

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061920\  
 Data File : VN061961.D  
 Acq On : 19 Jun 2020 18:47  
 Operator : JC/MD  
 Sample : L3033-03  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SS043MW011-200615

Manual Integrations  
 APPROVED

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 6/22/2020 1:27:09 PM

Quant Time: Jun 22 01:12:46 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jun 17 01:19:44 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 7.63  | 168  | 149073   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.55  | 114  | 274874   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.38 | 117  | 275018   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.32 | 152  | 108224   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 7.99  | 65   | 99513    | 49.77   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 99.54%  |          |
| 35) Dibromofluoromethane    | 7.55  | 113  | 87980    | 50.03   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 100.06% |          |
| 50) Toluene-d8              | 10.06 | 98   | 342250   | 49.51   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 99.02%  |          |
| 62) 4-Bromofluorobenzene    | 12.38 | 95   | 117571   | 49.58   | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =       | 99.16%  |          |
| Target Compounds            |       |      |          |         |         |          |
|                             |       |      |          |         | Qvalue  |          |
| 6) Chloroethane             | 2.67  | 64   | 7421     | 4.445   | ug/l    | 98       |
| 8) Diethyl Ether            | 3.38  | 74   | 7608     | 7.680   | ug/l    | 85       |
| 11) Tert butyl alcohol      | 4.73  | 59   | 13064    | 47.220  | ug/l #  | 81       |
| 16) Acetone                 | 3.79  | 43   | 3542m    | 5.998   | ug/l    |          |
| 29) Tetrahydrofuran         | 7.17  | 42   | 7045     | 12.424  | ug/l    | 91       |
| 40) Benzene                 | 8.00  | 78   | 20509    | 2.700   | ug/l    | 98       |
| 49) 1,4-Dioxane             | 9.17  | 88   | 26707    | 775.266 | ug/l    | 97       |
| 52) Toluene                 | 10.13 | 92   | 16772    | 3.516   | ug/l    | 96       |
| 65) Chlorobenzene           | 11.41 | 112  | 1400945  | 241.413 | ug/l    | 100      |
| 68) m/p-Xylenes             | 11.59 | 106  | 5035     | 1.342   | ug/l    | 98       |
| 69) o-Xylene                | 11.92 | 106  | 2112     | 0.590   | ug/l    | 95       |
| 73) Isopropylbenzene        | 12.23 | 105  | 3906     | 0.508   | ug/l    | 95       |
| 78) n-propylbenzene         | 12.57 | 91   | 3291     | 0.375   | ug/l    | 94       |
| 79) 2-Chlorotoluene         | 12.65 | 91   | 4586     | 0.870   | ug/l    | 93       |
| 84) 1,2,4-Trimethylbenzene  | 13.02 | 105  | 3815     | 0.607   | ug/l    | 97       |
| 85) sec-Butylbenzene        | 13.15 | 105  | 2561     | 0.363   | ug/l #  | 70       |
| 87) 1,3-Dichlorobenzene     | 13.26 | 146  | 7490     | 2.117   | ug/l    | 95       |
| 88) 1,4-Dichlorobenzene     | 13.34 | 146  | 53234    | 14.696  | ug/l    | 98       |
| 91) 1,2-Dichlorobenzene     | 13.63 | 146  | 18987    | 5.573   | ug/l    | 99       |

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

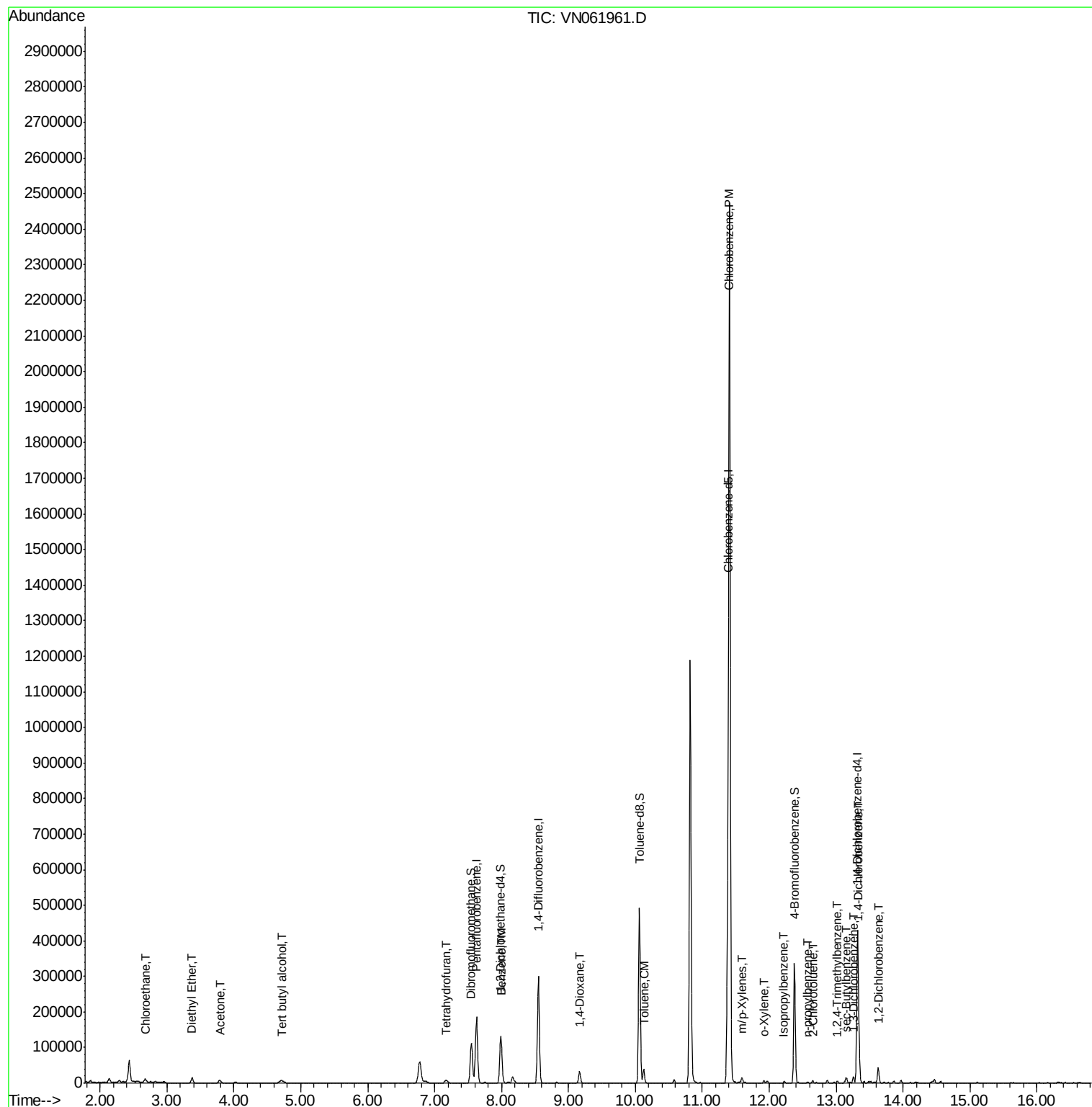
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061920\  
Data File : VN061961.D  
Acq On : 19 Jun 2020 18:47  
Operator : JC/MD  
Sample : L3033-03  
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ALS Vial : 20 Sample Multiplier: 1

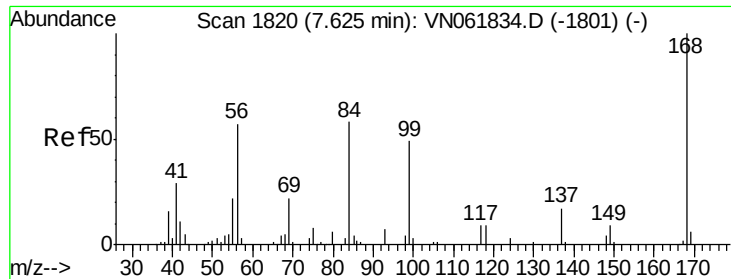
Instrument :  
MSVOA\_N  
ClientSampleId :  
SS043MW011-200615

Manual Integrations  
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Quant Time: Jun 22 01:12:46 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N061620W.M  
Quant Title : SW846 8260  
QLast Update : Wed Jun 17 01:19:44 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061961.D

Acq: 19 Jun 2020 18:47

Instrument :

MSVOA\_N

ClientSampleId :

SS043MW011-200615

Tot Ion:168 Resp: 149073

Ion Ratio Lower Upper

168 100

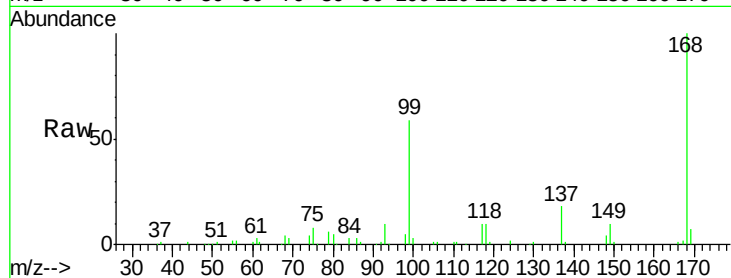
99 58.5 44.6 67.0

Manual Integrations

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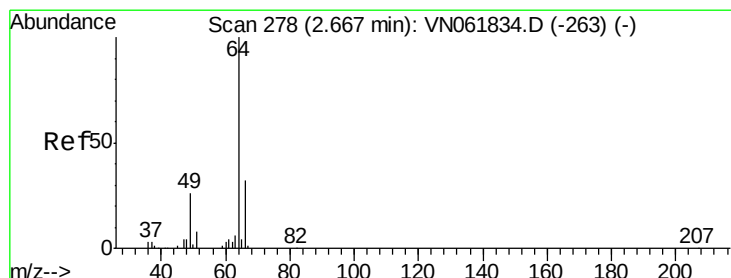
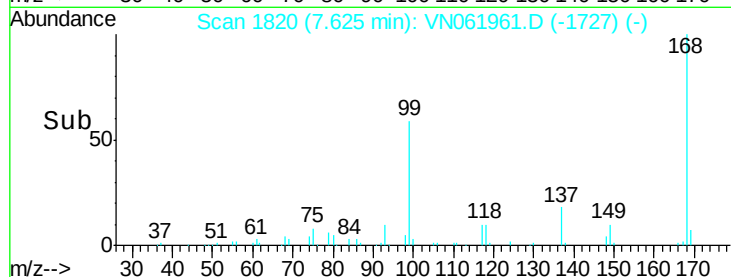
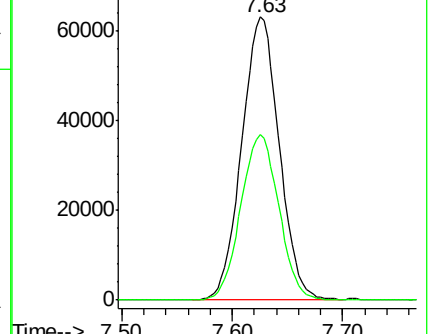
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#6

