3  | 43.0  | 64.4  |
| 88      | 44.0  | 35.0  | 52.4  |





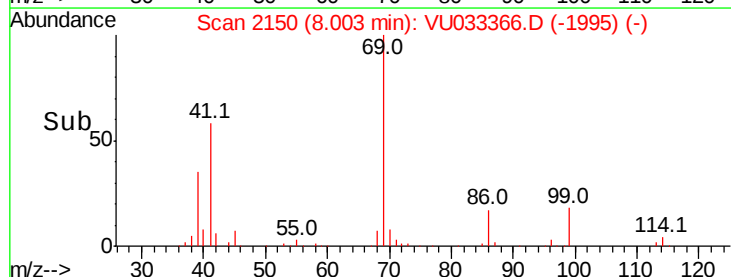
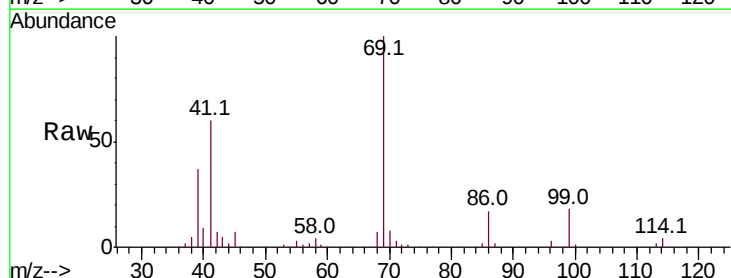
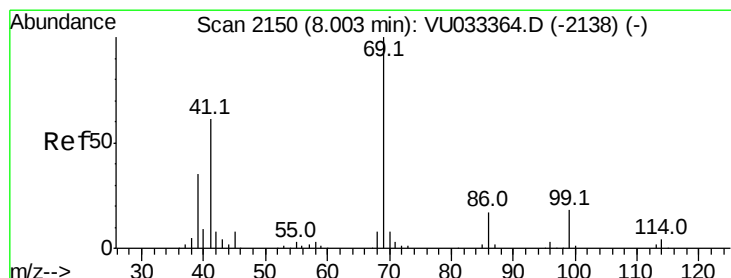
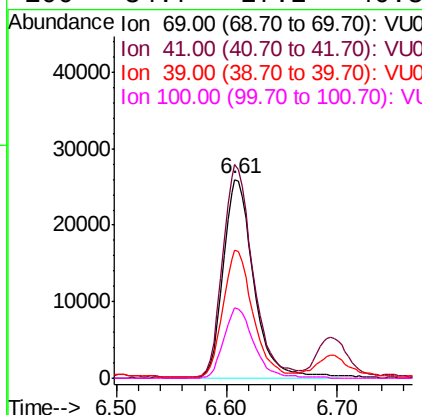
#47  
Methyl methacrylate  
Concen: 10.959 ug/l  
RT: 6.61 min Scan# 1716  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 69      | 100   |       |       |       |
| 41      | 104.8 | 0.0   | 208.2 |       |
| 39      | 61.8  | 50.6  | 75.8  |       |
| 100     | 34.7  | 27.2  | 40.8  |       |

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU072219

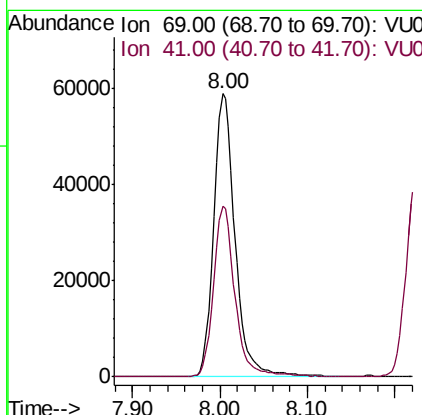
Manual Integrations  
APPROVED

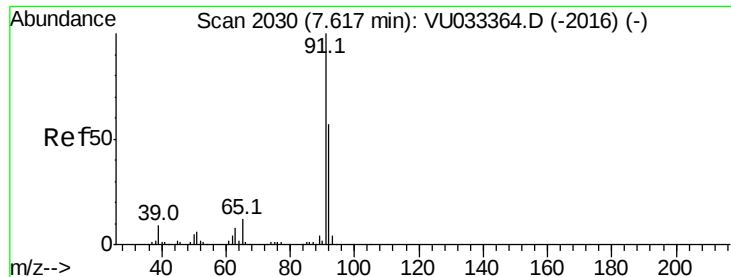
MMDadoda  
7/23/2019 8:55:19 AM



#48  
Ethyl methacrylate  
Concen: 12.434 ug/l  
RT: 8.00 min Scan# 2150  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 69      | 100  |       |       |       |
| 41      | 60.8 | 30.9  | 92.7  |       |





#49

Toluene

Concen: 11.268 ug/l

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU072219

Tot Ion: 92 Resp: 253144

Ion Ratio Lower Upper

92 100

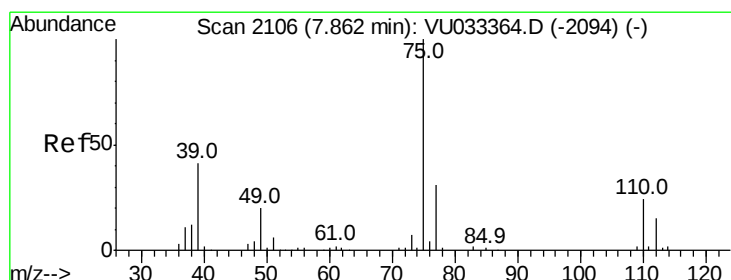
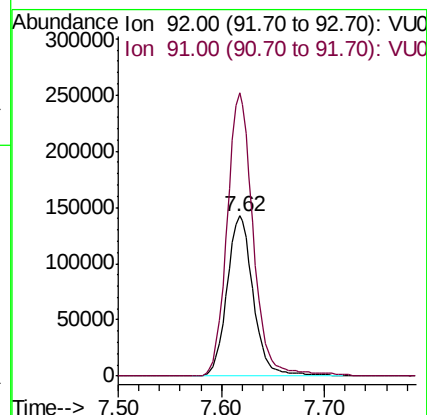
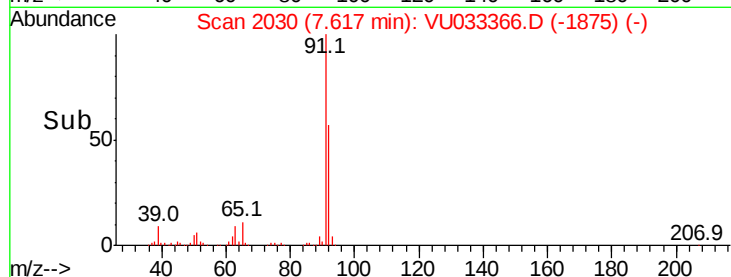
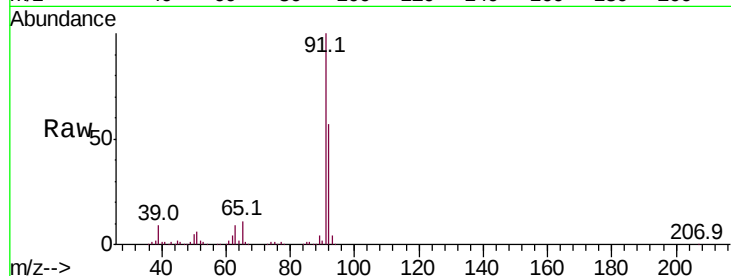
91 176.3 142.1 213.1

Manual Integrations

APPROVED

MMDadoda

7/23/2019 8:55:19 AM



#50

t-1,3-Dichloropropene

Concen: 11.227 ug/l

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033366.D

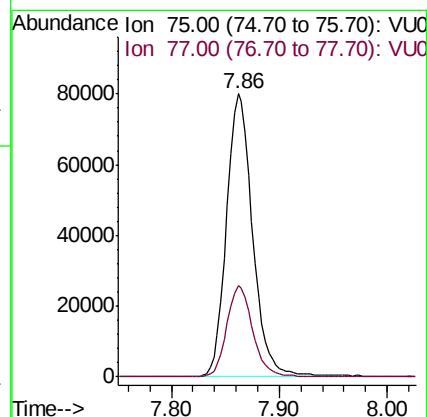
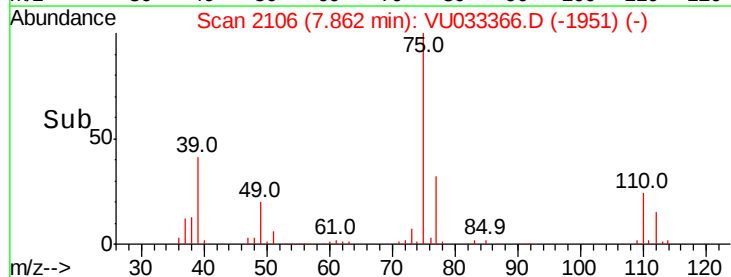
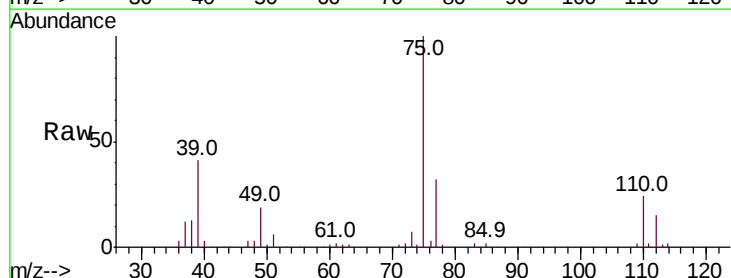
Acq: 22 Jul 2019 21:52

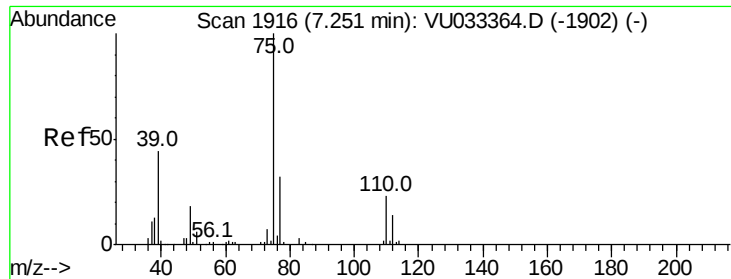
Tgt Ion: 75 Resp: 135252

Ion Ratio Lower Upper

75 100

77 32.1 25.2 37.8





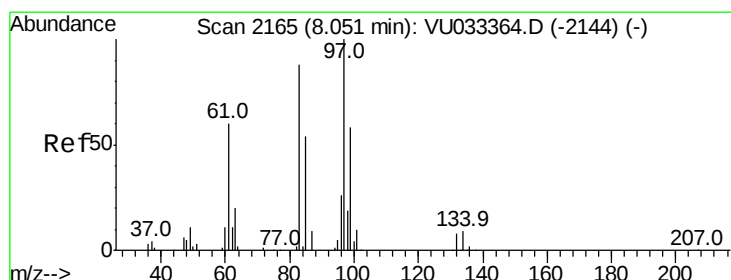
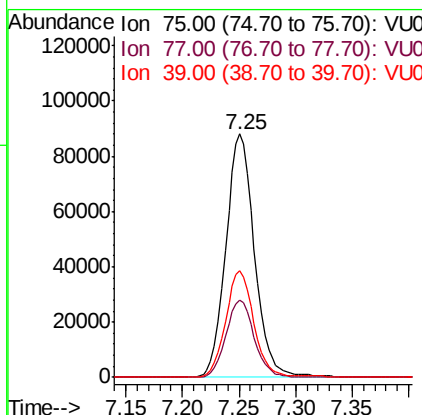
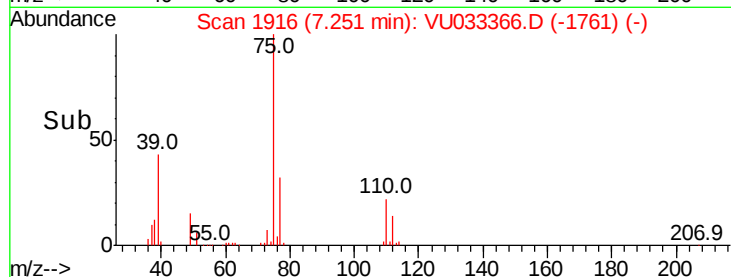
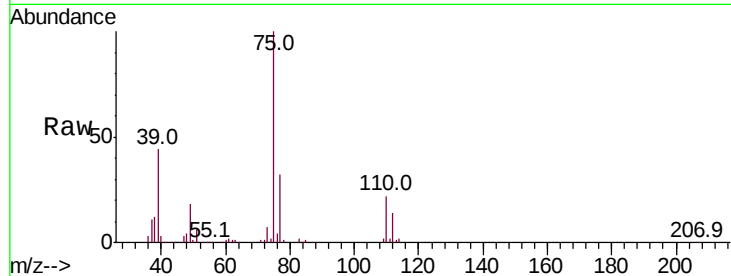
#51  
 cis-1,3-Dichloropropene  
 Concen: 10.873 ug/l  
 RT: 7.25 min Scan# 1916  
 Delta R.T. -0.00 min  
 Lab File: VU033366.D  
 Acq: 22 Jul 2019 21:52

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU072219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 31.7  | 25.8  | 38.8  |
| 39      | 43.5  | 35.2  | 52.8  |

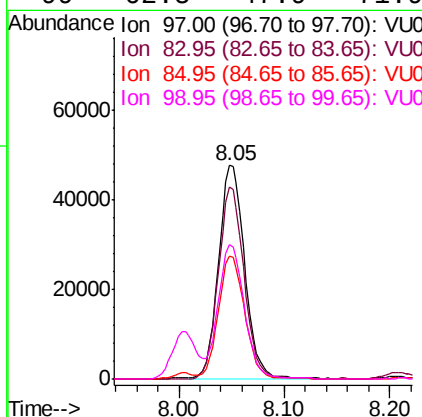
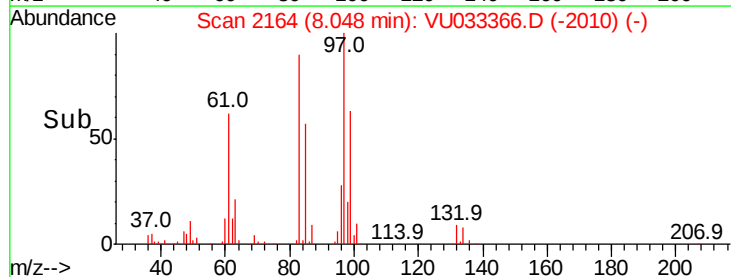
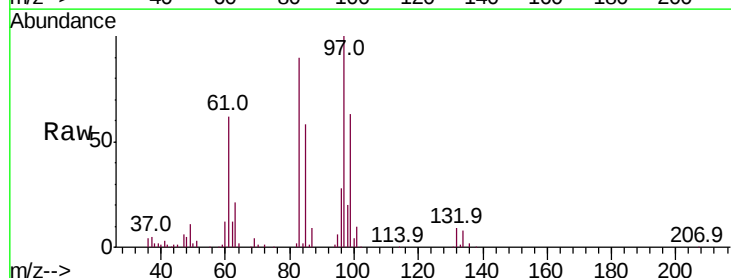
Manual Integrations  
 APPROVED

