

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY052020\  
 Data File : VY002728.D  
 Acq On : 20 May 2020 14:13  
 Operator : SY/MD  
 Sample : L2665-02RE  
 Misc : 5.01G/5ML/MSVOA Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 0375-AMENDED-COMP-MP-ARE

Manual Integrations  
 APPROVED

MMDadoda  
 5/21/2020 1:19:29 PM

Quant Time: May 21 09:19:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y051520S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat May 16 04:52:36 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.   | QIon | Response | Conc     | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|----------|---------|----------|
| 1) Pentafluorobenzene       | 7.80   | 168  | 270606   | 50.00    | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.69   | 114  | 412932   | 50.00    | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.49  | 117  | 295061   | 50.00    | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.42  | 152  | 111474   | 50.00    | ug/l    | 0.00     |
| System Monitoring Compounds |        |      |          |          |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.15   | 65   | 122300   | 57.78    | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =        | 115.56% |          |
| 35) Dibromofluoromethane    | 7.72   | 113  | 82851    | 36.36    | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =        | 72.72%  |          |
| 50) Toluene-d8              | 10.18  | 98   | 932237   | 101.61   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =        | 203.22% |          |
| 62) 4-Bromofluorobenzene    | 12.47  | 95   | 249855   | 79.23    | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =        | 158.46% |          |
| Target Compounds            |        |      |          |          |         |          |
|                             |        |      |          |          | Qvalue  |          |
| 16) Acetone                 | 3.95   | 43   | 134625   | 308.526  | ug/l    | 88       |
| 17) Carbon Disulfide        | 4.20   | 76   | 245968   | 33.036   | ug/l    | 99       |
| 25) 2-Butanone              | 7.00   | 43   | 66303    | 91.838   | ug/l #  | 83       |
| 31) Cyclohexane             | 7.78   | 56   | 1827263  | 445.957  | ug/l #  | 86       |
| 39) Methylcyclohexane       | 9.19   | 83   | 7314187  | 1556.101 | ug/l    | 96       |
| 40) Benzene                 | 8.17   | 78   | 82270    | 8.066    | ug/l    | 98       |
| 67) Ethyl Benzene           | 11.59  | 91   | 616903   | 61.622   | ug/l    | 99       |
| 68) m/p-Xylenes             | 11.70  | 106  | 268414   | 68.916   | ug/l    | 97       |
| 69) o-Xylene                | 12.03  | 106  | 185438   | 50.727   | ug/l    | 96       |
| 73) Isopropylbenzene        | 12.33  | 105  | 626440   | 86.003   | ug/l    | 100      |
| 78) n-propylbenzene         | 12.67  | 91   | 835310   | 98.580   | ug/l    | 100      |
| 80) 1,3,5-Trimethylbenzene  | 12.81  | 105  | 900615   | 147.151  | ug/l    | 98       |
| 84) 1,2,4-Trimethylbenzene  | 13.12  | 105  | 2427911  | 396.934  | ug/l    | 99       |
| 85) sec-Butylbenzene        | 13.25  | 105  | 479512   | 64.154   | ug/l #  | 74       |
| 86) p-Isopropyltoluene      | 13.37  | 119  | 661810   | 94.595   | ug/l    | 95       |
| 89) n-Butylbenzene          | 13.69  | 91   | 386474m  | 60.153   | ug/l    |          |
| 95) Naphthalene             | 15.23  | 128  | 804221   | 185.445  | ug/l #  | 84       |

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

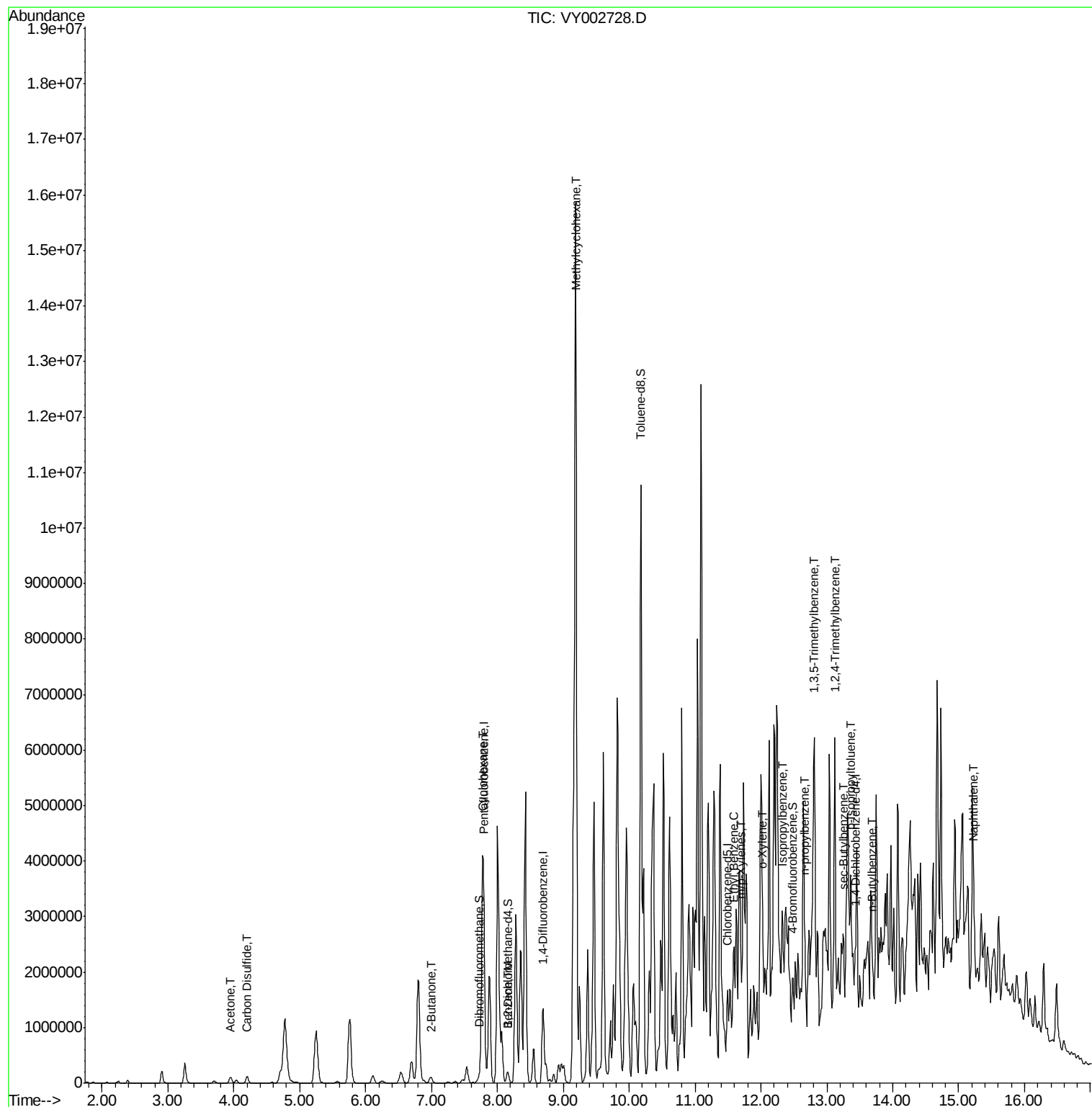
Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY052020\  
Data File : VY002728.D  
Acq On : 20 May 2020 14:13  
Operator : SY/MD  
Sample : L2665-02RE  
Misc : 5.01G/5ML/MSVOA Y/SOIL  
ALS Vial : 12 Sample Multiplier: 1

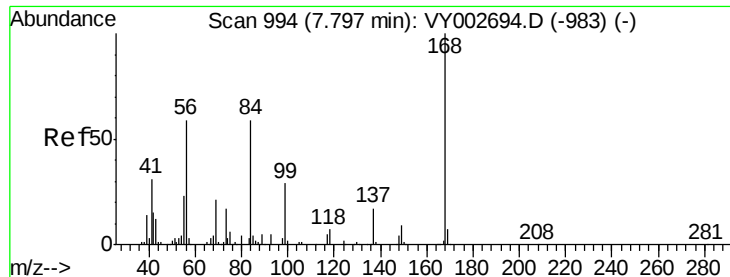
Instrument :  
MSVOA\_Y  
ClientSampleId :  
0375-AMENDED-COMP-MP-ARE

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Quant Time: May 21 09:19:45 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y051520S.M  
Quant Title : SW846 8260  
QLast Update : Sat May 16 04:52:36 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY002728.D

Acq: 20 May 2020 14:13

Instrument :

MSVOA\_Y

ClientSampleId :

0375-AMENDED-COMP-MP-ARE

Tot Ion:168 Resp: 270606

Ion Ratio Lower Upper

168 100

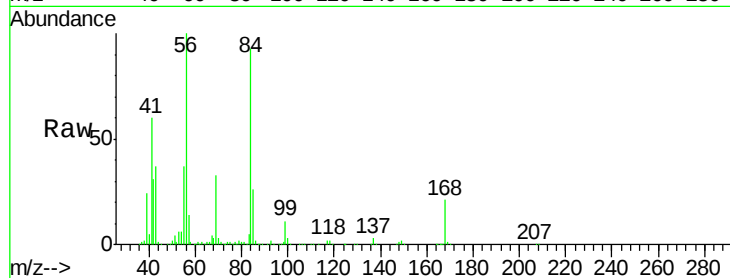
99 50.0 39.2 58.8

Manual Integrations

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Abundance Ion 167.90 (167.60 to 168.60): VY002728.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY002728.D (-983) (-)

