

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081219\  
 Data File : VL034113.D  
 Acq On : 12 Aug 2019 22:57  
 Operator : SY/AP  
 Sample : K4296-02  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SRS-0807-VI2

Manual Integrations  
 APPROVED

MMDadoda  
 8/16/2019 8:54:36 AM

Quant Time: Aug 13 13:40:44 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080519AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Mon Aug 0  
 QLast Update : Mon Aug 05 17:09:48 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.72  | 49   | 1040235  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.25  | 114  | 1976624  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.18 | 117  | 1986086  | 10.00 | ppbv  | 0.00     |

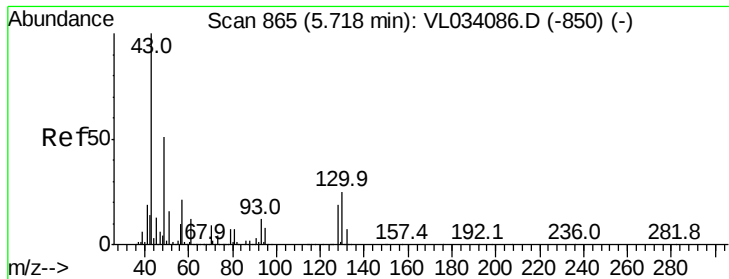
System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.52  | 95    | 1688150  | 10.48    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 104.80% |

| Target Compounds           | R.T.  | QIon | Response  | Conc    | Units  | Ovalue |
|----------------------------|-------|------|-----------|---------|--------|--------|
| 2) Dichlorodifluoromethane | 3.05  | 85   | 43656     | 0.341   | ppbv # | 85     |
| 3) Chlorodifluoromethane   | 2.99  | 51   | 48958m    | 0.407   | ppbv   |        |
| 4) Chloromethane           | 3.14  | 50   | 39523     | 0.510   | ppbv   | 90     |
| 9) Propene                 | 3.02  | 41   | 29300m    | 0.413   | ppbv   |        |
| 10) Heptane                | 8.19  | 43   | 48286m    | 0.263   | ppbv   |        |
| 11) Trichlorofluoromethane | 3.97  | 101  | 33557     | 0.221   | ppbv   | 94     |
| 13) Ethanol                | 3.66  | 45   | 15936685  | 797.411 | ppbv   | 83     |
| 15) Acetone                | 3.86  | 43   | 9245445   | 62.197  | ppbv # | 45     |
| 19) Isopropyl Alcohol      | 4.04  | 45   | 11853975m | 102.417 | ppbv   |        |
| 20) Methylene Chloride     | 4.37  | 84   | 49366     | 1.107   | ppbv   | 92     |
| 26) Hexane                 | 5.73  | 57   | 97882     | 0.790   | ppbv # | 1      |
| 34) 2-Butanone             | 5.29  | 43   | 95967     | 0.522   | ppbv   | 99     |
| 35) Carbon Tetrachloride   | 7.08  | 117  | 9096m     | 0.060   | ppbv   |        |
| 36) Benzene                | 6.96  | 78   | 41775     | 0.186   | ppbv   | 96     |
| 41) Tetrahydrofuran        | 6.11  | 42   | 21757m    | 0.192   | ppbv   |        |
| 43) Methyl Methacrylate    | 8.08  | 69   | 1869726   | 20.289  | ppbv   | 96     |
| 52) Tetrachloroethene      | 11.30 | 164  | 4969m     | 0.057   | ppbv   |        |
| 53) Toluene                | 9.89  | 91   | 2274696   | 8.774   | ppbv   | 98     |
| 58) Ethyl Benzene          | 12.80 | 91   | 38893m    | 0.116   | ppbv   |        |
| 59) m/p-Xylene             | 13.06 | 91   | 89154m    | 0.333   | ppbv   |        |
| 60) o-Xylene               | 13.79 | 91   | 35996     | 0.134   | ppbv   | 97     |
| 61) Styrene                | 13.62 | 104  | 25591m    | 0.120   | ppbv   |        |
| 74) 1,2,4-Trimethylbenzene | 16.86 | 105  | 43642     | 0.138   | ppbv # | 72     |
| 79) Naphthalene            | 22.34 | 128  | 266958    | 0.815   | ppbv # | 97     |
| 80) Naphthalene,2-methyl-  | 25.06 | 142  | 10168     | 0.099   | ppbv   | 99     |

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 866

Delta R.T. 0.00 min

Lab File: VL034113.D

Acq: 12 Aug 2019 22:57

Instrument :

MSVOA\_L

ClientSampleId :

SRS-0807-VI2

Tot Ion: 49 Resp: 1040235

Ion Ratio Lower Upper

49 100

128 37.5 19.5 58.5

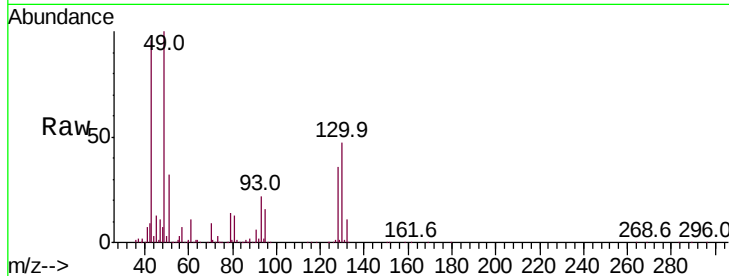
130 47.8 25.4 76.0

Manual Integrations

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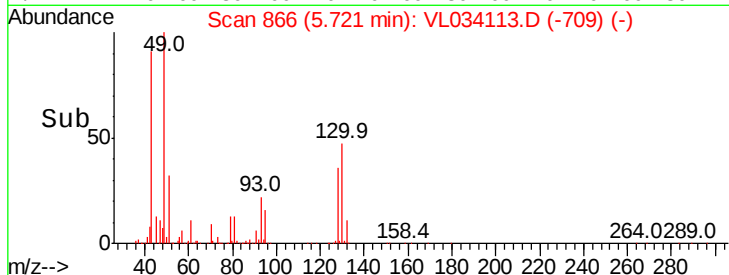


Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



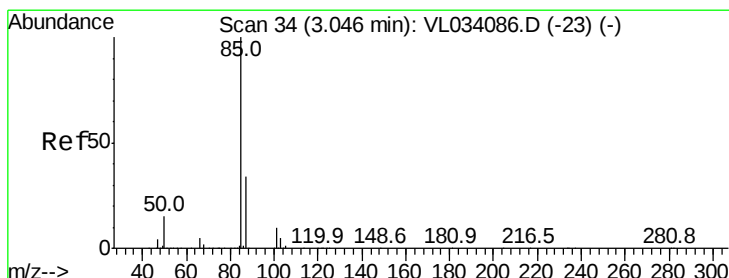
Abundance

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

Time-->



#2

Dichlorodifluoromethane

Concen: 0.341 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.00 min

Lab File: VL034113.D

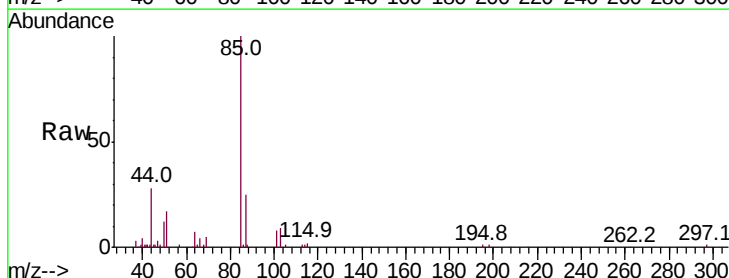
Acq: 12 Aug 2019 22:57

Tgt Ion: 85 Resp: 43656

Ion Ratio Lower Upper

85 100

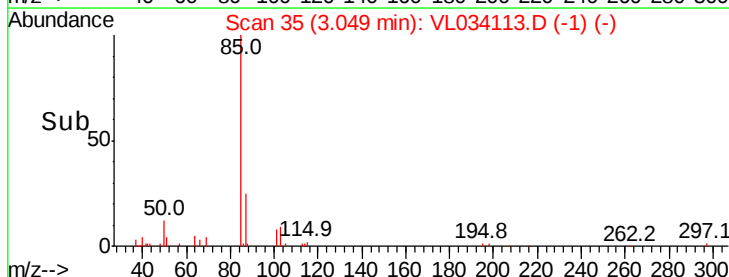
87 25.2 27.1 40.7#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->

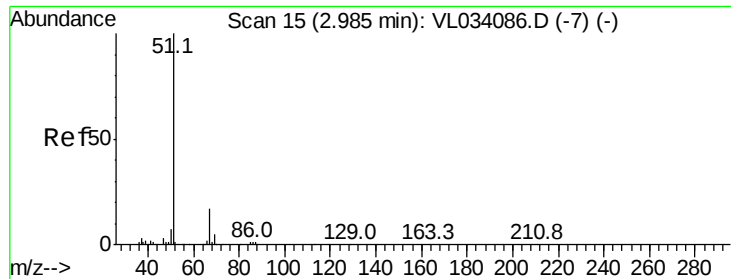


Abundance

Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->



#3

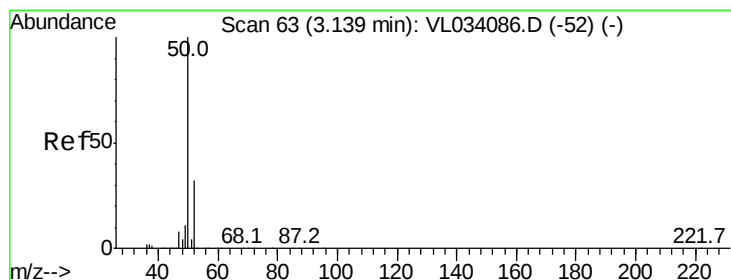
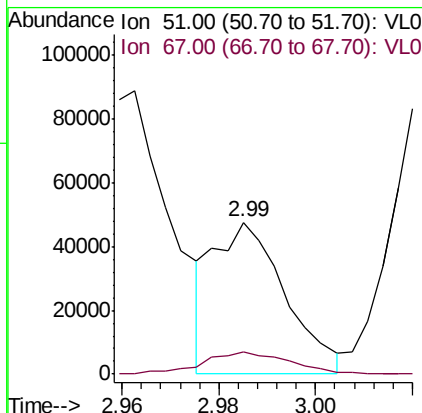
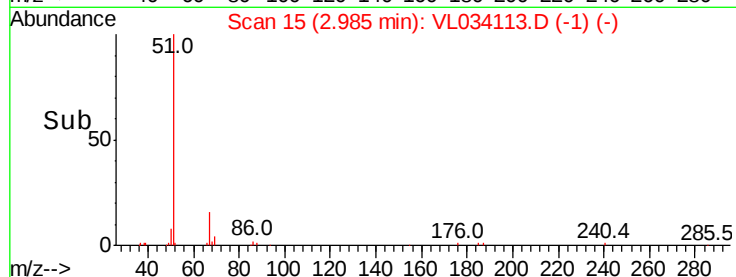
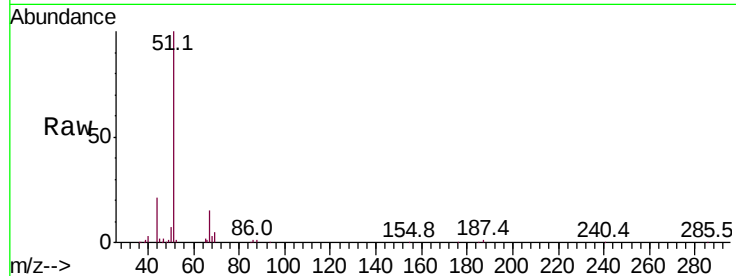
Chlorodifluoromethane  
 Concen: 0.407 ppbv  
 RT: 2.99 min Scan# 15  
 Delta R.T. 0.00 min  
 Lab File: VL034113.D  
 Acq: 12 Aug 2019 22:57