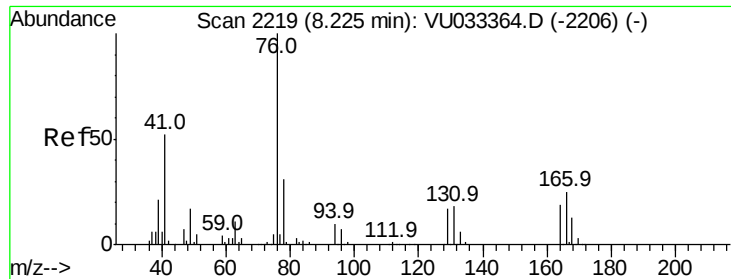
MMDadoda  
 7/23/2019 8:55:19 AM



#52  
 1,1,2-Trichloroethane  
 Concen: 10.225 ug/l  
 RT: 8.05 min Scan# 2164  
 Delta R.T. -0.00 min  
 Lab File: VU033366.D  
 Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 90.2  | 70.2  | 105.2 |
| 85      | 57.7  | 43.5  | 65.3  |
| 99      | 62.5  | 47.9  | 71.9  |





#53

1,3-Dichloropropane

Concen: 10.358 ug/l

RT: 8.22 min Scan# 2219

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU072219

Tot Ion: 76 Resp: 140116

Ion Ratio Lower Upper

76 100

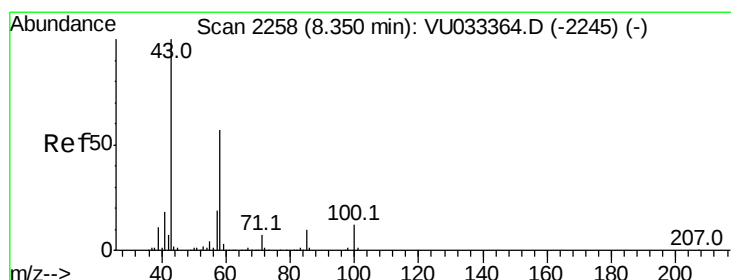
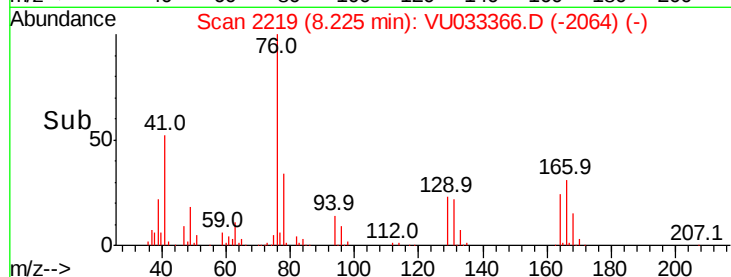
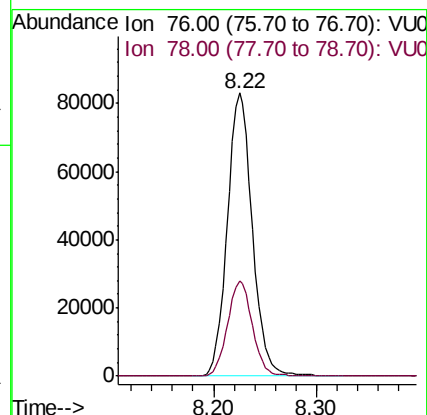
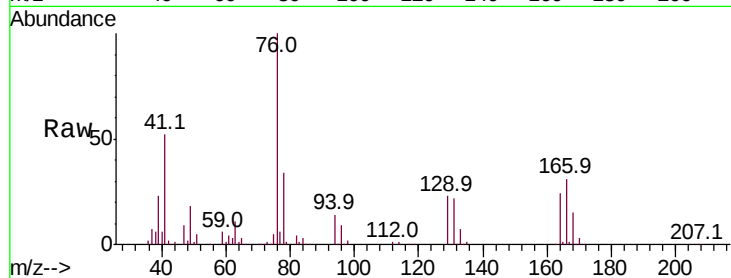
78 33.4 25.7 38.5

Manual Integrations

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MMDadoda

7/23/2019 8:55:19 AM



#54

2-Hexanone

Concen: 55.714 ug/l

RT: 8.35 min Scan# 2258

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

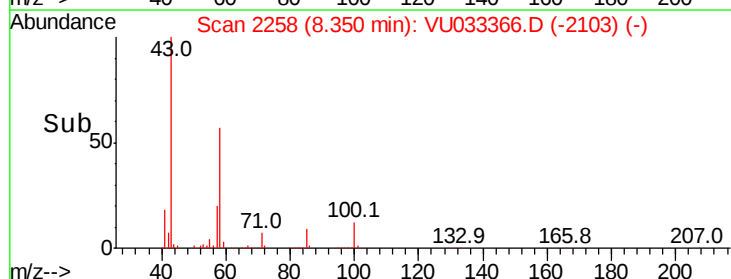
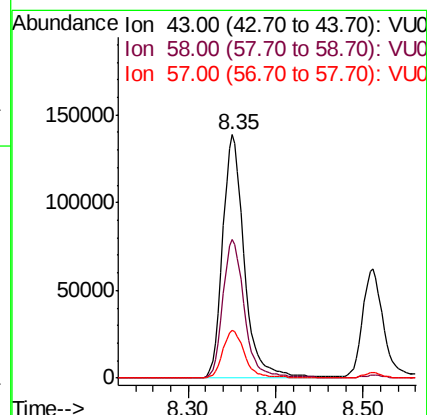
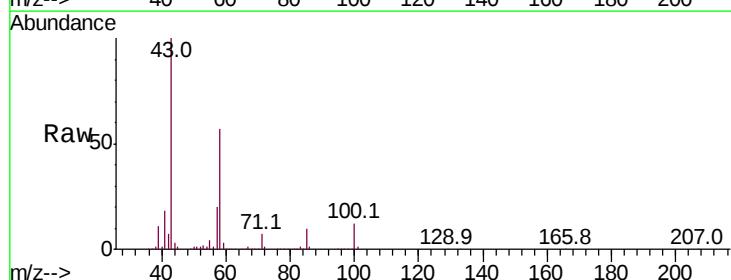
Tgt Ion: 43 Resp: 239602

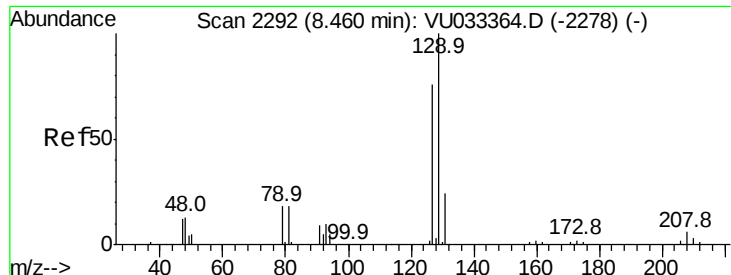
Ion Ratio Lower Upper

43 100

58 56.9 36.0 76.0

57 19.9 0.0 39.4





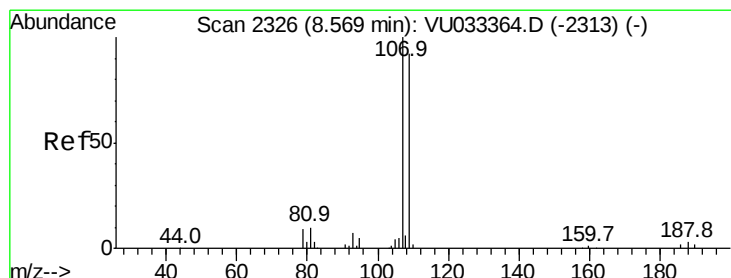
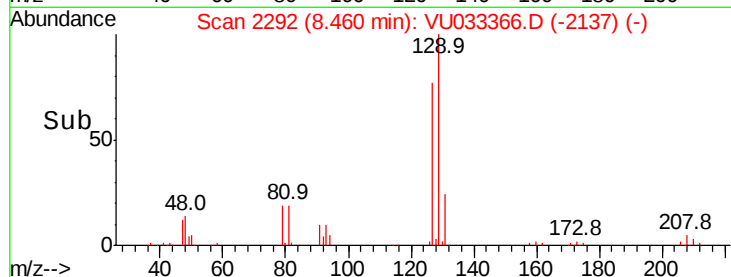
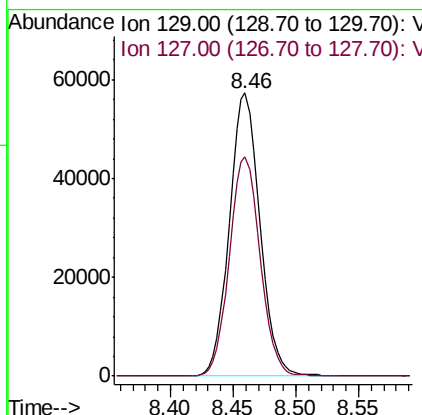
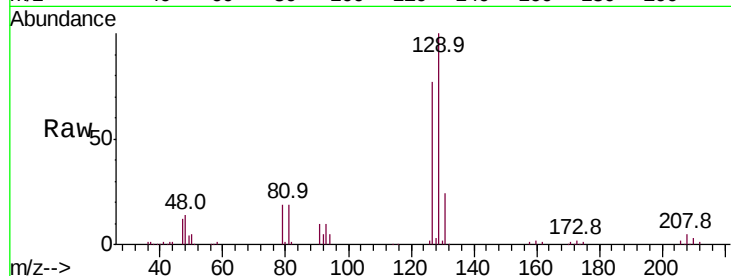
#55  
Dibromochloromethane  
Concen: 10.400 ug/l  
RT: 8.46 min Scan# 2292  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU072219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 77.7  | 60.9  | 91.3  |

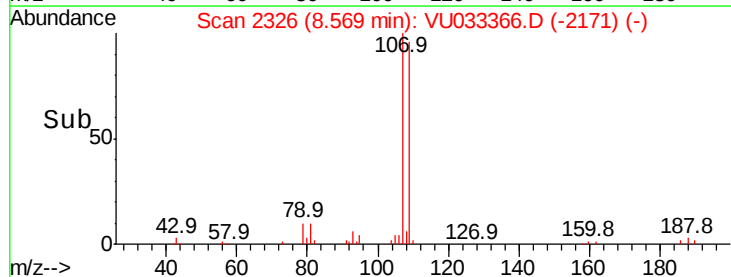
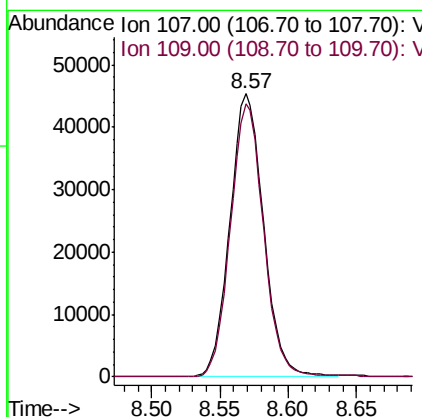
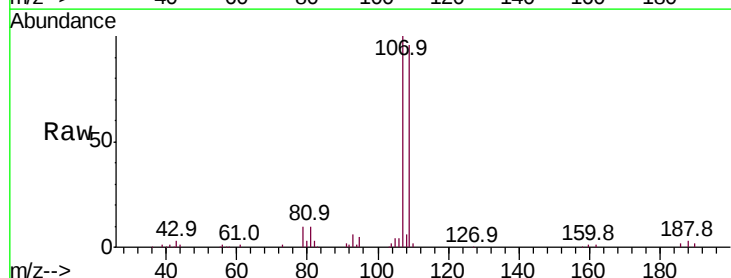
Manual Integrations  
APPROVED

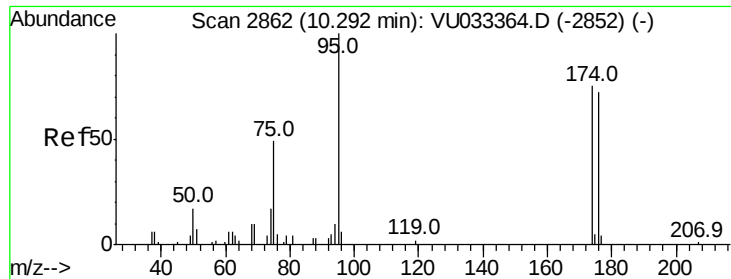
MMDadoda  
7/23/2019 8:55:19 AM



#56  
1,2-Dibromoethane  
Concen: 10.420 ug/l  
RT: 8.57 min Scan# 2326  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 95.5  | 0.0   | 184.8 |





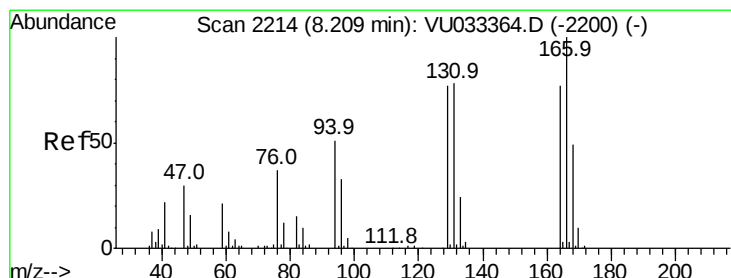
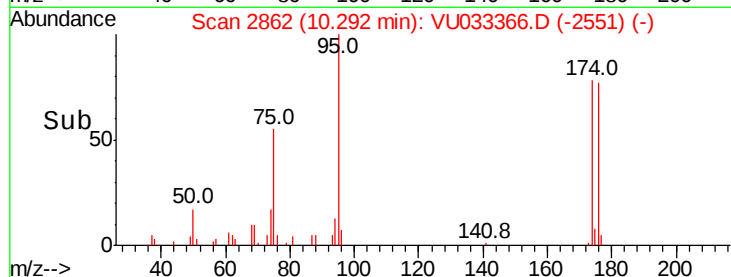
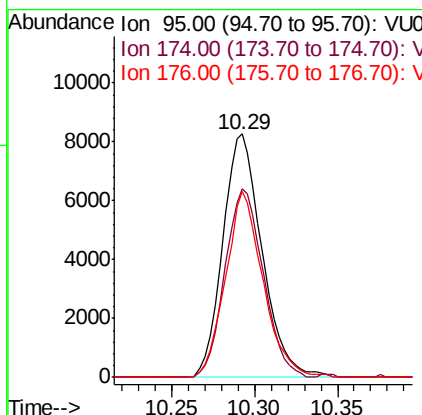
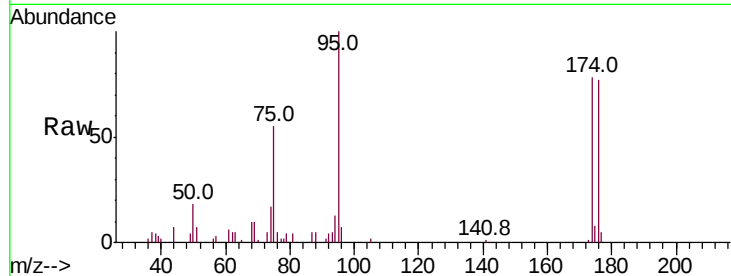
#57  
4-Bromofluorobenzene  
Concen: 1.055 ug/l  
RT: 10.29 min Scan# 2862  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Instrument :  
MSVOA\_U  
ClientSampled :  
ICVVU072219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 75.6  | 58.8  | 88.2  |
| 176     | 73.3  | 54.4  | 81.6  |

