

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100820\  
 Data File : VL035748.D  
 Acq On : 8 Oct 2020 16:56  
 Operator : SY/AP  
 Sample : L4312-01  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Quant Time: Oct 09 01:18:15 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Sep 23 07:38:05 2020  
 QLast Update : Wed Sep 23 07:38:05 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.67  | 49   | 1052985  | 10.00 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 7.18  | 114  | 4191387  | 10.00 | ppbv  | -0.01    |
| 55) Chlorobenzene-d5    | 12.10 | 117  | 4259005  | 10.00 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.43  | 95    | 3203965  | 10.04    | ppbv | -0.01   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.40% |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.04  | 85   | 63069    | 0.365  | ppbv   | 99     |
| 3) Chlorodifluoromethane       | 2.96  | 51   | 208122   | 1.837  | ppbv # | 63     |
| 4) Chloromethane               | 3.13  | 50   | 31373    | 0.516  | ppbv   | 98     |
| 9) Propene                     | 3.01  | 41   | 111891   | 2.720  | ppbv   | 87     |
| 10) Heptane                    | 8.13  | 43   | 136038   | 1.186  | ppbv   | 95     |
| 11) Trichlorofluoromethane     | 3.95  | 101  | 68746    | 0.279  | ppbv   | 92     |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48  | 101  | 15228    | 0.083  | ppbv   | 97     |
| 13) Ethanol                    | 3.60  | 45   | 407534   | 40.178 | ppbv   | 99     |
| 15) Acetone                    | 3.84  | 43   | 1950598  | 17.216 | ppbv   | 96     |
| 16) 1,3-Butadiene              | 3.30  | 39   | 62998    | 1.520  | ppbv # | 26     |
| 17) tert-Butyl alcohol         | 4.31  | 59   | 4455     | 0.036  | ppbv # | 72     |
| 19) Isopropyl Alcohol          | 3.97  | 45   | 86267    | 1.400  | ppbv # | 1      |
| 20) Methylene Chloride         | 4.34  | 84   | 148656   | 1.786  | ppbv   | 95     |
| 21) Allyl Chloride             | 4.37  | 41   | 27045    | 0.492  | ppbv # | 46     |
| 23) Vinyl Acetate              | 5.06  | 43   | 222363   | 1.602  | ppbv # | 45     |
| 25) Ethyl Acetate              | 5.68  | 43   | 257562   | 1.263  | ppbv # | 86     |
| 26) Hexane                     | 5.69  | 57   | 305009   | 2.730  | ppbv # | 61     |
| 30) Cyclohexane                | 7.14  | 84   | 99634    | 0.904  | ppbv   | 100    |
| 34) 2-Butanone                 | 5.25  | 43   | 350800   | 2.530  | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.02  | 117  | 16653    | 0.076  | ppbv # | 91     |
| 36) Benzene                    | 6.89  | 78   | 302977   | 1.109  | ppbv # | 92     |
| 39) 1,2-Dichloropropane        | 7.18  | 63   | 804031   | 8.122  | ppbv # | 30     |
| 40) 1,4-Dioxane                | 7.87  | 88   | 2457     | 0.054  | ppbv # | 1      |
| 42) Bromodichloromethane       | 7.80  | 83   | 15658    | 0.068  | ppbv # | 32     |
| 44) 2,2,4-Trimethylpentane     | 7.87  | 57   | 529075   | 1.350  | ppbv # | 89     |
| 51) 2-Hexanone                 | 10.12 | 43   | 26377    | 0.162  | ppbv # | 21     |
| 53) Toluene                    | 9.82  | 91   | 1833122  | 5.692  | ppbv   | 98     |
| 58) Ethyl Benzene              | 12.72 | 91   | 346776   | 0.811  | ppbv   | 93     |
| 59) m/p-Xylene                 | 12.98 | 91   | 1068140  | 2.861  | ppbv   | 99     |
| 60) o-Xylene                   | 13.71 | 91   | 395638   | 1.048  | ppbv   | 97     |
| 61) Styrene                    | 13.55 | 104  | 13764    | 0.053  | ppbv   | 92     |
| 62) Isopropylbenzene           | 14.69 | 105  | 36787    | 0.063  | ppbv   | 95     |
| 64) n-propylbenzene            | 15.58 | 120  | 15619    | 0.091  | ppbv # | 1      |
| 65) tert-Butylbenzene          | 16.78 | 119  | 64725    | 0.122  | ppbv # | 75     |
| 66) Benzyl Chloride            | 17.23 | 91   | 9680     | 0.060  | ppbv # | 64     |
| 70) n-Butylbenzene             | 18.58 | 91   | 43235    | 0.070  | ppbv # | 49     |
| 71) 2-Chlorotoluene            | 15.58 | 91   | 126053   | 0.295  | ppbv # | 40     |
| 72) 4-Ethyltoluene             | 15.86 | 105  | 152999   | 0.342  | ppbv   | 99     |
| 73) 1,3,5-Trimethylbenzene     | 16.02 | 105  | 131950   | 0.312  | ppbv   | 91     |
| 74) 1,2,4-Trimethylbenzene     | 16.78 | 105  | 539303   | 1.132  | ppbv # | 71     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100820\  
Data File : VL035748.D  
Acq On : 8 Oct 2020 16:56  
Operator : SY/AP  
Sample : L4312-01  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :

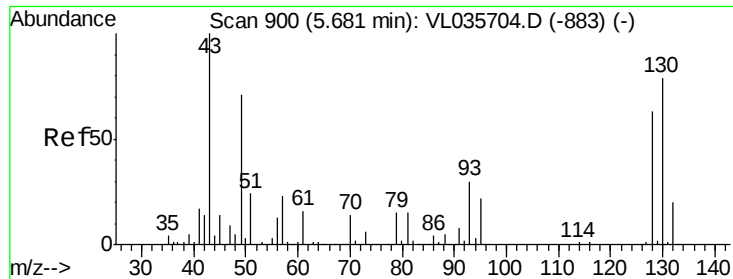
Quant Time: Oct 09 01:18:15 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092320AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Sep 23 07:38:05 2020  
QLast Update : Wed Sep 23 07:38:05 2020  
Response via : Initial Calibration

| Internal Standards | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|--------------------|------|------|----------|------|-------|----------|
|--------------------|------|------|----------|------|-------|----------|

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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

Instrument :  
MSVOA\_L  
ClientSampled :

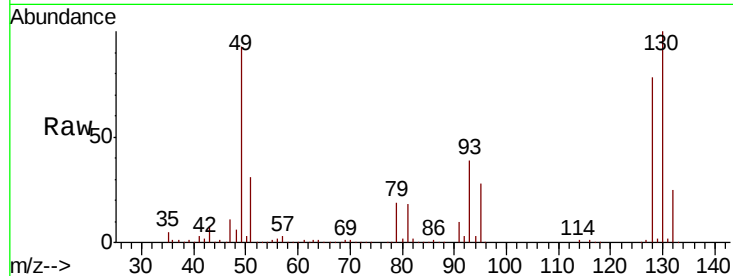
Tot Ion: 49 Resp: 1052985

Ion Ratio Lower Upper

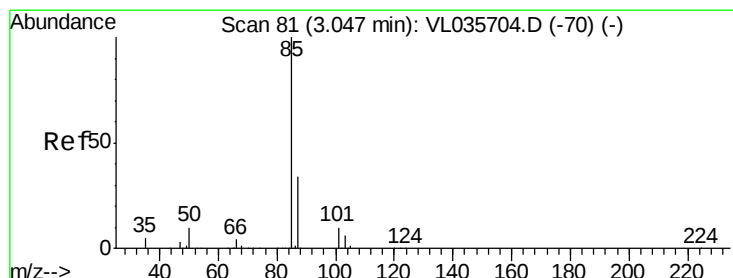
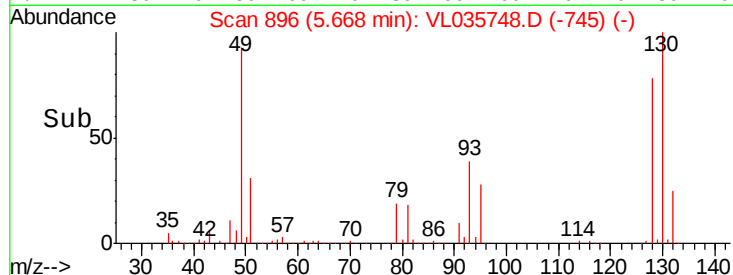
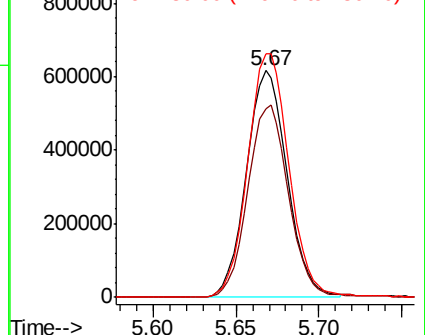
49 100

128 86.0 43.1 129.4

130 110.1 54.9 164.7



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: 0.365 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.00 min