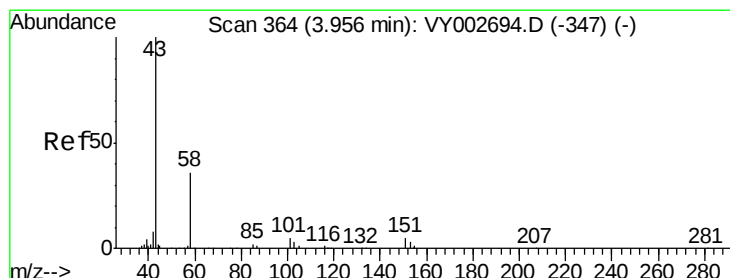
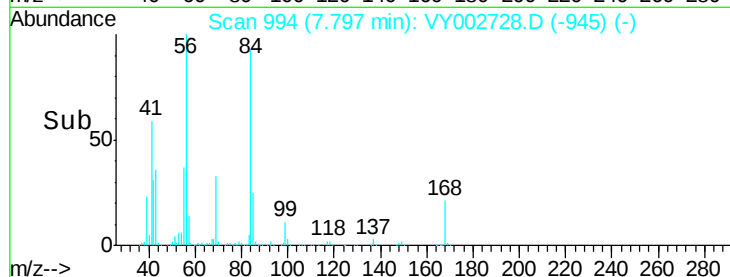
7.80

100000

50000

0

Time-->



#16

Acetone

Concen: 308.526 ug/l

RT: 3.95 min Scan# 363

Delta R.T. -0.01 min

Lab File: VY002728.D

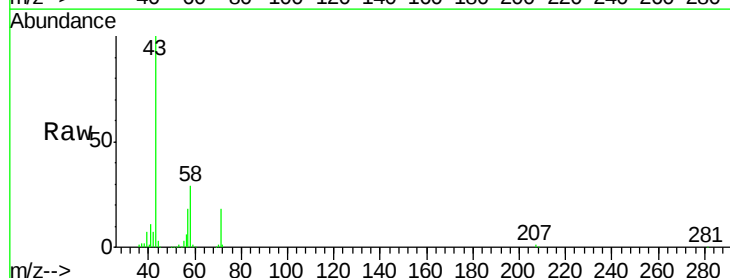
Acq: 20 May 2020 14:13

Tgt Ion: 43 Resp: 134625

Ion Ratio Lower Upper

43 100

58 28.9 28.6 43.0



Abundance Ion 43.00 (42.70 to 43.70): VY002728.D (-347) (-)

Ion 58.00 (57.70 to 58.70): VY002728.D (-347) (-)

3.95

50000

40000

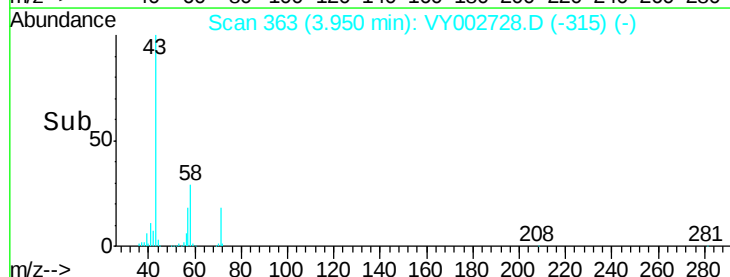
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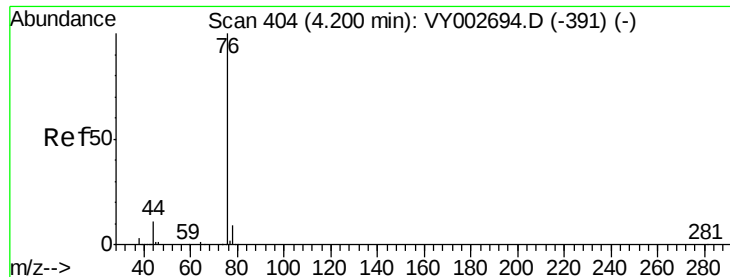
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10000

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Time-->





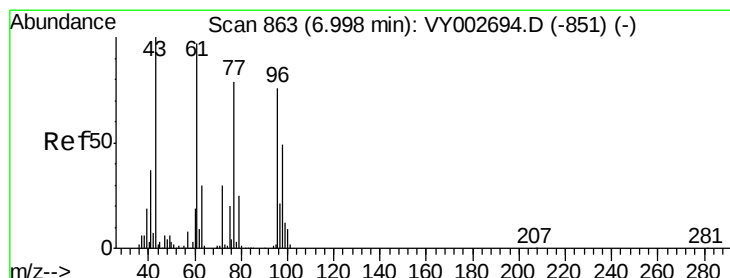
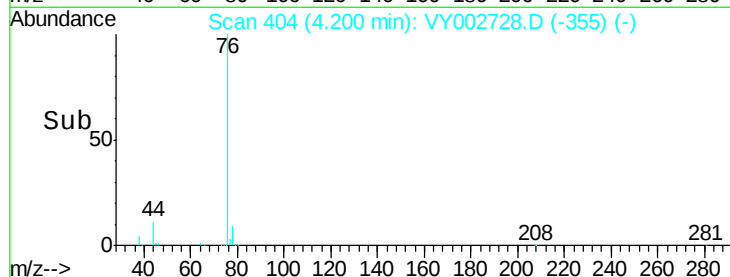
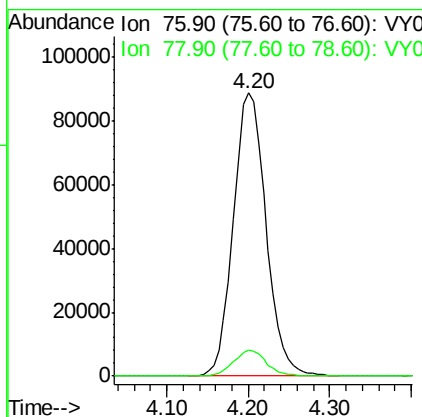
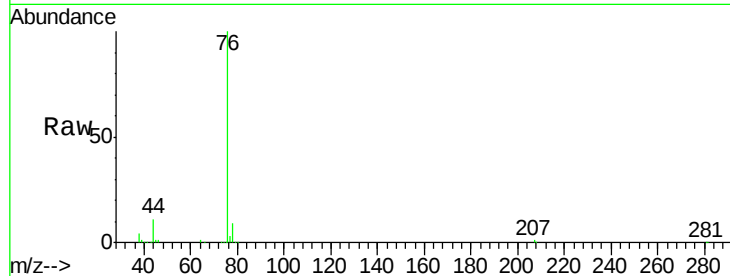
#17  
Carbon Disulfide  
Concen: 33.036 ug/l  
RT: 4.20 min Scan# 404  
Delta R.T. 0.00 min  
Lab File: VY002728.D  
Acq: 20 May 2020 14:13

Instrument :  
MSVOA\_Y  
ClientSampleId :  
0375-AMENDED-COMP-MP-ARE

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 76      | 100   | 245968 |       |       |
| 78      | 9.3   |        | 7.1   | 10.7  |

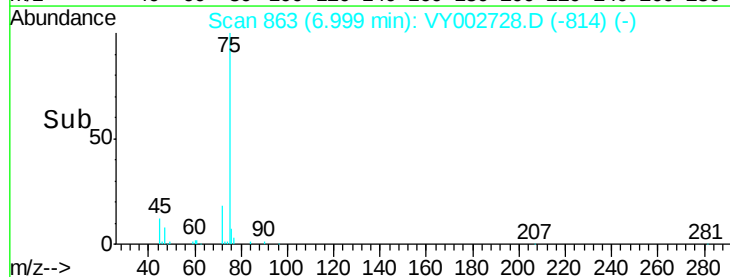
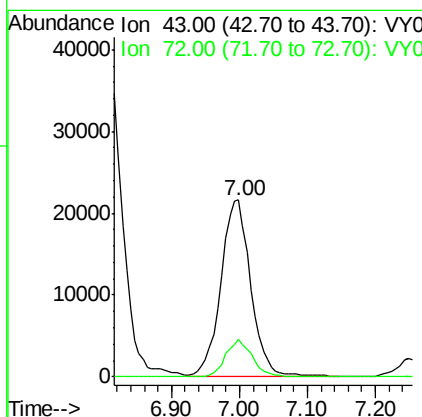
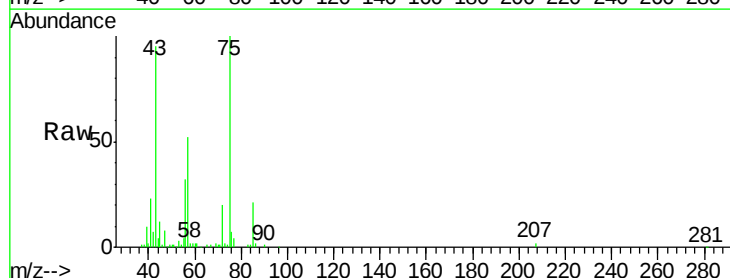
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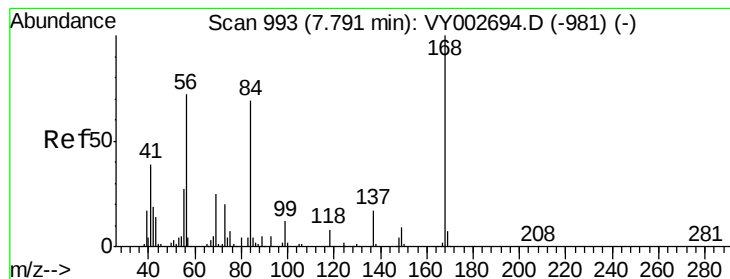
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#25  
2-Butanone  
Concen: 91.838 ug/l  
RT: 7.00 min Scan# 863  
Delta R.T. 0.00 min  
Lab File: VY002728.D  
Acq: 20 May 2020 14:13

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 43      | 100   | 66303 |       |       |
| 72      | 21.1  |       | 24.1  | 36.1  |





#31

Cyclohexane

Concen: 445.957 ug/l

RT: 7.78 min Scan# 992

Delta R.T. -0.01 min

Lab File: VY002728.D

Acq: 20 May 2020 14:13

Instrument :

MSVOA\_Y

ClientSampleId :