Chloroethane

Concen: 4.445 ug/l

RT: 2.67 min Scan# 280

Delta R.T. 0.01 min

Lab File: VN061961.D

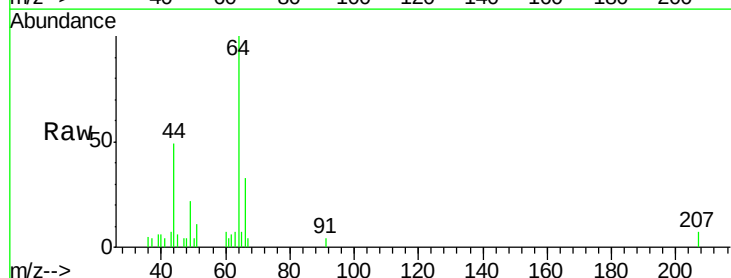
Acq: 19 Jun 2020 18:47

Tgt Ion: 64 Resp: 7421

Ion Ratio Lower Upper

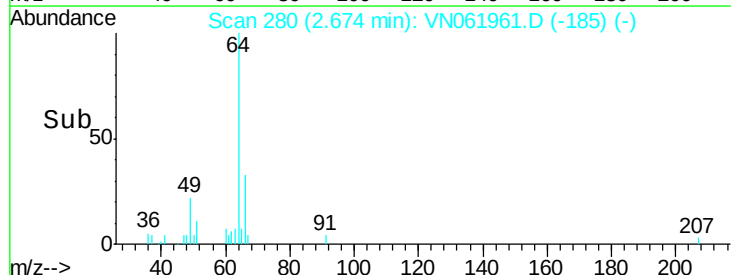
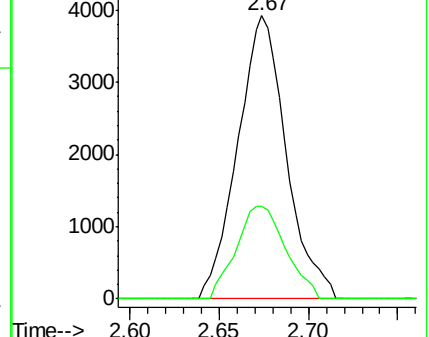
64 100

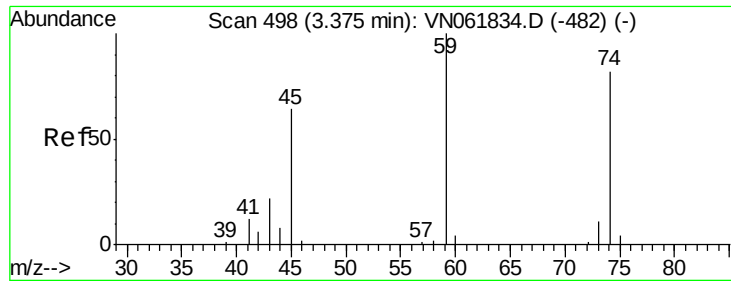
66 32.9 25.4 38.2



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#8

Diethyl Ether

Concen: 7.680 ug/l

RT: 3.38 min Scan# 499

Delta R.T. 0.00 min

Lab File: VN061961.D

Acq: 19 Jun 2020 18:47

Instrument :

MSVOA\_N

ClientSampleId :

SS043MW011-200615

Tot Ion: 74 Resp: 7608

Ion Ratio Lower Upper

74 100

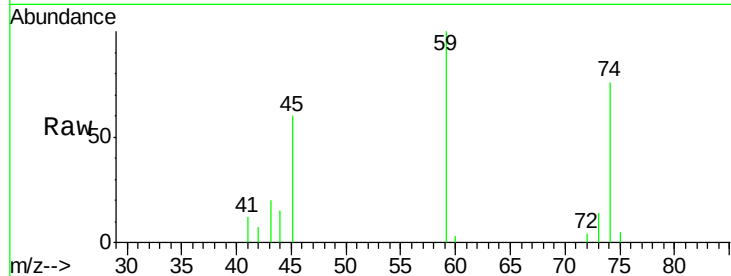
45 90.9 39.1 117.3

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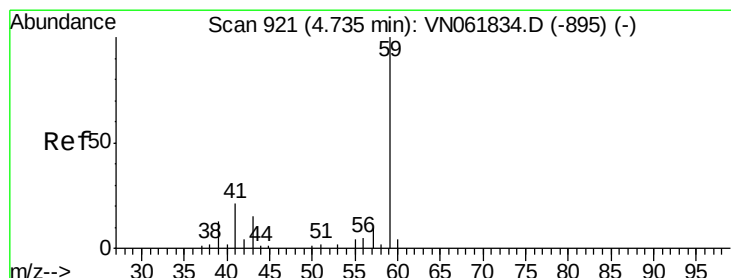
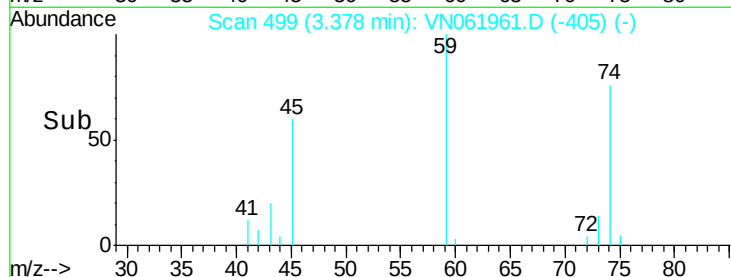
Abundance Ion 74.00 (73.70 to 74.70): VN061834.D (-482) (-)

Ion 45.00 (44.70 to 45.70): VN061834.D (-482) (-)

3.38

3.35 3.40 3.45

Time-->



#11

Tert butyl alcohol

Concen: 47.220 ug/l

RT: 4.73 min Scan# 918

Delta R.T. -0.01 min

Lab File: VN061961.D

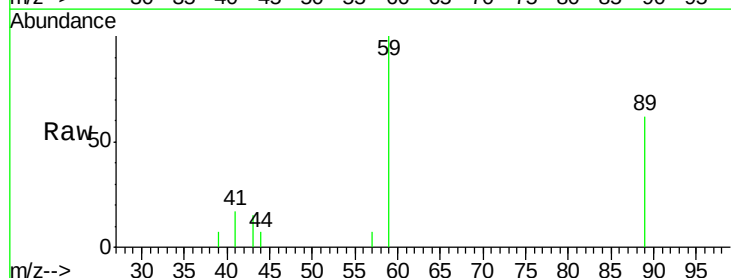
Acq: 19 Jun 2020 18:47

Tgt Ion: 59 Resp: 13064

Ion Ratio Lower Upper

59 100

57 2.7 7.7 11.5#



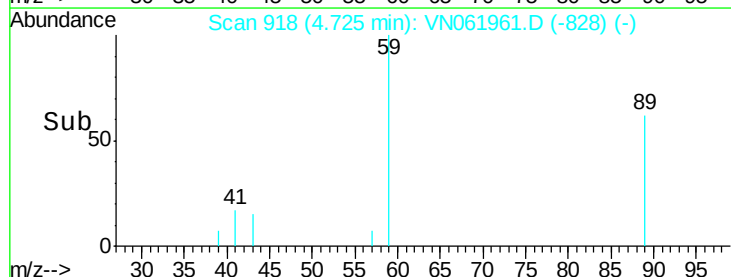
Abundance Ion 59.00 (58.70 to 59.70): VN061834.D (-895) (-)

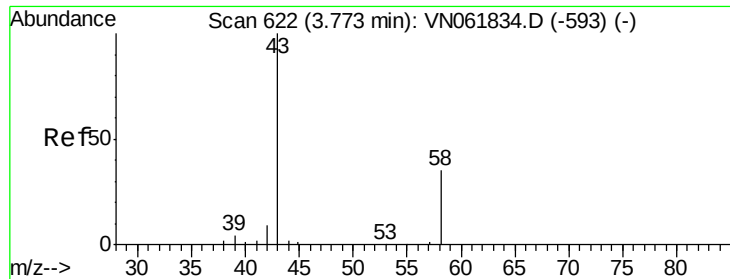
Ion 57.00 (56.70 to 57.70): VN061834.D (-895) (-)

4.73

4.60 4.70 4.80

Time-->





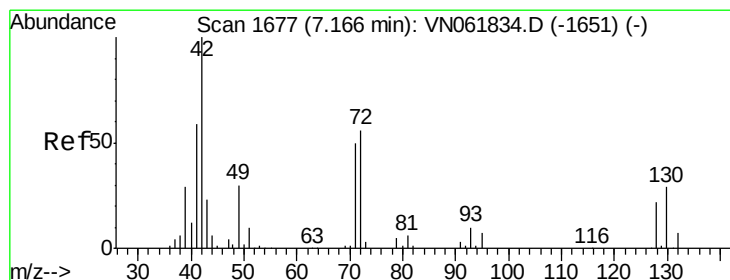
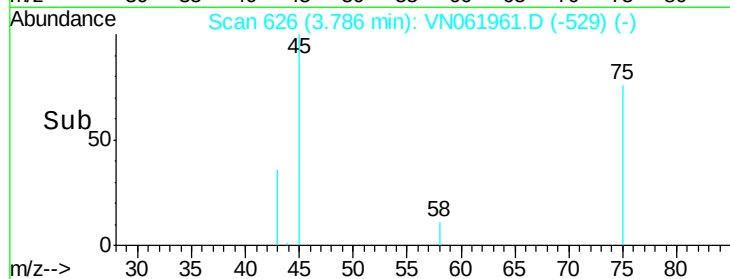
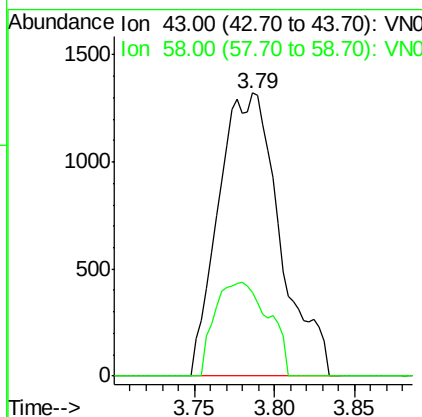
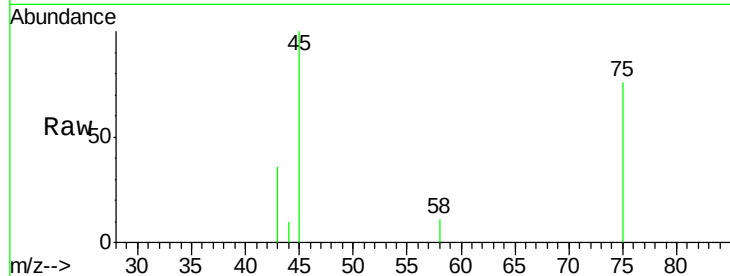
#16  
Acetone  
Concen: 5.998 ug/l m  
RT: 3.79 min Scan# 626  
Delta R.T. 0.01 min  
Lab File: VN061961.D  
Acq: 19 Jun 2020 18:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
SS043MW011-200615

