

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102920\  
 Data File : VV019160.D  
 Acq On : 29 Oct 2020 21:12  
 Operator : SY/MD  
 Sample : MDL06  
 Misc : 5.0uL/5.0mL/100uL/5.0mL/MSVOA-V/MEOH  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL06

Manual Integrations  
 APPROVED

MMDadoda  
 11/2/2020 2:27:09 PM

Quant Time: Nov 01 15:06:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 30 05:31:22 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.64  | 114  | 222265   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.87  | 117  | 210106   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.27 | 152  | 107855   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 84169    | 47.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 95.30%  |
| 7) Chloroethane-d5             | 1.58    | 69    | 67201    | 48.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 97.94%  |
| 11) 1,1-Dichloroethene-d2      | 2.12    | 63    | 125324   | 37.30    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 74.60%  |
| 21) 2-Butanone-d5              | 3.91    | 46    | 111544   | 103.11   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.11% |
| 24) Chloroform-d               | 4.38    | 84    | 163317   | 49.71    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 99.42%  |
| 26) 1,2-Dichloroethane-d4      | 5.06    | 65    | 117822   | 51.46    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 102.92% |
| 32) Benzene-d6                 | 5.07    | 84    | 311833   | 52.32    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 104.64% |
| 36) 1,2-Dichloropropane-d6     | 6.09    | 67    | 95410    | 53.69    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 107.38% |
| 41) Toluene-d8                 | 7.34    | 98    | 284961   | 49.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 99.54%  |
| 43) trans-1,3-Dichloropropene- | 7.64    | 79    | 52661    | 51.21    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 102.42% |
| 47) 2-Hexanone-d5              | 8.11    | 63    | 81991    | 106.54   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 106.54% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.23   | 84    | 123019   | 51.34    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 102.68% |
| 64) 1,2-Dichlorobenzene-d4     | 11.65   | 152   | 120431   | 53.15    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 106.30% |

## Target Compounds

|                                |      |     |       |              | Ovalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.14 | 85  | 3525  | 1.806 ug/L   | 99     |
| 3) Chloromethane               | 1.25 | 50  | 3806  | 2.148 ug/L   | 91     |
| 5) Vinyl chloride              | 1.32 | 62  | 4341  | 2.392 ug/L # | 65     |
| 6) Bromomethane                | 1.53 | 94  | 2765  | 2.275 ug/L   | 95     |
| 8) Chloroethane                | 1.60 | 64  | 2676  | 2.372 ug/L   | 92     |
| 9) Trichlorofluoromethane      | 1.77 | 101 | 5773  | 1.909 ug/L   | 99     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13 | 101 | 3516  | 2.416 ug/L   | 89     |
| 12) 1,1-Dichloroethene         | 2.13 | 96  | 3989  | 2.799 ug/L # | 1      |
| 13) Acetone                    | 2.19 | 43  | 3793m | 3.774 ug/L   |        |
| 14) Carbon disulfide           | 2.31 | 76  | 9457  | 2.087 ug/L   | 98     |
| 15) Methyl Acetate             | 2.45 | 43  | 3661  | 2.260 ug/L # | 90     |
| 16) Methylene chloride         | 2.53 | 84  | 4049  | 2.502 ug/L   | 91     |
| 17) trans-1,2-Dichloroethene   | 2.78 | 96  | 3101  | 2.026 ug/L   | 88     |
| 18) Methyl tert-butyl Ether    | 2.78 | 73  | 10543 | 2.057 ug/L   | 98     |
| 19) 1,1-Dichloroethane         | 3.21 | 63  | 6096  | 2.137 ug/L   | 96     |
| 20) cis-1,2-Dichloroethene     | 3.94 | 96  | 3443  | 2.049 ug/L   | 77     |
| 22) 2-Butanone                 | 4.03 | 43  | 4186m | 3.824 ug/L   |        |

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 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL06

Manual Integrations  
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 11/2/2020 2:27:09 PM

Quant Time: Nov 01 15:06:30 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102920WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Oct 30 05:31:22 2020  
 Response via : Initial Calibration

| Internal Standards              | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|---------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane          | 4.29  | 128  | 1665     | 1.847 | uq/L # | 92       |
| 25) Chloroform                  | 4.41  | 83   | 8026     | 2.604 | uq/L   | 96       |
| 27) 1,2-Dichloroethane          | 5.17  | 62   | 5620     | 2.142 | uq/L   | 96       |
| 29) Cyclohexane                 | 4.70  | 56   | 3833     | 1.634 | uq/L # | 83       |
| 30) 1,1,1-Trichloroethane       | 4.64  | 97   | 5616     | 1.972 | uq/L   | 96       |
| 31) Carbon tetrachloride        | 4.86  | 117  | 4655m    | 1.844 | uq/L   |          |
| 33) Benzene                     | 5.13  | 78   | 13148    | 2.170 | uq/L   | 100      |
| 34) Trichloroethene             | 5.95  | 95   | 3528     | 2.126 | uq/L   | 97       |
| 35) Methylcyclohexane           | 6.15  | 83   | 4118     | 1.838 | uq/L # | 86       |
| 37) 1,2-Dichloropropane         | 6.20  | 63   | 3597     | 2.391 | uq/L # | 85       |
| 38) Bromodichloromethane        | 6.54  | 83   | 4633     | 2.070 | uq/L   | 96       |
| 39) cis-1,3-Dichloropropene     | 7.05  | 75   | 5299     | 2.132 | uq/L   | 98       |
| 40) 4-Methyl-2-pentanone        | 7.25  | 43   | 8336     | 4.017 | uq/L   | 96       |
| 42) Toluene                     | 7.41  | 91   | 17519    | 2.638 | uq/L   | 99       |
| 44) trans-1,3-Dichloropropene   | 7.68  | 75   | 4940     | 1.911 | uq/L   | 89       |
| 45) 1,1,2-Trichloroethane       | 7.87  | 97   | 3033     | 2.010 | uq/L   | 97       |
| 46) Tetrachloroethene           | 8.00  | 164  | 2746     | 1.938 | uq/L   | 94       |
| 48) 2-Hexanone                  | 8.17  | 43   | 8569     | 5.195 | uq/L # | 86       |
| 49) Dibromochloromethane        | 8.27  | 129  | 3704     | 2.028 | uq/L   | 99       |
| 50) 1,2-Dibromoethane           | 8.38  | 107  | 3428     | 2.129 | uq/L # | 98       |
| 51) Chlorobenzene               | 8.90  | 112  | 8841     | 2.031 | uq/L   | 94       |
| 52) Ethylbenzene                | 9.04  | 91   | 13746    | 1.878 | uq/L   | 98       |
| 53) m,p-Xylene                  | 9.16  | 106  | 5007     | 1.812 | uq/L   | 98       |
| 54) o-xylene                    | 9.57  | 106  | 4819     | 1.816 | uq/L   | 97       |
| 55) Styrene                     | 9.59  | 104  | 7792     | 1.657 | uq/L   | 87       |
| 56) Isopropylbenzene            | 9.95  | 105  | 11584    | 1.624 | uq/L   | 99       |
| 58) 1,1,1,2,2-Tetrachloroethane | 10.26 | 83   | 5288     | 2.302 | uq/L # | 97       |
| 59) 1,2,3-Trichloropropane      | 10.30 | 75   | 4192     | 2.132 | uq/L   | 99       |
| 61) Bromoform                   | 9.76  | 173  | 2849     | 2.141 | uq/L # | 93       |
| 62) 1,3-Dichlorobenzene         | 11.21 | 146  | 6677     | 1.963 | uq/L   | 97       |
| 63) 1,4-Dichlorobenzene         | 11.29 | 146  | 7767     | 2.197 | uq/L   | 90       |
| 65) 1,2-Dichlorobenzene         | 11.67 | 146  | 7637     | 2.266 | uq/L # | 88       |
| 66) 1,2-Dibromo-3-chloropropan  | 12.45 | 75   | 1023     | 1.774 | uq/L   | 96       |
| 67) 1,3,5-Trichlorobenzene      | 12.67 | 180  | 4913     | 1.962 | uq/L   | 98       |
| 68) 1,2,4-trichlorobenzene      | 13.29 | 180  | 4599     | 1.960 | uq/L   | 93       |
| 69) Naphthalene                 | 13.53 | 128  | 10270    | 1.563 | uq/L # | 89       |
| 70) 1,2,3-Trichlorobenzene      | 13.77 | 180  | 3969     | 1.729 | uq/L   | 88       |

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

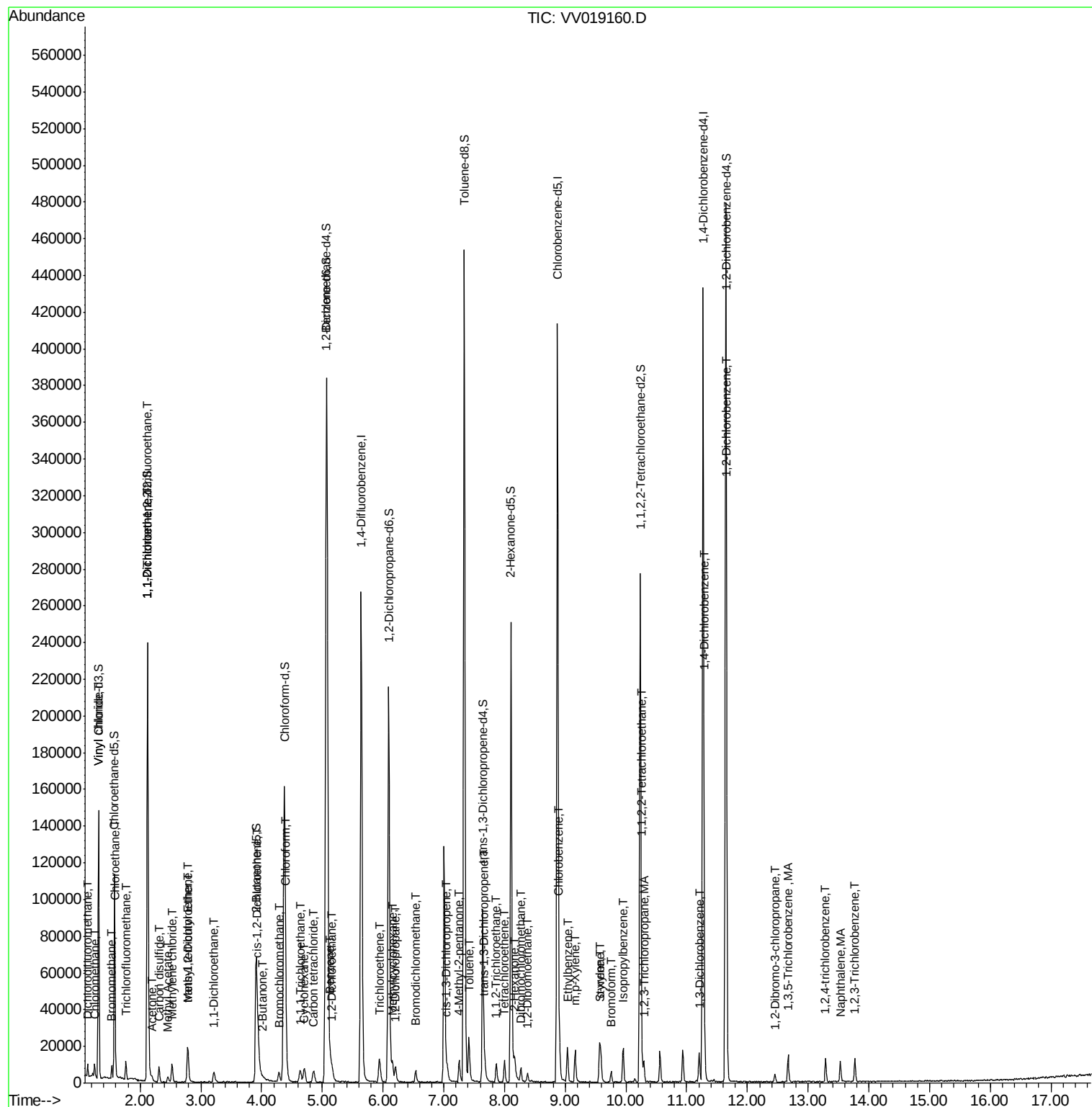
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Data File : VV019160.D  
Acq On : 29 Oct 2020 21:12  
Operator : SY/MD  
Sample : MDL06  
Misc : 5.0µ/5.0mL/100uL/5.0mL/MSVOA-V/MEOH  
ALS Vial : 18 Sample Multiplier: 1

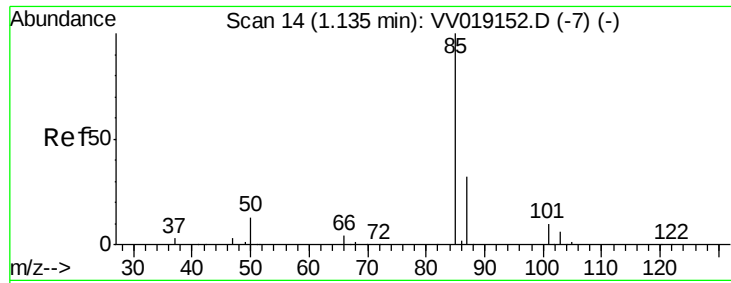
Instrument :  
MSVOA\_V  
ClientSampleID :  
MDL06

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Quant Time: Nov 01 15:06:30 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM102920WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Oct 30 05:31:22 2020  
Response via : Initial Calibration





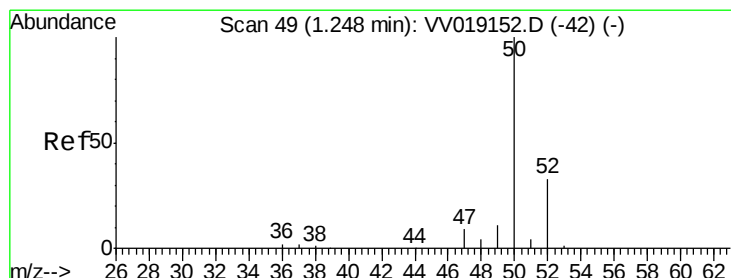
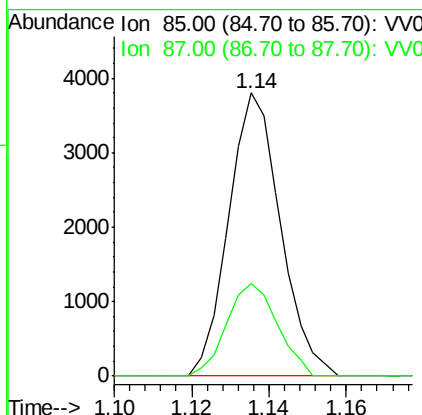
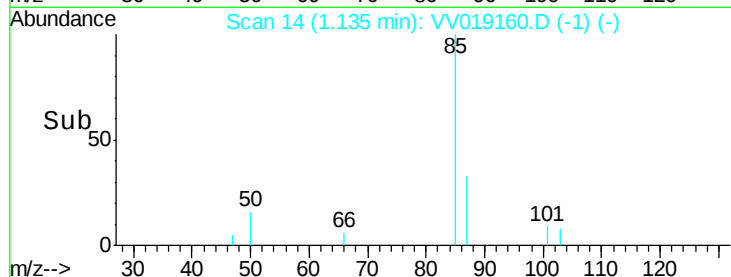
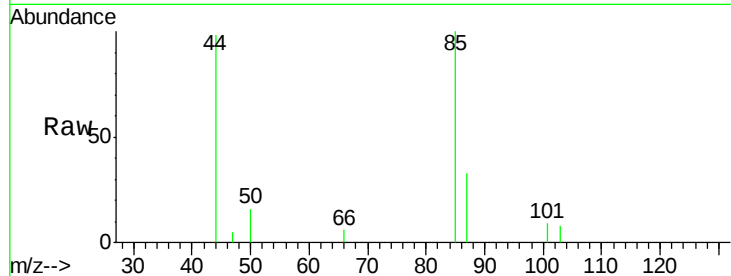
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 Dichlorodifluoromethane  
 Concen: 1.806 ug/L  
 RT: 1.14 min Scan# 14  
 Delta R.T. -0.00 min  
 Lab File: VV019160.D  
 Acq: 29 Oct 2020 21:12

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 85      | 100   |       |       |
| 87      | 32.0  | 25.3  | 37.9  |

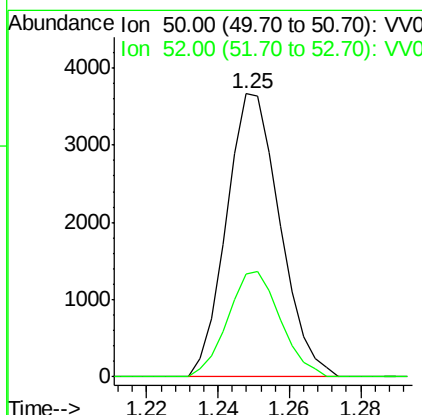
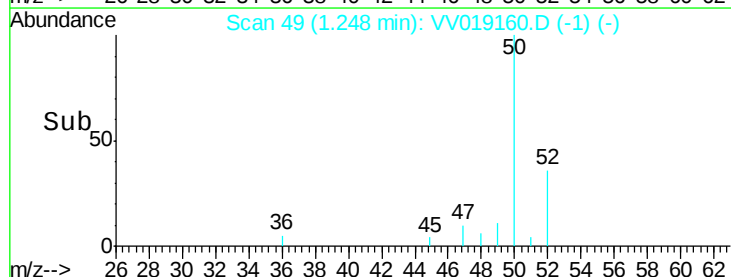
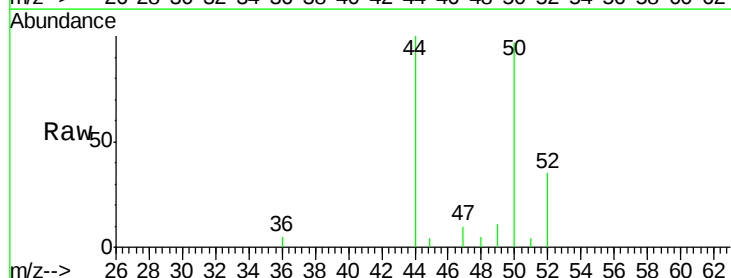
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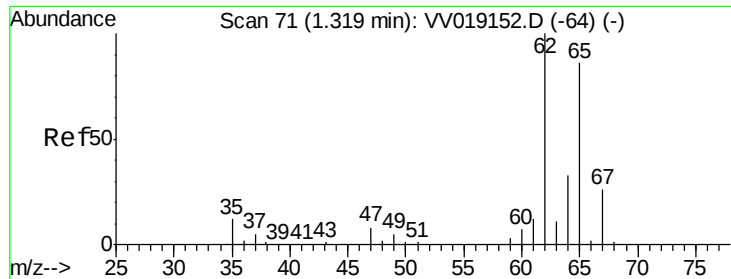
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#3  
 Chloromethane  
 Concen: 2.148 ug/L  
 RT: 1.25 min Scan# 49  
 Delta R.T. -0.00 min  
 Lab File: VV019160.D  
 Acq: 29 Oct 2020 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 50      | 100   |       |       |
| 52      | 36.3  | 22.1  | 41.1  |





#5

Vinyl chloride

Concen: 2.392 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

Instrument :

MSVOA\_V

ClientSampleID :

MDL06

Tot Ion: 62 Resp: 4341

Ion Ratio Lower Upper

62 100

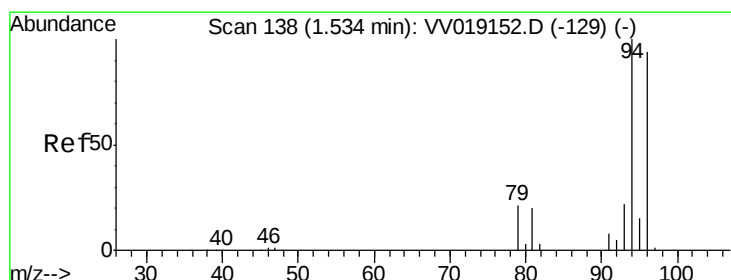
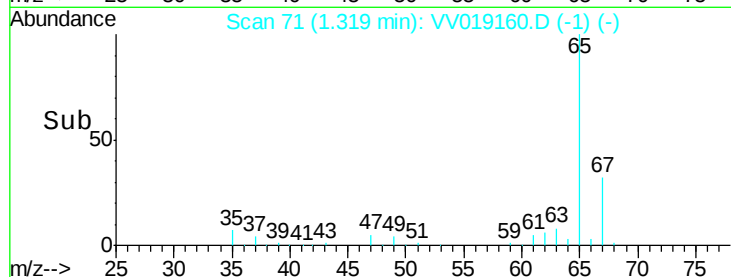
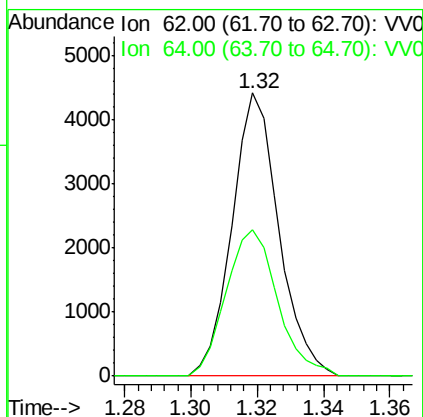
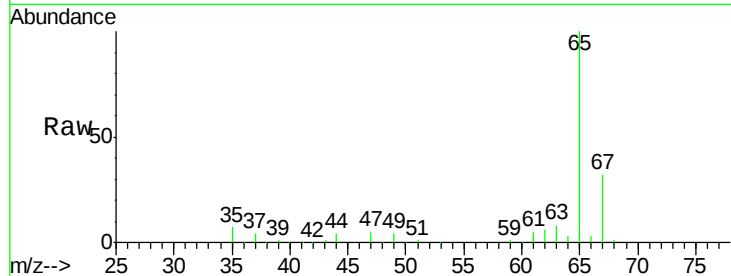
64 51.9 22.7 42.3#

