

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062420\  
 Data File : VV017081.D  
 Acq On : 24 Jun 2020 19:05  
 Operator : SY/MD  
 Sample : L3105-05  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFXK8

Manual Integrations  
 APPROVED

MMDadoda  
 6/25/2020 3:38:03 PM

Quant Time: Jun 25 02:52:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
 Quant Title : TRACE VOA SOM01.0  
 QLast Update : Thu Jun 25 01:16:55 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 176410   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 169255   | 5.00 | ug/L  | 0.00     |
| 61) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 83185    | 5.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |        |       |          |          |      |        |
|--------------------------------|--------|-------|----------|----------|------|--------|
| 4) Vinyl Chloride-d3           | 1.32   | 65    | 49097    | 4.64     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 92.80% |
| 7) Chloroethane-d5             | 1.58   | 69    | 32523    | 4.22     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 84.40% |
| 11) 1,1-Dichloroethene-d2      | 2.13   | 63    | 78130    | 3.88     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 77.60% |
| 20) 2-Butanone-d5              | 3.92   | 46    | 125681   | 46.58    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 93.16% |
| 24) Chloroform-d               | 4.38   | 84    | 105340   | 4.65     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 93.00% |
| 26) 1,2-Dichloroethane-d4      | 5.06   | 65    | 57115    | 4.76     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 95.20% |
| 32) Benzene-d6                 | 5.08   | 84    | 199944   | 4.56     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.20% |
| 36) 1,2-Dichloropropane-d6     | 6.10   | 67    | 59431    | 4.52     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 90.40% |
| 41) Toluene-d8                 | 7.34   | 98    | 178230   | 4.33     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 86.60% |
| 45) trans-1,3-Dichloropropene- | 7.65   | 79    | 22955    | 4.19     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 83.80% |
| 48) 2-Hexanone-d5              | 8.11   | 63    | 92082    | 44.14    | ug/L | 0.00   |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 88.28% |
| 59) 1,1,2,2-Tetrachloroethane- | 10.24  | 84    | 42862    | 4.91     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 98.20% |
| 65) 1,2-Dichlorobenzene-d4     | 11.65  | 152   | 74642    | 4.85     | ug/L | 0.00   |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 97.00% |

## Target Compounds

|                              |      |     |         |         | Ovalue   |
|------------------------------|------|-----|---------|---------|----------|
| 5) Vinyl chloride            | 1.32 | 62  | 1181923 | 102.102 | ug/L 100 |
| 8) Chloroethane              | 1.60 | 64  | 1364m   | 0.213   | ug/L     |
| 12) 1,1-Dichloroethene       | 2.14 | 96  | 28845   | 3.407   | ug/L 87  |
| 13) Acetone                  | 2.20 | 43  | 11921   | 8.739   | ug/L 95  |
| 18) trans-1,2-Dichloroethene | 2.78 | 96  | 21653   | 2.413   | ug/L 98  |
| 19) 1,1-Dichloroethane       | 3.21 | 63  | 600717  | 29.800  | ug/L 98  |
| 22) cis-1,2-Dichloroethene   | 3.94 | 96  | 644629  | 52.542  | ug/L 100 |
| 25) Chloroform               | 4.41 | 83  | 21670   | 0.984   | ug/L 96  |
| 27) 1,2-Dichloroethane       | 5.16 | 62  | 20685   | 1.512   | ug/L 100 |
| 29) 1,1,1-Trichloroethane    | 4.64 | 97  | 162714  | 8.024   | ug/L 98  |
| 30) Cyclohexane              | 4.70 | 56  | 73127   | 3.790   | ug/L 100 |
| 33) Benzene                  | 5.13 | 78  | 136976  | 3.090   | ug/L 100 |
| 34) Trichloroethene          | 5.94 | 95  | 14057   | 1.083   | ug/L 97  |
| 42) Toluene                  | 7.42 | 91  | 4153    | 0.081   | ug/L 97  |
| 47) 1,1,2-Trichloroethane    | 7.86 | 97  | 19817   | 2.546   | ug/L 98  |
| 53) Chlorobenzene            | 8.90 | 112 | 463743  | 14.436  | ug/L 98  |
| 56) o-xylene                 | 9.57 | 106 | 42635   | 2.118   | ug/L 99  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062420\  
Data File : VV017081.D  
Acq On : 24 Jun 2020 19:05  
Operator : SY/MD  
Sample : L3105-05  
Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
BFXK8

Manual Integrations  
APPROVED

MMDadoda  
6/25/2020 3:38:03 PM

Quant Time: Jun 25 02:52:02 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Jun 25 01:16:55 2020  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 58) Isopropylbenzene       | 9.95  | 105  | 24390    | 0.440 | ug/L  | 98       |
| 63) 1,3-Dichlorobenzene    | 11.21 | 146  | 32944    | 1.315 | ug/L  | 99       |
| 64) 1,4-Dichlorobenzene    | 11.30 | 146  | 64932    | 2.551 | ug/L  | 99       |
| 66) 1,2-Dichlorobenzene    | 11.67 | 146  | 30309    | 1.334 | ug/L  | 99       |
| 69) 1,2,4-trichlorobenzene | 13.29 | 180  | 5968     | 0.360 | ug/L  | 97       |
| 71) 1,2,3-Trichlorobenzene | 13.77 | 180  | 2082     | 0.154 | ug/L  | 94       |

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

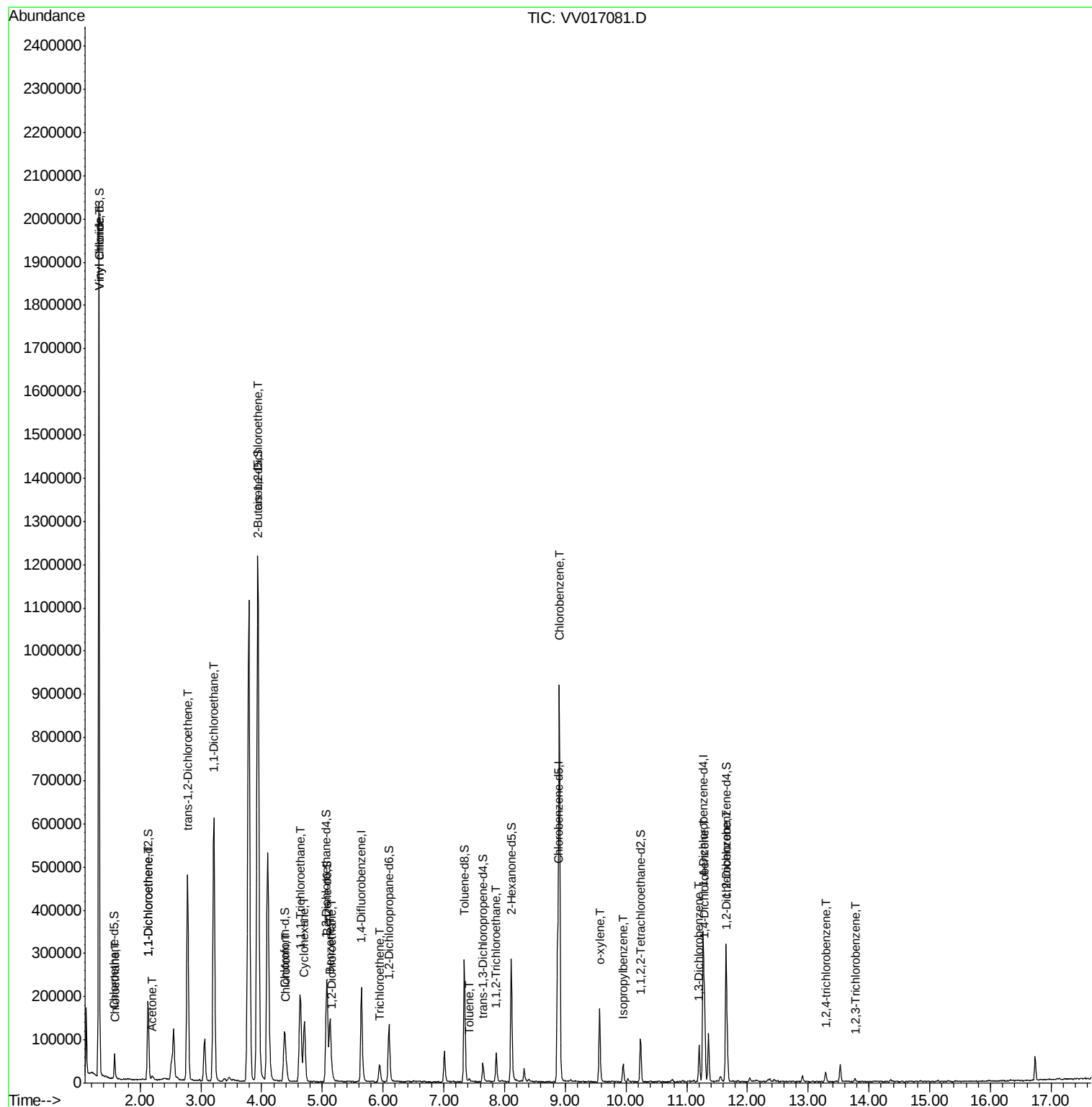
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Data File : VV017081.D  
Acq On : 24 Jun 2020 19:05  
Operator : SY/MD  
Sample : L3105-05  
Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 14 Sample Multiplier: 1