Tot Ion: 43 Resp: 3542  
Ion Ratio Lower Upper  
43 100  
58 29.7 27.8 41.8

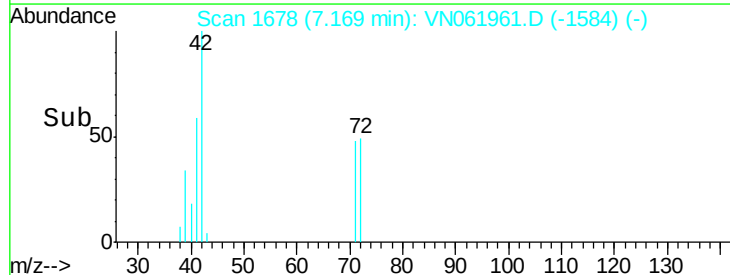
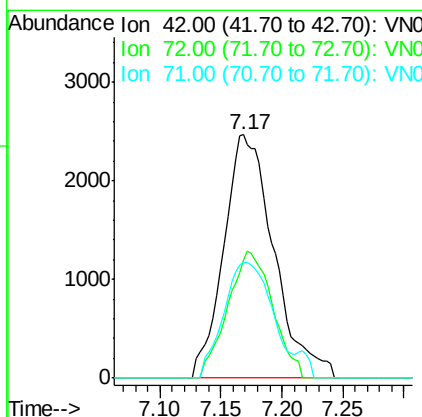
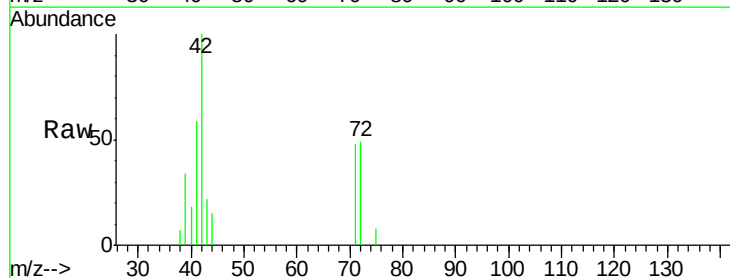
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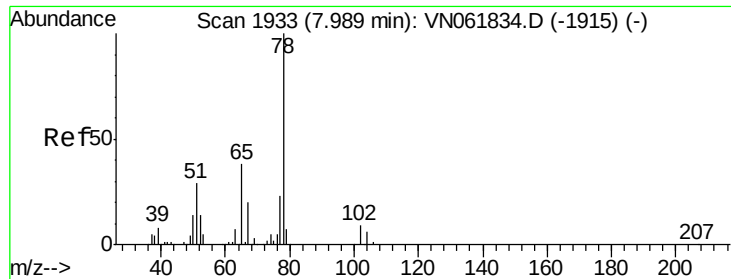
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#29  
Tetrahydrofuran  
Concen: 12.424 ug/l  
RT: 7.17 min Scan# 1678  
Delta R.T. 0.00 min  
Lab File: VN061961.D  
Acq: 19 Jun 2020 18:47

Tgt Ion: 42 Resp: 7045  
Ion Ratio Lower Upper  
42 100  
72 46.6 44.0 66.0  
71 45.9 40.0 60.0





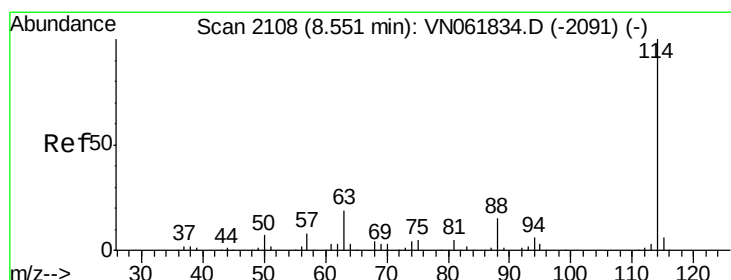
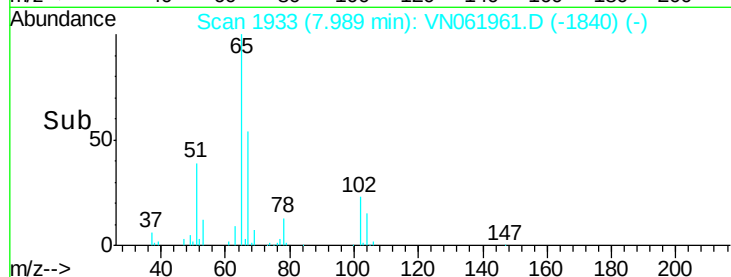
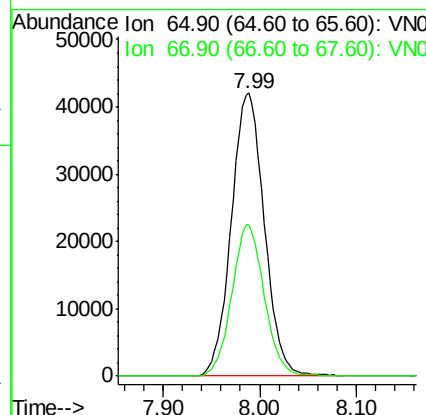
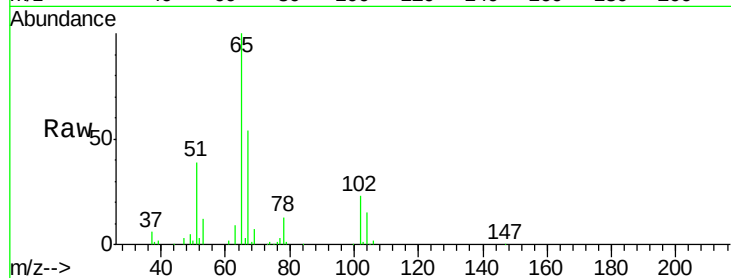
#33  
 1,2-Dichloroethane-d4  
 Concen: 49.774 ug/l  
 RT: 7.99 min Scan# 1933  
 Delta R.T. -0.00 min  
 Lab File: VN061961.D  
 Acq: 19 Jun 2020 18:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SS043MW011-200615

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 65      | 100   | 99513 |       |       |
| 67      | 52.3  | 0.0   | 106.2 |       |

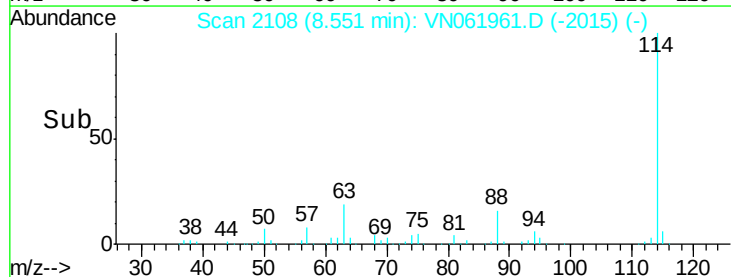
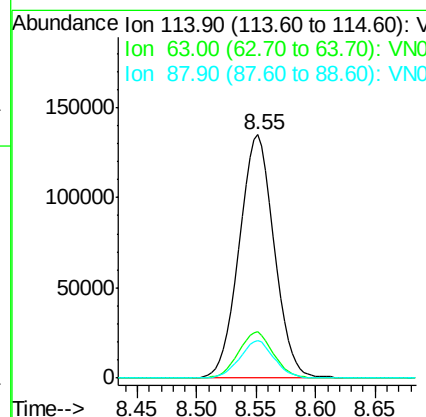
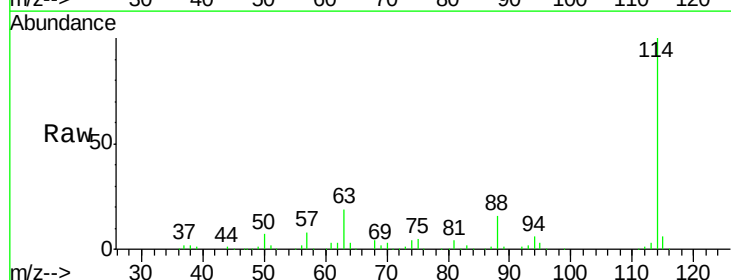
Manual Integrations  
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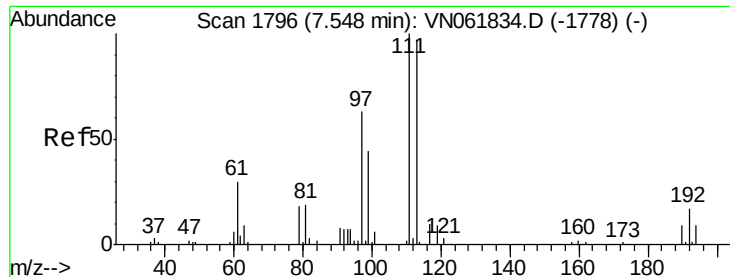
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#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2108  
 Delta R.T. -0.00 min  
 Lab File: VN061961.D  
 Acq: 19 Jun 2020 18:47

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 274874 |       |       |
| 63      | 18.9  | 0.0    | 37.6  |       |
| 88      | 15.5  | 0.0    | 31.0  |       |





