

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080919\  
 Data File : VX011410.D  
 Acq On : 09 Aug 2019 15:19  
 Operator : JC/SP  
 Sample : K4279-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z3-0672

Manual Integrations  
 APPROVED

MMDadoda  
 8/12/2019 12:50:27 PM

Quant Time: Aug 11 00:41:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 02 01:55:00 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.   | QIon | Response | Conc    | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene       | 5.66   | 168  | 225770   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.85   | 114  | 326549   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 10.11  | 117  | 290191   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.08  | 152  | 157131   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds |        |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4   | 6.06   | 65   | 113857   | 50.08   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 100.16% |          |
| 35) Dibromofluoromethane    | 5.49   | 113  | 95864    | 44.97   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 89.94%  |          |
| 50) Toluene-d8              | 8.71   | 98   | 383483   | 47.65   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 95.30%  |          |
| 62) 4-Bromofluorobenzene    | 11.13  | 95   | 138334   | 48.15   | ug/l    | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =       | 96.30%  |          |
| Target Compounds            |        |      |          |         |         |          |
|                             |        |      |          |         | Qvalue  |          |
| 16) Acetone                 | 2.43   | 43   | 7488     | 6.919   | ug/l    | 95       |
| 31) Cyclohexane             | 5.58   | 56   | 825953   | 282.092 | ug/l    | 99       |
| 39) Methylcyclohexane       | 7.46   | 83   | 769361   | 227.656 | ug/l    | 99       |
| 40) Benzene                 | 6.14   | 78   | 1740791  | 204.610 | ug/l    | 98       |
| 52) Toluene                 | 8.78   | 92   | 6468     | 1.150   | ug/l    | 100      |
| 67) Ethyl Benzene           | 10.25  | 91   | 4452880  | 427.323 | ug/l    | 99       |
| 68) m/p-Xylenes             | 10.36  | 106  | 634738   | 157.480 | ug/l    | 95       |
| 69) o-Xylene                | 10.69  | 106  | 13072    | 3.301   | ug/l    | 97       |
| 73) Isopropylbenzene        | 11.02  | 105  | 469138   | 43.654  | ug/l    | 99       |
| 78) n-propylbenzene         | 11.36  | 91   | 624242   | 52.234  | ug/l    | 98       |
| 80) 1,3,5-Trimethylbenzene  | 11.51  | 105  | 472396   | 52.511  | ug/l    | 98       |
| 83) tert-Butylbenzene       | 11.77  | 119  | 8113m    | 0.920   | ug/l    |          |
| 84) 1,2,4-Trimethylbenzene  | 11.80  | 105  | 3538580  | 395.075 | ug/l    | 99       |
| 85) sec-Butylbenzene        | 11.94  | 105  | 102791m  | 9.697   | ug/l    |          |
| 86) p-Isopropyltoluene      | 12.06  | 119  | 102193   | 10.479  | ug/l    | 99       |
| 89) n-Butylbenzene          | 12.38  | 91   | 104178   | 12.399  | ug/l #  | 33       |
| 95) Naphthalene             | 13.83  | 128  | 665422   | 64.854  | ug/l    | 100      |

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

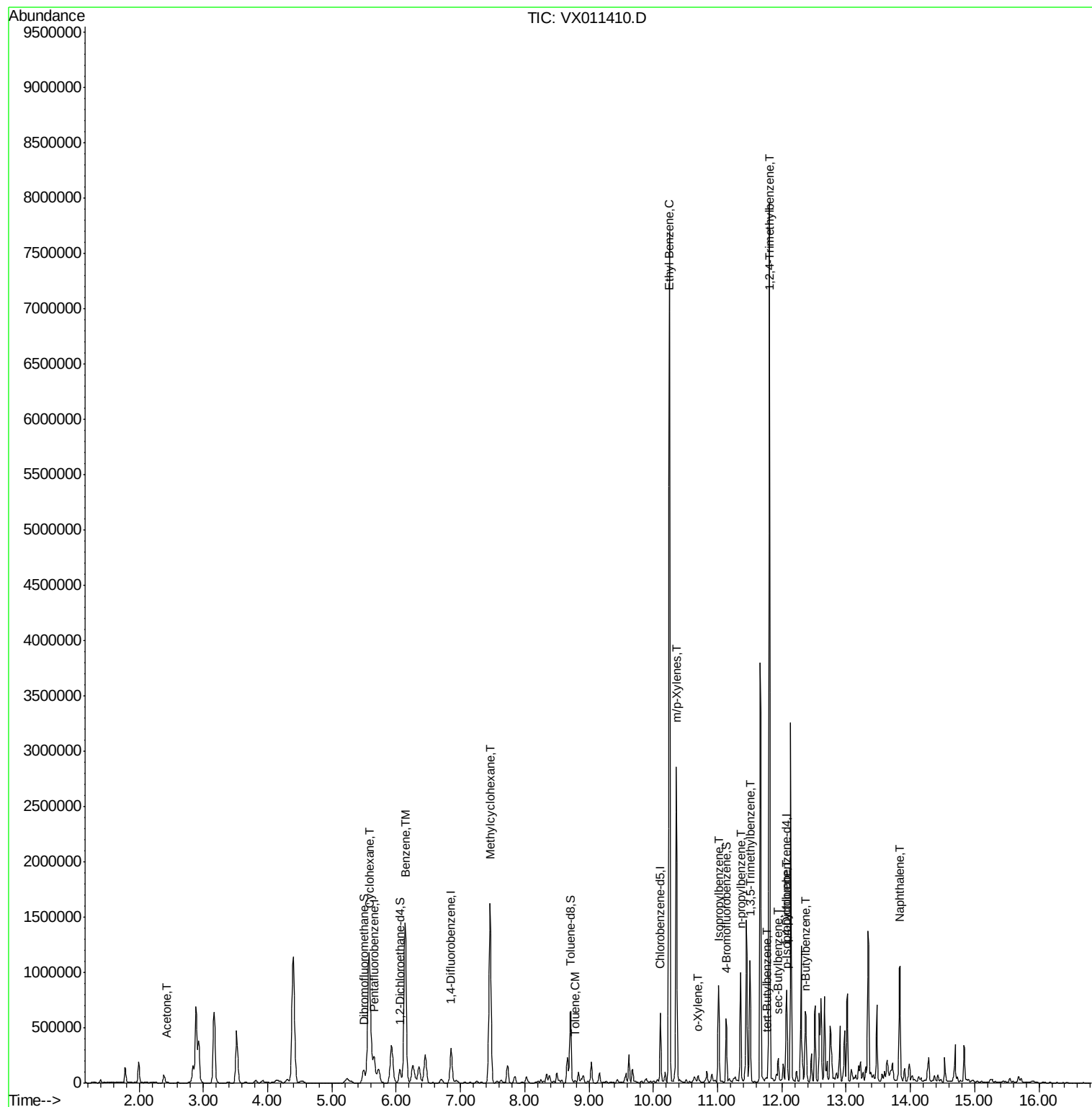
Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080919\  
Data File : VX011410.D  
Acq On : 09 Aug 2019 15:19  
Operator : JC/SP  
Sample : K4279-03  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 14 Sample Multiplier: 1

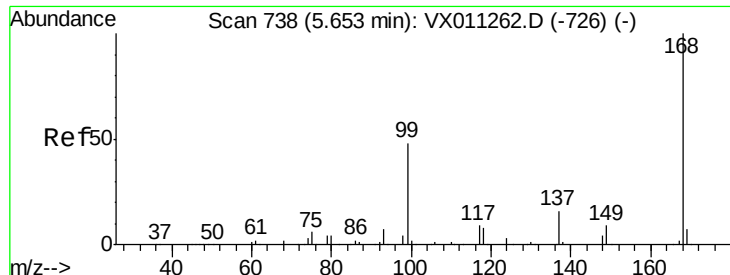
Instrument :  
MSVOA\_X  
ClientSampleId :  
Z3-0672

Manual Integrations  
APPROVED

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8/12/2019 12:50:27 PM

Quant Time: Aug 11 00:41:46 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 02 01:55:00 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011410.D

Acq: 09 Aug 2019 15:19

Instrument :

MSVOA\_X

ClientSampleId :

Z3-0672

Tot Ion:168 Resp: 225770

Ion Ratio Lower Upper

168 100

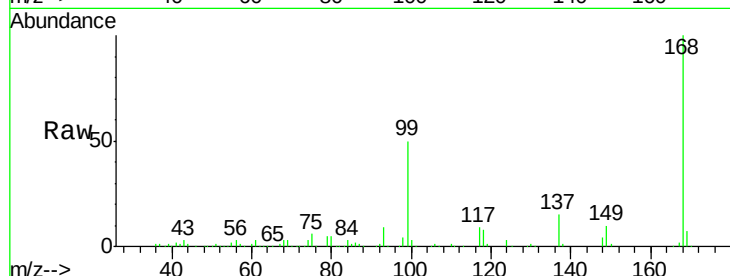
99 49.9 38.5 57.7

Manual Integrations

APPROVED

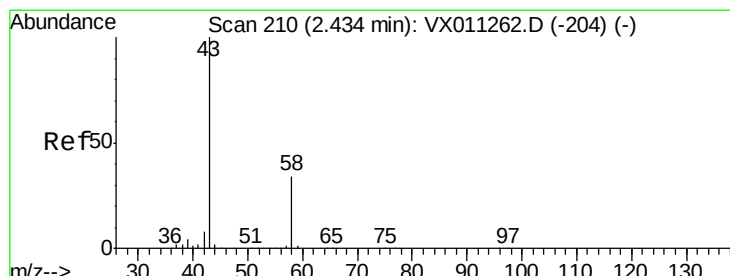
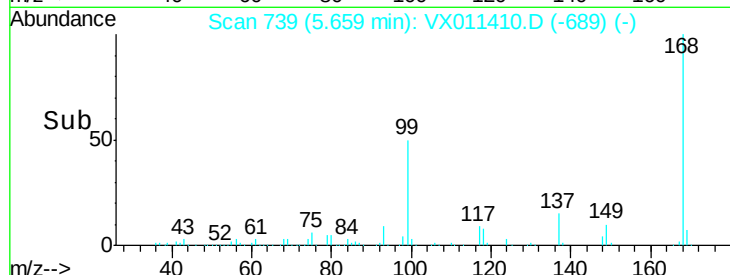
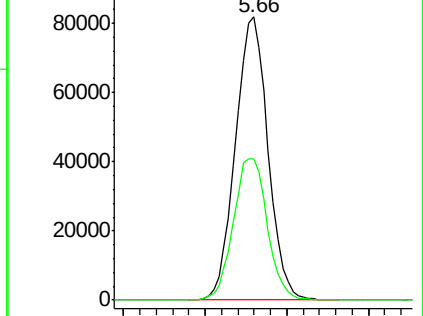
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#16

