

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\  
 Data File : VL032960.D  
 Acq On : 11 Dec 2018 18:41  
 Operator : SY/AP  
 Sample : J6264-12  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 A55G4

Manual Integrations  
 APPROVED

MMDadoda  
 12/13/2018 7:58:41 AM

Quant Time: Dec 12 16:04:36 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Dec 0  
 QLast Update : Fri Dec 07 09:35:17 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.77  | 49   | 1307369  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.30  | 114  | 3240539  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.25 | 117  | 3214149  | 10.00 | ppbv  | 0.00     |

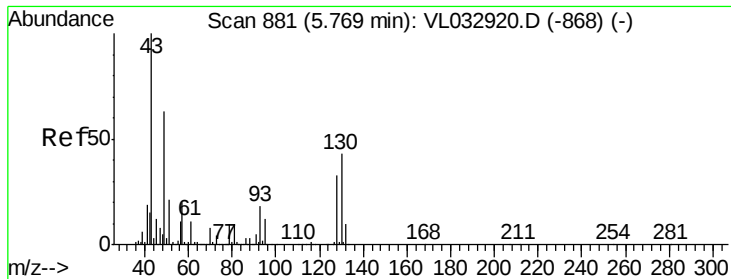
System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.59  | 95    | 2486187  | 10.47    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 104.70% |

| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Ovalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 2) Dichlorodifluoromethane | 3.08  | 85   | 25472    | 0.146   | ppbv   | 98     |
| 3) Chlorodifluoromethane   | 3.01  | 51   | 23568m   | 0.238   | ppbv   |        |
| 4) Chloromethane           | 3.17  | 50   | 35312    | 0.613   | ppbv # | 88     |
| 9) Propene                 | 3.05  | 41   | 164501m  | 4.202   | ppbv   |        |
| 10) Heptane                | 8.25  | 43   | 641812   | 4.364   | ppbv   | 100    |
| 11) Trichlorofluoromethane | 4.01  | 101  | 411883   | 2.505   | ppbv   | 98     |
| 13) Ethanol                | 3.66  | 45   | 924619   | 68.593  | ppbv   | 95     |
| 15) Acetone                | 3.90  | 43   | 14889378 | 132.686 | ppbv # | 83     |
| 17) tert-Butyl alcohol     | 4.37  | 59   | 208473   | 7.297   | ppbv # | 78     |
| 19) Isopropyl Alcohol      | 4.04  | 45   | 666843   | 9.463   | ppbv # | 95     |
| 20) Methylene Chloride     | 4.42  | 84   | 85162    | 1.553   | ppbv # | 94     |
| 26) Hexane                 | 5.79  | 57   | 926692   | 7.572   | ppbv # | 43     |
| 27) Carbon Disulfide       | 4.62  | 76   | 500167   | 3.269   | ppbv   | 98     |
| 30) Cyclohexane            | 7.25  | 84   | 174423   | 1.720   | ppbv   | 95     |
| 34) 2-Butanone             | 5.33  | 43   | 1991701  | 14.110  | ppbv   | 100    |
| 35) Carbon Tetrachloride   | 7.15  | 117  | 13717    | 0.054   | ppbv # | 86     |
| 36) Benzene                | 7.01  | 78   | 1440913  | 6.045   | ppbv   | 98     |
| 38) Trichloroethene        | 7.97  | 130  | 14948m   | 0.151   | ppbv   |        |
| 40) 1,4-Dioxane            | 7.96  | 88   | 397847m  | 11.949  | ppbv   |        |
| 44) 2,2,4-Trimethylpentane | 8.00  | 57   | 1165380  | 2.880   | ppbv   | 91     |
| 50) 4-Methyl-2-Pentanone   | 8.88  | 43   | 179070   | 0.793   | ppbv   | 97     |
| 52) Tetrachloroethene      | 11.38 | 164  | 12189m   | 0.141   | ppbv   |        |
| 53) Toluene                | 9.96  | 91   | 3701967  | 14.645  | ppbv   | 99     |
| 58) Ethyl Benzene          | 12.87 | 91   | 597064   | 1.741   | ppbv   | 93     |
| 59) m/p-Xylene             | 13.13 | 91   | 1101005  | 3.542   | ppbv # | 100    |
| 60) o-Xylene               | 13.86 | 91   | 364427   | 1.161   | ppbv   | 100    |
| 61) Styrene                | 13.69 | 104  | 245850m  | 1.177   | ppbv   |        |
| 62) Isopropylbenzene       | 14.84 | 105  | 13626128 | 31.111  | ppbv   | 96     |
| 74) 1,2,4-Trimethylbenzene | 16.94 | 105  | 129615   | 0.335   | ppbv # | 71     |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 882

Delta R.T. 0.00 min

Lab File: VL032960.D

Acq: 11 Dec 2018 18:41

Instrument :

MSVOA\_L

ClientSampled :

A55G4

Tot Ion: 49 Resp: 1307369

Ion Ratio Lower Upper

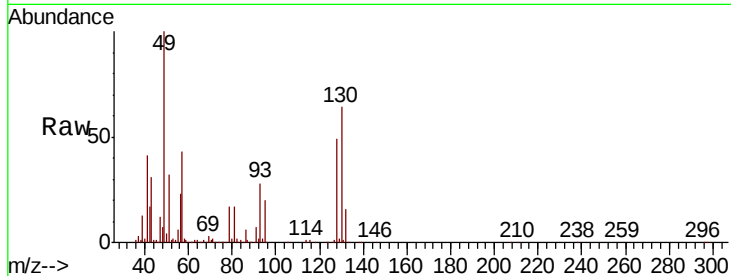
49 100

128 51.4 26.3 78.8

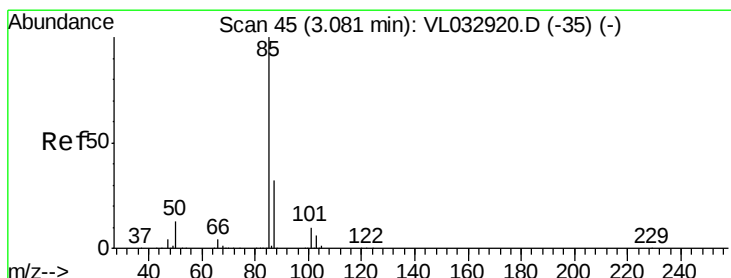
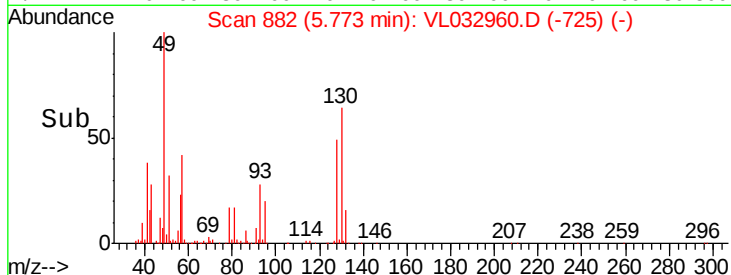
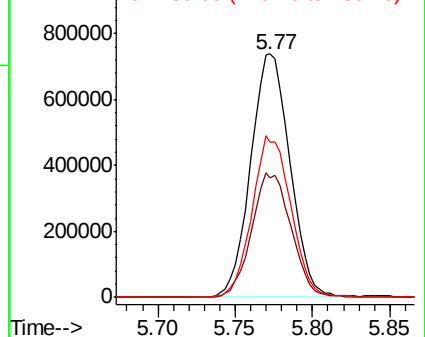
130 65.8 33.9 101.7

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Abundance Ion 49.10 (48.80 to 49.80): VL0  
Ion 128.00 (127.70 to 128.70): V  
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.146 ppbv

RT: 3.08 min Scan# 45

Delta R.T. 0.00 min

Lab File: VL032960.D

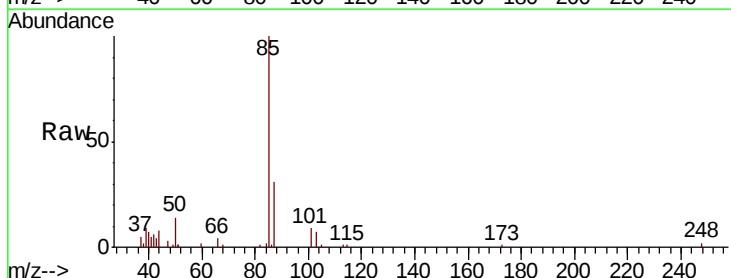
Acq: 11 Dec 2018 18:41

Tgt Ion: 85 Resp: 25472

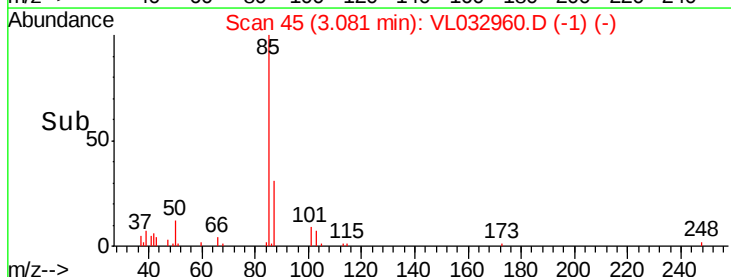
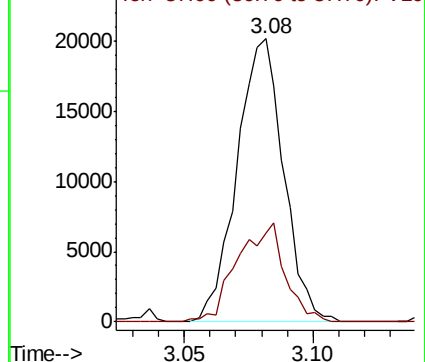
Ion Ratio Lower Upper

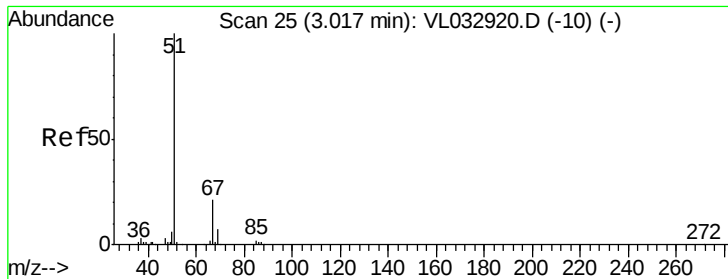
85 100

87 31.2 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0  
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.238 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL032960.D

Acq: 11 Dec 2018 18:41

Instrument :

MSVOA\_L

ClientSampled :

A55G4

Tot Ion: 51 Resp: 23568

Ion Ratio Lower Upper

51 100

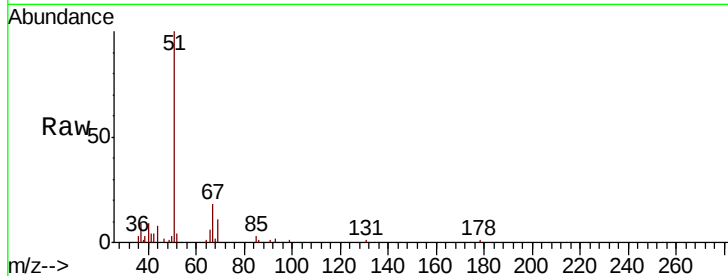
67 21.4 16.8 25.2

Manual Integrations

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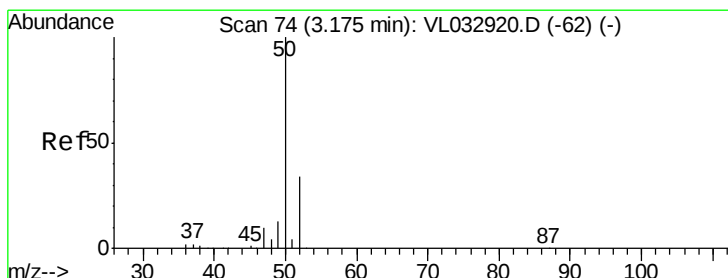
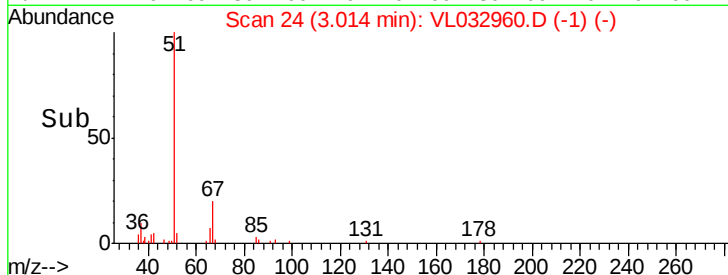
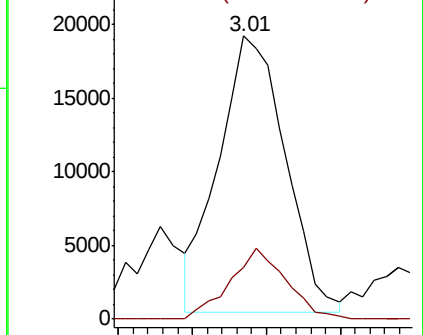
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.613 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032960.D