Lab File: VL035748.D

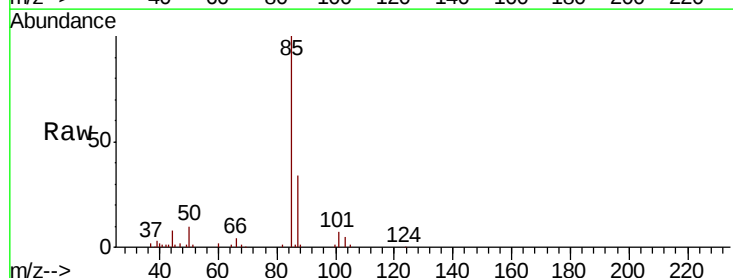
Acq: 8 Oct 2020 16:56

Tgt Ion: 85 Resp: 63069

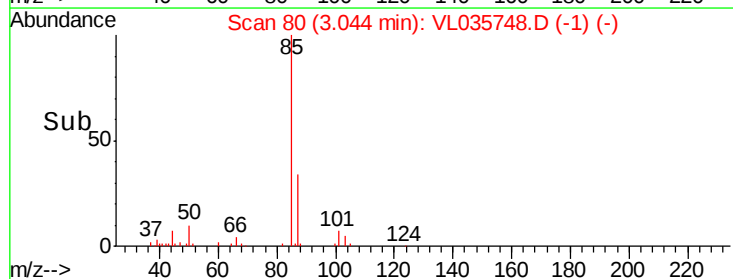
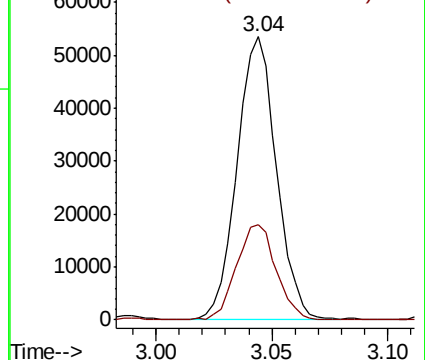
Ion Ratio Lower Upper

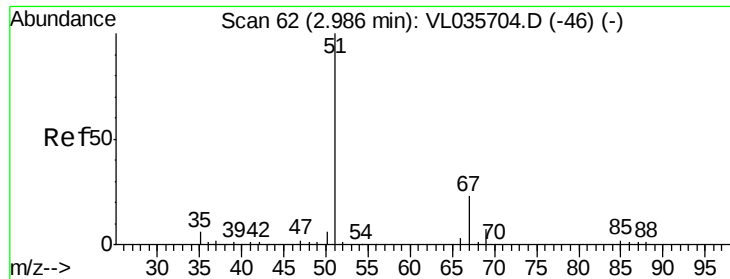
85 100

87 33.6 27.3 40.9



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

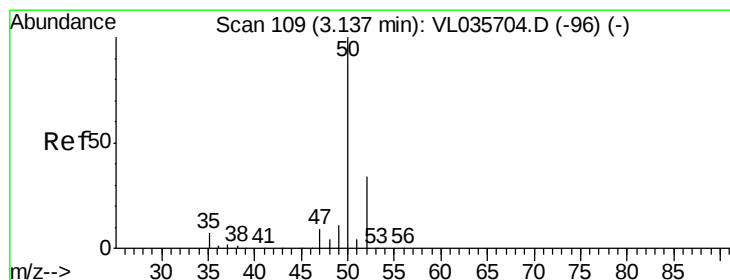
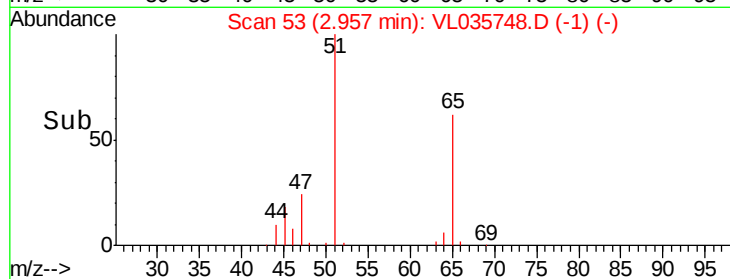
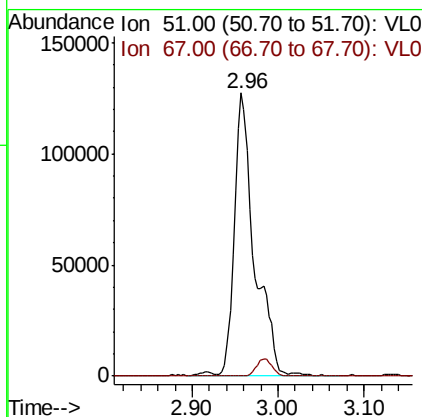
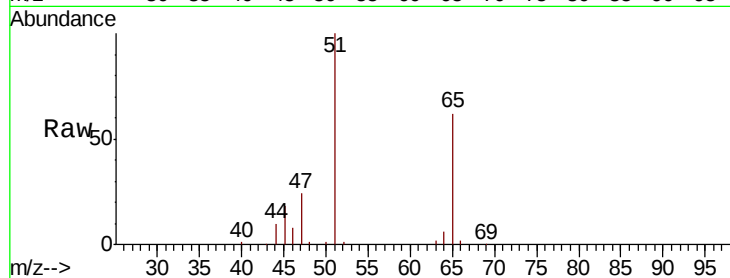




#3  
 Chlorodifluoromethane  
 Concen: 1.837 ppbv  
 RT: 2.96 min Scan# 53  
 Delta R.T. -0.03 min  
 Lab File: VL035748.D  
 Acq: 8 Oct 2020 16:56

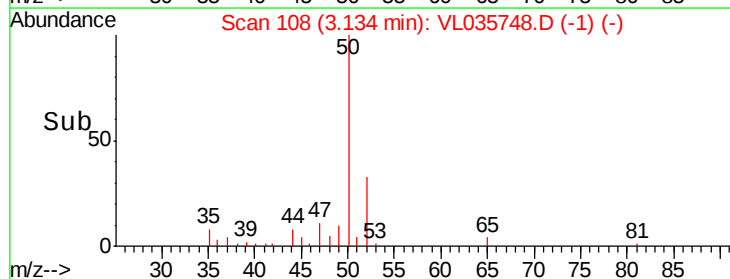
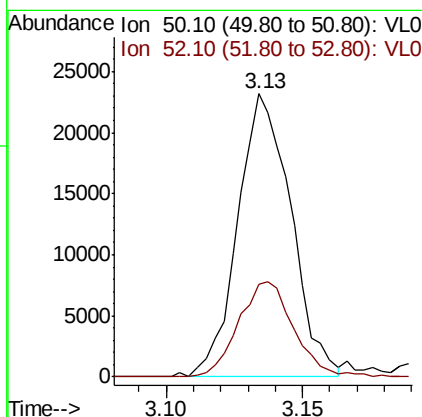
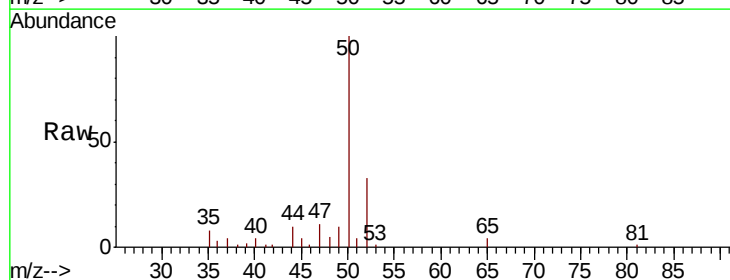
Instrument :  
 MSVOA\_L  
 ClientSampleID :

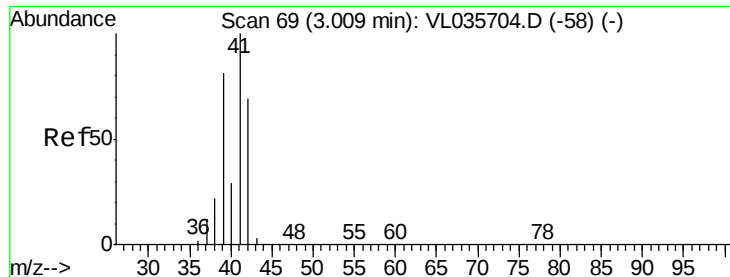
Tot Ion: 51 Resp: 208122  
 Ion Ratio Lower Upper  
 51 100  
 67 4.8 17.8 26.8#



#4  
 Chloromethane  
 Concen: 0.516 ppbv  
 RT: 3.13 min Scan# 108  
 Delta R.T. -0.00 min  
 Lab File: VL035748.D  
 Acq: 8 Oct 2020 16:56

Tgt Ion: 50 Resp: 31373  
 Ion Ratio Lower Upper  
 50 100  
 52 32.6 26.8 40.2





#9

Propene

Concen: 2.720 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.00 min

Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

Instrument :