Acetone

Concen: 6.919 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011410.D

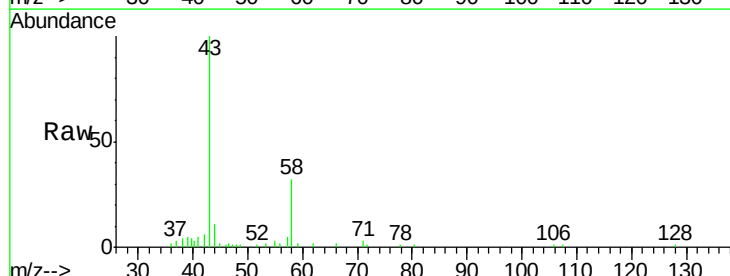
Acq: 09 Aug 2019 15:19

Tgt Ion: 43 Resp: 7488

Ion Ratio Lower Upper

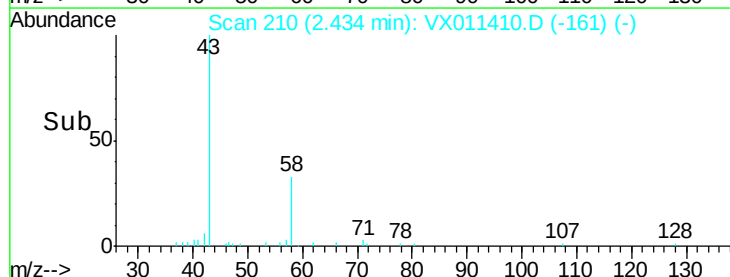
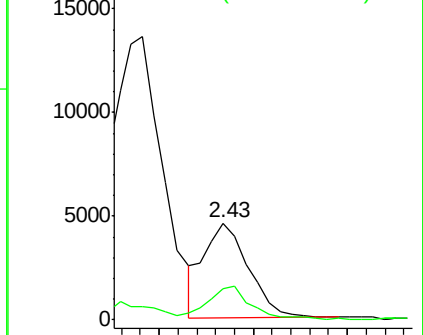
43 100

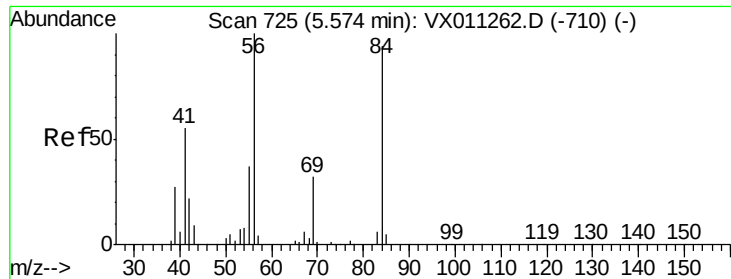
58 31.1 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





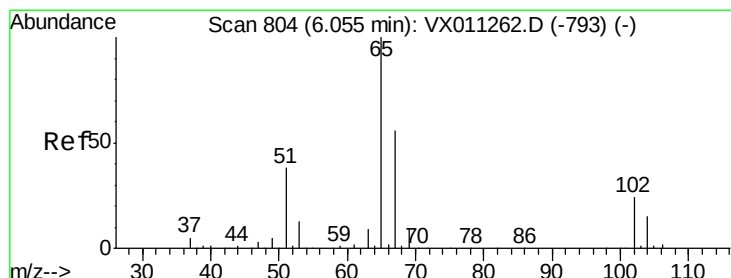
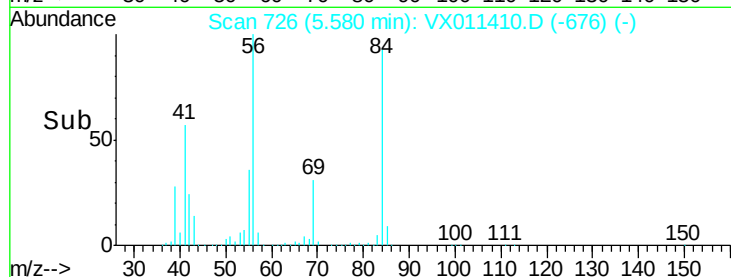
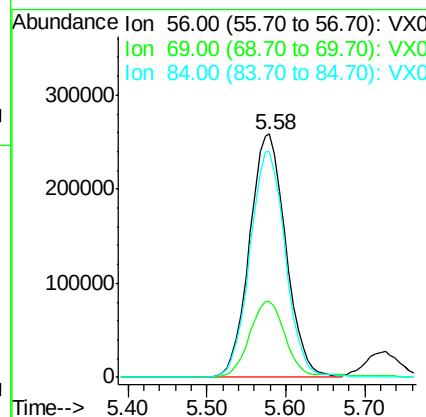
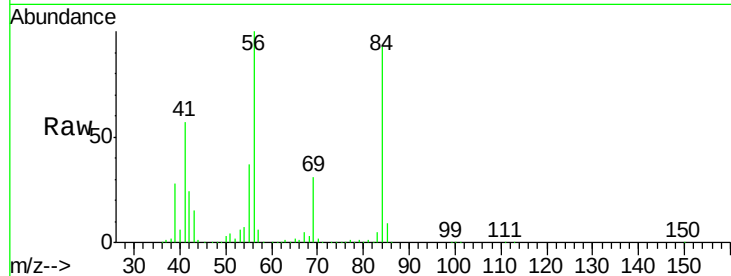
#31  
Cyclohexane  
Concen: 282.092 ug/l  
RT: 5.58 min Scan# 726  
Delta R.T. 0.01 min  
Lab File: VX011410.D  
Acq: 09 Aug 2019 15:19

Instrument :  
MSVOA\_X  
ClientSampleId :  
Z3-0672

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 31.2  | 25.5  | 38.3  |
| 84      | 92.7  | 75.0  | 112.4 |

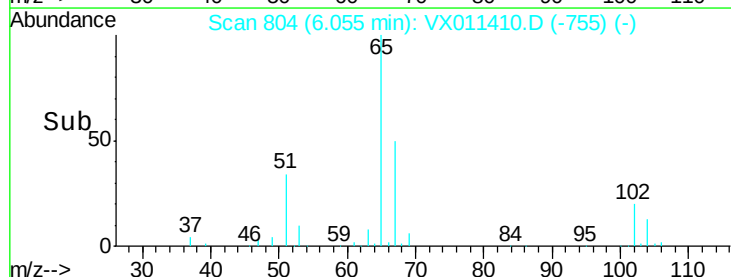
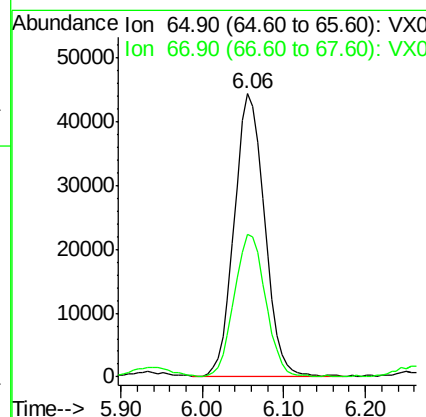
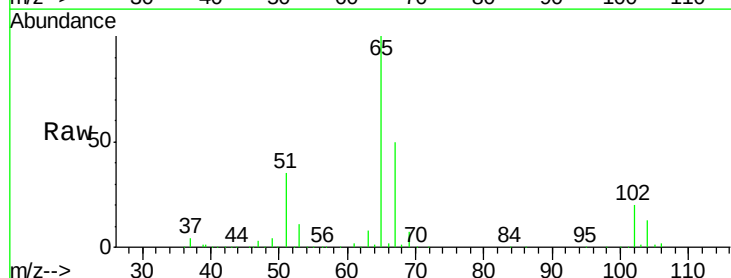
Manual Integrations  
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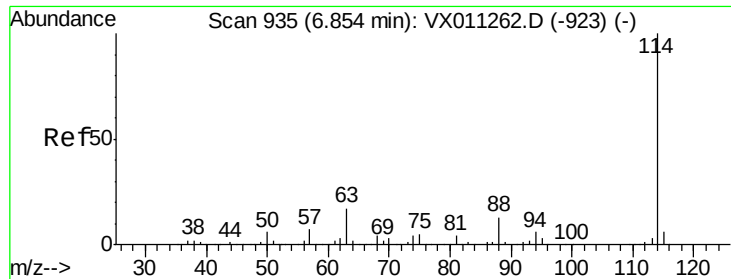
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#33  
1,2-Dichloroethane-d4  
Concen: 50.077 ug/l  
RT: 6.06 min Scan# 804  
Delta R.T. 0.00 min  
Lab File: VX011410.D  
Acq: 09 Aug 2019 15:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 51.8  | 0.0   | 110.6 |