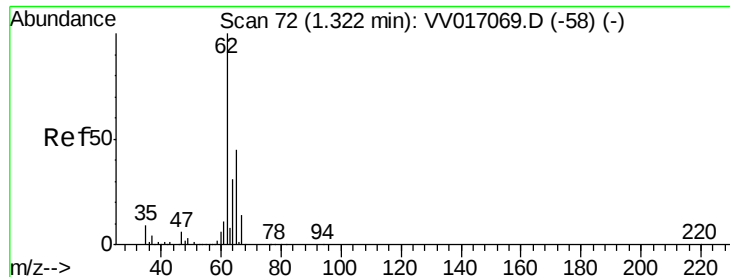
Instrument :  
MSVOA\_V  
ClientSampleId :  
BFXK8

Manual Integrations  
APPROVED

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6/25/2020 3:38:03 PM

Quant Time: Jun 25 02:52:02 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR061720WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Thu Jun 25 01:16:55 2020  
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 102.102 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV017081.D

Acq: 24 Jun 2020 19:05

Instrument :

MSVOA\_V

ClientSampleId :

BFXK8

Tot Ion: 62 Resp: 1181923

Ion Ratio Lower Upper

62 100

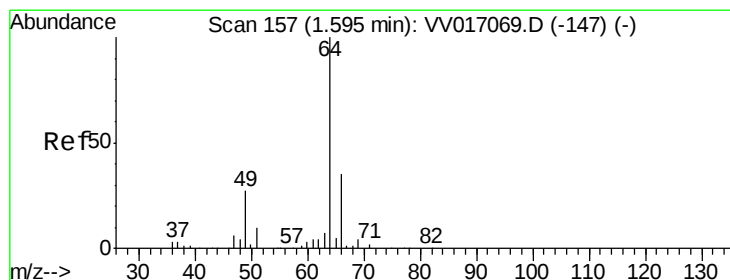
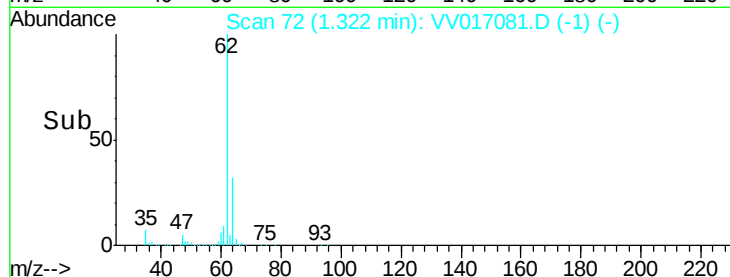
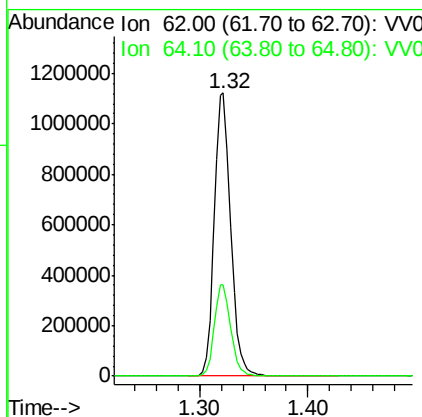
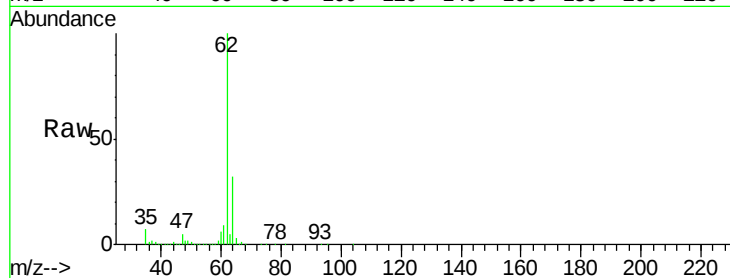
64 32.4 22.5 41.7

Manual Integrations

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#8

Chloroethane

Concen: 0.213 ug/L m

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV017081.D

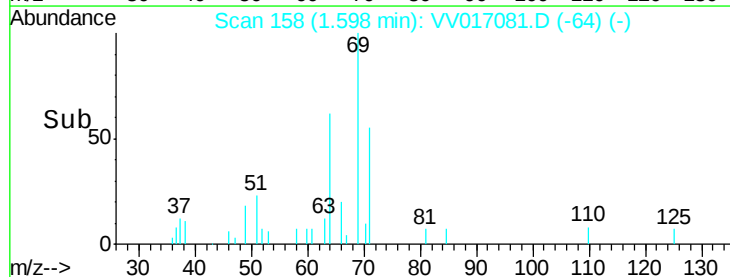
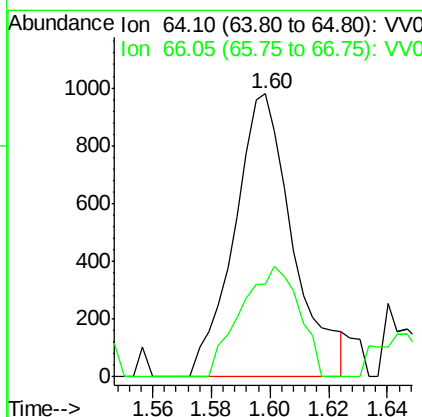
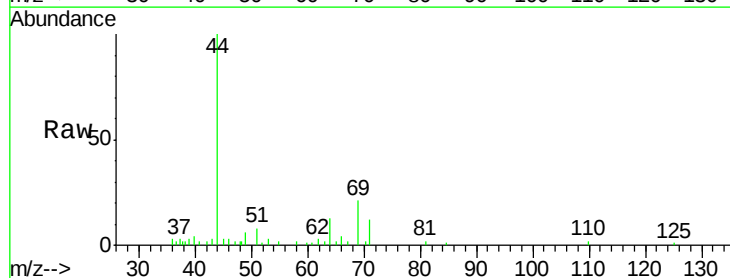
Acq: 24 Jun 2020 19:05

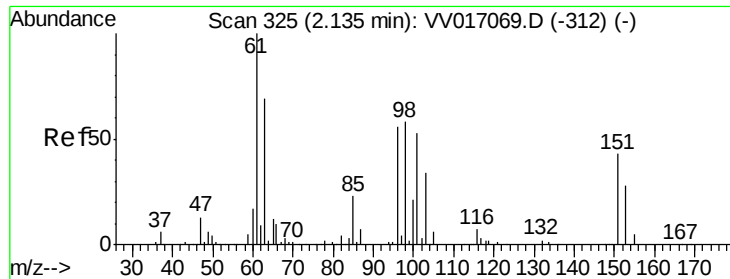
Tgt Ion: 64 Resp: 1364

Ion Ratio Lower Upper

64 100

66 32.9 22.8 42.4





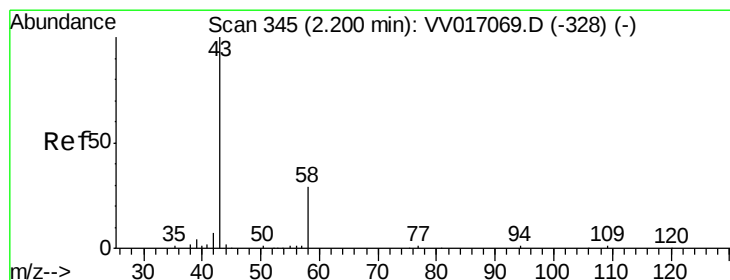
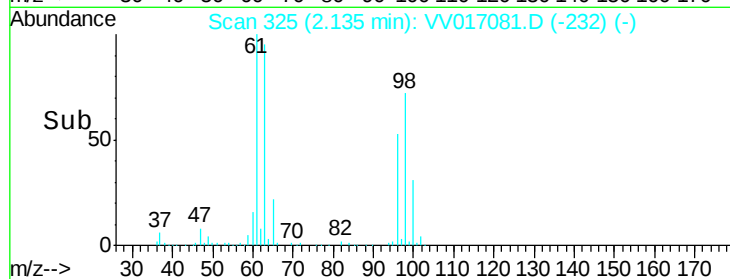
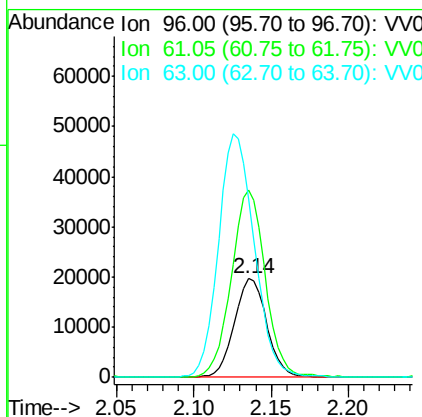
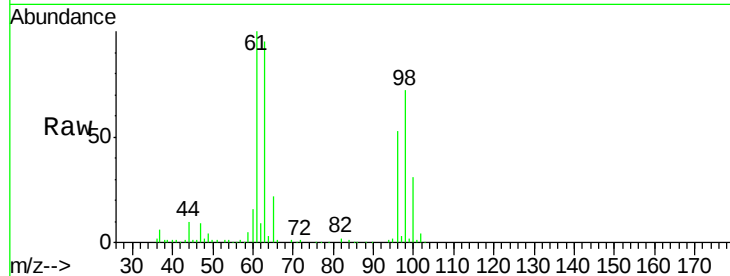
#12  
 1,1-Dichloroethene  
 Concen: 3.407 ug/L  
 RT: 2.14 min Scan# 325  
 Delta R.T. -0.00 min  
 Lab File: VV017081.D  
 Acq: 24 Jun 2020 19:05

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFXK8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 189.8 | 125.0 | 232.2 |
| 63      | 180.1 | 109.8 | 203.8 |