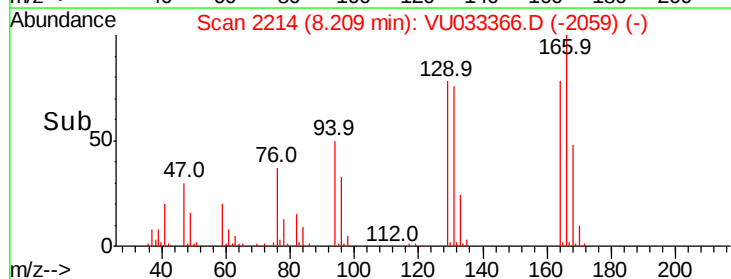
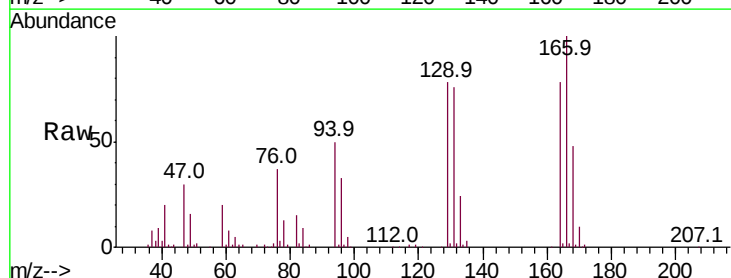
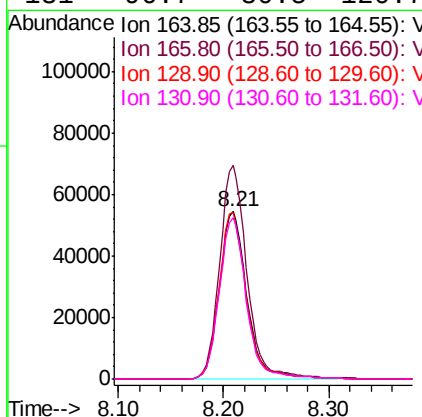
Manual Integrations  
APPROVED

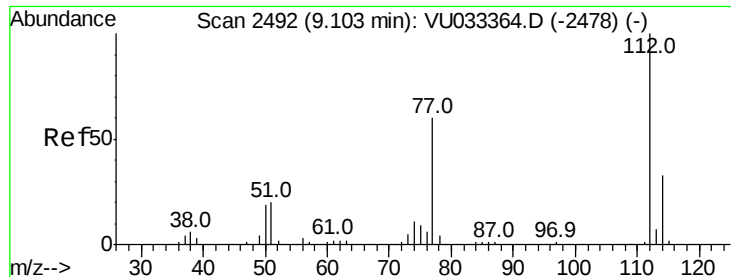
MMDadoda  
7/23/2019 8:55:19 AM



#58  
Tetrachloroethene  
Concen: 10.490 ug/l  
RT: 8.21 min Scan# 2214  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 127.5 | 103.8 | 155.6 |
| 129     | 99.1  | 79.7  | 119.5 |
| 131     | 96.7  | 80.5  | 120.7 |





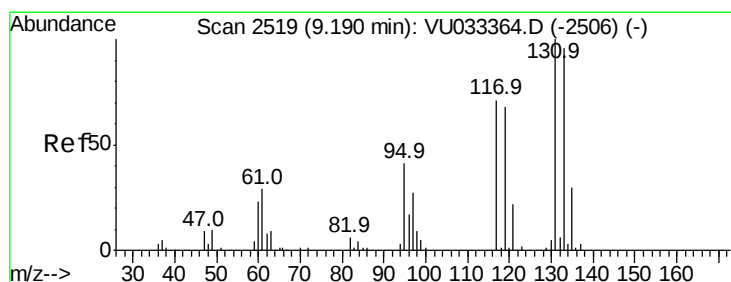
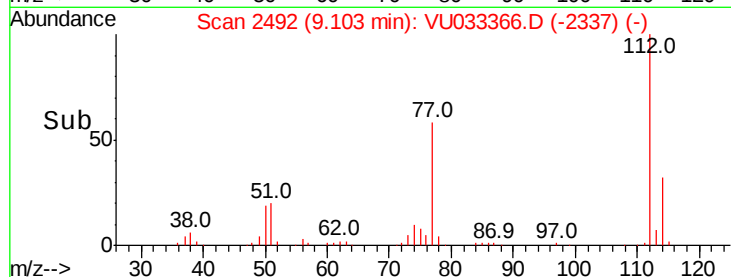
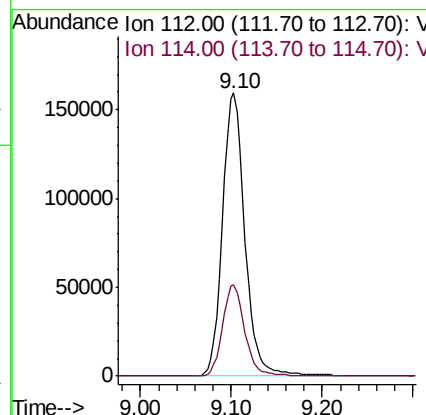
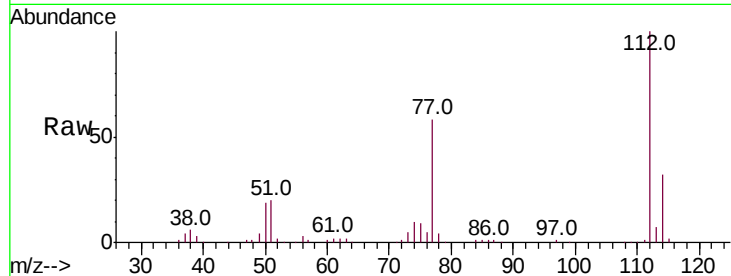
#59  
Chlorobenzene  
Concen: 10.598 ug/l  
RT: 9.10 min Scan# 2492  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU072219

Tot Ion:112 Resp: 272966  
Ion Ratio Lower Upper  
112 100  
114 32.2 26.4 39.6

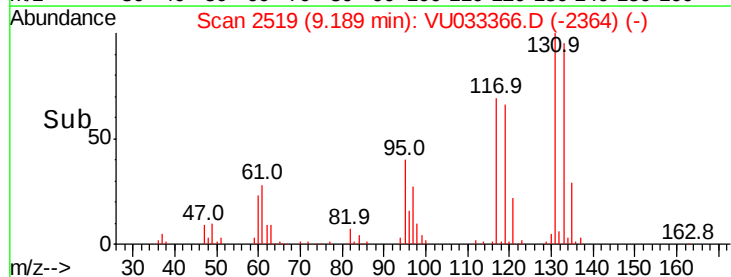
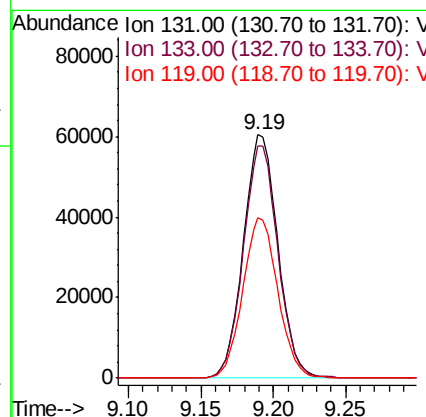
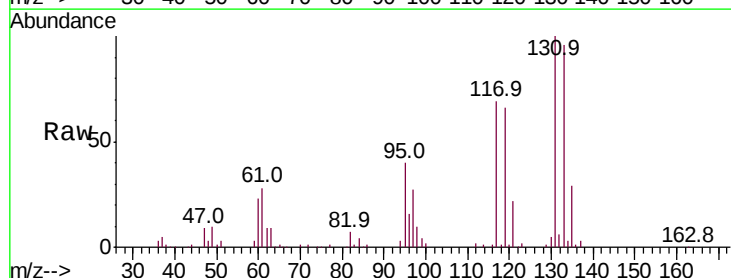
Manual Integrations  
APPROVED

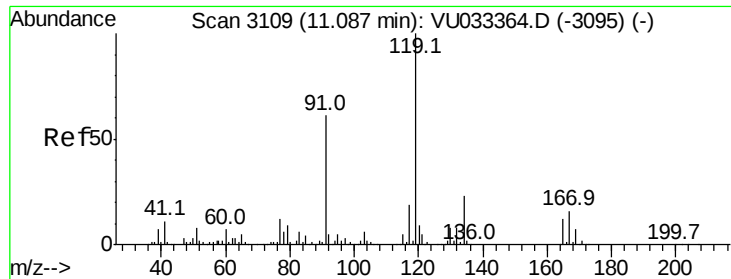
MMDadoda  
7/23/2019 8:55:19 AM



#60  
1,1,1,2-Tetrachloroethane  
Concen: 10.253 ug/l  
RT: 9.19 min Scan# 2519  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Tgt Ion:131 Resp: 100278  
Ion Ratio Lower Upper  
131 100  
133 95.9 76.2 114.4  
119 66.8 54.9 82.3





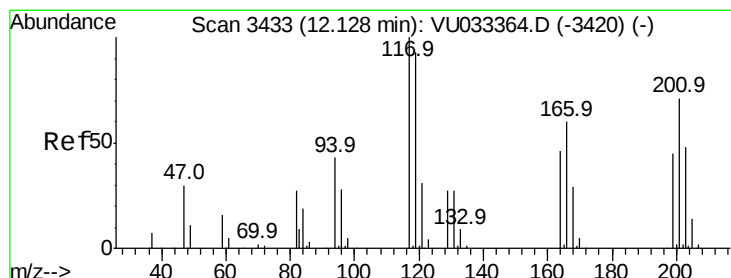
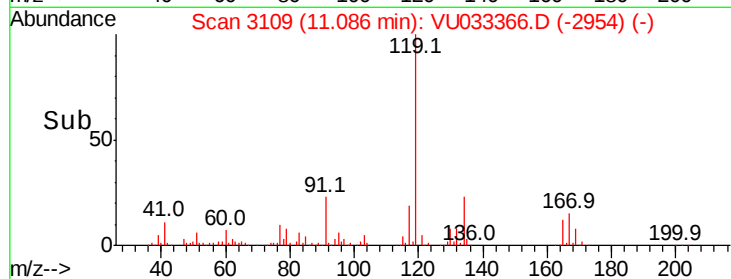
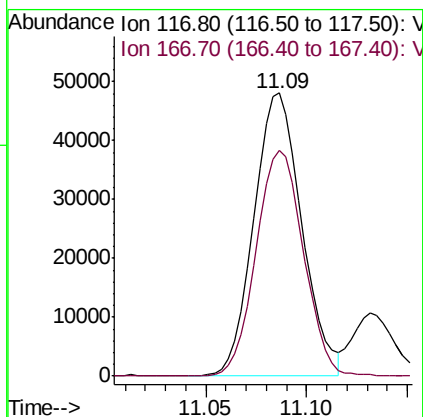
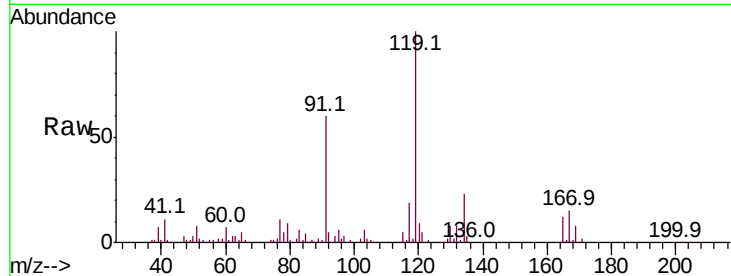
#61  
Pentachloroethane  
Concen: 9.922 ug/l  
RT: 11.09 min Scan# 3109  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Instrument :  
MSVOA\_U  
ClientSampled :  
ICVVU072219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 167     | 78.8  | 63.4  | 95.0  |

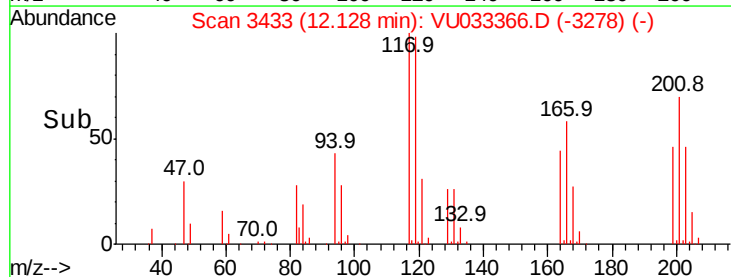
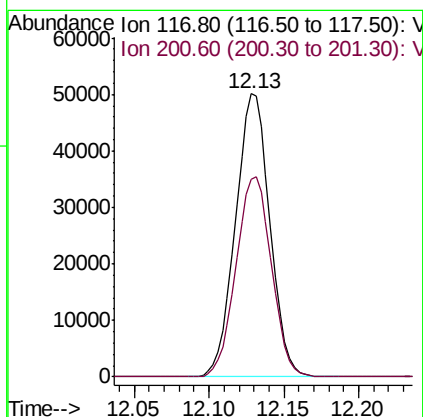
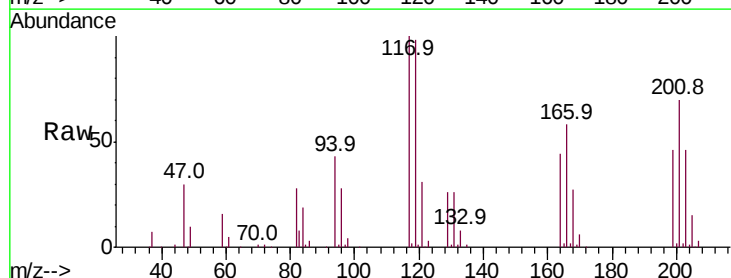
Manual Integrations  
APPROVED

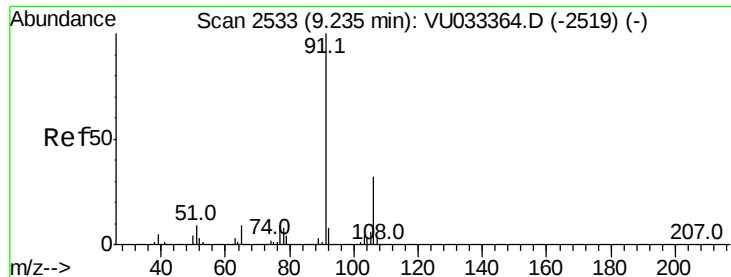
MMDadoda  
7/23/2019 8:55:19 AM



#62  
Hexachloroethane  
Concen: 10.328 ug/l  
RT: 12.13 min Scan# 3433  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 201     | 72.9  | 57.9  | 86.9  |