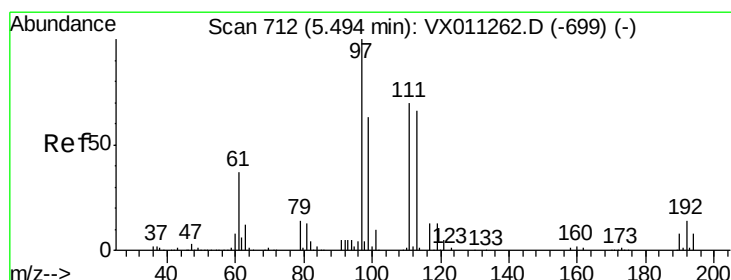
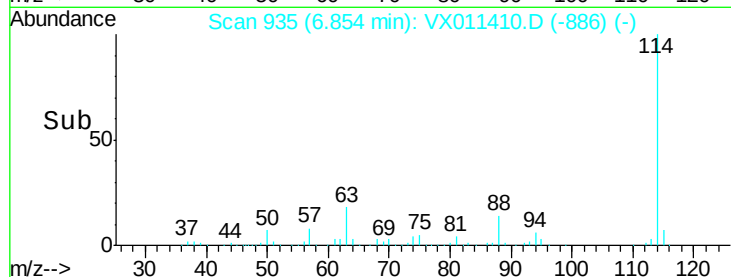
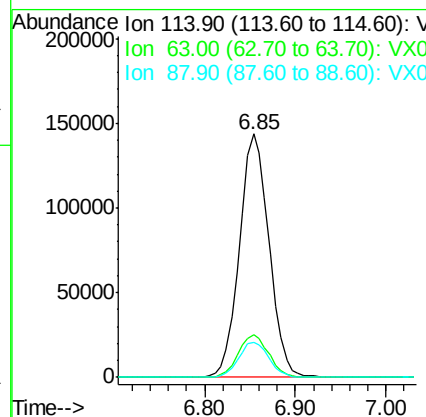
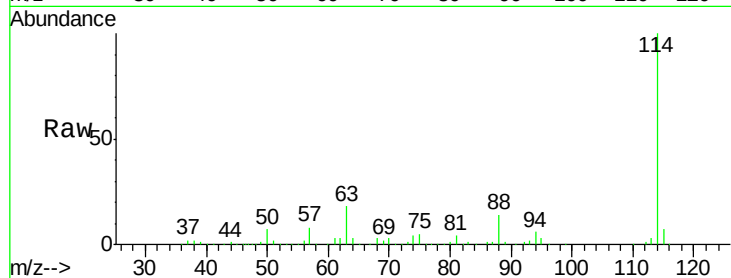
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 935  
 Delta R.T. 0.00 min  
 Lab File: VX011410.D  
 Acq: 09 Aug 2019 15:19

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z3-0672

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 114     | 100   |            |       |
| 63      | 17.7  | 0.0        | 34.0  |
| 88      | 14.4  | 0.0        | 26.4  |

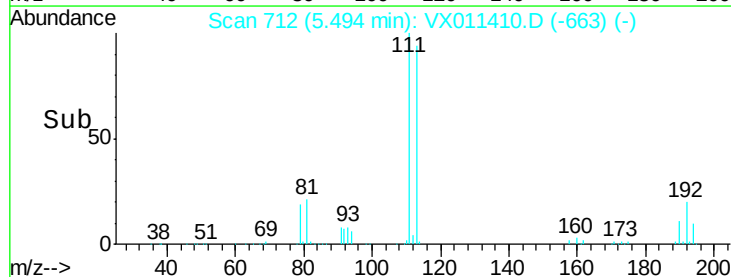
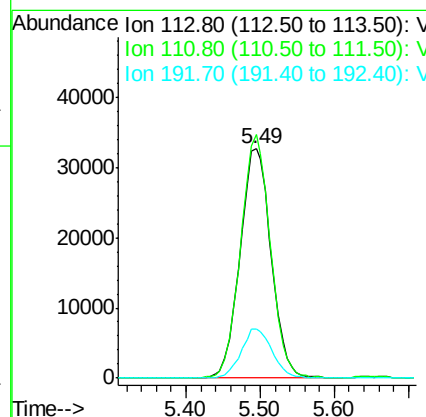
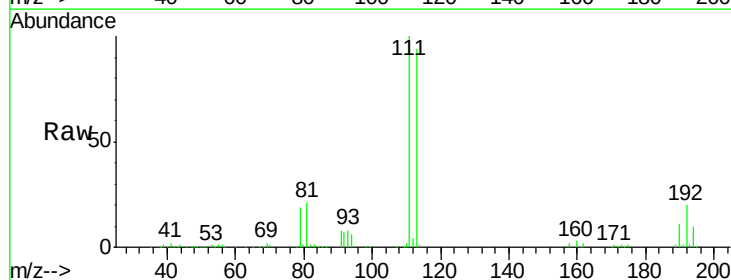
Manual Integrations  
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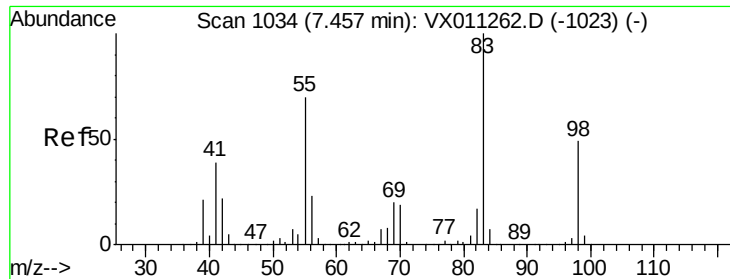
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#35  
 Dibromofluoromethane  
 Concen: 44.965 ug/l  
 RT: 5.49 min Scan# 712  
 Delta R.T. 0.00 min  
 Lab File: VX011410.D  
 Acq: 09 Aug 2019 15:19

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 113     | 100   |            |       |
| 111     | 101.7 | 81.9       | 122.9 |
| 192     | 21.5  | 17.8       | 26.8  |





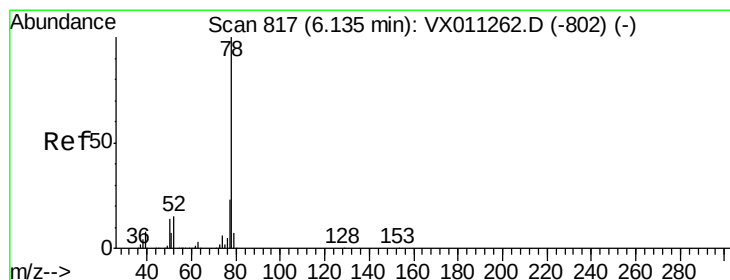
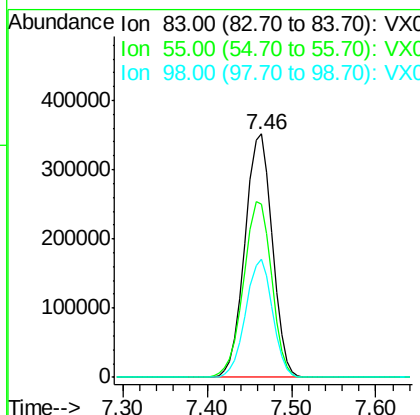
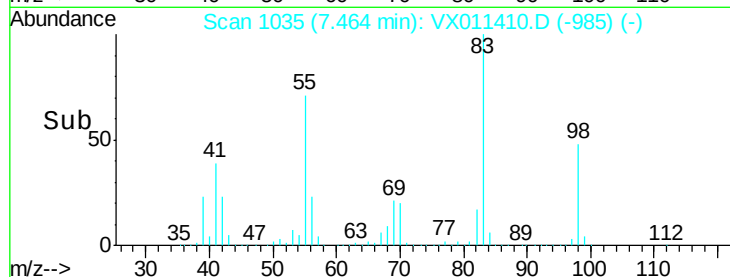
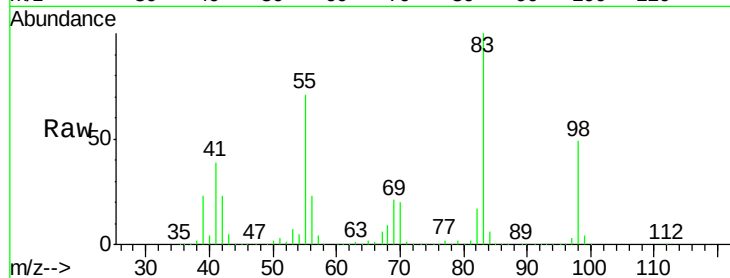
#39  
Methylvlcyclohexane  
Concen: 227.656 ug/l  
RT: 7.46 min Scan# 1035  
Delta R.T. 0.01 min  
Lab File: VX011410.D  
Acq: 09 Aug 2019 15:19

Instrument :  
MSVOA\_X  
ClientSampleId :  
Z3-0672

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 83      | 100   | 769361 |       |       |
| 55      | 71.0  |        | 56.1  | 84.1  |
| 98      | 48.6  |        | 39.0  | 58.4  |