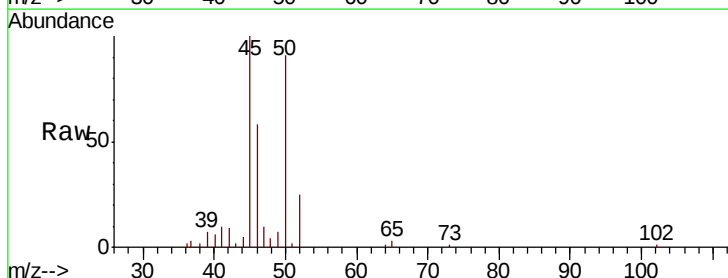
Acq: 11 Dec 2018 18:41

Tgt Ion: 50 Resp: 35312

Ion Ratio Lower Upper

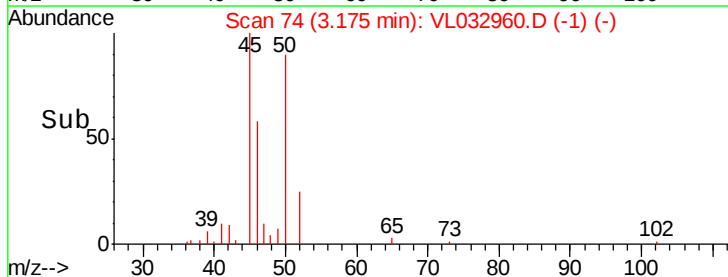
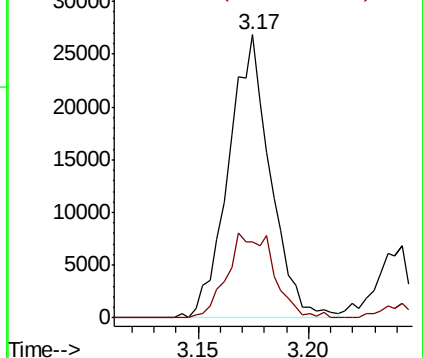
50 100

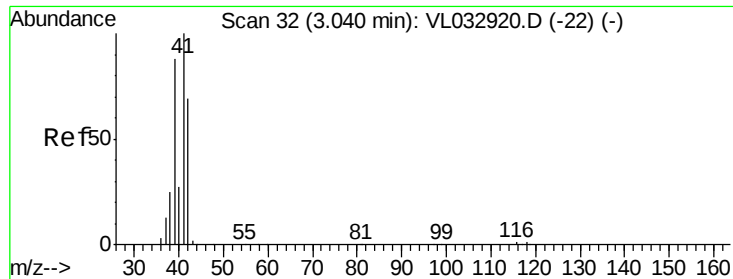
52 27.0 27.3 40.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 4.202 ppbv m

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL032960.D

Acq: 11 Dec 2018 18:41

Instrument :

MSVOA\_L

ClientSampleId :

A55G4

Tot Ion: 41 Resp: 164501

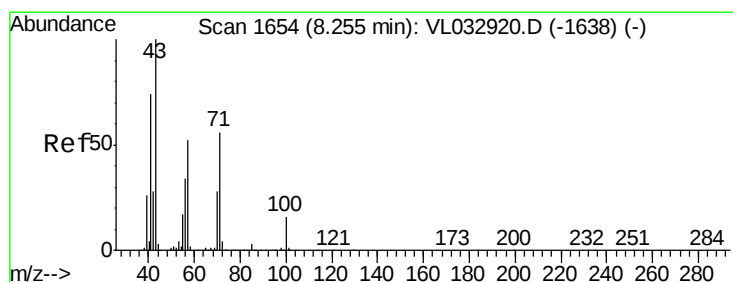
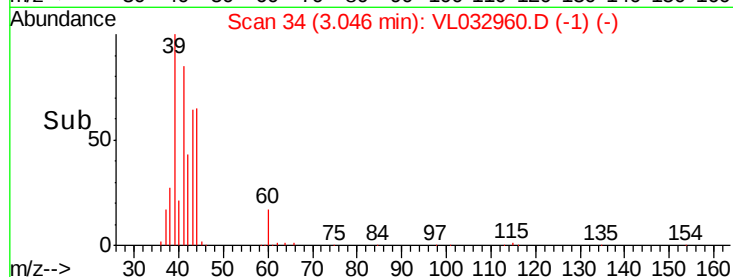
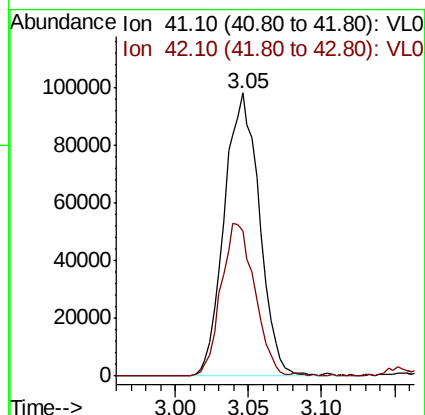
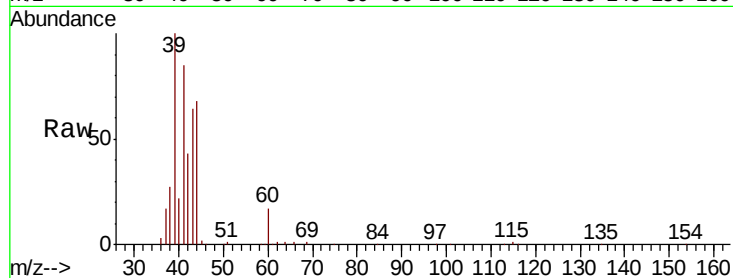
Ion Ratio Lower Upper

41 100

42 187.9 56.2 84.2#

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#10

Heptane

Concen: 4.364 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL032960.D

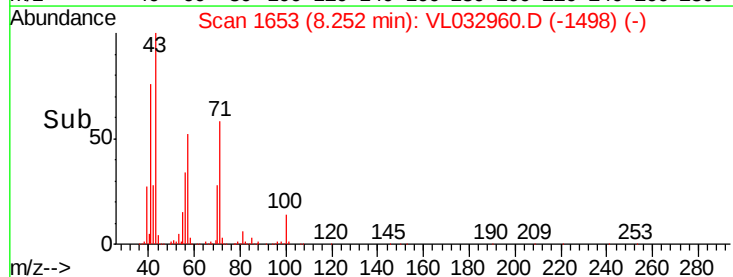
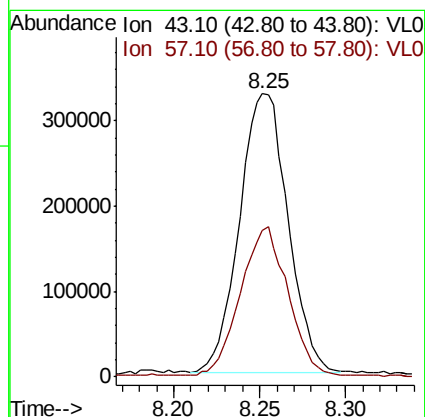
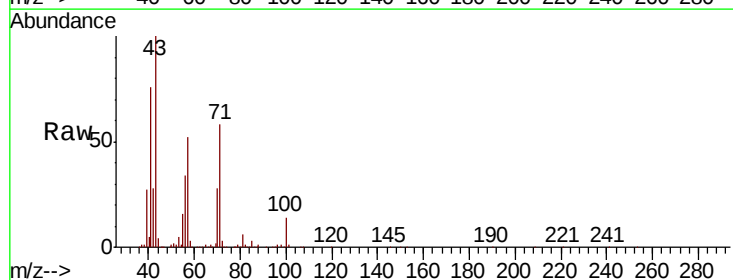
Acq: 11 Dec 2018 18:41

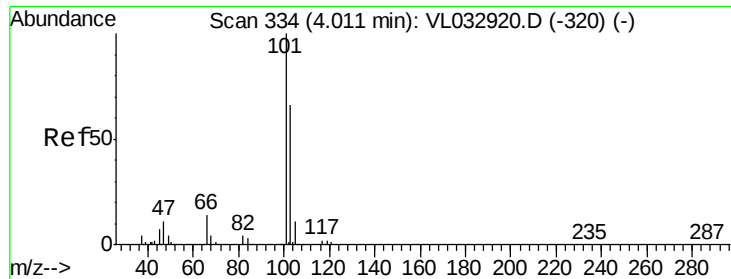
Tgt Ion: 43 Resp: 641812

Ion Ratio Lower Upper

43 100

57 52.3 41.8 62.6





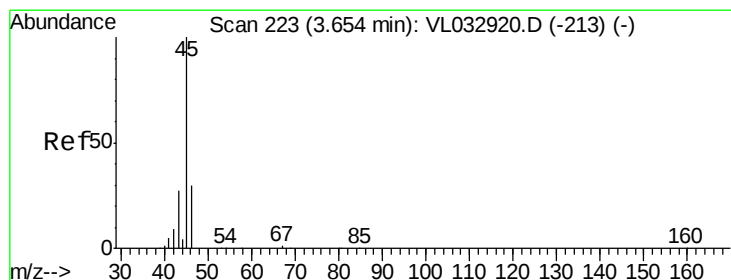
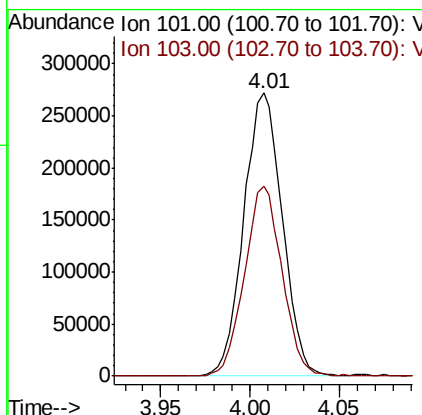
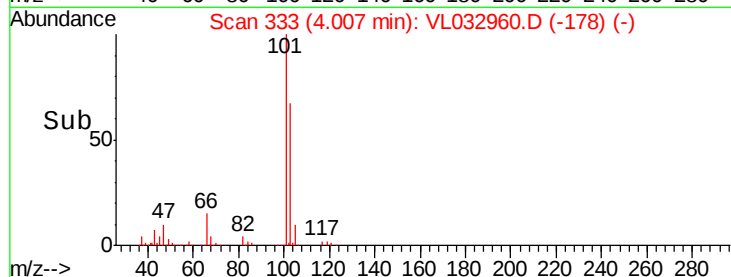
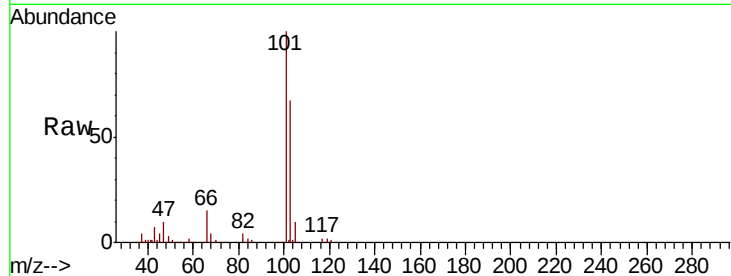
#11  
 Trichlorofluoromethane  
 Concen: 2.505 ppbv  
 RT: 4.01 min Scan# 333  
 Delta R.T. -0.00 min  
 Lab File: VL032960.D  
 Acq: 11 Dec 2018 18:41

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 A55G4

Tot Ion: 101 Resp: 411883  
 Ion Ratio Lower Upper  
 101 100  
 103 67.2 52.7 79.1