#63

Ethyl Benzene

Concen: 11.788 ug/l

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU072219

Tot Ion: 91 Resp: 487504

Ion Ratio Lower Upper

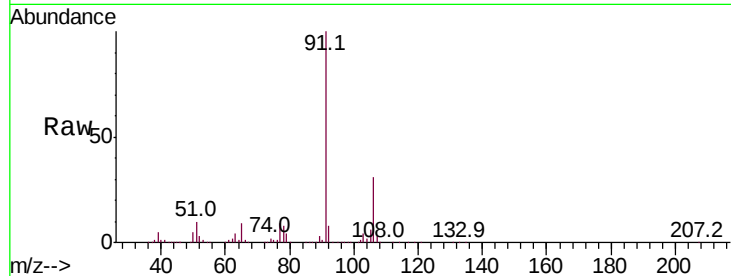
91 100

106 30.9 25.4 38.2

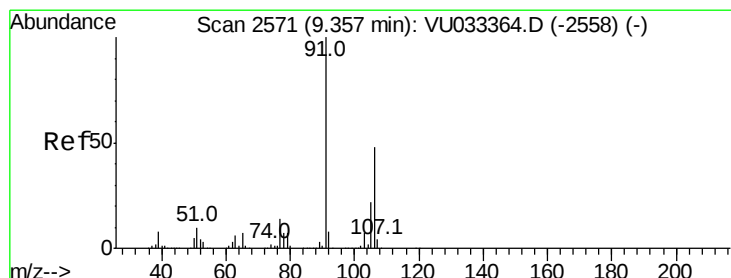
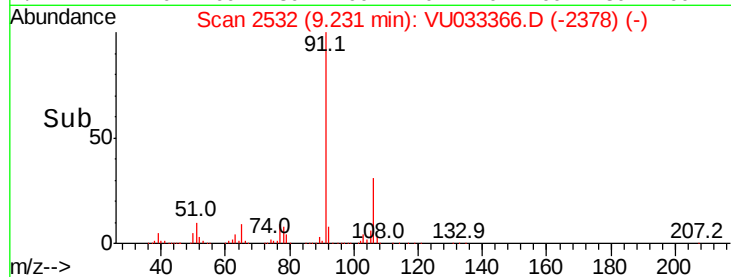
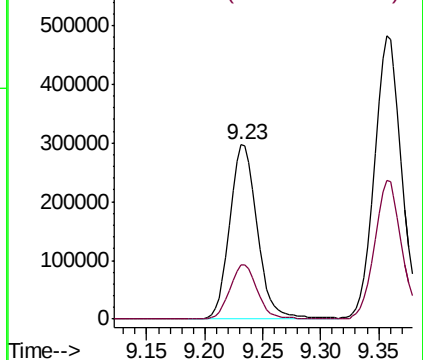
Manual Integrations  
APPROVED

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7/23/2019 8:55:19 AM



Abundance Ion 91.00 (90.70 to 91.70): VU033366.D (-2519) (-)



#64

m/p-Xylenes

Concen: 23.536 ug/l

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033366.D

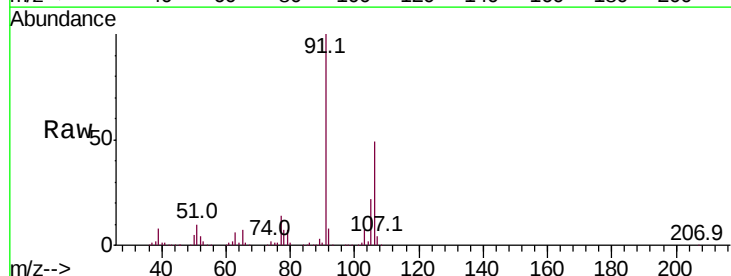
Acq: 22 Jul 2019 21:52

Tgt Ion: 106 Resp: 389169

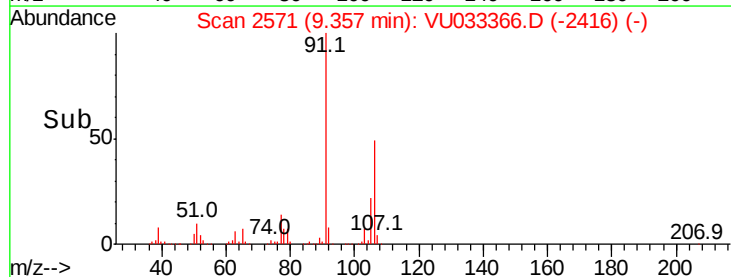
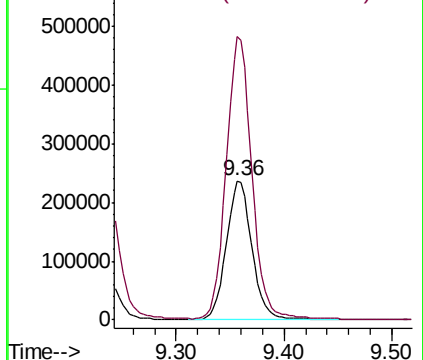
Ion Ratio Lower Upper

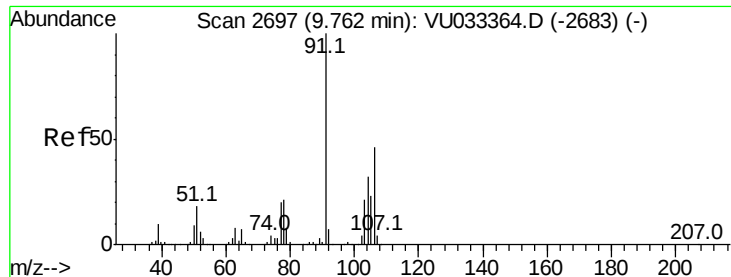
106 100

91 205.2 167.1 250.7



Abundance Ion 106.00 (105.70 to 106.70): VU033366.D (-2558) (-)





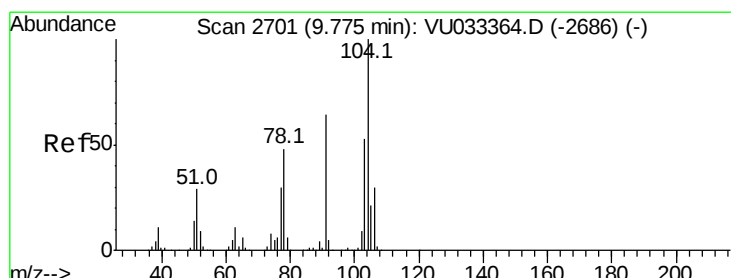
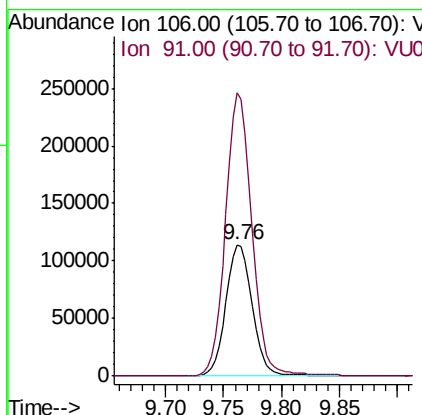
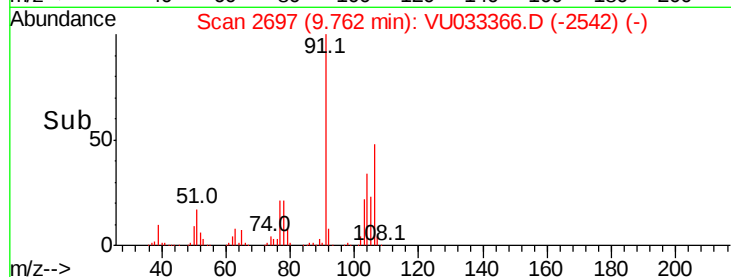
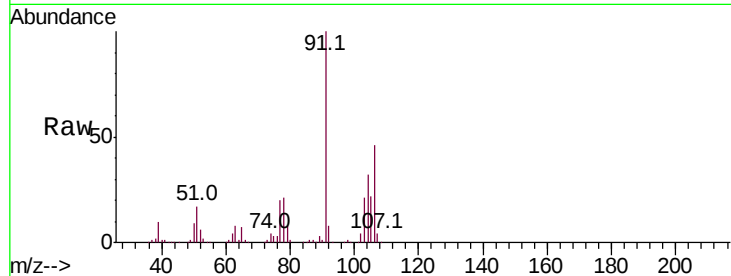
#65  
o-Xylene  
Concen: 11.404 ug/l  
RT: 9.76 min Scan# 2697  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU072219

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 106     | 100   | 180699 |       |       |
| 91      | 215.1 |        | 108.5 | 325.3 |

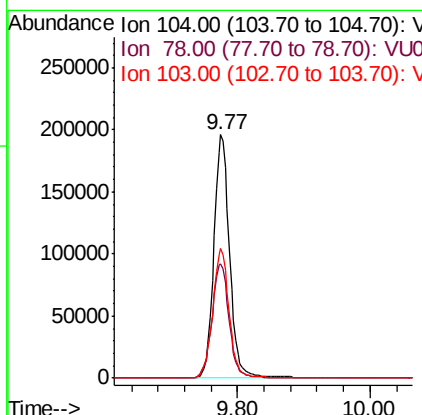
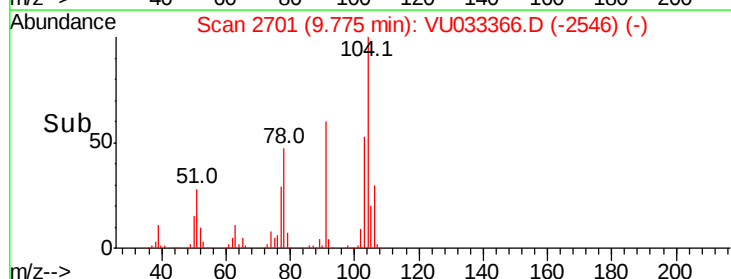
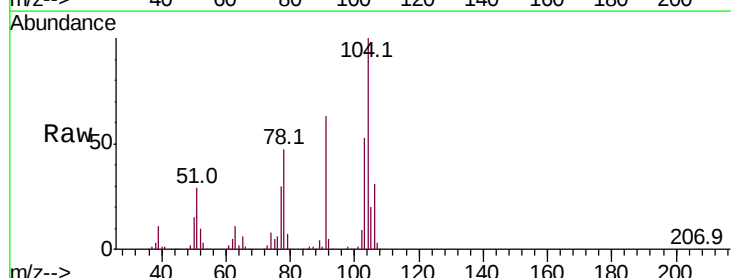
Manual Integrations  
APPROVED

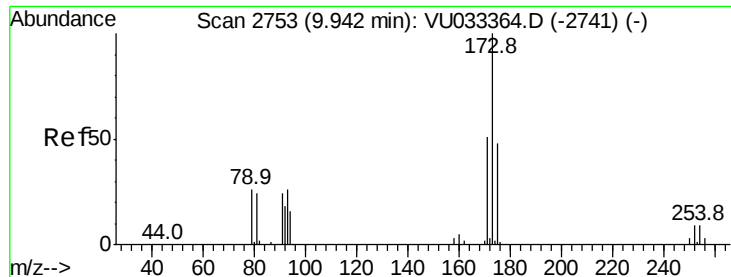
MMDadoda  
7/23/2019 8:55:19 AM



#66  
Styrene  
Concen: 12.009 ug/l  
RT: 9.77 min Scan# 2701  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 104     | 100   | 322773 |       |       |
| 78      | 51.0  |        | 41.2  | 61.8  |
| 103     | 55.3  |        | 44.7  | 67.1  |





#67

Bromoform

Concen: 11.149 ug/l

RT: 9.94 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU072219

Tot Ion:173 Resp: 56426

Ion Ratio Lower Upper

173 100

175 47.5 38.6 58.0

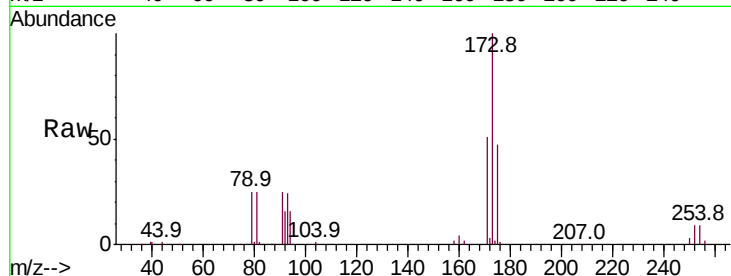
254 8.5 6.8 10.2

Manual Integrations

APPROVED

MMDadoda

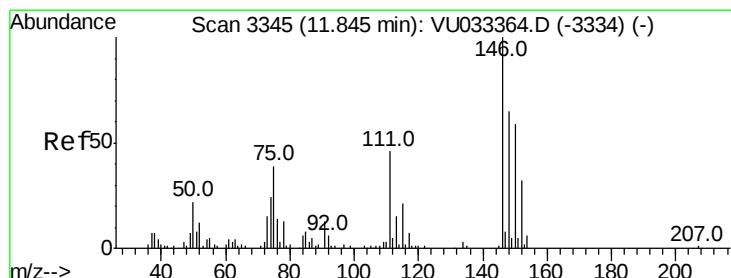
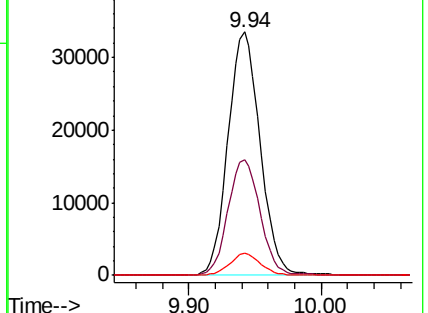
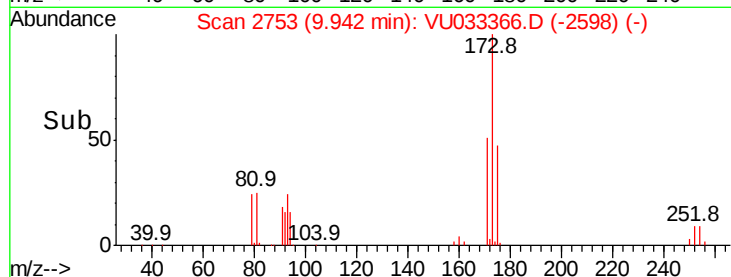
7/23/2019 8:55:19 AM



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 253.75 (253.45 to 254.45): V



#68

1,2-Dichlorobenzene-d4

Concen: 1.047 ug/l

RT: 11.85 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

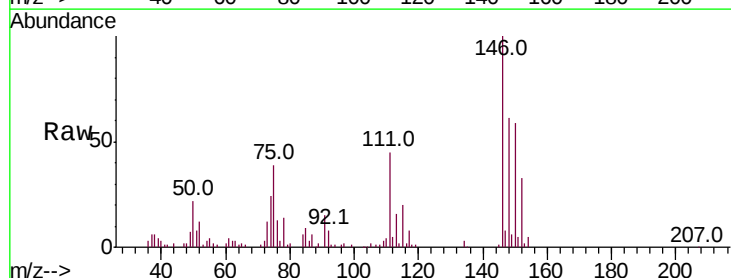
Tgt Ion:152 Resp: 13934

Ion Ratio Lower Upper

152 100

115 55.4 0.0 123.2

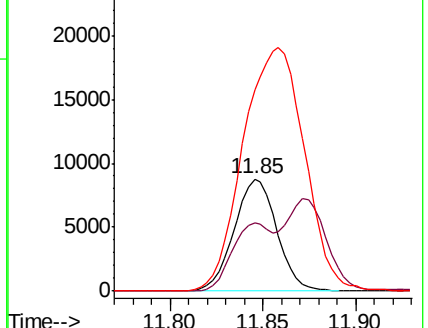
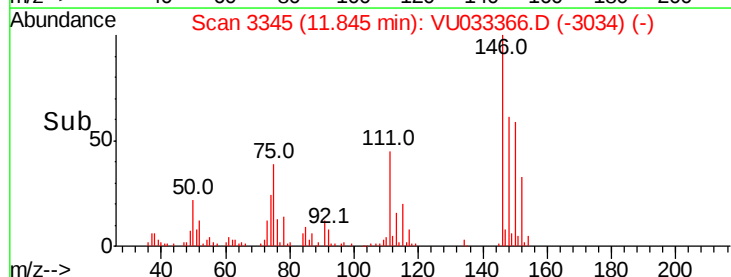
150 0.0 0.0 648.4