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SRS-0807-VI2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 51      | 100   |       |       |
| 67      | 0.8   | 13.3  | 19.9# |

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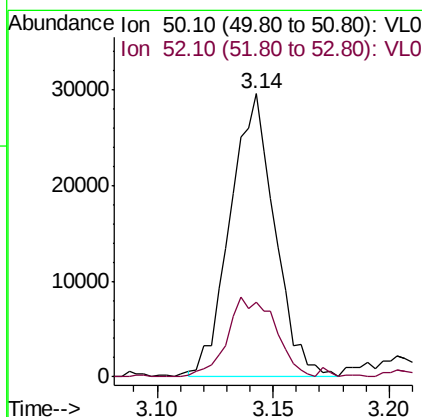
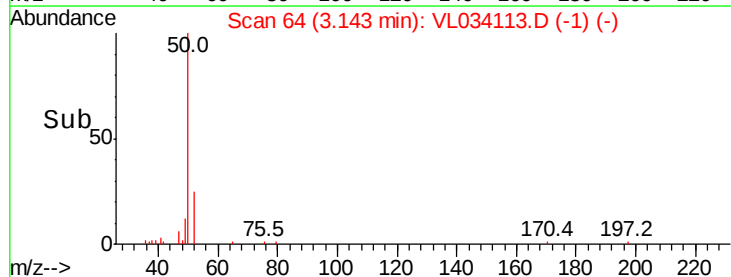
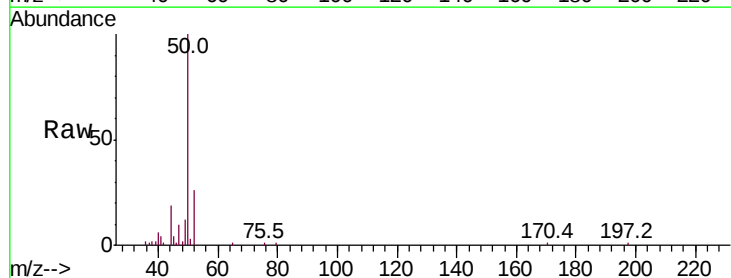
MMDadoda  
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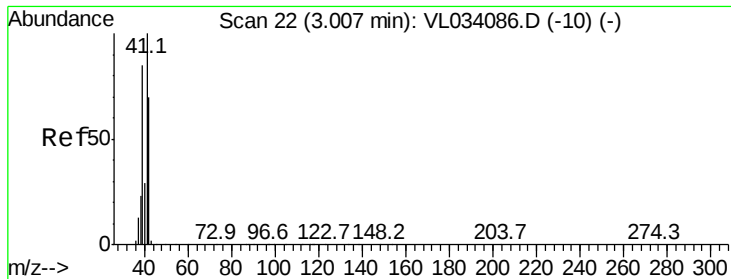


#4

Chloromethane  
 Concen: 0.510 ppbv  
 RT: 3.14 min Scan# 64  
 Delta R.T. 0.00 min  
 Lab File: VL034113.D  
 Acq: 12 Aug 2019 22:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 50      | 100   |       |       |
| 52      | 26.3  | 25.7  | 38.5  |





#9

Propene

Concen: 0.413 ppbv m

RT: 3.02 min Scan# 25

Delta R.T. 0.01 min

Lab File: VL034113.D

Acq: 12 Aug 2019 22:57

Instrument :

MSVOA\_L

ClientSampleId :

SRS-0807-VI2

Tot Ion: 41 Resp: 29300

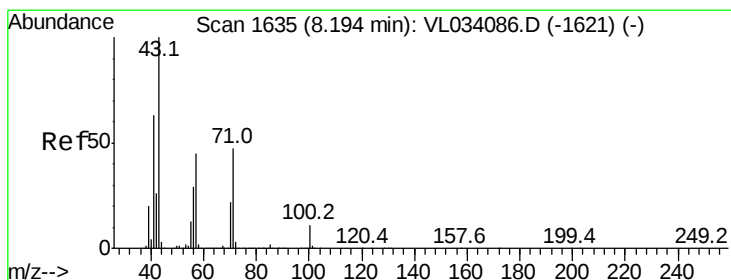
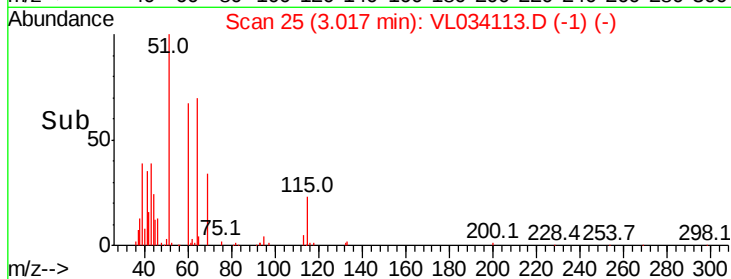
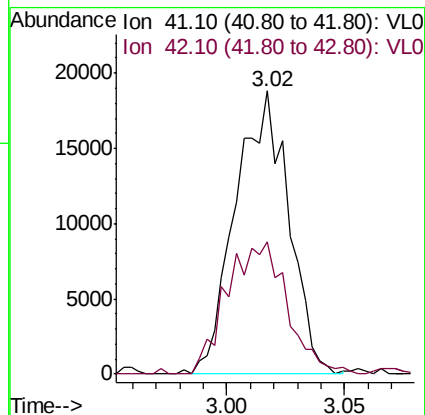
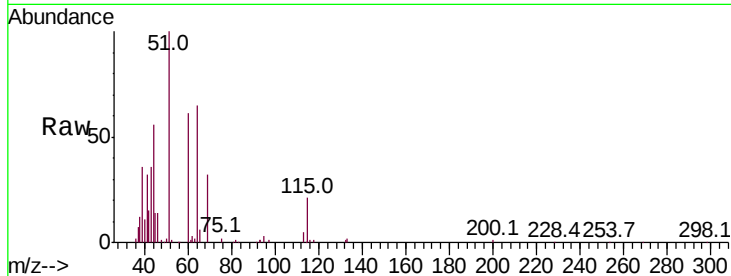
Ion Ratio Lower Upper

41 100

42 66.3 55.8 83.6

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#10

Heptane

Concen: 0.263 ppbv m

RT: 8.19 min Scan# 1633

Delta R.T. -0.01 min

Lab File: VL034113.D

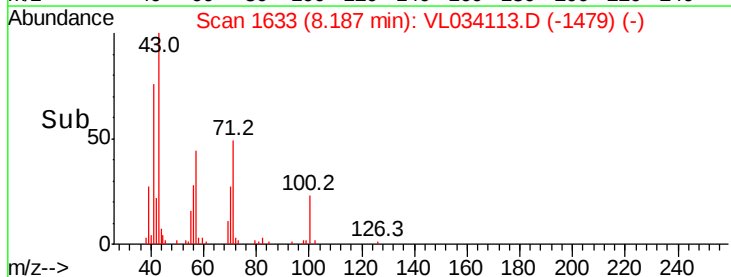
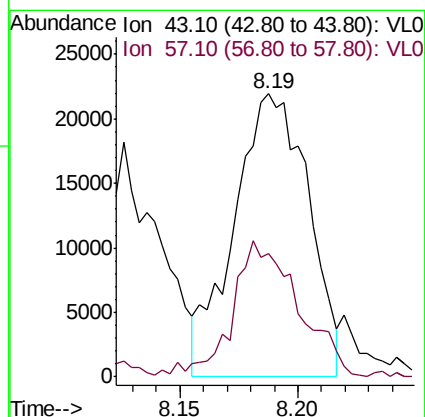
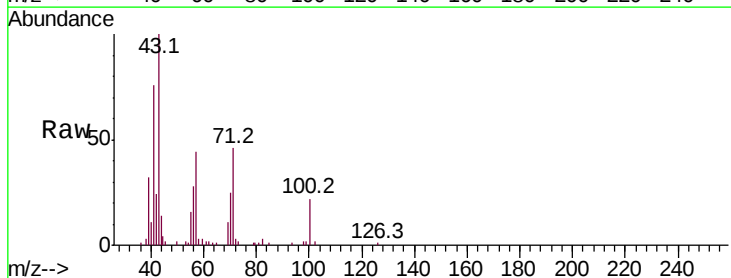
Acq: 12 Aug 2019 22:57