0375-AMENDED-COMP-MP-ARE

Tot Ion: 56 Resp: 1827263

Ion Ratio Lower Upper

56 100

69 26.8 27.7 41.5#

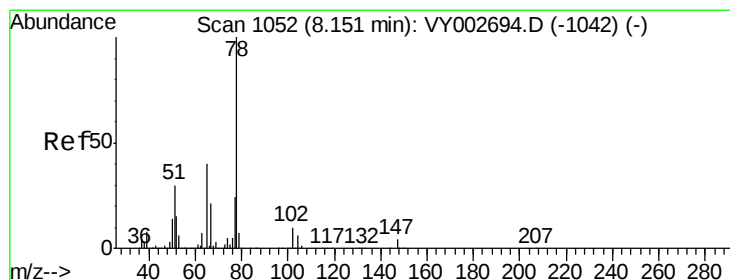
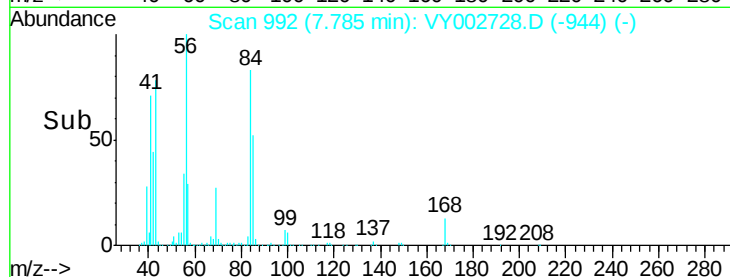
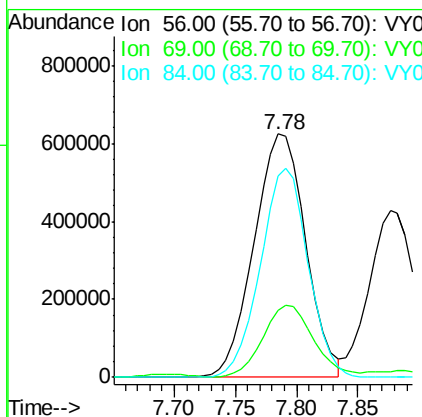
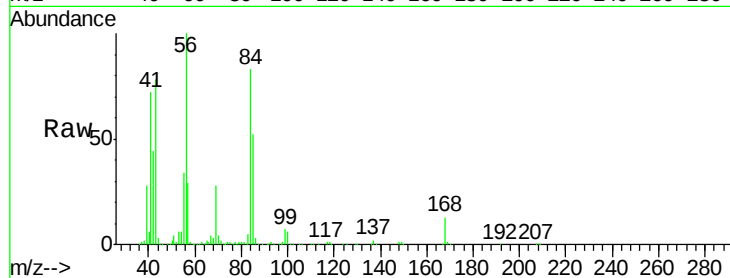
84 82.7 77.0 115.4

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#33

1,2-Dichloroethane-d4

Concen: 57.778 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VY002728.D

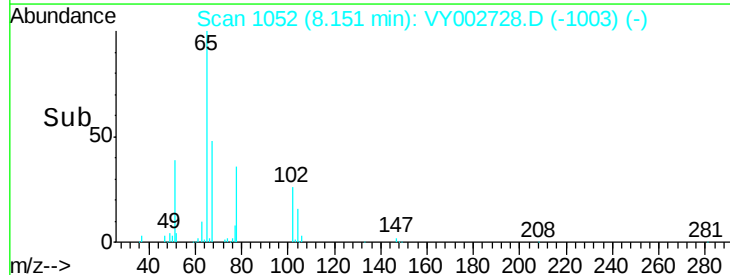
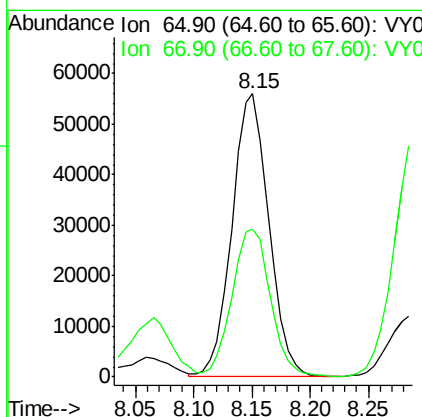
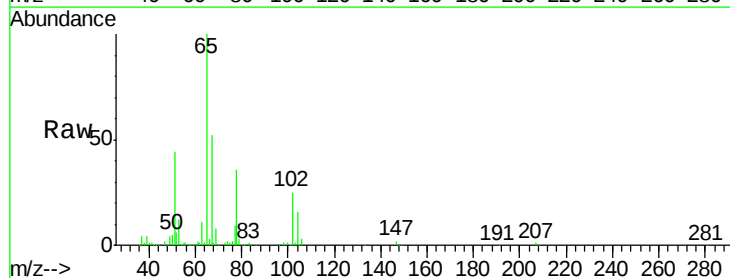
Acq: 20 May 2020 14:13

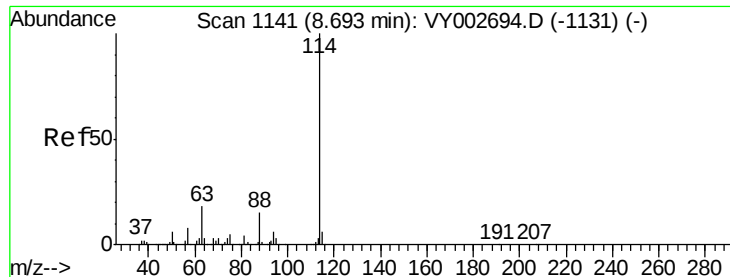
Tgt Ion: 65 Resp: 122300

Ion Ratio Lower Upper

65 100

67 54.0 0.0 109.0





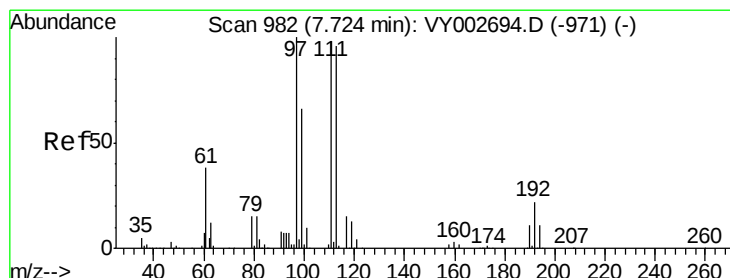
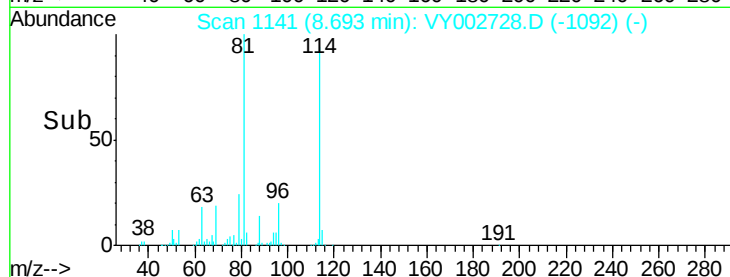
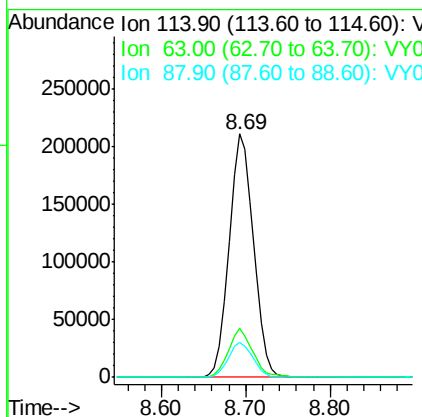
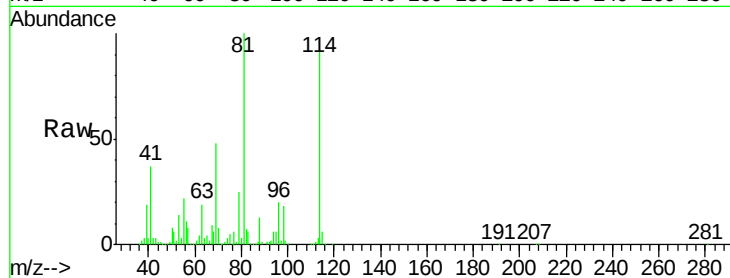
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.69 min Scan# 1141  
 Delta R.T. 0.00 min  
 Lab File: VY002728.D  
 Acq: 20 May 2020 14:13

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 0375-AMENDED-COMP-MP-ARE

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 412932 |       |       |
| 63      | 20.2  | 0.0    | 35.4  |       |
| 88      | 14.4  | 0.0    | 29.4  |       |

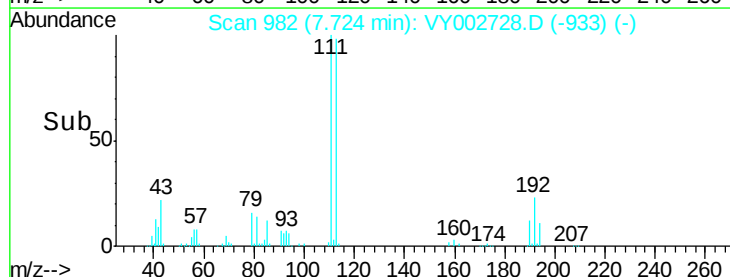
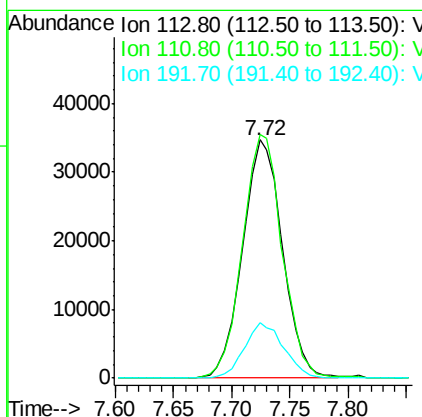
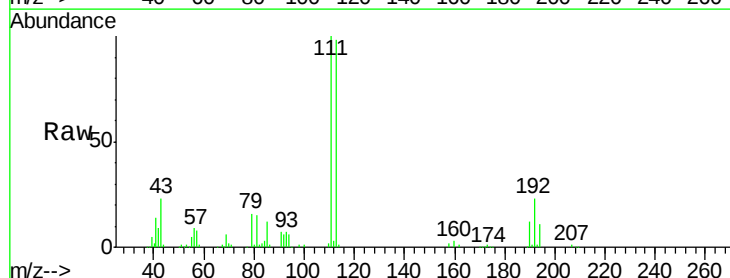
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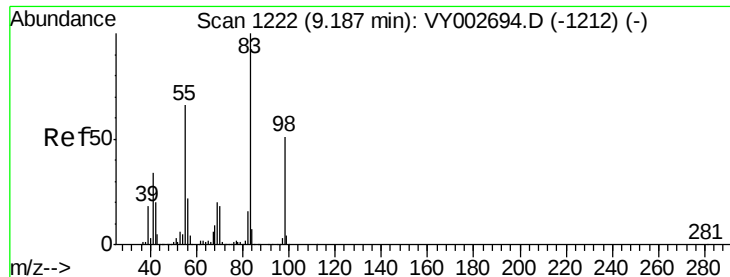
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#35  
 Dibromofluoromethane  
 Concen: 36.356 ug/l  
 RT: 7.72 min Scan# 982  
 Delta R.T. 0.00 min  
 Lab File: VY002728.D  
 Acq: 20 May 2020 14:13