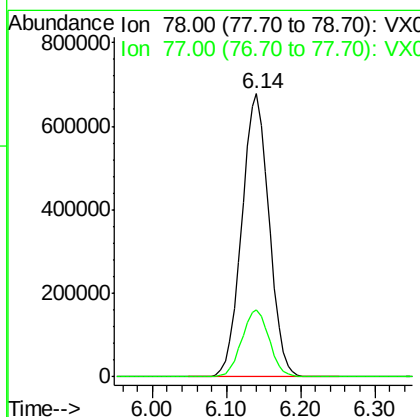
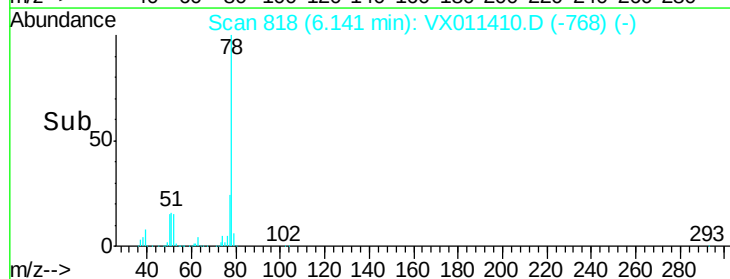
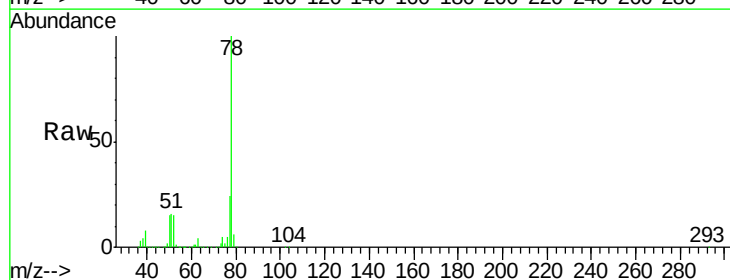
Manual Integrations  
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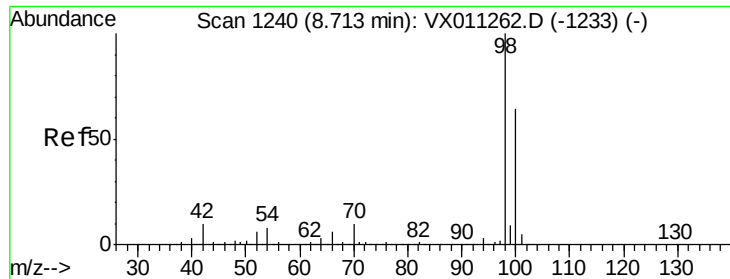
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8/12/2019 12:50:27 PM



#40  
Benzene  
Concen: 204.610 ug/l  
RT: 6.14 min Scan# 818  
Delta R.T. 0.01 min  
Lab File: VX011410.D  
Acq: 09 Aug 2019 15:19

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 78      | 100   | 1740791 |       |       |
| 77      | 23.6  |         | 18.2  | 27.2  |





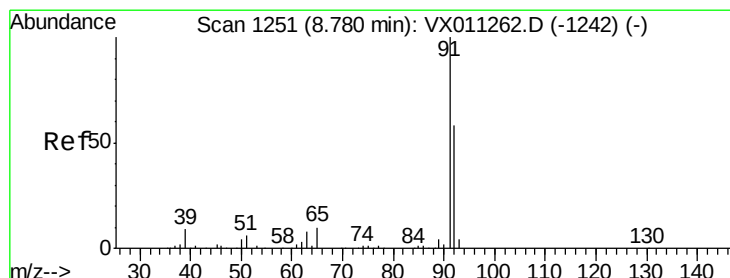
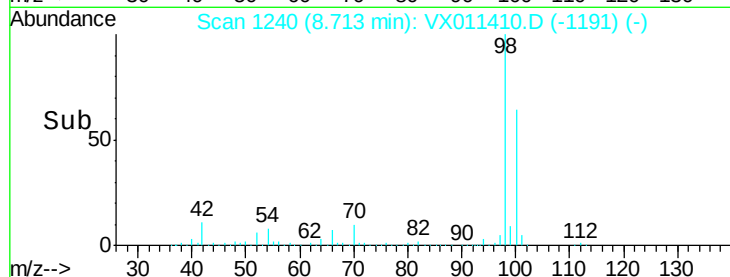
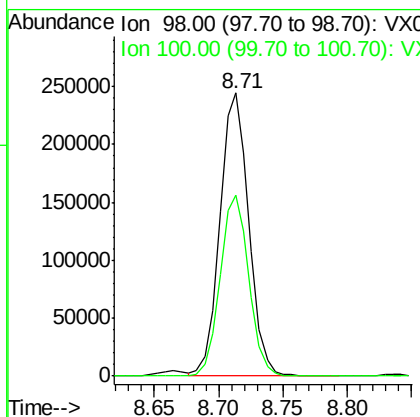
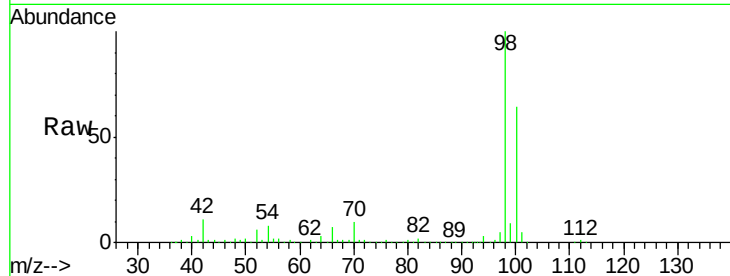
#50  
Toluene-d8  
Concen: 47.652 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX011410.D  
Acq: 09 Aug 2019 15:19

Instrument :  
MSVOA\_X  
ClientSampled :  
Z3-0672

Tot Ion: 98 Resp: 383483  
Ion Ratio Lower Upper  
98 100  
100 63.8 51.7 77.5

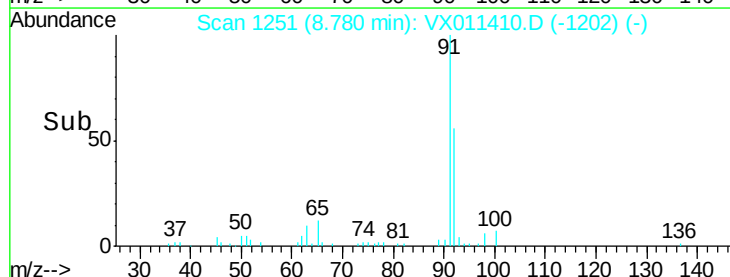
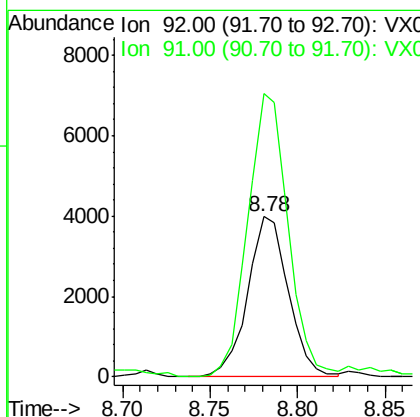
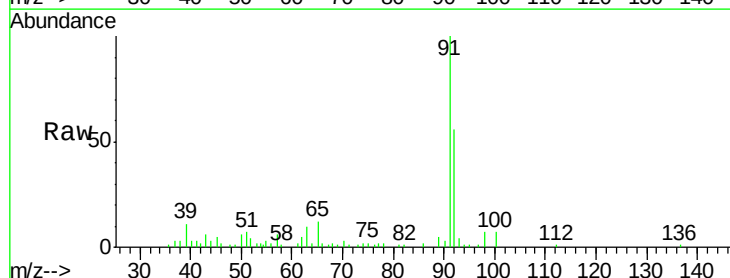
Manual Integrations  
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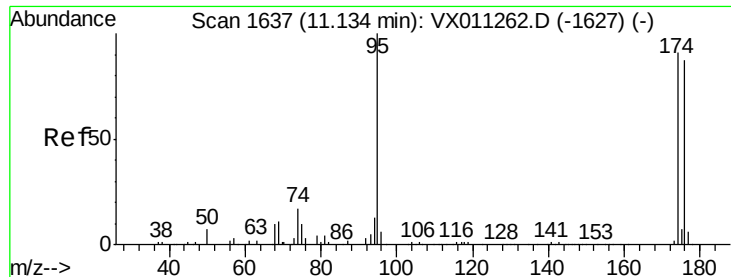
MMDadoda  
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#52  
Toluene  
Concen: 1.150 ug/l  
RT: 8.78 min Scan# 1251  
Delta R.T. 0.00 min  
Lab File: VX011410.D  
Acq: 09 Aug 2019 15:19

Tgt Ion: 92 Resp: 6468  
Ion Ratio Lower Upper  
92 100  
91 174.6 139.4 209.0





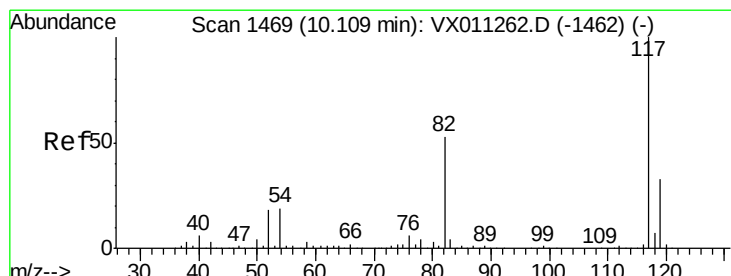
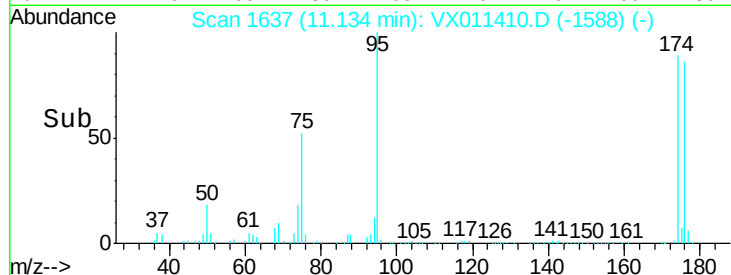
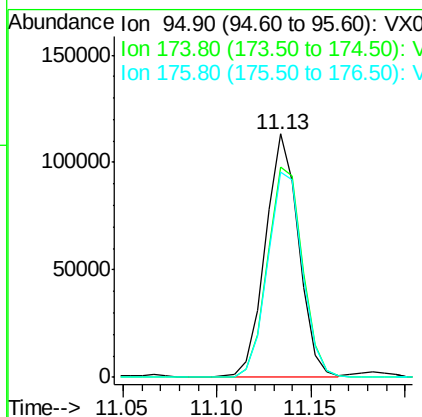
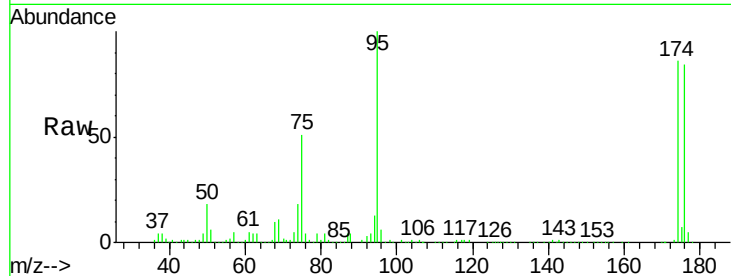
#62  
4-Bromofluorobenzene  
Concen: 48.146 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX011410.D  
Acq: 09 Aug 2019 15:19