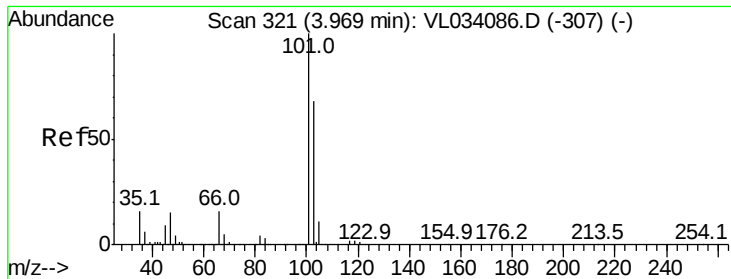
Tgt Ion: 43 Resp: 48286

Ion Ratio Lower Upper

43 100

57 0.0 37.2 55.8#





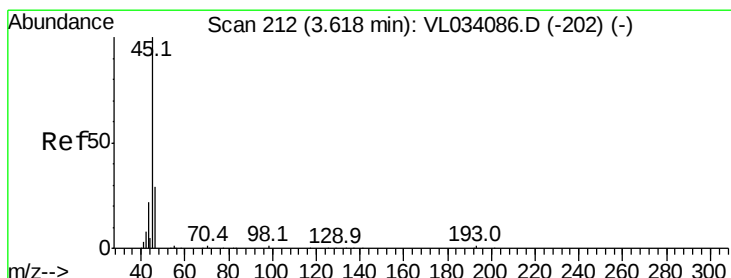
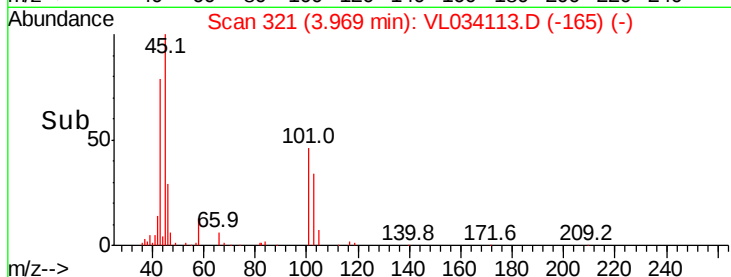
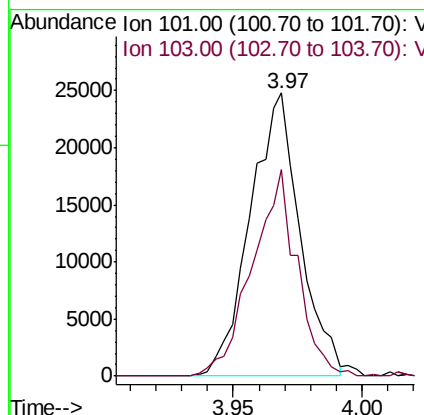
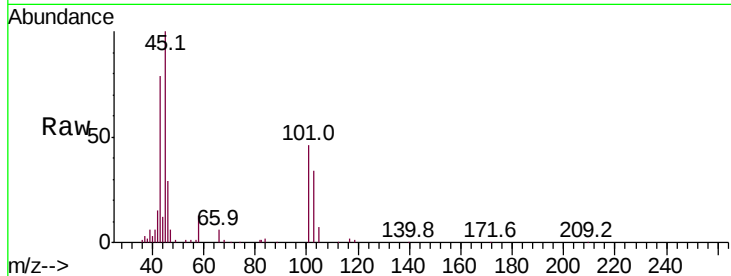
#11  
 Trichlorofluoromethane  
 Concen: 0.221 ppbv  
 RT: 3.97 min Scan# 321  
 Delta R.T. 0.00 min  
 Lab File: VL034113.D  
 Acq: 12 Aug 2019 22:57

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SRS-0807-VI2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 101     | 100   |       |       |
| 103     | 72.9  | 54.3  | 81.5  |

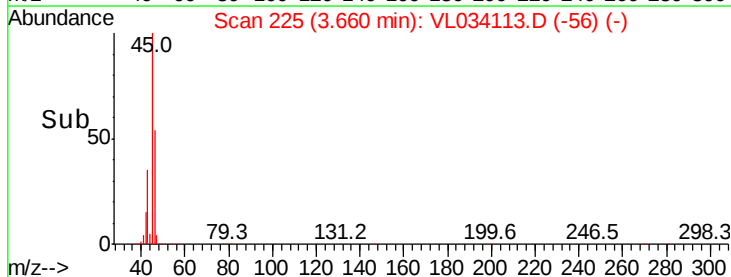
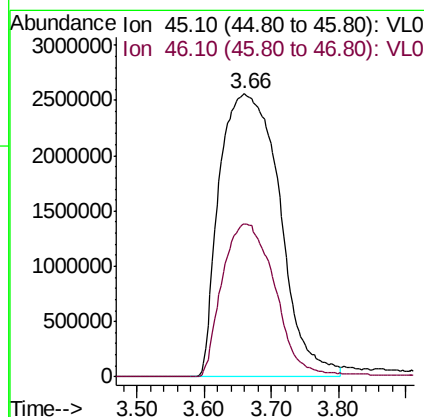
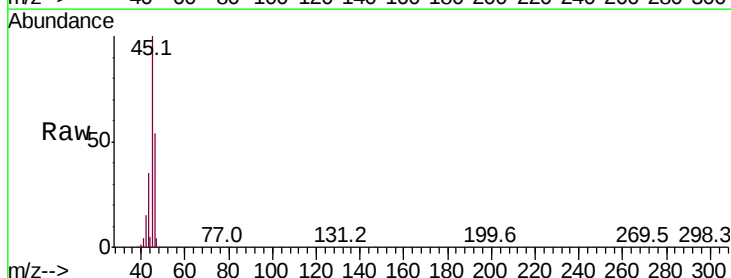
Manual Integrations  
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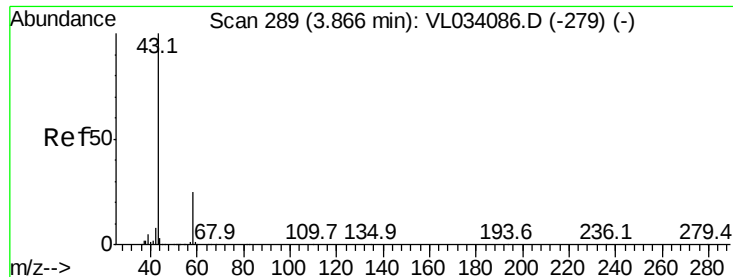
MMDadoda  
 8/16/2019 8:54:36 AM



#13  
 Ethanol  
 Concen: 797.411 ppbv  
 RT: 3.66 min Scan# 225  
 Delta R.T. 0.04 min  
 Lab File: VL034113.D  
 Acq: 12 Aug 2019 22:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 46      | 47.6  | 14.9  | 59.5  |





#15

Acetone

Concen: 62.197 ppbv

RT: 3.86 min Scan# 288

Delta R.T. -0.00 min

Lab File: VL034113.D

Acq: 12 Aug 2019 22:57

Instrument :

MSVOA\_L

ClientSampleId :

SRS-0807-VI2

Tot Ion: 43 Resp: 9245445

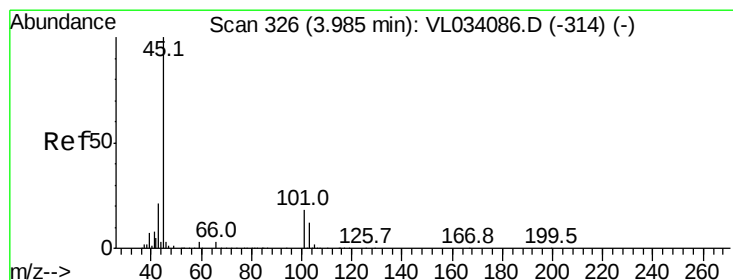
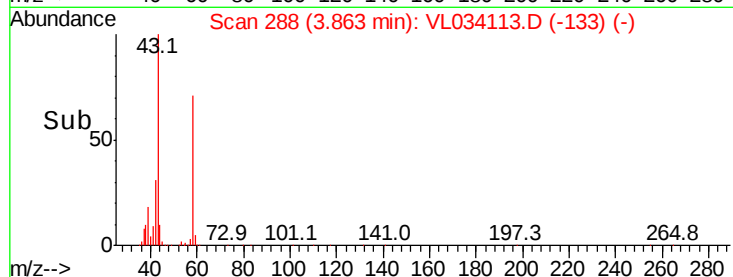
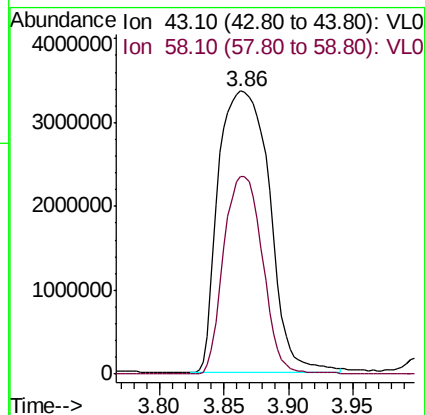
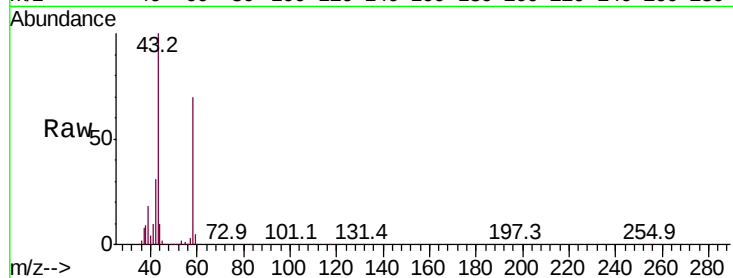
Ion Ratio Lower Upper

43 100

58 53.8 20.6 30.8#

Manual Integrations  
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8/16/2019 8:54:36 AM



#19

Isopropyl Alcohol

Concen: 102.417 ppbv m

RT: 4.04 min Scan# 343

Delta R.T. 0.05 min

Lab File: VL034113.D

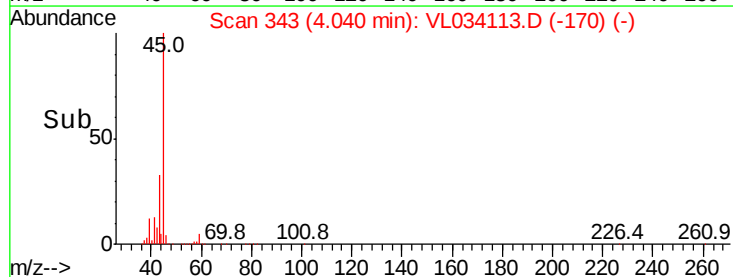
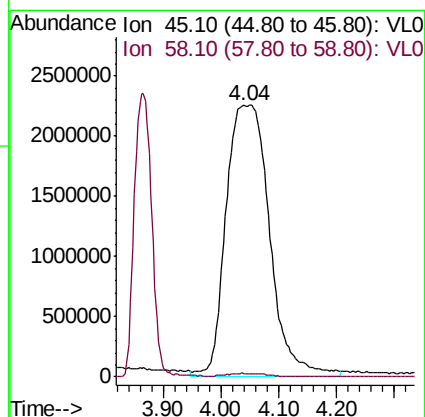
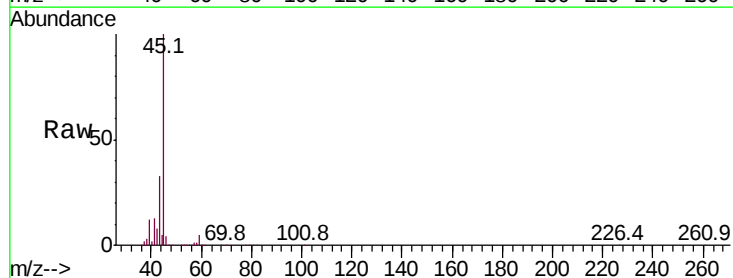
Acq: 12 Aug 2019 22:57