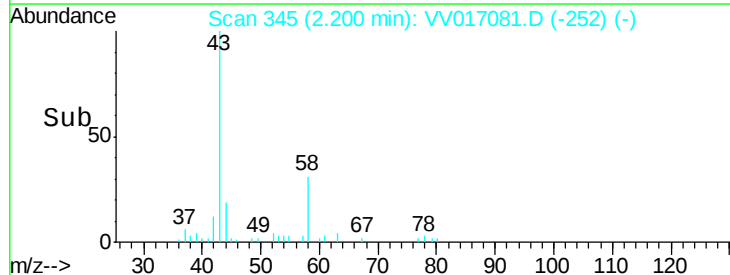
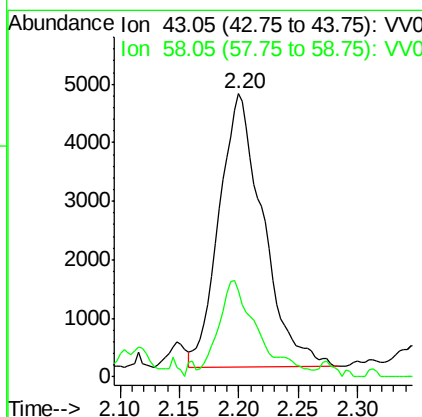
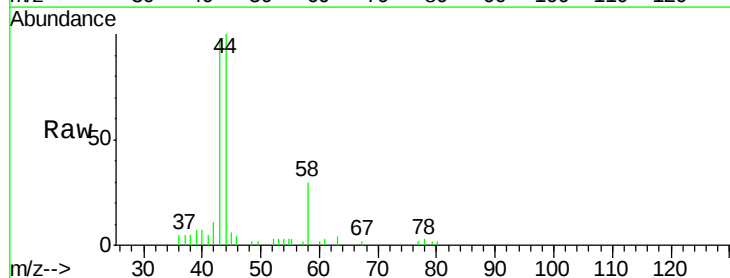
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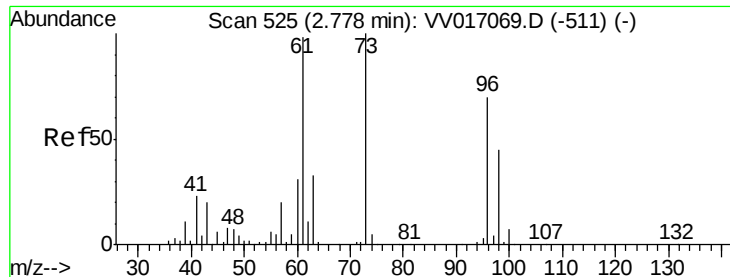
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#13  
 Acetone  
 Concen: 8.739 ug/L  
 RT: 2.20 min Scan# 345  
 Delta R.T. -0.00 min  
 Lab File: VV017081.D  
 Acq: 24 Jun 2020 19:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 31.8  | 0.0   | 58.4  |





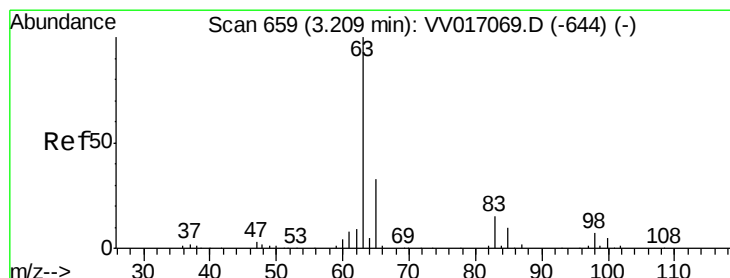
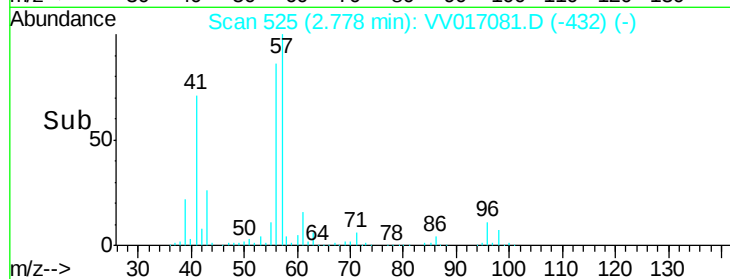
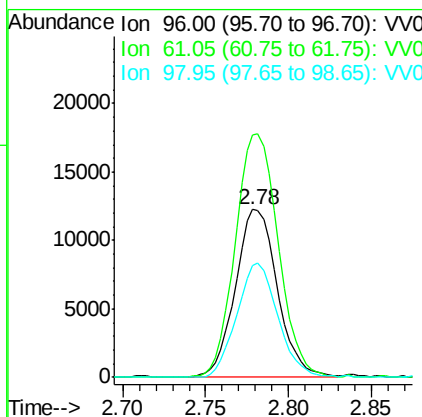
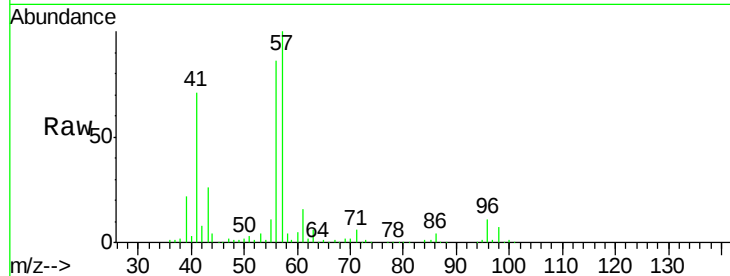
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trans-1,2-Dichloroethene  
Concen: 2.413 ug/L  
RT: 2.78 min Scan# 525  
Delta R.T. -0.00 min  
Lab File: VV017081.D  
Acq: 24 Jun 2020 19:05

Instrument :  
MSVOA\_V  
ClientSampleId :  
BFXK8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 144.7 | 102.3 | 189.9 |
| 98      | 66.7  | 44.7  | 82.9  |

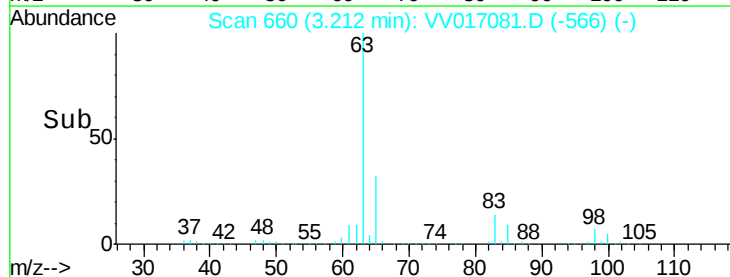
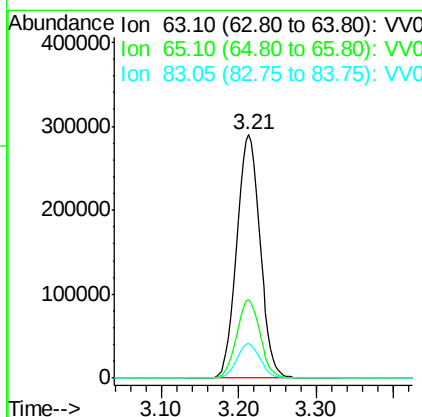
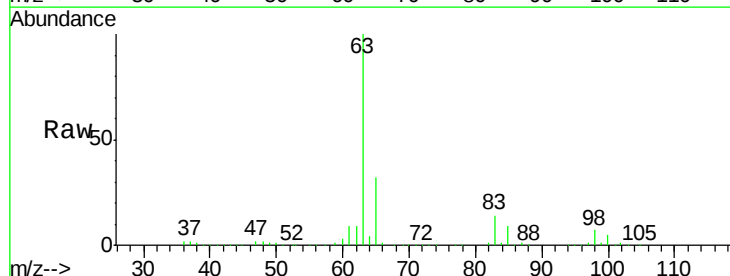
Manual Integrations  
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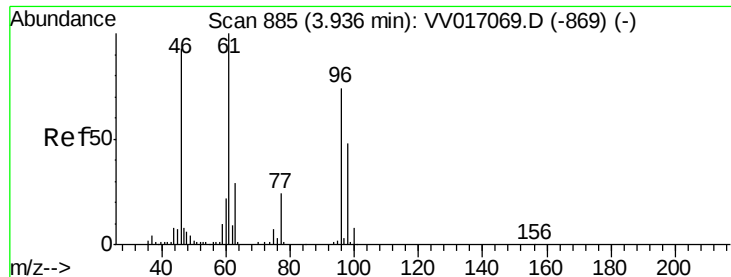
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#19  
1,1-Dichloroethane  
Concen: 29.800 ug/L  
RT: 3.21 min Scan# 660  
Delta R.T. 0.00 min  
Lab File: VV017081.D  
Acq: 24 Jun 2020 19:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 32.2  | 21.8  | 40.4  |
| 83      | 14.1  | 9.7   | 17.9  |