Manual Integrations

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#6

Bromomethane

Concen: 2.275 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV019160.D

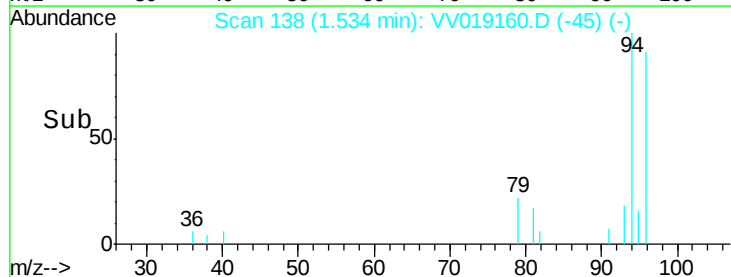
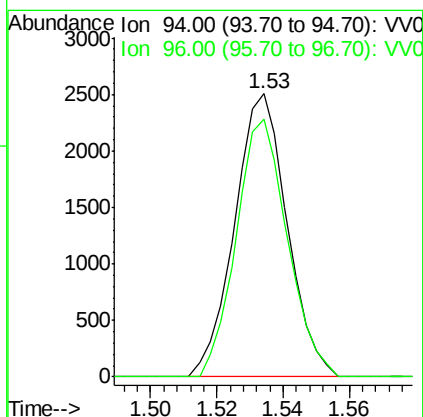
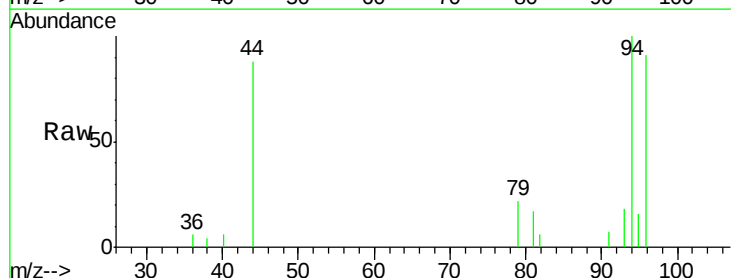
Acq: 29 Oct 2020 21:12

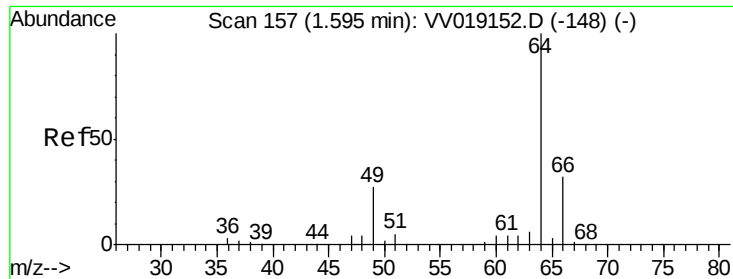
Tgt Ion: 94 Resp: 2765

Ion Ratio Lower Upper

94 100

96 90.9 67.0 124.4





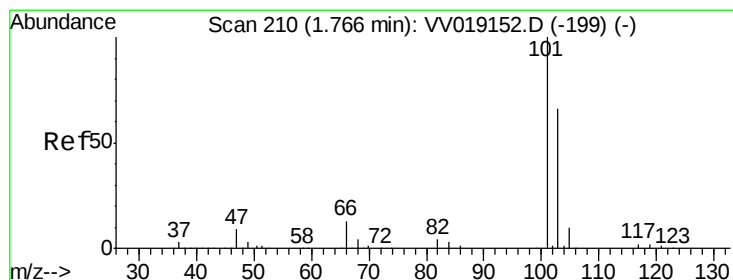
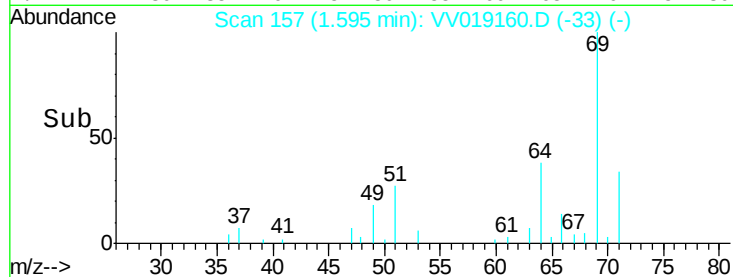
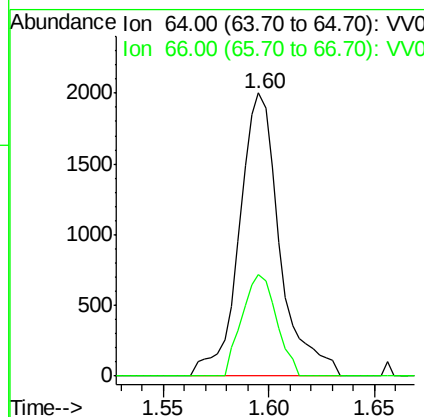
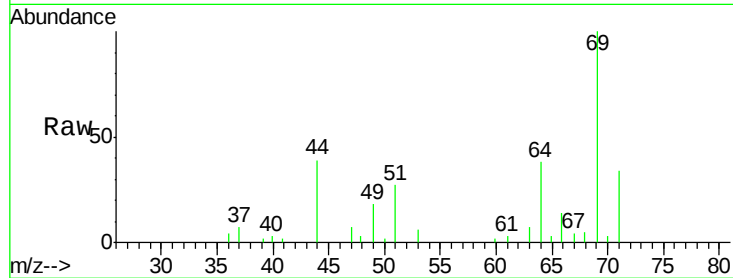
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Chloroethane  
Concen: 2.372 ug/L  
RT: 1.60 min Scan# 157  
Delta R.T. -0.00 min  
Lab File: VV019160.D  
Acq: 29 Oct 2020 21:12

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 64      | 100   |       |       |
| 66      | 35.8  | 22.0  | 40.8  |

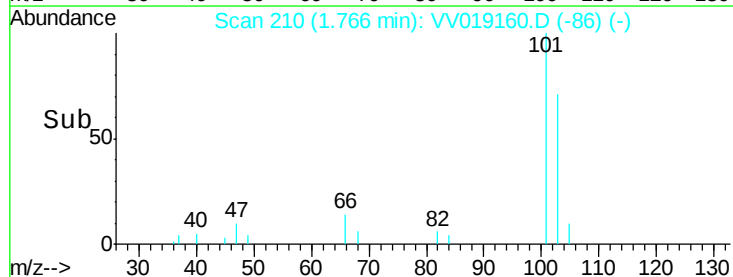
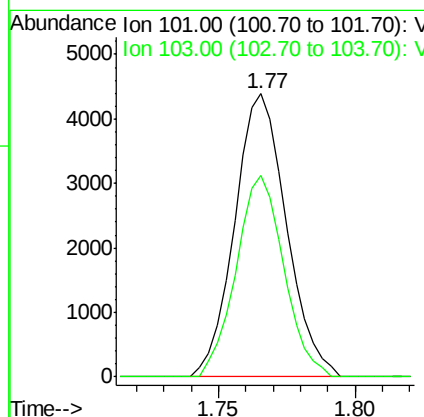
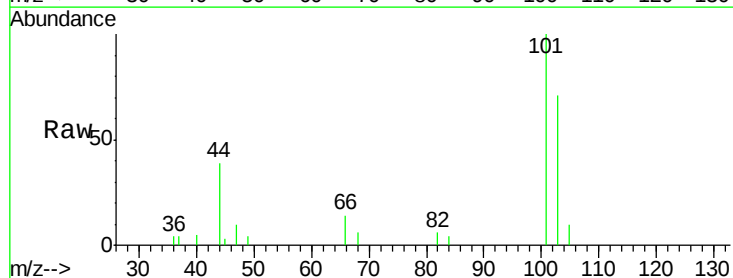
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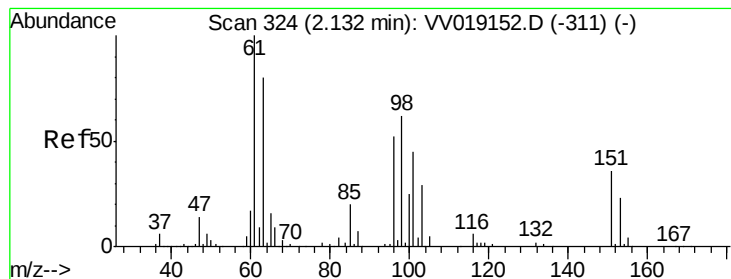
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#9  
Trichlorofluoromethane  
Concen: 1.909 ug/L  
RT: 1.77 min Scan# 210  
Delta R.T. -0.00 min  
Lab File: VV019160.D  
Acq: 29 Oct 2020 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 65.4  | 51.9  | 77.9  |





#10

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

Concen: 2.416 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

Instrument :

MSVOA\_V

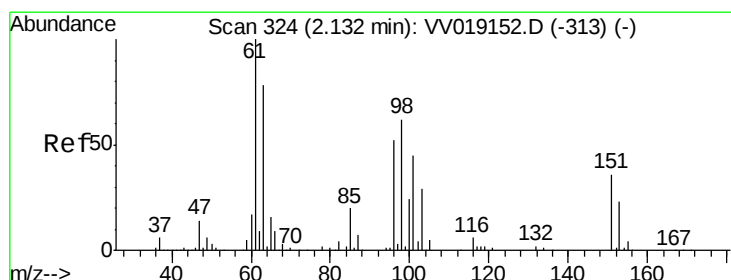
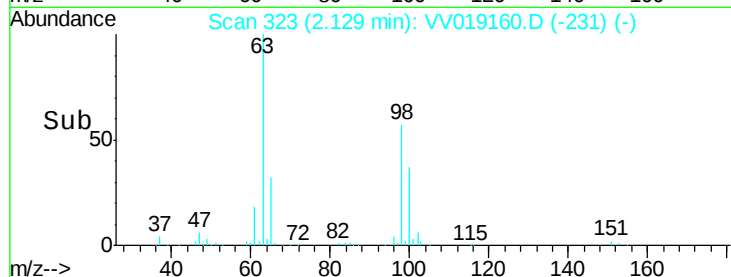
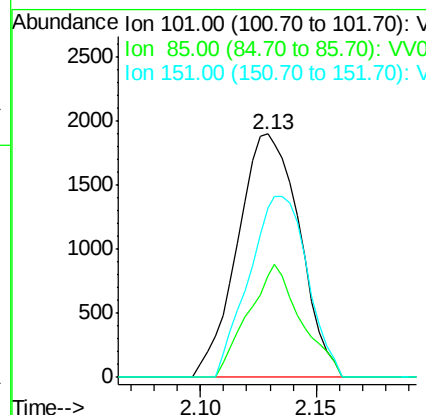
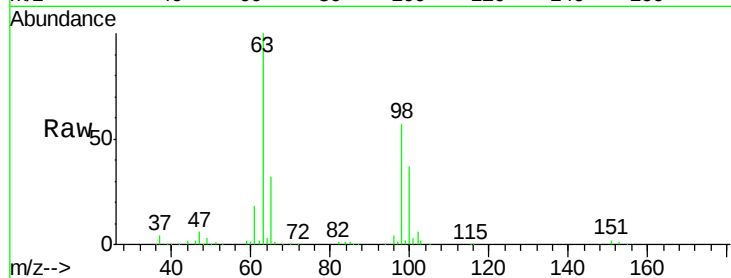
ClientSampled :

MDL06

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 101   | Resp: | 3516 |
| Ion Ratio | Lower | Upper |      |
| 101       | 100   |       |      |
| 85        | 39.5  | 36.1  | 54.1 |
| 151       | 70.2  | 65.0  | 97.4 |

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#12

1,1-Dichloroethene

Concen: 2.799 ug/L

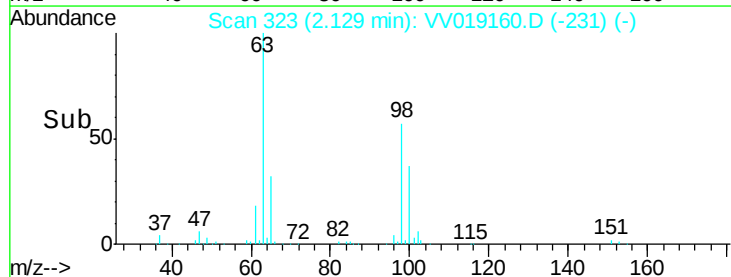
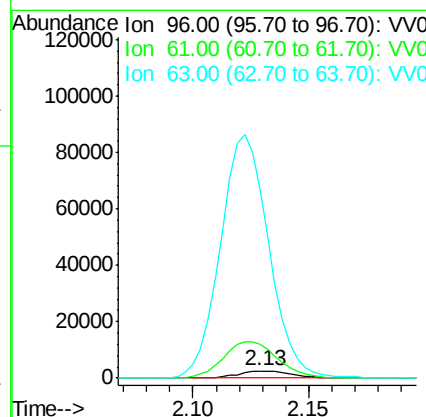
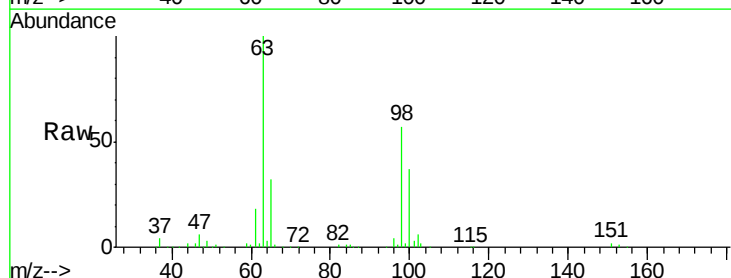
RT: 2.13 min Scan# 323

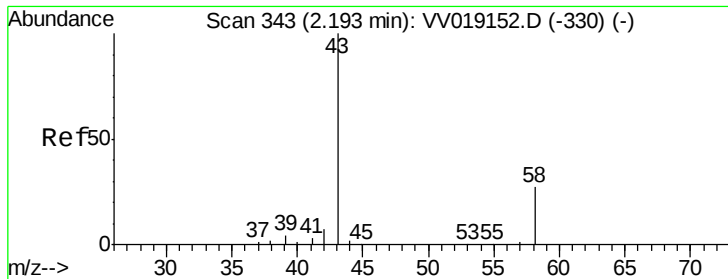
Delta R.T. -0.00 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

|           |        |       |        |
|-----------|--------|-------|--------|
| Tgt Ion:  | 96     | Resp: | 3989   |
| Ion Ratio | Lower  | Upper |        |
| 96        | 100    |       |        |
| 61        | 470.5  | 132.6 | 246.2# |
| 63        | 2666.1 | 108.4 | 201.4# |





#13

Acetone

Concen: 3.774 ug/L m

RT: 2.19 min Scan# 342

Delta R.T. -0.00 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

Instrument :

MSVOA\_V

ClientSampleId :

MDL06

Tot Ion: 43 Resp: 3793

Ion Ratio Lower Upper

43 100

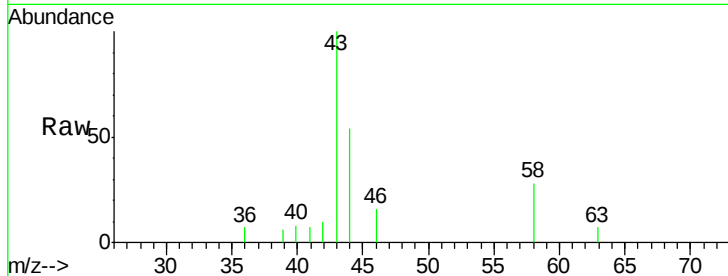
58 21.0 0.0 59.4

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Abundance Ion 43.00 (42.70 to 43.70): VV019160.D (-250) (-)

Ion 58.00 (57.70 to 58.70): VV019160.D (-250) (-)

2.19

1500

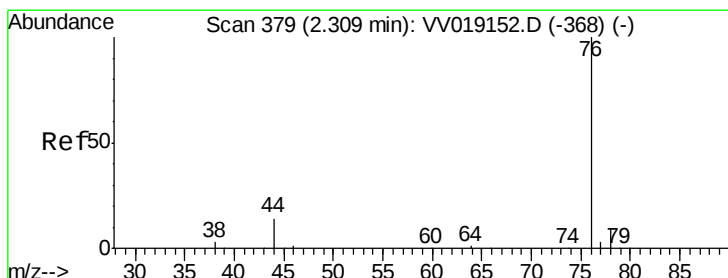
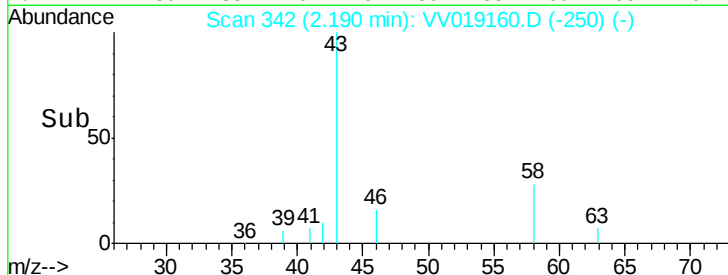
1000

500

0

Time-->

2.15 2.20 2.25



#14

Carbon disulfide

Concen: 2.087 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV019160.D

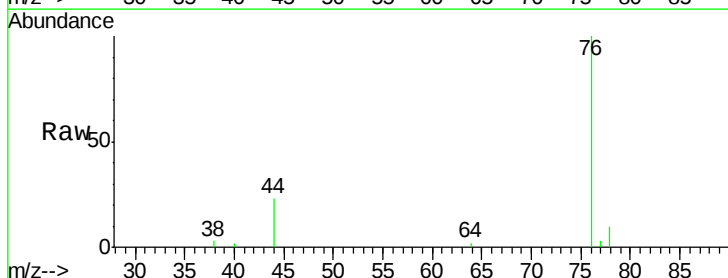
Acq: 29 Oct 2020 21:12

Tgt Ion: 76 Resp: 9457

Ion Ratio Lower Upper

76 100

78 9.9 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV019160.D (-286) (-)

Ion 78.00 (77.70 to 78.70): VV019160.D (-286) (-)

2.31

6000

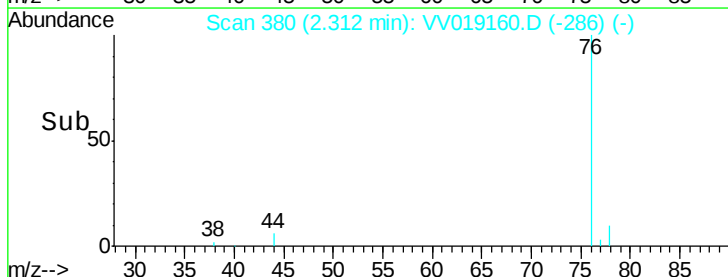
4000

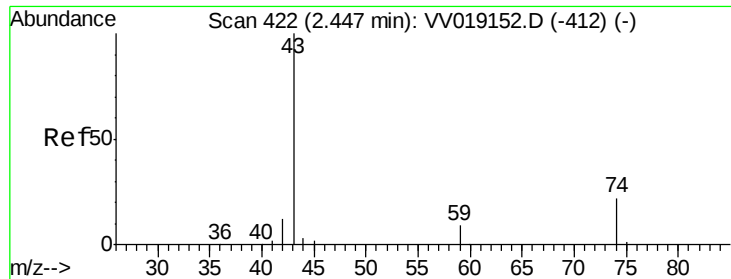
2000

0

Time-->

2.25 2.30 2.35





#15

Methyl Acetate

Concen: 2.260 ug/L

RT: 2.45 min Scan# 424

Delta R.T. 0.01 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

Instrument :

MSVOA\_V

ClientSampled :