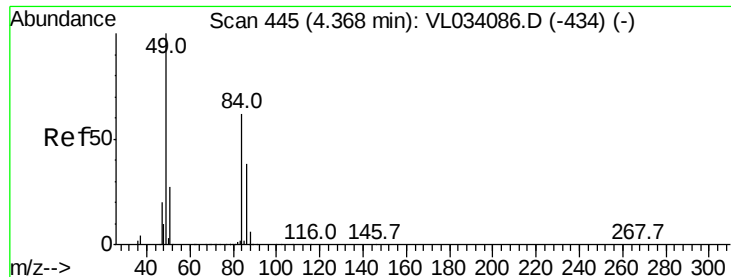
Tgt Ion: 45 Resp: 11853975

Ion Ratio Lower Upper

45 100

58 0.0 24.6 37.0#





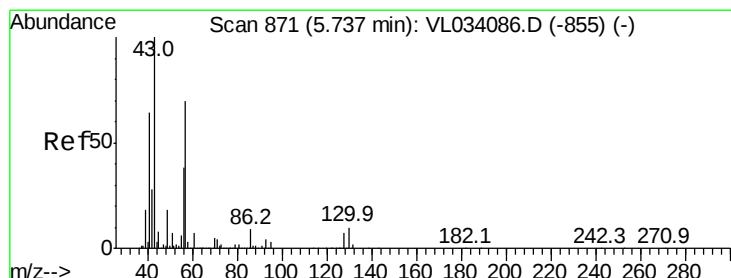
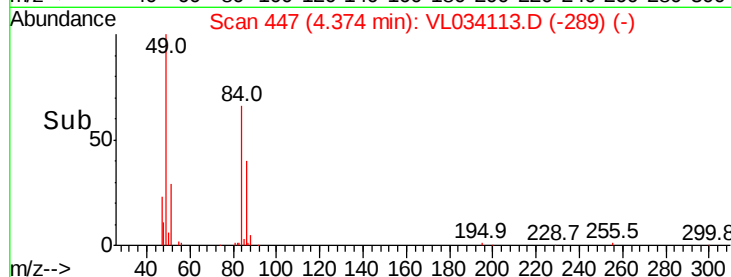
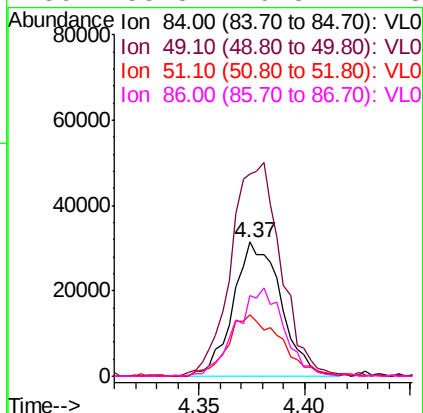
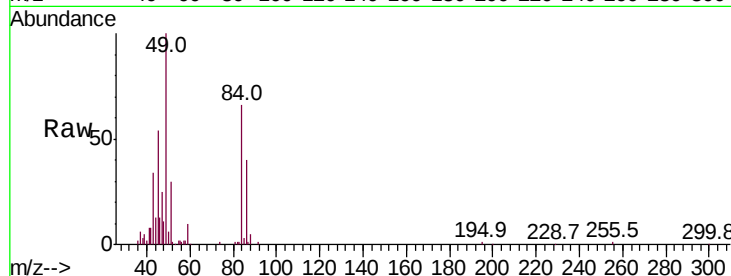
#20  
Methvlene Chloride  
Concen: 1.107 ppbv  
RT: 4.37 min Scan# 447  
Delta R.T. 0.01 min  
Lab File: VL034113.D  
Acq: 12 Aug 2019 22:57

Instrument :  
MSVOA\_L  
ClientSampleId :  
SRS-0807-VI2

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 49366 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 148.9 | 129.7 | 194.5 |
| 51       | 47.2  | 35.8  | 53.8  |
| 86       | 58.8  | 49.8  | 74.8  |

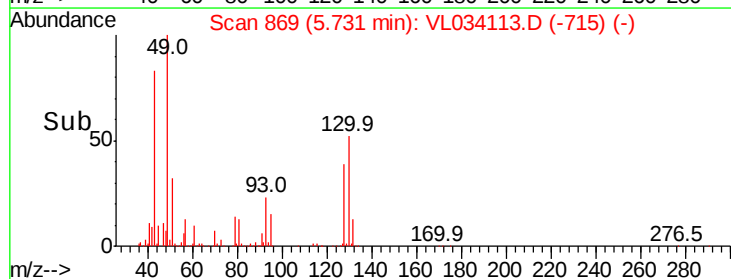
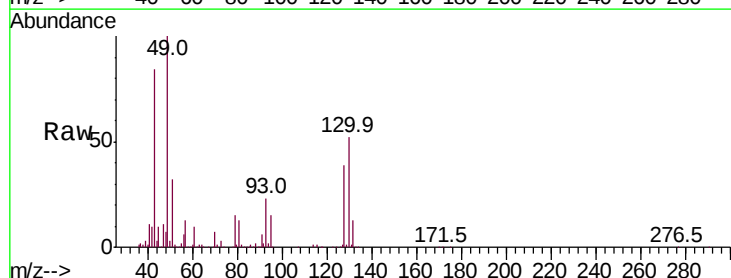
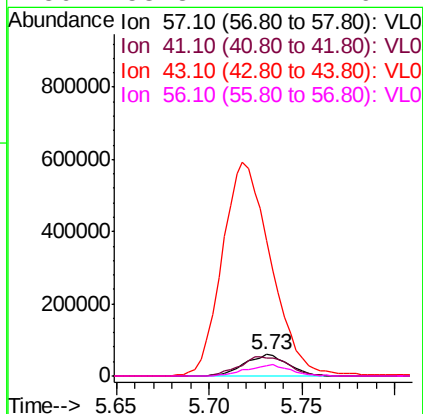
Manual Integrations  
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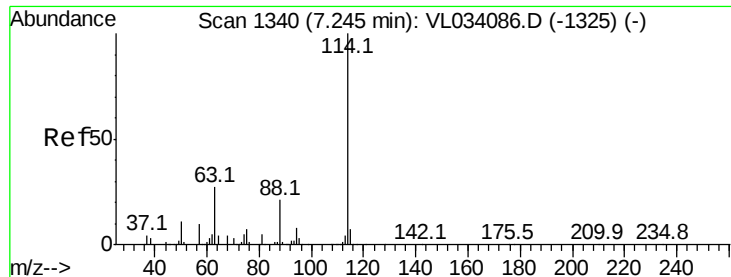
MMDadoda  
8/16/2019 8:54:36 AM



#26  
Hexane  
Concen: 0.790 ppbv  
RT: 5.73 min Scan# 869  
Delta R.T. -0.01 min  
Lab File: VL034113.D  
Acq: 12 Aug 2019 22:57

|          |        |       |        |
|----------|--------|-------|--------|
| Tgt Ion: | 57     | Resp: | 97882  |
| Ion      | Ratio  | Lower | Upper  |
| 57       | 100    |       |        |
| 41       | 102.6  | 75.7  | 113.5  |
| 43       | 1109.1 | 189.8 | 284.8# |
| 56       | 53.3   | 42.7  | 64.1   |





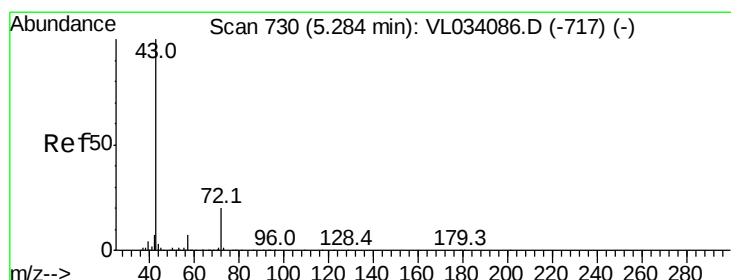
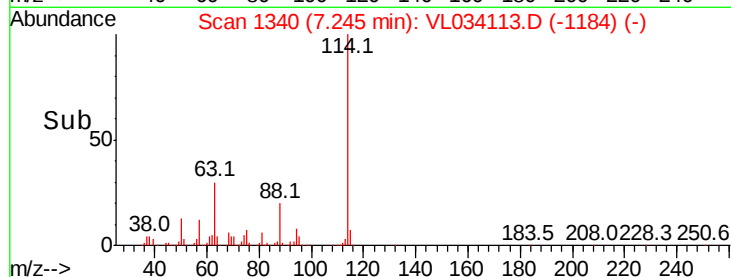
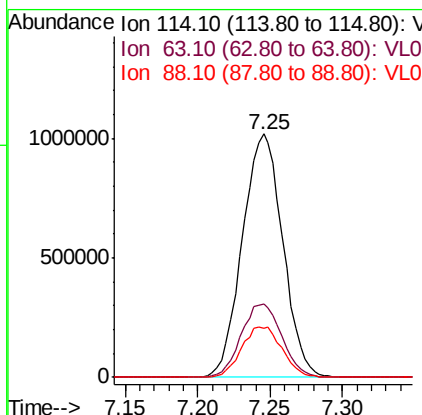
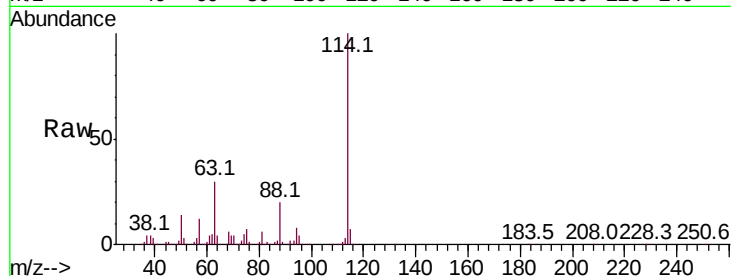
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.25 min Scan# 1340  
 Delta R.T. 0.00 min  
 Lab File: VL034113.D  
 Acq: 12 Aug 2019 22:57

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SRS-0807-VI2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 30.4  | 22.5  | 33.7  |
| 88      | 20.8  | 15.7  | 23.5  |

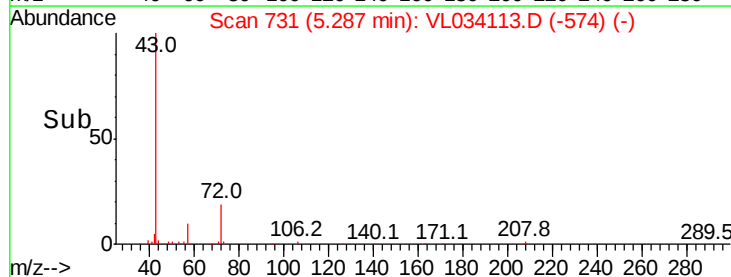
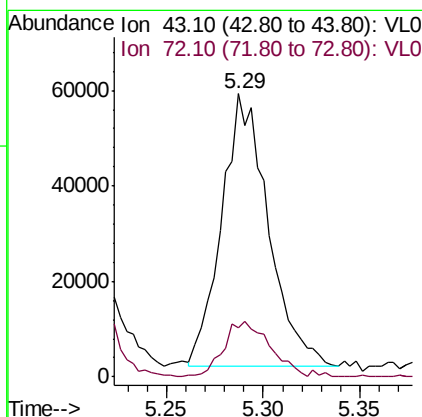
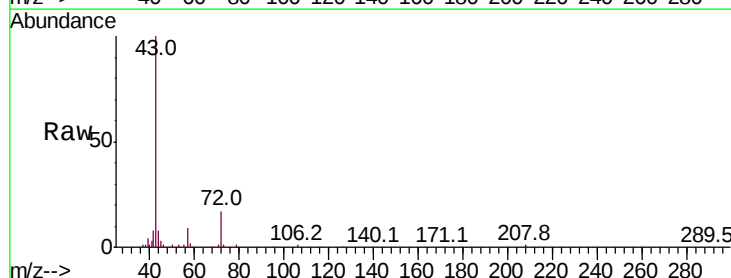
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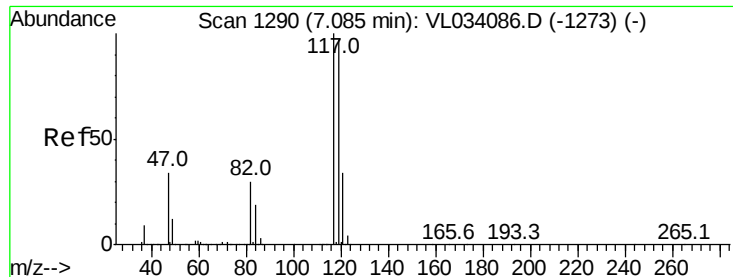
MMDadoda  
 8/16/2019 8:54:36 AM