#22

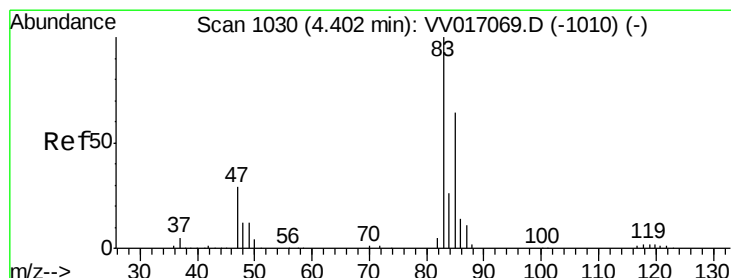
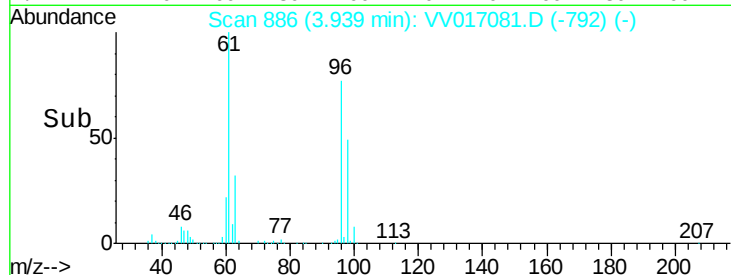
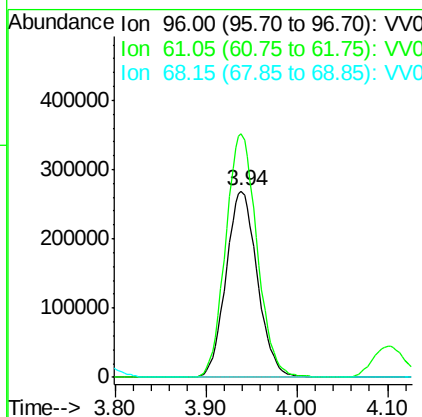
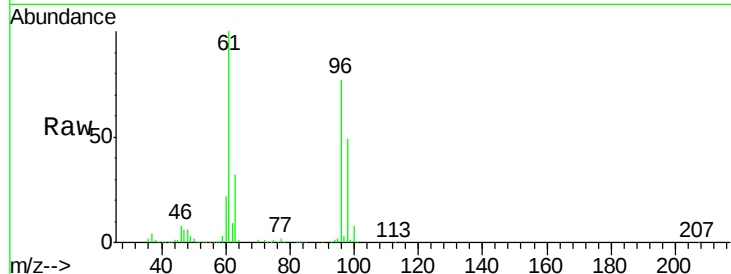
cis-1,2-Dichloroethene  
Concen: 52.542 ug/L  
RT: 3.94 min Scan# 886  
Delta R.T. 0.00 min  
Lab File: VV017081.D  
Acq: 24 Jun 2020 19:05

Instrument :  
MSVOA\_V  
ClientSampleId :  
BFXK8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 130.5 | 91.0  | 169.0 |
| 68      | 0.0   | 0.0   | 0.0   |

Manual Integrations  
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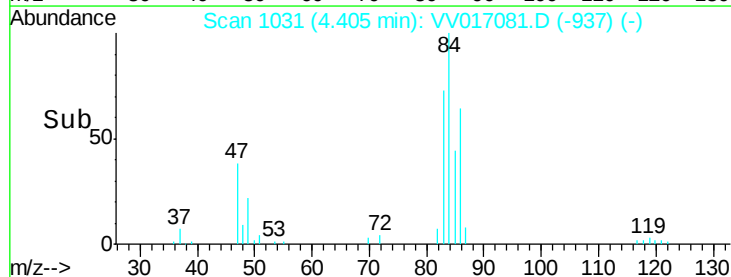
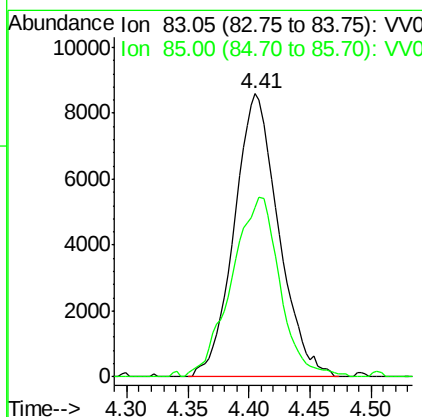
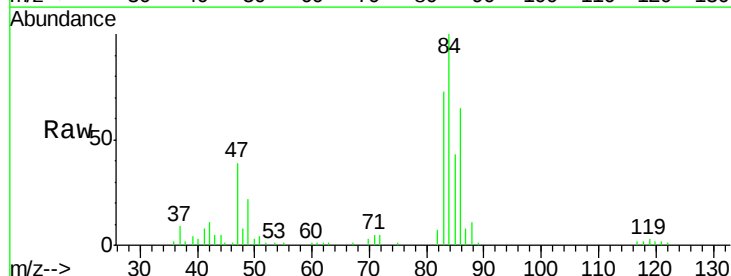
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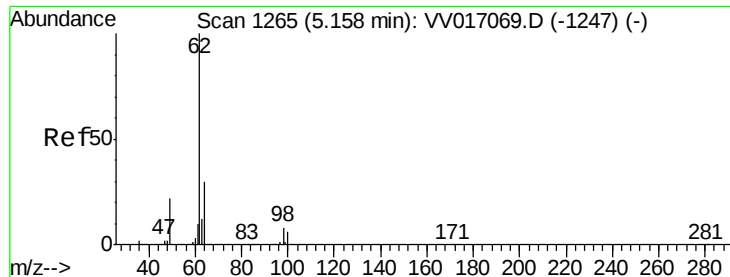


#25

Chloroform  
Concen: 0.984 ug/L  
RT: 4.41 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VV017081.D  
Acq: 24 Jun 2020 19:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 59.8  | 44.2  | 82.2  |





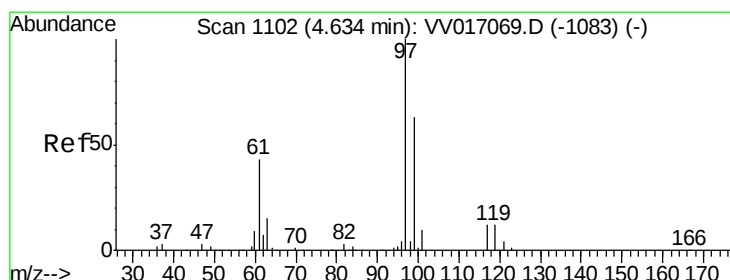
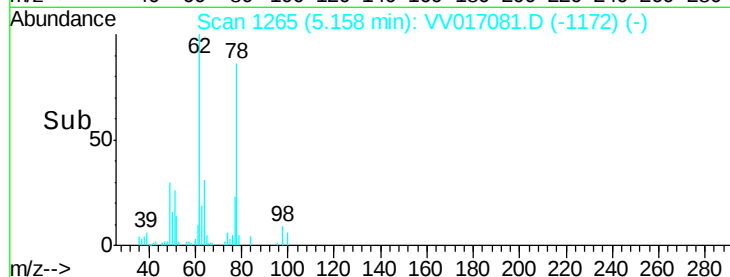
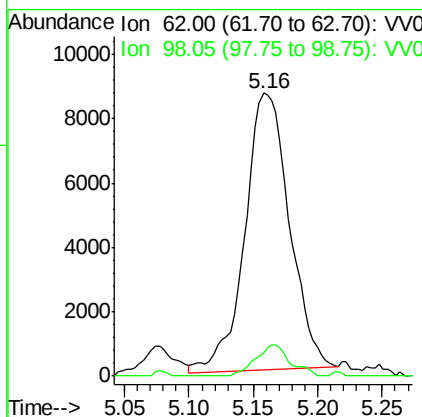
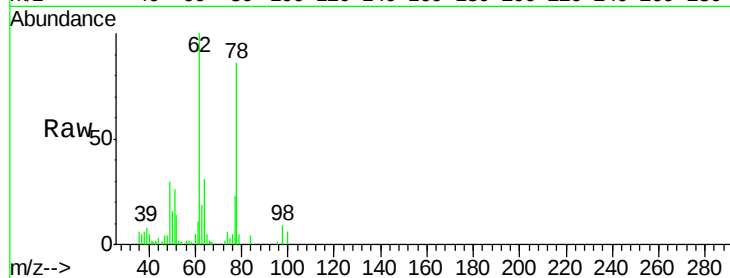
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 1,2-Dichloroethane  
 Concen: 1.512 ug/L  
 RT: 5.16 min Scan# 1265  
 Delta R.T. -0.00 min  
 Lab File: VV017081.D  
 Acq: 24 Jun 2020 19:05

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFXK8

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 62      | 100   | 20685 |       |       |
| 98      | 8.5   |       | 6.7   | 10.1  |

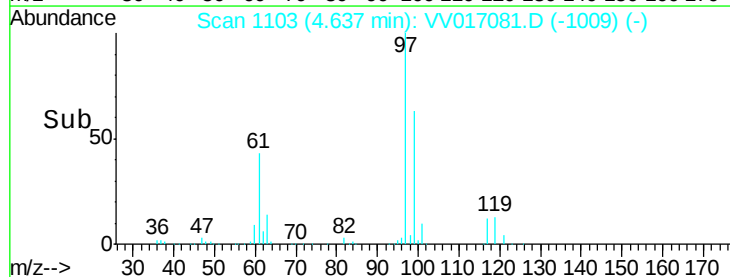
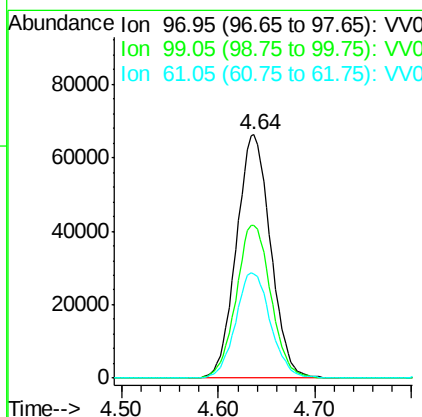
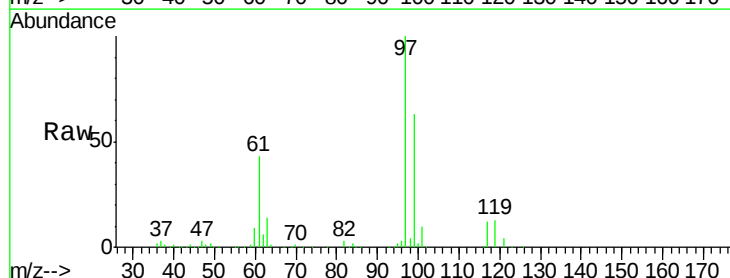
Manual Integrations  
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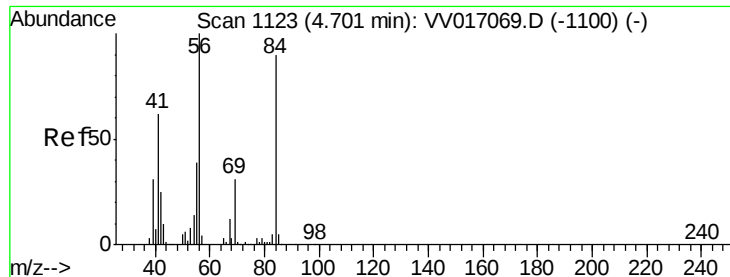
MMDadoda  
 6/25/2020 3:38:03 PM