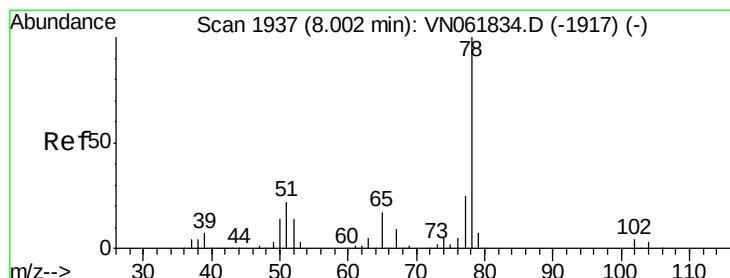
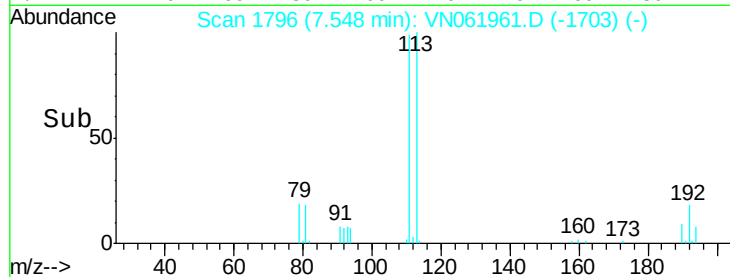
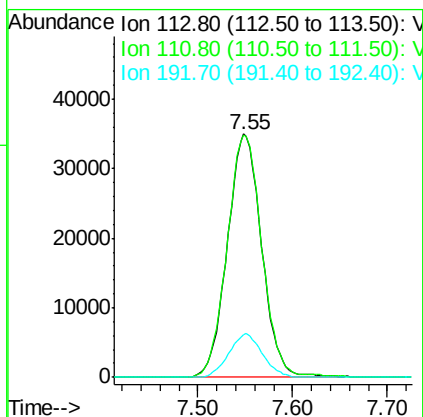
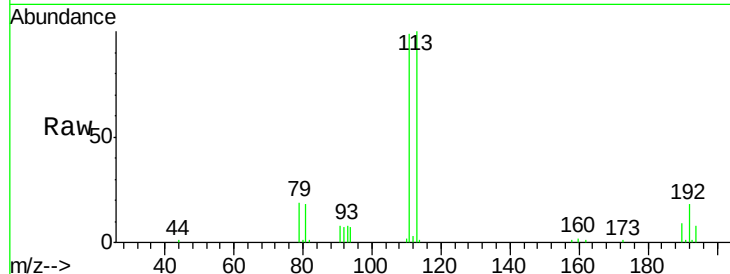
#35  
 Dibromofluoromethane  
 Concen: 50.031 ug/l  
 RT: 7.55 min Scan# 1796  
 Delta R.T. -0.00 min  
 Lab File: VN061961.D  
 Acq: 19 Jun 2020 18:47

Instrument :  
 MSVOA\_N  
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 SS043MW011-200615

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 100.4 | 83.7  | 125.5 |
| 192     | 17.4  | 13.9  | 20.9  |

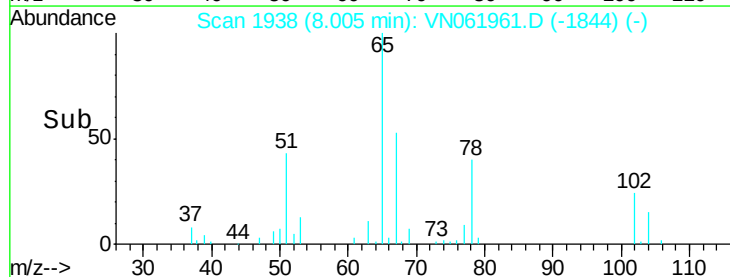
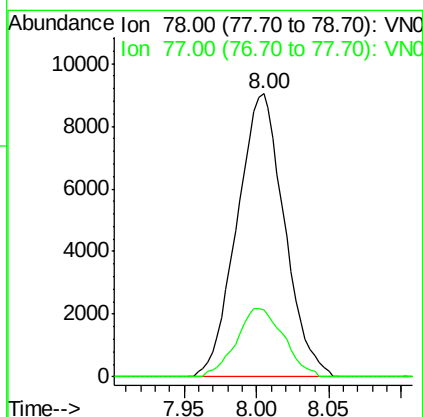
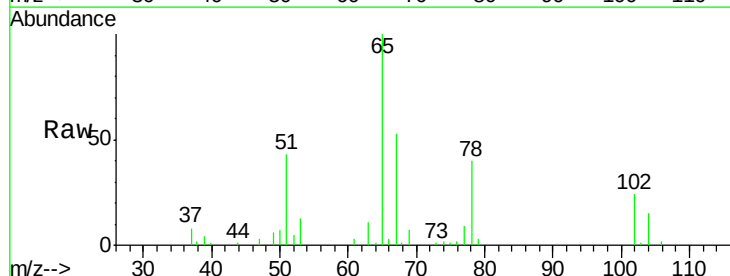
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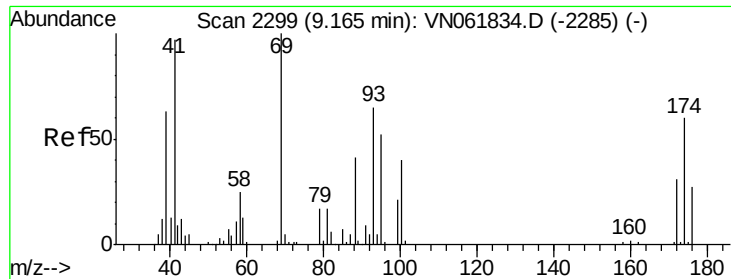
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#40  
 Benzene  
 Concen: 2.700 ug/l  
 RT: 8.00 min Scan# 1938  
 Delta R.T. 0.00 min  
 Lab File: VN061961.D  
 Acq: 19 Jun 2020 18:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.6  | 19.7  | 29.5  |





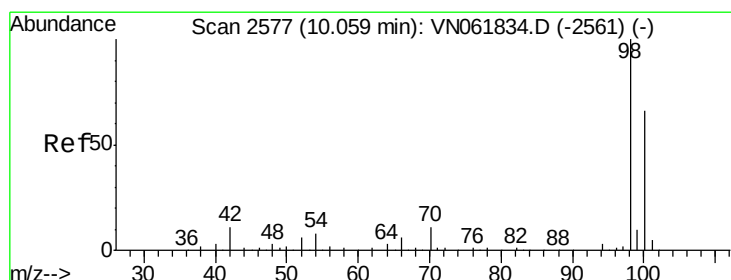
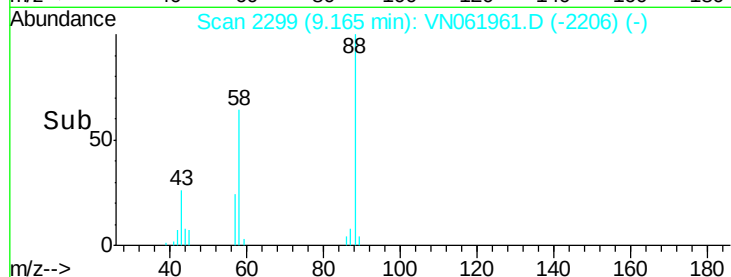
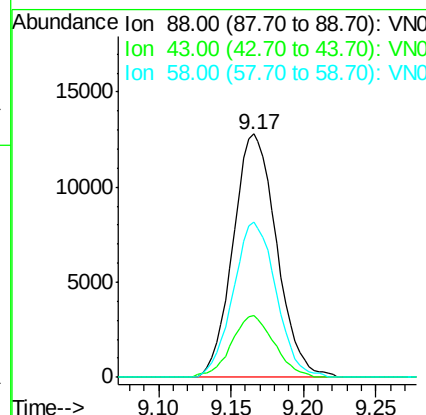
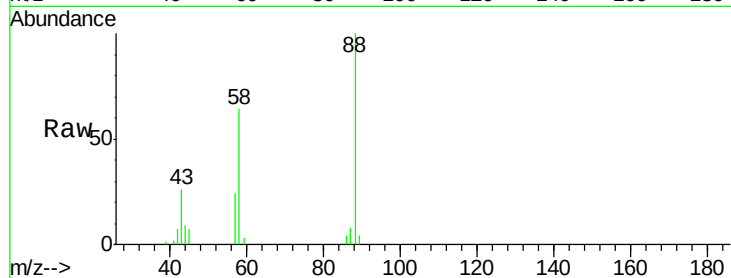
#49  
1,4-Dioxane  
Concen: 775.266 ug/l  
RT: 9.17 min Scan# 2299  
Delta R.T. -0.00 min  
Lab File: VN061961.D  
Acq: 19 Jun 2020 18:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
SS043MW011-200615

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 25.0  | 23.4  | 35.2  |
| 58      | 62.9  | 49.8  | 74.6  |

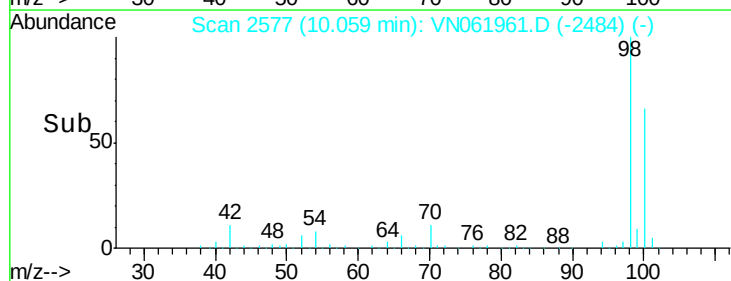
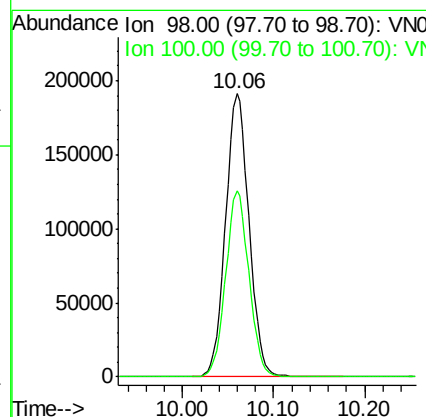
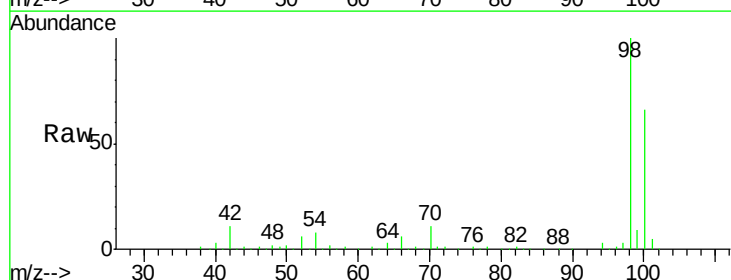
Manual Integrations  
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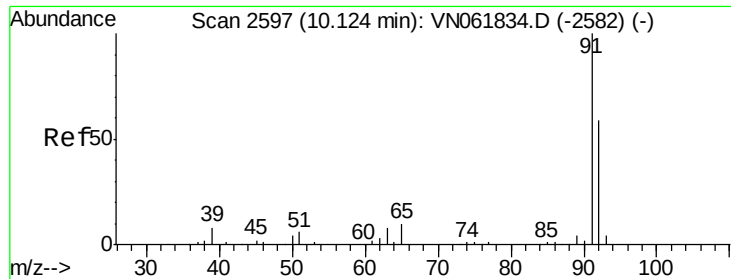