#34  
 2-Butanone  
 Concen: 0.522 ppbv  
 RT: 5.29 min Scan# 731  
 Delta R.T. 0.00 min  
 Lab File: VL034113.D  
 Acq: 12 Aug 2019 22:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 20.5  | 16.0  | 24.0  |





#35

Carbon Tetrachloride

Concen: 0.060 ppbv m

RT: 7.08 min Scan# 1290

Delta R.T. 0.00 min

Lab File: VL034113.D

Acq: 12 Aug 2019 22:57

Instrument :

MSVOA\_L

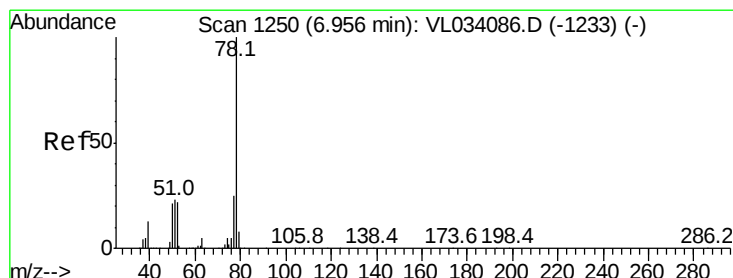
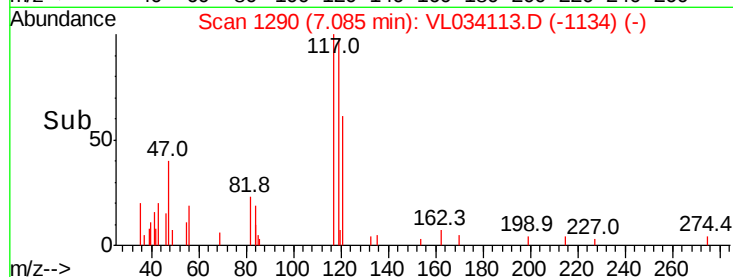
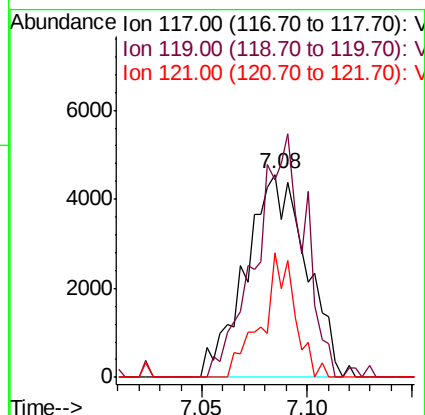
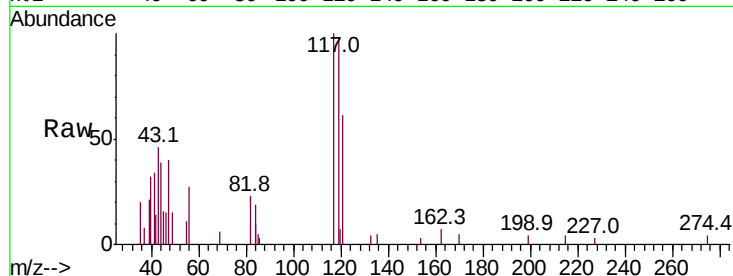
ClientSampleId :

SRS-0807-VI2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 117   | Resp: | 9096  |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 119       | 97.5  | 77.8  | 116.6 |
| 121       | 61.1  | 27.4  | 41.2# |

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#36

Benzene

Concen: 0.186 ppbv

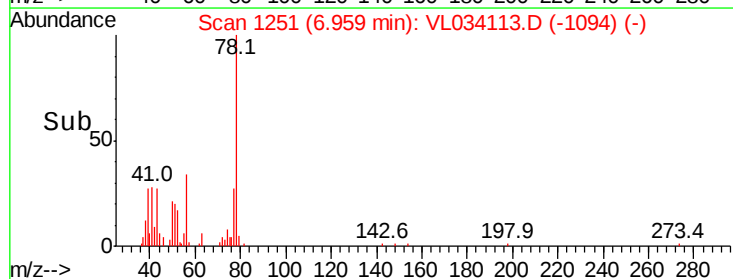
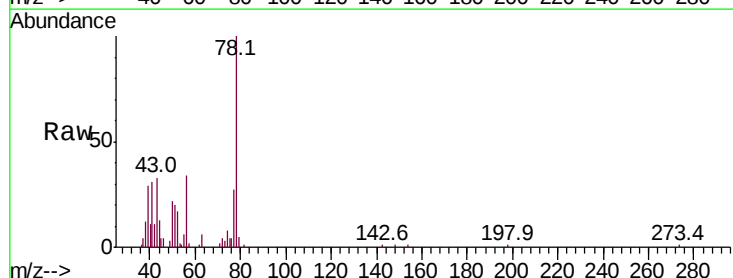
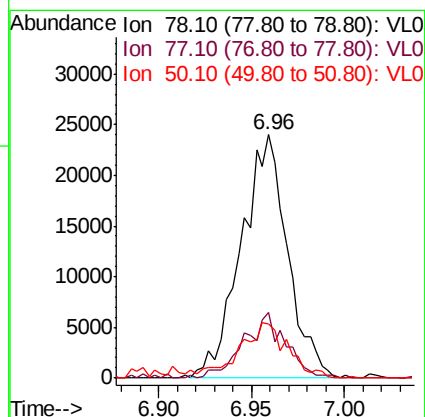
RT: 6.96 min Scan# 1251

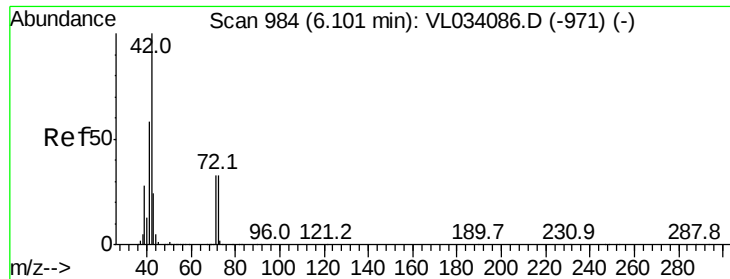
Delta R.T. 0.00 min

Lab File: VL034113.D

Acq: 12 Aug 2019 22:57

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 78    | Resp: | 41775 |
| Ion Ratio | Lower | Upper |       |
| 78        | 100   |       |       |
| 77        | 27.2  | 19.9  | 29.9  |
| 50        | 22.4  | 16.7  | 25.1  |





#41

Tetrahydrofuran

Concen: 0.192 ppbv m

RT: 6.11 min Scan# 988

Delta R.T. 0.01 min

Lab File: VL034113.D

Acq: 12 Aug 2019 22:57

Instrument :

MSVOA\_L

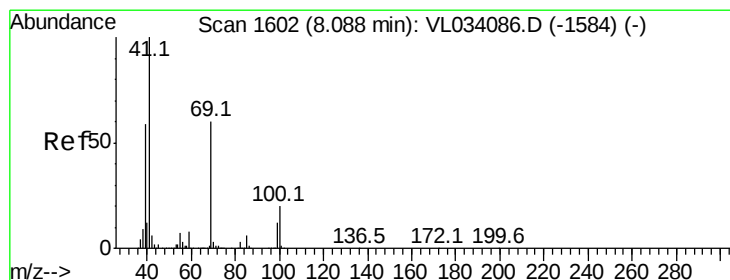
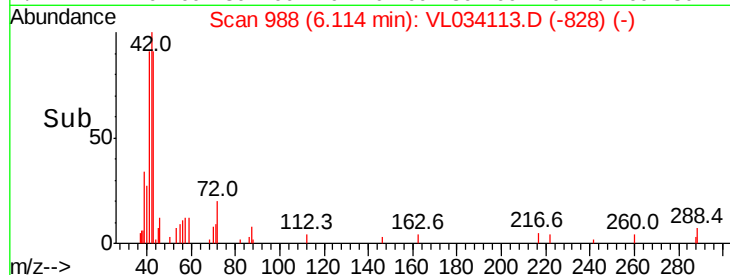
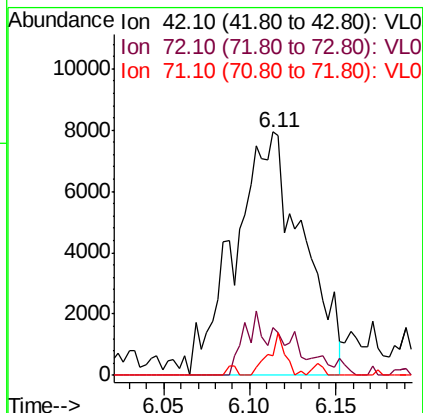
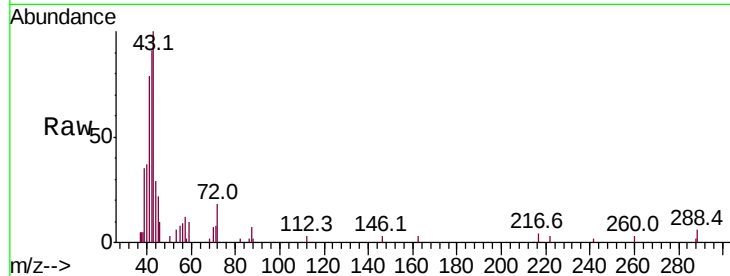
ClientSampleId :

SRS-0807-VI2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 17.8  | 26.9  | 40.3# |
| 71      | 0.0   | 26.5  | 39.7# |