MDL06

Tot Ion: 43 Resp: 3661

Ion Ratio Lower Upper

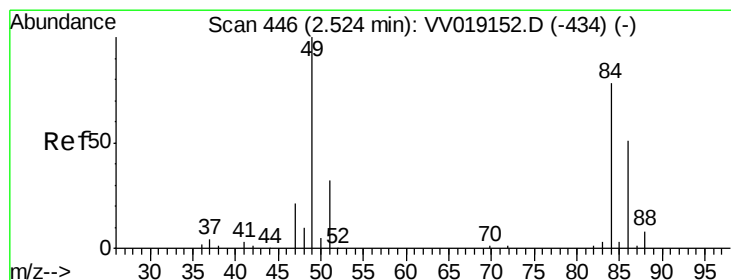
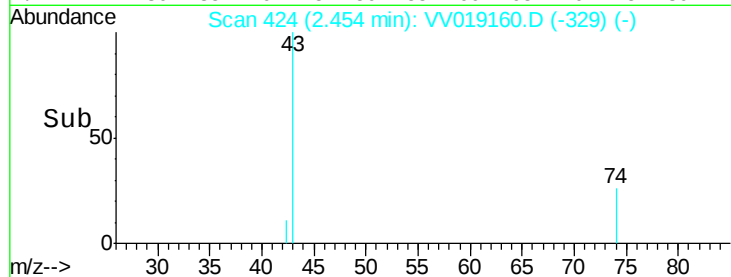
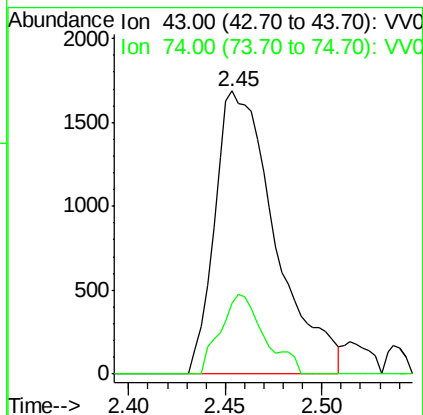
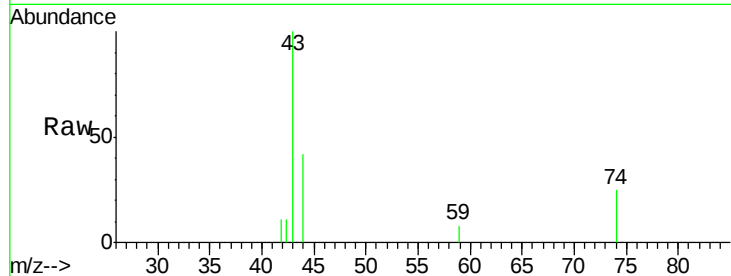
43 100

74 18.4 18.4 27.6#

Manual Integrations  
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#16

Methylene chloride

Concen: 2.502 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.00 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

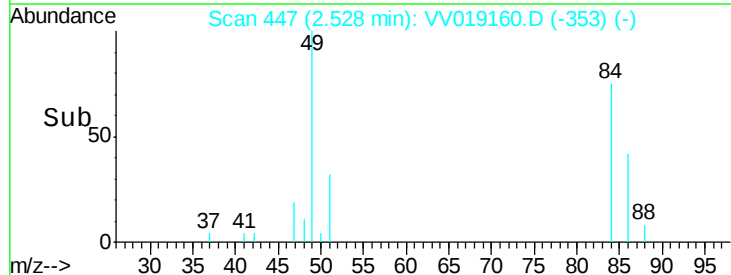
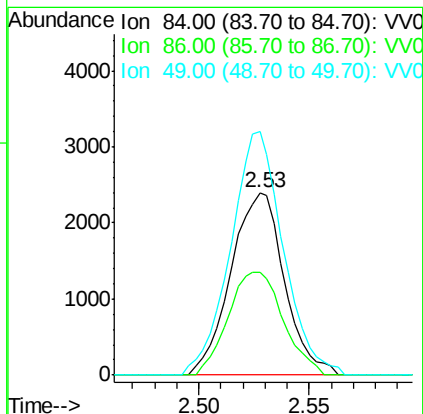
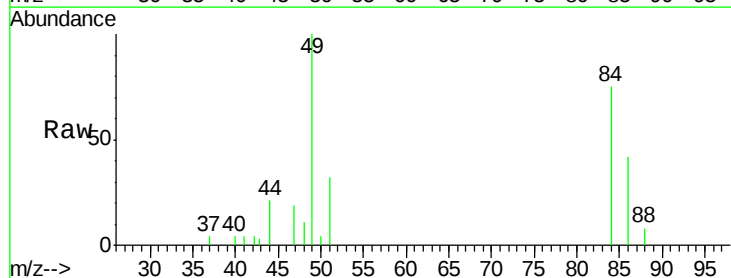
Tgt Ion: 84 Resp: 4049

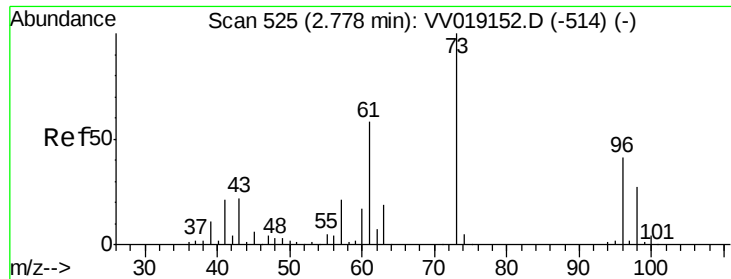
Ion Ratio Lower Upper

84 100

86 56.1 46.0 85.4

49 133.7 87.8 163.2





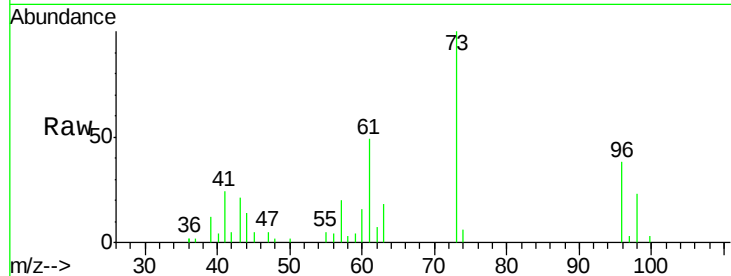
#17  
trans-1,2-Dichloroethene  
Concen: 2.026 ug/L  
RT: 2.78 min Scan# 526  
Delta R.T. 0.00 min  
Lab File: VV019160.D  
Acq: 29 Oct 2020 21:12

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 127.9 | 102.4 | 190.2 |
| 98      | 61.2  | 45.9  | 85.3  |

Manual Integrations  
APPROVED

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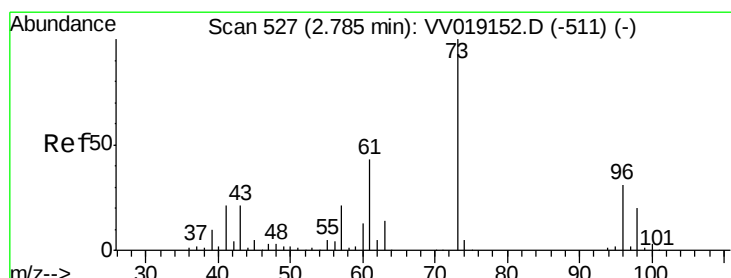
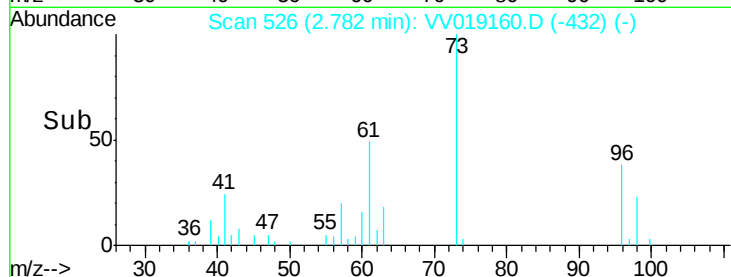
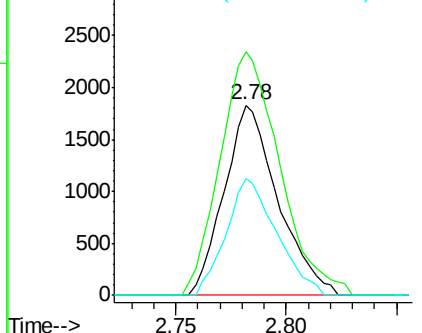


Abundance

Ion 96.00 (95.70 to 96.70): VV019160.D (-432) (-)

Ion 61.00 (60.70 to 61.70): VV019160.D (-432) (-)

Ion 98.00 (97.70 to 98.70): VV019160.D (-432) (-)



#18  
Methyl tert-butyl Ether  
Concen: 2.057 ug/L  
RT: 2.78 min Scan# 527  
Delta R.T. -0.00 min  
Lab File: VV019160.D  
Acq: 29 Oct 2020 21:12

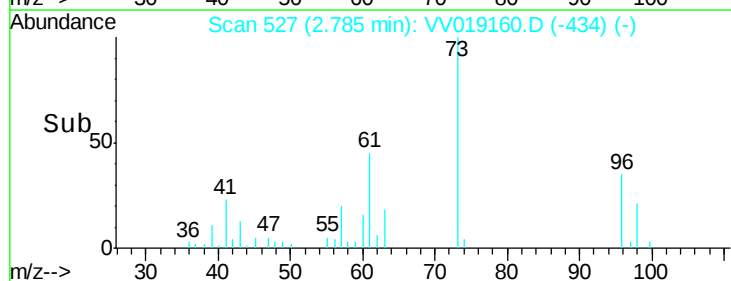
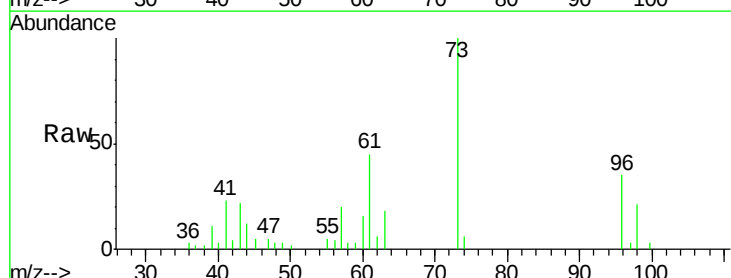
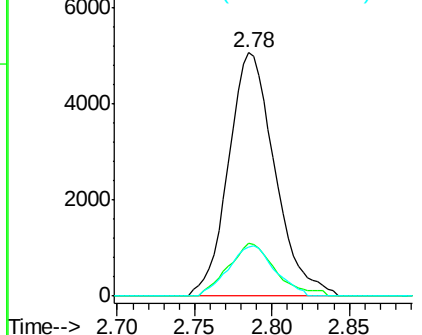
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 43      | 21.4  | 17.9  | 26.9  |
| 57      | 20.5  | 17.1  | 25.7  |

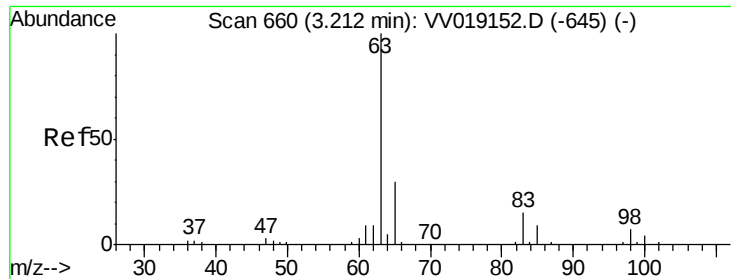
Abundance

Ion 73.00 (72.70 to 73.70): VV019160.D (-434) (-)

Ion 43.00 (42.70 to 43.70): VV019160.D (-434) (-)

Ion 57.00 (56.70 to 57.70): VV019160.D (-434) (-)





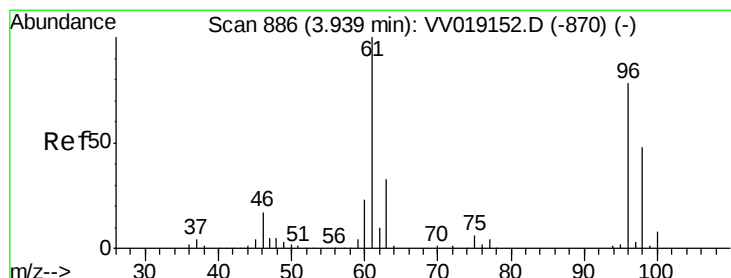
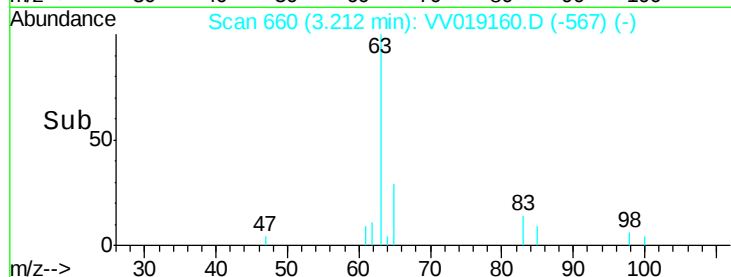
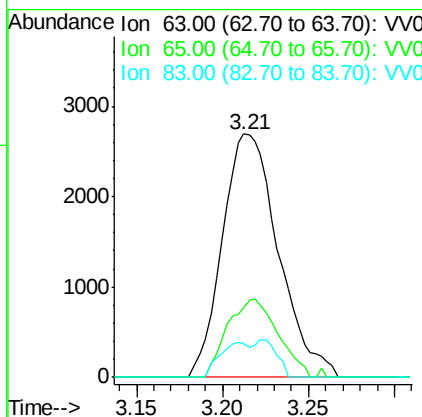
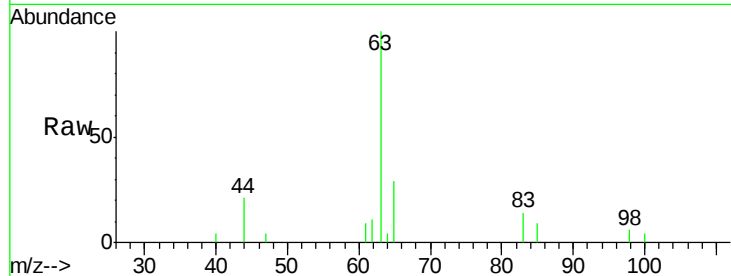
#19  
 1,1-Dichloroethane  
 Concen: 2.137 ug/L  
 RT: 3.21 min Scan# 660  
 Delta R.T. -0.00 min  
 Lab File: VV019160.D  
 Acq: 29 Oct 2020 21:12

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 28.6  | 22.0  | 40.8  |
| 83      | 13.7  | 9.6   | 17.8  |

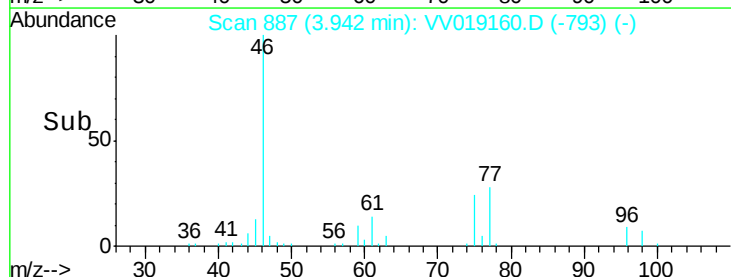
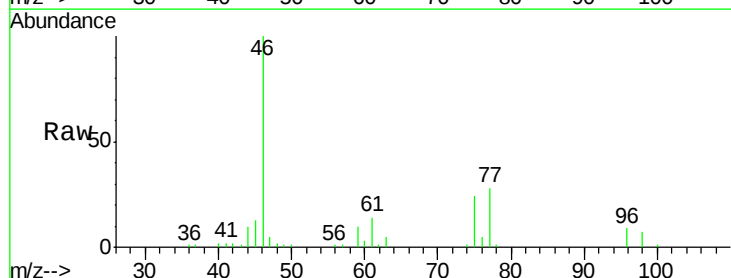
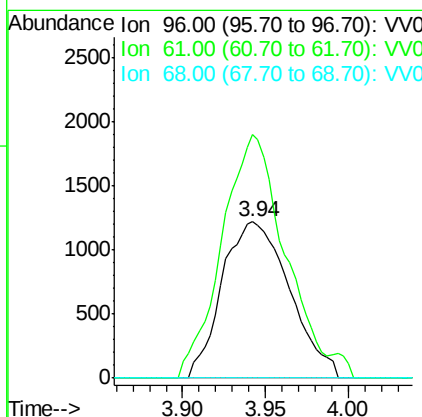
Manual Integrations  
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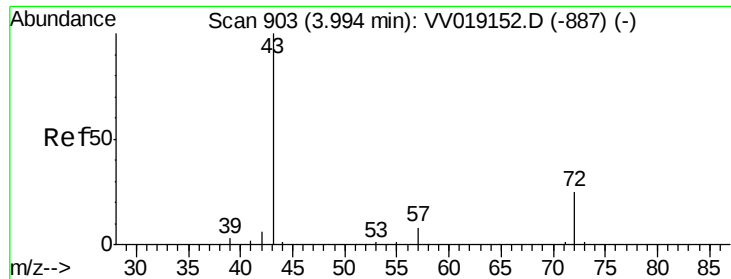
MMDadoda  
 11/2/2020 2:27:09 PM



#20  
 cis-1,2-Dichloroethene  
 Concen: 2.049 ug/L  
 RT: 3.94 min Scan# 887  
 Delta R.T. 0.00 min  
 Lab File: VV019160.D  
 Acq: 29 Oct 2020 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 156.1 | 90.7  | 168.5 |
| 68      | 0.0   | 0.0   | 0.0   |





#22

2-Butanone

Concen: 3.824 ug/L m

RT: 4.03 min Scan# 914

Delta R.T. 0.04 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

Instrument :

MSVOA\_V

ClientSampleId :

MDL06

Tot Ion: 43 Resp: 4186

Ion Ratio Lower Upper

43 100

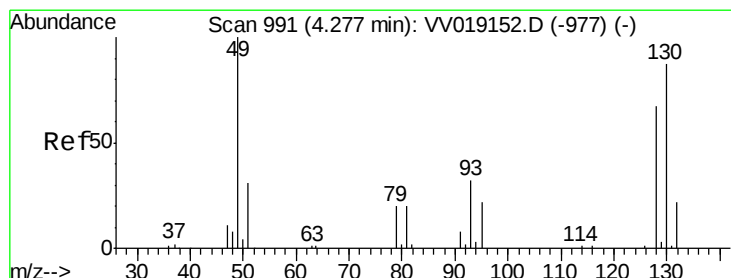
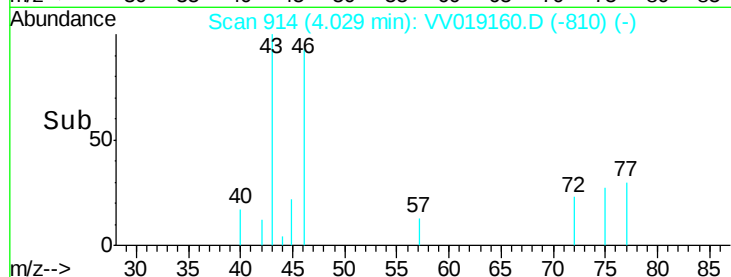
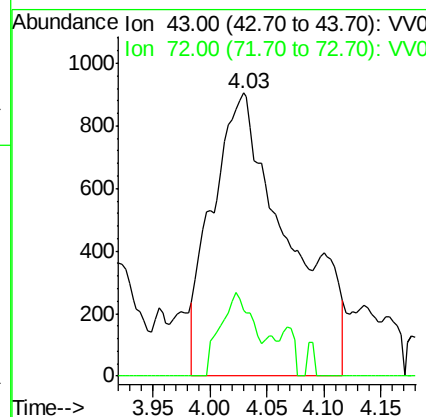
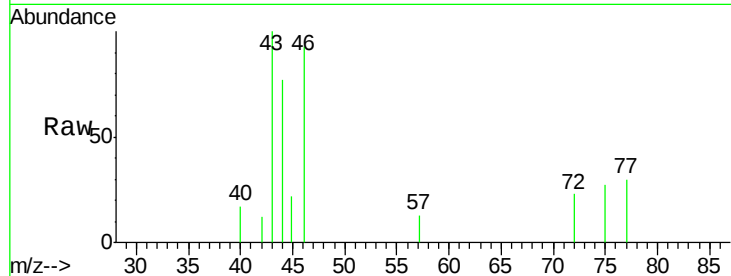
72 0.0 11.9 35.9#

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11/2/2020 2:27:09 PM



#23

Bromochloromethane

Concen: 1.847 ug/L

RT: 4.29 min Scan# 994

Delta R.T. 0.01 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

Tgt Ion: 128 Resp: 1665

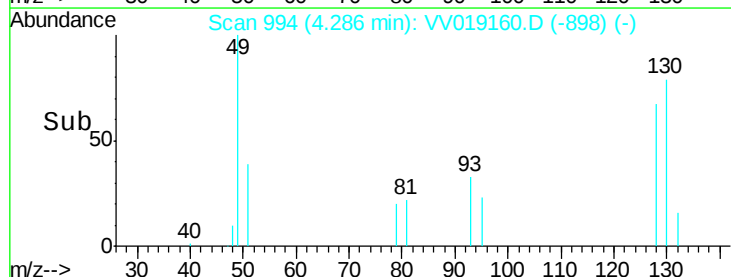
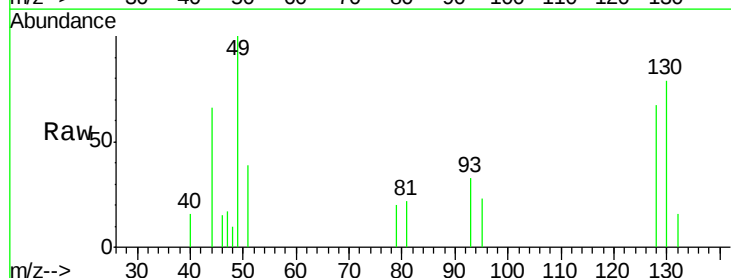
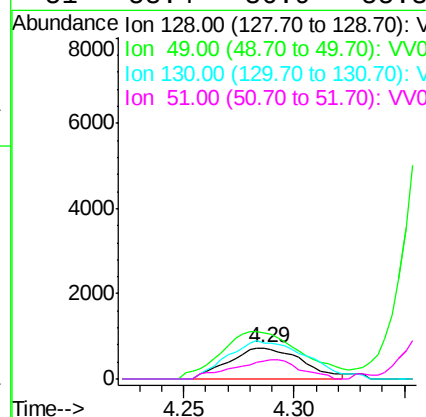
Ion Ratio Lower Upper