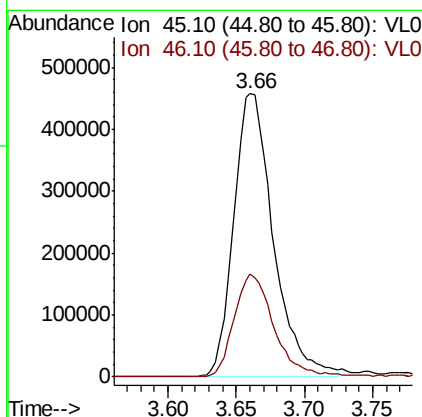
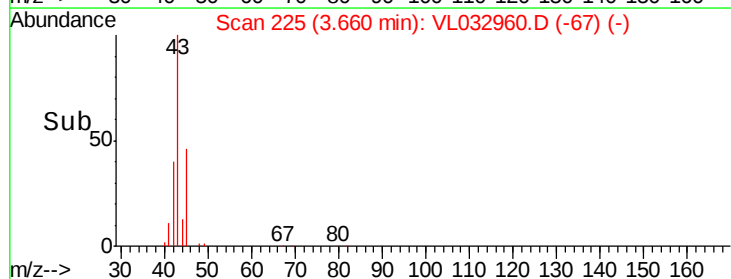
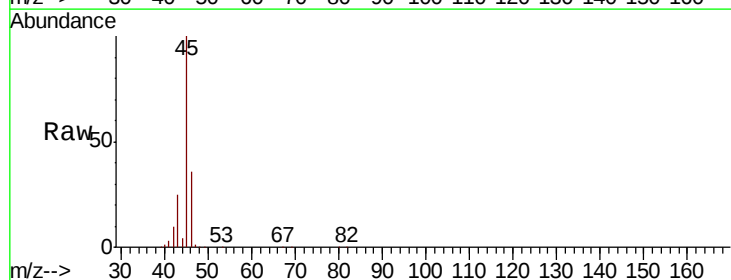
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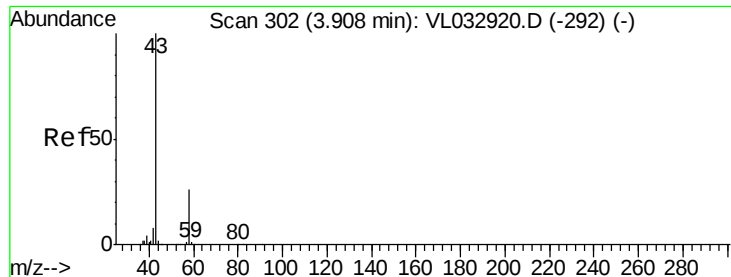
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#13  
 Ethanol  
 Concen: 68.593 ppbv  
 RT: 3.66 min Scan# 225  
 Delta R.T. 0.01 min  
 Lab File: VL032960.D  
 Acq: 11 Dec 2018 18:41

Tgt Ion: 45 Resp: 924619  
 Ion Ratio Lower Upper  
 45 100  
 46 37.3 13.8 55.4





#15

Acetone

Concen: 132.686 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.01 min

Lab File: VL032960.D

Acq: 11 Dec 2018 18:41

Instrument :

MSVOA\_L

ClientSampleId :

A55G4

Tot Ion: 43 Resp:14889378

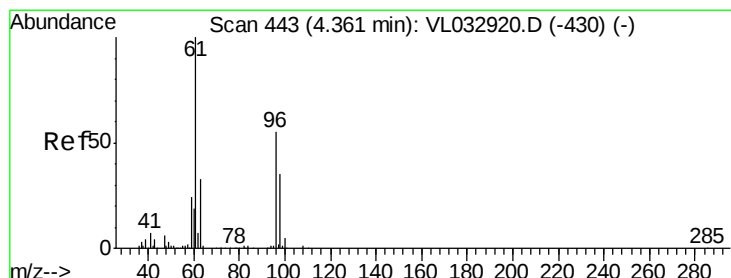
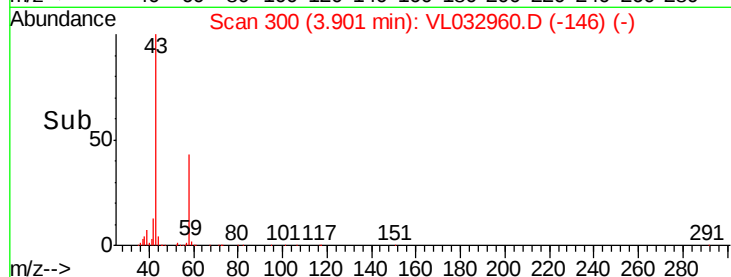
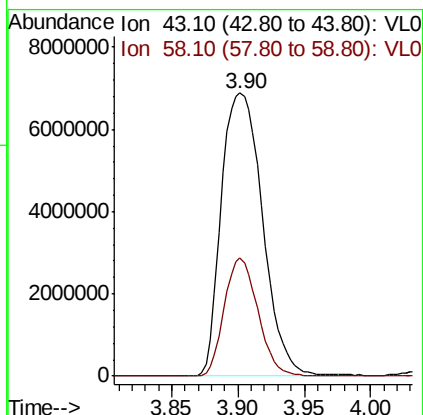
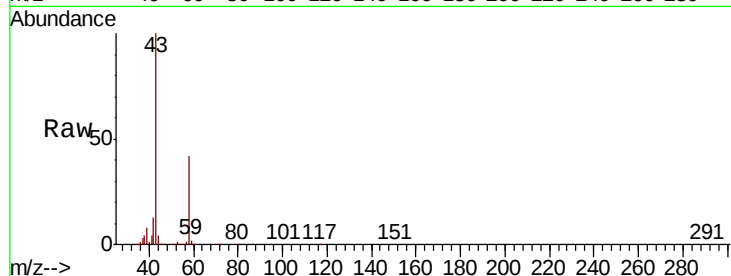
Ion Ratio Lower Upper

43 100

58 34.2 20.6 30.8#

Manual Integrations  
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#17

tert-Butyl alcohol

Concen: 7.297 ppbv

RT: 4.37 min Scan# 447

Delta R.T. 0.01 min

Lab File: VL032960.D

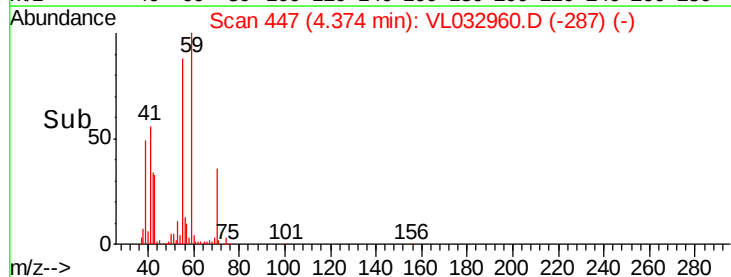
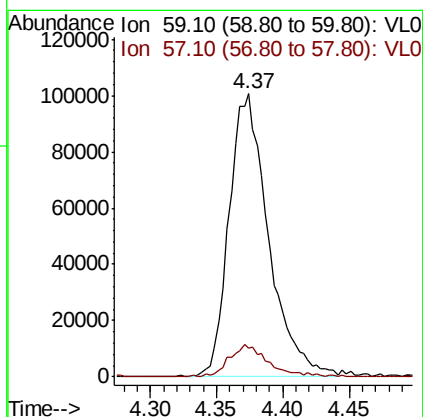
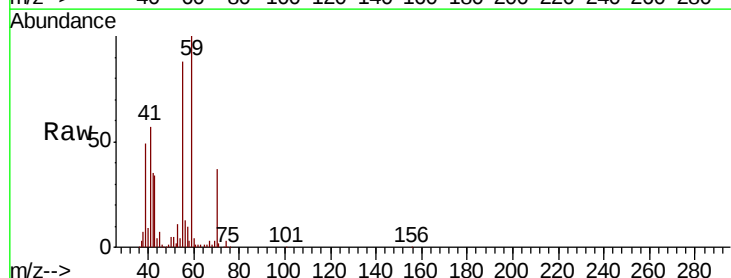
Acq: 11 Dec 2018 18:41

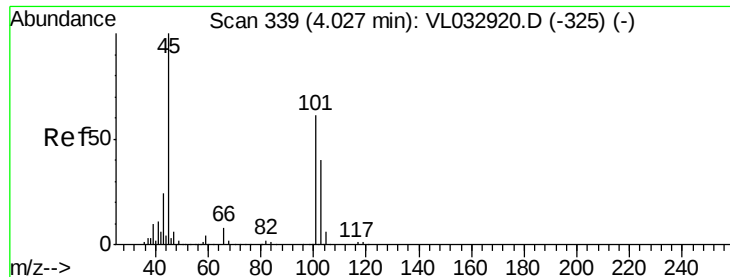
Tgt Ion: 59 Resp: 208473

Ion Ratio Lower Upper

59 100

57 11.5 0.6 1.0#





#19

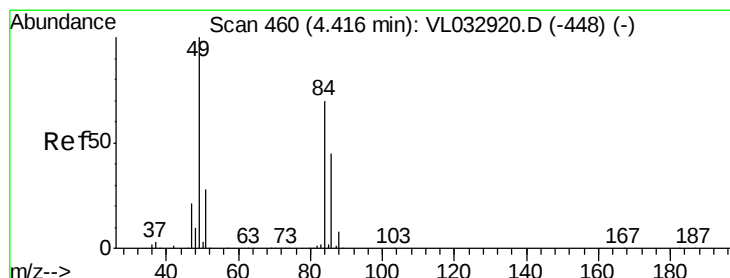
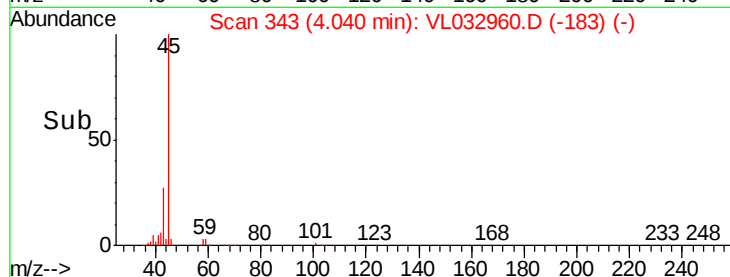
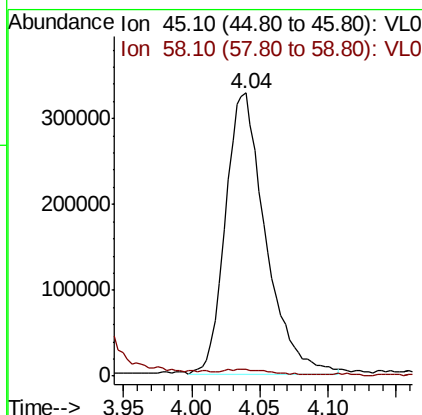
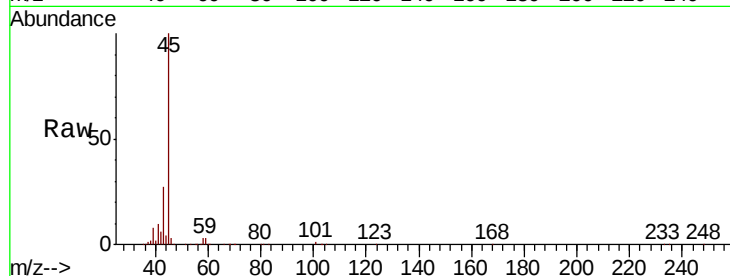
Isopropyl Alcohol  
 Concen: 9.463 ppbv  
 RT: 4.04 min Scan# 343  
 Delta R.T. 0.01 min  
 Lab File: VL032960.D  
 Acq: 11 Dec 2018 18:41

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 A55G4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 58      | 0.0   | 1.4   | 2.2#  |