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 113     | 100   | 82851 |       |       |
| 111     | 101.4 | 81.9  | 122.9 |       |
| 192     | 23.0  | 18.6  | 27.8  |       |





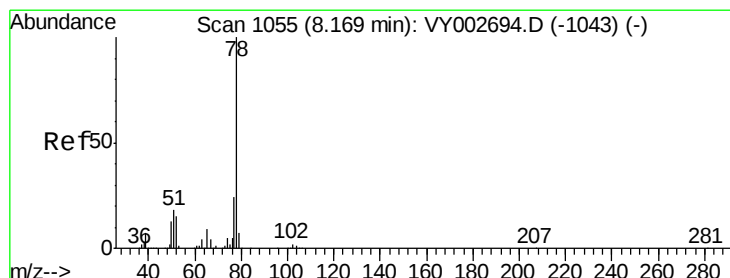
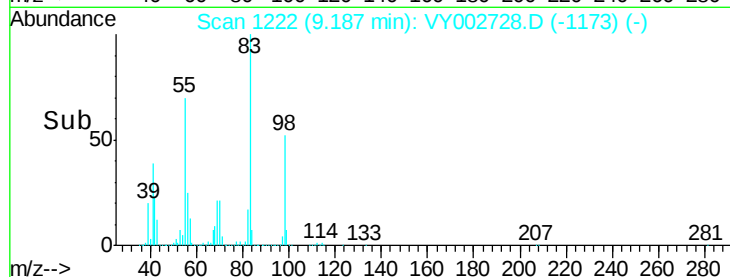
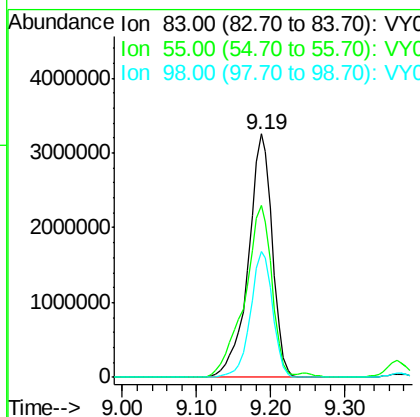
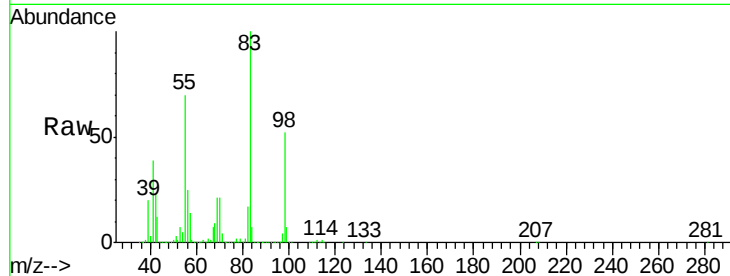
#39  
Methvlcvclohexane  
Concen: 1556.101 ug/l  
RT: 9.19 min Scan# 1222  
Delta R.T. 0.00 min  
Lab File: VY002728.D  
Acq: 20 May 2020 14:13

Instrument :  
MSVOA\_Y  
ClientSampleId :  
0375-AMENDED-COMP-MP-ARE

| Tot Ion | 83    | Resp  | 7314187 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 83      | 100   |       |         |
| 55      | 70.5  | 53.0  | 79.6    |
| 98      | 51.9  | 40.8  | 61.2    |

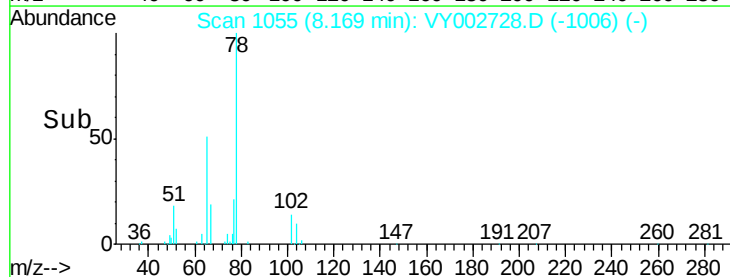
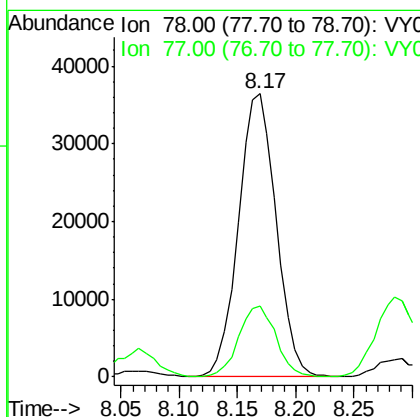
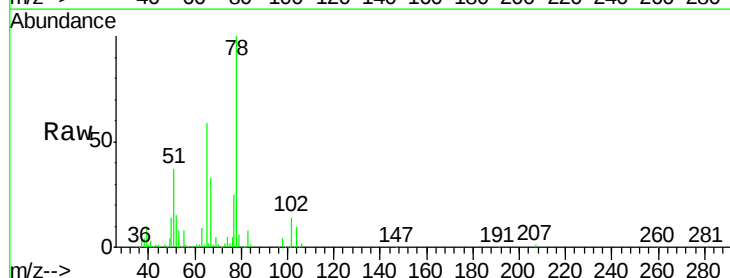
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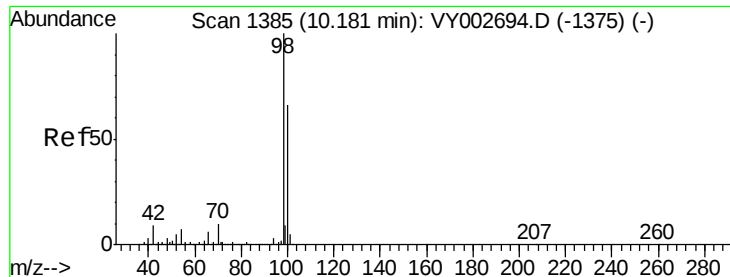
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#40  
Benzene  
Concen: 8.066 ug/l  
RT: 8.17 min Scan# 1055  
Delta R.T. 0.00 min  
Lab File: VY002728.D  
Acq: 20 May 2020 14:13

| Tgt Ion | 78    | Resp  | 82270 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 78      | 100   |       |       |
| 77      | 24.9  | 19.2  | 28.8  |





#50

Toluene-d8

Concen: 101.607 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY002728.D

Acq: 20 May 2020 14:13

Instrument :

MSVOA\_Y

ClientSampleId :

0375-AMENDED-COMP-MP-ARE

Tot Ion: 98 Resp: 932237

Ion Ratio Lower Upper

98 100

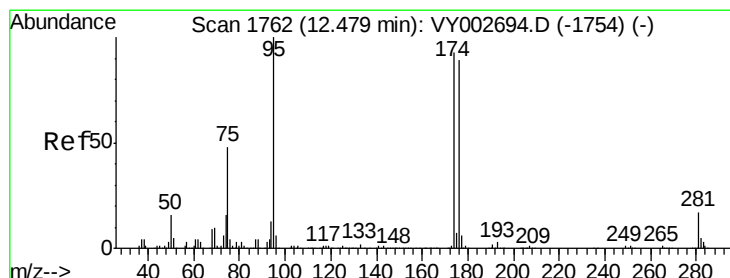
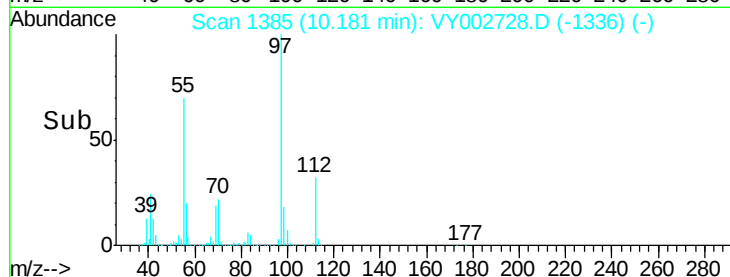
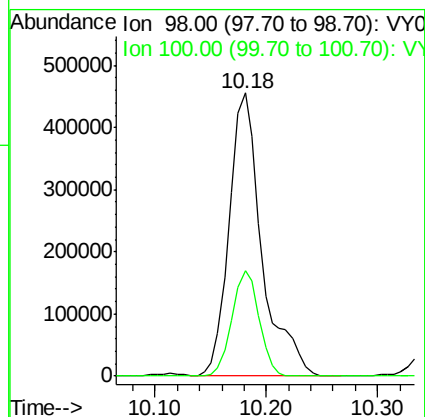
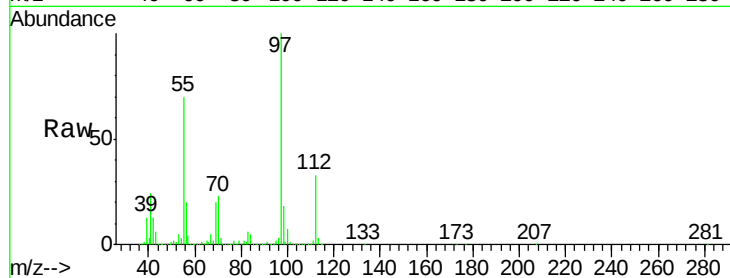
100 30.6 52.3 78.5#