#50  
Toluene-d8  
Concen: 49.505 ug/l  
RT: 10.06 min Scan# 2577  
Delta R.T. -0.00 min  
Lab File: VN061961.D  
Acq: 19 Jun 2020 18:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 65.2  | 52.7  | 79.1  |







#52

Toluene

Concen: 3.516 ug/l

RT: 10.13 min Scan# 2598

Delta R.T. 0.00 min

Lab File: VN061961.D

Acq: 19 Jun 2020 18:47

Instrument :

MSVOA\_N

ClientSampleId :

SS043MW011-200615

Tot Ion: 92 Resp: 16772

Ion Ratio Lower Upper

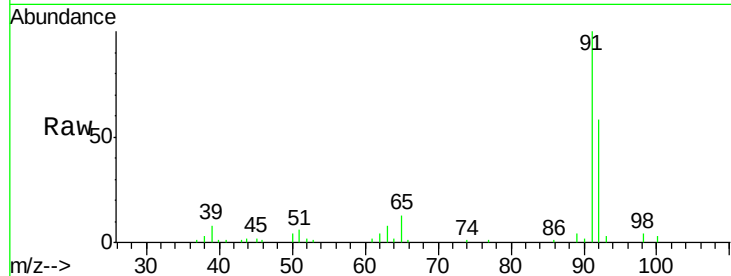
92 100

91 176.7 137.1 205.7

Manual Integrations  
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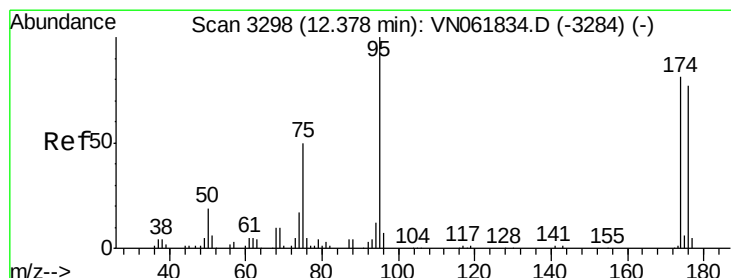
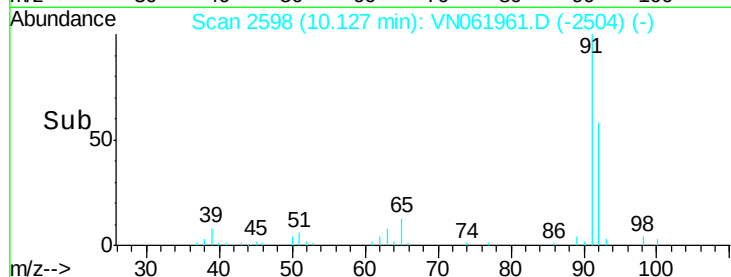
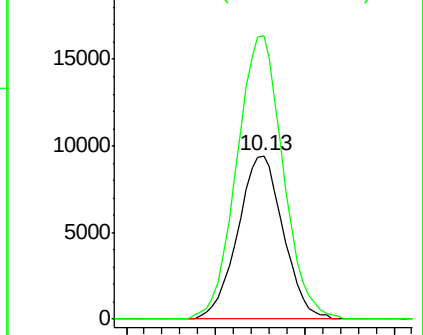
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Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#62

4-Bromofluorobenzene

Concen: 49.579 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061961.D

Acq: 19 Jun 2020 18:47

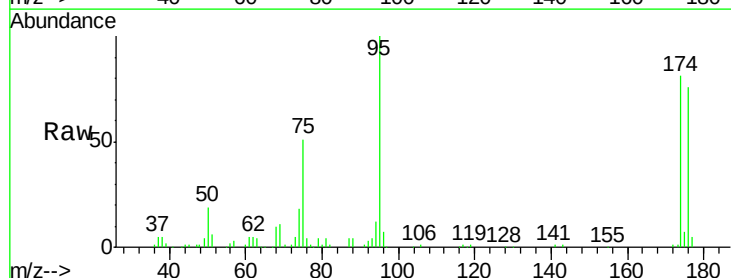
Tgt Ion: 95 Resp: 117571

Ion Ratio Lower Upper

95 100

174 80.2 0.0 158.6

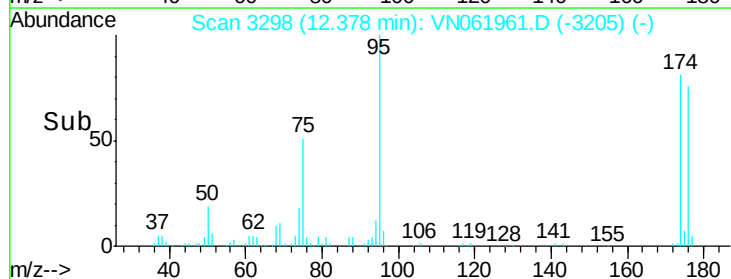
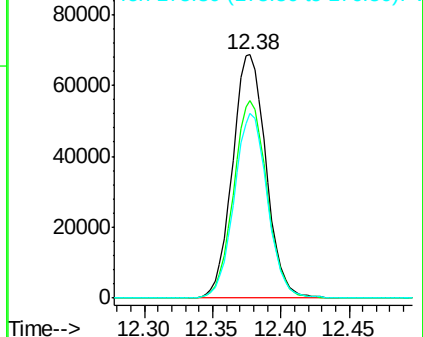
176 75.0 0.0 152.0

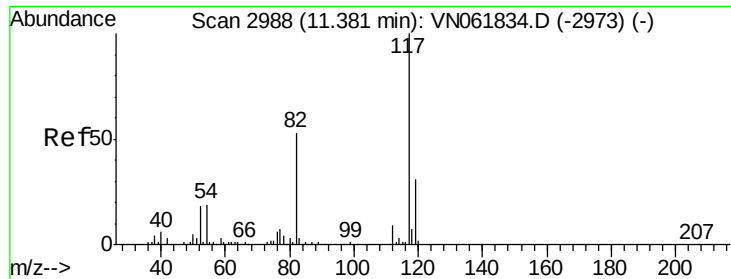


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





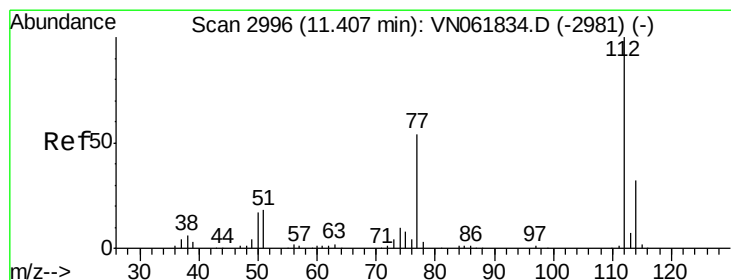
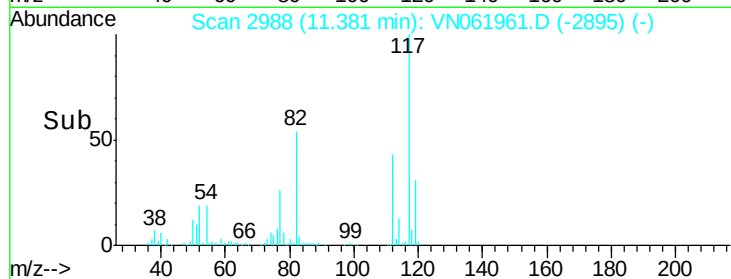
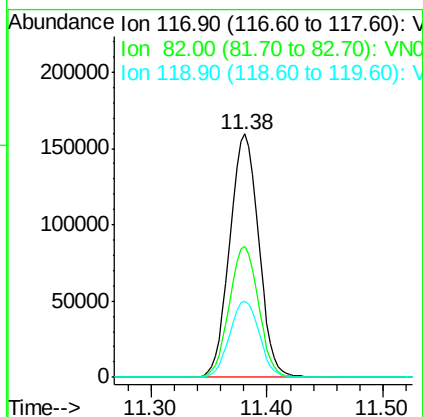
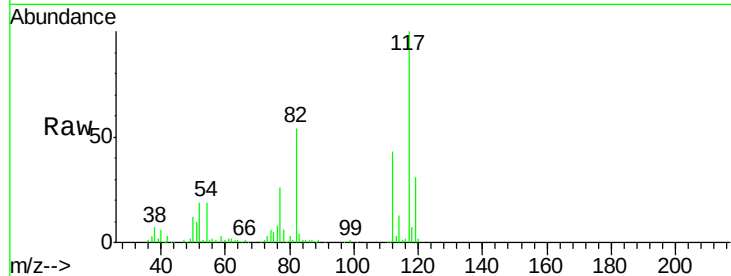
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2988  
Delta R.T. -0.00 min  
Lab File: VN061961.D  
Acq: 19 Jun 2020 18:47

Instrument :  
MSVOA\_N  
ClientSampleId :  
SS043MW011-200615

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.9  | 42.6  | 64.0  |
| 119     | 31.4  | 24.7  | 37.1  |