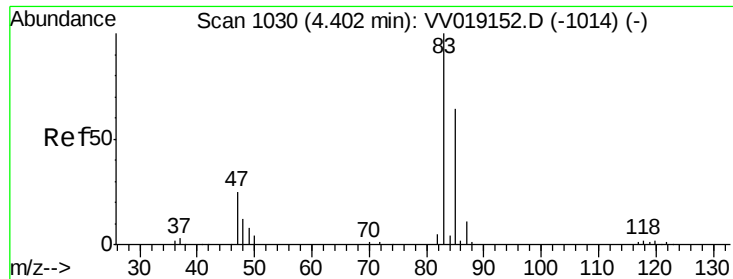
128 100

49 150.0 108.5 201.5

130 118.4 90.4 167.8

51 58.4 36.9 55.3#





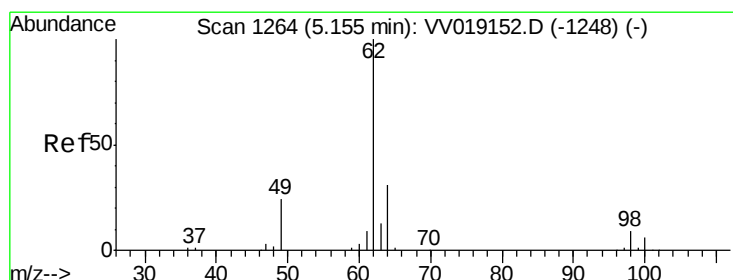
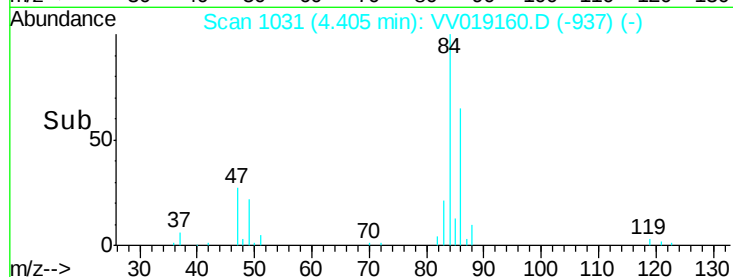
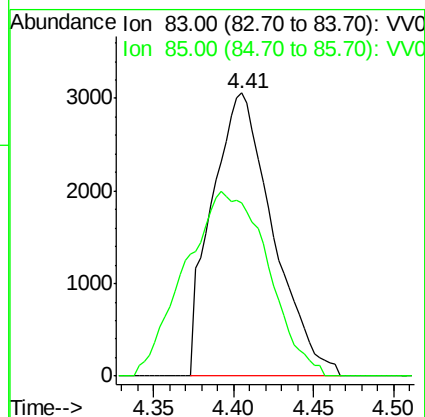
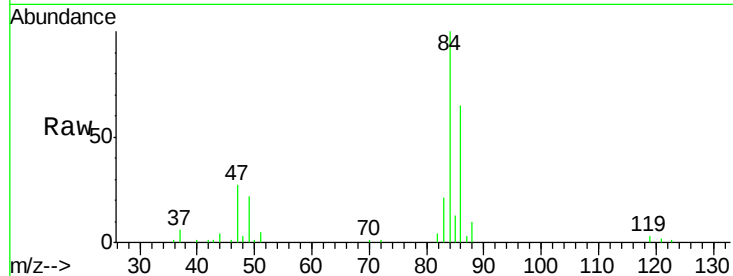
#25  
Chloroform  
Concen: 2.604 ug/L  
RT: 4.41 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VV019160.D  
Acq: 29 Oct 2020 21:12

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL06

Tot Ion: 83 Resp: 8026  
Ion Ratio Lower Upper  
83 100  
85 61.4 45.1 83.9

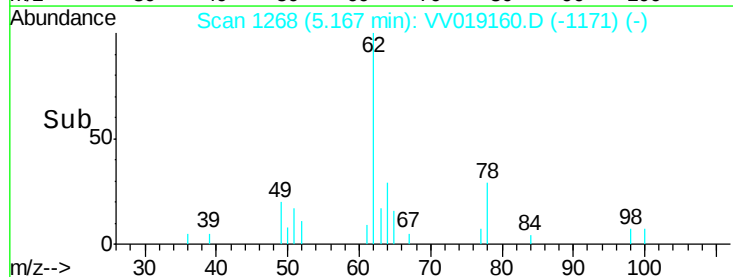
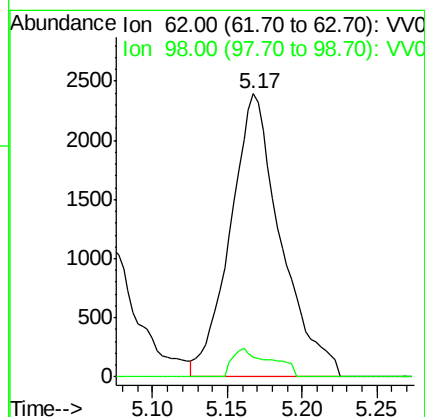
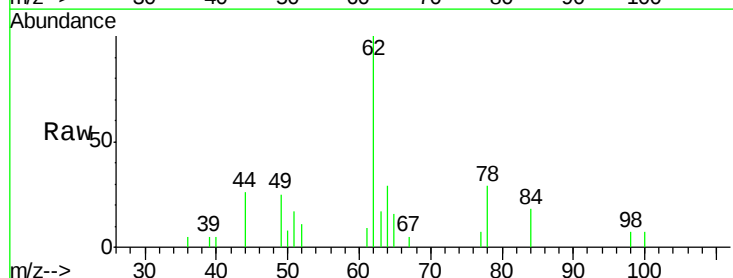
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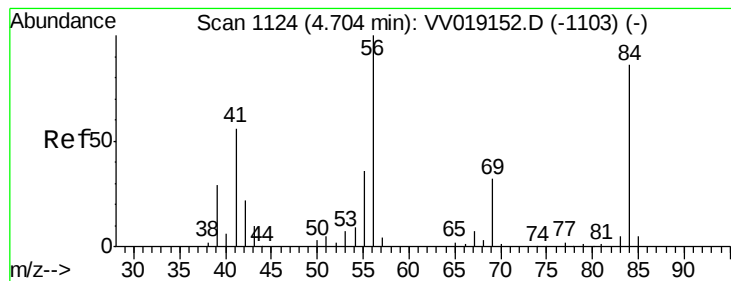
MMDadoda  
11/2/2020 2:27:09 PM



#27  
1,2-Dichloroethane  
Concen: 2.142 ug/L  
RT: 5.17 min Scan# 1268  
Delta R.T. 0.01 min  
Lab File: VV019160.D  
Acq: 29 Oct 2020 21:12

Tgt Ion: 62 Resp: 5620  
Ion Ratio Lower Upper  
62 100  
98 7.0 6.8 10.2





#29

Cyclohexane

Concen: 1.634 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

Instrument :

MSVOA\_V

ClientSampleId :

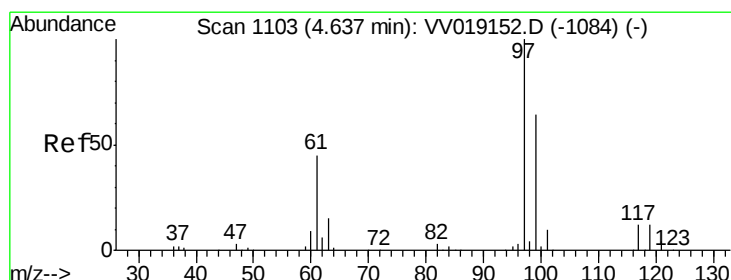
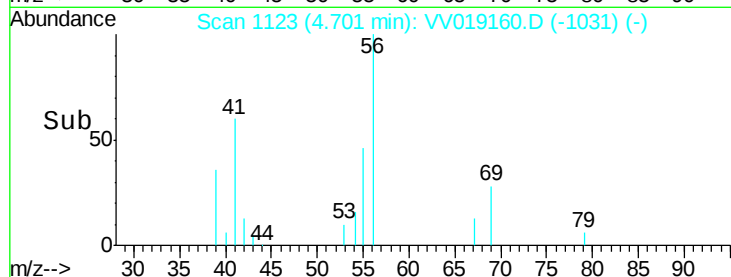
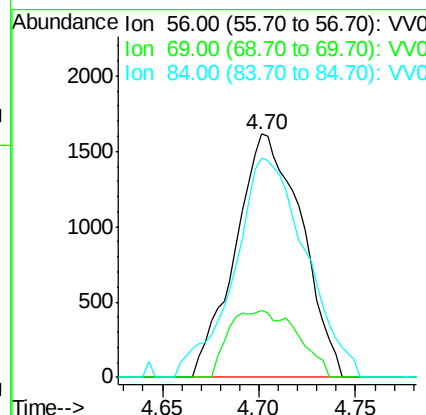
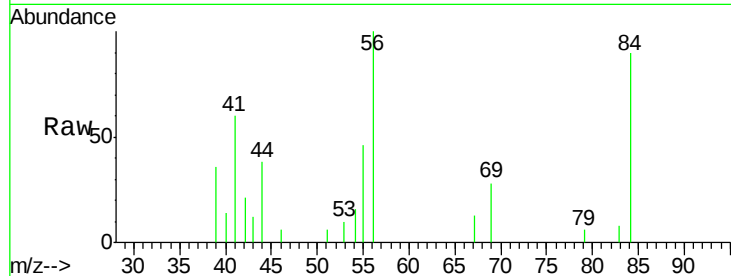
MDL06

Tot Ion: 56 Resp: 3833

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 9.9   | 25.0  | 37.4# |
| 84  | 97.9  | 71.5  | 107.3 |

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#30

1,1,1-Trichloroethane

Concen: 1.972 ug/L

RT: 4.64 min Scan# 1103

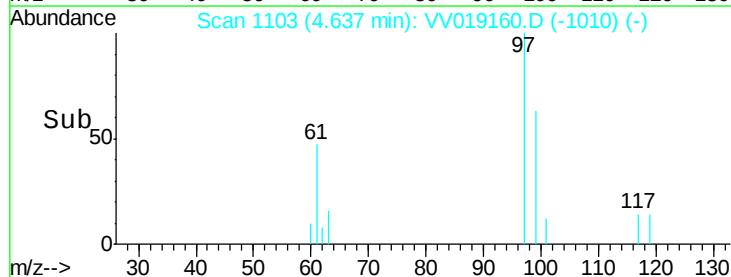
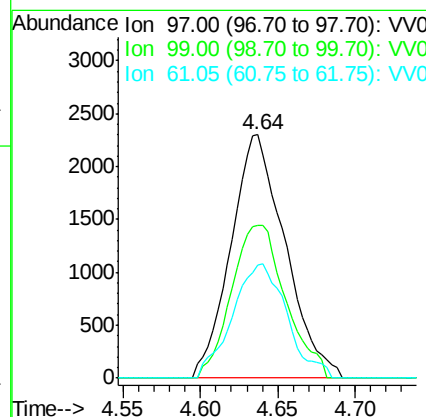
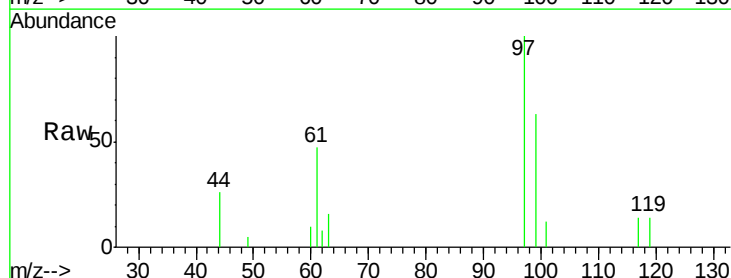
Delta R.T. -0.00 min

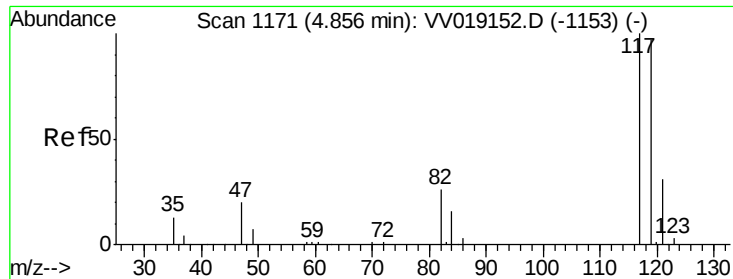
Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

Tgt Ion: 97 Resp: 5616

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 97  | 100   |       |       |
| 99  | 62.5  | 51.3  | 76.9  |
| 61  | 47.1  | 34.6  | 52.0  |





#31

Carbon tetrachloride

Concen: 1.844 ug/L m

RT: 4.86 min Scan# 1172

Delta R.T. 0.00 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

Instrument :

MSVOA\_V

ClientSampleId :

MDL06

Tot Ion:117 Resp: 4655

Ion Ratio Lower Upper

117 100

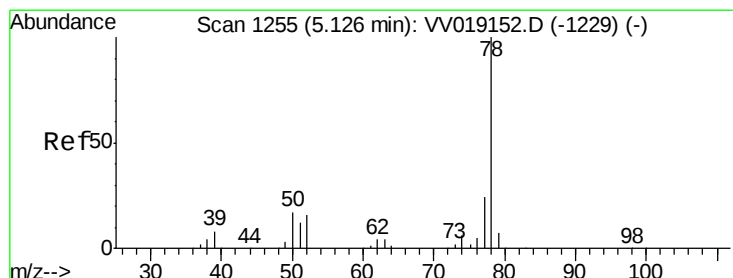
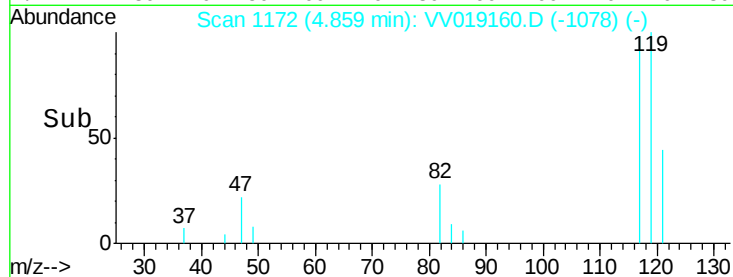
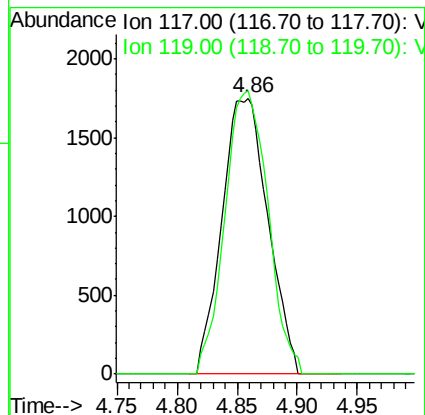
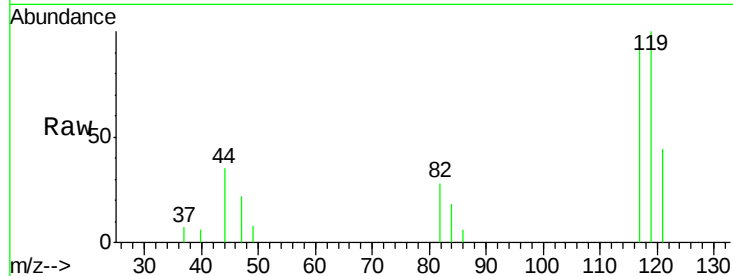
119 96.2 77.2 115.8

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#33

Benzene

Concen: 2.170 ug/L

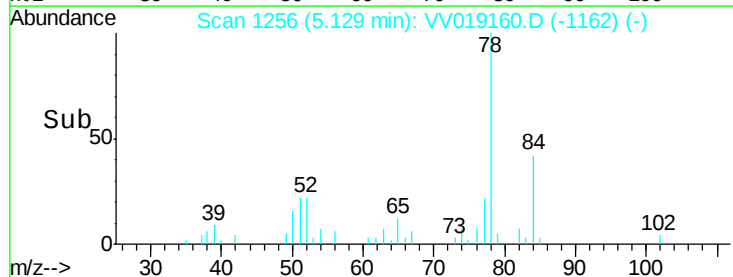
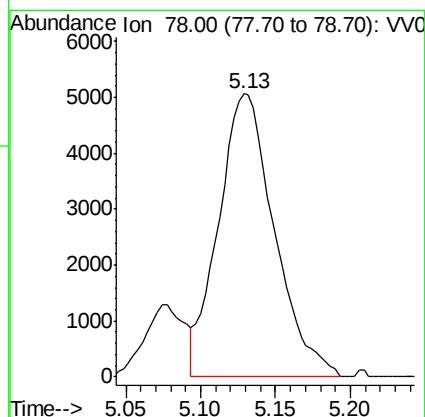
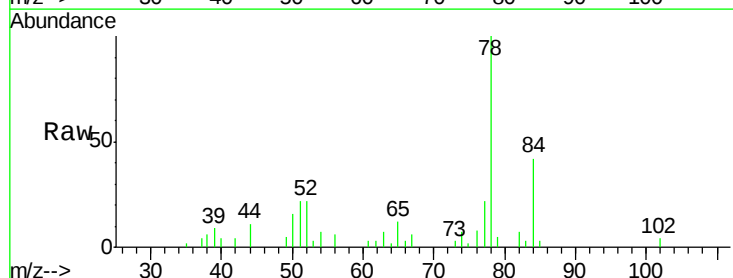
RT: 5.13 min Scan# 1256

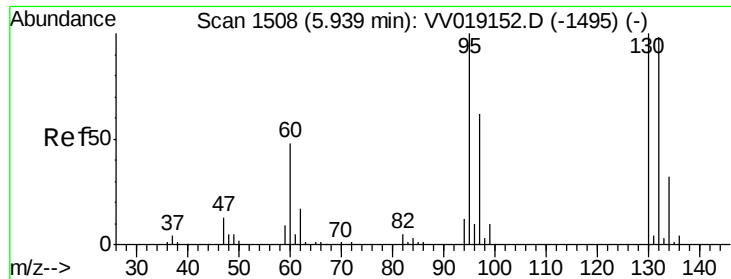
Delta R.T. 0.00 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

Tgt Ion: 78 Resp: 13148





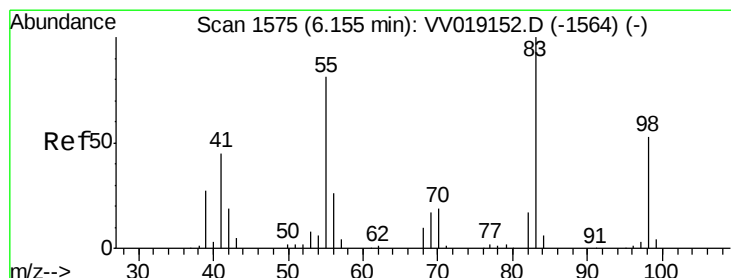
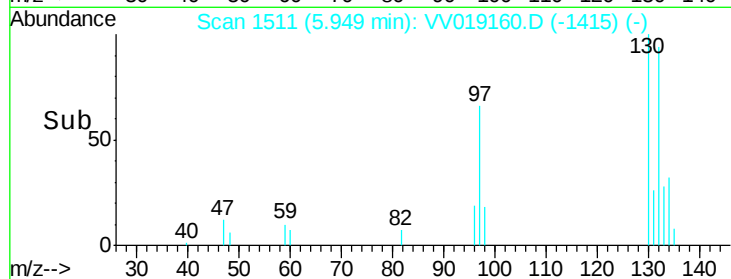
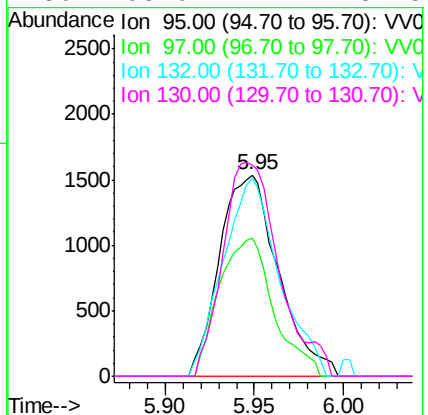
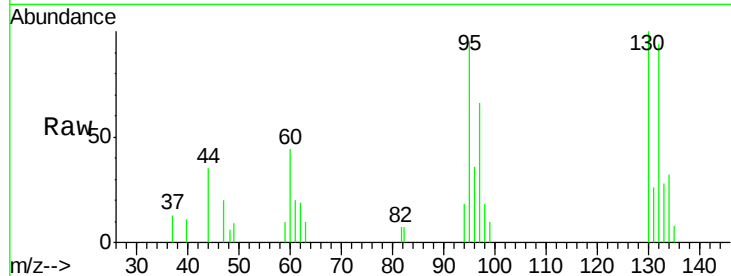
#34  
 Trichloroethene  
 Concen: 2.126 ug/L  
 RT: 5.95 min Scan# 1511  
 Delta R.T. 0.01 min  
 Lab File: VV019160.D  
 Acq: 29 Oct 2020 21:12