MSVOA\_L

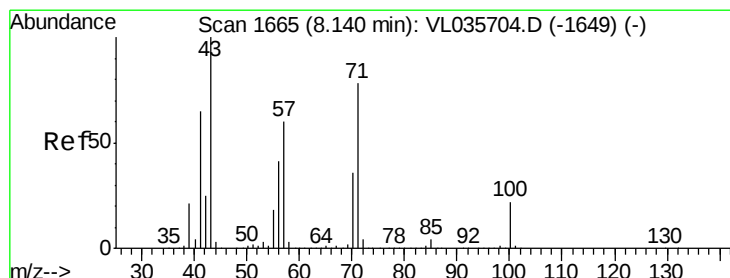
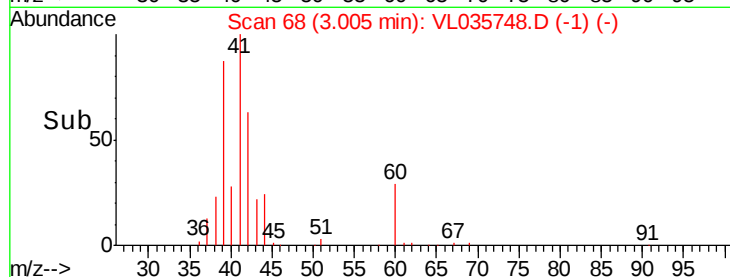
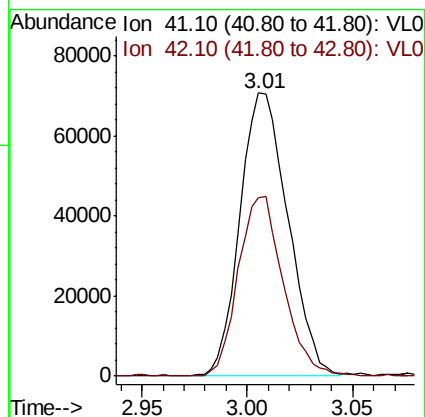
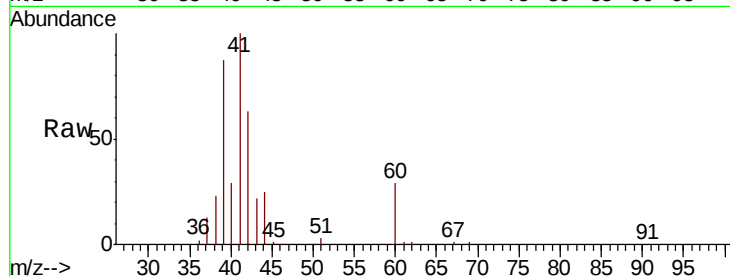
ClientSampleId :

Tot Ion: 41 Resp: 111891

Ion Ratio Lower Upper

41 100

42 59.7 56.2 84.4



#10

Heptane

Concen: 1.186 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. -0.01 min

Lab File: VL035748.D

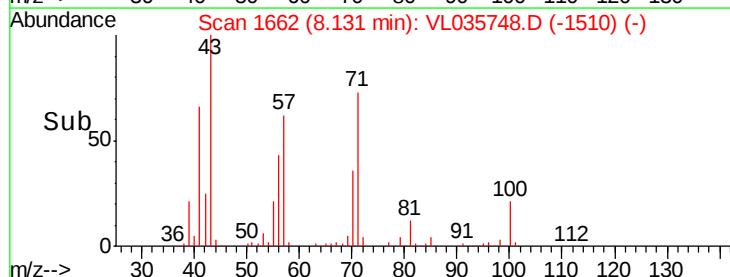
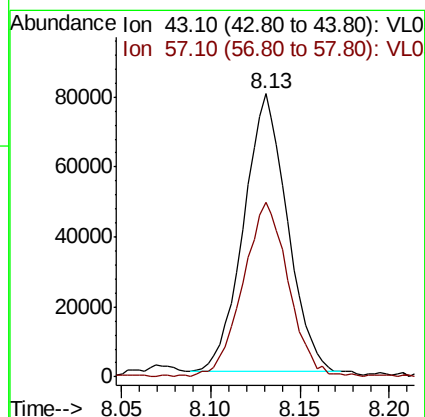
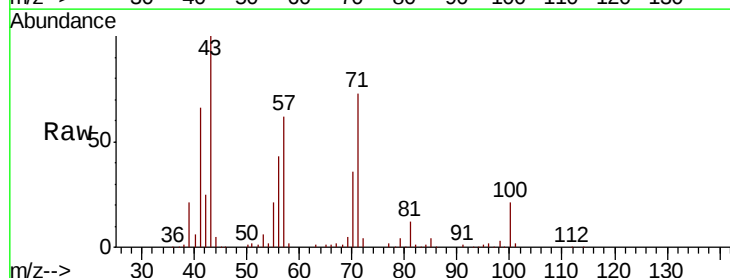
Acq: 8 Oct 2020 16:56

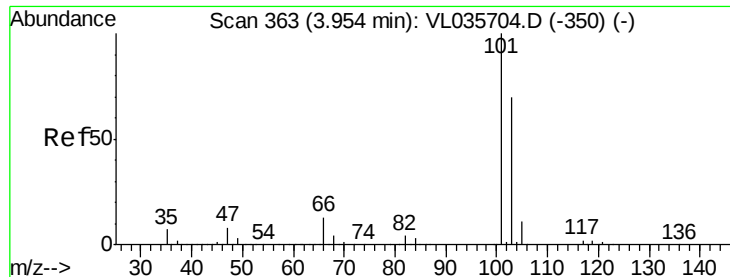
Tgt Ion: 43 Resp: 136038

Ion Ratio Lower Upper

43 100

57 66.5 50.4 75.6





#11

Trichlorofluoromethane

Concen: 0.279 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

Instrument :

MSVOA\_L

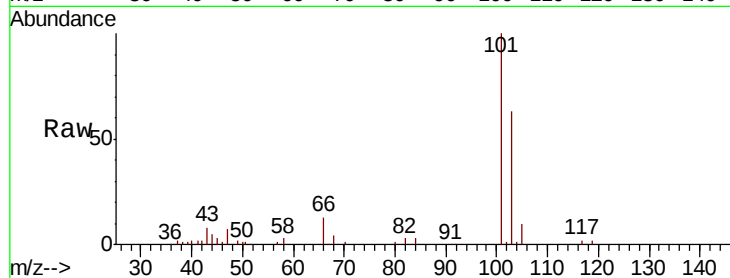
ClientSampleId :

Tot Ion:101 Resp: 68746

Ion Ratio Lower Upper

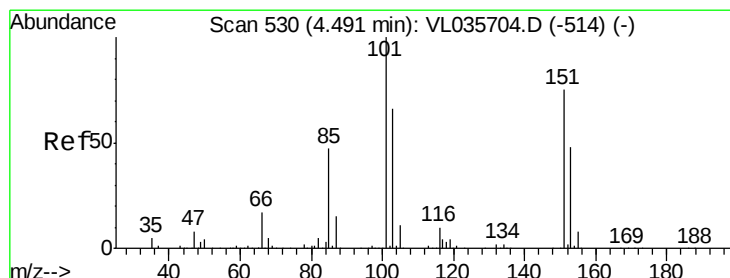
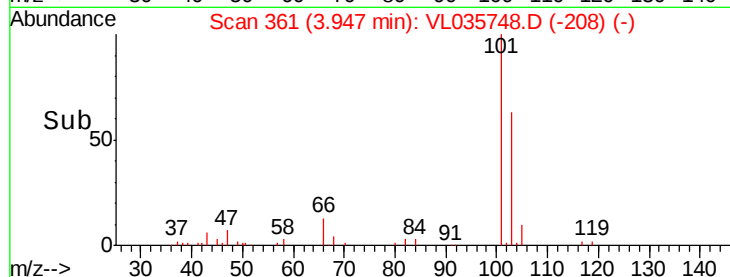
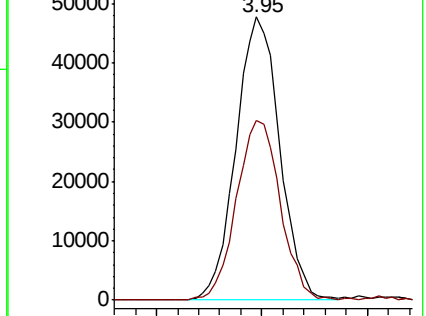
101 100

103 63.3 55.6 83.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.083 ppbv

RT: 4.48 min Scan# 527

Delta R.T. -0.01 min

Lab File: VL035748.D

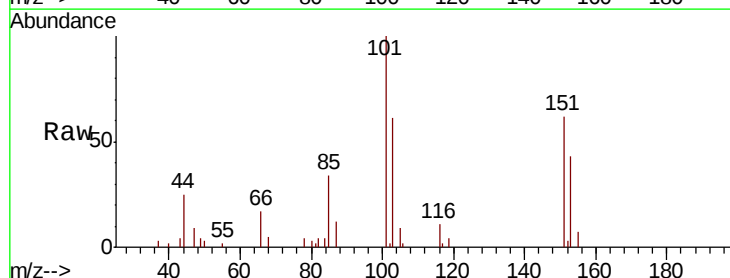
Acq: 8 Oct 2020 16:56

Tgt Ion:101 Resp: 15228

Ion Ratio Lower Upper

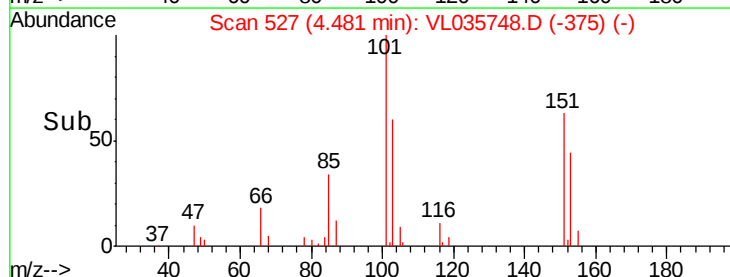
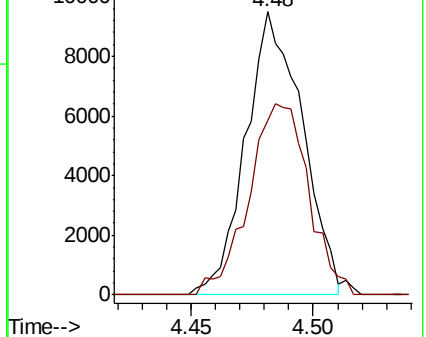
101 100