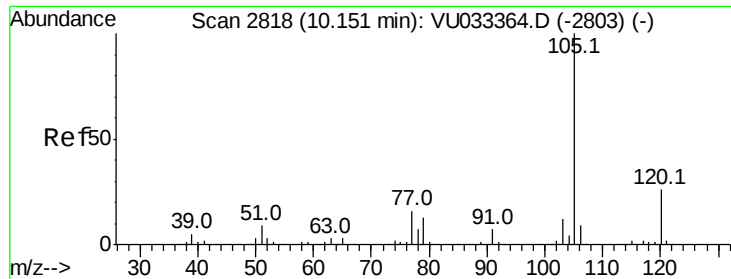


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





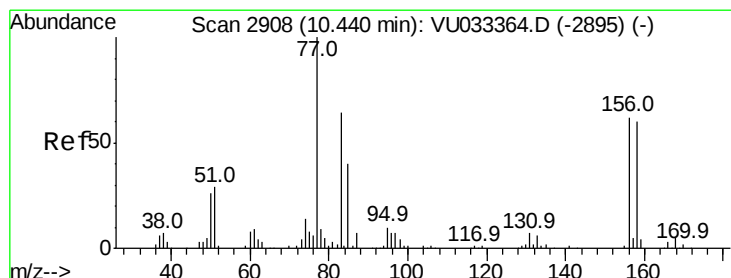
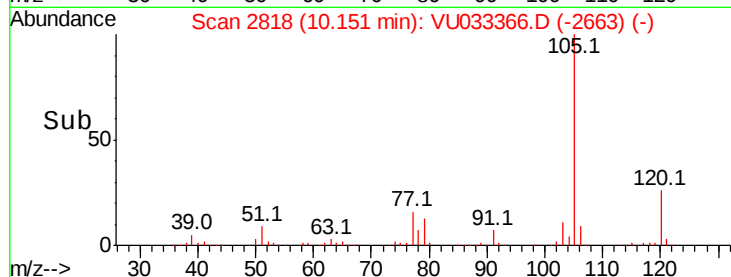
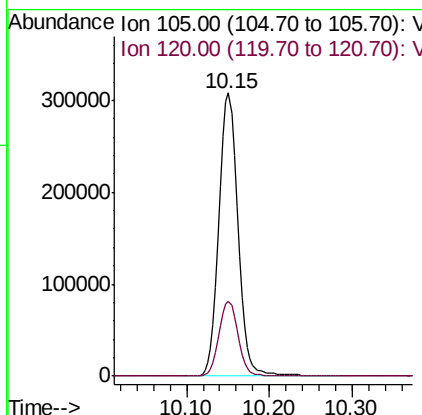
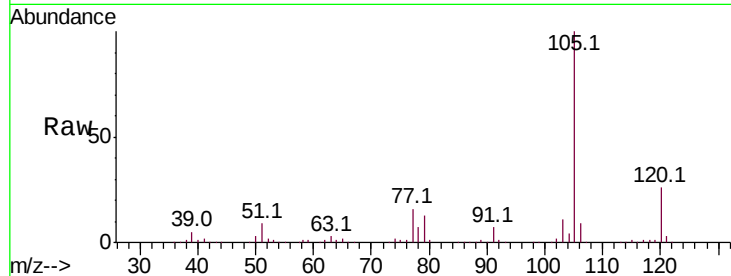
#69  
Isopropylbenzene  
Concen: 12.033 ug/l  
RT: 10.15 min Scan# 2818  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU072219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.4  | 13.4  | 40.1  |

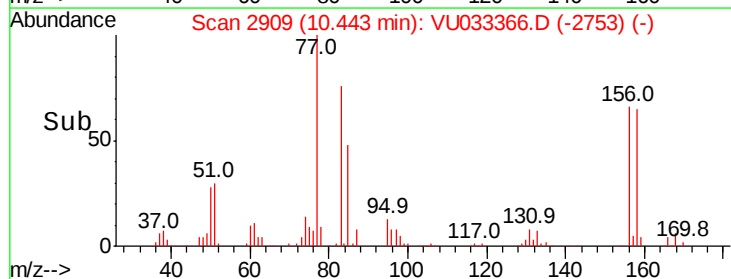
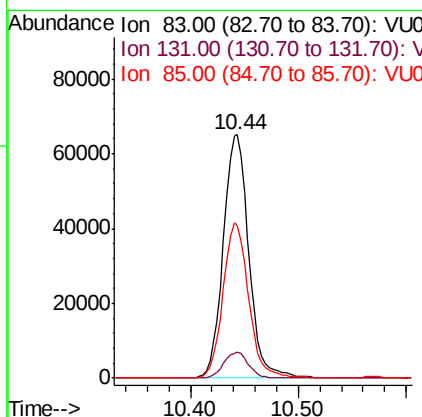
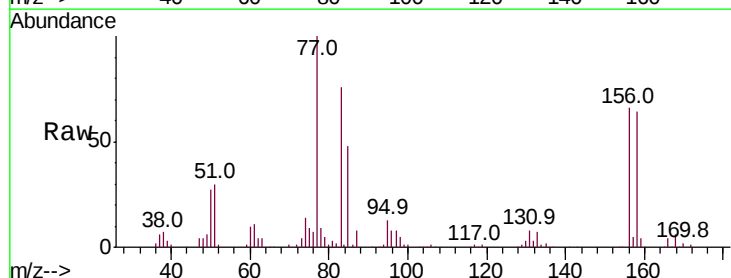
Manual Integrations  
APPROVED

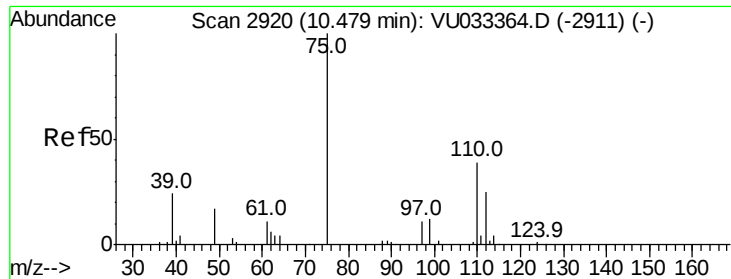
MMDadoda  
7/23/2019 8:55:19 AM



#70  
1,1,2,2-Tetrachloroethane  
Concen: 10.092 ug/l  
RT: 10.44 min Scan# 2909  
Delta R.T. 0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 131     | 10.2  | 8.0   | 12.0  |
| 85      | 64.3  | 51.8  | 77.8  |





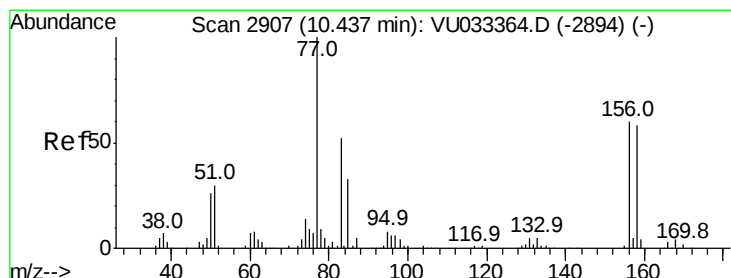
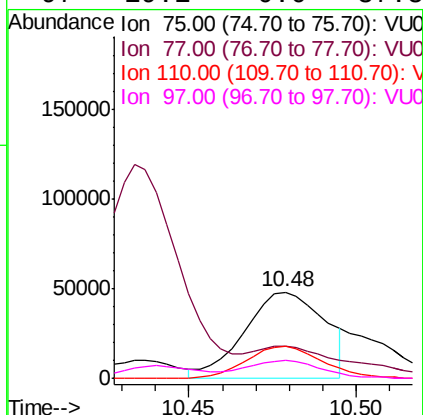
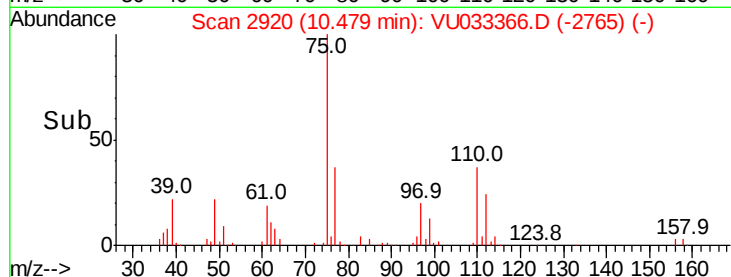
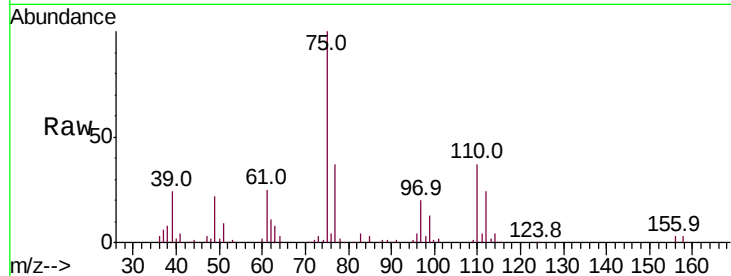
#71  
1,2,3-Trichloropropane  
Concen: 9.757 ug/l m  
RT: 10.48 min Scan# 2920  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU072219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 0.0   | 0.0   | 18.2  |
| 110     | 35.8  | 0.0   | 71.4  |
| 97      | 19.1  | 0.0   | 37.8  |

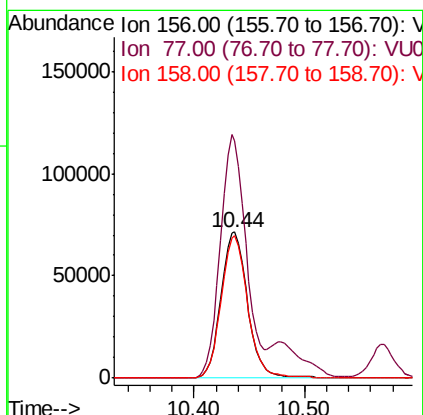
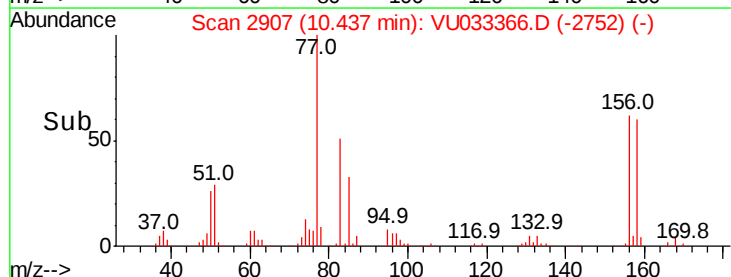
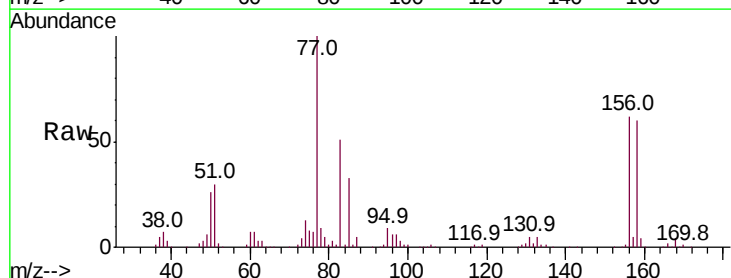
Manual Integrations  
APPROVED

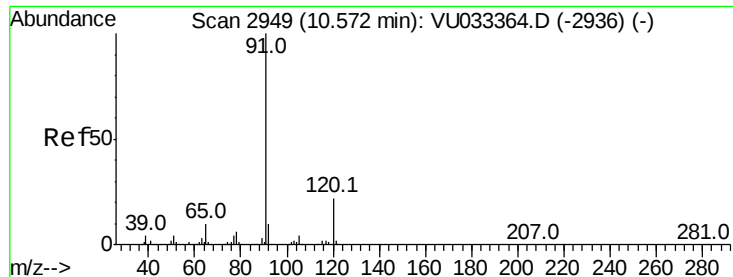
MMDadoda  
7/23/2019 8:55:19 AM



#72  
Bromobenzene  
Concen: 11.141 ug/l  
RT: 10.44 min Scan# 2907  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 156     | 100   |       |       |
| 77      | 159.9 | 0.0   | 324.4 |
| 158     | 97.6  | 0.0   | 192.4 |





#73

n-propylbenzene

Concen: 11.585 ug/l

RT: 10.57 min Scan# 2949

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU072219

Tot Ion:120 Resp: 134168

Ion Ratio Lower Upper

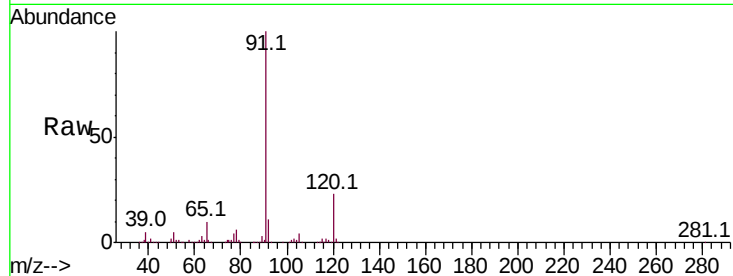
120 100

91 436.5 355.1 532.7

Manual Integrations  
APPROVED

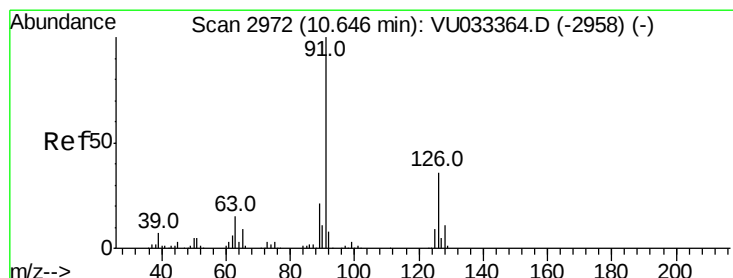
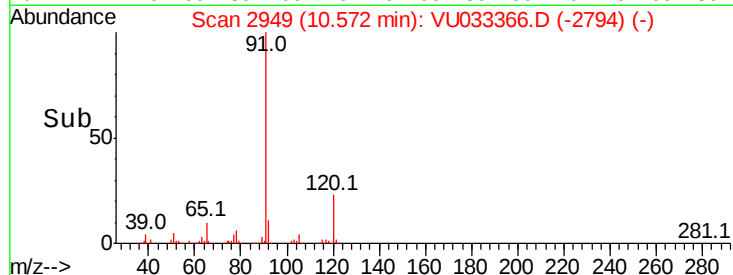
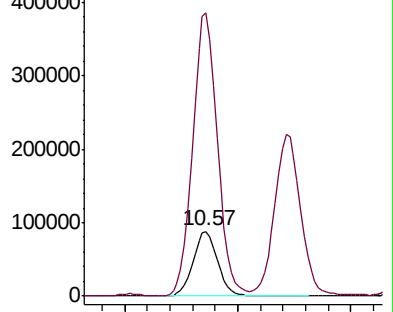
MMDadoda