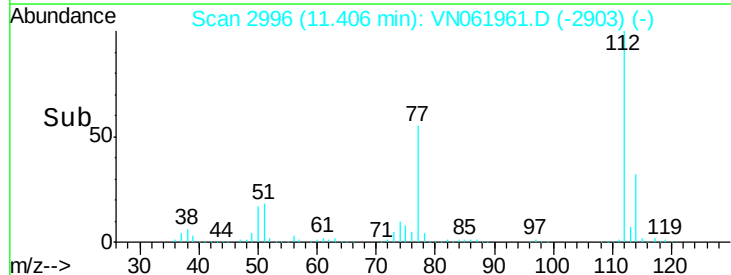
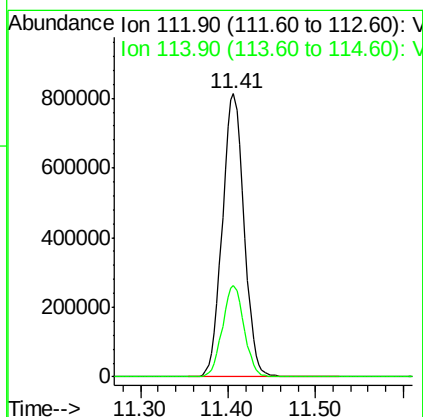
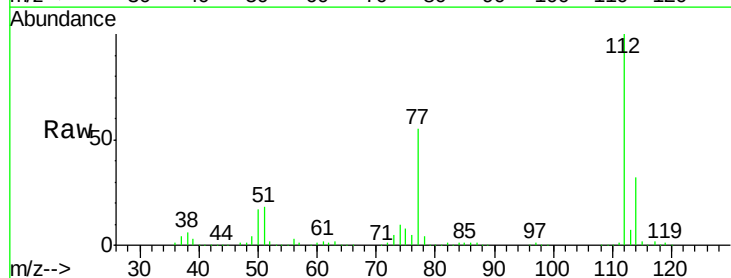
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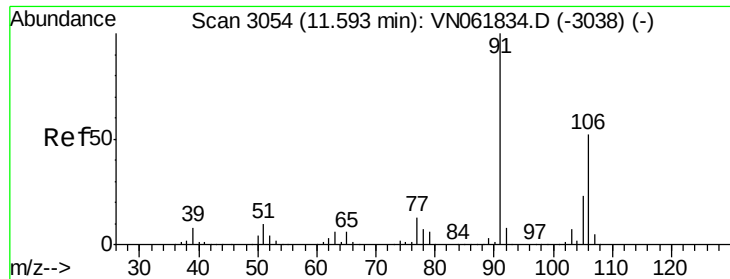
MMDadoda  
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#65  
Chlorobenzene  
Concen: 241.413 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: VN061961.D  
Acq: 19 Jun 2020 18:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 114     | 32.3  | 25.8  | 38.6  |





#68

m/p-Xylenes

Concen: 1.342 ug/l

RT: 11.59 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN061961.D

Acq: 19 Jun 2020 18:47

Instrument :

MSVOA\_N

ClientSampleId :

SS043MW011-200615

Tot Ion:106 Resp: 5035

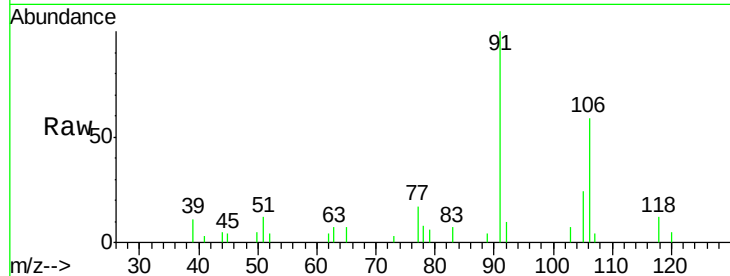
Ion Ratio Lower Upper

106 100

91 192.7 157.0 235.6

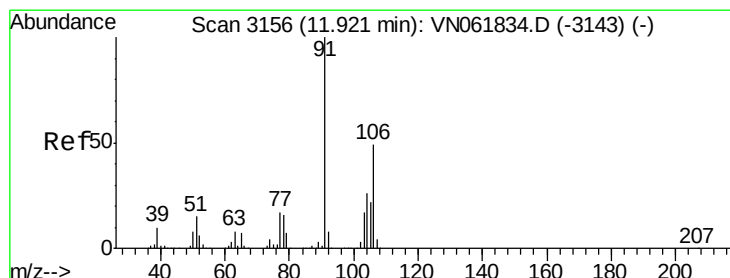
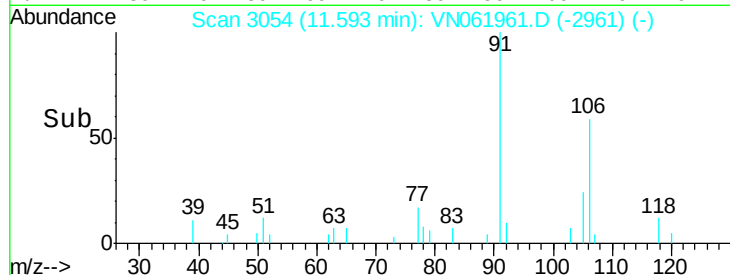
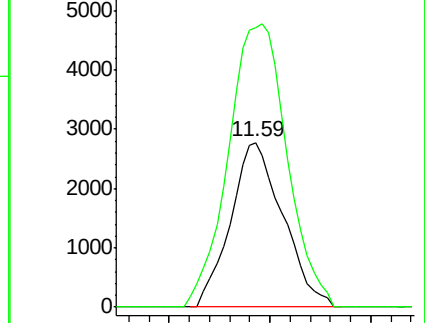
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#69

o-Xylene

Concen: 0.590 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. -0.00 min

Lab File: VN061961.D

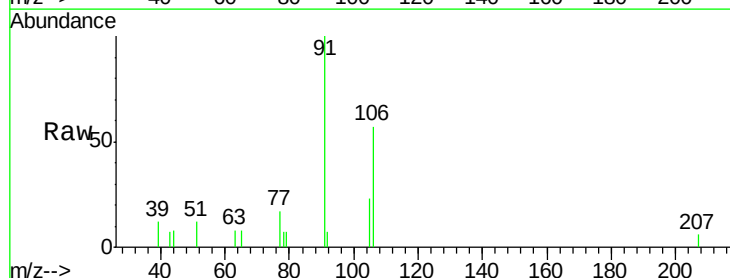
Acq: 19 Jun 2020 18:47

Tgt Ion:106 Resp: 2112

Ion Ratio Lower Upper

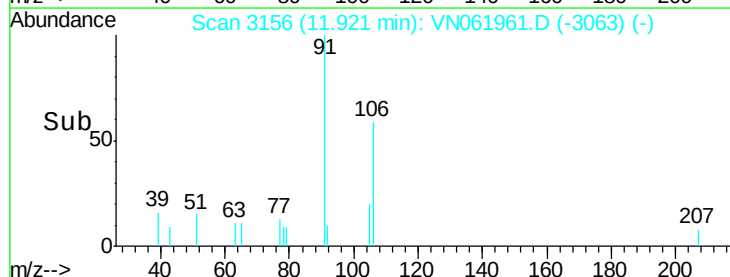
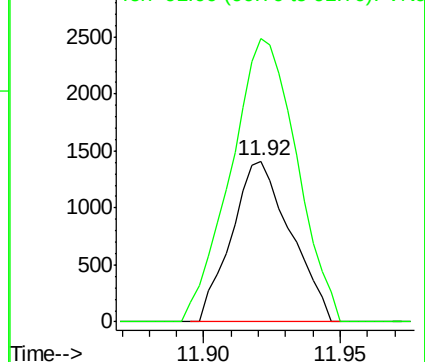
106 100

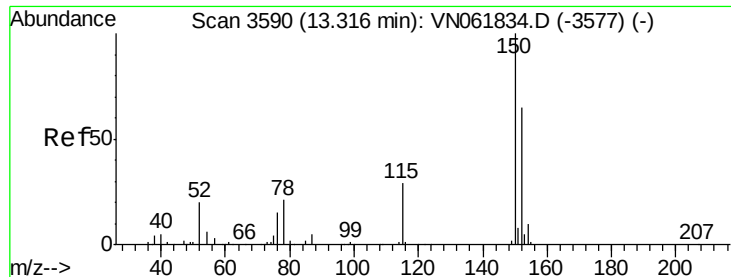
91 197.6 103.0 308.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061961.D

Acq: 19 Jun 2020 18:47

Instrument :

MSVOA\_N

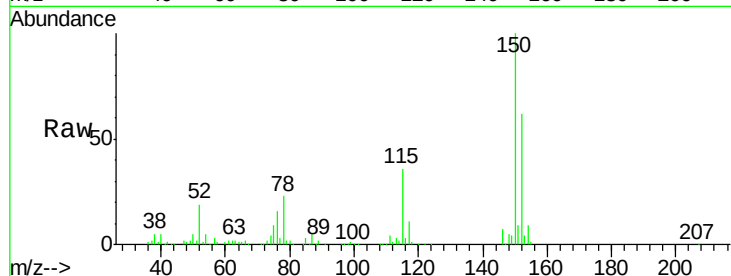
ClientSampleId :

SS043MW011-200615

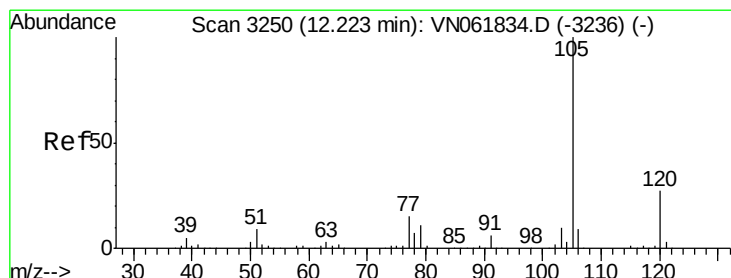
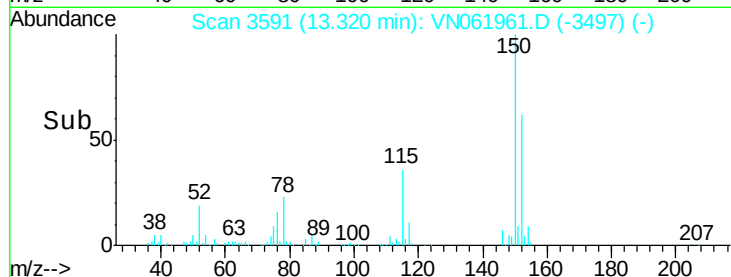
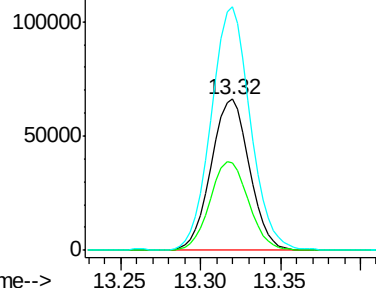
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 108224 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 59.2  | 29.1  | 87.3   |
| 150       | 164.8 | 0.0   | 347.6  |