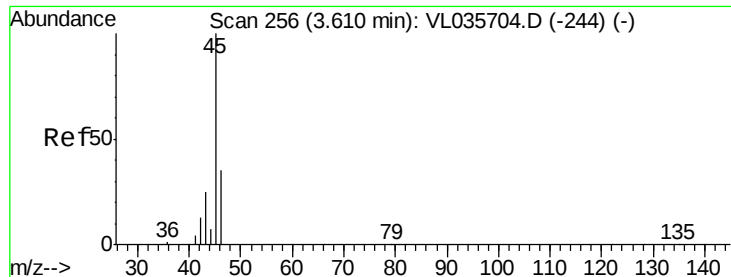
151 71.6 59.1 88.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 40.178 ppbv

RT: 3.60 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

Instrument :

MSVOA\_L

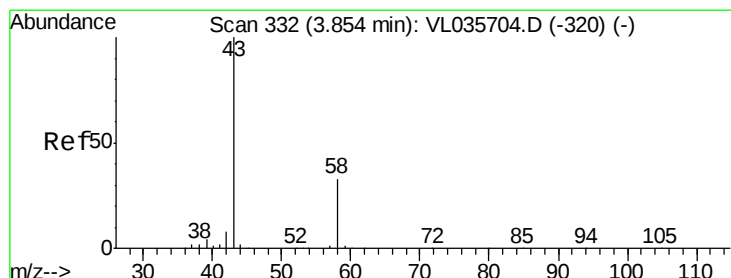
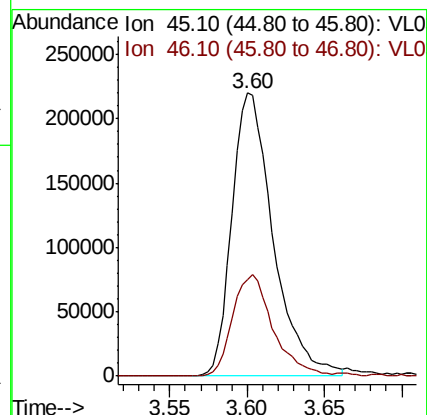
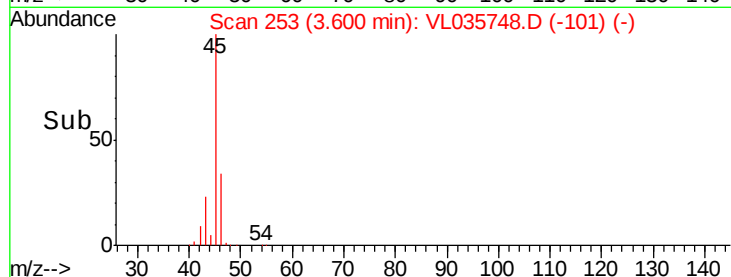
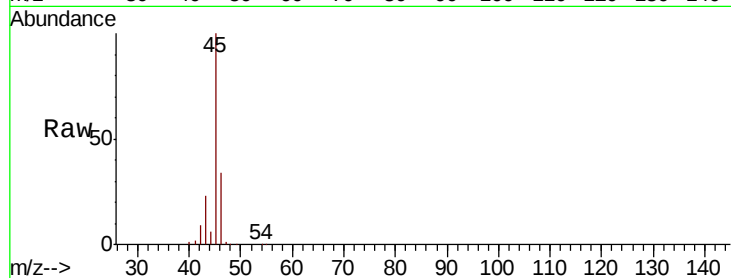
ClientSampleId :

Tot Ion: 45 Resp: 407534

Ion Ratio Lower Upper

45 100

46 36.3 14.7 58.7



#15

Acetone

Concen: 17.216 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL035748.D

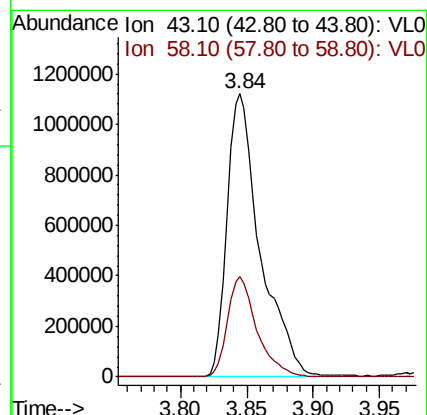
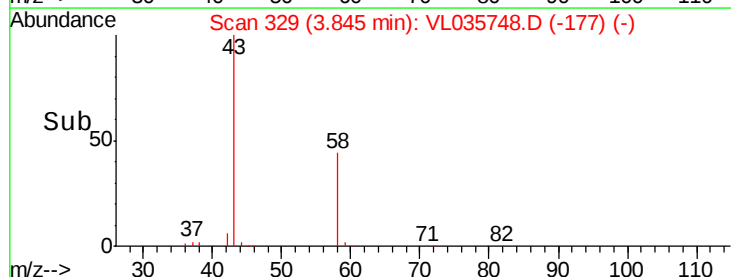
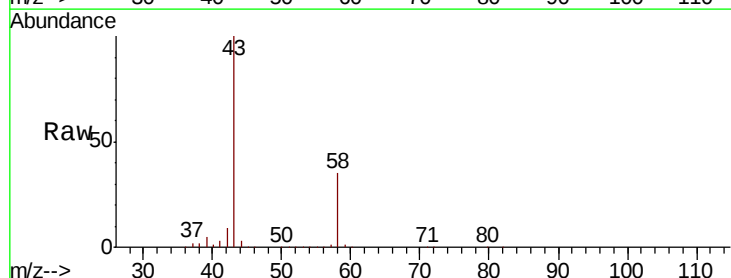
Acq: 8 Oct 2020 16:56

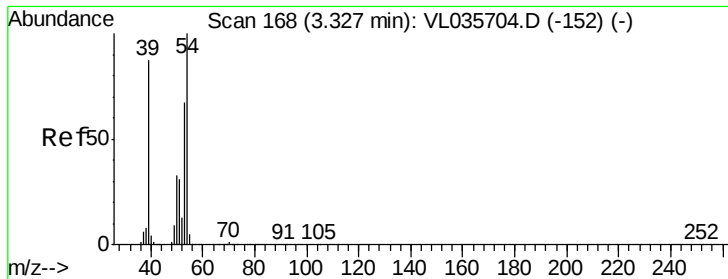
Tgt Ion: 43 Resp: 1950598

Ion Ratio Lower Upper

43 100

58 31.8 27.3 40.9

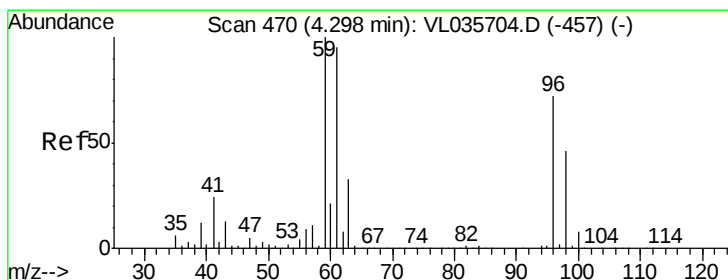
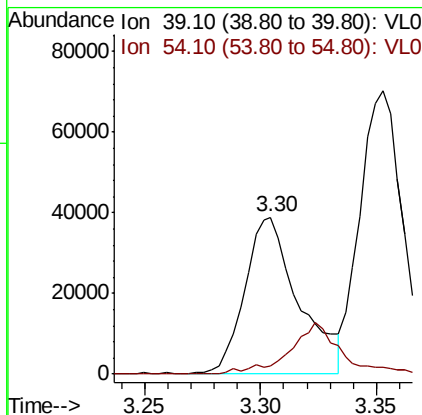
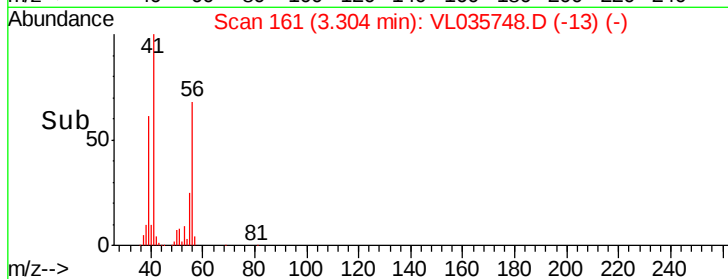
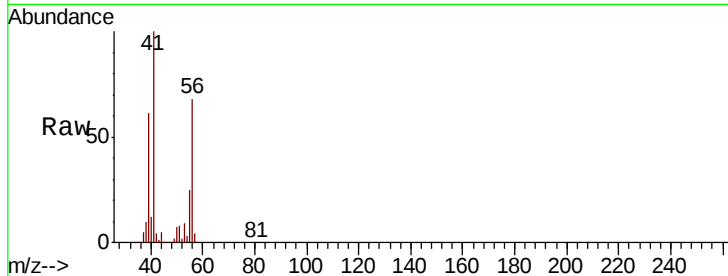