#29  
 1,1,1-Trichloroethane  
 Concen: 8.024 ug/L  
 RT: 4.64 min Scan# 1103  
 Delta R.T. 0.00 min  
 Lab File: VV017081.D  
 Acq: 24 Jun 2020 19:05

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 97      | 100   | 162714 |       |       |
| 99      | 64.0  |        | 50.3  | 75.5  |
| 61      | 43.3  |        | 36.0  | 54.0  |





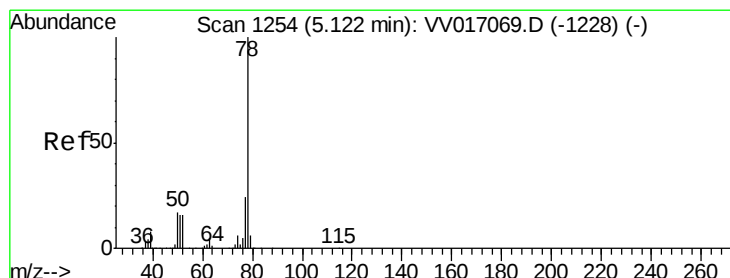
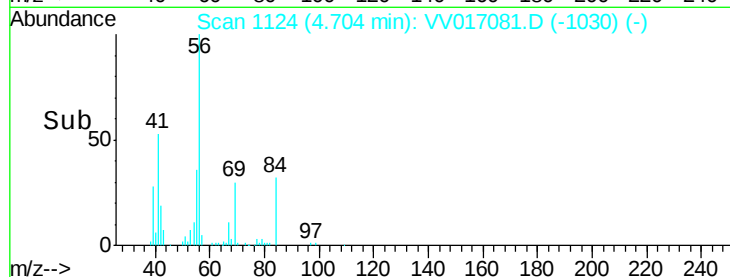
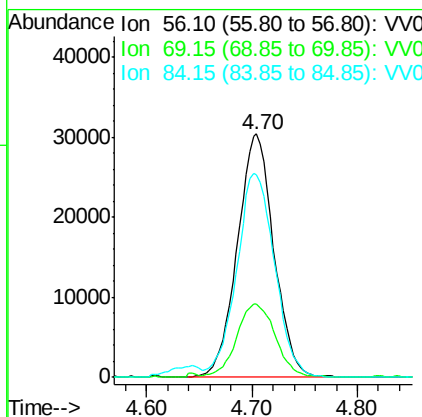
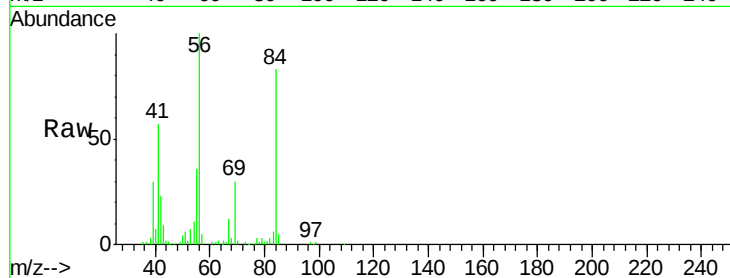
#30  
Cyclohexane  
Concen: 3.790 ug/L  
RT: 4.70 min Scan# 1124  
Delta R.T. 0.00 min  
Lab File: VV017081.D  
Acq: 24 Jun 2020 19:05

Instrument :  
MSVOA\_V  
ClientSampleId :  
BFXK8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 31.2  | 24.4  | 36.6  |
| 84      | 87.5  | 69.9  | 104.9 |

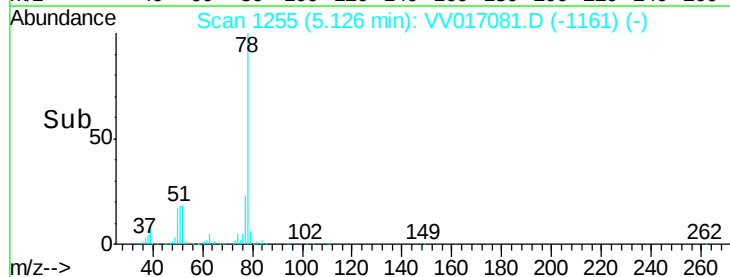
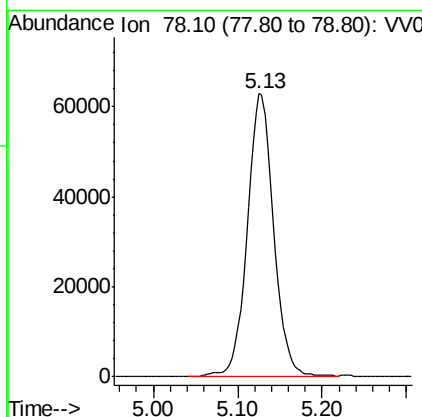
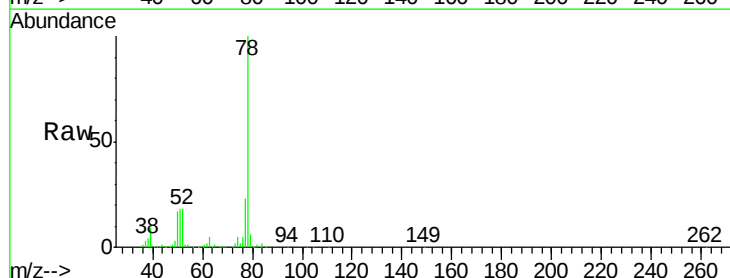
Manual Integrations  
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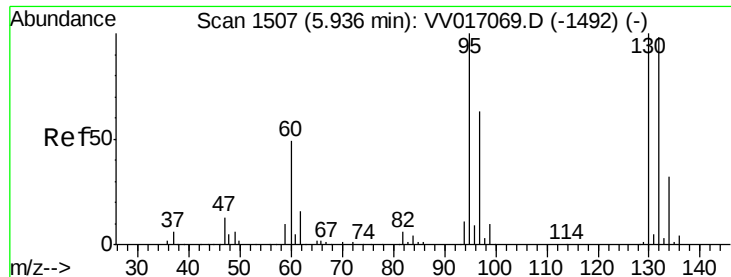
MMDadoda  
6/25/2020 3:38:03 PM



#33  
Benzene  
Concen: 3.090 ug/L  
RT: 5.13 min Scan# 1255  
Delta R.T. 0.00 min  
Lab File: VV017081.D  
Acq: 24 Jun 2020 19:05

Tgt Ion: 78 Resp: 136976





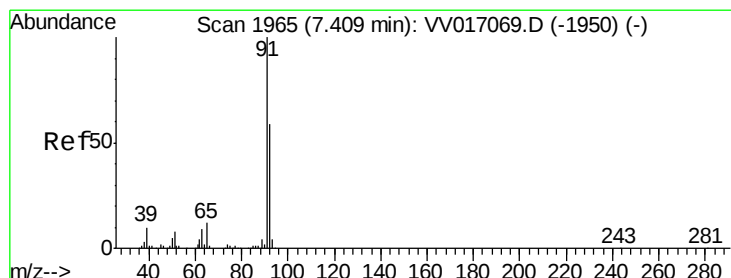
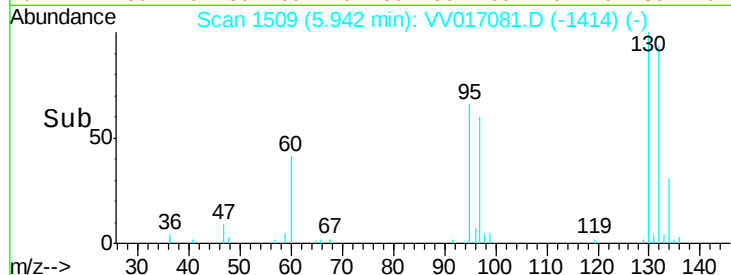
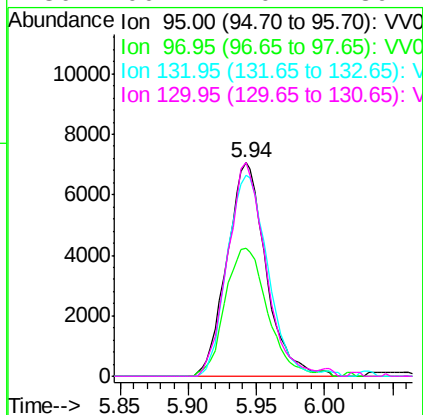
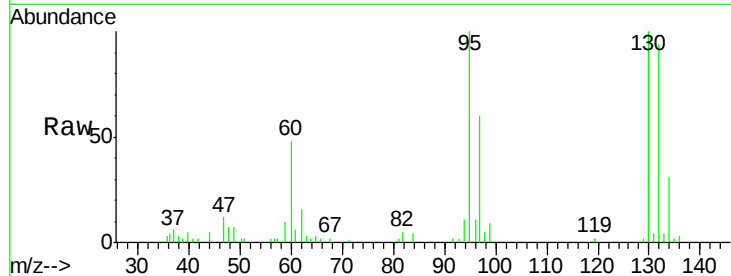
#34  
 Trichloroethene  
 Concen: 1.083 ug/L  
 RT: 5.94 min Scan# 1509  
 Delta R.T. 0.01 min  
 Lab File: VV017081.D  
 Acq: 24 Jun 2020 19:05