Manual Integrations  
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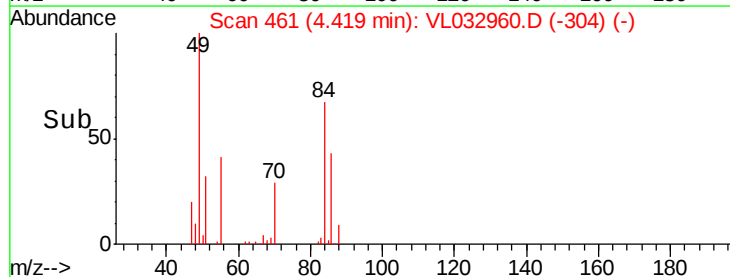
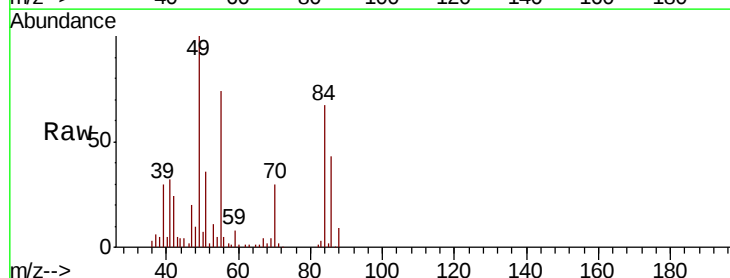
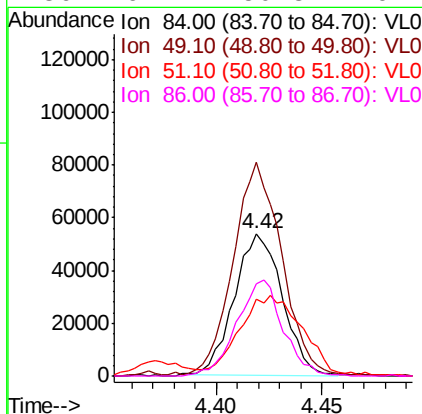
MMDadoda  
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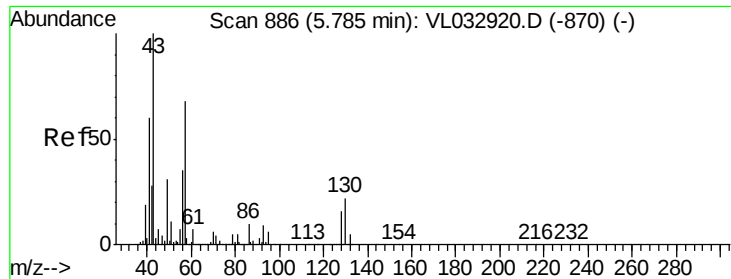


#20

Methylene Chloride  
 Concen: 1.553 ppbv  
 RT: 4.42 min Scan# 461  
 Delta R.T. 0.00 min  
 Lab File: VL032960.D  
 Acq: 11 Dec 2018 18:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 148.9 | 113.8 | 170.8 |
| 51      | 51.2  | 31.8  | 47.8# |
| 86      | 64.1  | 50.8  | 76.2  |





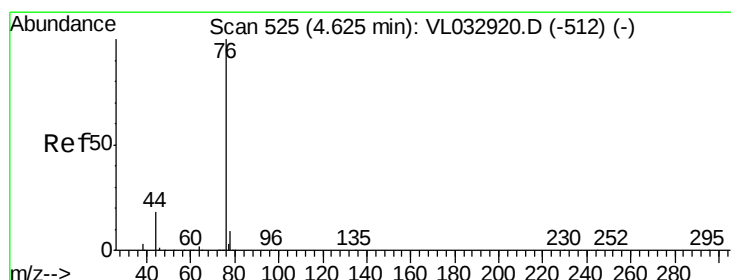
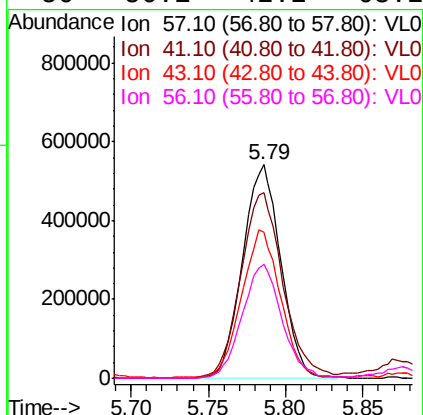
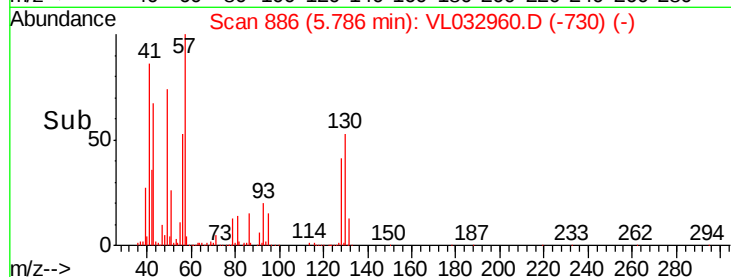
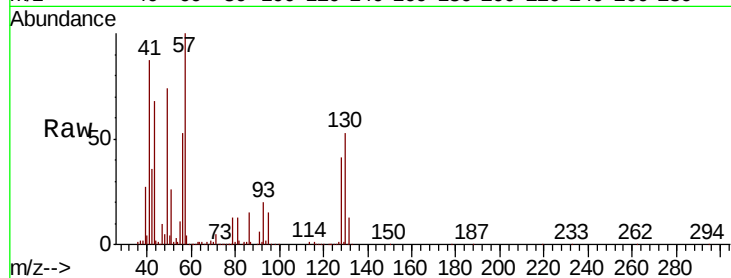
#26  
Hexane  
Concen: 7.572 ppbv  
RT: 5.79 min Scan# 886  
Delta R.T. 0.00 min  
Lab File: VL032960.D  
Acq: 11 Dec 2018 18:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
A55G4

| Tot Ion | 57    | Resp  | 926692 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 57      | 100   |       |        |
| 41      | 96.6  | 72.2  | 108.2  |
| 43      | 70.9  | 171.9 | 257.9# |
| 56      | 56.1  | 42.2  | 63.2   |

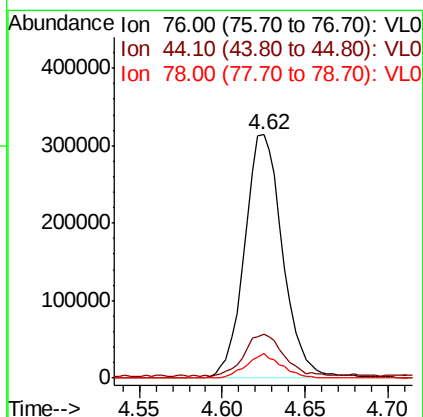
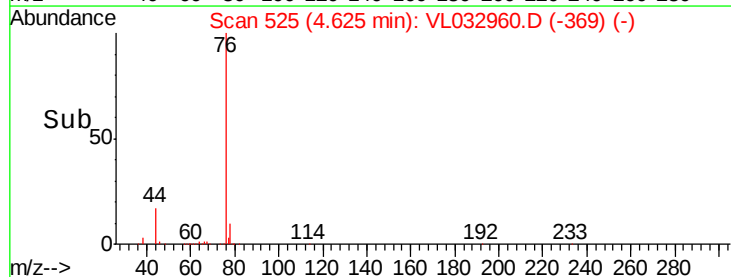
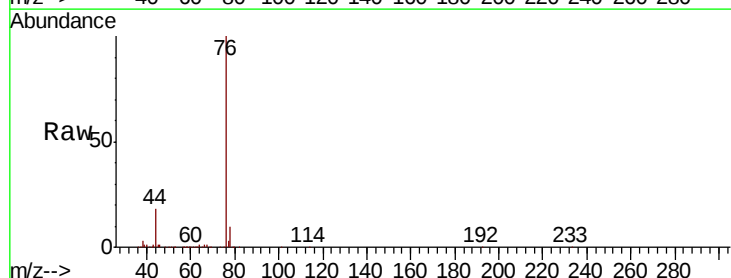
Manual Integrations  
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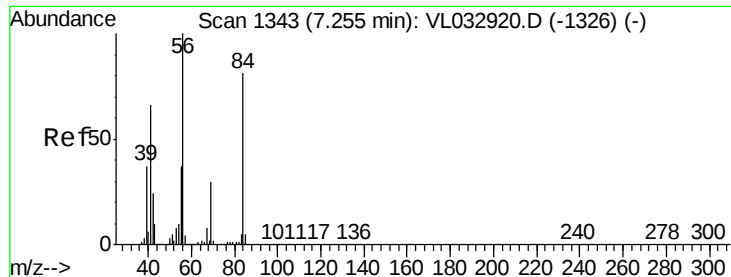
MMDadoda  
12/13/2018 7:58:41 AM



#27  
Carbon Disulfide  
Concen: 3.269 ppbv  
RT: 4.62 min Scan# 525  
Delta R.T. 0.00 min  
Lab File: VL032960.D  
Acq: 11 Dec 2018 18:41

| Tgt Ion | 76    | Resp  | 500167 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 76      | 100   |       |        |
| 44      | 19.5  | 14.7  | 22.1   |
| 78      | 9.3   | 7.4   | 11.2   |





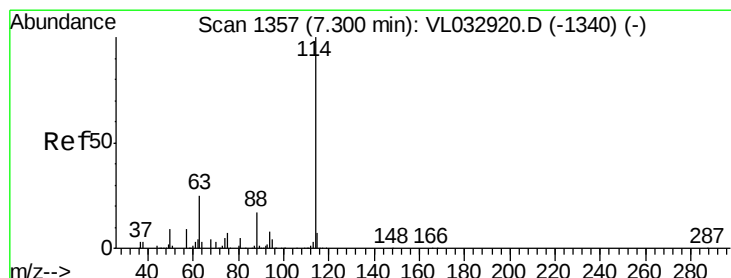
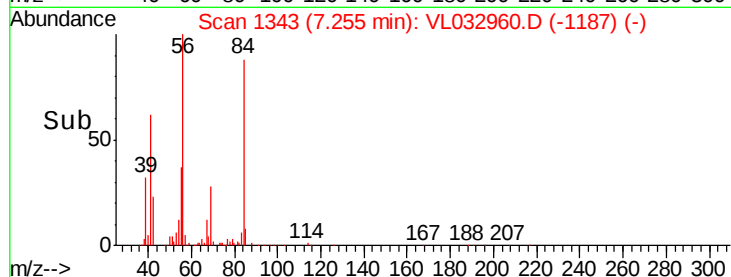
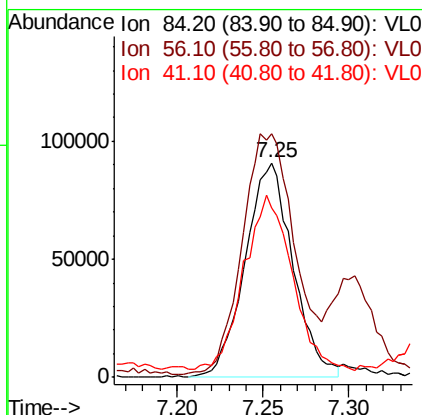
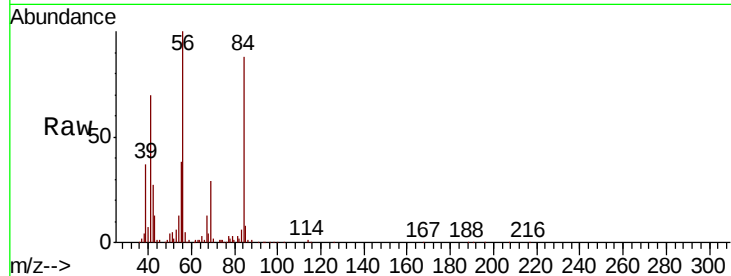
#30  
Cyclohexane  
Concen: 1.720 ppbv  
RT: 7.25 min Scan# 1343  
Delta R.T. 0.00 min  
Lab File: VL032960.D  
Acq: 11 Dec 2018 18:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
A55G4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 56      | 122.0 | 102.5 | 153.7 |
| 41      | 84.5  | 64.1  | 96.1  |