7/23/2019 8:55:19 AM



Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#74

2-Chlorotoluene

Concen: 11.249 ug/l

RT: 10.65 min Scan# 2972

Delta R.T. -0.00 min

Lab File: VU033366.D

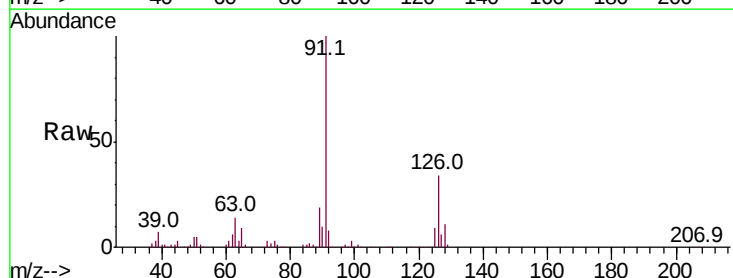
Acq: 22 Jul 2019 21:52

Tgt Ion:126 Resp: 118923

Ion Ratio Lower Upper

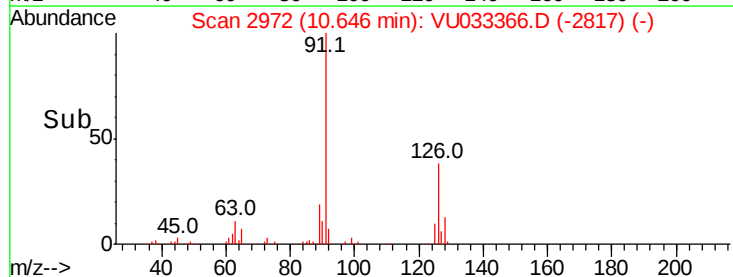
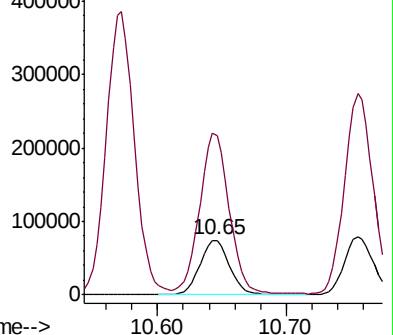
126 100

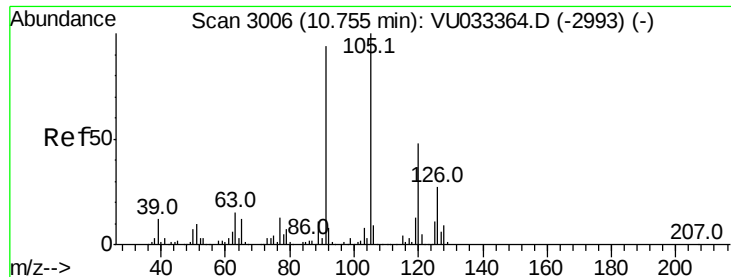
91 298.7 0.0 598.0



Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0





#75

1,3,5-Trimethylbenzene

Concen: 12.103 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU072219

Tot Ion:105 Resp: 441479

Ion Ratio Lower Upper

105 100

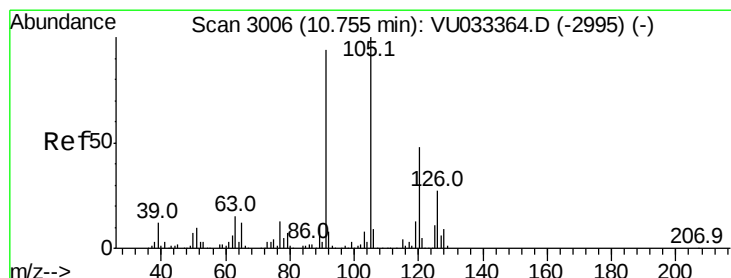
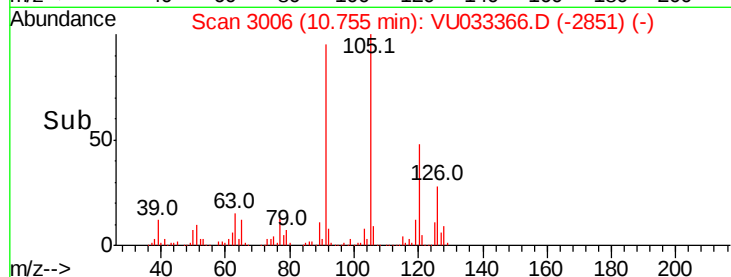
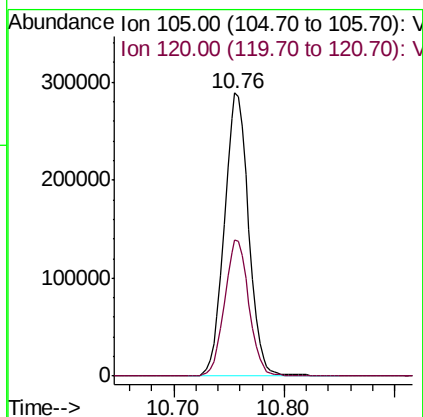
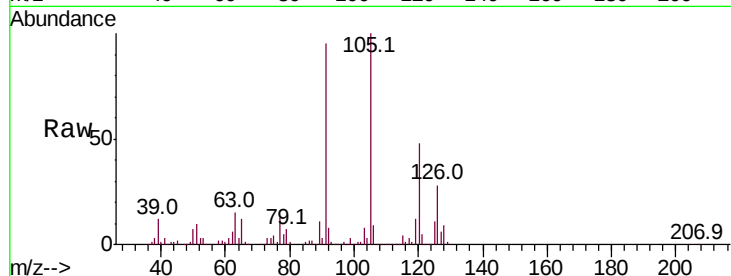
120 48.4 38.2 57.4

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#76

4-Chlorotoluene

Concen: 11.441 ug/l

RT: 10.76 min Scan# 3006

Delta R.T. -0.00 min

Lab File: VU033366.D

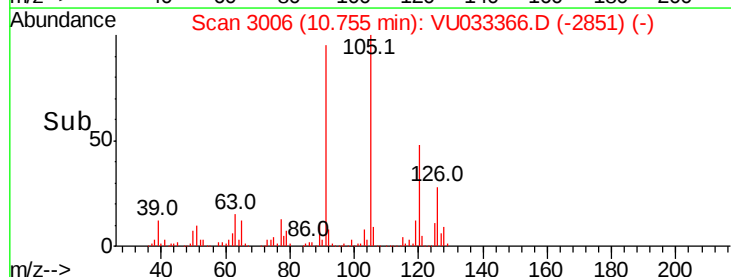
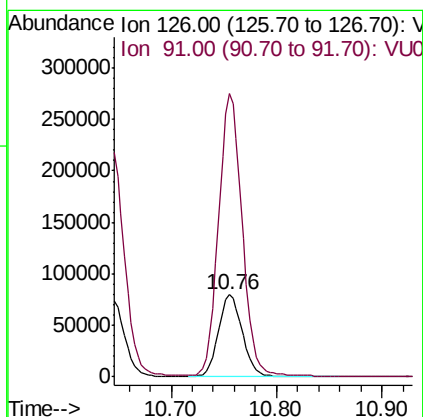
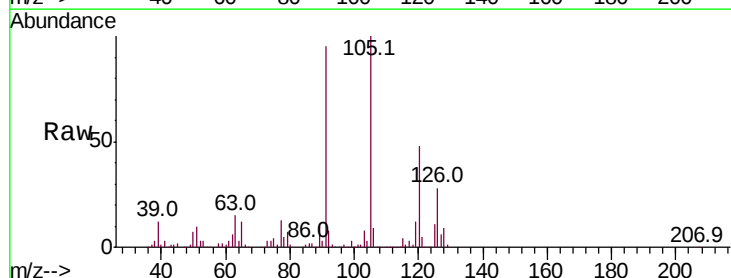
Acq: 22 Jul 2019 21:52

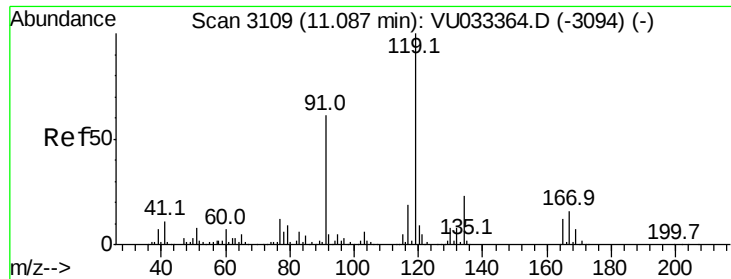
Tgt Ion:126 Resp: 126038

Ion Ratio Lower Upper

126 100

91 340.4 0.0 681.0





#77

tert-Butylbenzene

Concen: 11.269 ug/l

RT: 11.09 min Scan# 3109

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

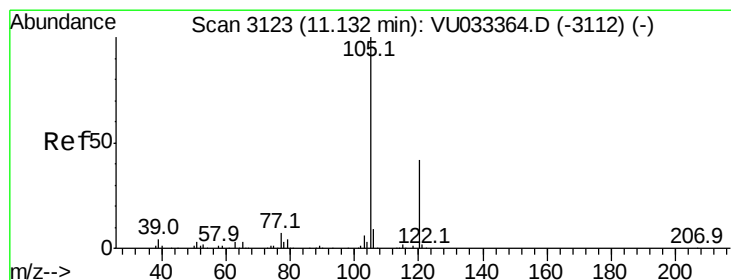
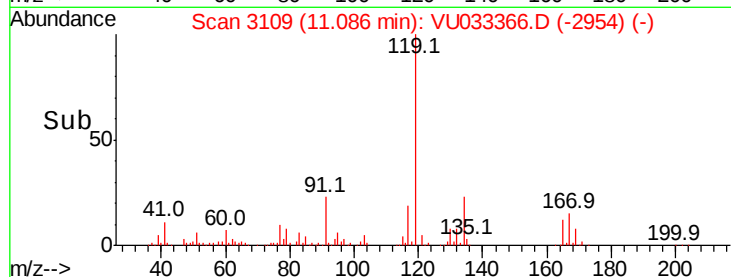
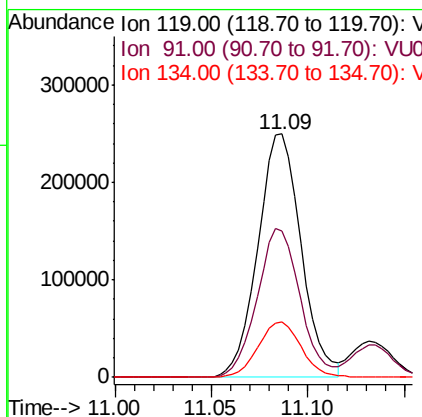
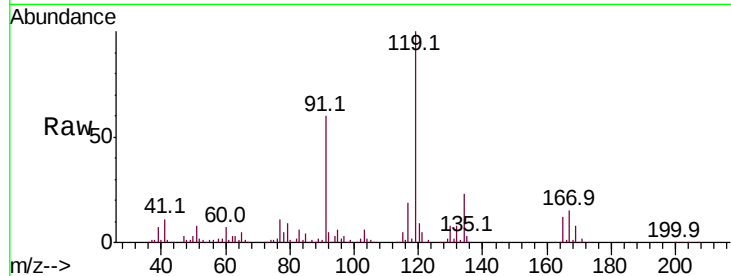
ClientSampleId :

ICVVU072219

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 389553 |       |       |
| 91      | 60.6  | 30.4   | 91.3  |       |
| 134     | 22.9  | 18.5   | 27.7  |       |

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#78

1,2,4-Trimethylbenzene

Concen: 11.972 ug/l

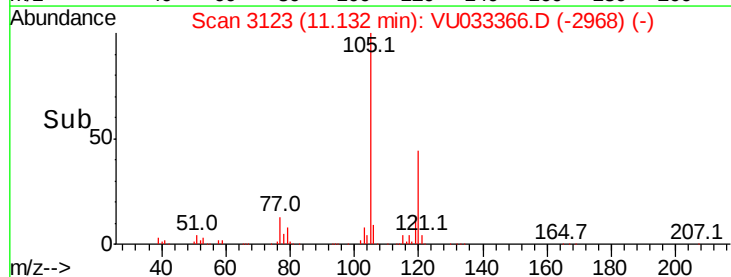
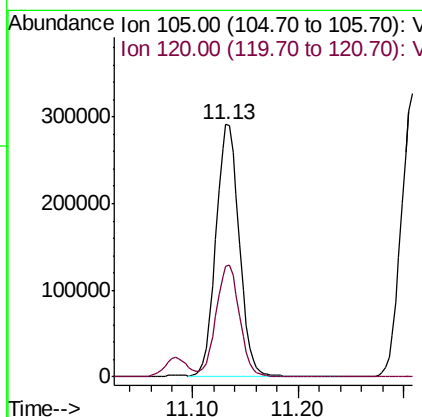
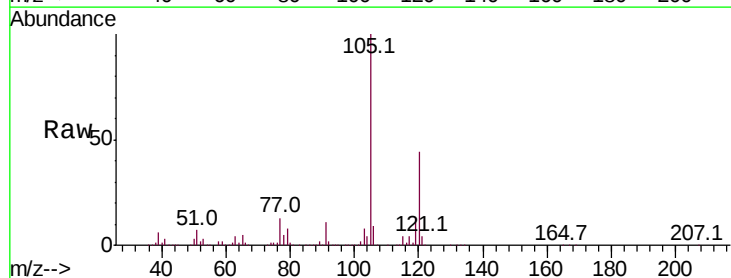
RT: 11.13 min Scan# 3123

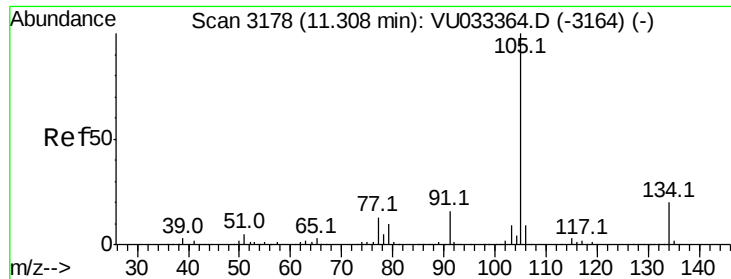
Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 105     | 100   | 446391 |       |       |
| 120     | 44.9  | 22.5   | 67.5  |       |





#79

sec-Butylbenzene

Concen: 10.620 ug/l

RT: 11.31 min Scan# 3178

Delta R.T. -0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

Instrument :

MSVOA\_U

ClientSampleId :

ICVVU072219

Tot Ion:105 Resp: 505336

Ion Ratio Lower Upper

105 100

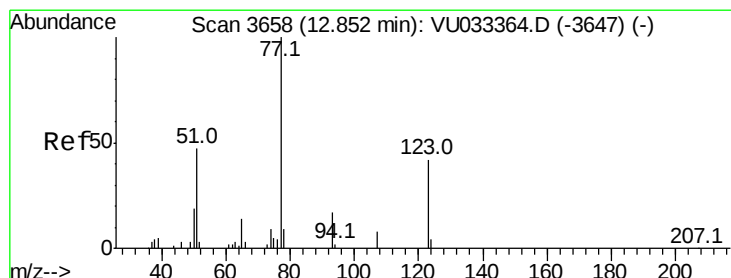
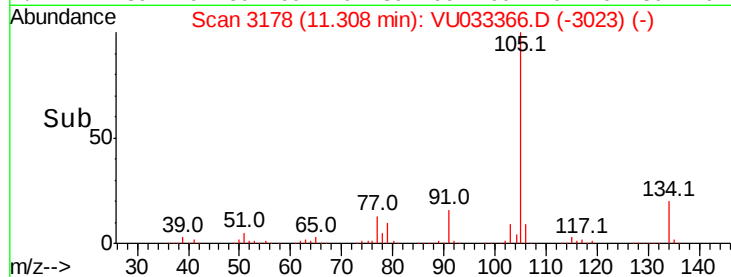
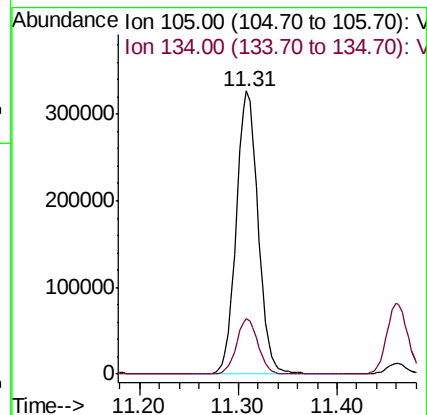
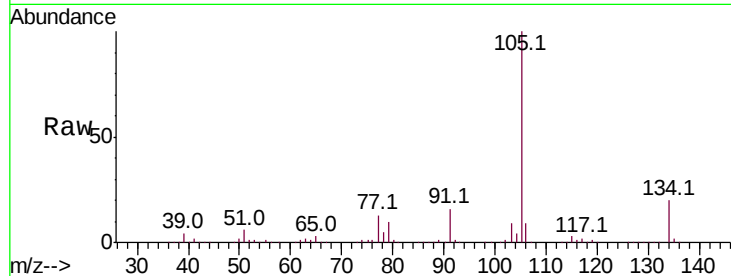
134 19.5 15.5 23.3