Instrument :  
MSVOA\_X  
ClientSampleId :  
Z3-0672

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 95      | 100   | 138334 |       |       |
| 174     | 91.2  | 0.0    | 191.2 |       |
| 176     | 88.7  | 0.0    | 184.8 |       |

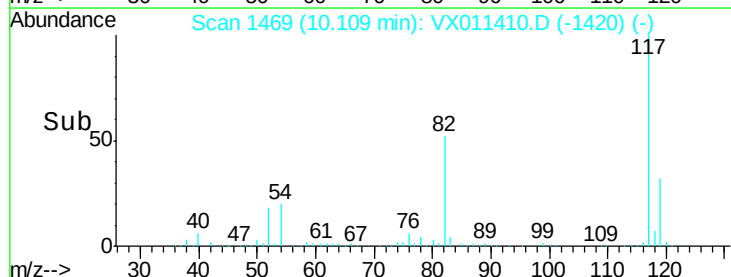
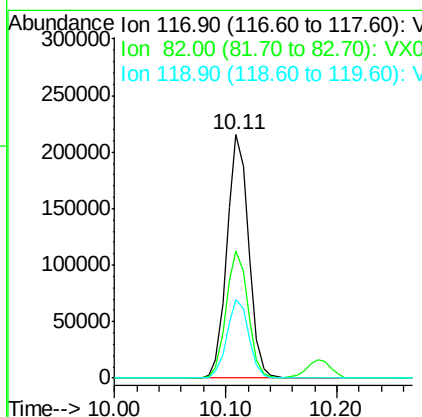
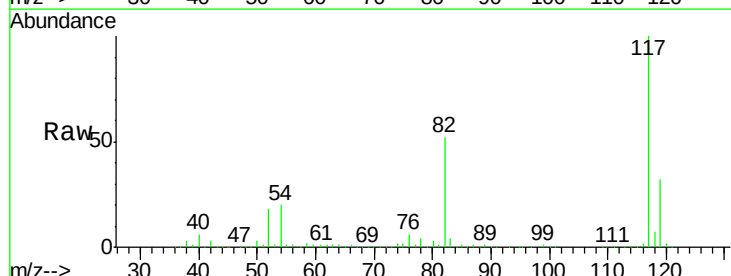
Manual Integrations  
APPROVED

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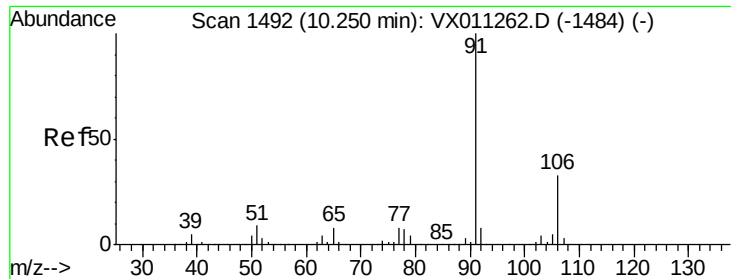


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX011410.D  
Acq: 09 Aug 2019 15:19

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 290191 |       |       |
| 82      | 52.2  | 42.2   | 63.2  |       |
| 119     | 32.1  | 26.6   | 39.8  |       |







#67

Ethyl Benzene

Concen: 427.323 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX011410.D

Acq: 09 Aug 2019 15:19

Instrument :

MSVOA\_X

ClientSampleId :

Z3-0672

Tot Ion: 91 Resp: 4452880

Ion Ratio Lower Upper

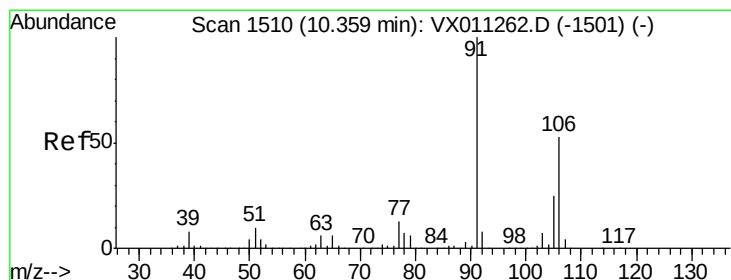
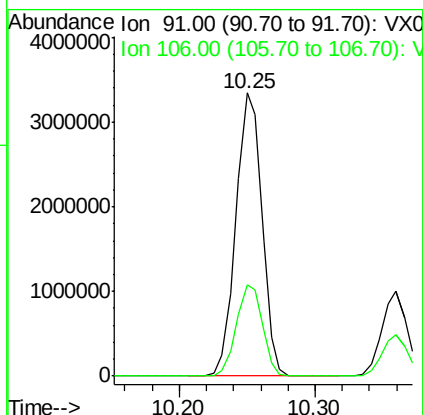
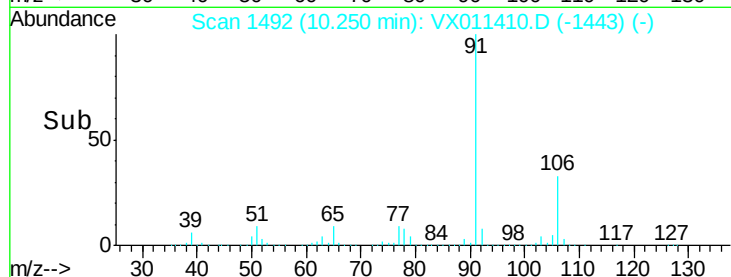
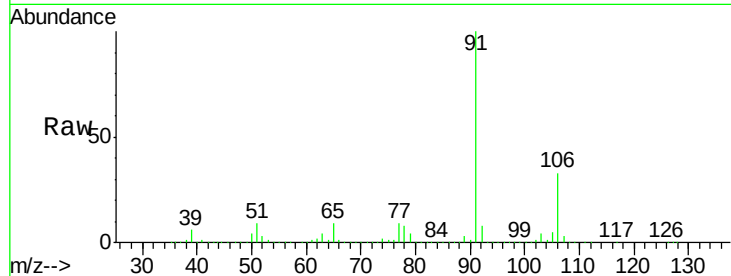
91 100

106 32.5 26.2 39.4

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#68

m/p-Xylenes

Concen: 157.480 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX011410.D

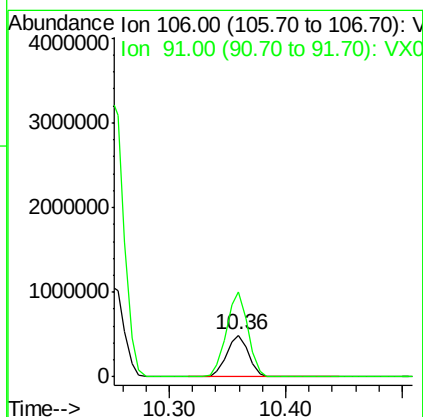
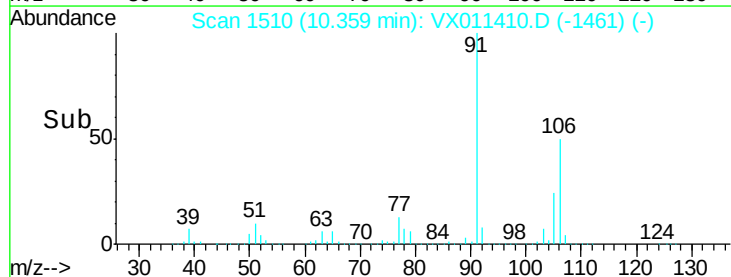
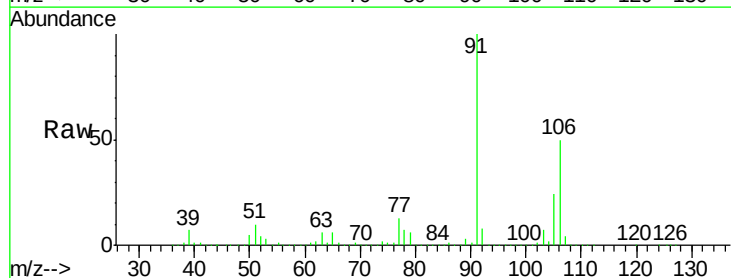
Acq: 09 Aug 2019 15:19