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



#73

Isopropylbenzene

Concen: 0.508 ug/l

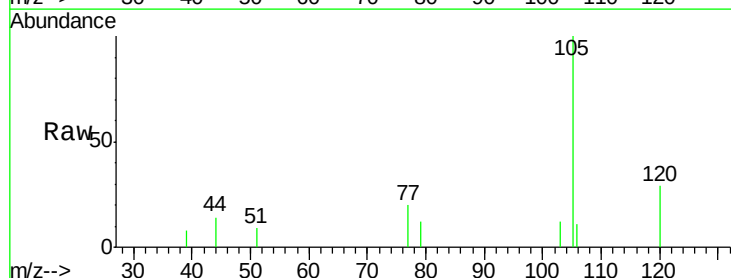
RT: 12.23 min Scan# 3252

Delta R.T. 0.01 min

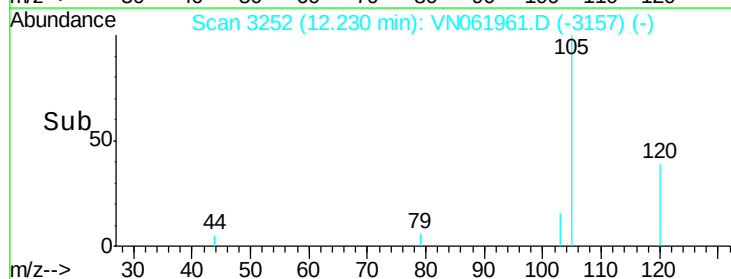
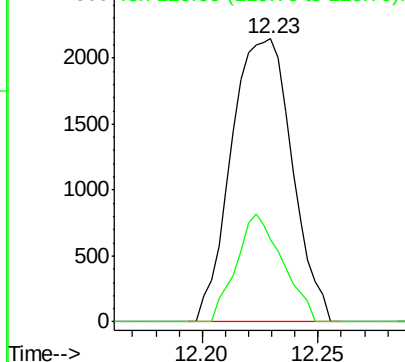
Lab File: VN061961.D

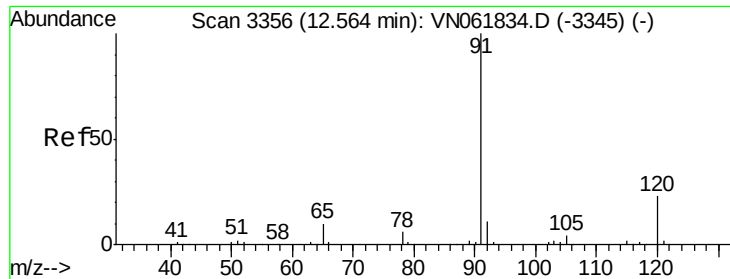
Acq: 19 Jun 2020 18:47

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 105   | Resp: | 3906 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 120       | 29.0  | 13.3  | 39.8 |



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 0.375 ug/l

RT: 12.57 min Scan# 3357

Delta R.T. 0.00 min

Lab File: VN061961.D

Acq: 19 Jun 2020 18:47

Instrument :

MSVOA\_N

ClientSampleId :

SS043MW011-200615

Tot Ion: 91 Resp: 3291

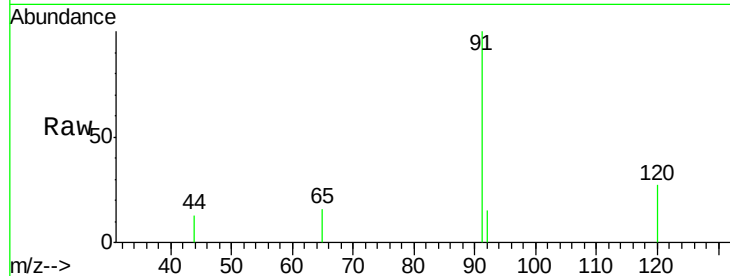
Ion Ratio Lower Upper

91 100

120 20.4 11.6 34.8

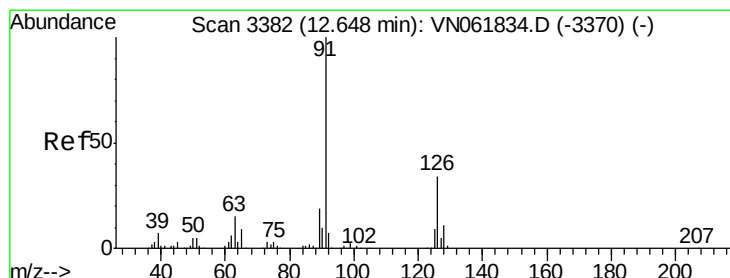
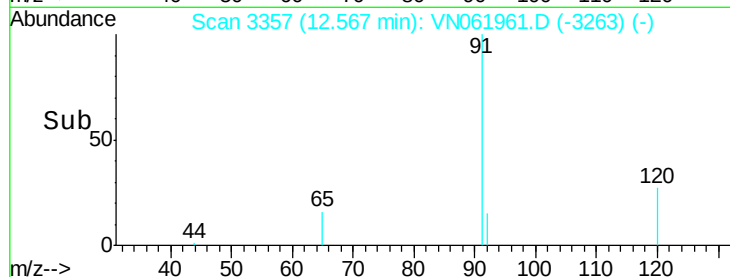
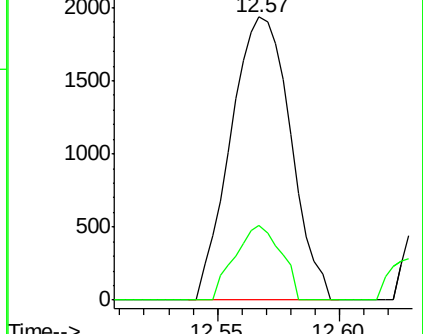
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Abundance Ion 91.00 (90.70 to 91.70): VN061834.D (-3345) (-)

Ion 120.00 (119.70 to 120.70): VN061834.D (-3345) (-)



#79

2-Chlorotoluene

Concen: 0.870 ug/l

RT: 12.65 min Scan# 3383

Delta R.T. 0.00 min

Lab File: VN061961.D

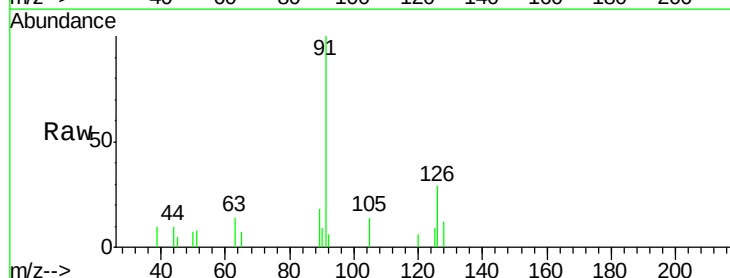
Acq: 19 Jun 2020 18:47

Tgt Ion: 91 Resp: 4586

Ion Ratio Lower Upper

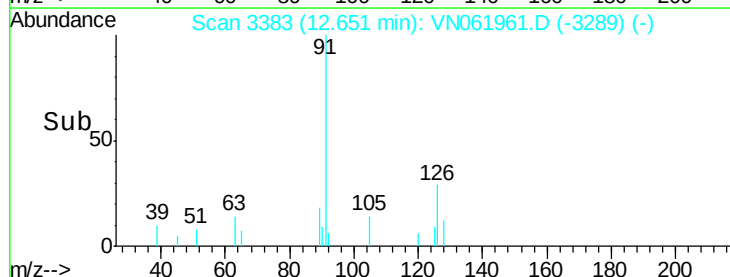
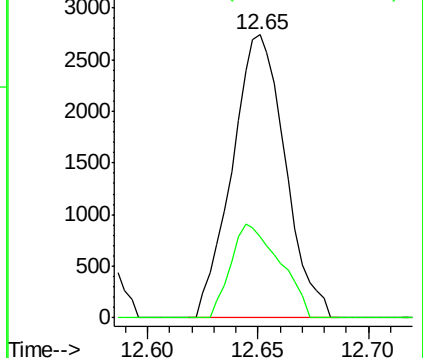
91 100

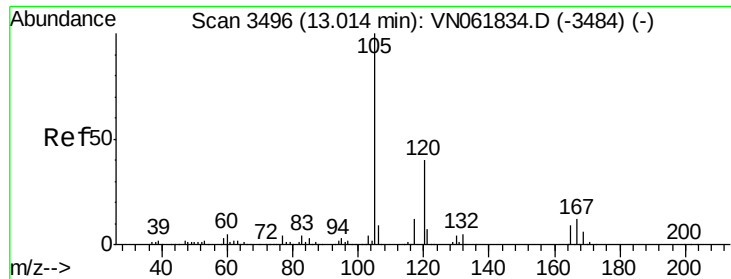
126 30.5 17.3 51.7



Abundance Ion 91.00 (90.70 to 91.70): VN061834.D (-3370) (-)

Ion 125.90 (125.60 to 126.60): VN061834.D (-3370) (-)





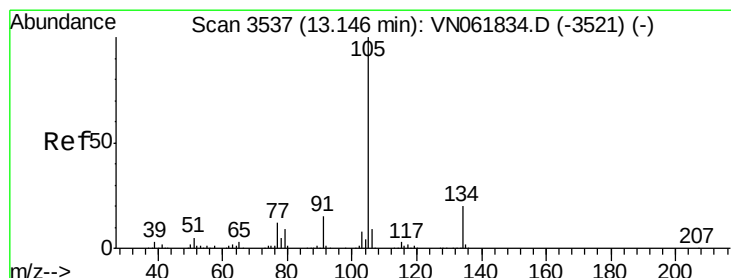
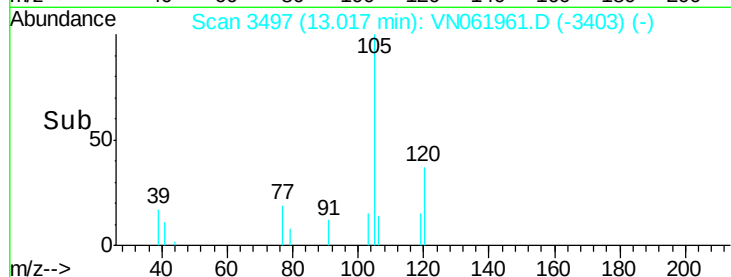
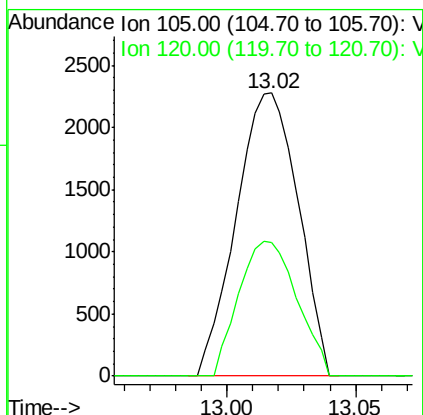
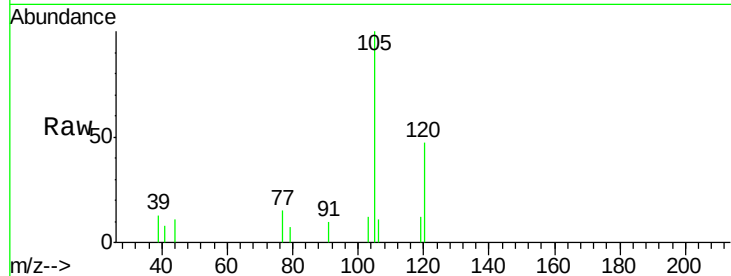
#84  
 1,2,4-Trimethylbenzene  
 Concen: 0.607 ug/l  
 RT: 13.02 min Scan# 3497  
 Delta R.T. 0.00 min  
 Lab File: VN061961.D  
 Acq: 19 Jun 2020 18:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SS043MW011-200615