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 BFXK8

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 14057 |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 60.3  | 45.3  | 84.1  |
| 132      | 94.0  | 68.8  | 127.8 |
| 130      | 100.2 | 70.2  | 130.4 |

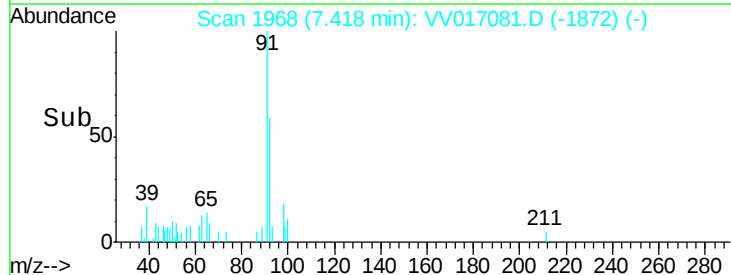
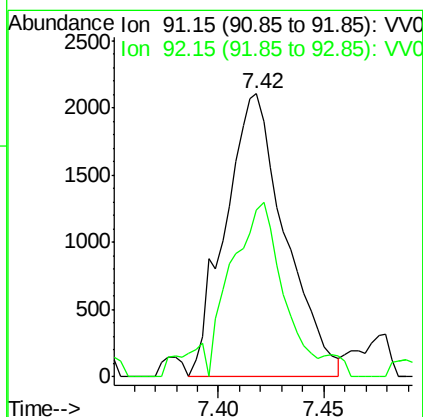
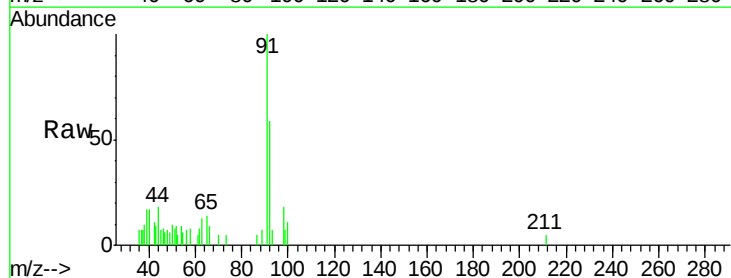
Manual Integrations  
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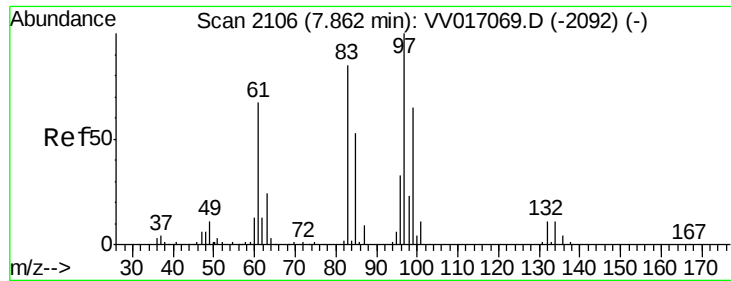
MMDadoda  
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#42  
 Toluene  
 Concen: 0.081 ug/L  
 RT: 7.42 min Scan# 1968  
 Delta R.T. 0.01 min  
 Lab File: VV017081.D  
 Acq: 24 Jun 2020 19:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 4153  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 59.2  | 39.9  | 74.1  |





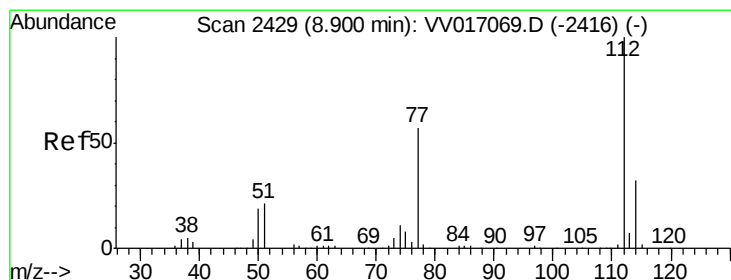
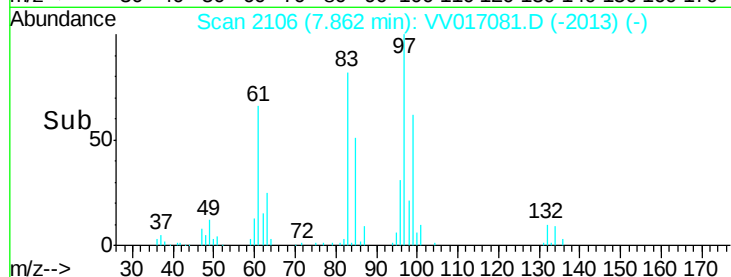
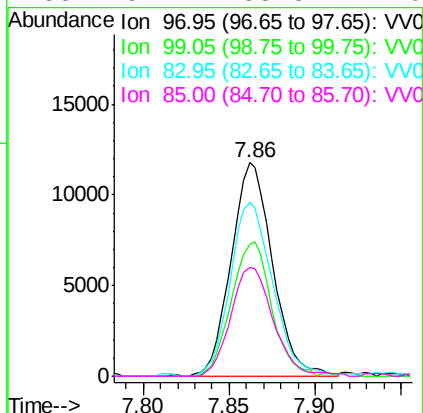
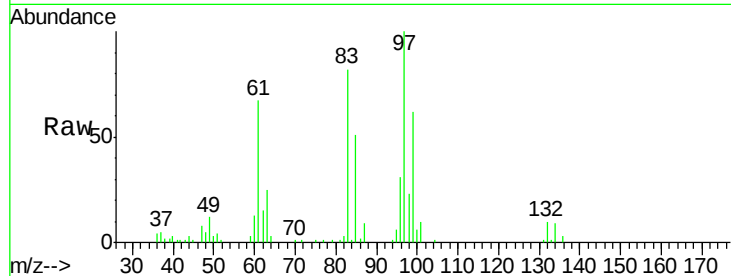
#47  
 1,1,2-Trichloroethane  
 Concen: 2.546 ug/L  
 RT: 7.86 min Scan# 2106  
 Delta R.T. -0.00 min  
 Lab File: VV017081.D  
 Acq: 24 Jun 2020 19:05

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFXK8

| Tot Ion | 97    | Resp  | 19817 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 97      | 100   |       |       |
| 99      | 61.8  | 43.6  | 81.0  |
| 83      | 81.6  | 57.4  | 106.6 |
| 85      | 51.2  | 38.8  | 72.0  |

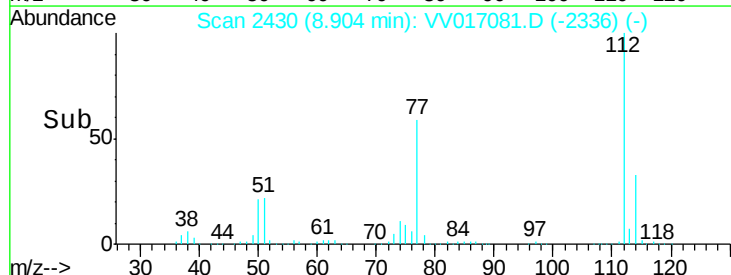
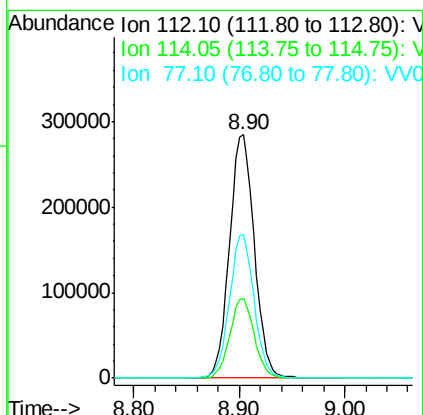
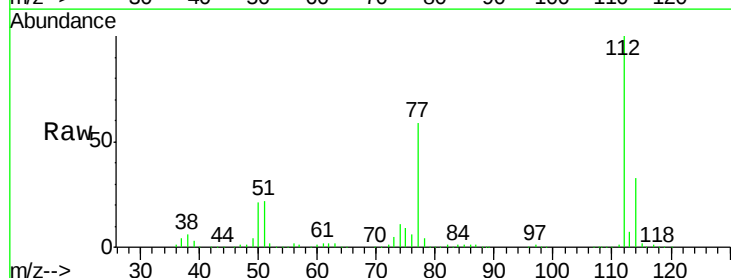
Manual Integrations  
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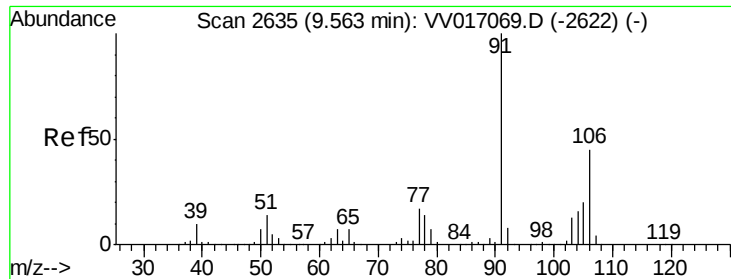
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 6/25/2020 3:38:03 PM