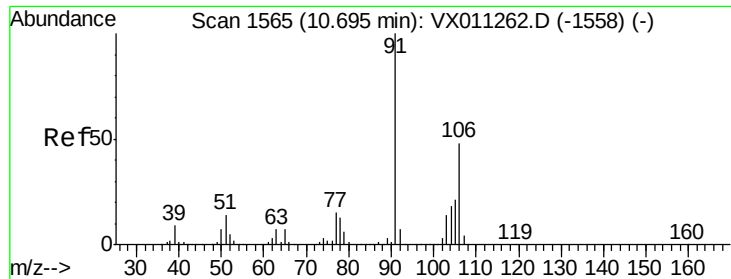
Tgt Ion: 106 Resp: 634738

Ion Ratio Lower Upper

106 100

91 202.1 155.9 233.9





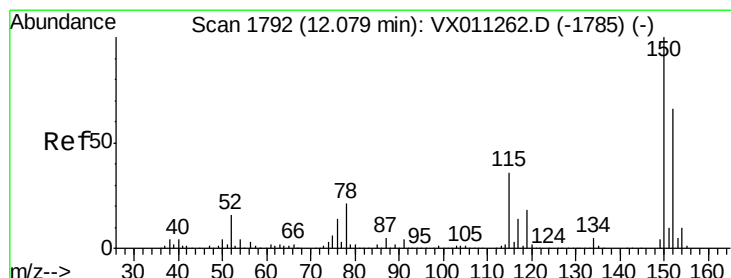
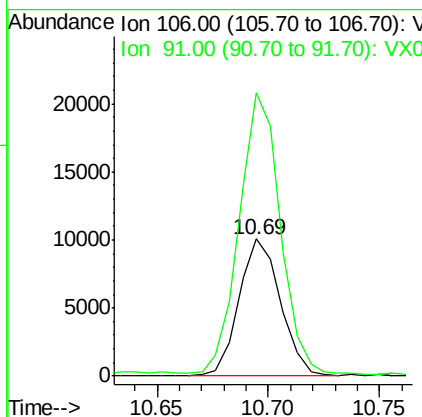
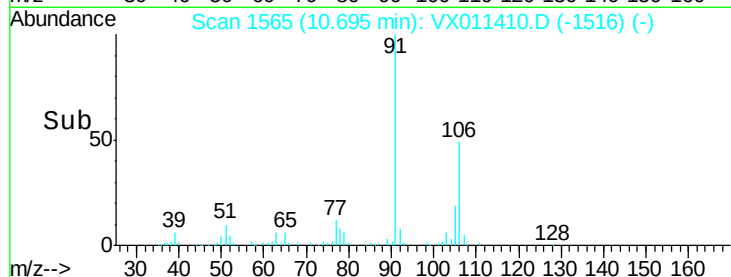
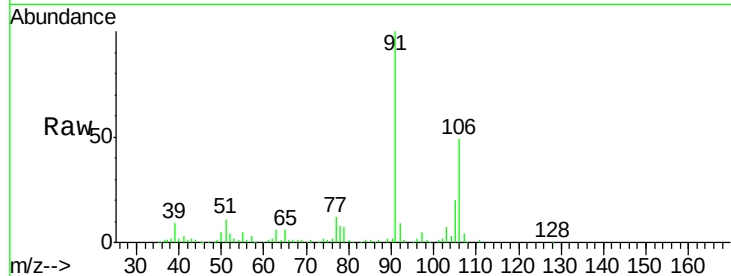
#69  
o-Xylene  
Concen: 3.301 ug/l  
RT: 10.69 min Scan# 1565  
Delta R.T. 0.00 min  
Lab File: VX011410.D  
Acq: 09 Aug 2019 15:19

Instrument :  
MSVOA\_X  
ClientSampled :  
Z3-0672

Tot Ion:106 Resp: 13072  
Ion Ratio Lower Upper  
106 100  
91 202.9 103.8 311.3

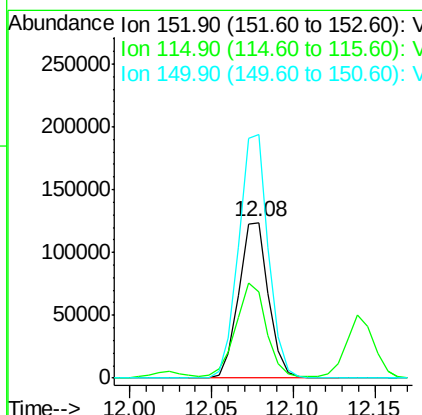
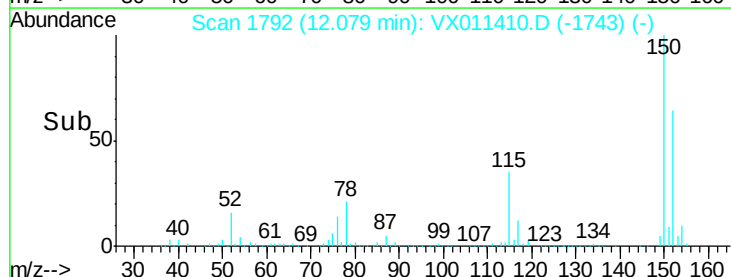
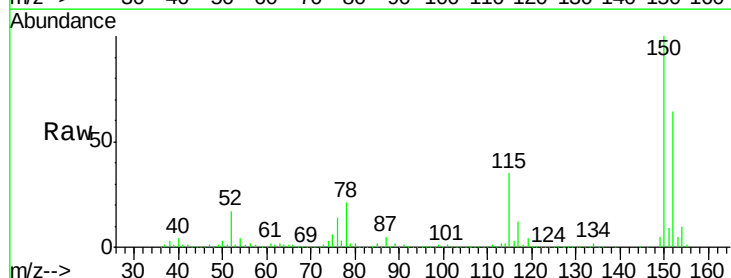
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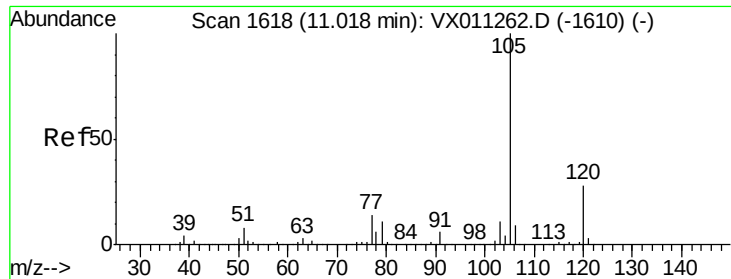
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#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX011410.D  
Acq: 09 Aug 2019 15:19

Tgt Ion:152 Resp: 157131  
Ion Ratio Lower Upper  
152 100  
115 62.5 40.0 119.9  
150 156.8 0.0 350.4





#73

Isopropylbenzene

Concen: 43.654 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX011410.D

Acq: 09 Aug 2019 15:19

Instrument :

MSVOA\_X

ClientSampleId :

Z3-0672

Tot Ion:105 Resp: 469138

Ion Ratio Lower Upper

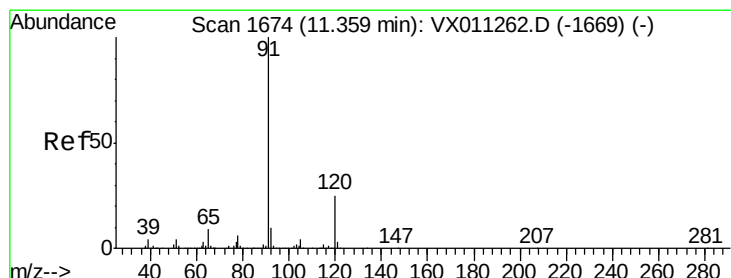
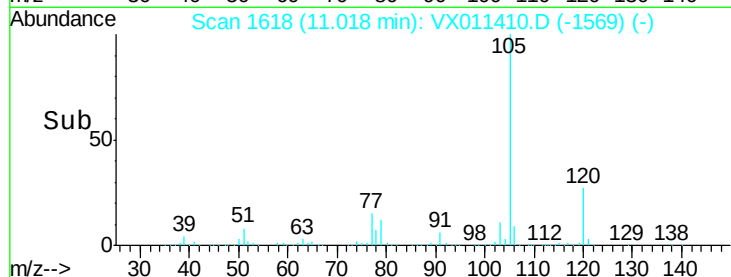
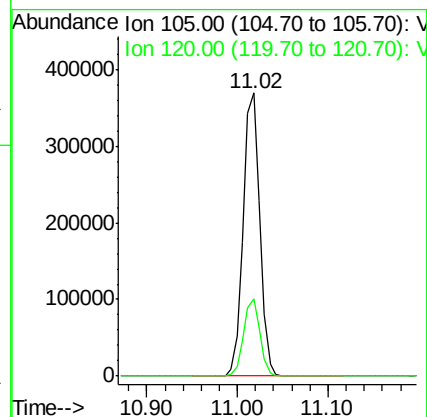
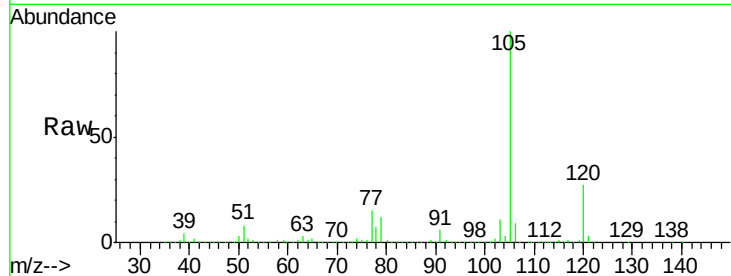
105 100

120 26.7 13.7 41.1

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#78

n-propylbenzene

Concen: 52.234 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX011410.D

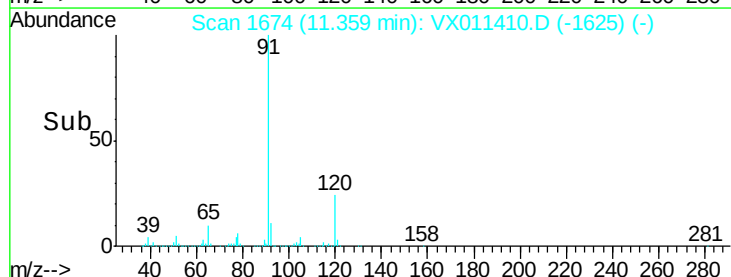
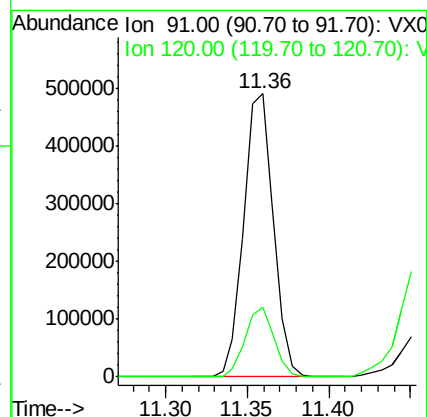
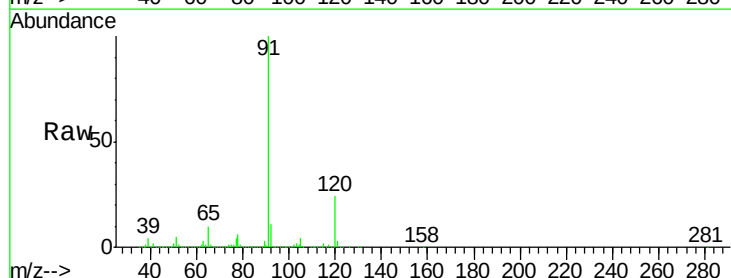
Acq: 09 Aug 2019 15:19