Manual Integrations

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#62

4-Bromofluorobenzene

Concen: 79.232 ug/l

RT: 12.47 min Scan# 1761

Delta R.T. -0.01 min

Lab File: VY002728.D

Acq: 20 May 2020 14:13

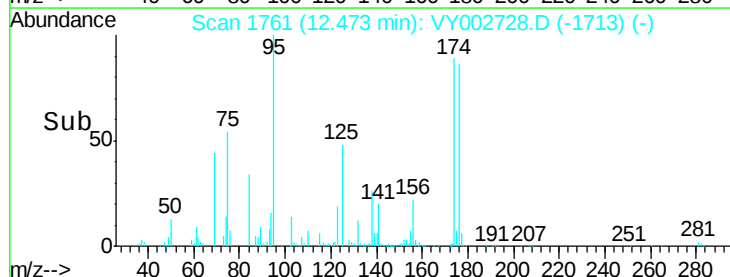
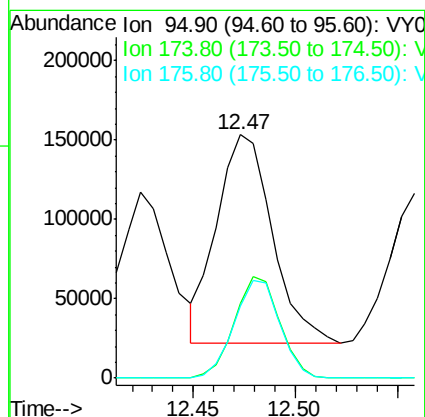
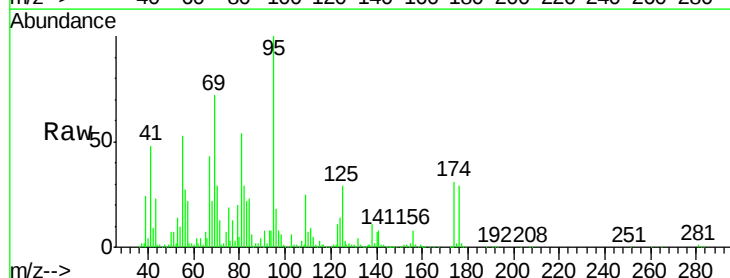
Tgt Ion: 95 Resp: 249855

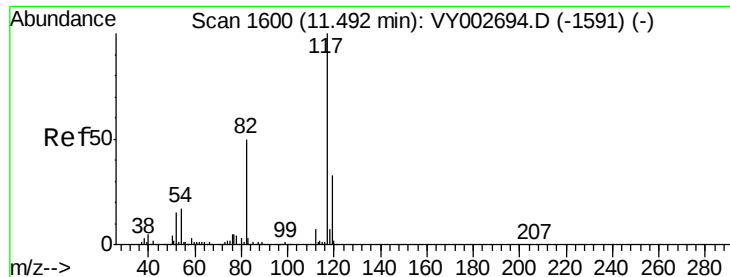
Ion Ratio Lower Upper

95 100

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176 38.5 0.0 186.0





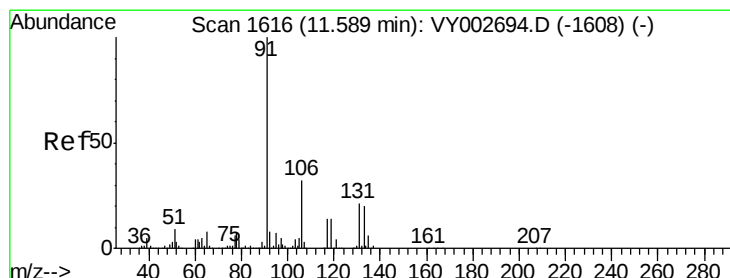
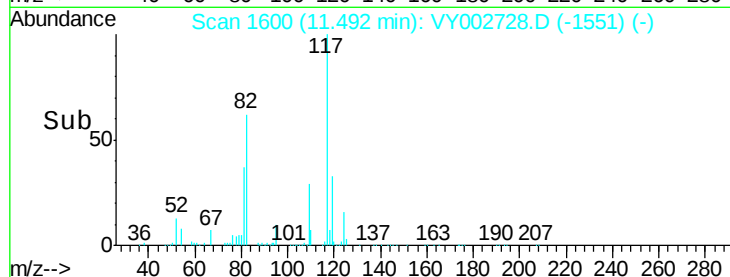
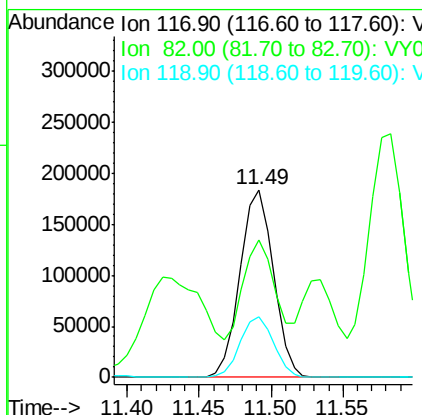
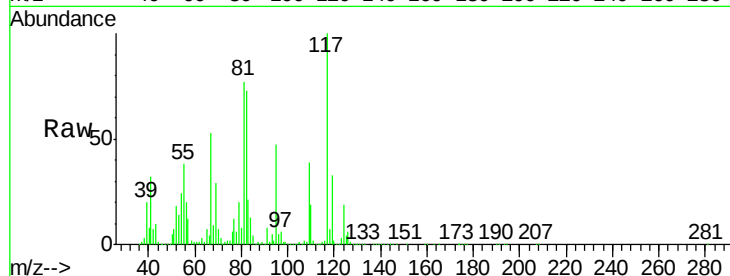
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VY002728.D  
Acq: 20 May 2020 14:13

Instrument :  
MSVOA\_Y  
ClientSampleId :  
0375-AMENDED-COMP-MP-ARE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 45.8  | 40.3  | 60.5  |
| 119     | 32.4  | 26.2  | 39.4  |

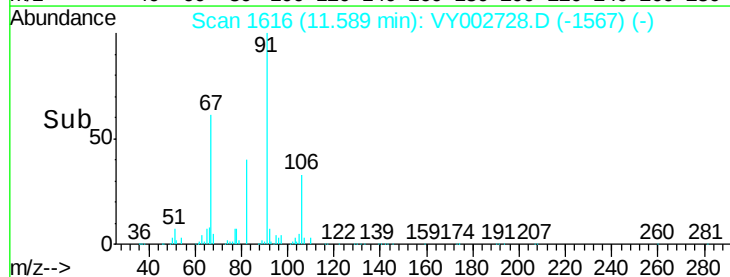
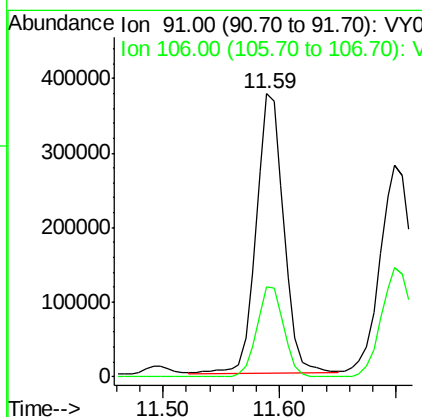
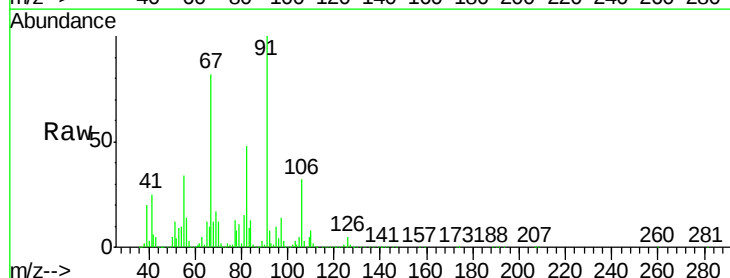
Manual Integrations  
APPROVED

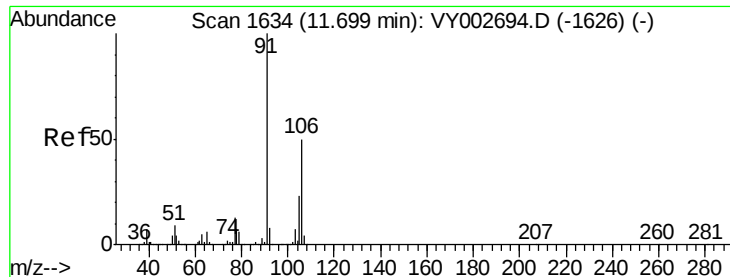
MMDadoda  
5/21/2020 1:19:29 PM



#67  
Ethyl Benzene  
Concen: 61.622 ug/l  
RT: 11.59 min Scan# 1616  
Delta R.T. 0.00 min  
Lab File: VY002728.D  
Acq: 20 May 2020 14:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 32.2  | 26.0  | 39.0  |





#68

m/p-Xylenes

Concen: 68.916 ug/l

RT: 11.70 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VY002728.D

Acq: 20 May 2020 14:13

Instrument :

MSVOA\_Y

ClientSampleId :