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 MDL06

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 95    | Resp: | 3528  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 97       | 68.9  | 43.4  | 80.6  |
| 132      | 98.8  | 69.7  | 129.4 |
| 130      | 105.0 | 72.4  | 134.5 |

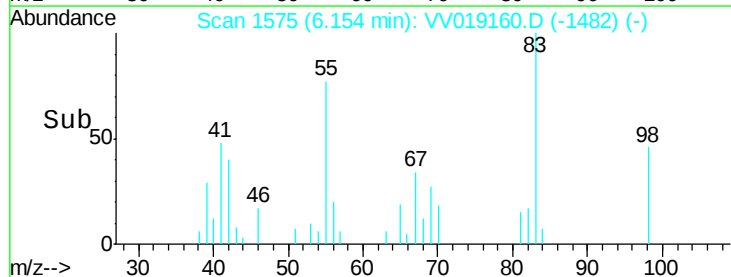
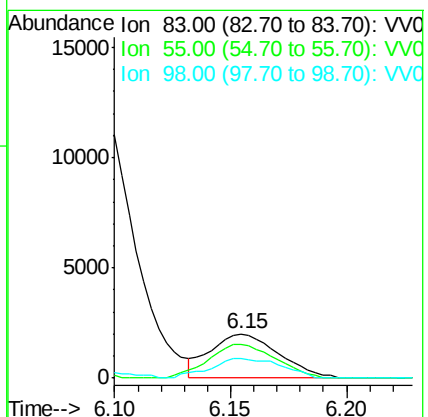
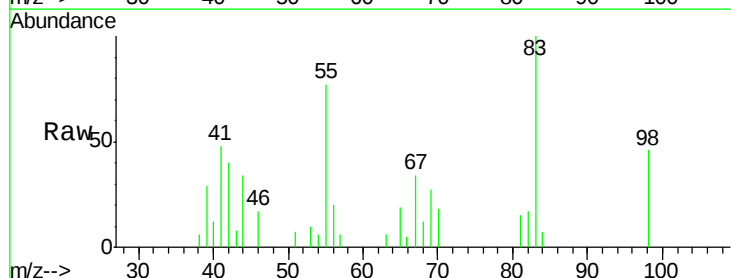
Manual Integrations  
 APPROVED

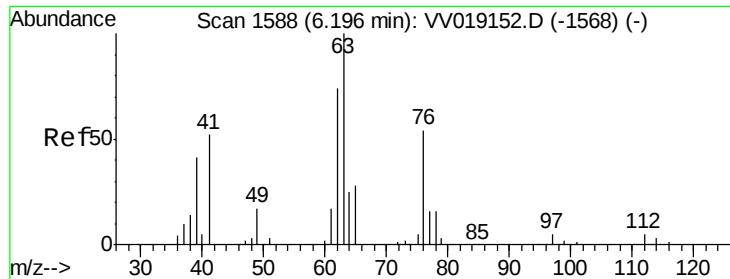
MMDadoda  
 11/2/2020 2:27:09 PM



#35  
 Methylcyclohexane  
 Concen: 1.838 ug/L  
 RT: 6.15 min Scan# 1575  
 Delta R.T. -0.00 min  
 Lab File: VV019160.D  
 Acq: 29 Oct 2020 21:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 4118  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 74.6  | 62.2  | 93.4  |
| 98       | 29.1  | 39.4  | 59.2# |





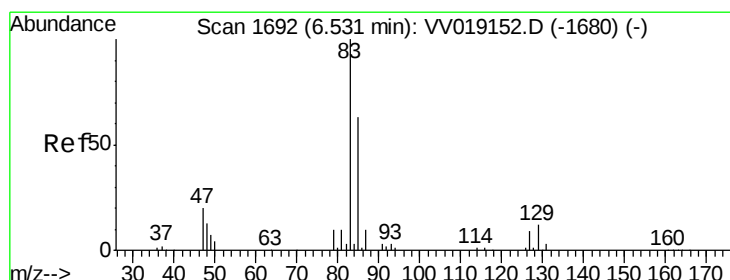
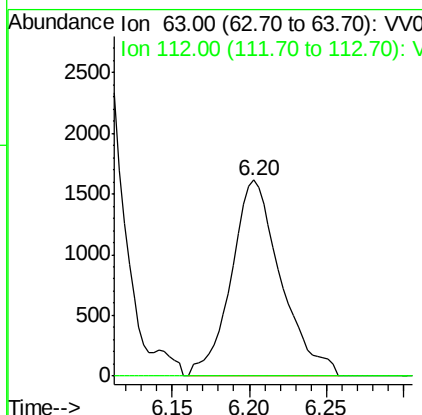
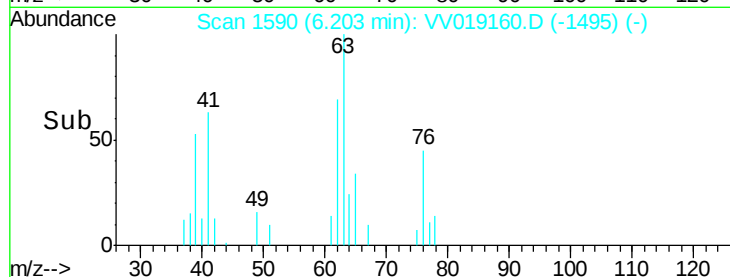
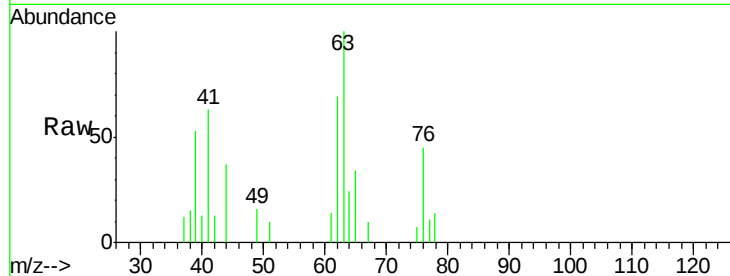
#37  
 1,2-Dichloropropane  
 Concen: 2.391 ug/L  
 RT: 6.20 min Scan# 1590  
 Delta R.T. 0.01 min  
 Lab File: VV019160.D  
 Acq: 29 Oct 2020 21:12

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 MDL06

Tot Ion: 63 Resp: 3597  
 Ion Ratio Lower Upper  
 63 100  
 112 0.0 3.8 5.8#

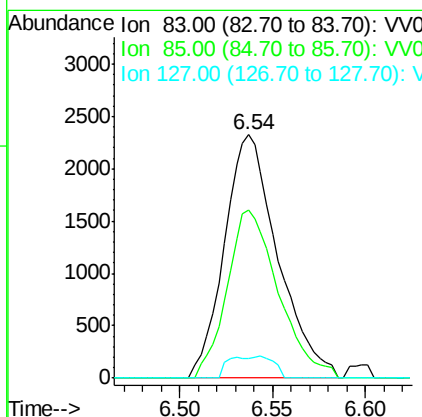
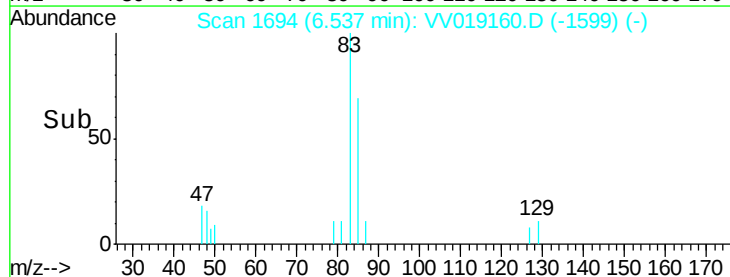
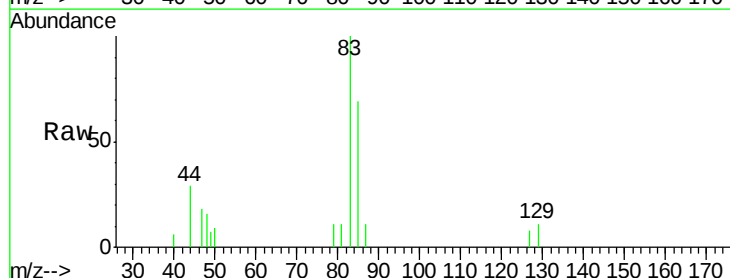
Manual Integrations  
 APPROVED

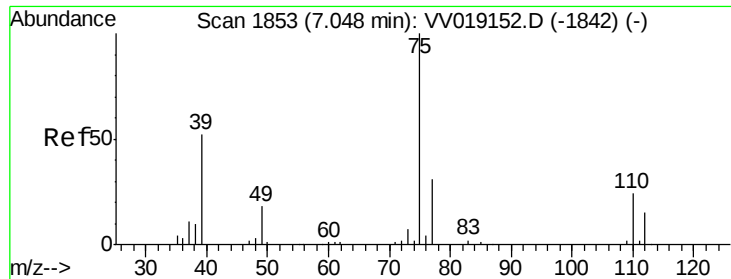
MMDadoda  
 11/2/2020 2:27:09 PM



#38  
 Bromodichloromethane  
 Concen: 2.070 ug/L  
 RT: 6.54 min Scan# 1694  
 Delta R.T. 0.01 min  
 Lab File: VV019160.D  
 Acq: 29 Oct 2020 21:12

Tgt Ion: 83 Resp: 4633  
 Ion Ratio Lower Upper  
 83 100  
 85 69.2 45.9 85.3  
 127 8.3 6.9 10.3





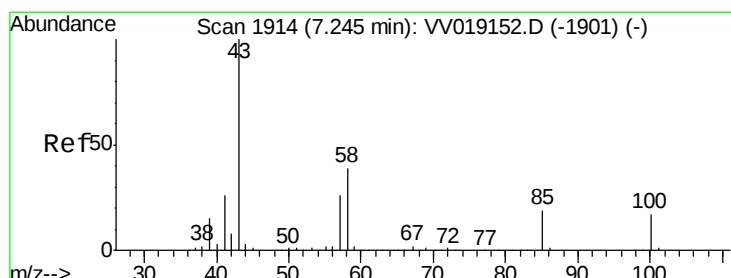
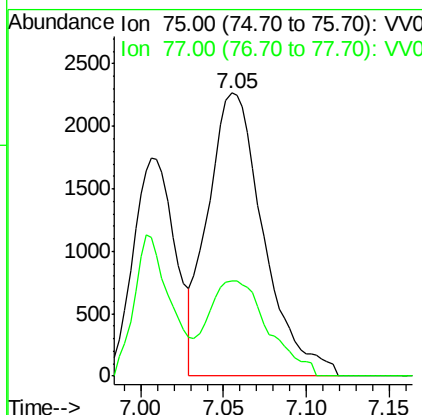
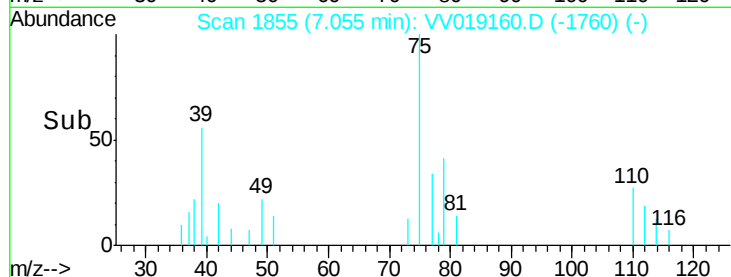
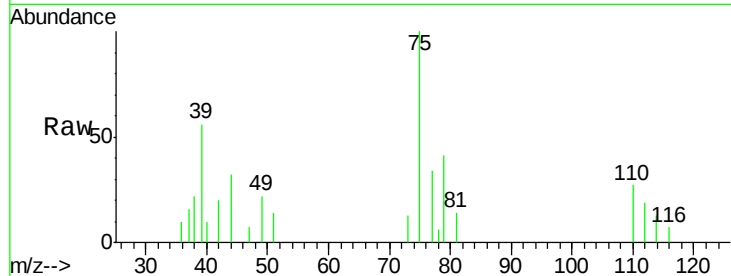
#39  
 cis-1,3-Dichloropropene  
 Concen: 2.132 ug/L  
 RT: 7.05 min Scan# 1855  
 Delta R.T. 0.01 min  
 Lab File: VV019160.D  
 Acq: 29 Oct 2020 21:12

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL06

Tot Ion: 75 Resp: 5299  
 Ion Ratio Lower Upper  
 75 100  
 77 33.8 22.7 42.1

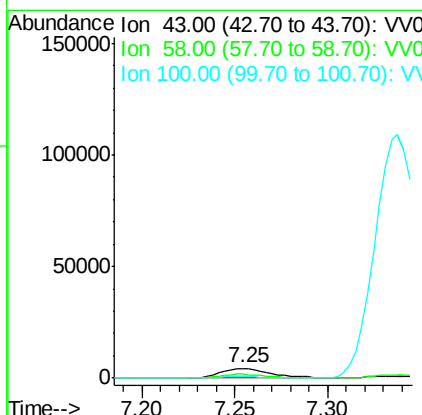
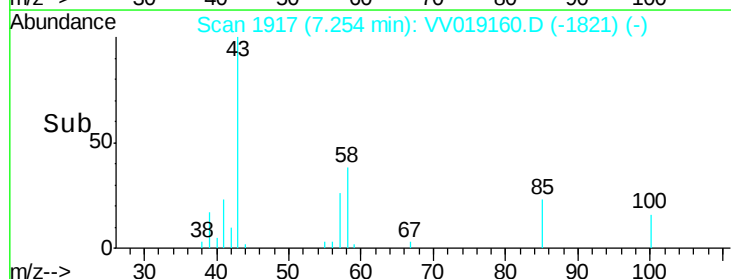
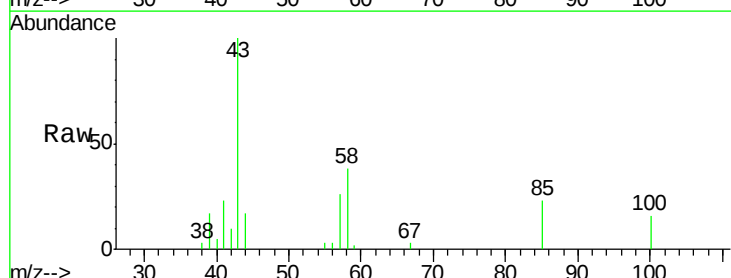
Manual Integrations  
 APPROVED

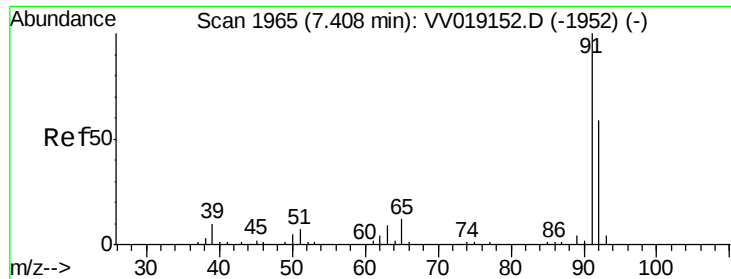
MMDadoda  
 11/2/2020 2:27:09 PM



#40  
 4-Methyl-2-pentanone  
 Concen: 4.017 ug/L  
 RT: 7.25 min Scan# 1917  
 Delta R.T. 0.01 min  
 Lab File: VV019160.D  
 Acq: 29 Oct 2020 21:12

Tgt Ion: 43 Resp: 8336  
 Ion Ratio Lower Upper  
 43 100  
 58 36.1 31.0 46.4  
 100 14.8 13.2 19.8





#42

Toluene

Concen: 2.638 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

Instrument :

MSVOA\_V

ClientSampled :

MDL06

Tot Ion: 91 Resp: 17519

Ion Ratio Lower Upper

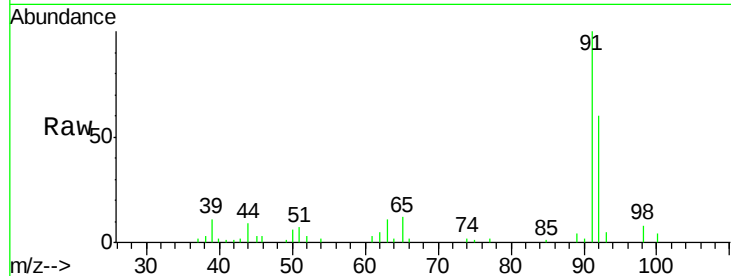
91 100

92 59.8 41.5 77.1

Manual Integrations  
APPROVED

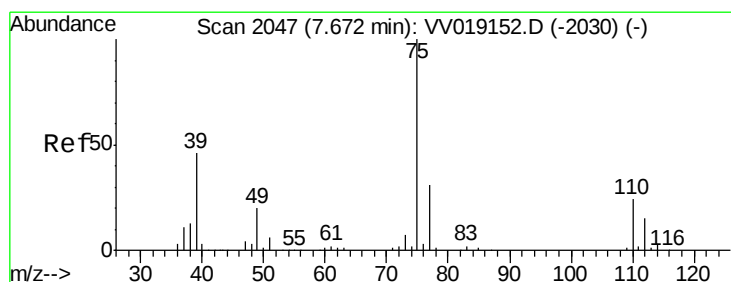
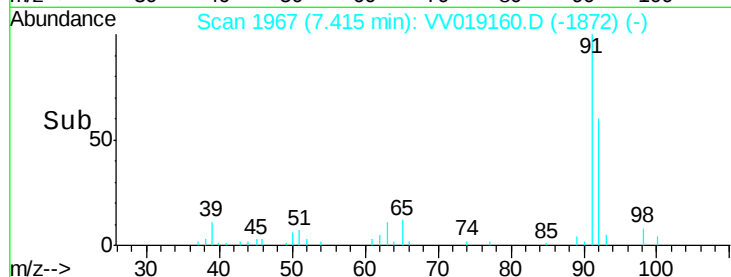
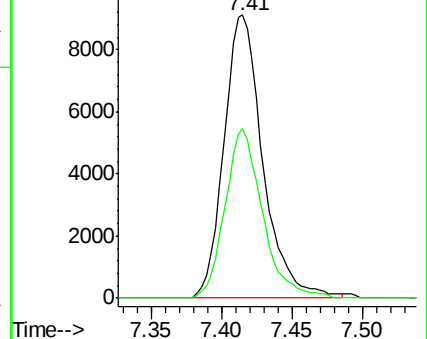
MMDadoda

11/2/2020 2:27:09 PM



Abundance Ion 91.00 (90.70 to 91.70): VV019160.D (-1954) (-)

Ion 92.00 (91.70 to 92.70): VV019160.D (-1954) (-)



#44

trans-1,3-Dichloropropene

Concen: 1.911 ug/L

RT: 7.68 min Scan# 2048

Delta R.T. 0.00 min

Lab File: VV019160.D

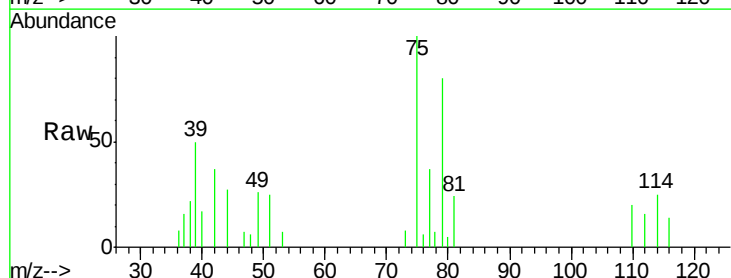
Acq: 29 Oct 2020 21:12

Tgt Ion: 75 Resp: 4940

Ion Ratio Lower Upper

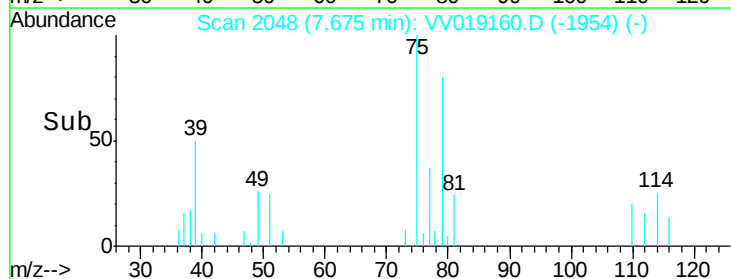
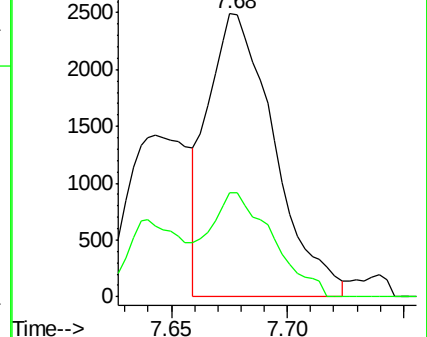
75 100