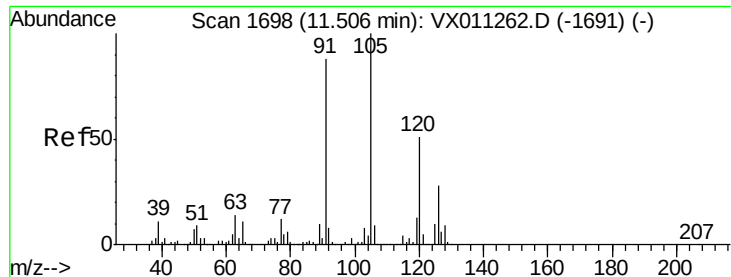
Tgt Ion: 91 Resp: 624242

Ion Ratio Lower Upper

91 100

120 23.9 12.4 37.0





#80

1,3,5-Trimethylbenzene

Concen: 52.511 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX011410.D

Acq: 09 Aug 2019 15:19

Instrument :

MSVOA\_X

ClientSampleId :

Z3-0672

Tot Ion:105 Resp: 472396

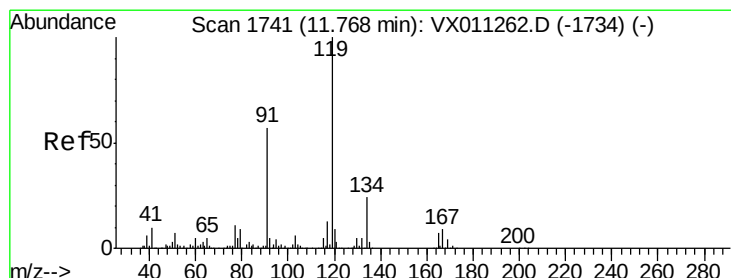
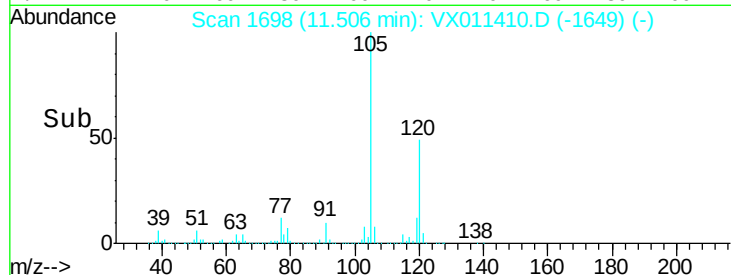
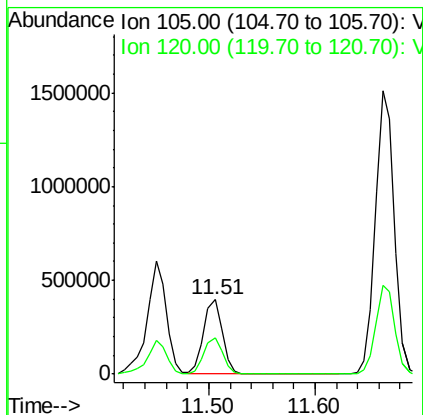
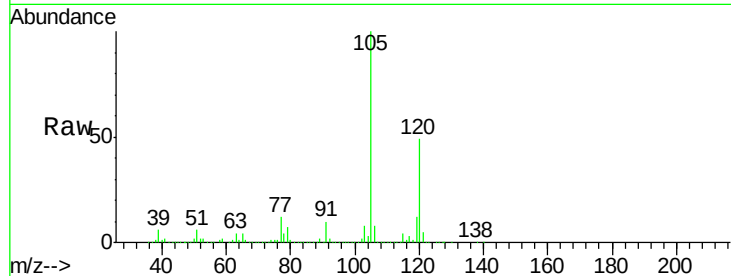
Ion Ratio Lower Upper

105 100

120 48.6 25.1 75.2

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#83

tert-Butylbenzene

Concen: 0.920 ug/l m

RT: 11.77 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX011410.D

Acq: 09 Aug 2019 15:19

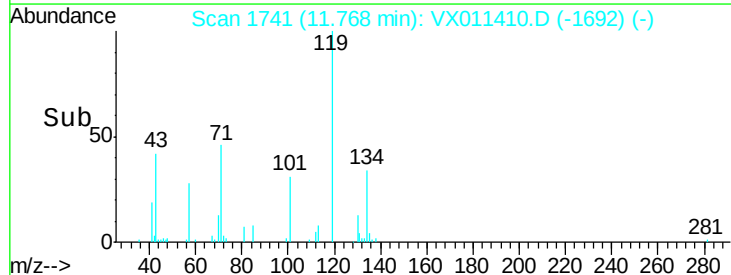
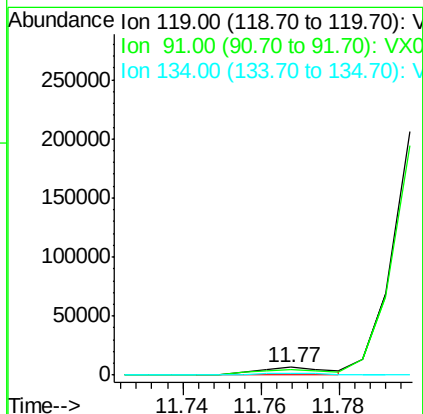
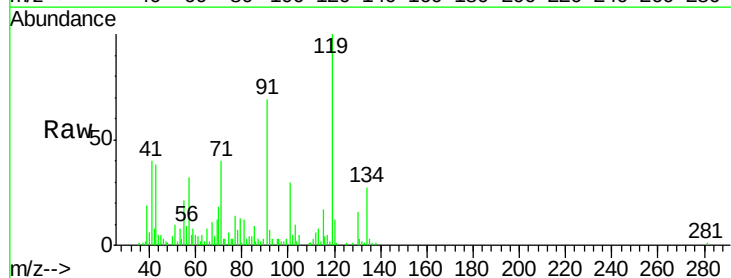
Tgt Ion:119 Resp: 8113

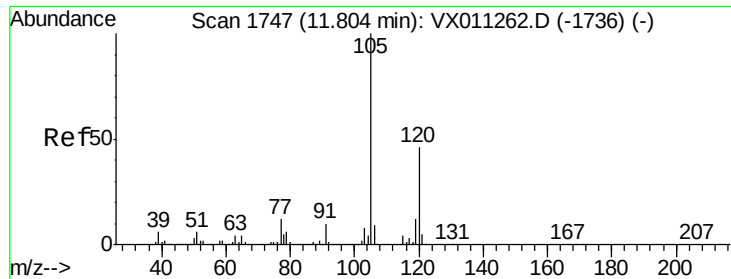
Ion Ratio Lower Upper

119 100

91 4760.1 28.0 84.0#

134 0.0 11.9 35.5#





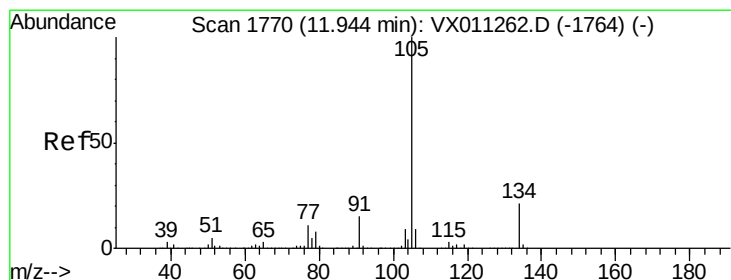
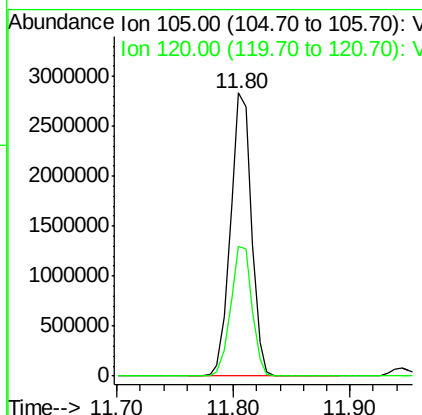
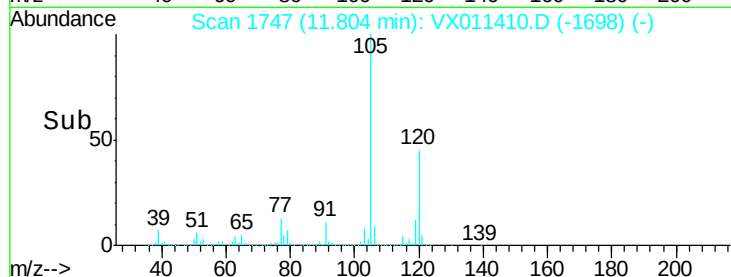
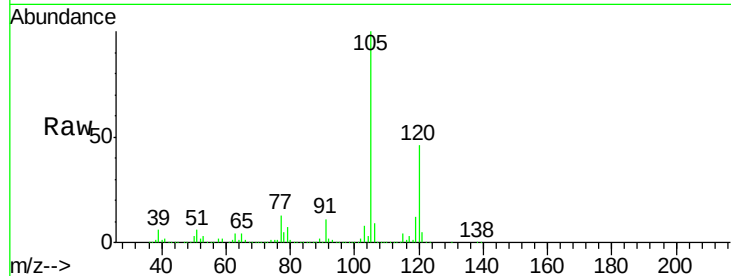
#84  
 1,2,4-Trimethylbenzene  
 Concen: 395.075 ug/l  
 RT: 11.80 min Scan# 1747  
 Delta R.T. 0.00 min  
 Lab File: VX011410.D  
 Acq: 09 Aug 2019 15:19