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 44.8  | 23.3  | 69.9  |

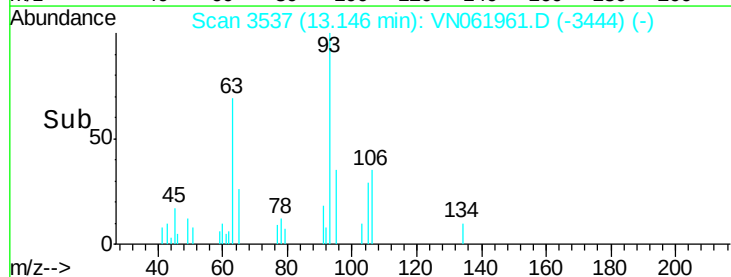
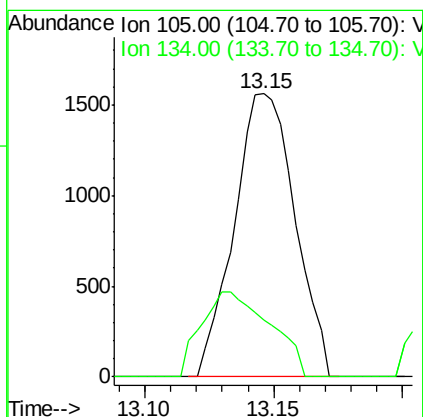
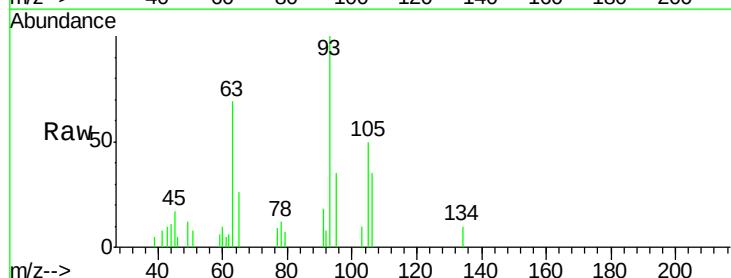
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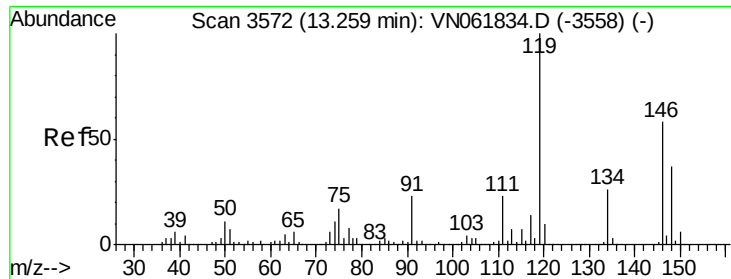
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#85  
 sec-Butylbenzene  
 Concen: 0.363 ug/l  
 RT: 13.15 min Scan# 3537  
 Delta R.T. -0.00 min  
 Lab File: VN061961.D  
 Acq: 19 Jun 2020 18:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 134     | 33.9  | 10.1  | 30.1# |





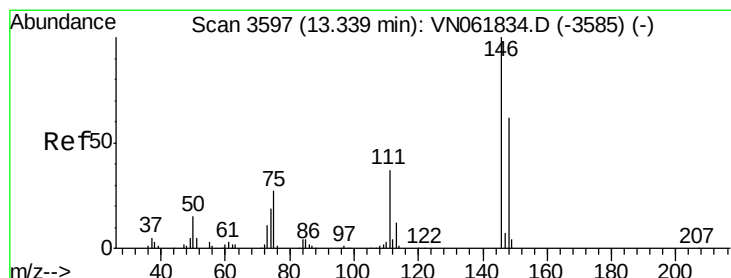
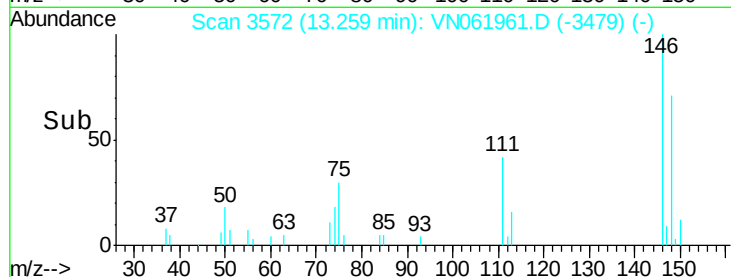
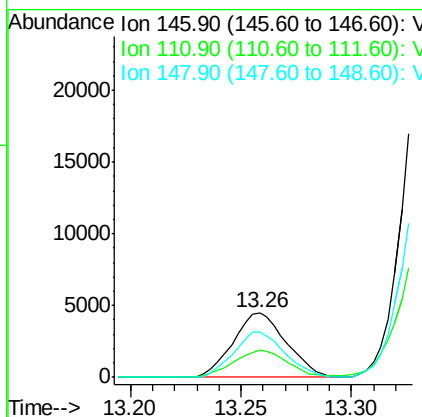
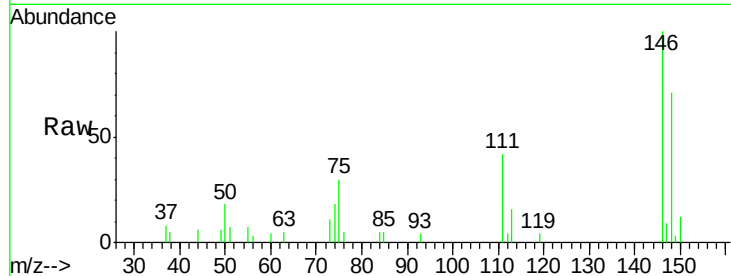
#87  
 1,3-Dichlorobenzene  
 Concen: 2.117 ug/l  
 RT: 13.26 min Scan# 3572  
 Delta R.T. -0.00 min  
 Lab File: VN061961.D  
 Acq: 19 Jun 2020 18:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SS043MW011-200615

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 42.9  | 19.6  | 58.8  |
| 148     | 67.6  | 31.8  | 95.4  |

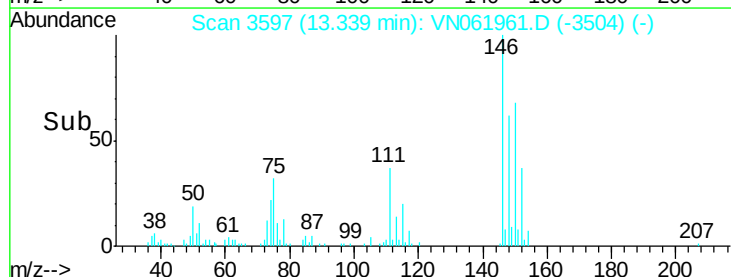
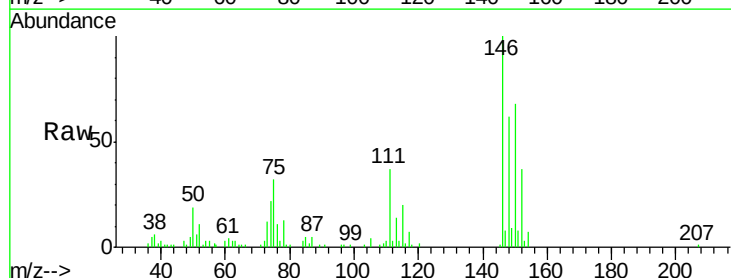
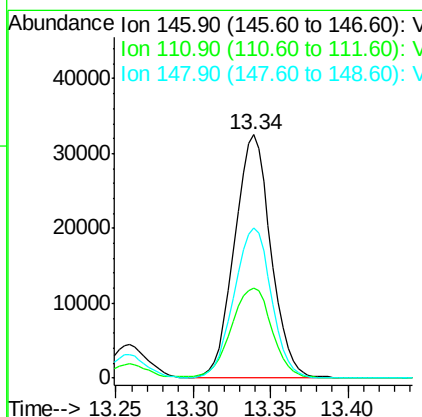
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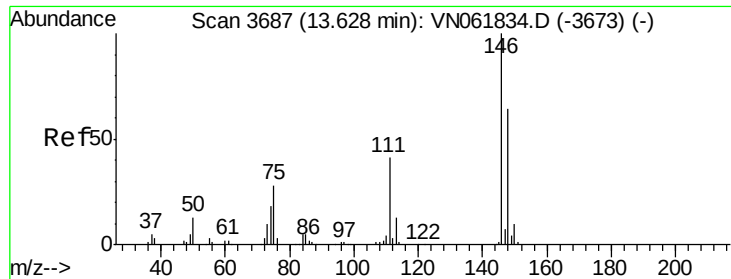
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#88  
 1,4-Dichlorobenzene  
 Concen: 14.696 ug/l  
 RT: 13.34 min Scan# 3597  
 Delta R.T. -0.00 min  
 Lab File: VN061961.D  
 Acq: 19 Jun 2020 18:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 41.4  | 19.3  | 57.8  |
| 148     | 63.4  | 31.6  | 94.7  |





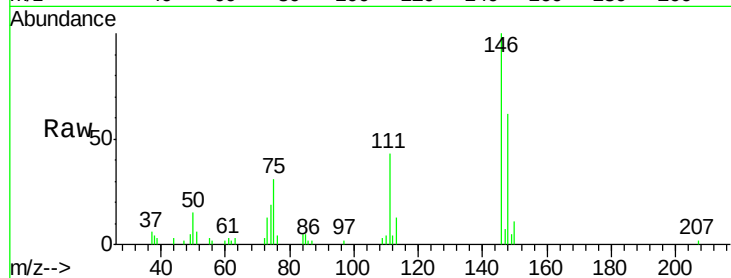
#91  
 1,2-Dichlorobenzene  
 Concen: 5.573 ug/l  
 RT: 13.63 min Scan# 3687  
 Delta R.T. -0.00 min  
 Lab File: VN061961.D  
 Acq: 19 Jun 2020 18:47

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 SS043MW011-200615

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 146   | Resp: | 18987 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 41.3  | 20.4  | 61.2  |
| 148       | 63.9  | 31.8  | 95.4  |

Manual Integrations  
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Abundance Ion 145.90 (145.60 to 146.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V