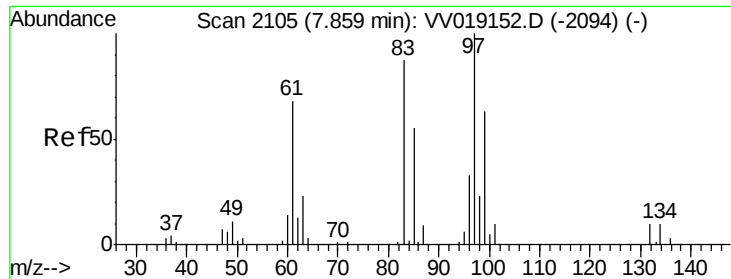
77 37.0 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VV019160.D (-1954) (-)

Ion 77.00 (76.70 to 77.70): VV019160.D (-1954) (-)





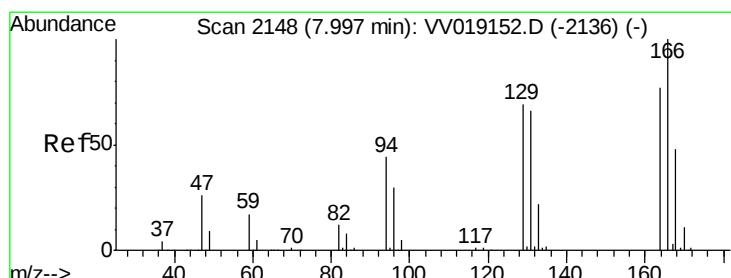
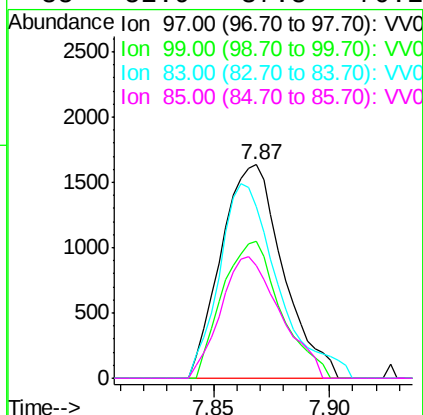
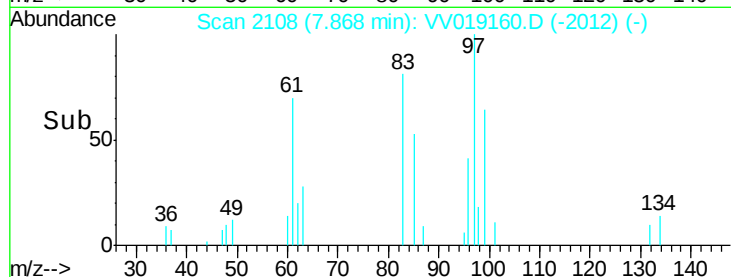
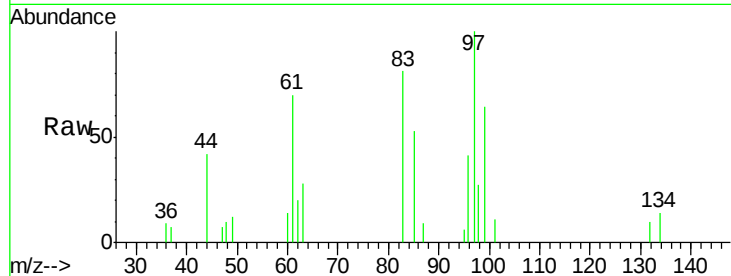
#45  
1,1,2-Trichloroethane  
Concen: 2.010 ug/L  
RT: 7.87 min Scan# 2108  
Delta R.T. 0.01 min  
Lab File: VV019160.D  
Acq: 29 Oct 2020 21:12

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL06

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 97    | Resp: | 3033  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 64.1  | 43.1  | 80.1  |
| 83       | 80.6  | 58.3  | 108.3 |
| 85       | 52.9  | 37.8  | 70.2  |

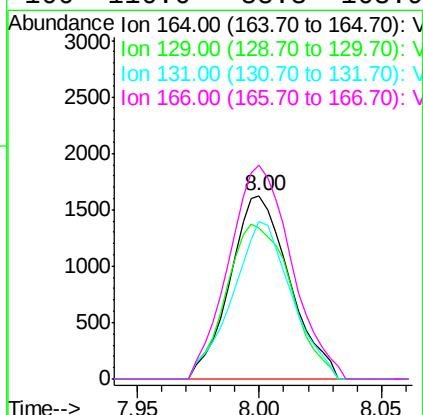
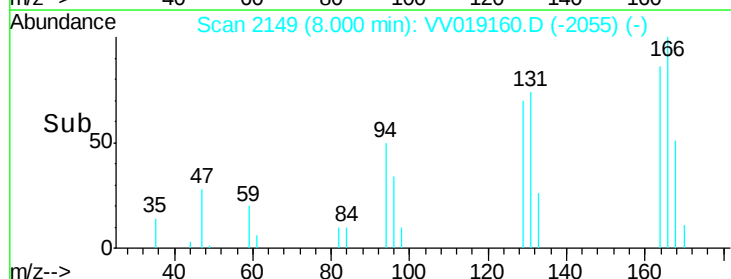
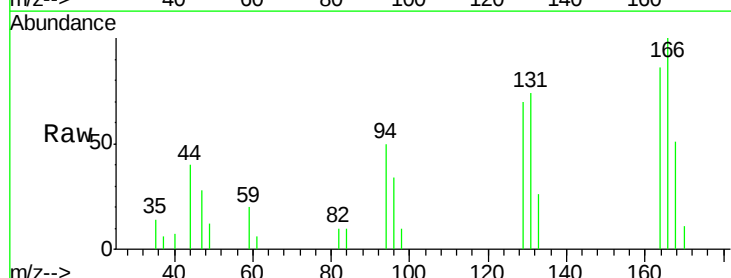
Manual Integrations  
APPROVED

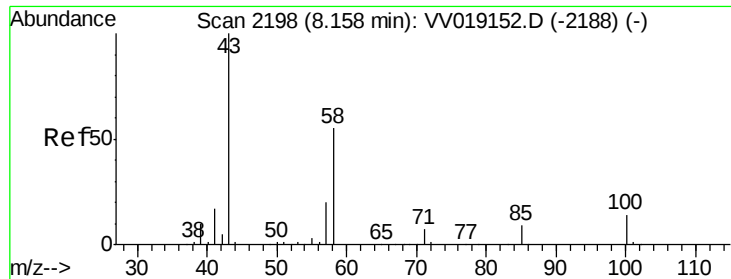
MMDadoda  
11/2/2020 2:27:09 PM



#46  
Tetrachloroethene  
Concen: 1.938 ug/L  
RT: 8.00 min Scan# 2149  
Delta R.T. 0.00 min  
Lab File: VV019160.D  
Acq: 29 Oct 2020 21:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 2746  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 82.2  | 63.2  | 117.4 |
| 131      | 86.1  | 60.3  | 112.1 |
| 166      | 116.6 | 88.3  | 163.9 |





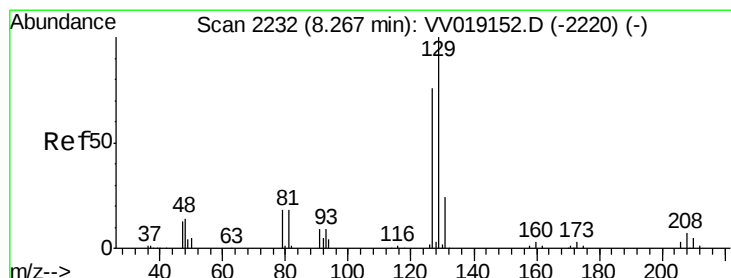
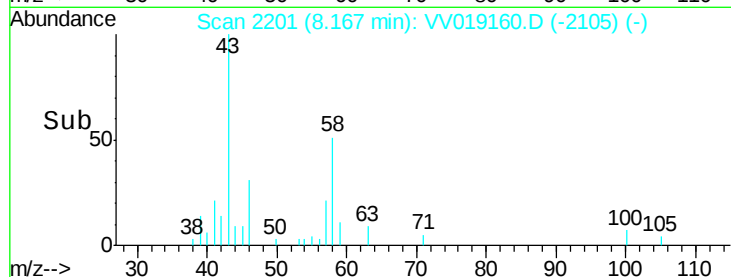
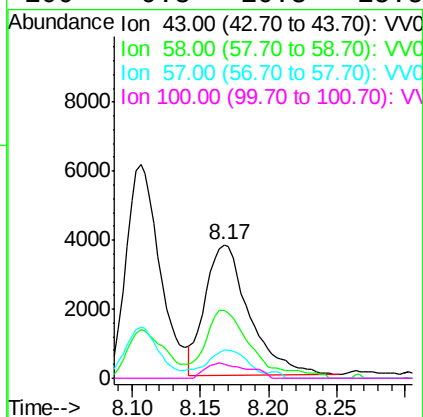
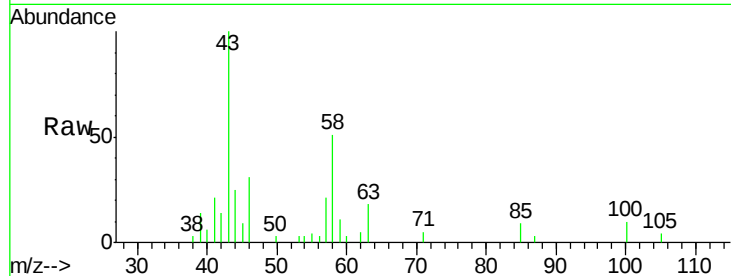
#48  
2-Hexanone  
Concen: 5.195 ug/L  
RT: 8.17 min Scan# 2201  
Delta R.T. 0.01 min  
Lab File: VV019160.D  
Acq: 29 Oct 2020 21:12

Instrument :  
MSVOA\_V  
ClientSampleId :  
MDL06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 43.0  | 43.6  | 65.4# |
| 57      | 14.0  | 16.0  | 24.0# |
| 100     | 9.3   | 10.3  | 15.5# |

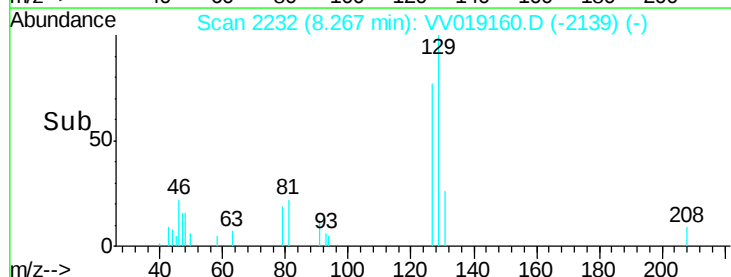
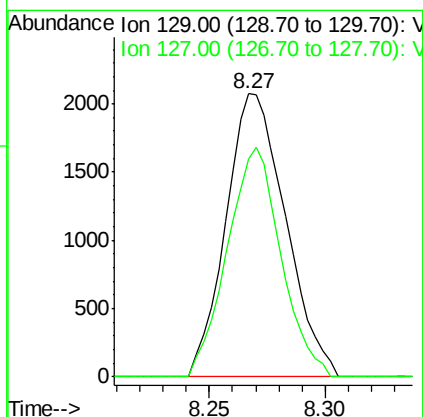
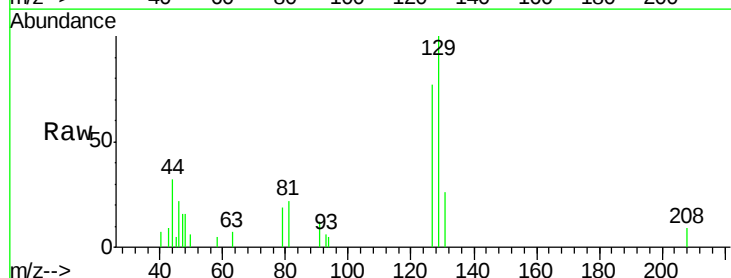
Manual Integrations  
APPROVED

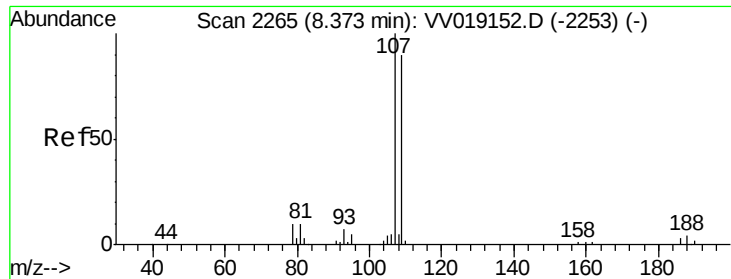
MMDadoda  
11/2/2020 2:27:09 PM



#49  
Dibromochloromethane  
Concen: 2.028 ug/L  
RT: 8.27 min Scan# 2232  
Delta R.T. -0.00 min  
Lab File: VV019160.D  
Acq: 29 Oct 2020 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 77.1  | 54.7  | 101.5 |





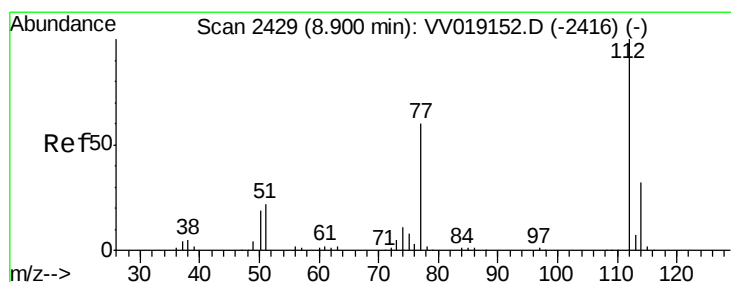
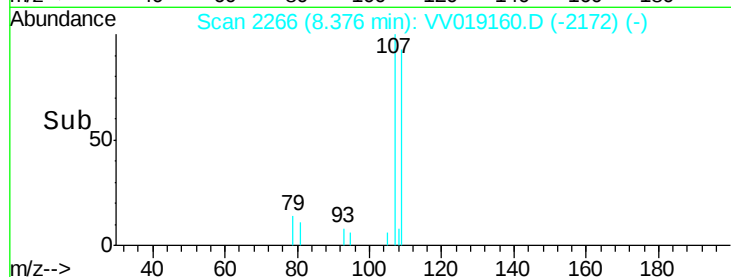
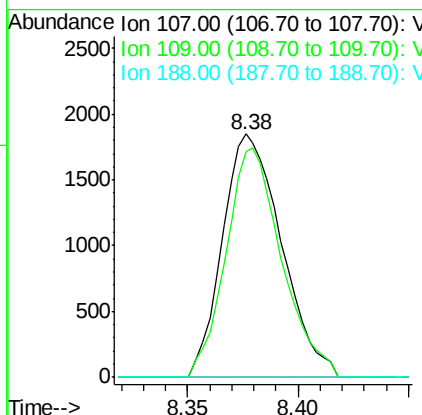
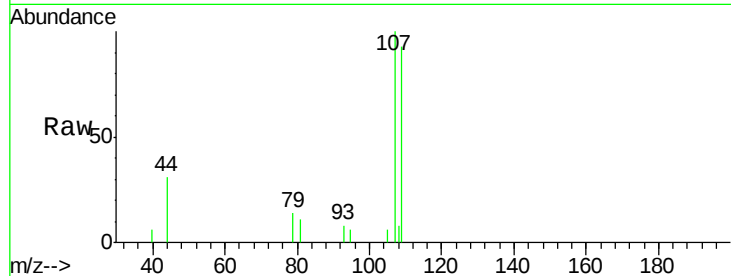
#50  
 1,2-Dibromoethane  
 Concen: 2.129 ug/L  
 RT: 8.38 min Scan# 2266  
 Delta R.T. 0.00 min  
 Lab File: VV019160.D  
 Acq: 29 Oct 2020 21:12

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 109     | 92.8  | 65.7  | 121.9 |
| 188     | 0.0   | 3.4   | 5.2#  |

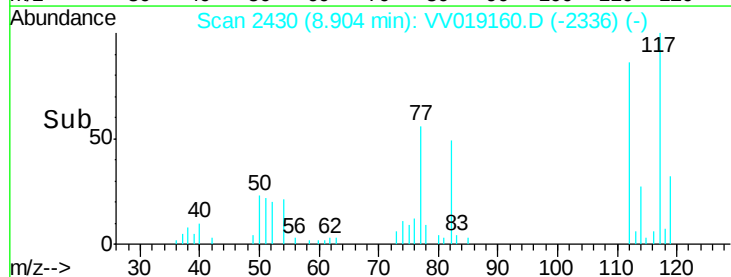
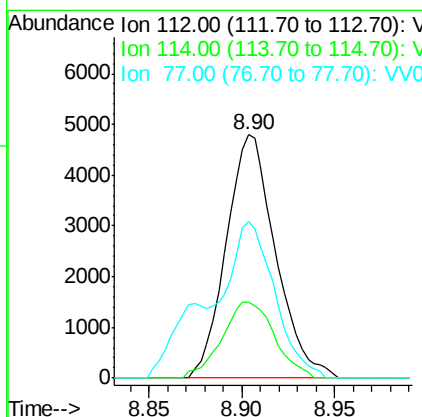
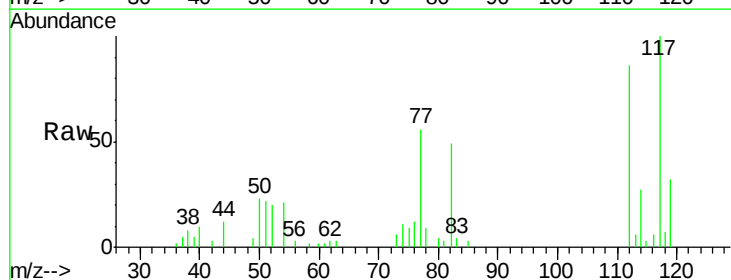
Manual Integrations  
 APPROVED

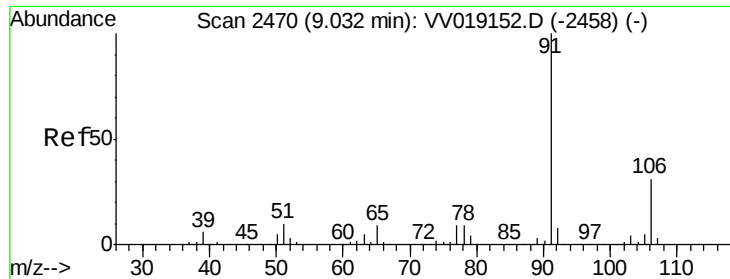
MMDadoda  
 11/2/2020 2:27:09 PM



#51  
 Chlorobenzene  
 Concen: 2.031 ug/L  
 RT: 8.90 min Scan# 2430  
 Delta R.T. 0.00 min  
 Lab File: VV019160.D  
 Acq: 29 Oct 2020 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 31.2  | 22.3  | 41.5  |
| 77      | 64.6  | 46.7  | 70.1  |





#52

Ethylbenzene

Concen: 1.878 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

Instrument :

MSVOA\_V

ClientSampleId :

MDL06

Tot Ion: 91 Resp: 13746

Ion Ratio Lower Upper

91 100

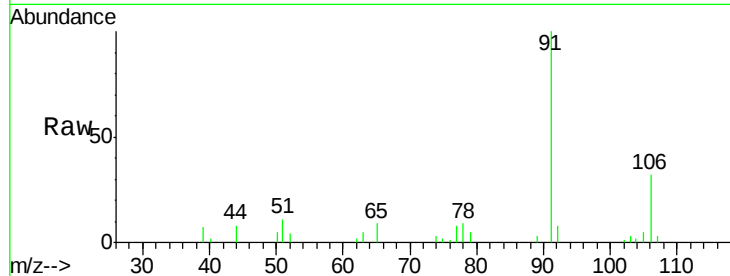
106 32.0 21.6 40.0

Manual Integrations

APPROVED

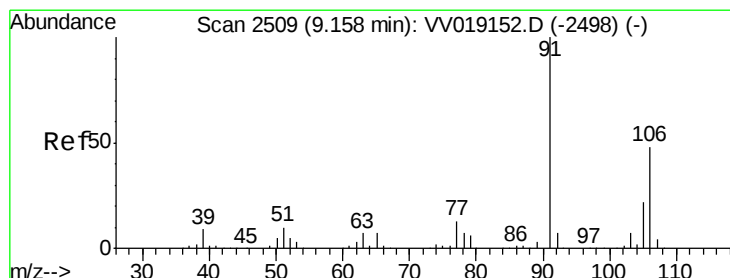
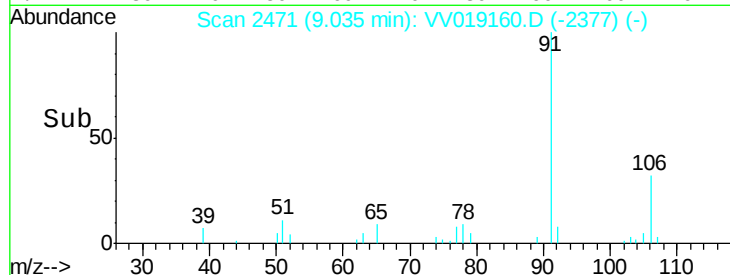
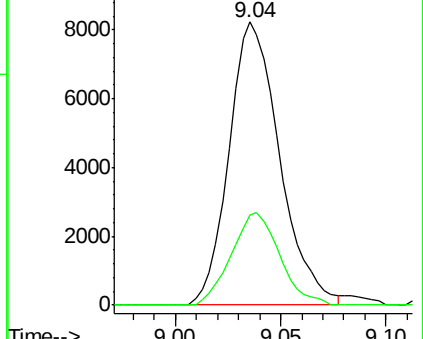
MMDadoda