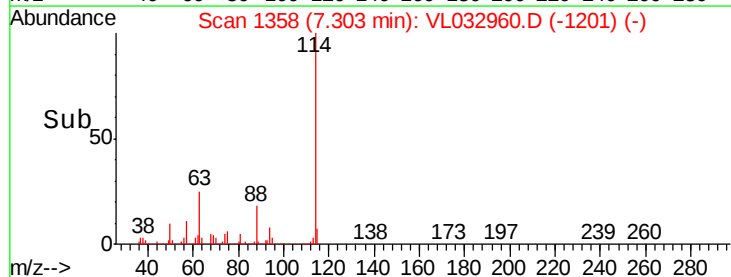
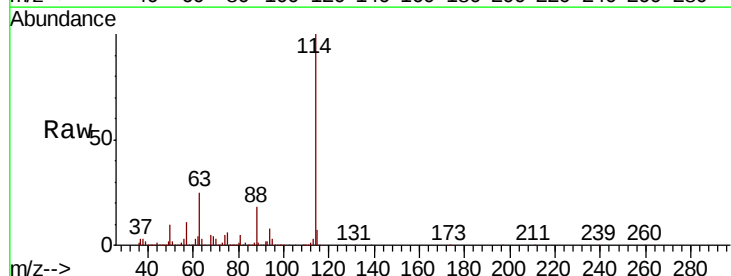
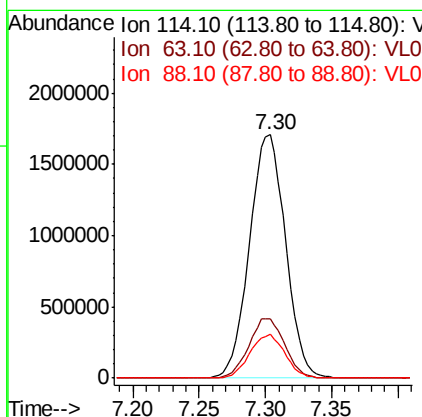
Manual Integrations  
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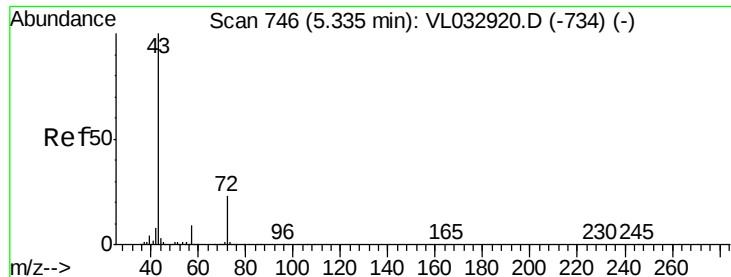
MMDadoda  
12/13/2018 7:58:41 AM



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.30 min Scan# 1358  
Delta R.T. 0.00 min  
Lab File: VL032960.D  
Acq: 11 Dec 2018 18:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 24.7  | 20.1  | 30.1  |
| 88      | 17.7  | 14.2  | 21.4  |





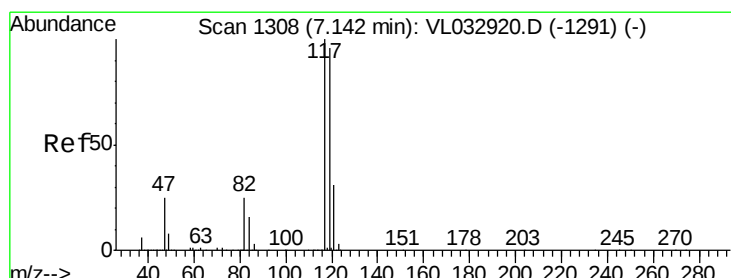
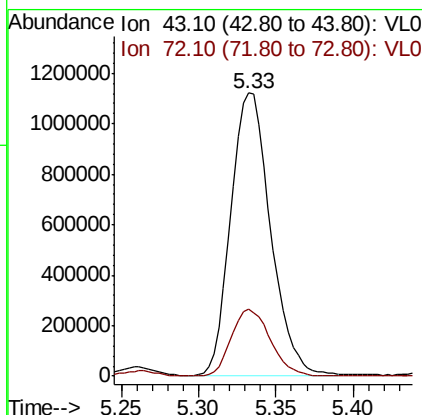
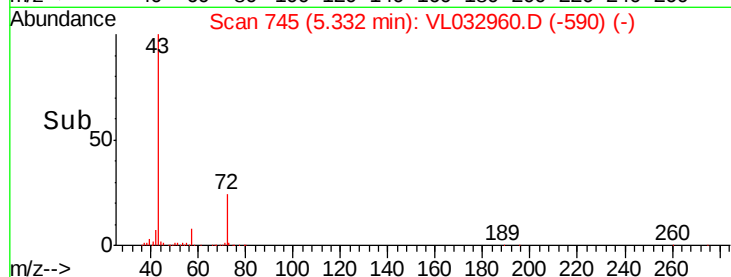
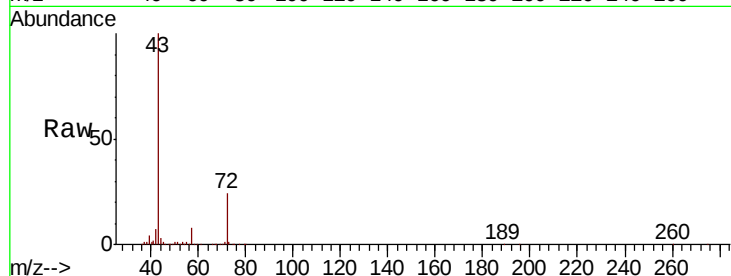
#34  
2-Butanone  
Concen: 14.110 ppbv  
RT: 5.33 min Scan# 745  
Delta R.T. -0.00 min  
Lab File: VL032960.D  
Acq: 11 Dec 2018 18:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
A55G4

Tot Ion: 43 Resp: 1991701  
Ion Ratio Lower Upper  
43 100  
72 23.3 18.8 28.2

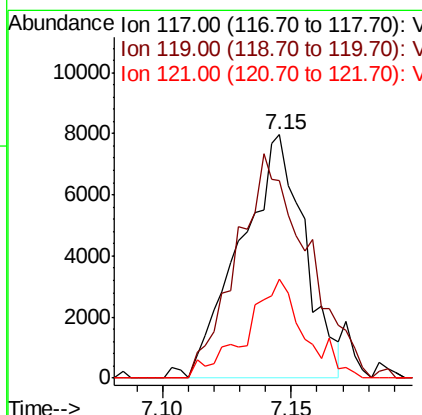
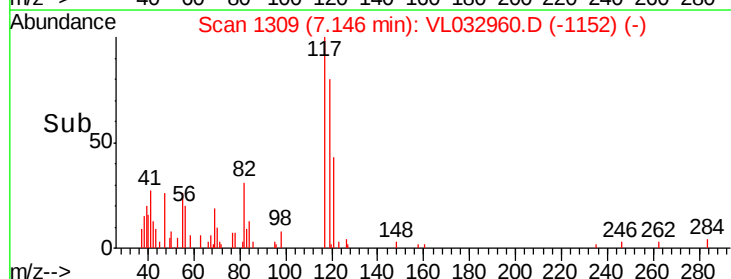
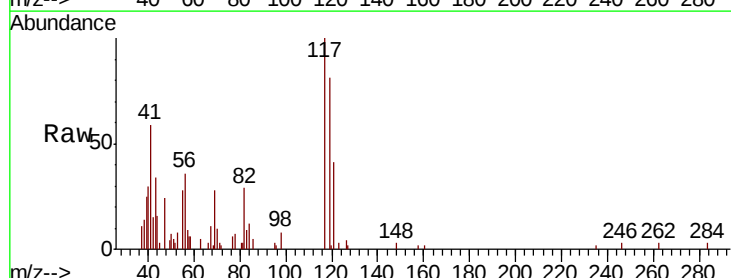
Manual Integrations  
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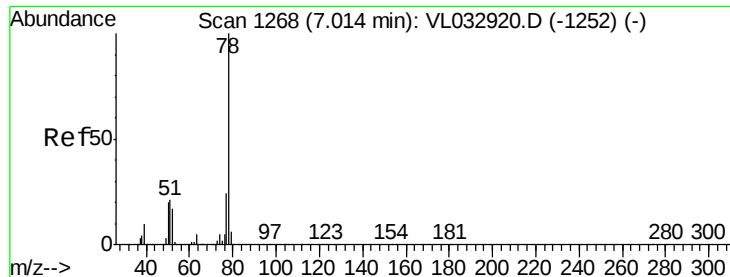
MMDadoda  
12/13/2018 7:58:41 AM



#35  
Carbon Tetrachloride  
Concen: 0.054 ppbv  
RT: 7.15 min Scan# 1309  
Delta R.T. 0.00 min  
Lab File: VL032960.D  
Acq: 11 Dec 2018 18:41

Tgt Ion: 117 Resp: 13717  
Ion Ratio Lower Upper  
117 100  
119 83.2 76.5 114.7  
121 40.6 24.5 36.7#





#36

Benzene

Concen: 6.045 ppbv

RT: 7.01 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VL032960.D

Acq: 11 Dec 2018 18:41

Instrument :

MSVOA\_L

ClientSampled :

A55G4

Tot Ion: 78 Resp: 1440913

Ion Ratio Lower Upper

78 100

77 22.8 18.9 28.3

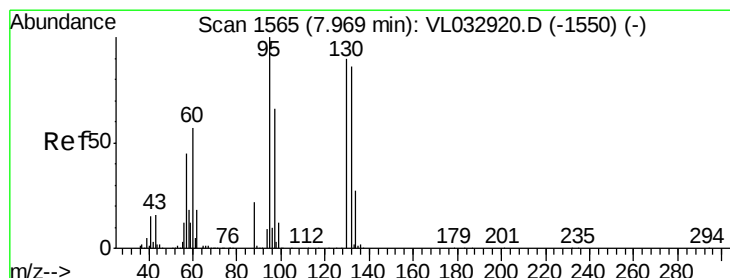
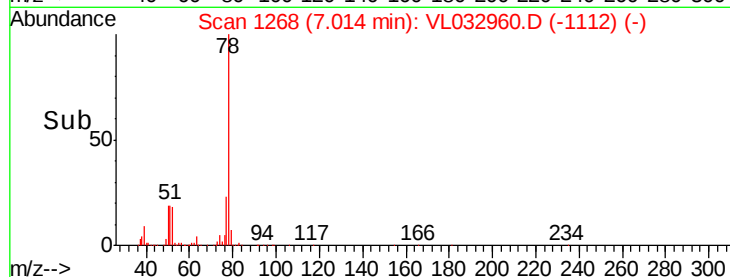
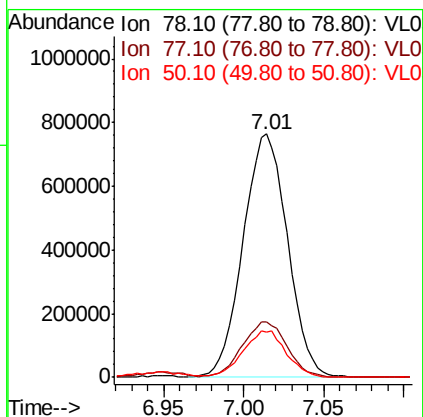
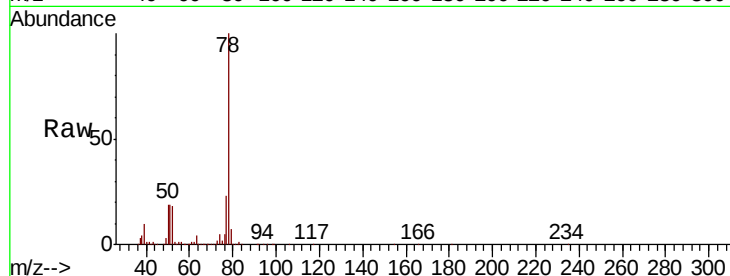
50 18.7 16.1 24.1

Manual Integrations

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#38

Trichloroethene

Concen: 0.151 ppbv m

RT: 7.97 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VL032960.D

Acq: 11 Dec 2018 18:41

Tgt Ion: 130 Resp: 14948

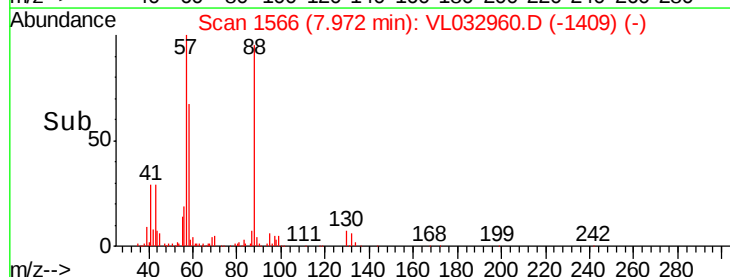
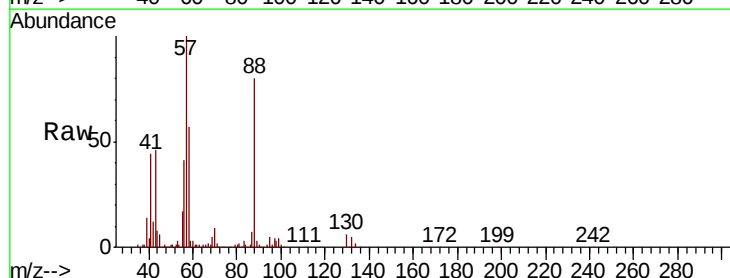
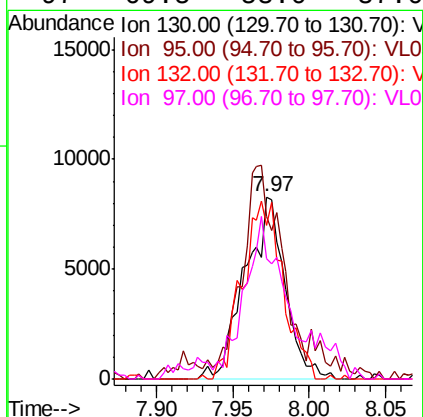
Ion Ratio Lower Upper