#16  
 1,3-Butadiene  
 Concen: 1.520 ppbv  
 RT: 3.30 min Scan# 161  
 Delta R.T. -0.02 min  
 Lab File: VL035748.D  
 Acq: 8 Oct 2020 16:56

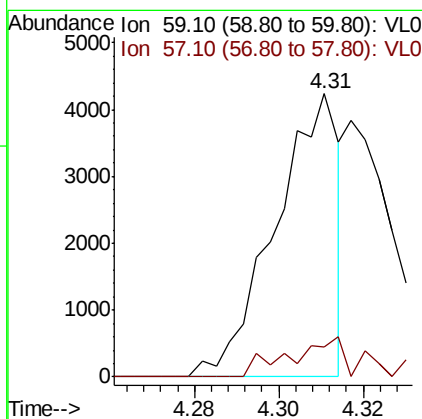
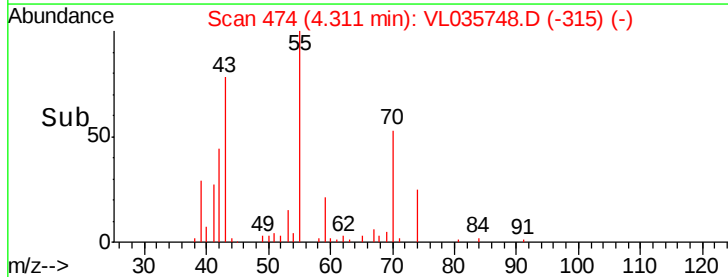
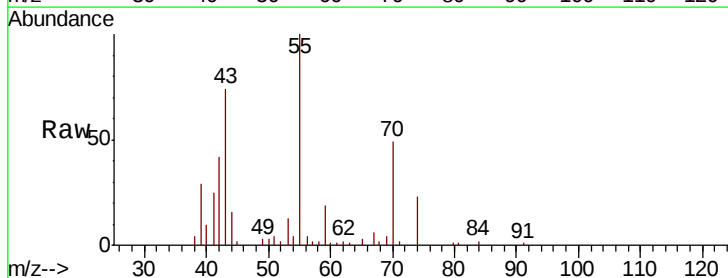
Instrument :  
 MSVOA\_L  
 ClientSampleId :

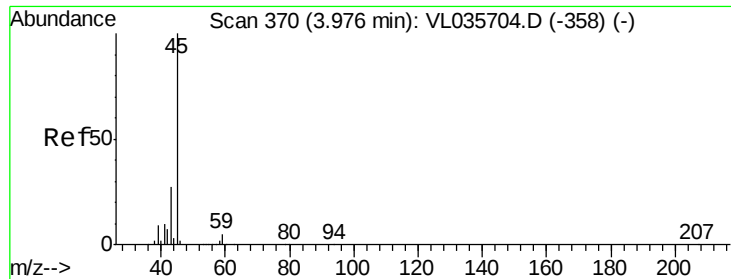
Tot Ion: 39 Resp: 62998  
 Ion Ratio Lower Upper  
 39 100  
 54 31.6 87.4 131.0#



#17  
 tert-Butyl alcohol  
 Concen: 0.036 ppbv  
 RT: 4.31 min Scan# 474  
 Delta R.T. 0.01 min  
 Lab File: VL035748.D  
 Acq: 8 Oct 2020 16:56

Tgt Ion: 59 Resp: 4455  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.5 12.7#





#19

Isopropyl Alcohol

Concen: 1.400 ppbv

RT: 3.97 min Scan# 369

Delta R.T. -0.00 min

Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

Instrument :

MSVOA\_L

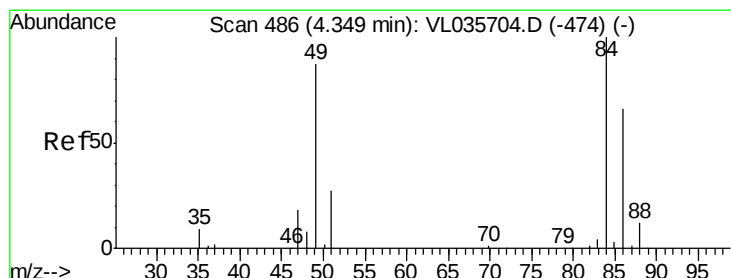
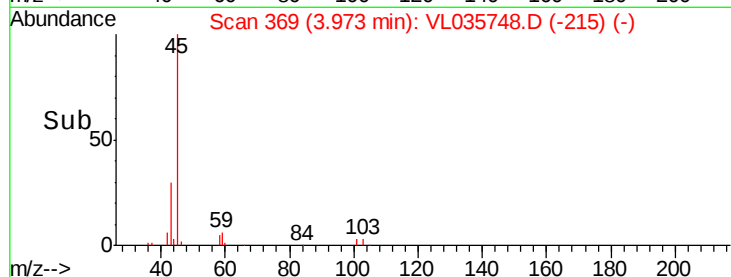
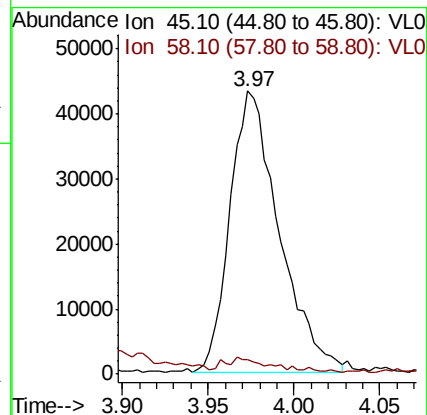
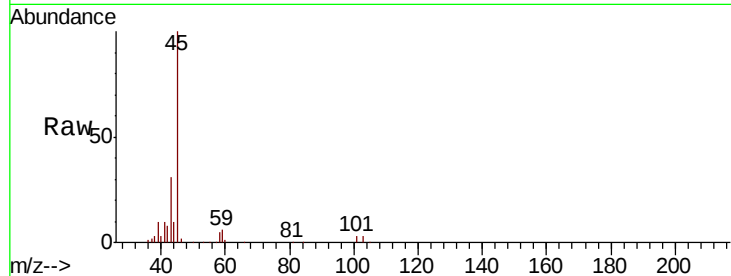
ClientSampleId :

Tot Ion: 45 Resp: 86267

Ion Ratio Lower Upper

45 100

58 718.5 2.8 4.2#



#20

Methylene Chloride

Concen: 1.786 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.01 min

Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

Tgt Ion: 84 Resp: 148656

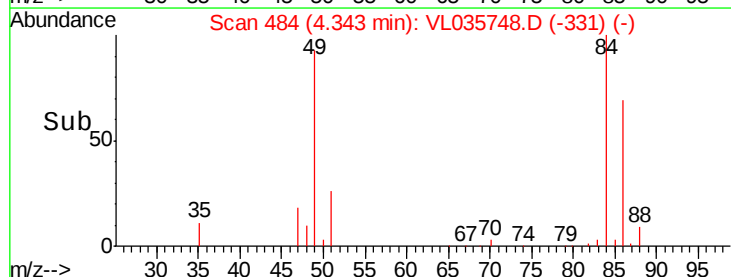
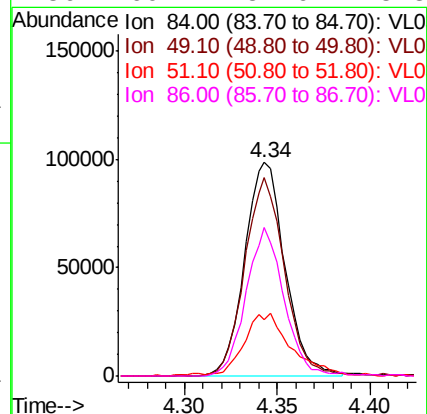
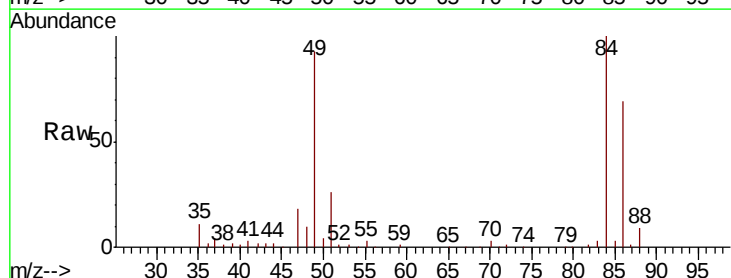
Ion Ratio Lower Upper