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#43

Methyl Methacrylate

Concen: 20.289 ppbv

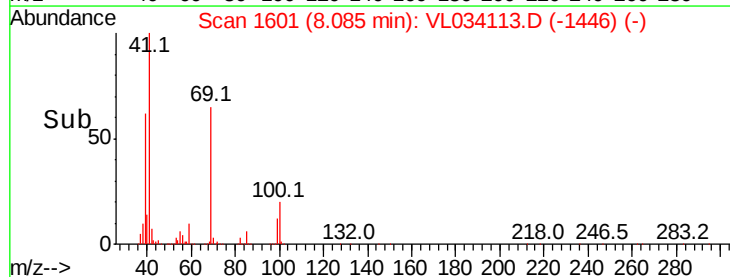
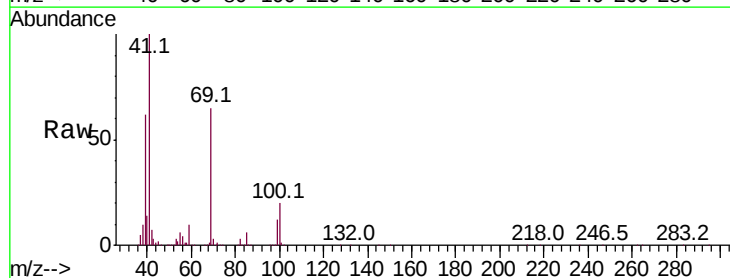
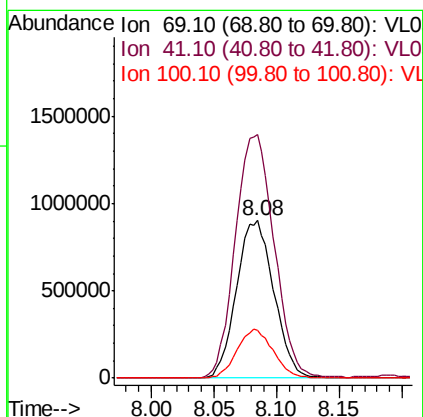
RT: 8.08 min Scan# 1601

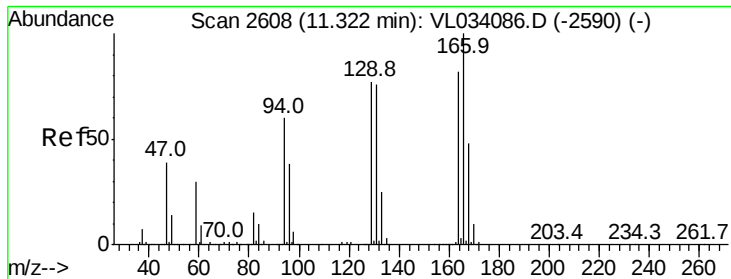
Delta R.T. -0.00 min

Lab File: VL034113.D

Acq: 12 Aug 2019 22:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 69      | 100   |       |       |
| 41      | 160.6 | 132.9 | 199.3 |
| 100     | 30.1  | 25.8  | 38.8  |





#52

Tetrachloroethene

Concen: 0.057 ppbv m

RT: 11.30 min Scan# 2602

Delta R.T. -0.02 min

Lab File: VL034113.D

Acq: 12 Aug 2019 22:57

Instrument :

MSVOA\_L

ClientSampleId :

SRS-0807-VI2

Tot Ion:164 Resp: 4969

Ion Ratio Lower Upper

164 100

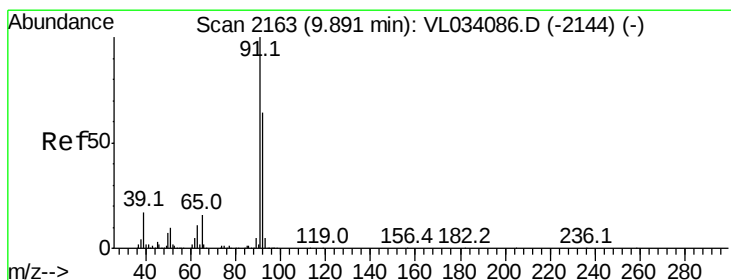
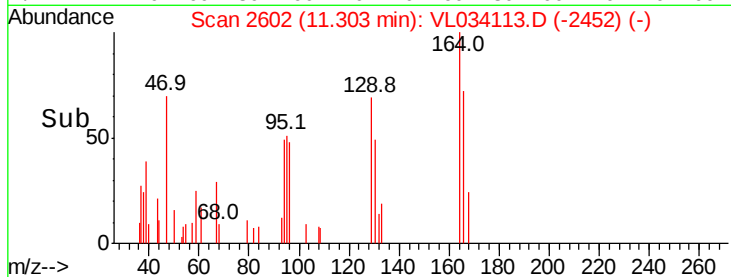
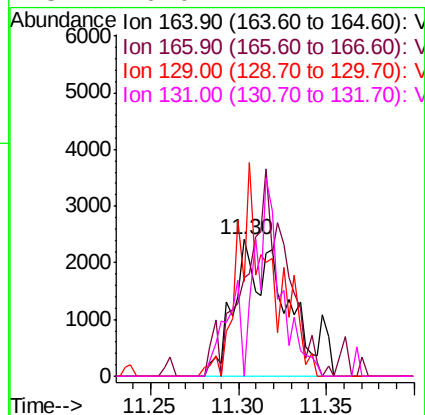
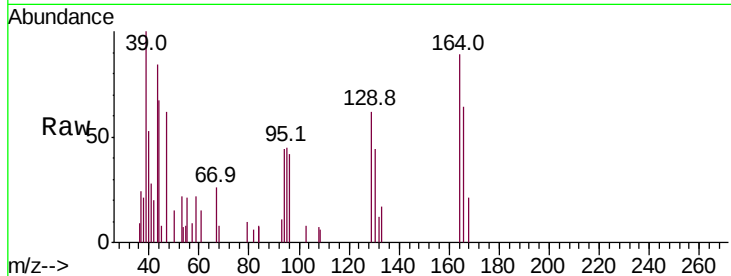
166 71.8 96.8 145.2#

129 69.3 74.9 112.3#

131 0.0 74.2 111.2#

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#53

Toluene

Concen: 8.774 ppbv

RT: 9.89 min Scan# 2162

Delta R.T. -0.00 min

Lab File: VL034113.D

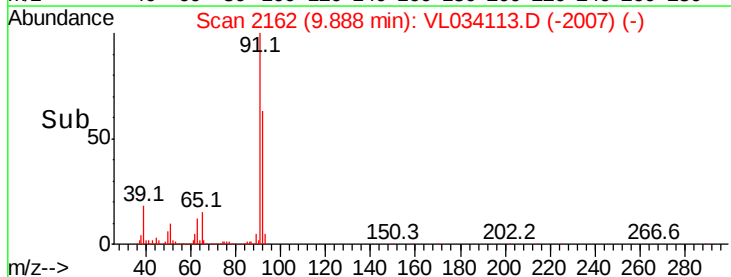
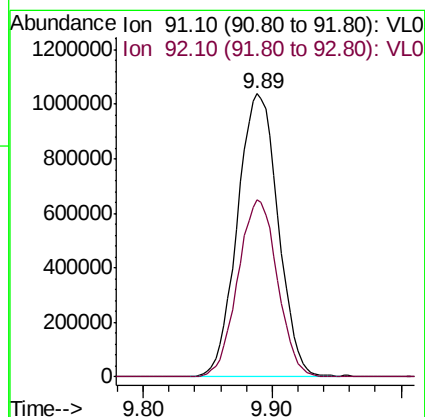
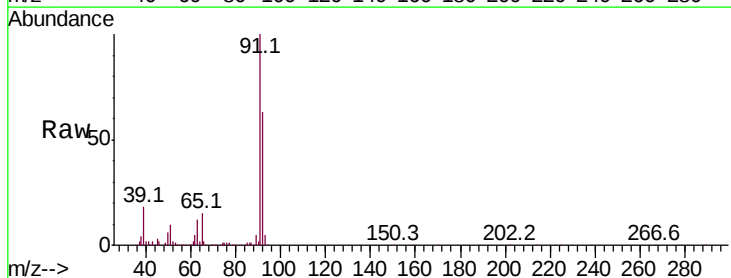
Acq: 12 Aug 2019 22:57

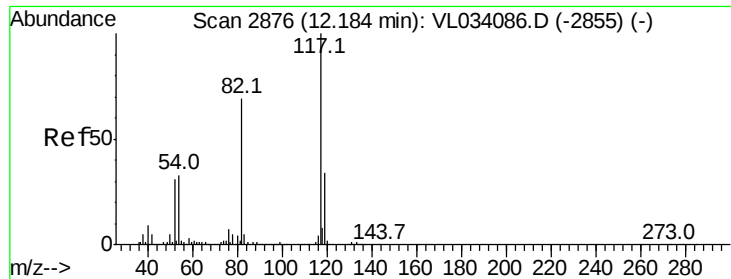
Tgt Ion: 91 Resp: 2274696

Ion Ratio Lower Upper

91 100

92 61.1 50.3 75.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.18 min Scan# 2875

Delta R.T. -0.00 min

Lab File: VL034113.D

Acq: 12 Aug 2019 22:57

Instrument :

MSVOA\_L

ClientSampleId :

SRS-0807-VI2

Tot Ion:117 Resp: 1986086

Ion Ratio Lower Upper

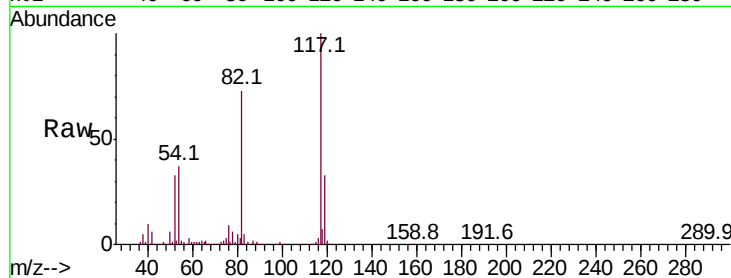
117 100

82 74.1 52.2 78.4

119 33.0 44.8 67.2#

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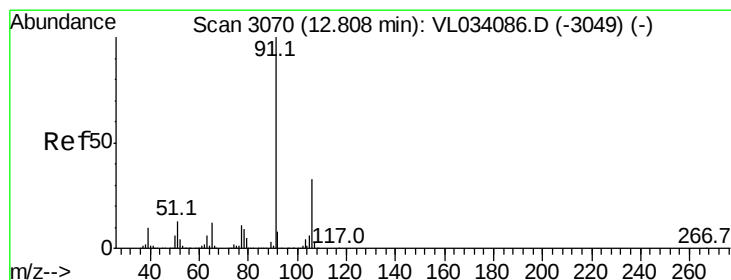
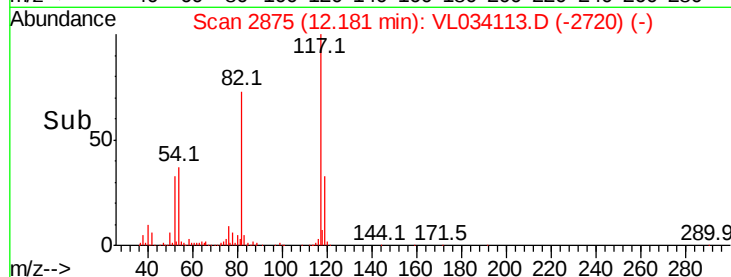
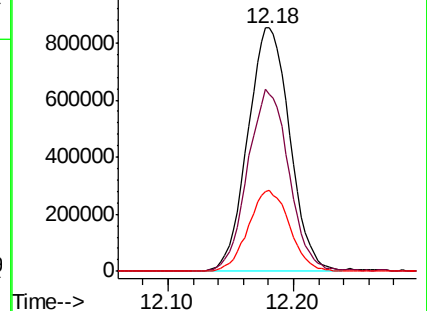
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#58