Manual Integrations

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#80

Nitrobenzene

Concen: 8.519 ug/l m

RT: 12.85 min Scan# 3659

Delta R.T. 0.00 min

Lab File: VU033366.D

Acq: 22 Jul 2019 21:52

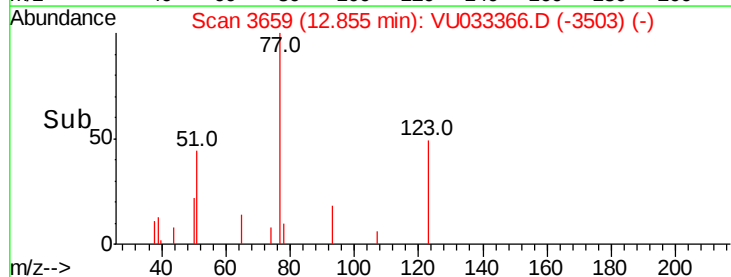
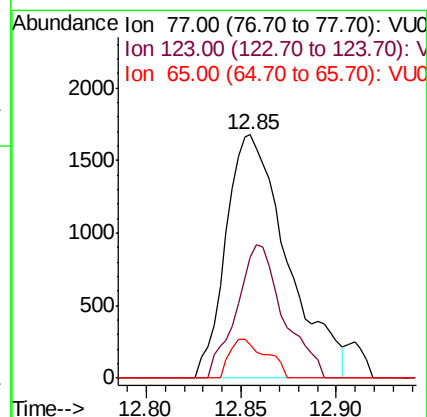
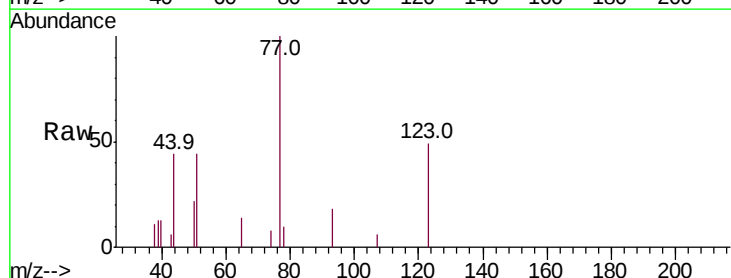
Tgt Ion: 77 Resp: 3757

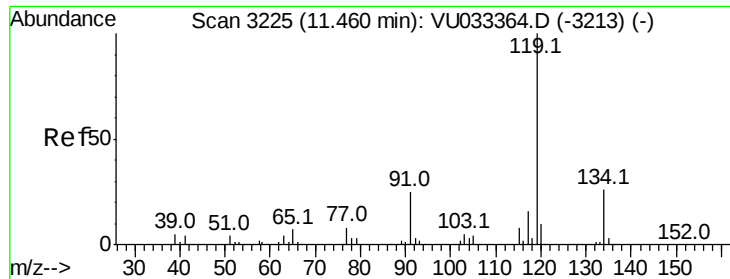
Ion Ratio Lower Upper

77 100

123 41.8 19.3 68.3

65 0.0 10.1 12.9#





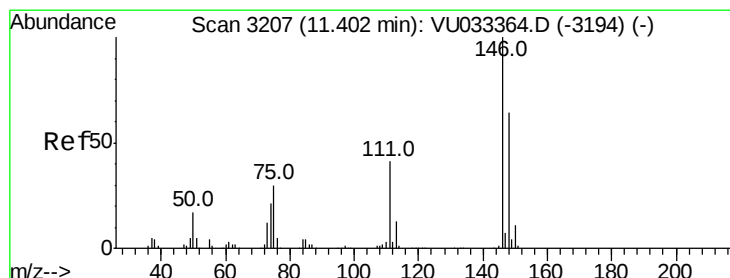
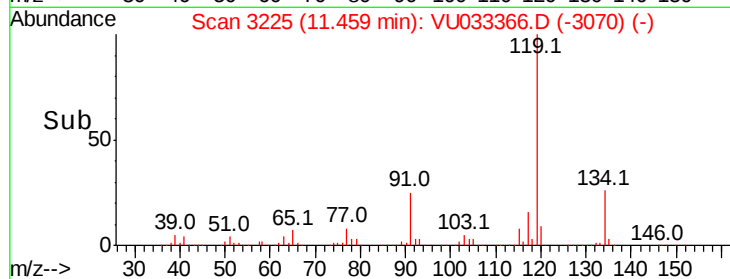
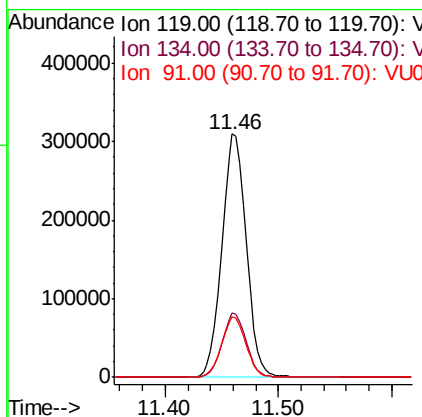
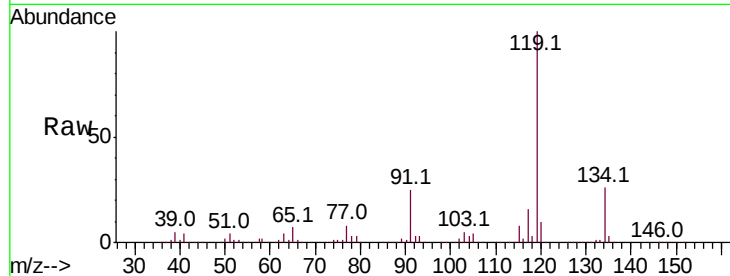
#81  
p-Isopropyltoluene  
Concen: 11.997 ug/l  
RT: 11.46 min Scan# 3225  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU072219

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 464127 |       |       |
| 134     | 26.2  | 21.0   | 31.4  |       |
| 91      | 24.6  | 19.8   | 29.6  |       |

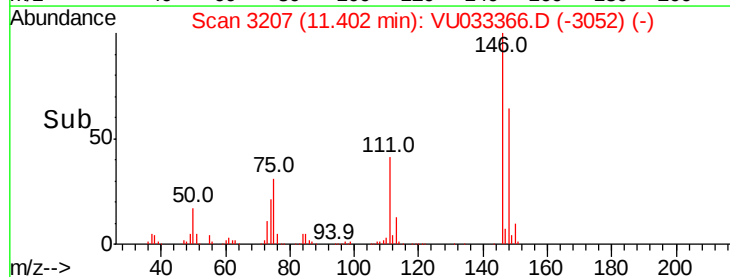
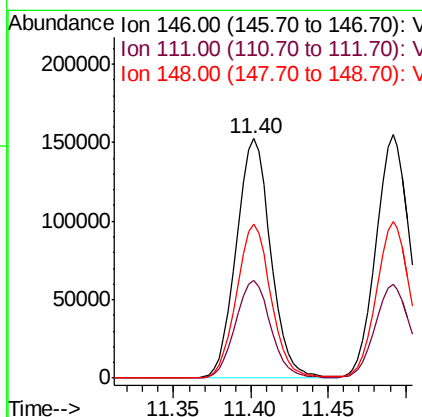
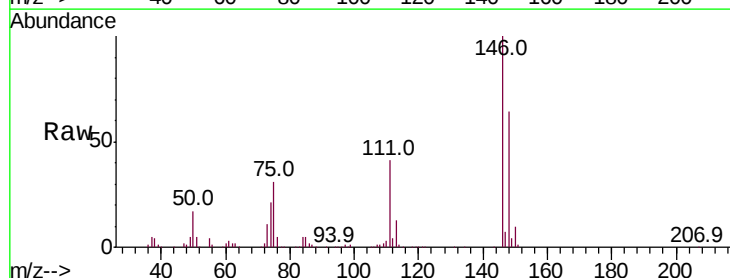
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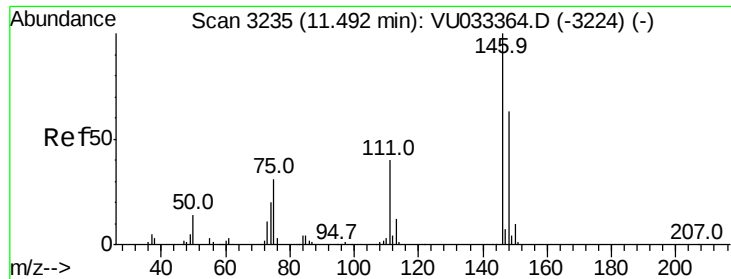
MMDadoda  
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#82  
1,3-Dichlorobenzene  
Concen: 10.386 ug/l  
RT: 11.40 min Scan# 3207  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 236922 |       |       |
| 111     | 41.4  | 33.3   | 49.9  |       |
| 148     | 64.3  | 50.8   | 76.2  |       |





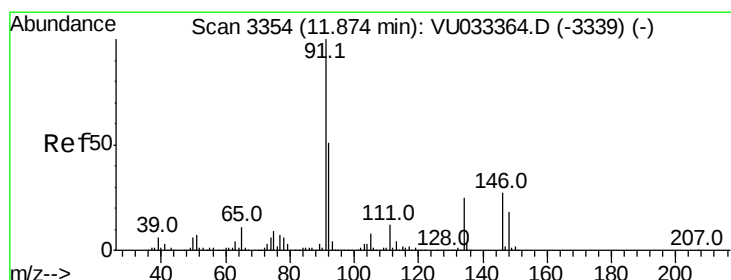
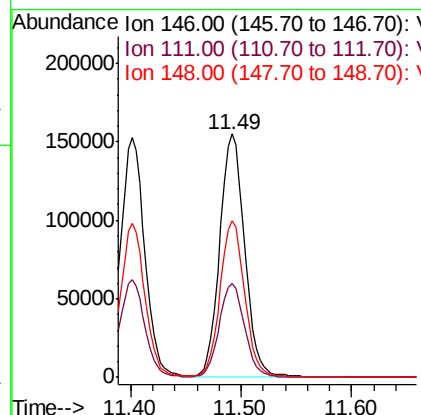
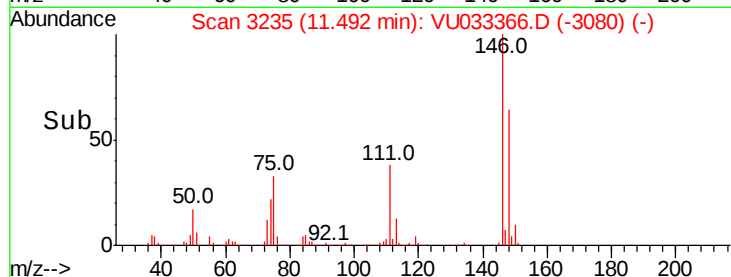
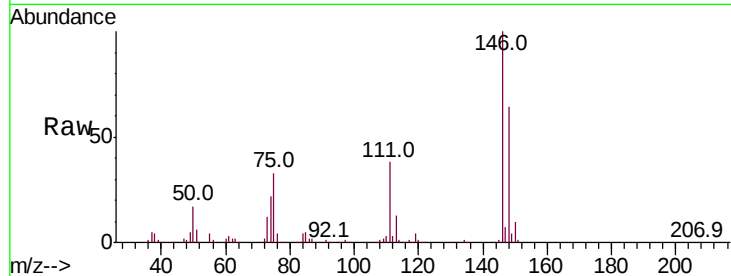
#83  
 1,4-Dichlorobenzene  
 Concen: 10.762 ug/l  
 RT: 11.49 min Scan# 3235  
 Delta R.T. -0.00 min  
 Lab File: VU033366.D  
 Acq: 22 Jul 2019 21:52

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU072219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 39.0  | 32.2  | 48.4  |
| 148     | 63.8  | 51.0  | 76.4  |

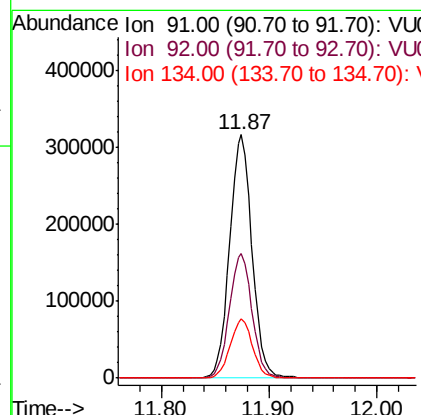
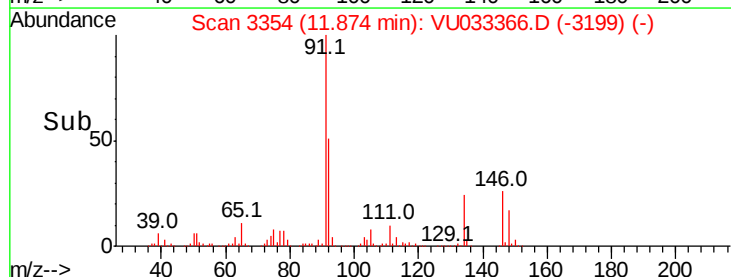
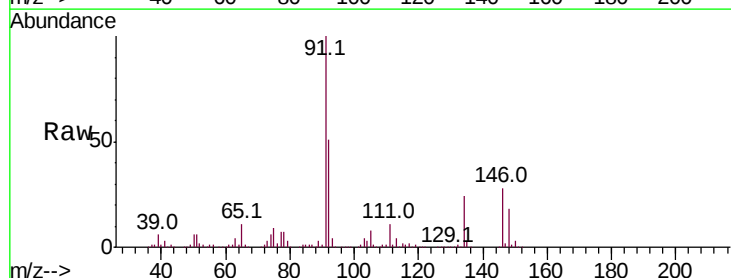
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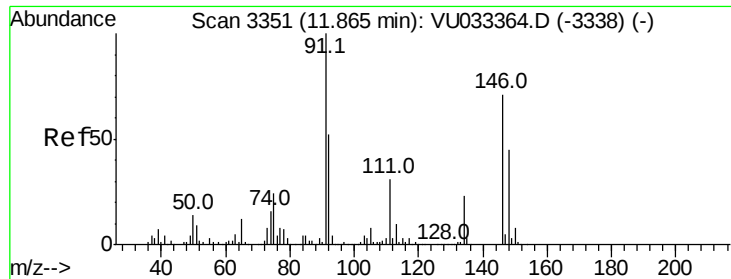
MMDadoda  
 7/23/2019 8:55:19 AM



#84  
 n-Butylbenzene  
 Concen: 11.549 ug/l  
 RT: 11.87 min Scan# 3354  
 Delta R.T. -0.00 min  
 Lab File: VU033366.D  
 Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 51.7  | 41.0  | 61.6  |
| 134     | 24.3  | 19.5  | 29.3  |