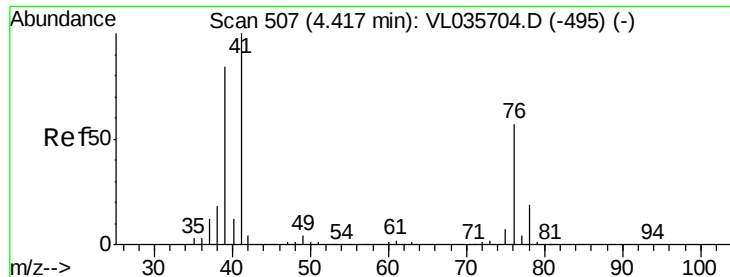
84 100

49 92.9 69.8 104.6

51 25.0 21.8 32.8

86 69.4 52.6 78.8





#21

Allvl Chloride

Concen: 0.492 ppbv

RT: 4.37 min Scan# 491

Delta R.T. -0.05 min

Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

Instrument :

MSVOA\_L

ClientSampleId :

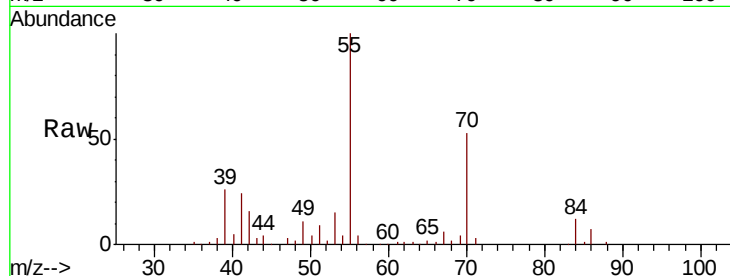
Tot Ion: 41 Resp: 27045

Ion Ratio Lower Upper

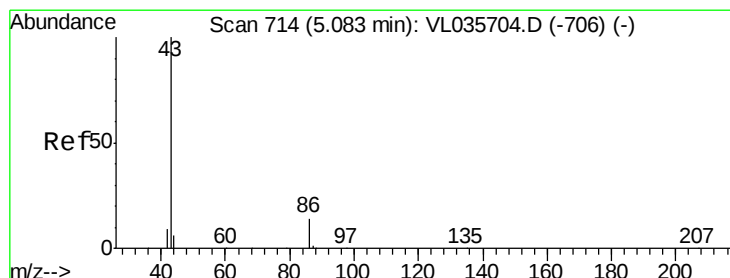
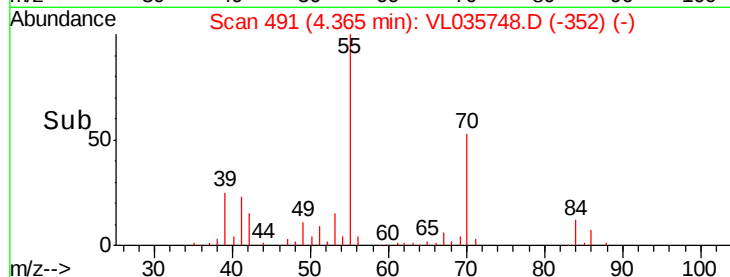
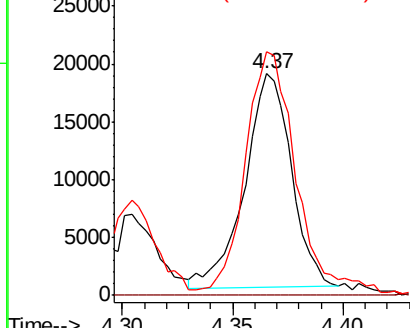
41 100

76 0.0 44.8 67.2#

39 120.9 68.4 102.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0  
Ion 76.10 (75.80 to 76.80): VL0  
Ion 39.10 (38.80 to 39.80): VL0



#23

Vinyl Acetate

Concen: 1.602 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.02 min

Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

Tgt Ion: 43 Resp: 222363

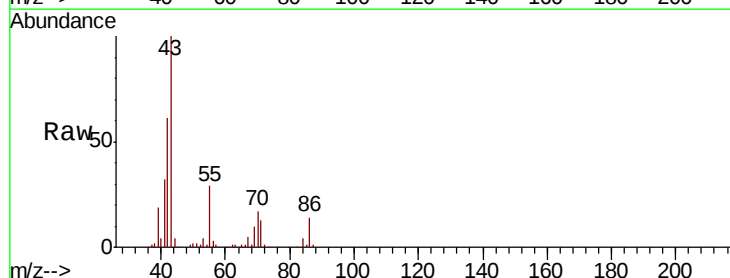
Ion Ratio Lower Upper

43 100

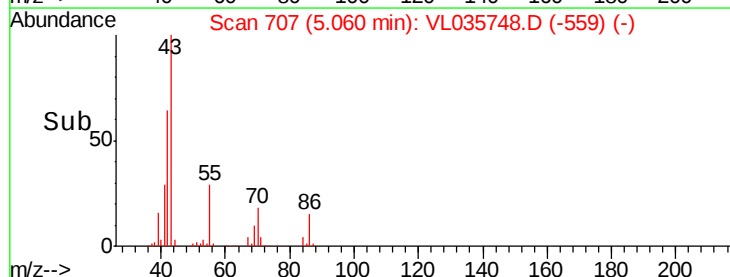
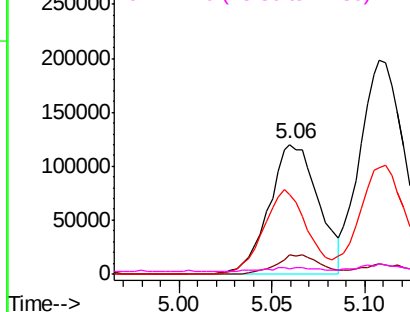
86 14.3 9.7 14.5

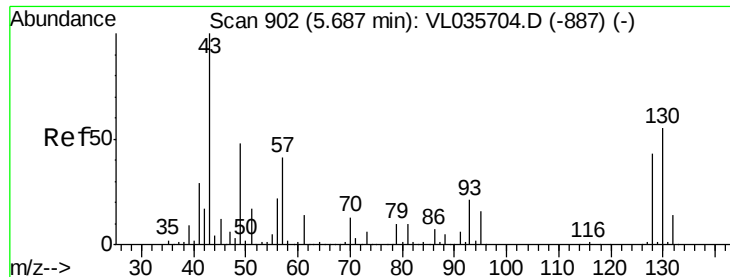
42 61.5 7.9 11.9#

44 1.7 4.8 7.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 86.10 (85.80 to 86.80): VL0  
Ion 42.10 (41.80 to 42.80): VL0  
Ion 44.10 (43.80 to 44.80): VL0





#25

Ethyl Acetate

Concen: 1.263 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.00 min

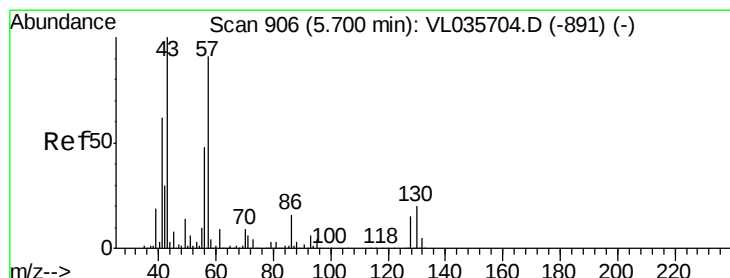
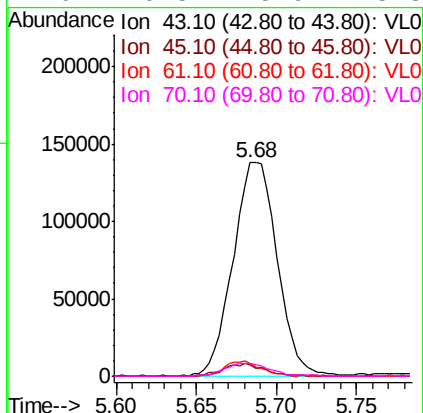
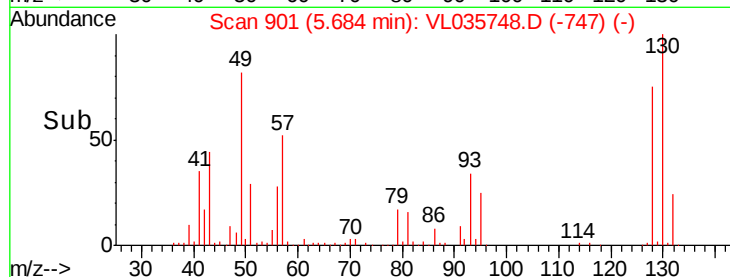
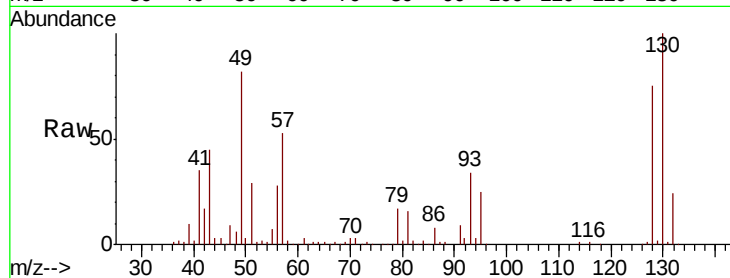
Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion: 43 Resp: 257562