#53  
 Chlorobenzene  
 Concen: 14.436 ug/L  
 RT: 8.90 min Scan# 2430  
 Delta R.T. 0.00 min  
 Lab File: VV017081.D  
 Acq: 24 Jun 2020 19:05

| Tgt Ion | 112   | Resp  | 463743 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 112     | 100   |       |        |
| 114     | 32.8  | 22.0  | 41.0   |
| 77      | 58.8  | 46.0  | 69.0   |





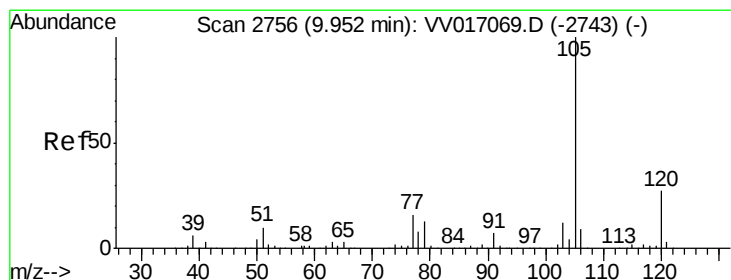
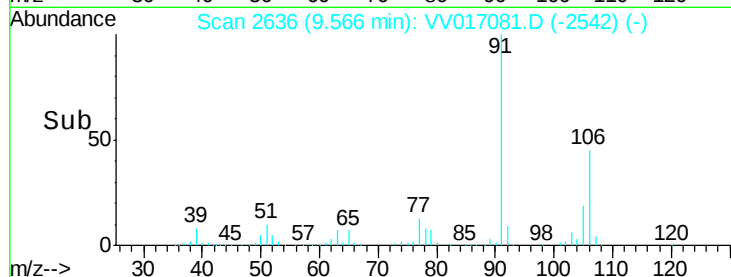
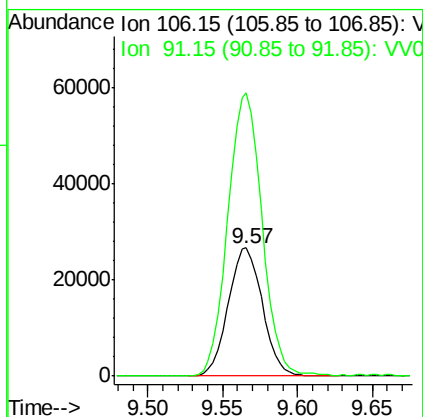
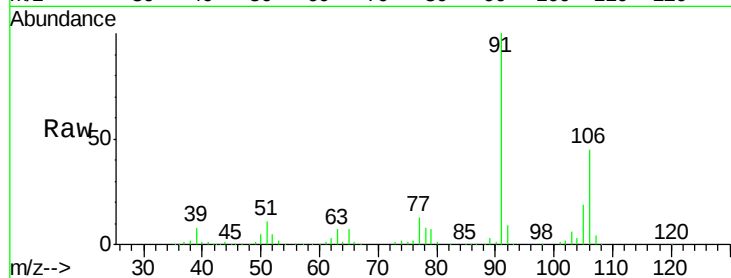
#56  
o-xylene  
Concen: 2.118 ug/L  
RT: 9.57 min Scan# 2636  
Delta R.T. 0.00 min  
Lab File: VV017081.D  
Acq: 24 Jun 2020 19:05

Instrument :  
MSVOA\_V  
ClientSampleId :  
BFXK8

Tot Ion:106 Resp: 42635  
Ion Ratio Lower Upper  
106 100  
91 221.0 153.6 285.2

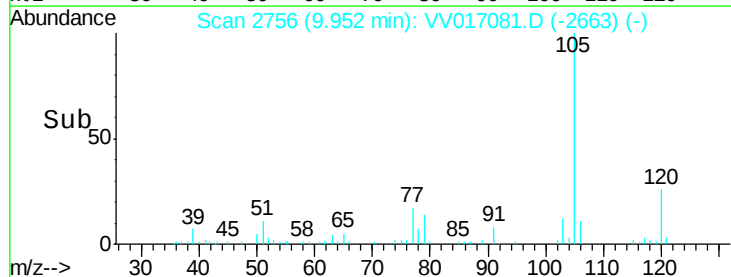
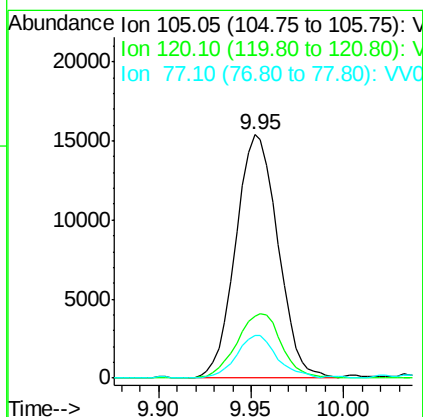
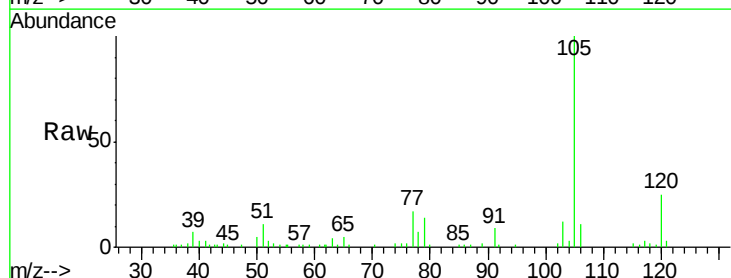
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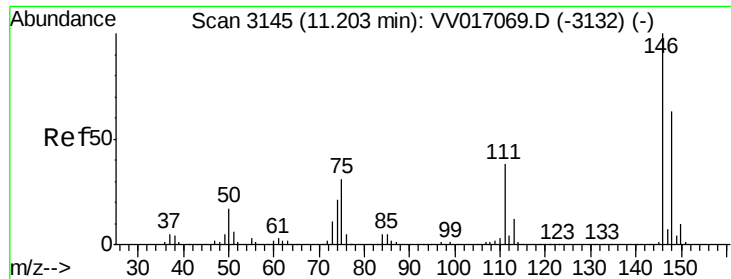
MMDadoda  
6/25/2020 3:38:03 PM



#58  
Isopropylbenzene  
Concen: 0.440 ug/L  
RT: 9.95 min Scan# 2756  
Delta R.T. -0.00 min  
Lab File: VV017081.D  
Acq: 24 Jun 2020 19:05

Tgt Ion:105 Resp: 24390  
Ion Ratio Lower Upper  
105 100  
120 27.9 21.2 31.8  
77 16.7 13.0 19.4





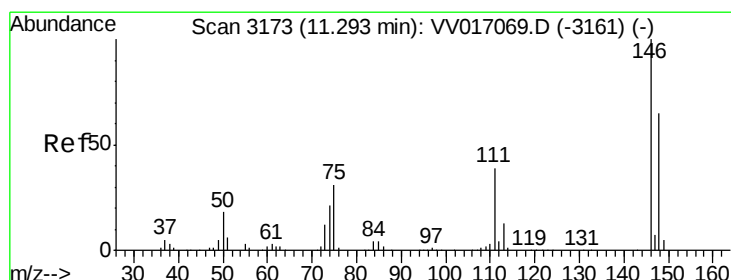
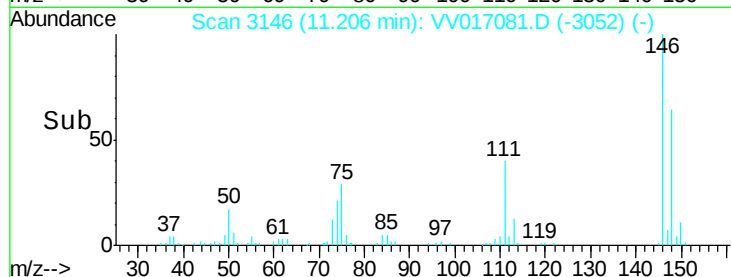
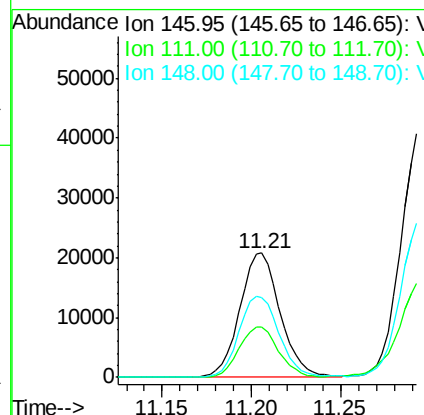
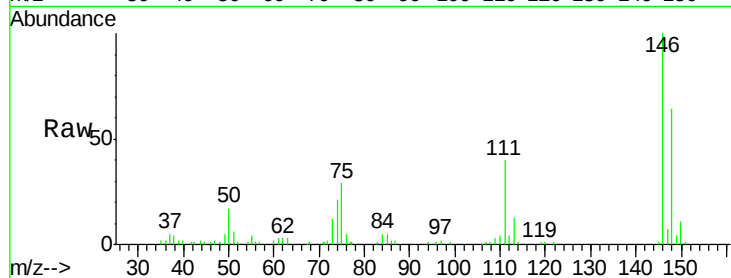
#63  
 1,3-Dichlorobenzene  
 Concen: 1.315 ug/L  
 RT: 11.21 min Scan# 3146  
 Delta R.T. 0.00 min  
 Lab File: VV017081.D  
 Acq: 24 Jun 2020 19:05