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 Z3-0672

Tot Ion:105 Resp: 3538580  
 Ion Ratio Lower Upper  
 105 100  
 120 46.4 23.0 69.0

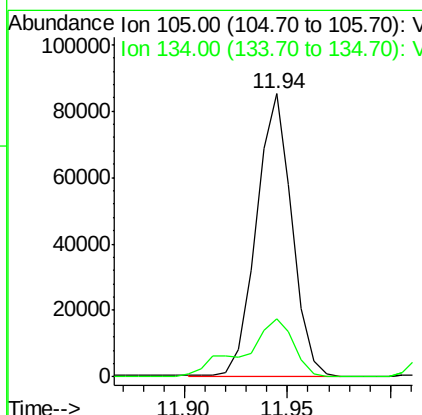
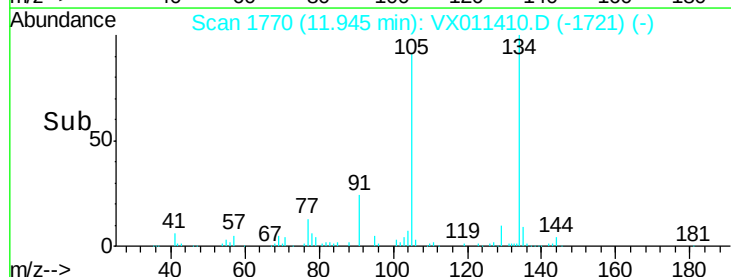
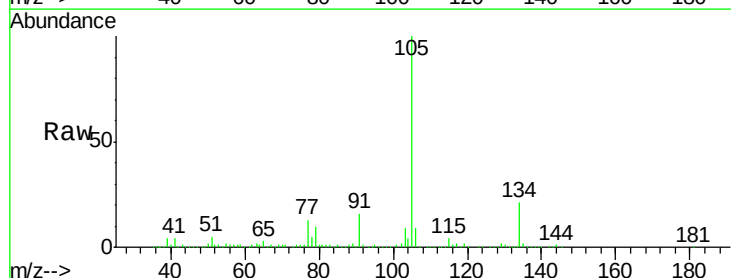
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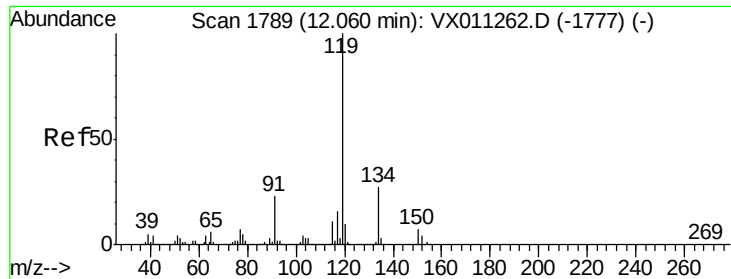
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#85  
 sec-Butylbenzene  
 Concen: 9.697 ug/l m  
 RT: 11.94 min Scan# 1770  
 Delta R.T. 0.00 min  
 Lab File: VX011410.D  
 Acq: 09 Aug 2019 15:19

Tgt Ion:105 Resp: 102791  
 Ion Ratio Lower Upper  
 105 100  
 134 0.0 10.4 31.4#





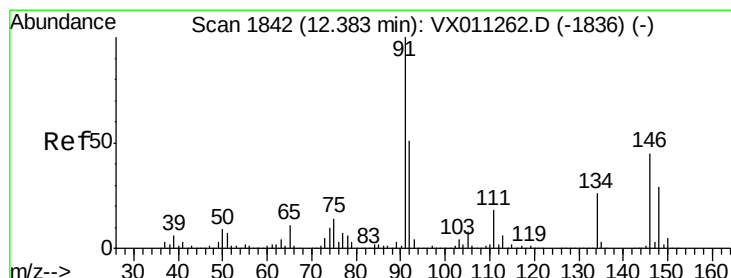
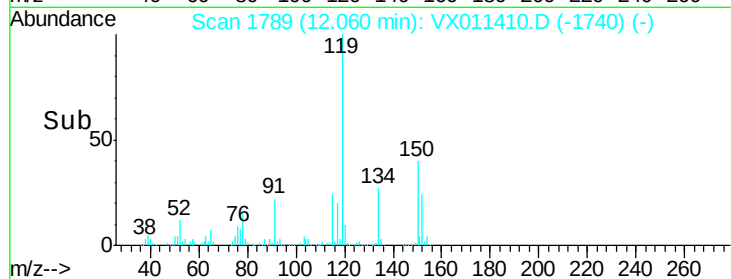
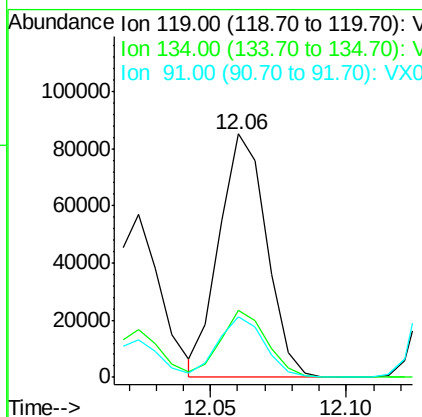
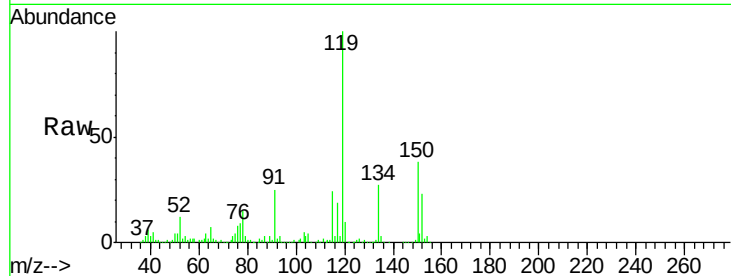
#86  
 p-Isopropyltoluene  
 Concen: 10.479 ug/l  
 RT: 12.06 min Scan# 1789  
 Delta R.T. 0.00 min  
 Lab File: VX011410.D  
 Acq: 09 Aug 2019 15:19

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 Z3-0672

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 119     | 100   | 102193 |       |       |
| 134     | 27.1  |        | 13.7  | 41.0  |
| 91      | 23.9  |        | 11.4  | 34.2  |

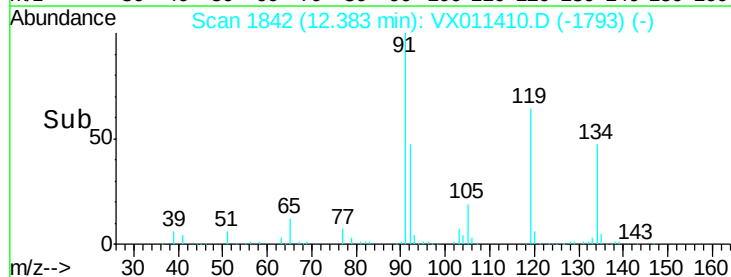
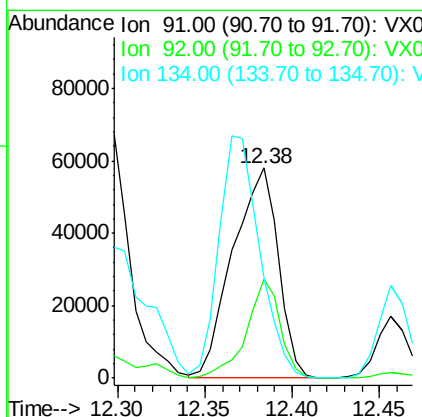
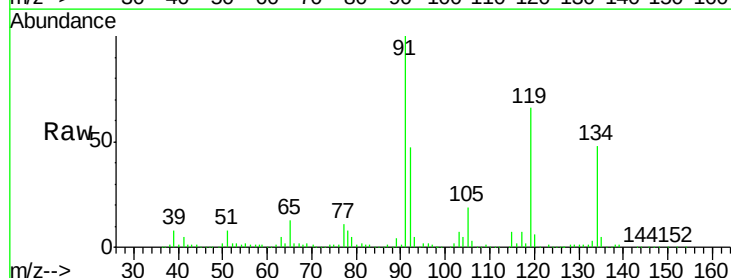
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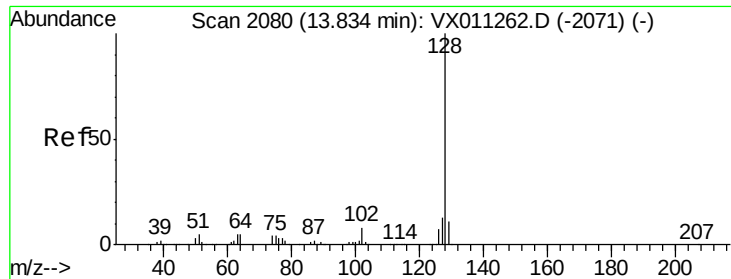
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#89  
 n-Butylbenzene  
 Concen: 12.399 ug/l  
 RT: 12.38 min Scan# 1842  
 Delta R.T. 0.00 min  
 Lab File: VX011410.D  
 Acq: 09 Aug 2019 15:19

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 91      | 100   | 104178 |       |       |
| 92      | 34.8  |        | 25.8  | 77.3  |
| 134     | 103.9 |        | 13.7  | 41.0# |





#95  
Naphthalene  
Concen: 64.854 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. 0.00 min  
Lab File: VX011410.D  
Acq: 09 Aug 2019 15:19

Instrument :  
MSVOA\_X  
ClientSampleId :  
Z3-0672

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 128     | 100   |            |            |
| 127     | 13.2  | 10.4       | 15.6       |
| 129     | 11.3  | 8.9        | 13.3       |

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