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 45  | 6.0   | 8.6   | 12.8# |
| 61  | 6.1   | 10.4  | 15.6# |
| 70  | 6.5   | 8.9   | 13.3# |



#26

Hexane

Concen: 2.730 ppbv

RT: 5.69 min Scan# 903

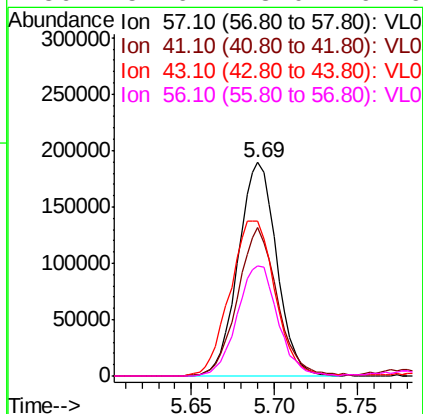
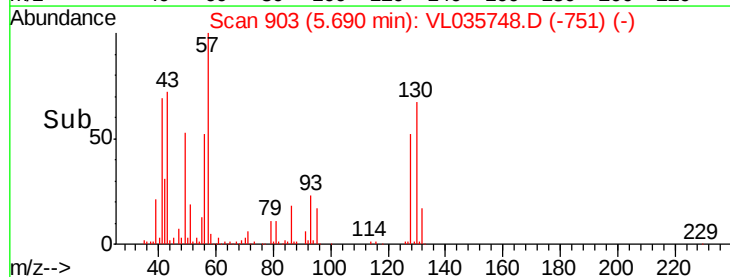
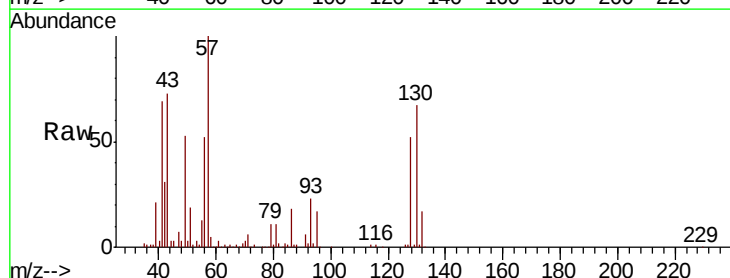
Delta R.T. -0.01 min

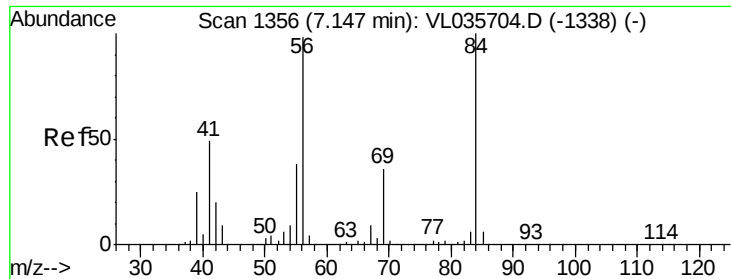
Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

Tgt Ion: 57 Resp: 305009

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 57  | 100   |       |        |
| 41  | 72.3  | 57.9  | 86.9   |
| 43  | 85.1  | 143.8 | 215.6# |
| 56  | 54.6  | 43.0  | 64.6   |

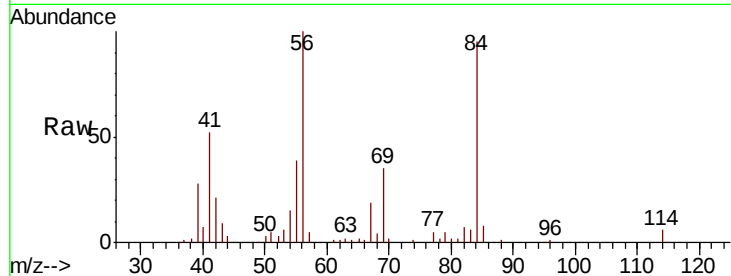




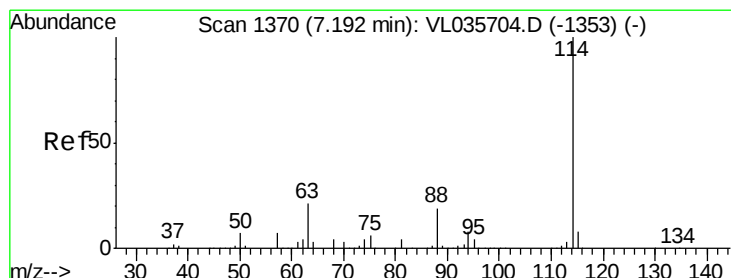
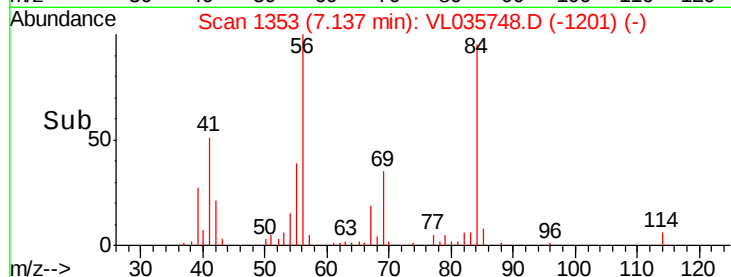
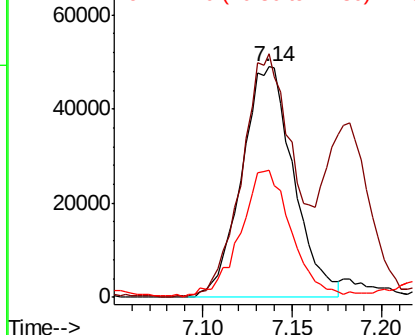
#30  
Cvclohexane  
Concen: 0.904 ppbv  
RT: 7.14 min Scan# 1353  
Delta R.T. -0.01 min  
Lab File: VL035748.D  
Acq: 8 Oct 2020 16:56

Instrument :  
MSVOA\_L  
ClientSampled :

Tot Ion: 84 Resp: 99634  
Ion Ratio Lower Upper  
84 100  
56 106.0 84.6 127.0  
41 52.2 41.1 61.7

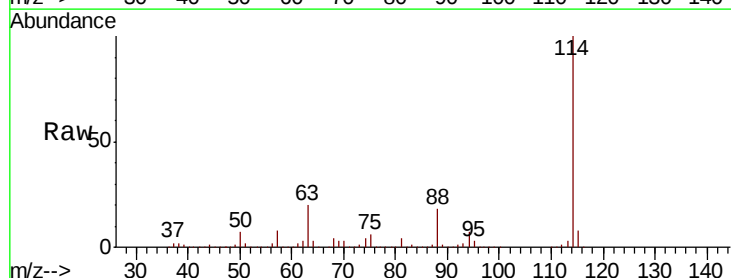


Abundance Ion 84.20 (83.90 to 84.90): VL0  
Ion 56.10 (55.80 to 56.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0

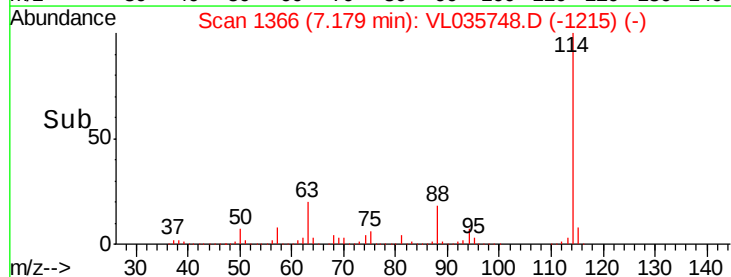
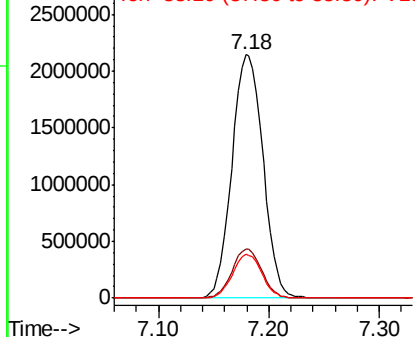


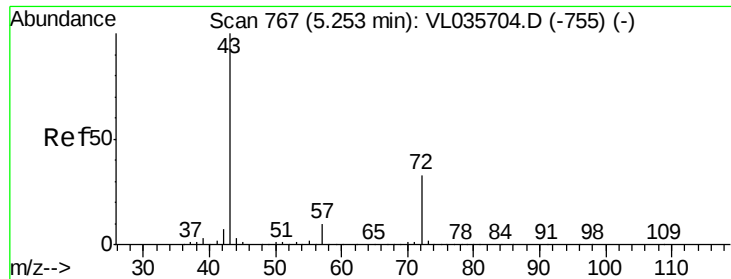
#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 7.18 min Scan# 1366  
Delta R.T. -0.01 min  
Lab File: VL035748.D  
Acq: 8 Oct 2020 16:56