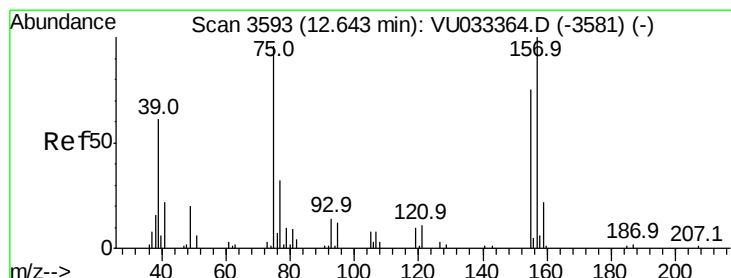
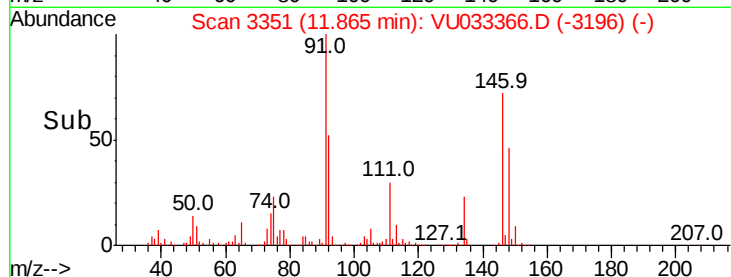
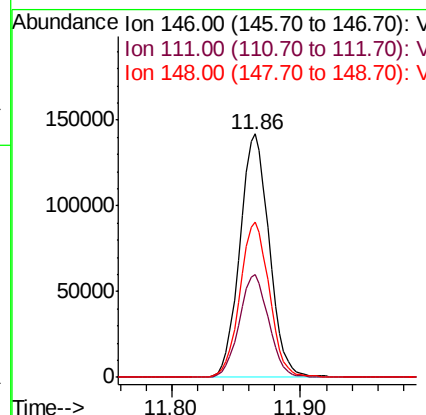
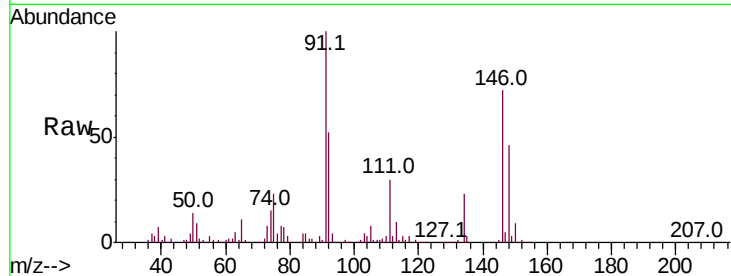
#85  
 1,2-Dichlorobenzene  
 Concen: 10.500 ug/l  
 RT: 11.86 min Scan# 3351  
 Delta R.T. -0.00 min  
 Lab File: VU033366.D  
 Acq: 22 Jul 2019 21:52

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ICVVU072219

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.4  | 21.7  | 65.1  |
| 148     | 64.0  | 32.0  | 96.0  |

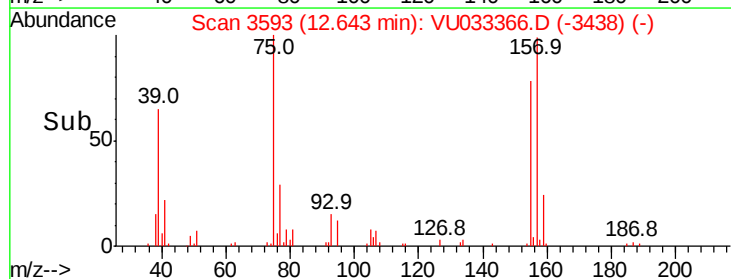
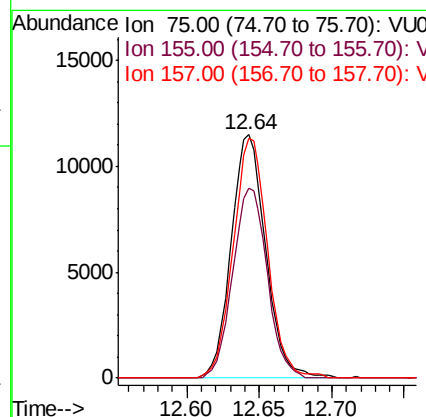
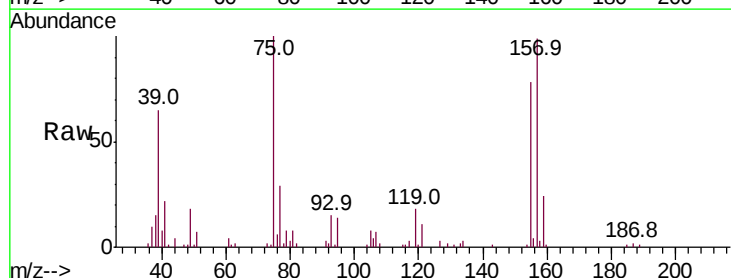
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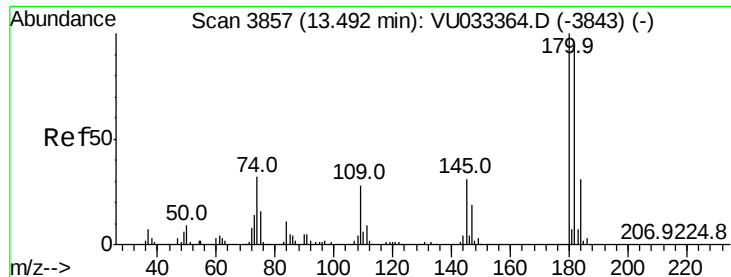
MMDadoda  
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#86  
 1,2-Dibromo-3-Chloropropane  
 Concen: 11.389 ug/l  
 RT: 12.64 min Scan# 3593  
 Delta R.T. -0.00 min  
 Lab File: VU033366.D  
 Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 77.8  | 63.3  | 94.9  |
| 157     | 98.4  | 82.5  | 123.7 |





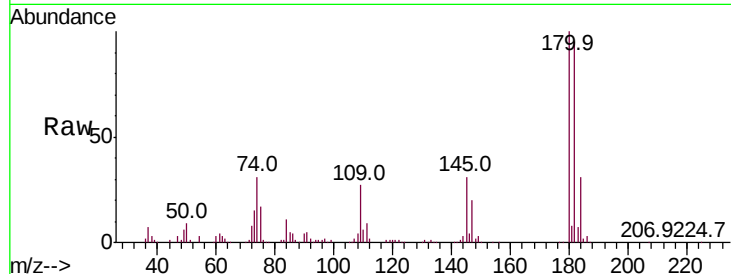
#87  
 1,2,4-Trichlorobenzene  
 Concen: 12.696 ug/l  
 RT: 13.49 min Scan# 3857  
 Delta R.T. -0.00 min  
 Lab File: VU033366.D  
 Acq: 22 Jul 2019 21:52

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 ICVVU072219

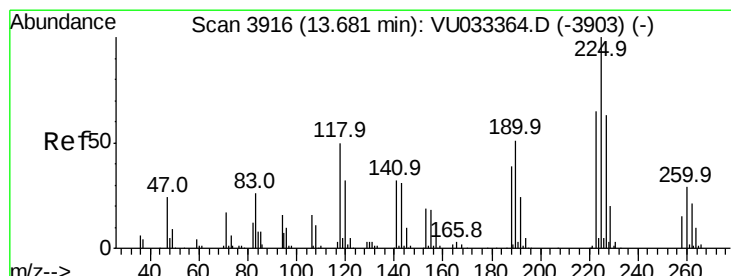
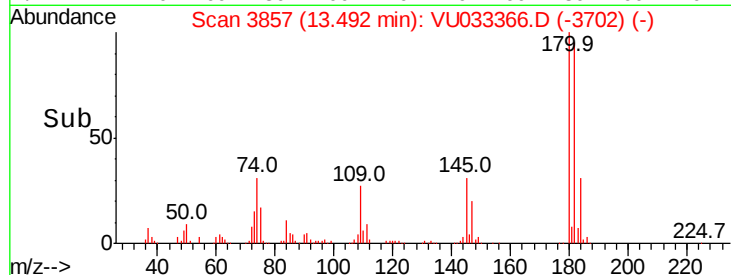
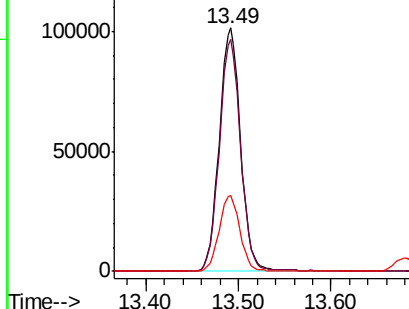
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 180     | 100   |      |       |       |
| 182     | 95.0  | 76.2 | 114.4 |       |
| 145     | 30.2  | 25.0 | 37.4  |       |

Manual Integrations  
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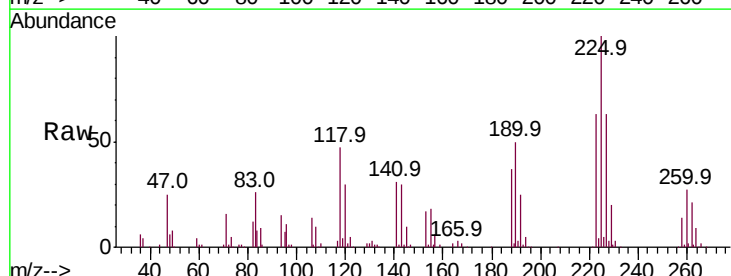


Abundance Ion 179.70 (179.40 to 180.40): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

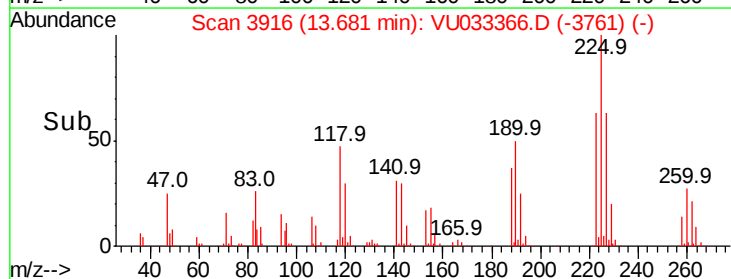
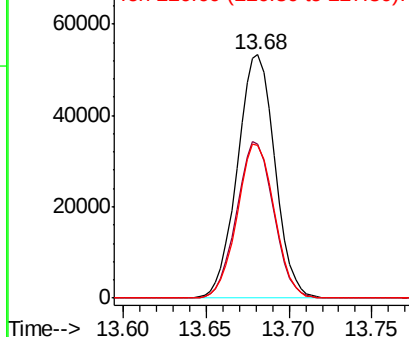


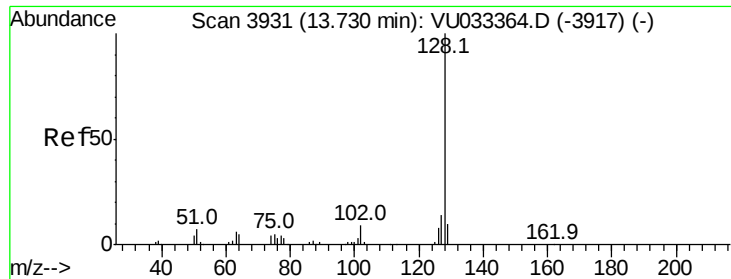
#88  
 Hexachlorobutadiene  
 Concen: 10.678 ug/l  
 RT: 13.68 min Scan# 3916  
 Delta R.T. -0.00 min  
 Lab File: VU033366.D  
 Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 225     | 100   |      |       |       |
| 223     | 63.4  | 52.2 | 78.4  |       |
| 227     | 62.8  | 51.7 | 77.5  |       |



Abundance Ion 224.60 (224.30 to 225.30): V  
 Ion 222.60 (222.30 to 223.30): V  
 Ion 226.60 (226.30 to 227.30): V





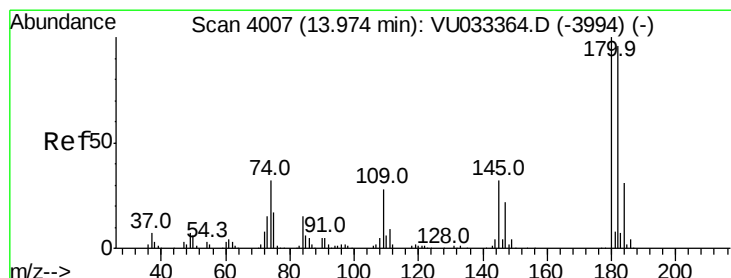
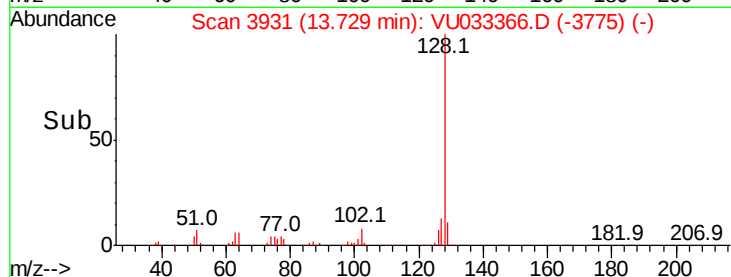
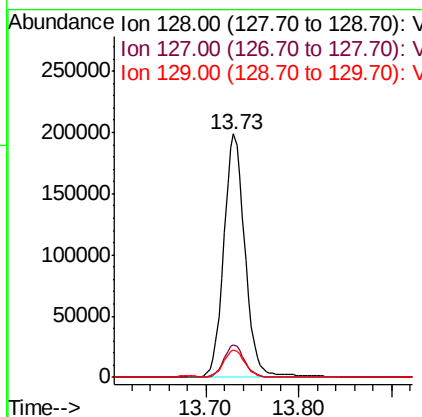
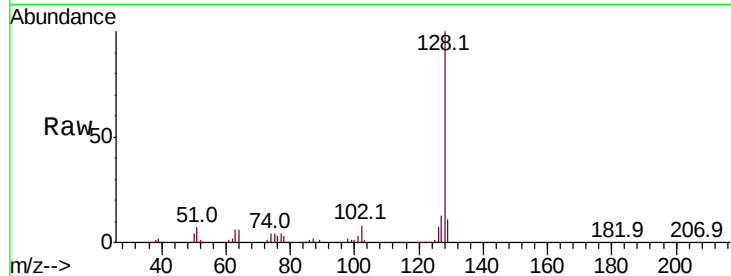
#89  
Naphthalene  
Concen: 10.873 ug/l  
RT: 13.73 min Scan# 3931  
Delta R.T. 0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

Instrument :  
MSVOA\_U  
ClientSampleId :  
ICVVU072219

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 315940 |       |       |
| 127     | 13.2  |        | 10.8  | 16.2  |
| 129     | 10.9  |        | 8.5   | 12.7  |

Manual Integrations  
APPROVED

MMDadoda  
7/23/2019 8:55:19 AM



#90  
1,2,3-Trichlorobenzene  
Concen: 12.115 ug/l  
RT: 13.97 min Scan# 4007  
Delta R.T. -0.00 min  
Lab File: VU033366.D  
Acq: 22 Jul 2019 21:52

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 180     | 100   | 149640 |       |       |
| 182     | 96.8  |        | 77.9  | 116.9 |
| 145     | 32.8  |        | 25.8  | 38.8  |