0375-AMENDED-COMP-MP-ARE

Tot Ion:106 Resp: 268414

Ion Ratio Lower Upper

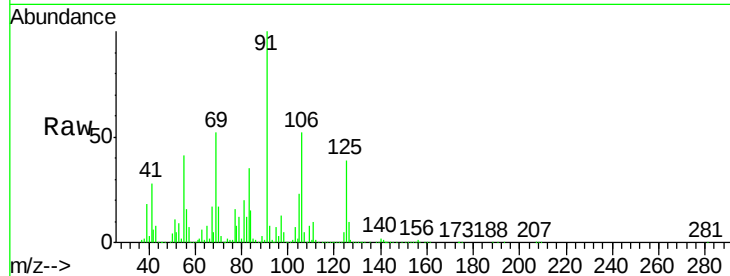
106 100

91 199.2 156.2 234.4

Manual Integrations  
APPROVED

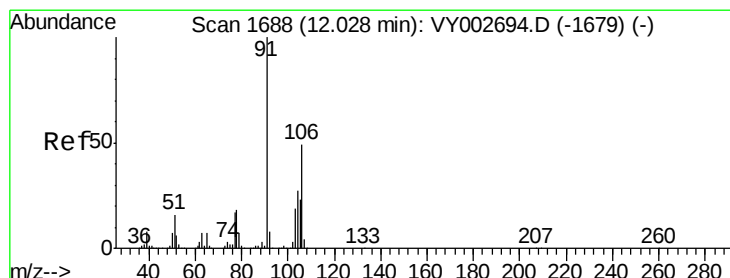
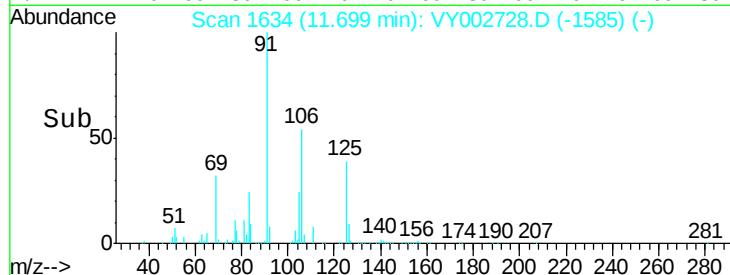
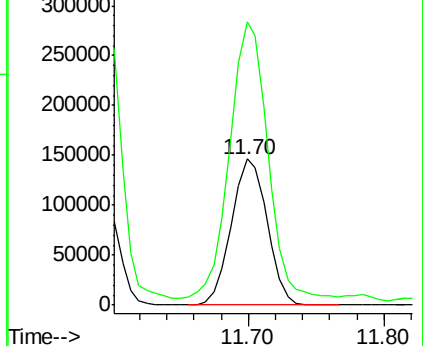
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#69

o-Xylene

Concen: 50.727 ug/l

RT: 12.03 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VY002728.D

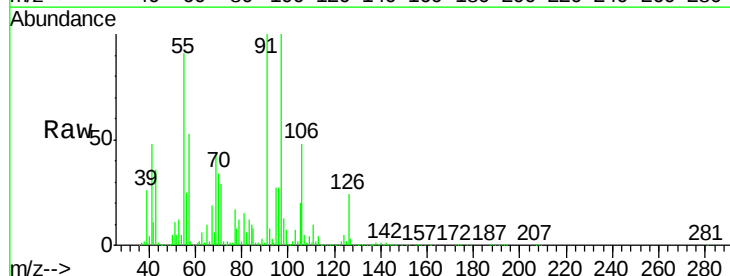
Acq: 20 May 2020 14:13

Tgt Ion:106 Resp: 185438

Ion Ratio Lower Upper

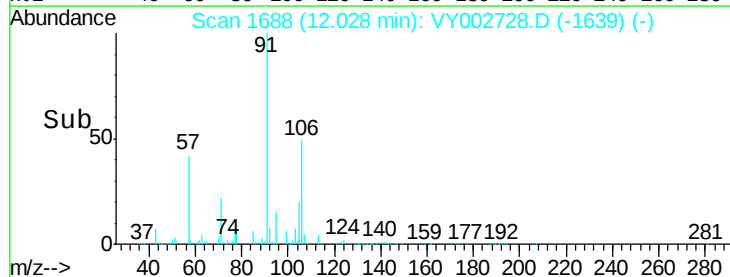
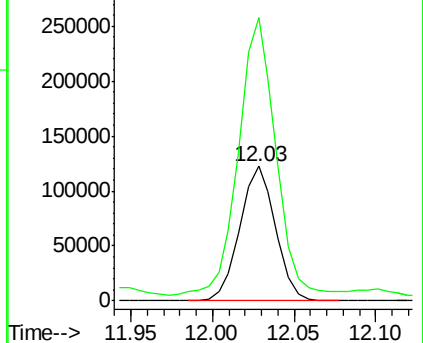
106 100

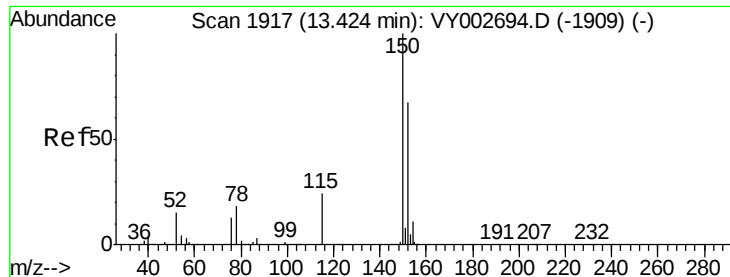
91 213.2 103.5 310.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0





#72

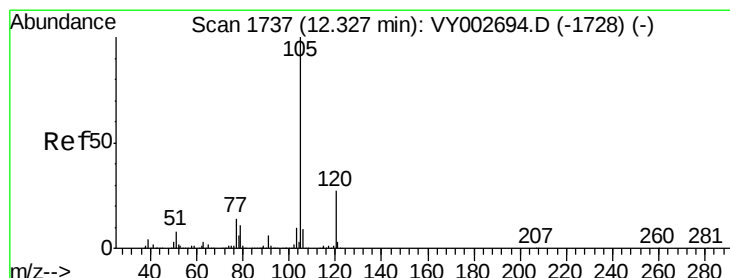
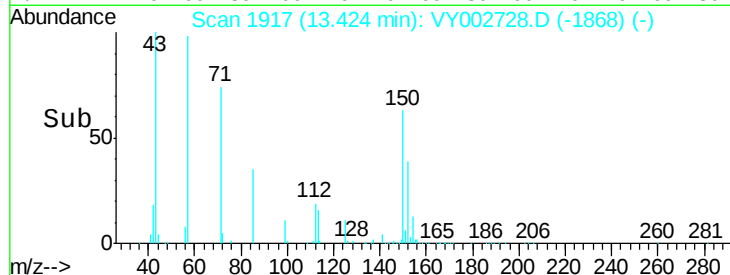
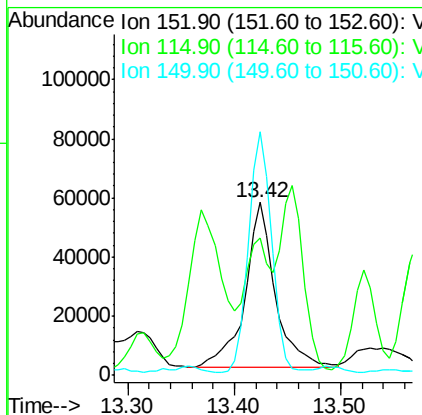
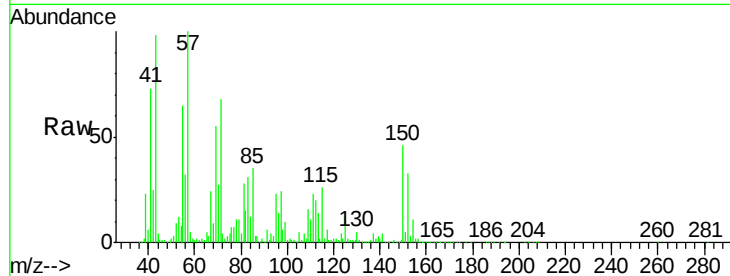
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. 0.00 min  
Lab File: VY002728.D  
Acq: 20 May 2020 14:13

Instrument :  
MSVOA\_Y  
ClientSampleId :  
0375-AMENDED-COMP-MP-ARE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.7  | 27.2  | 81.6  |
| 150     | 111.9 | 0.0   | 343.8 |

Manual Integrations  
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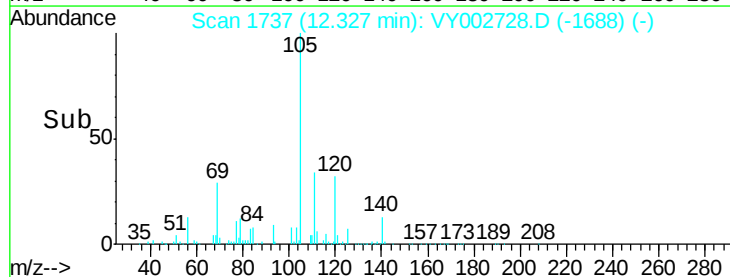
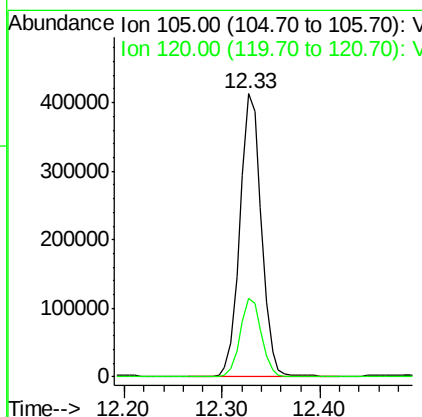
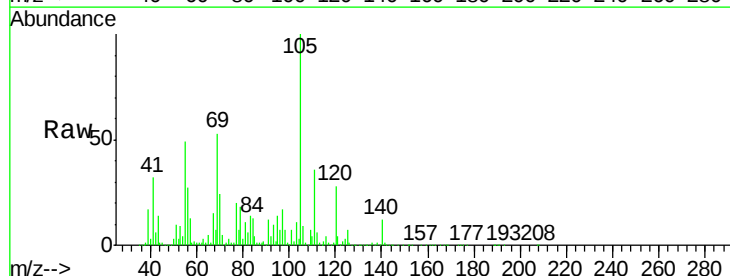
MMDadoda  
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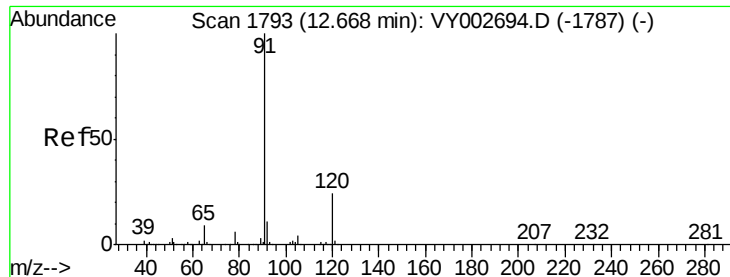