Ethyl Benzene

Concen: 0.116 ppbv m

RT: 12.80 min Scan# 3068

Delta R.T. -0.01 min

Lab File: VL034113.D

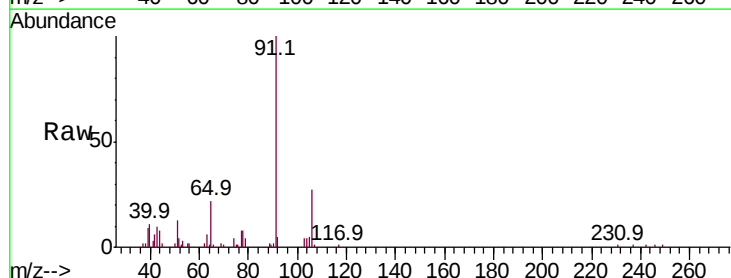
Acq: 12 Aug 2019 22:57

Tgt Ion: 91 Resp: 38893

Ion Ratio Lower Upper

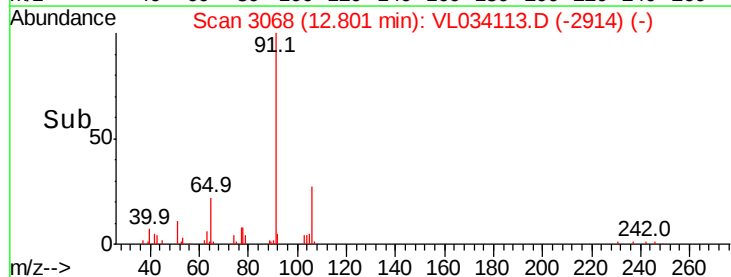
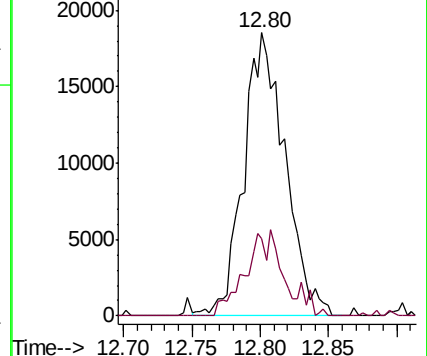
91 100

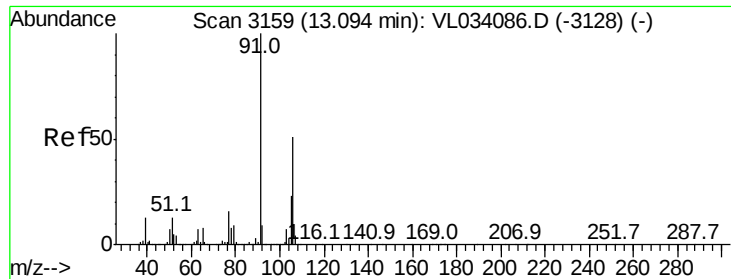
106 27.4 26.0 39.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





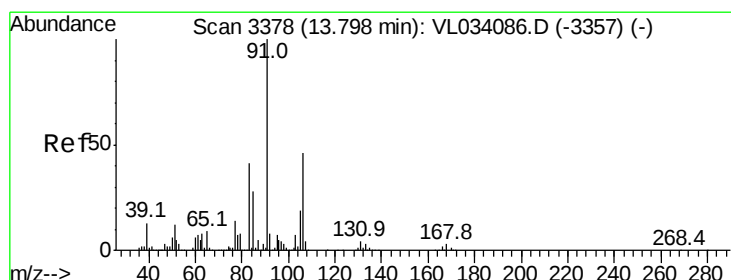
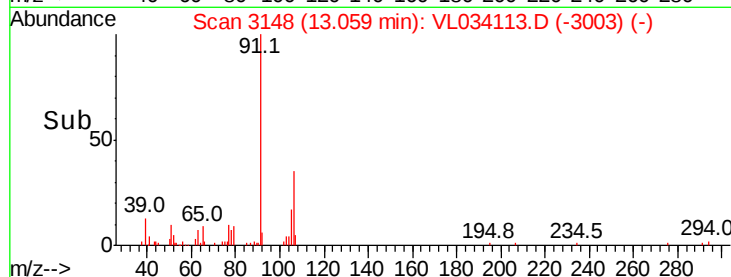
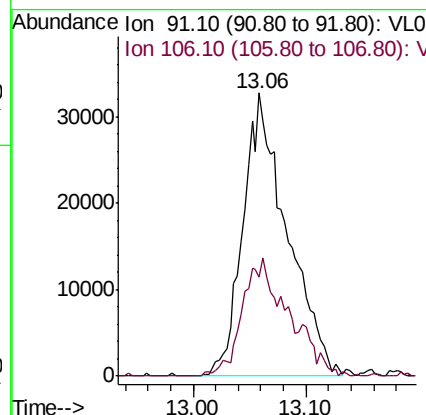
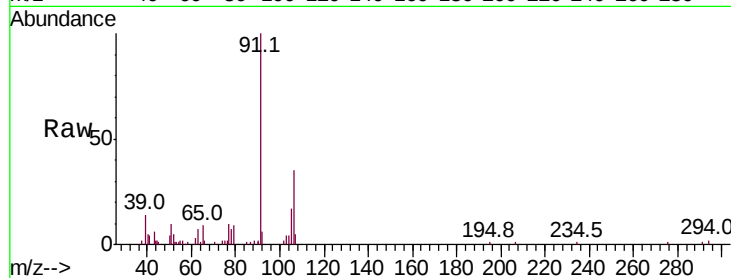
#59  
m/p-Xylene  
Concen: 0.333 ppbv m  
RT: 13.06 min Scan# 3148  
Delta R.T. -0.04 min  
Lab File: VL034113.D  
Acq: 12 Aug 2019 22:57

Instrument :  
MSVOA\_L  
ClientSampleId :  
SRS-0807-VI2

Tot Ion: 91 Resp: 89154  
Ion Ratio Lower Upper  
91 100  
106 0.0 38.7 58.1#

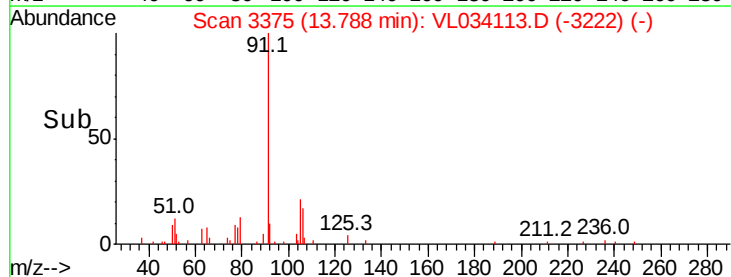
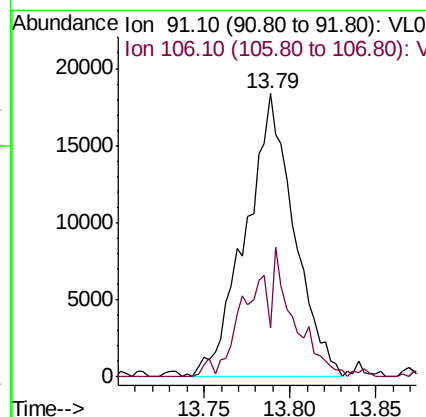
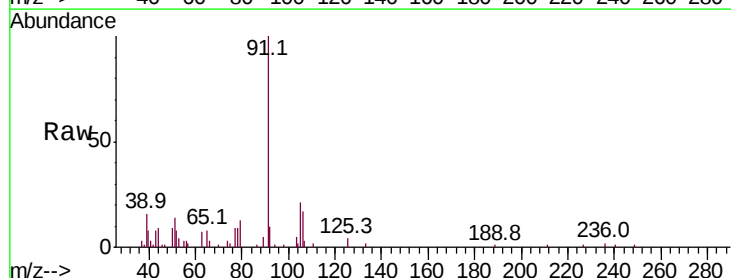
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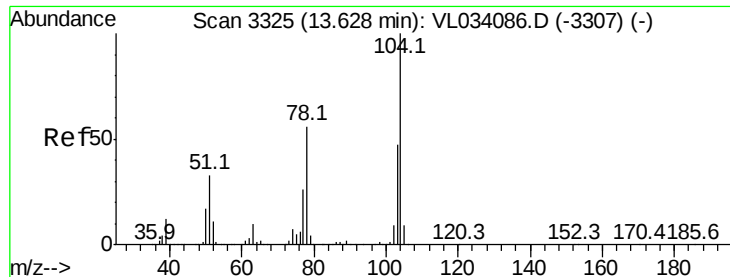
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#60  
o-Xylene  
Concen: 0.134 ppbv  
RT: 13.79 min Scan# 3375  
Delta R.T. -0.01 min  
Lab File: VL034113.D  
Acq: 12 Aug 2019 22:57

Tgt Ion: 91 Resp: 35996  
Ion Ratio Lower Upper  
91 100  
106 42.9 22.6 67.7





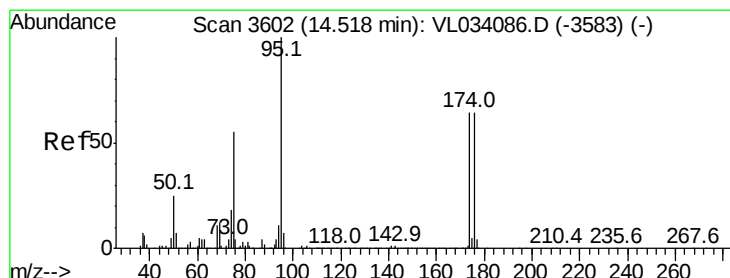
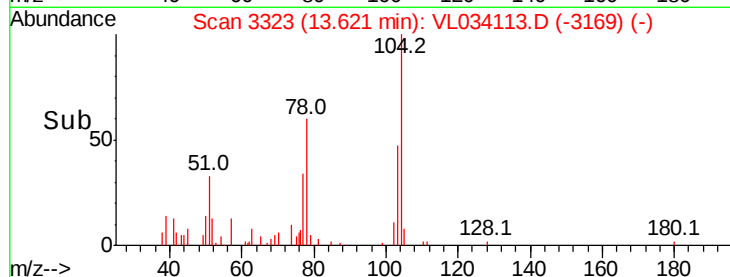
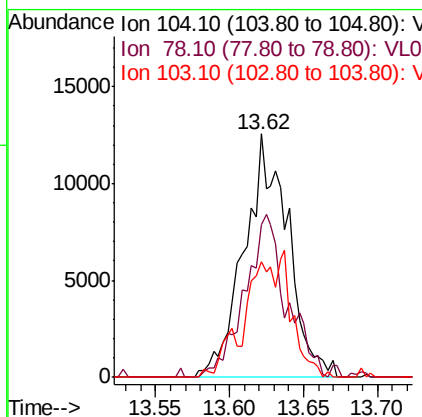
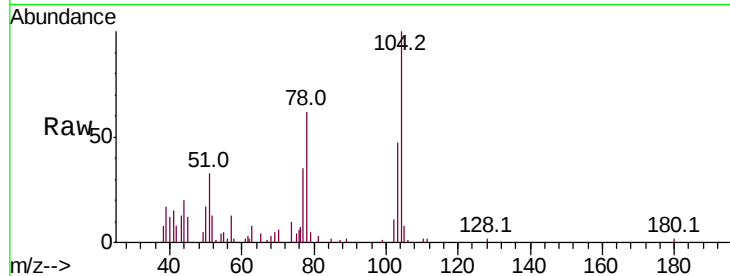
#61  
Stvrene  
Concen: 0.120 ppbv m  
RT: 13.62 min Scan# 3323  
Delta R.T. -0.01 min  
Lab File: VL034113.D  
Acq: 12 Aug 2019 22:57