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Abundance Ion 91.00 (90.70 to 91.70): VV019160.D (-2477) (-)

Ion 106.00 (105.70 to 106.70): VV019160.D (-2477) (-)



#53

m,p-Xylene

Concen: 1.812 ug/L

RT: 9.16 min Scan# 2511

Delta R.T. 0.01 min

Lab File: VV019160.D

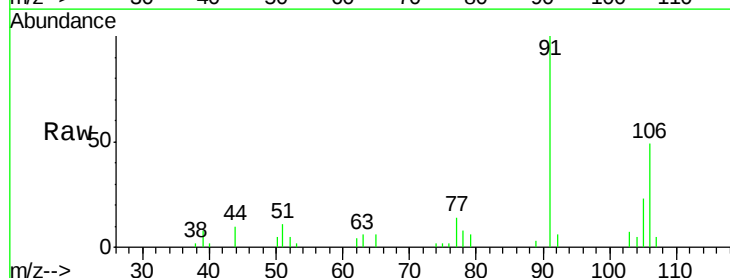
Acq: 29 Oct 2020 21:12

Tgt Ion: 106 Resp: 5007

Ion Ratio Lower Upper

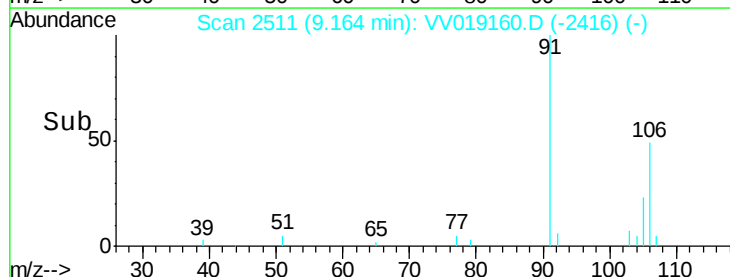
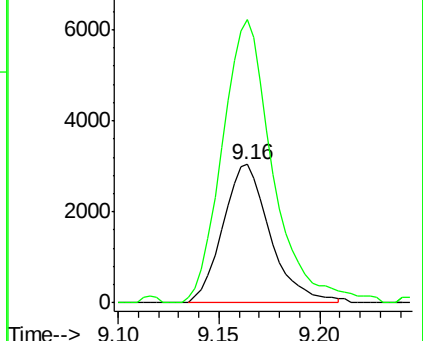
106 100

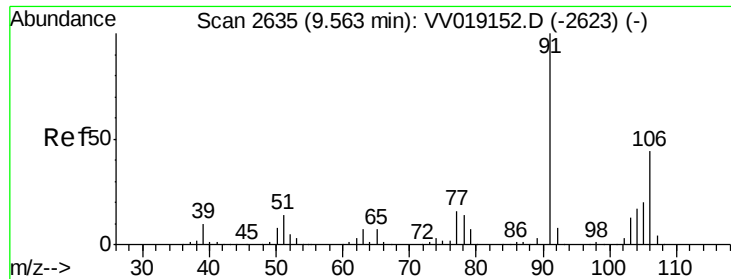
91 204.6 145.4 270.0



Abundance Ion 106.00 (105.70 to 106.70): VV019160.D (-2516) (-)

Ion 91.00 (90.70 to 91.70): VV019160.D (-2516) (-)





#54

o-xylene

Concen: 1.816 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

Instrument :

MSVOA\_V

ClientSampled :

MDL06

Tot Ion:106 Resp: 4819

Ion Ratio Lower Upper

106 100

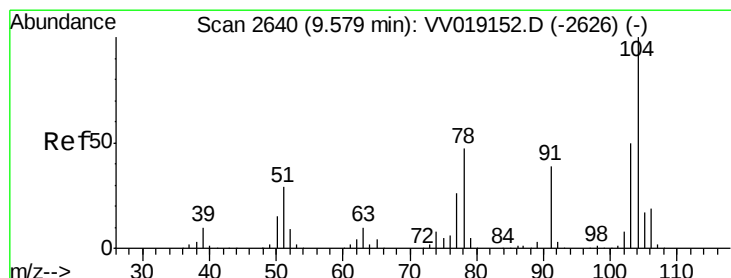
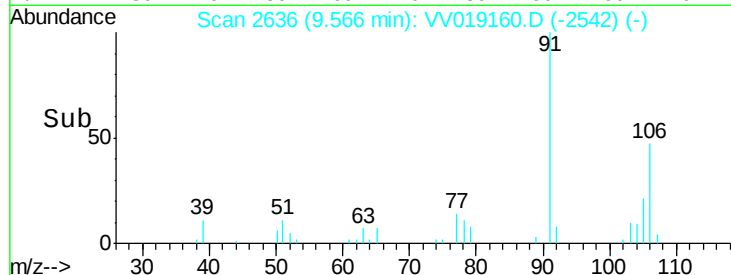
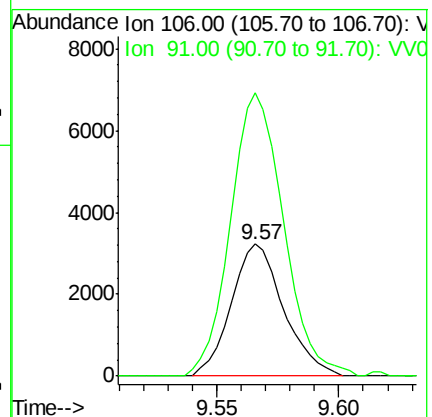
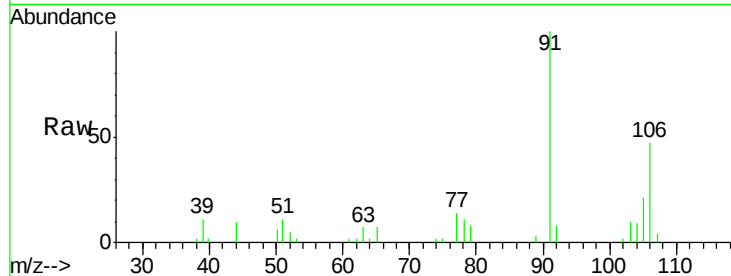
91 214.0 153.4 285.0

Manual Integrations

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#55

Styrene

Concen: 1.657 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.01 min

Lab File: VV019160.D

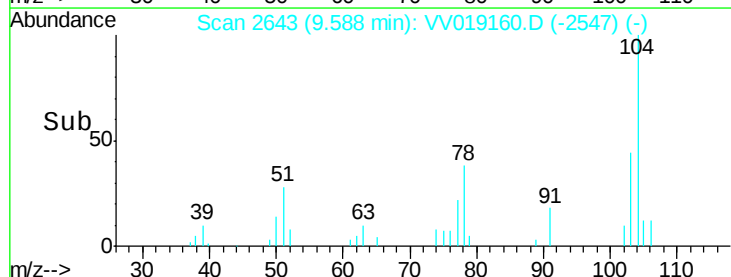
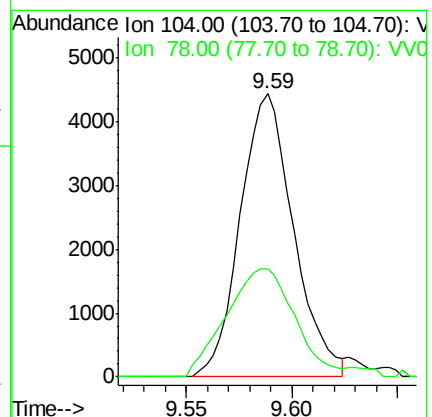
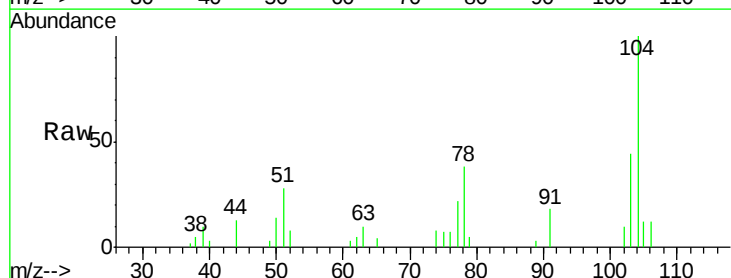
Acq: 29 Oct 2020 21:12

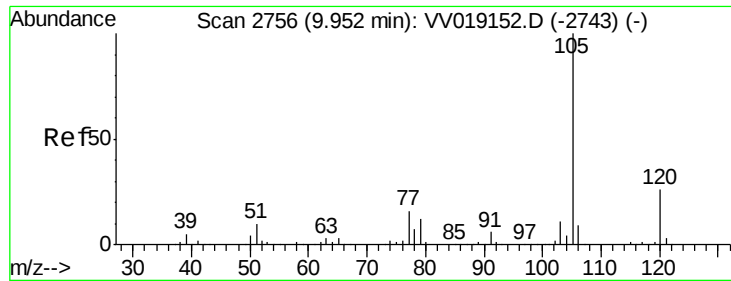
Tgt Ion:104 Resp: 7792

Ion Ratio Lower Upper

104 100

78 38.1 32.8 60.8





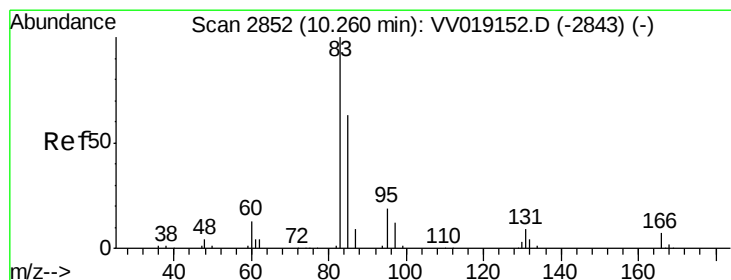
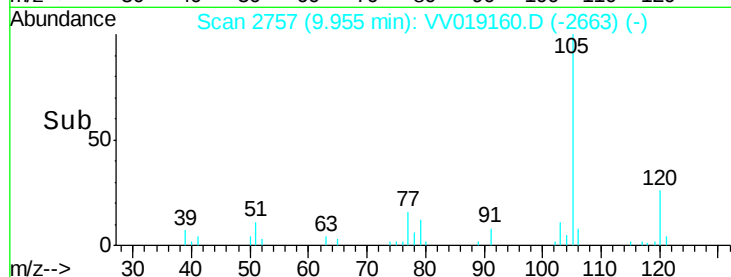
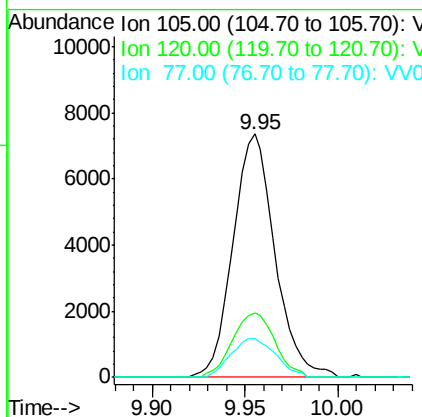
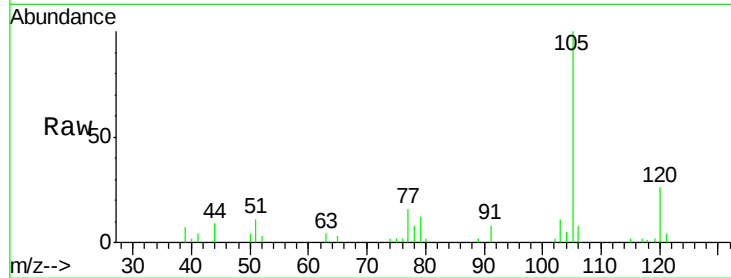
#56  
Isopropylbenzene  
Concen: 1.624 ug/L  
RT: 9.95 min Scan# 2757  
Delta R.T. 0.00 min  
Lab File: VV019160.D  
Acq: 29 Oct 2020 21:12

Instrument :  
MSVOA\_V  
ClientSampled :  
MDL06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.9  | 21.3  | 31.9  |
| 77      | 17.0  | 13.0  | 19.4  |

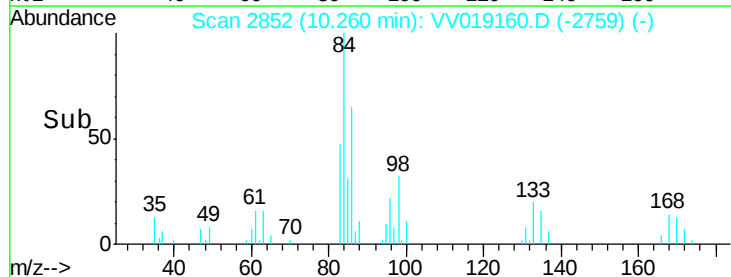
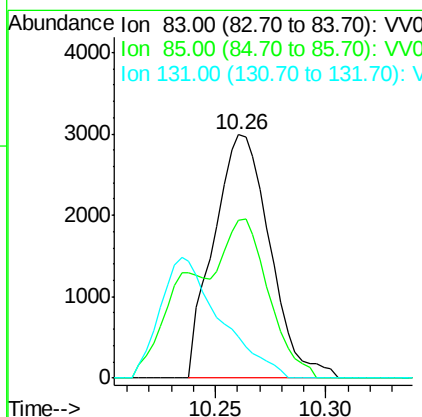
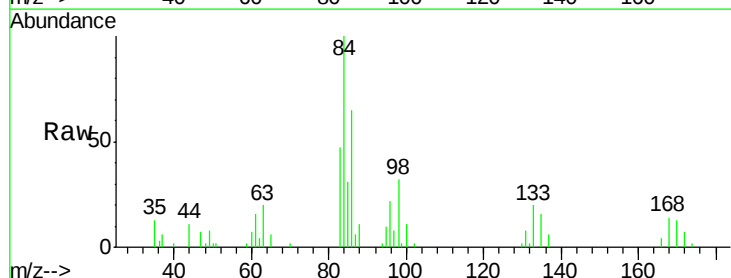
Manual Integrations  
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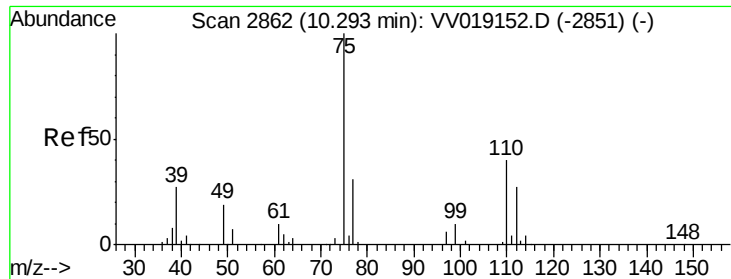
MMDadoda  
11/2/2020 2:27:09 PM



#58  
1,1,2,2-Tetrachloroethane  
Concen: 2.302 ug/L  
RT: 10.26 min Scan# 2852  
Delta R.T. -0.00 min  
Lab File: VV019160.D  
Acq: 29 Oct 2020 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 64.8  | 45.8  | 85.0  |
| 131     | 16.9  | 8.9   | 13.3# |





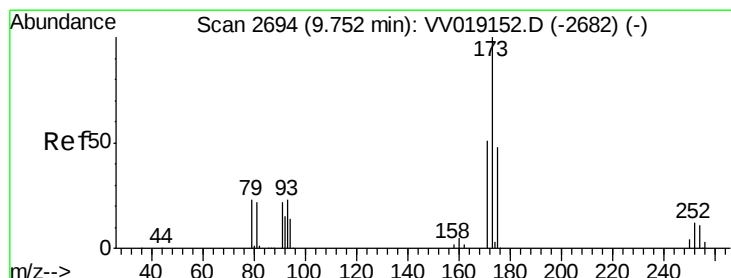
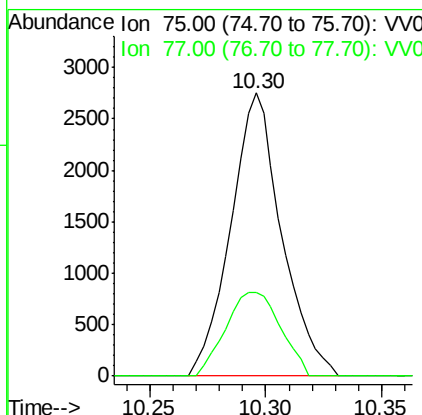
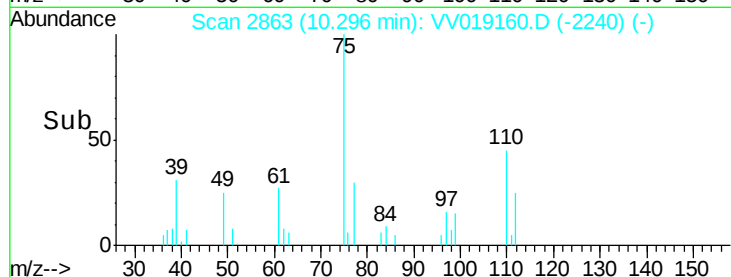
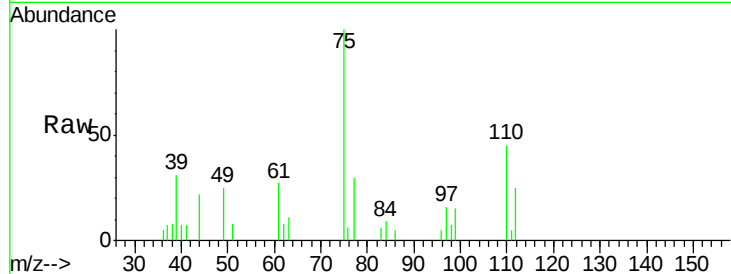
#59  
 1,2,3-Trichloropropane  
 Concen: 2.132 ug/L  
 RT: 10.30 min Scan# 2863  
 Delta R.T. 0.00 min  
 Lab File: VV019160.D  
 Acq: 29 Oct 2020 21:12

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 MDL06

Tot Ion: 75 Resp: 4192  
 Ion Ratio Lower Upper  
 75 100  
 77 32.0 26.2 39.4

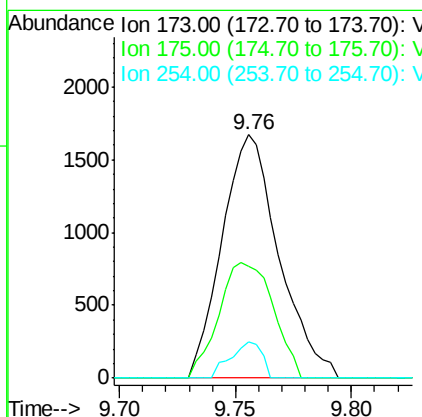
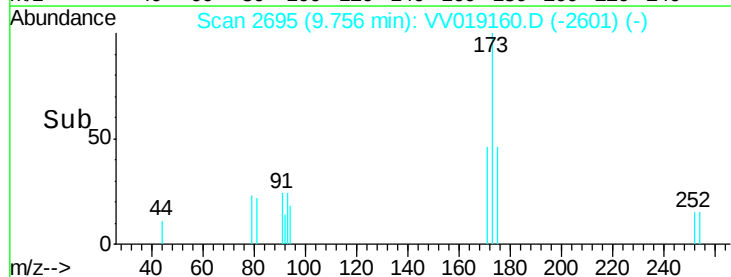
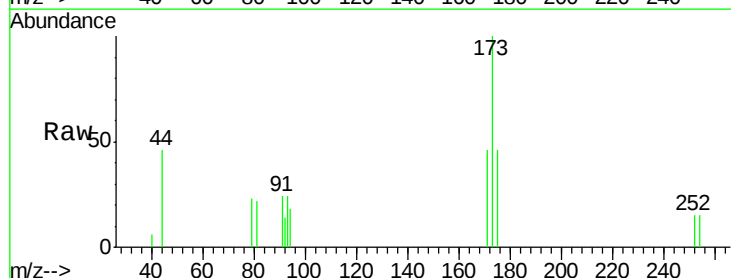
Manual Integrations  
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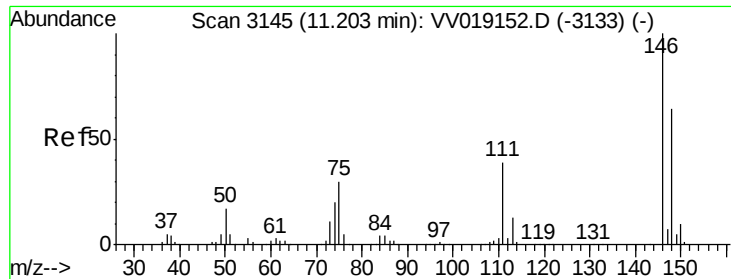
MMDadoda  
 11/2/2020 2:27:09 PM



#61  
 Bromoform  
 Concen: 2.141 ug/L  
 RT: 9.76 min Scan# 2695  
 Delta R.T. 0.00 min  
 Lab File: VV019160.D  
 Acq: 29 Oct 2020 21:12