#73

Isopropylbenzene  
Concen: 86.003 ug/l  
RT: 12.33 min Scan# 1737  
Delta R.T. 0.00 min  
Lab File: VY002728.D  
Acq: 20 May 2020 14:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 27.6  | 13.7  | 41.1  |





#78

n-propylbenzene

Concen: 98.580 ug/l

RT: 12.67 min Scan# 1793

Delta R.T. 0.00 min

Lab File: VY002728.D

Acq: 20 May 2020 14:13

Instrument :

MSVOA\_Y

ClientSampleId :

0375-AMENDED-COMP-MP-ARE

Tot Ion: 91 Resp: 835310

Ion Ratio Lower Upper

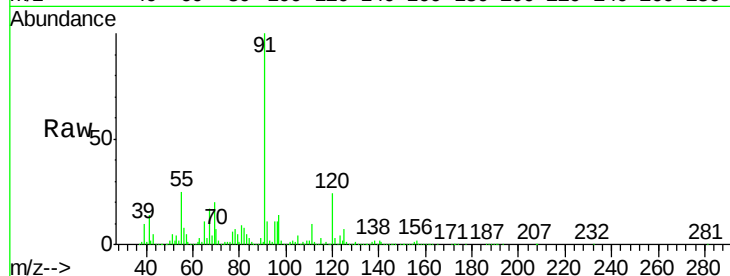
91 100

120 24.4 12.3 36.8

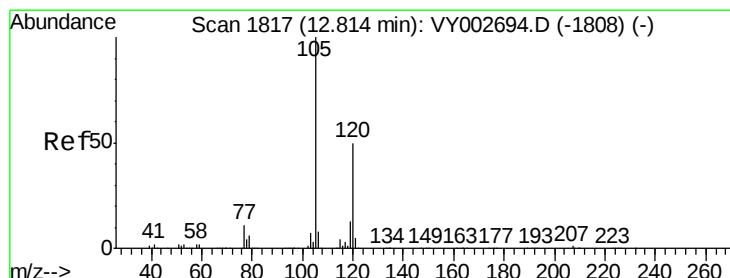
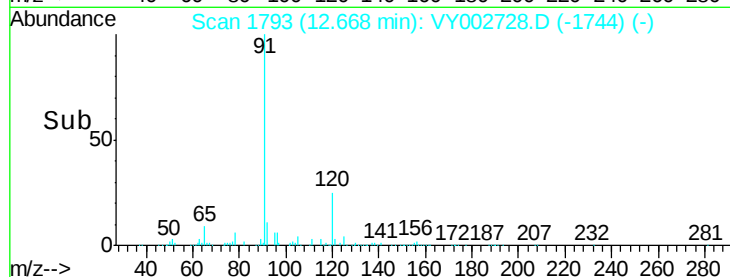
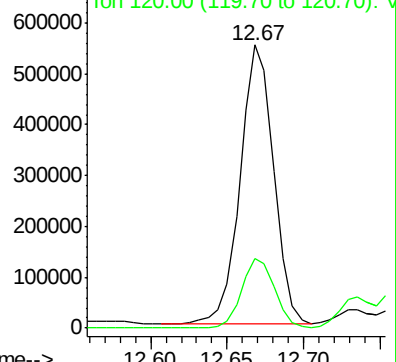
Manual Integrations  
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Abundance Ion 91.00 (90.70 to 91.70): VY002694.D (-1787) (-)



#80

1,3,5-Trimethylbenzene

Concen: 147.151 ug/l

RT: 12.81 min Scan# 1816

Delta R.T. -0.01 min

Lab File: VY002728.D

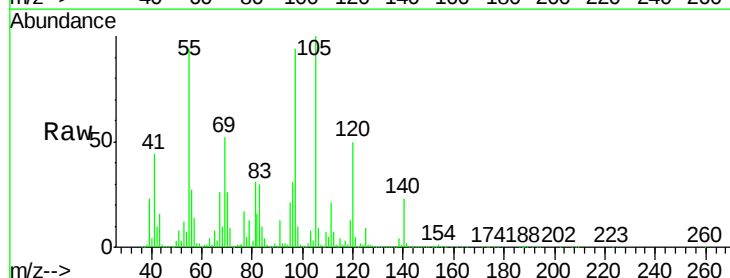
Acq: 20 May 2020 14:13

Tgt Ion: 105 Resp: 900615

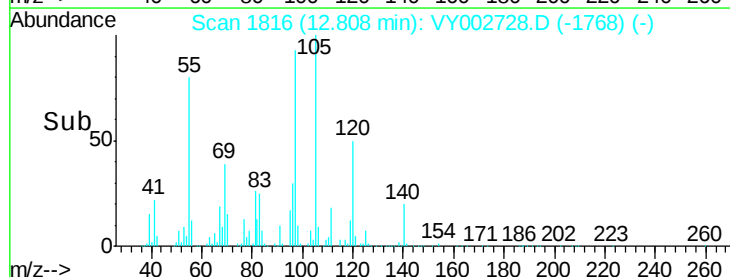
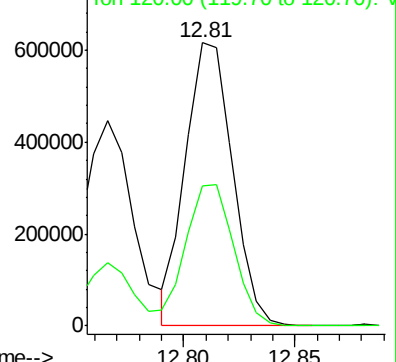
Ion Ratio Lower Upper

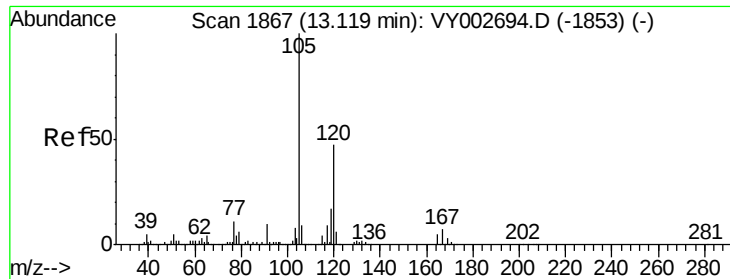
105 100

120 52.0 25.1 75.4



Abundance Ion 105.00 (104.70 to 105.70): VY002694.D (-1808) (-)





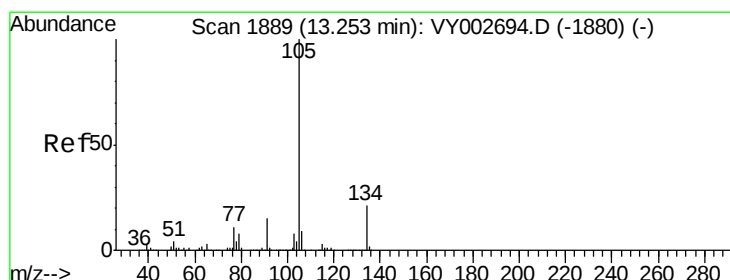
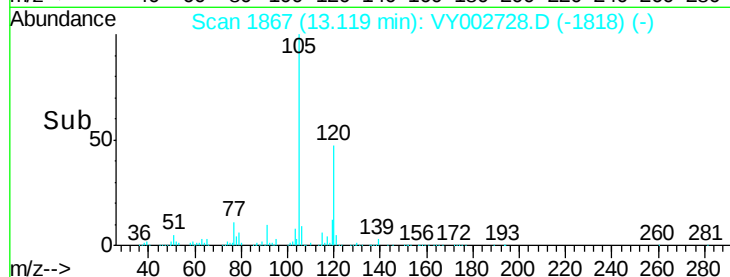
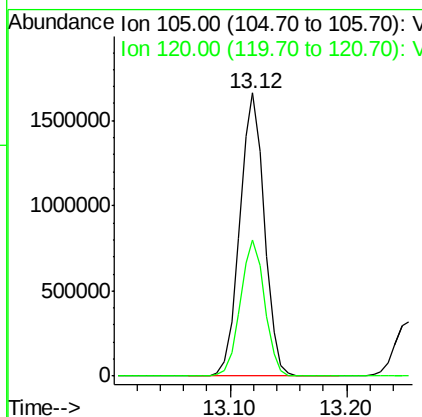
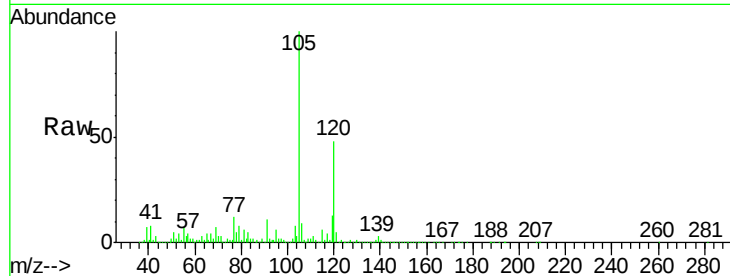
#84  
1,2,4-Trimethylbenzene  
Concen: 396.934 ug/l  
RT: 13.12 min Scan# 1867  
Delta R.T. 0.00 min  
Lab File: VY002728.D  
Acq: 20 May 2020 14:13