Instrument :  
MSVOA\_L  
ClientSampleId :  
SRS-0807-VI2

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 66.3  | 44.2  | 66.4  |
| 103     | 0.0   | 38.3  | 57.5# |

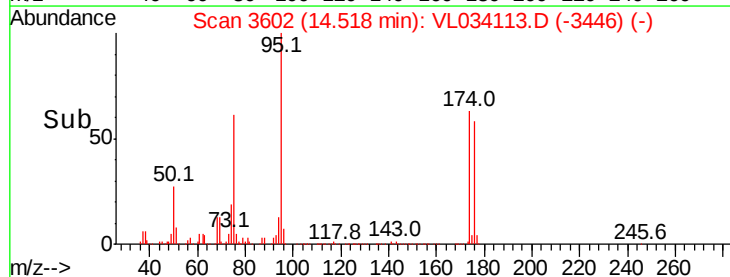
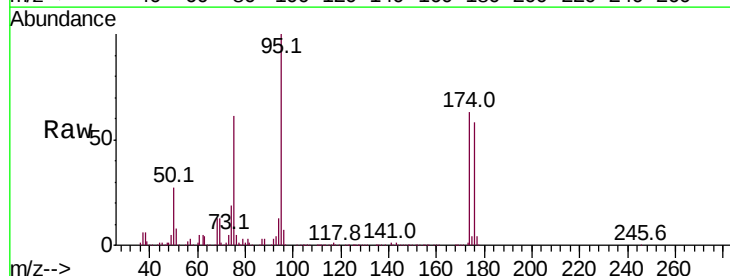
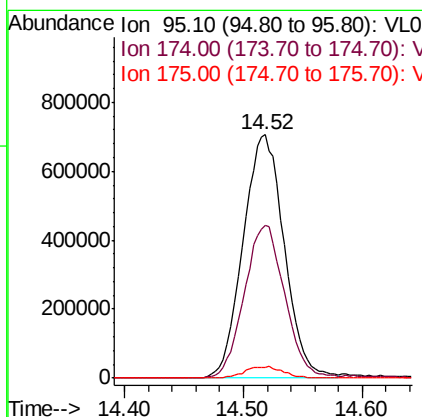
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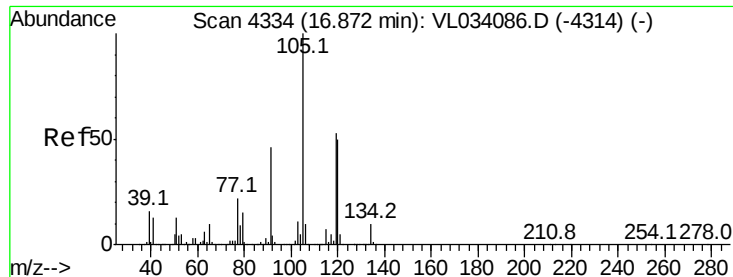
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#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.476 ppbv  
RT: 14.52 min Scan# 3602  
Delta R.T. 0.00 min  
Lab File: VL034113.D  
Acq: 12 Aug 2019 22:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 62.7  | 53.0  | 79.6  |
| 175     | 4.6   | 4.2   | 6.2   |





#74

1,2,4-Trimethylbenzene

Concen: 0.138 ppbv

RT: 16.86 min Scan# 4330

Delta R.T. -0.01 min

Lab File: VL034113.D

Acq: 12 Aug 2019 22:57

Instrument :

MSVOA\_L

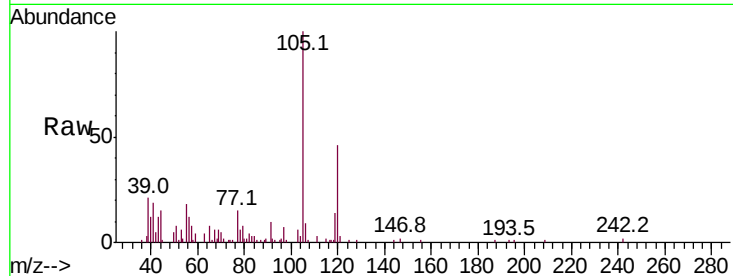
ClientSampleId :

SRS-0807-VI2

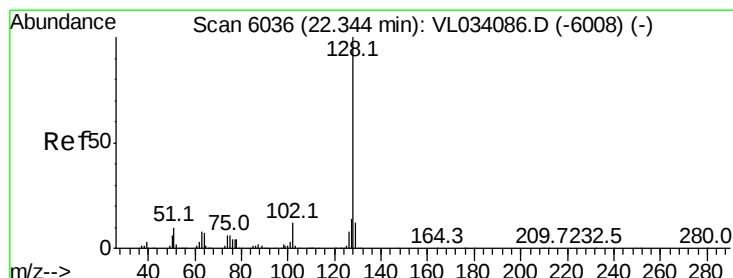
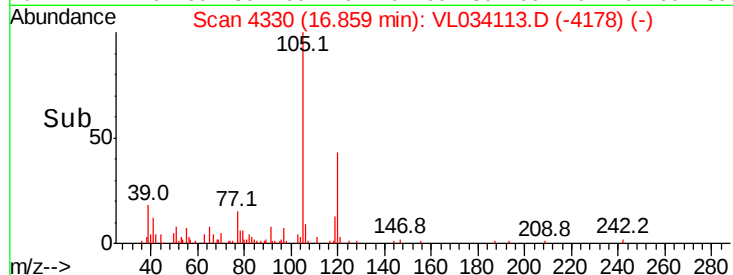
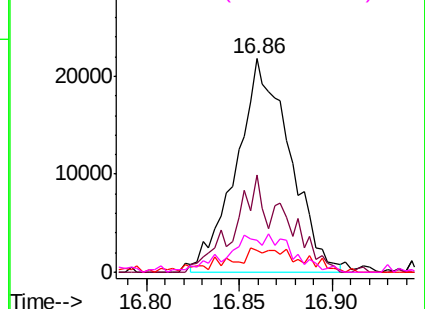
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 105     | 100   |      |       |       |
| 120     | 47.4  | 40.2 | 60.4  |       |
| 91      | 9.0   | 38.1 | 57.1  |       |
| 77      | 14.6  | 17.8 | 26.8  |       |

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Abundance Ion 105.10 (104.80 to 105.80): V  
Ion 120.20 (119.90 to 120.90): V  
Ion 91.10 (90.80 to 91.80): VL0  
Ion 77.10 (76.80 to 77.80): VL0



#79

Naphthalene

Concen: 0.815 ppbv

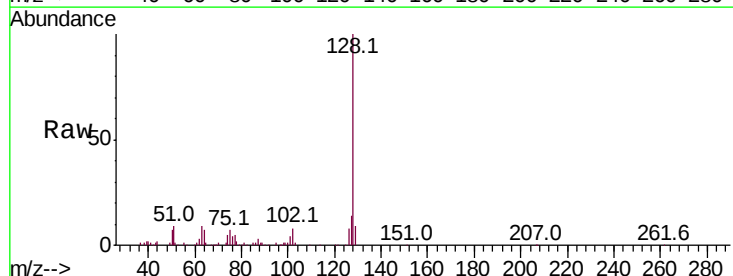
RT: 22.34 min Scan# 6034

Delta R.T. -0.01 min

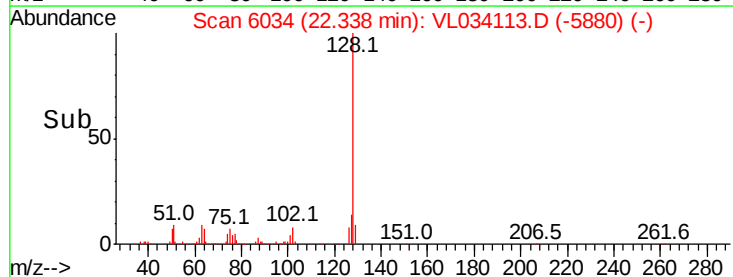
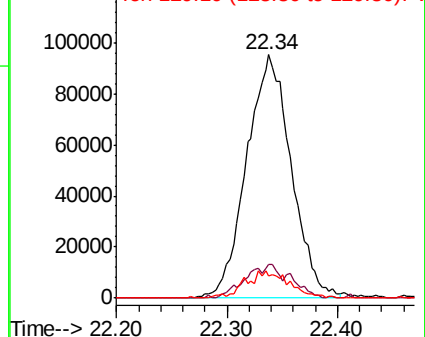
Lab File: VL034113.D

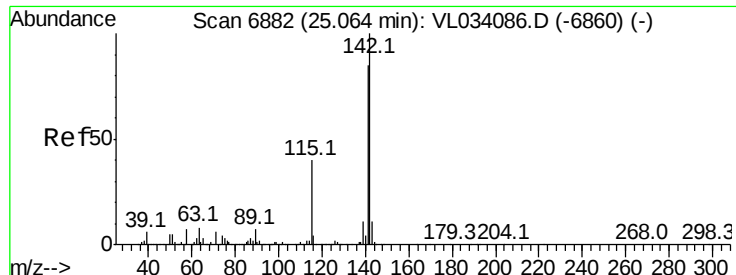
Acq: 12 Aug 2019 22:57

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 128     | 100   |      |       |       |
| 127     | 14.0  | 11.0 | 16.6  |       |
| 129     | 9.1   | 9.2  | 13.8  |       |



Abundance Ion 128.10 (127.80 to 128.80): V  
Ion 127.10 (126.80 to 127.80): V  
Ion 129.10 (128.80 to 129.80): V





#80  
 Naphthalene, 2-methyl-  
 Concen: 0.099 ppbv  
 RT: 25.06 min Scan# 6882  
 Delta R.T. 0.00 min  
 Lab File: VL034113.D  
 Acq: 12 Aug 2019 22:57

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SRS-0807-VI2

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 142   | Resp: | 10168 |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 82.2  | 66.1  | 99.1  |
| 115       | 37.7  | 30.8  | 46.2  |

Manual Integrations  
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 8/16/2019 8:54:36 AM