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFXK8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 40.2  | 29.2  | 54.2  |
| 148     | 64.2  | 44.9  | 83.5  |

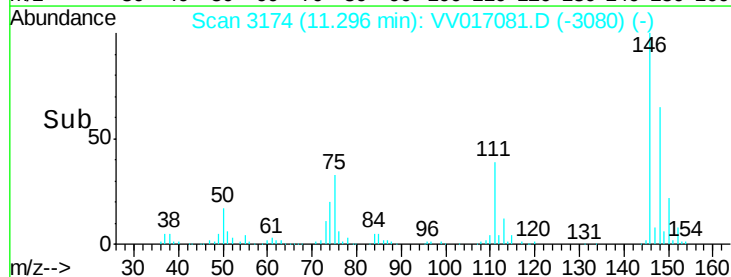
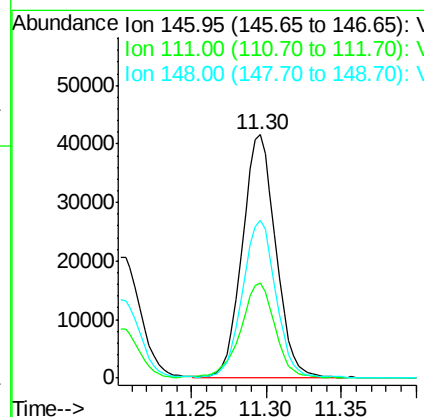
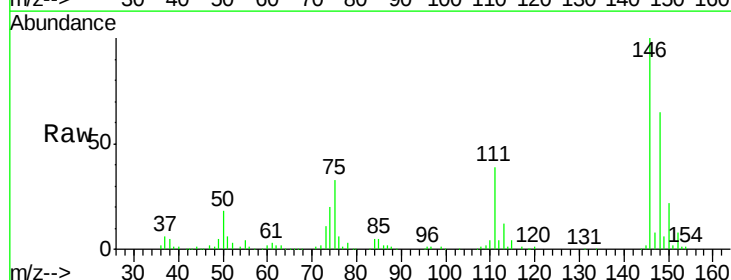
Manual Integrations  
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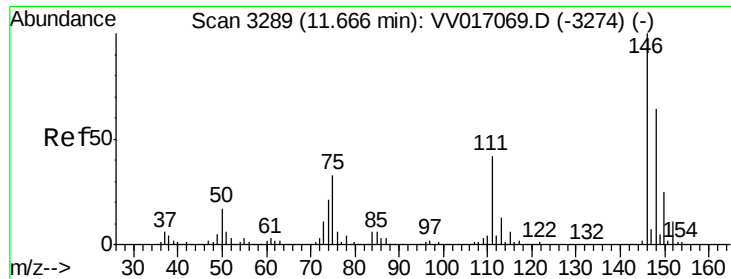
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 6/25/2020 3:38:03 PM



#64  
 1,4-Dichlorobenzene  
 Concen: 2.551 ug/L  
 RT: 11.30 min Scan# 3174  
 Delta R.T. 0.00 min  
 Lab File: VV017081.D  
 Acq: 24 Jun 2020 19:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.9  | 27.4  | 50.8  |
| 148     | 65.0  | 44.3  | 82.3  |





#66

1,2-Dichlorobenzene

Concen: 1.334 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV017081.D

Acq: 24 Jun 2020 19:05

Instrument :

MSVOA\_V

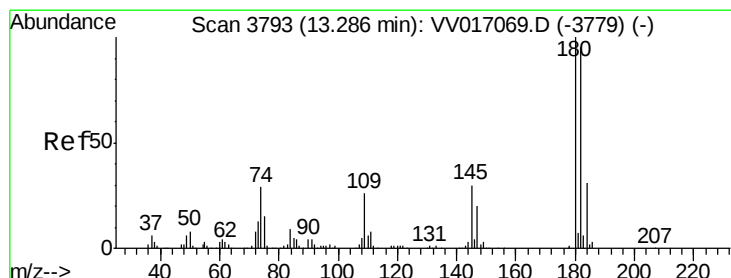
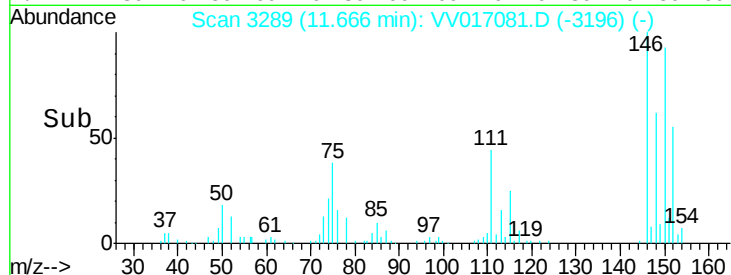
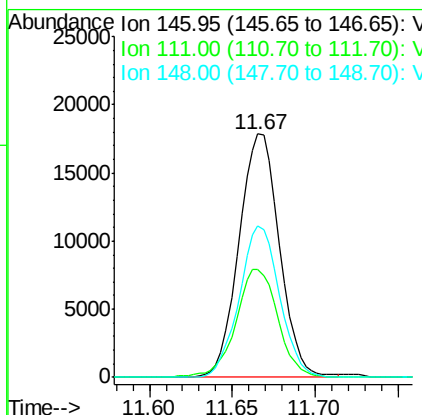
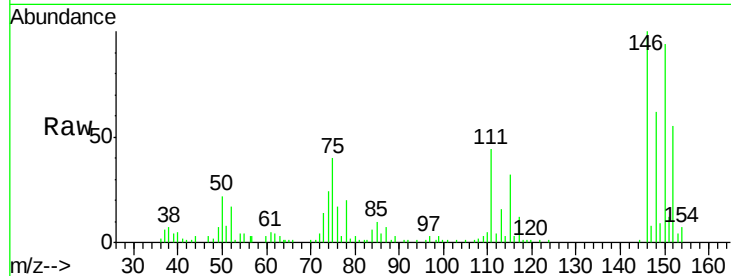
ClientSampleId :

BFXK8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 30309 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 44.2  | 34.4  | 51.6  |
| 148       | 62.2  | 49.9  | 74.9  |

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#69

1,2,4-trichlorobenzene

Concen: 0.360 ug/L

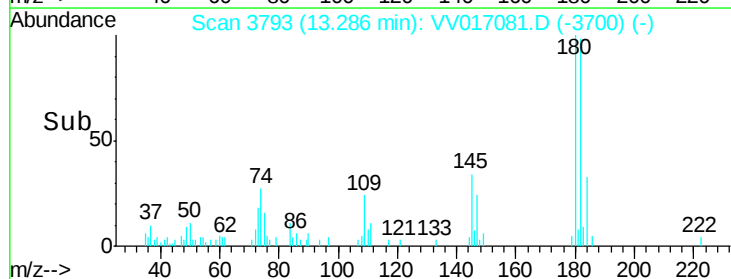
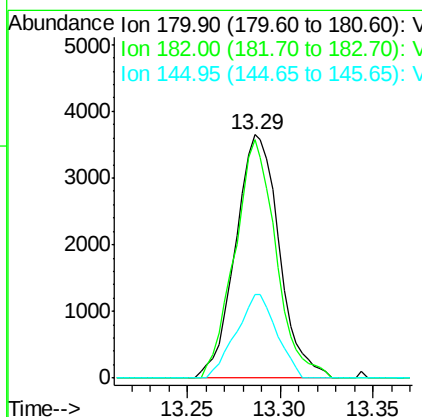
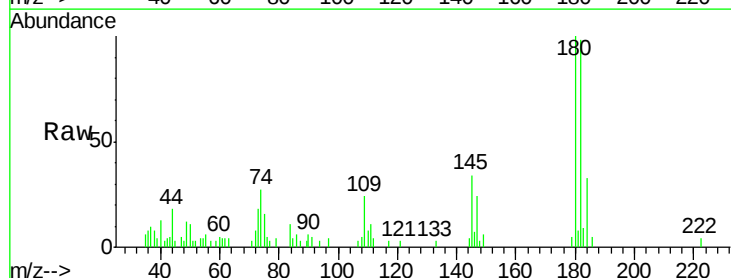
RT: 13.29 min Scan# 3793

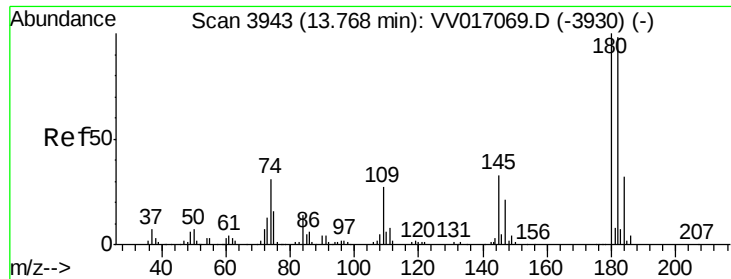
Delta R.T. -0.00 min

Lab File: VV017081.D

Acq: 24 Jun 2020 19:05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 5968  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 92.6  | 76.6  | 114.8 |
| 145       | 31.7  | 25.0  | 37.6  |





#71  
 1,2,3-Trichlorobenzene  
 Concen: 0.154 ug/L  
 RT: 13.77 min Scan# 3943  
 Delta R.T. -0.00 min  
 Lab File: VV017081.D  
 Acq: 24 Jun 2020 19:05

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFXK8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 180   | Resp: | 2082  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 92.6  | 77.4  | 116.0 |
| 145       | 38.3  | 25.9  | 38.9  |

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