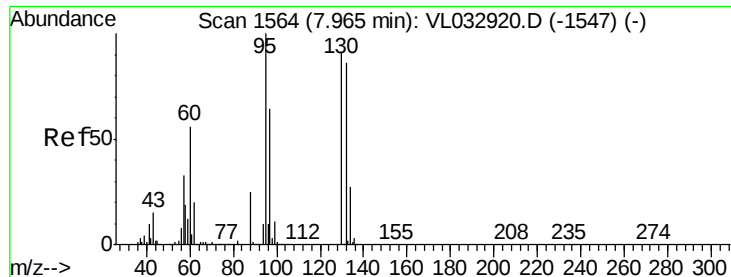
130 100

95 94.3 88.6 132.8

132 88.9 76.1 114.1

97 69.5 58.0 87.0





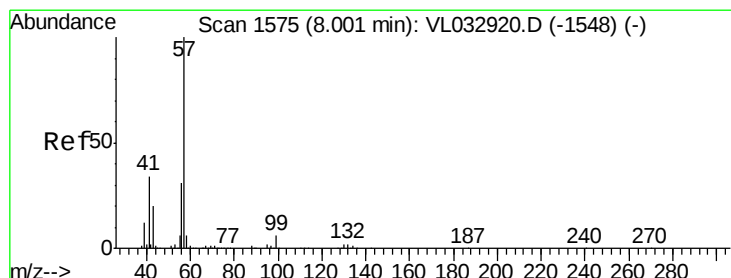
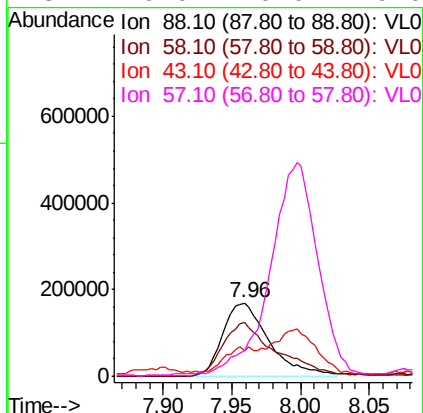
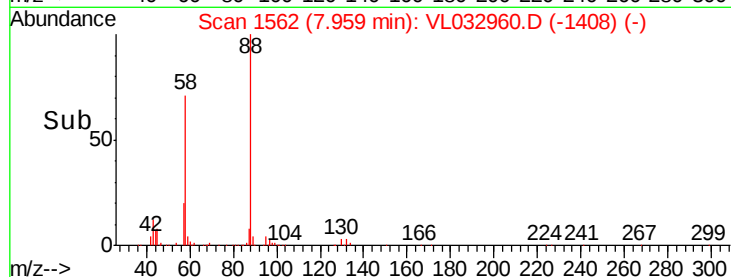
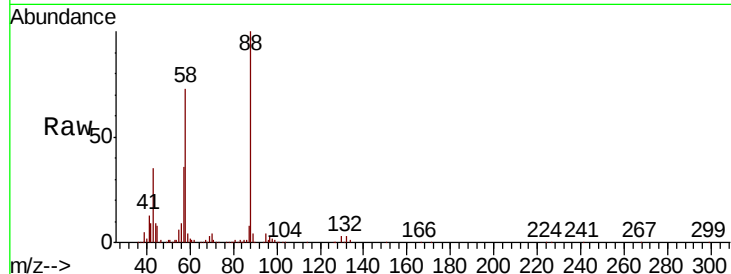
#40  
 1,4-Dioxane  
 Concen: 11.949 ppbv m  
 RT: 7.96 min Scan# 1562  
 Delta R.T. -0.01 min  
 Lab File: VL032960.D  
 Acq: 11 Dec 2018 18:41

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 A55G4

| Tot Ion | 88    | Resp  | 397847 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 88      | 100   |       |        |
| 58      | 0.0   | 107.4 | 161.2# |
| 43      | 0.0   | 0.0   | 0.0    |
| 57      | 0.0   | 0.0   | 0.0    |

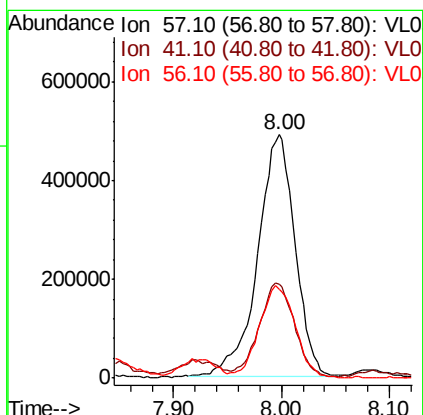
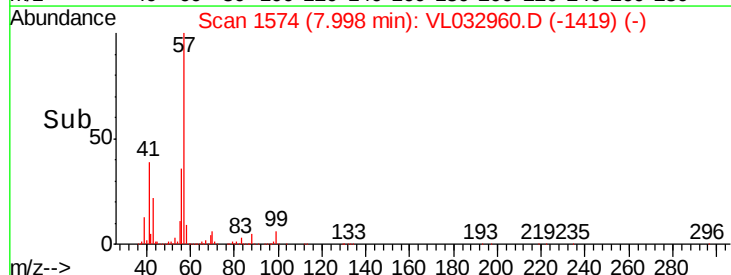
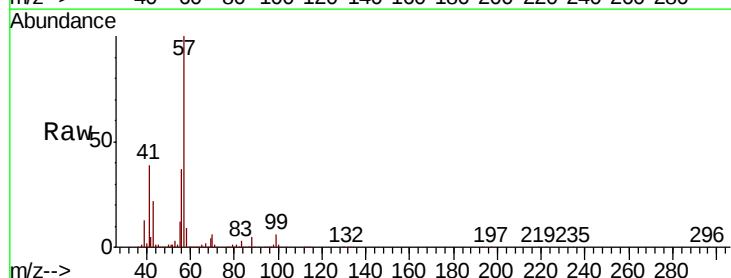
Manual Integrations  
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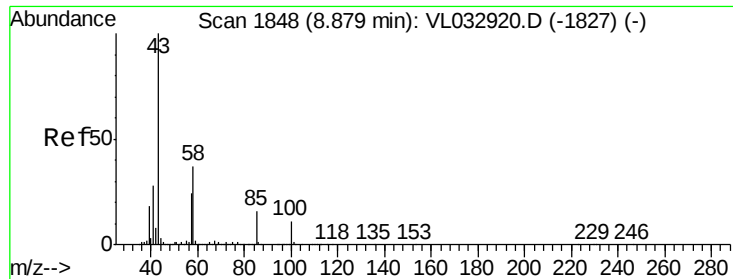
MMDadoda  
 12/13/2018 7:58:41 AM



#44  
 2,2,4-Trimethylpentane  
 Concen: 2.880 ppbv  
 RT: 8.00 min Scan# 1574  
 Delta R.T. -0.00 min  
 Lab File: VL032960.D  
 Acq: 11 Dec 2018 18:41

| Tgt Ion | 57    | Resp  | 1165380 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 57      | 100   |       |         |
| 41      | 38.2  | 27.0  | 40.4    |
| 56      | 36.9  | 24.6  | 37.0    |





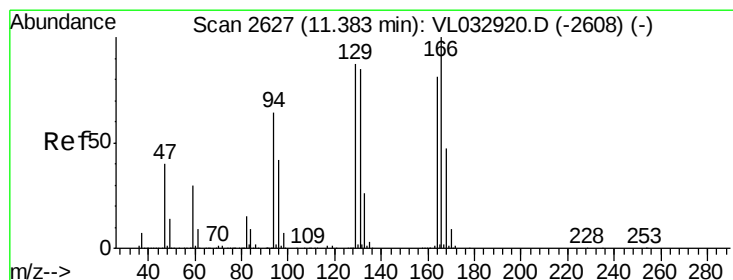
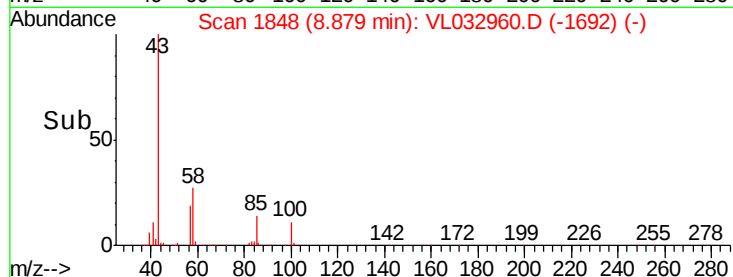
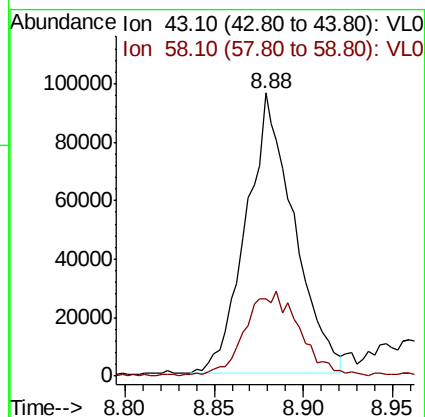
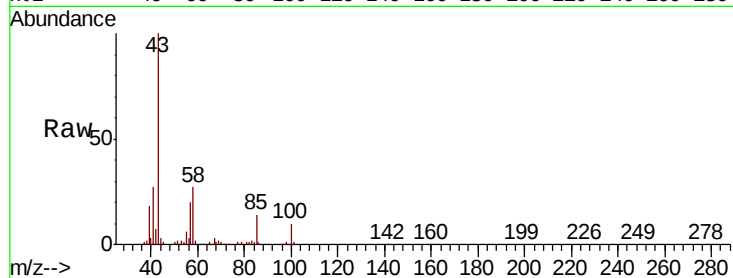
#50  
4-Methyl-2-Pentanone  
Concen: 0.793 ppbv  
RT: 8.88 min Scan# 1848  
Delta R.T. 0.00 min  
Lab File: VL032960.D  
Acq: 11 Dec 2018 18:41

Instrument :  
MSVOA\_L  
ClientSampled :  
A55G4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 34.6  | 29.0  | 43.4  |

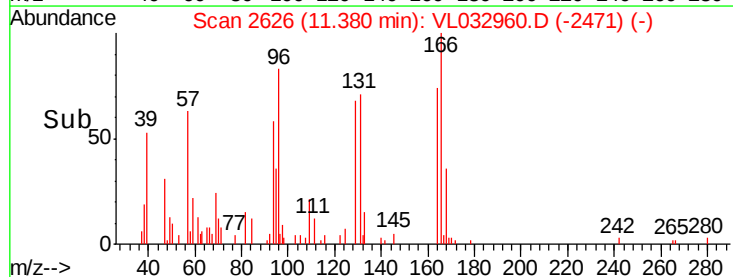
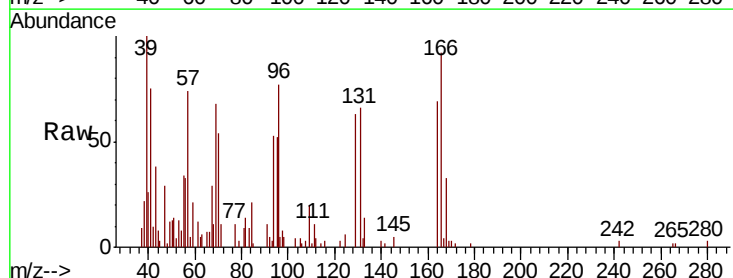
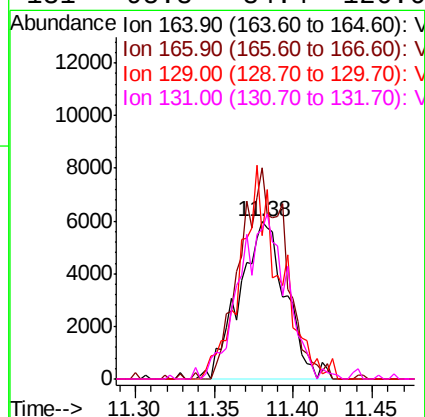
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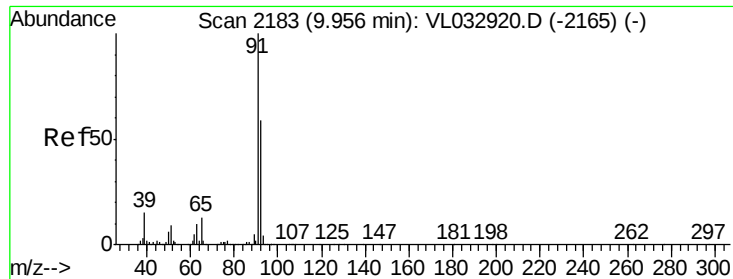
MMDadoda  
12/13/2018 7:58:41 AM