Instrument :  
MSVOA\_Y  
ClientSampleId :  
0375-AMENDED-COMP-MP-ARE

Tot Ion:105 Resp: 2427911  
Ion Ratio Lower Upper  
105 100  
120 47.8 23.5 70.5

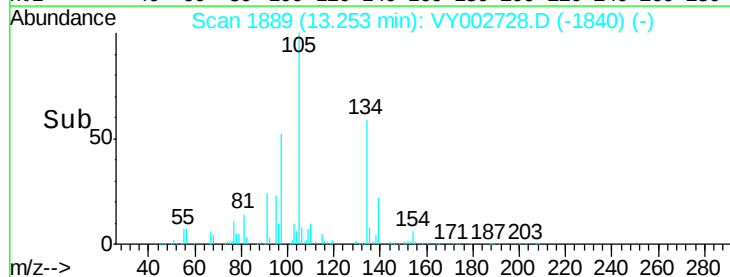
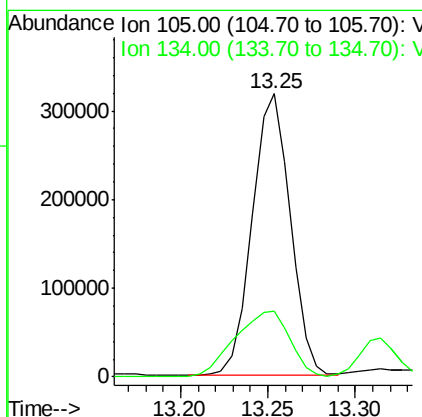
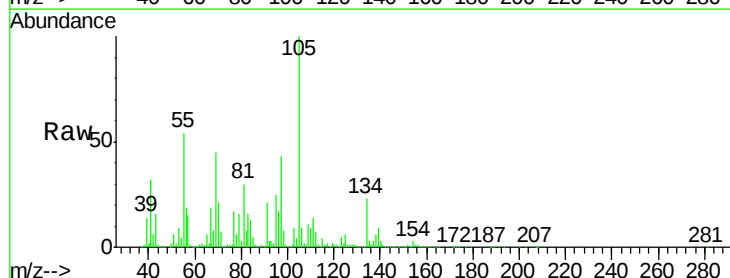
Manual Integrations  
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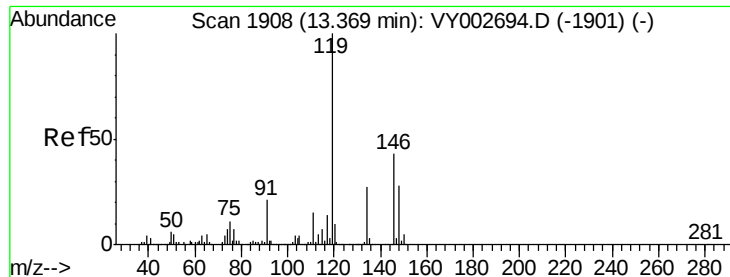
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#85  
sec-Butylbenzene  
Concen: 64.154 ug/l  
RT: 13.25 min Scan# 1889  
Delta R.T. 0.00 min  
Lab File: VY002728.D  
Acq: 20 May 2020 14:13

Tgt Ion:105 Resp: 479512  
Ion Ratio Lower Upper  
105 100  
134 33.7 10.8 32.3#





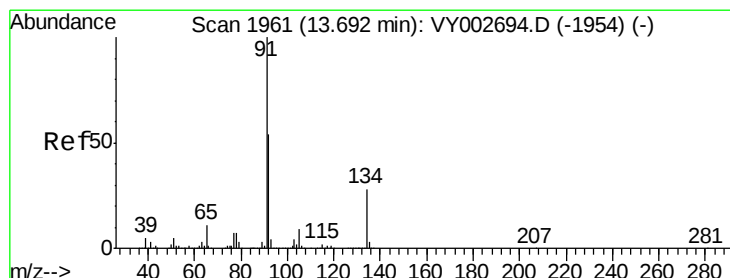
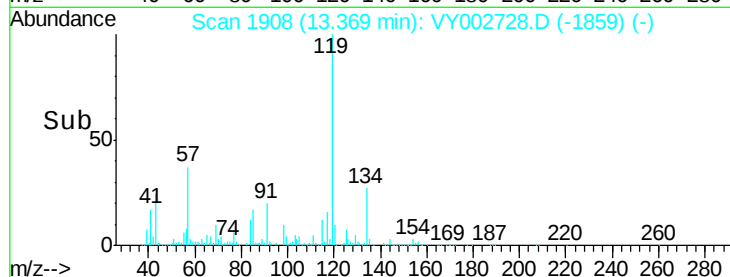
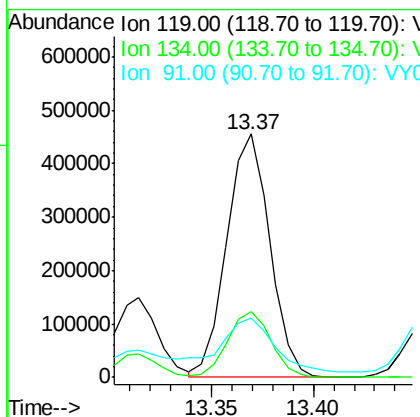
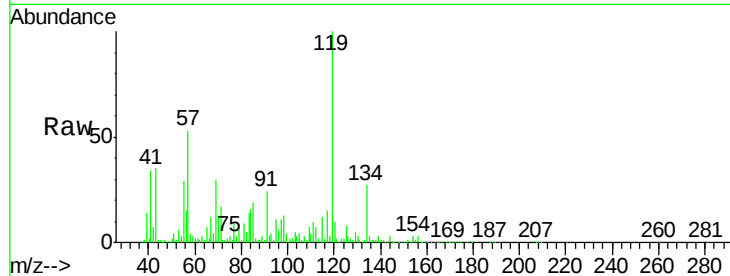
#86  
p-Isopropyltoluene  
Concen: 94.595 ug/l  
RT: 13.37 min Scan# 1908  
Delta R.T. 0.00 min  
Lab File: VY002728.D  
Acq: 20 May 2020 14:13

Instrument :  
MSVOA\_Y  
ClientSampleId :  
0375-AMENDED-COMP-MP-ARE

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 119   | Resp: | 661810 |
| Ion Ratio | Lower | Upper |        |
| 119       | 100   |       |        |
| 134       | 27.2  | 13.5  | 40.5   |
| 91        | 27.0  | 10.8  | 32.3   |

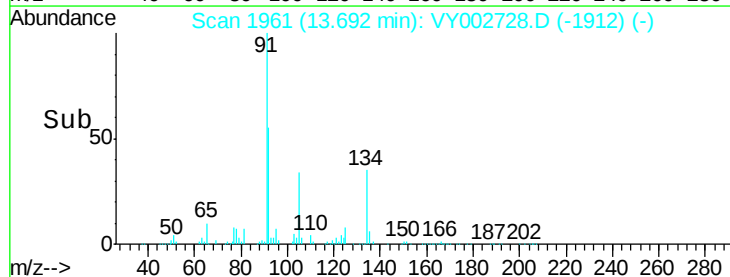
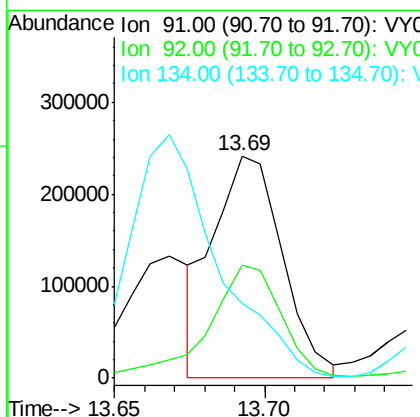
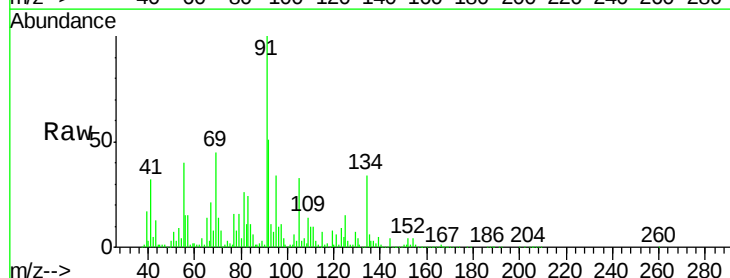
Manual Integrations  
APPROVED

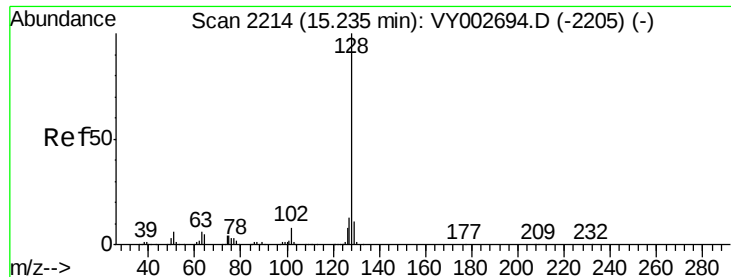
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#89  
n-Butylbenzene  
Concen: 60.153 ug/l m  
RT: 13.69 min Scan# 1961  
Delta R.T. 0.00 min  
Lab File: VY002728.D  
Acq: 20 May 2020 14:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 386474 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 92        | 51.9  | 26.8  | 80.4   |
| 134       | 0.0   | 14.5  | 43.5#  |





#95  
Naphthalene  
Concen: 185.445 ug/l  
RT: 15.23 min Scan# 2214  
Delta R.T. 0.00 min  
Lab File: VY002728.D  
Acq: 20 May 2020 14:13

Instrument :  
MSVOA\_Y  
ClientSampleId :  
0375-AMENDED-COMP-MP-ARE

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 128     | 100   |      |       |       |
| 127     | 17.5  | 10.3 | 15.5# |       |
| 129     | 18.7  | 8.7  | 13.1# |       |

Manual Integrations  
APPROVED

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