Tgt Ion: 173 Resp: 2849  
 Ion Ratio Lower Upper  
 173 100  
 175 45.3 39.8 59.6  
 254 8.1 9.7 14.5#





#62

1,3-Dichlorobenzene

Concen: 1.963 ug/L

RT: 11.21 min Scan# 3146

Delta R.T. 0.00 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

Instrument :

MSVOA\_V

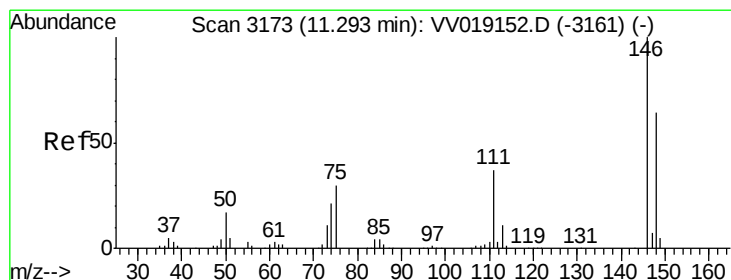
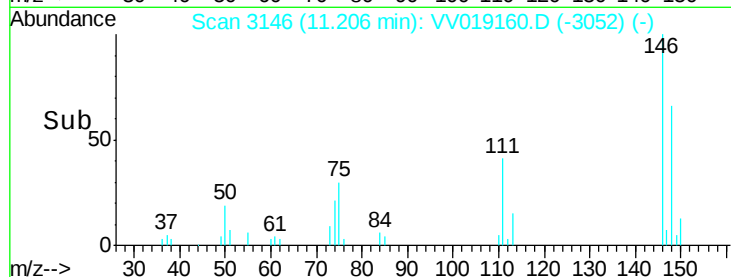
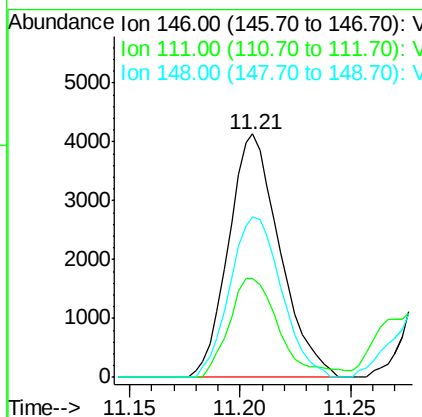
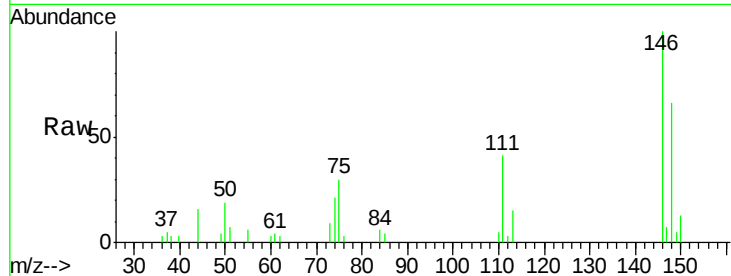
ClientSampled :

MDL06

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 146   | Resp: | 6677  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 40.6  | 27.1  | 50.3  |
| 148      | 66.0  | 44.7  | 83.1  |

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#63

1,4-Dichlorobenzene

Concen: 2.197 ug/L

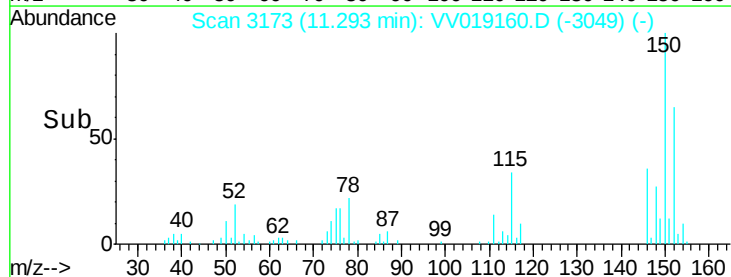
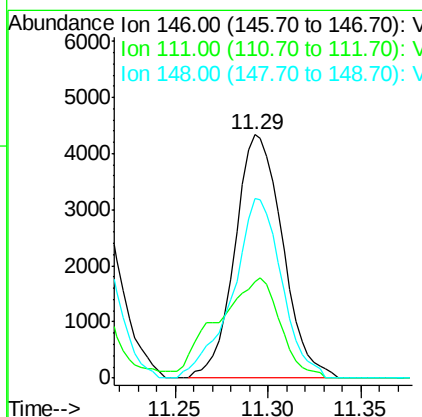
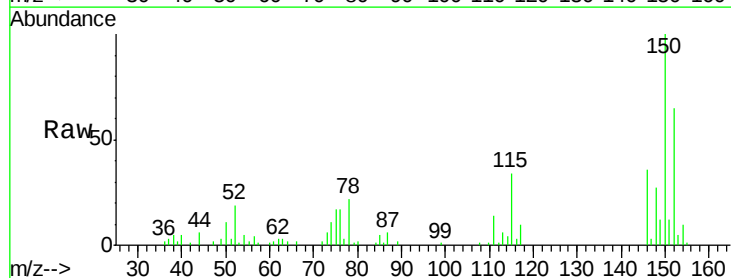
RT: 11.29 min Scan# 3173

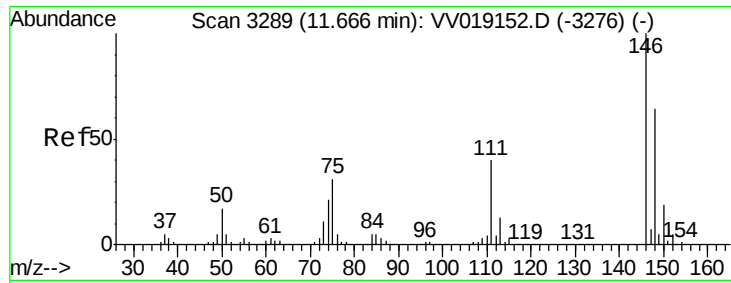
Delta R.T. -0.00 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 7767  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 39.5  | 25.8  | 48.0  |
| 148      | 73.6  | 44.0  | 81.6  |





#65

1,2-Dichlorobenzene

Concen: 2.266 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. -0.00 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

Instrument :

MSVOA\_V

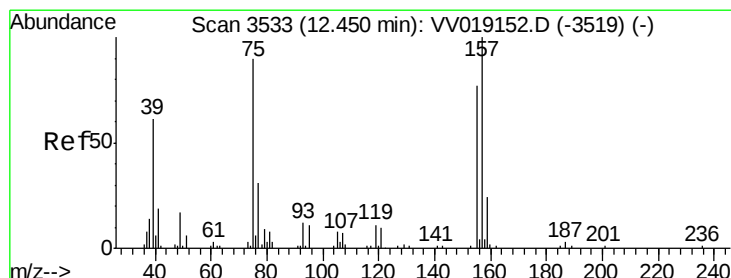
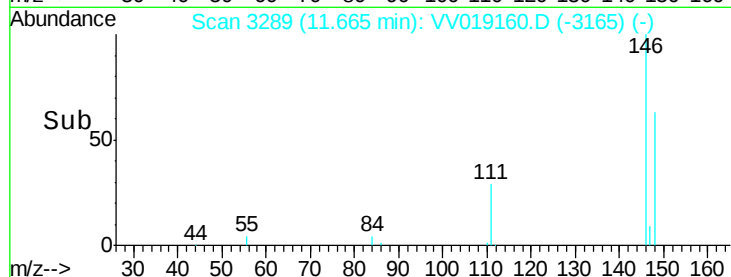
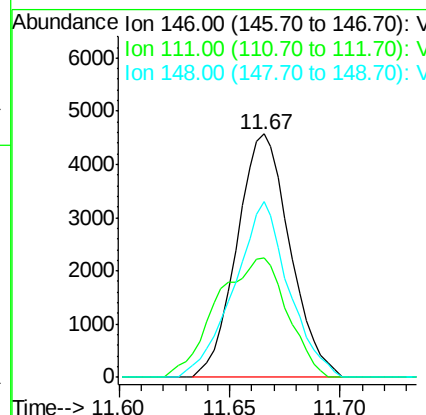
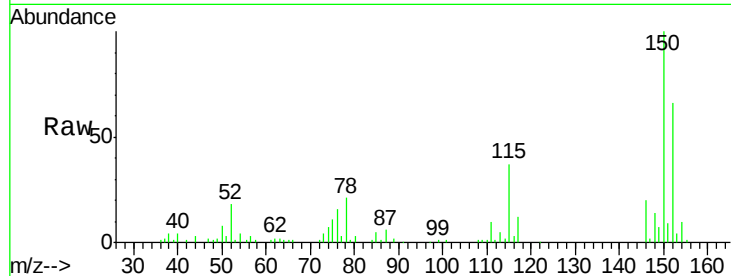
ClientSampleId :

MDL06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 49.1  | 32.2  | 48.4# |
| 148     | 72.0  | 50.8  | 76.2  |

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#66

1,2-Dibromo-3-chloropropane

Concen: 1.774 ug/L

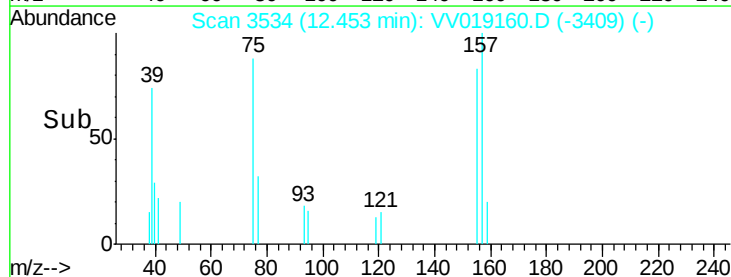
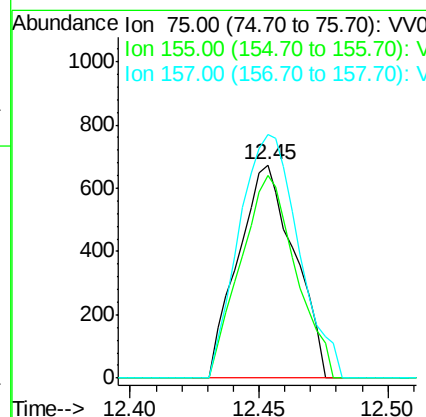
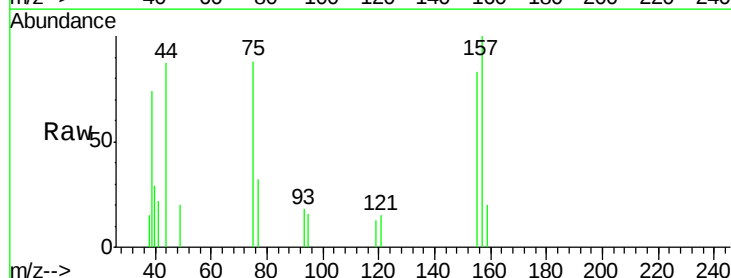
RT: 12.45 min Scan# 3534

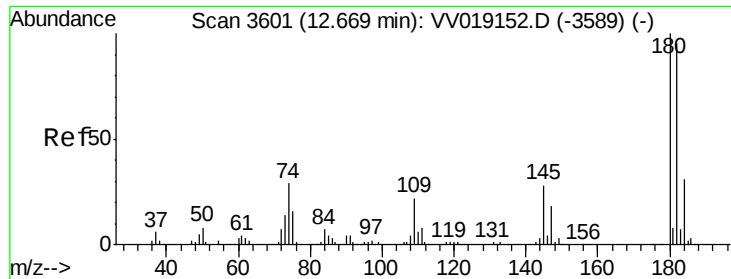
Delta R.T. 0.00 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 95.1  | 71.1  | 106.7 |
| 157     | 114.3 | 90.5  | 135.7 |





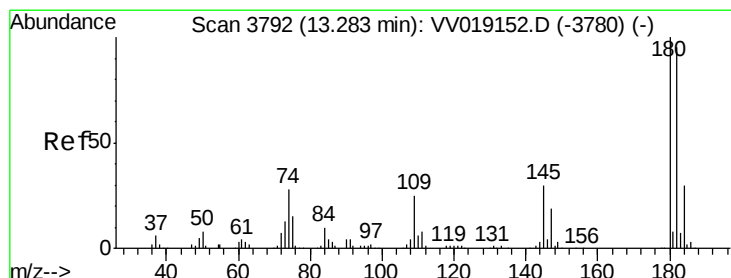
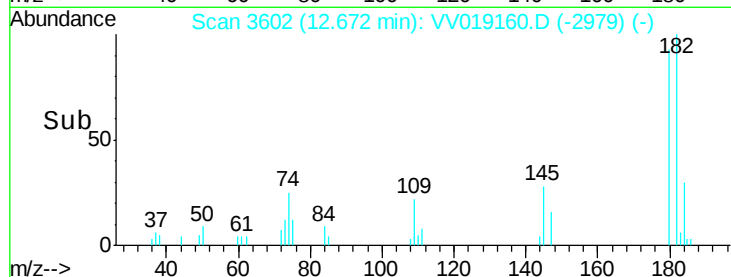
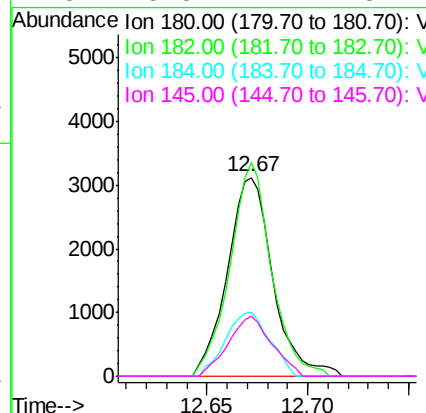
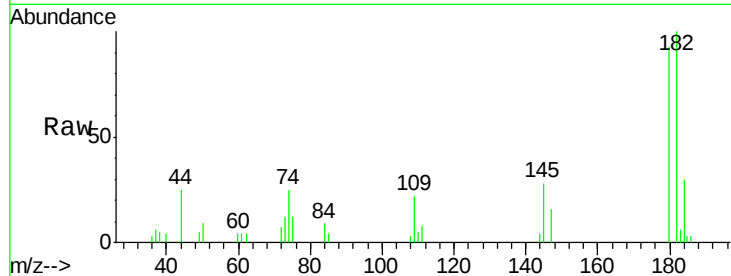
#67  
 1,3,5-Trichlorobenzene  
 Concen: 1.962 ug/L  
 RT: 12.67 min Scan# 3602  
 Delta R.T. 0.00 min  
 Lab File: VV019160.D  
 Acq: 29 Oct 2020 21:12

Instrument :  
 MSVOA\_V  
 ClientSampled :  
 MDL06

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 98.2  | 76.1  | 114.1 |
| 184     | 31.3  | 24.5  | 36.7  |
| 145     | 28.8  | 22.7  | 34.1  |

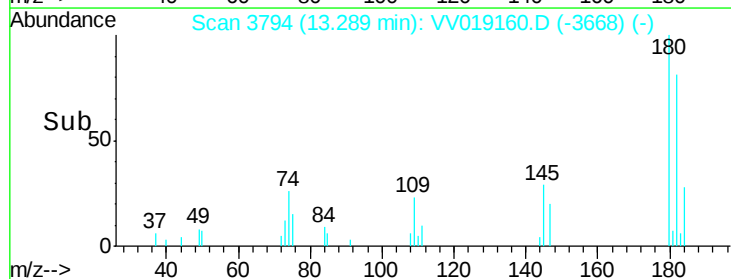
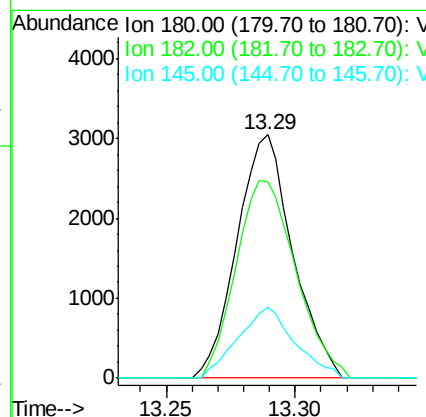
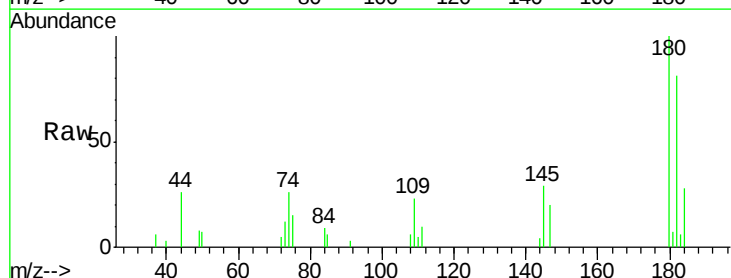
Manual Integrations  
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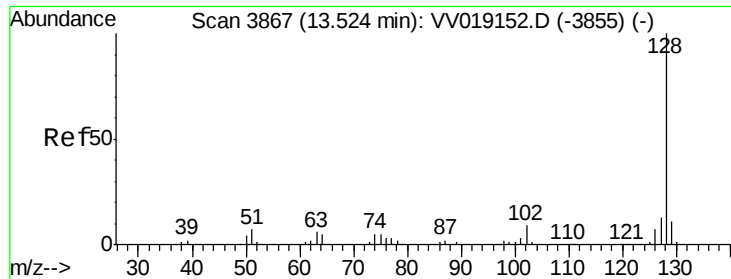
MMDadoda  
 11/2/2020 2:27:09 PM



#68  
 1,2,4-trichlorobenzene  
 Concen: 1.960 ug/L  
 RT: 13.29 min Scan# 3794  
 Delta R.T. 0.01 min  
 Lab File: VV019160.D  
 Acq: 29 Oct 2020 21:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 87.1  | 75.8  | 113.6 |
| 145     | 29.6  | 22.6  | 34.0  |





#69

Naphthalene

Concen: 1.563 ug/L

RT: 13.53 min Scan# 3869

Delta R.T. 0.01 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

Instrument :

MSVOA\_V

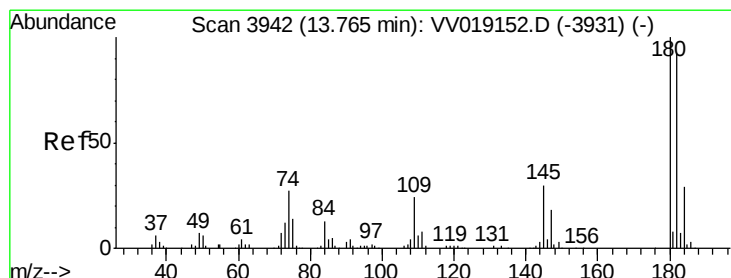
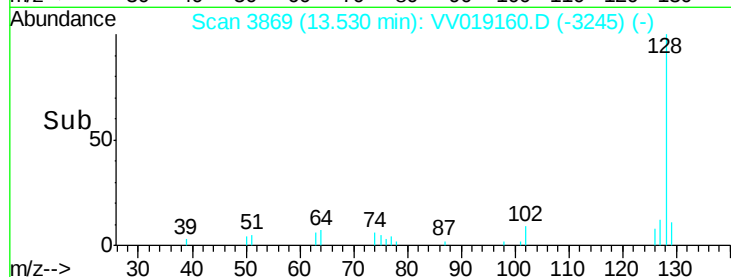
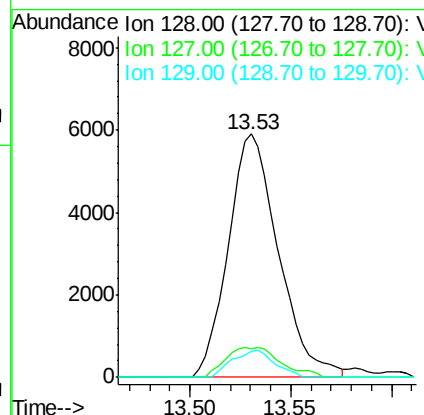
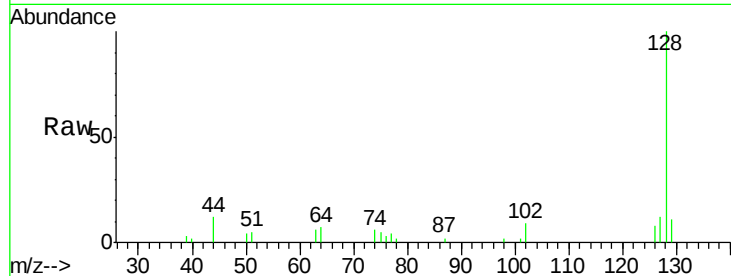
ClientSampleId :

MDL06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 10270 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 6.7   | 10.8  | 16.2# |
| 129       | 9.3   | 8.6   | 13.0  |

Manual Integrations  
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11/2/2020 2:27:09 PM



#70

1,2,3-Trichlorobenzene

Concen: 1.729 ug/L

RT: 13.77 min Scan# 3944

Delta R.T. 0.01 min

Lab File: VV019160.D

Acq: 29 Oct 2020 21:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 3969  |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 110.3 | 76.2  | 114.4 |
| 145       | 33.0  | 25.1  | 37.7  |