#52  
Tetrachloroethene  
Concen: 0.141 ppbv m  
RT: 11.38 min Scan# 2626  
Delta R.T. -0.00 min  
Lab File: VL032960.D  
Acq: 11 Dec 2018 18:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 166     | 134.5 | 98.8  | 148.2 |
| 129     | 91.6  | 85.5  | 128.3 |
| 131     | 95.8  | 84.4  | 126.6 |





#53

Toluene

Concen: 14.645 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. 0.00 min

Lab File: VL032960.D

Acq: 11 Dec 2018 18:41

Instrument :

MSVOA\_L

ClientSampleId :

A55G4

Tot Ion: 91 Resp: 3701967

Ion Ratio Lower Upper

91 100

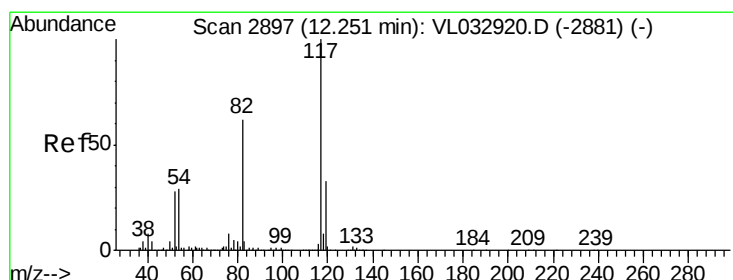
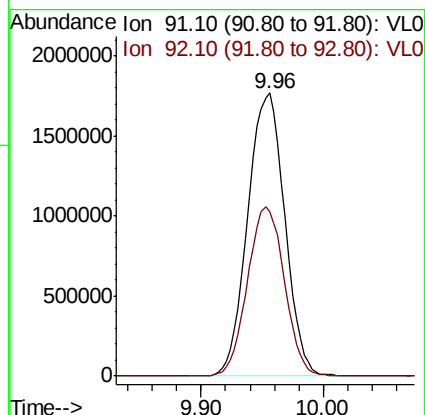
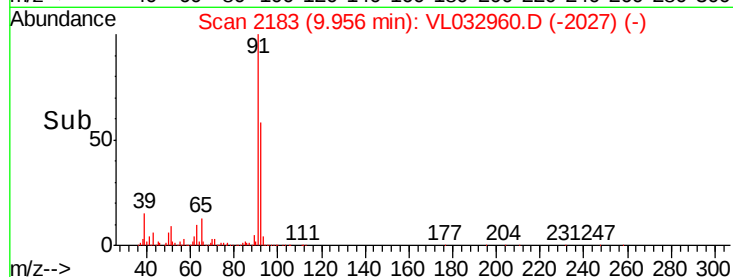
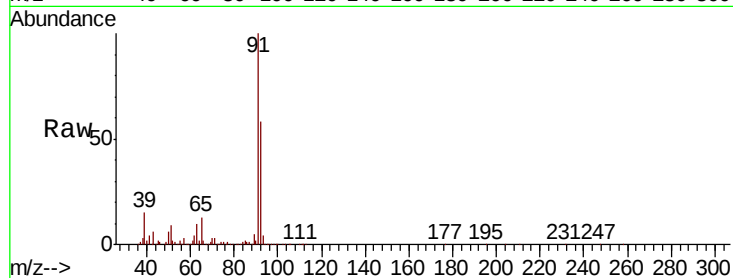
92 59.7 47.4 71.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL032960.D

Acq: 11 Dec 2018 18:41

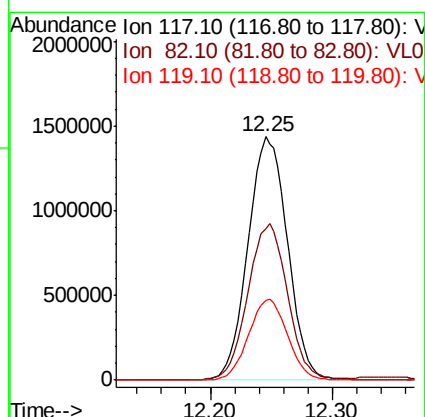
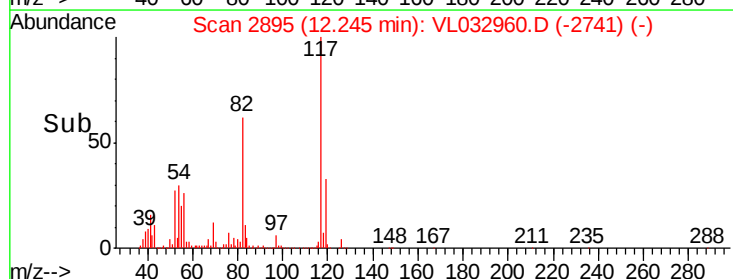
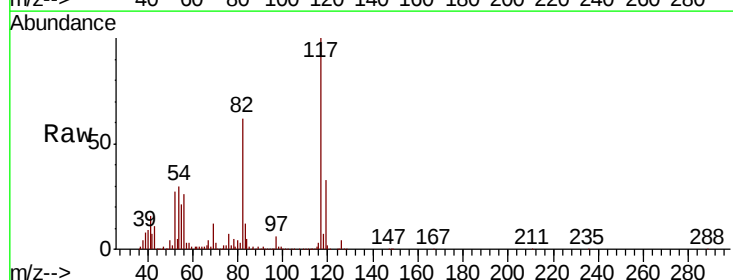
Tgt Ion: 117 Resp: 3214149

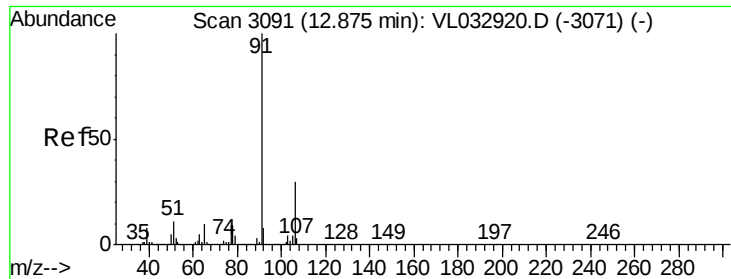
Ion Ratio Lower Upper

117 100

82 64.6 47.8 71.8

119 33.0 43.1 64.7#





#58

Ethyl Benzene

Concen: 1.741 ppbv

RT: 12.87 min Scan# 3090

Delta R.T. -0.00 min

Lab File: VL032960.D

Acq: 11 Dec 2018 18:41

Instrument :

MSVOA\_L

ClientSampleId :

A55G4

Tot Ion: 91 Resp: 597064

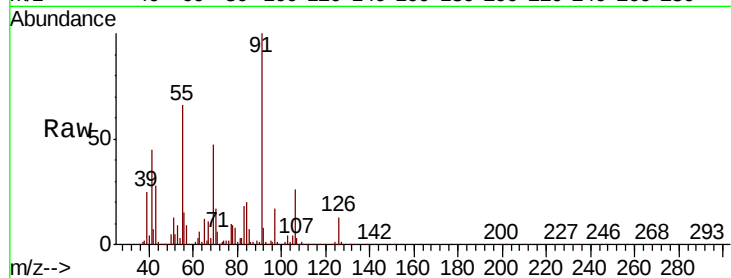
Ion Ratio Lower Upper

91 100

106 26.0 23.9 35.9

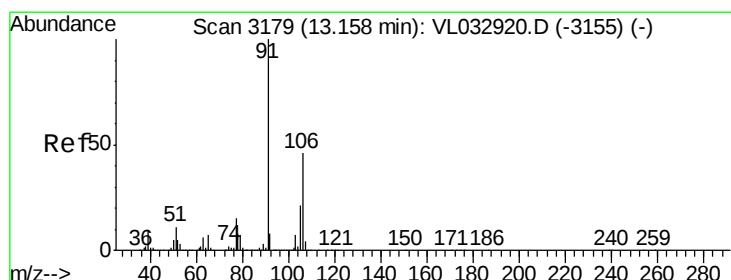
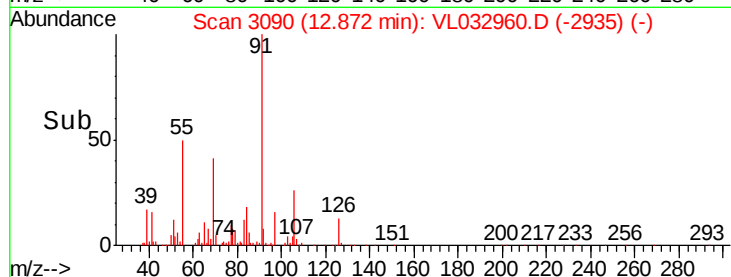
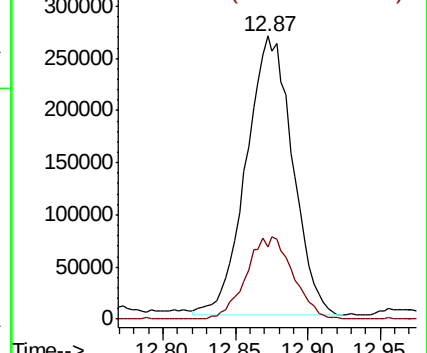
Manual Integrations  
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12/13/2018 7:58:41 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 3.542 ppbv

RT: 13.13 min Scan# 3170

Delta R.T. -0.03 min

Lab File: VL032960.D

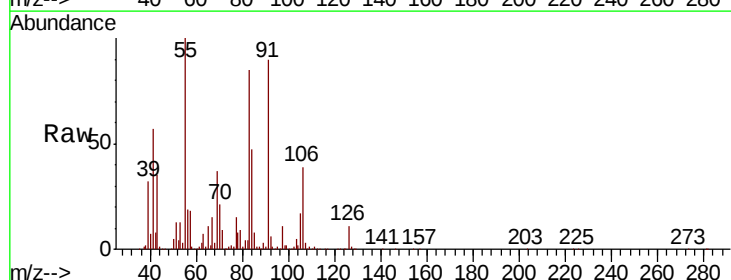
Acq: 11 Dec 2018 18:41

Tgt Ion: 91 Resp: 1101005

Ion Ratio Lower Upper

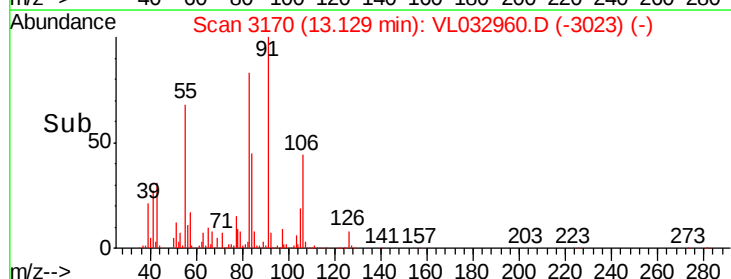
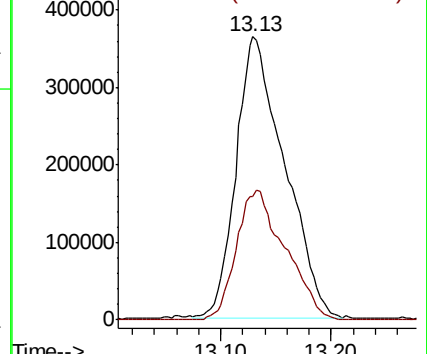
91 100

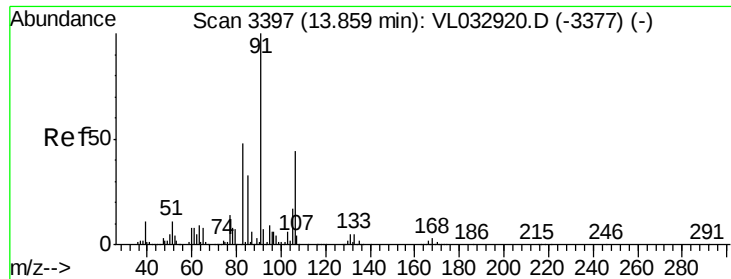
106 46.5 0.0 0.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





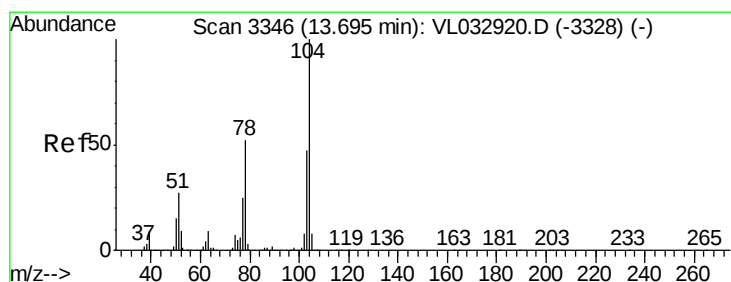
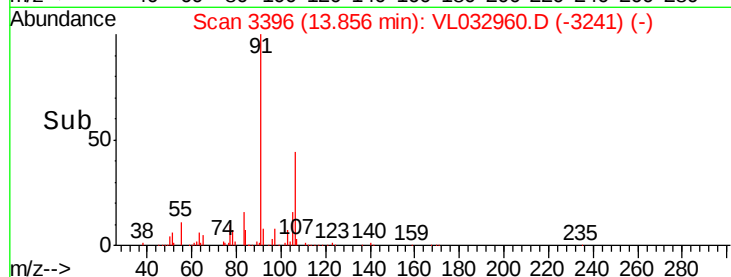
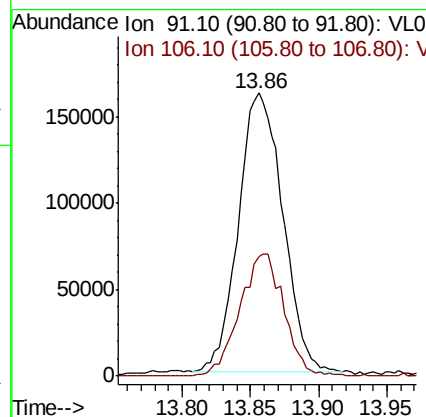
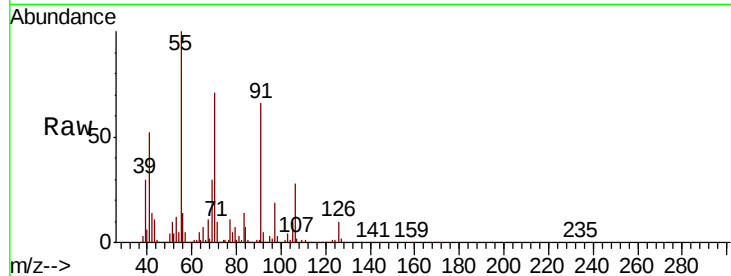
#60  
o-Xylene  
Concen: 1.161 ppbv  
RT: 13.86 min Scan# 3396  
Delta R.T. -0.00 min  
Lab File: VL032960.D  
Acq: 11 Dec 2018 18:41

Instrument :  
MSVOA\_L  
ClientSampled :  
A55G4

Tot Ion: 91 Resp: 364427  
Ion Ratio Lower Upper  
91 100  
106 43.8 21.9 65.8

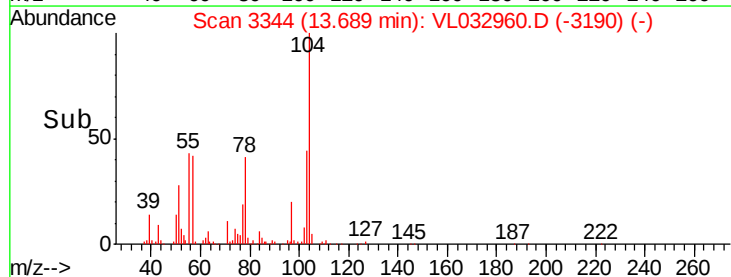
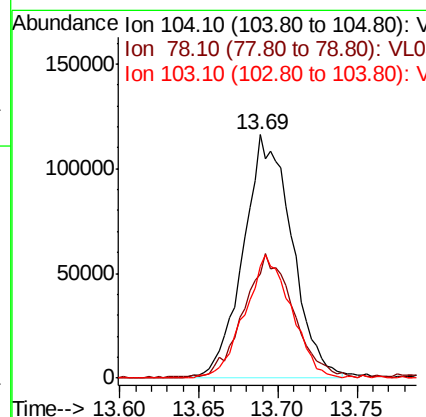
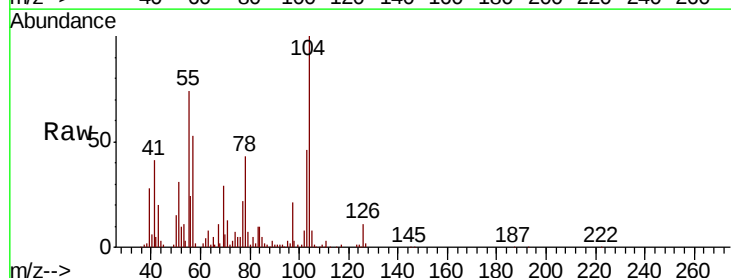
Manual Integrations  
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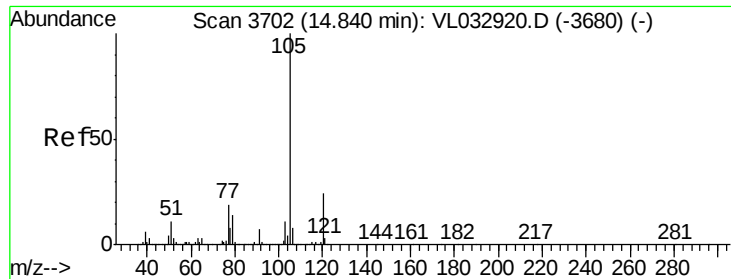
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12/13/2018 7:58:41 AM



#61  
Styrene  
Concen: 1.177 ppbv m  
RT: 13.69 min Scan# 3344  
Delta R.T. -0.01 min  
Lab File: VL032960.D  
Acq: 11 Dec 2018 18:41

Tgt Ion: 104 Resp: 245850  
Ion Ratio Lower Upper  
104 100  
78 53.1 42.0 63.0  
103 49.2 38.3 57.5





#62

Isopropylbenzene

Concen: 31.111 ppbv

RT: 14.84 min Scan# 3702

Delta R.T. 0.00 min

Lab File: VL032960.D

Acq: 11 Dec 2018 18:41

Instrument :

MSVOA\_L

ClientSampleId :

A55G4

Tot Ion:105 Resp:13626128

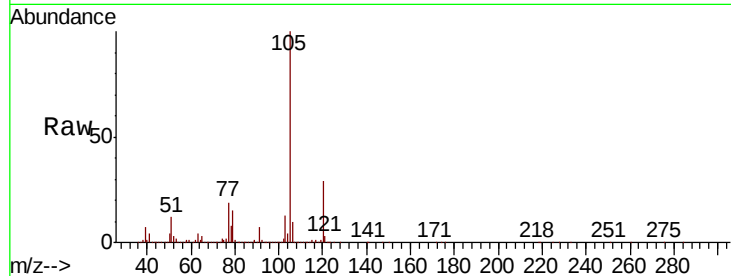
Ion Ratio Lower Upper

105 100

120 27.5 20.3 30.5

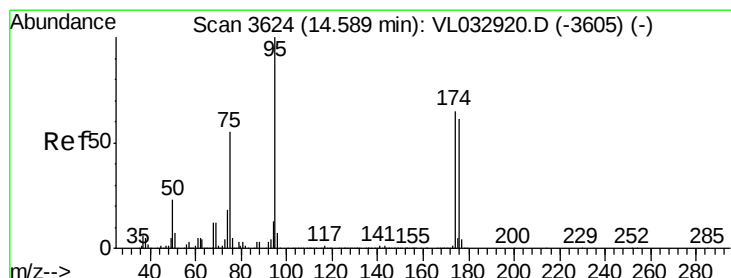
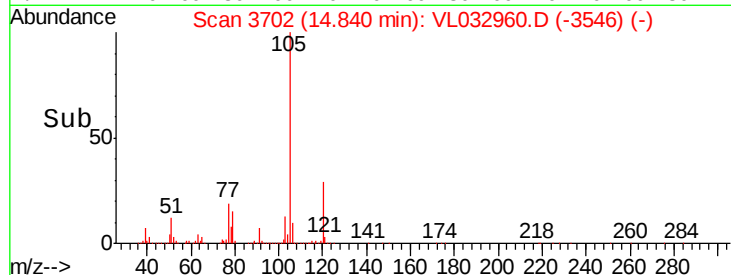
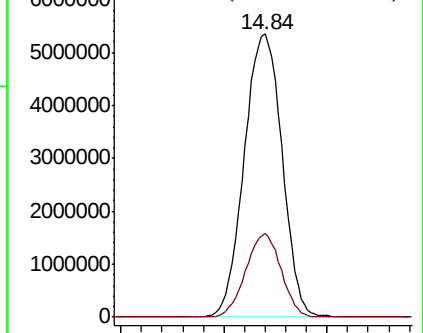
Manual Integrations  
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.470 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. -0.00 min

Lab File: VL032960.D

Acq: 11 Dec 2018 18:41

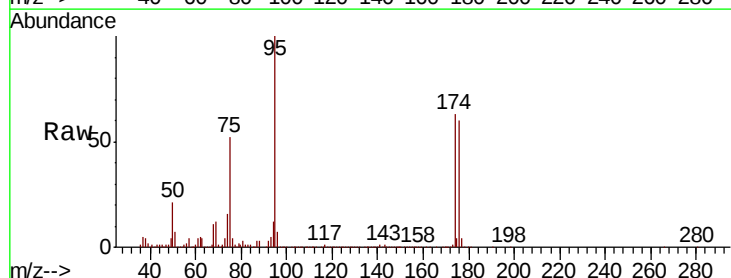
Tgt Ion: 95 Resp: 2486187

Ion Ratio Lower Upper

95 100

174 64.8 51.4 77.0

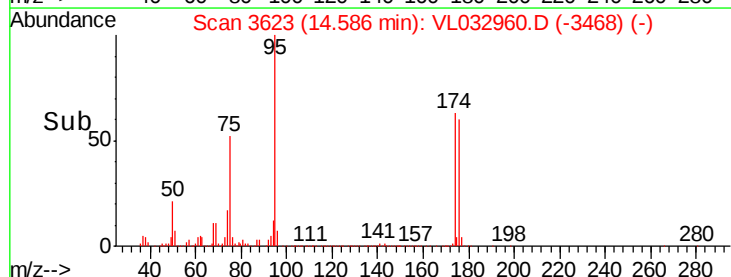
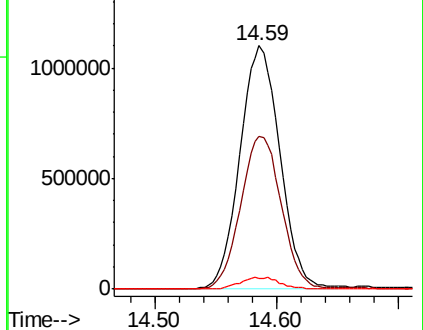
175 4.8 3.8 5.6

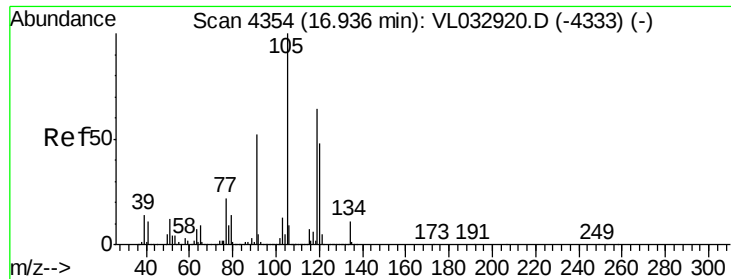


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.335 ppbv  
 RT: 16.94 min Scan# 4354  
 Delta R.T. 0.00 min  
 Lab File: VL032960.D  
 Acq: 11 Dec 2018 18:41

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 A55G4

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 105     | 100  |       |      |       |       |
| 120     | 46.8 | 38.6  | 58.0 |       |       |
| 91      | 12.1 | 41.7  | 62.5 |       |       |
| 77      | 11.4 | 17.4  | 26.2 |       |       |

Manual Integrations  
 APPROVED

MMDadoda  
 12/13/2018 7:58:41 AM