Tgt Ion: 114 Resp: 4191387  
Ion Ratio Lower Upper  
114 100  
63 19.4 16.1 24.1  
88 17.1 14.1 21.1



Abundance Ion 114.10 (113.80 to 114.80): V  
Ion 63.10 (62.80 to 63.80): VL0  
Ion 88.10 (87.80 to 88.80): VL0

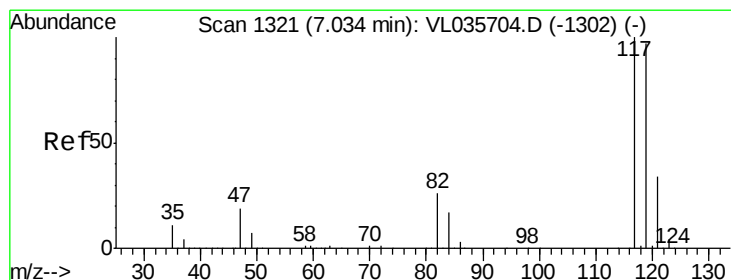
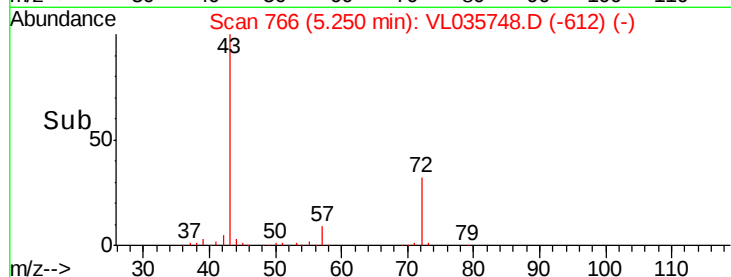
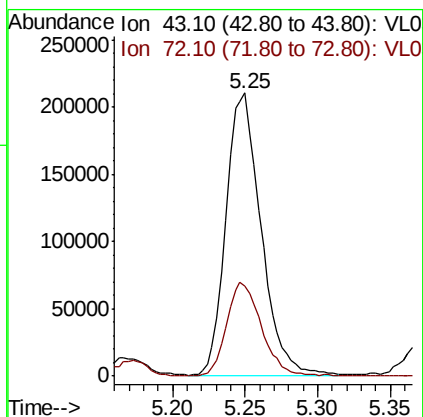
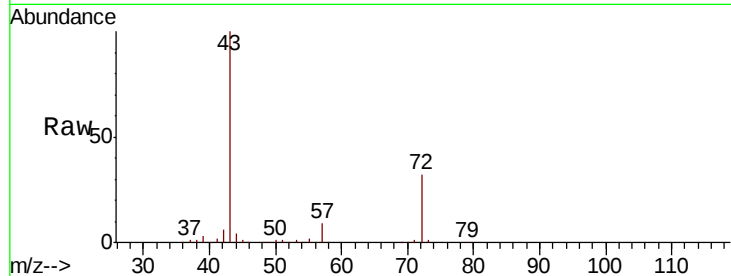




#34  
2-Butanone  
Concen: 2.530 ppbv  
RT: 5.25 min Scan# 766  
Delta R.T. -0.00 min  
Lab File: VL035748.D  
Acq: 8 Oct 2020 16:56

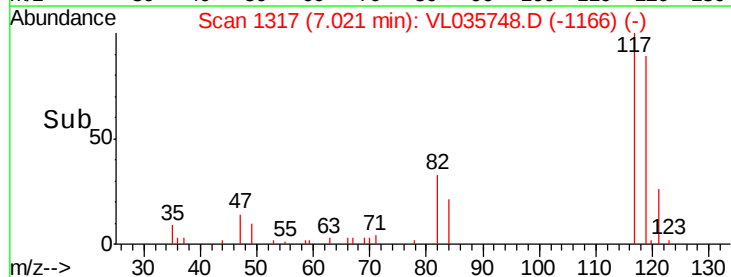
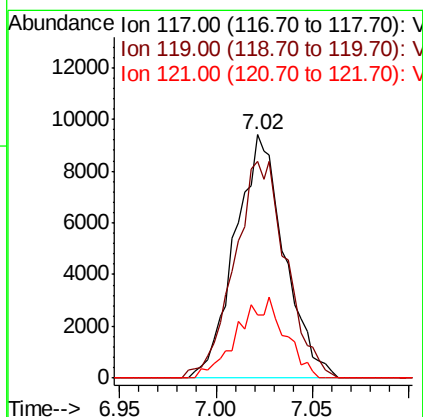
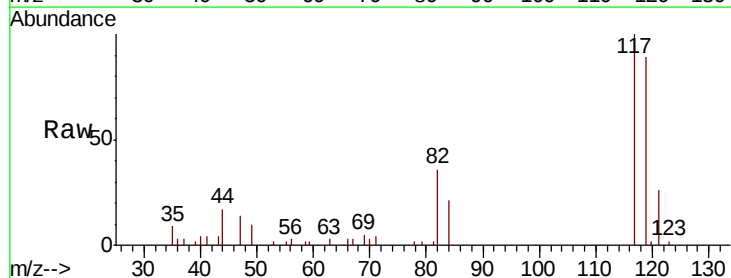
Instrument :  
MSVOA\_L  
ClientSampleId :

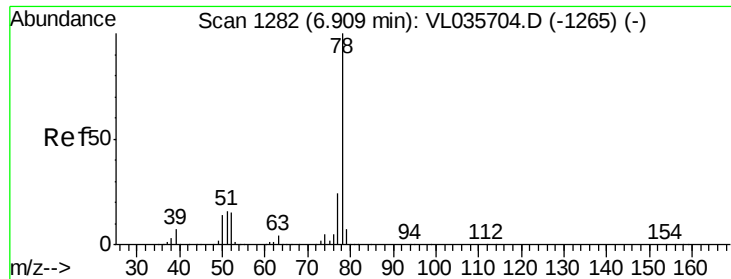
Tot Ion: 43 Resp: 350800  
Ion Ratio Lower Upper  
43 100  
72 33.2 26.1 39.1



#35  
Carbon Tetrachloride  
Concen: 0.076 ppbv  
RT: 7.02 min Scan# 1317  
Delta R.T. -0.01 min  
Lab File: VL035748.D  
Acq: 8 Oct 2020 16:56

Tgt Ion: 117 Resp: 16653  
Ion Ratio Lower Upper  
117 100  
119 89.1 77.7 116.5  
121 26.0 26.9 40.3#

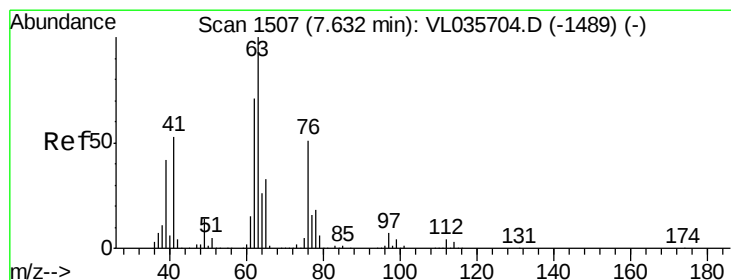
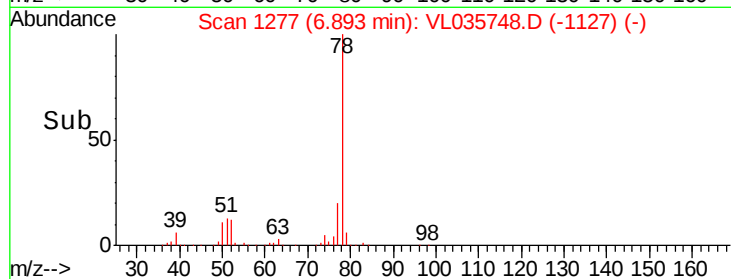
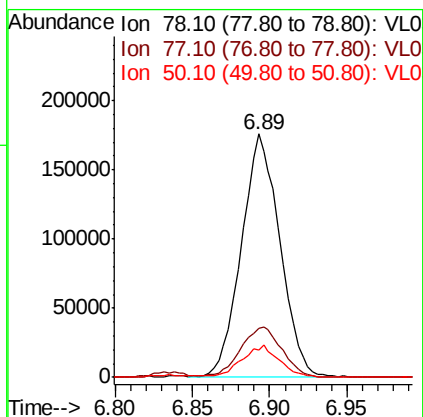
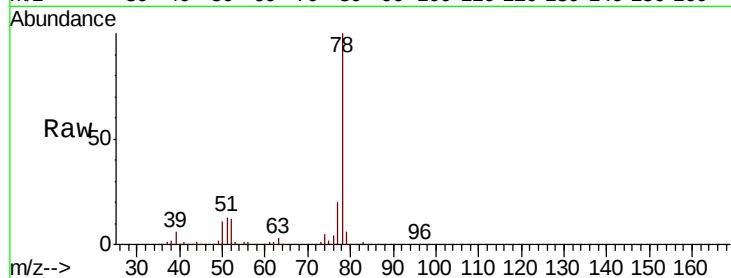




#36  
Benzene  
Concen: 1.109 ppbv  
RT: 6.89 min Scan# 1277  
Delta R.T. -0.02 min  
Lab File: VL035748.D  
Acq: 8 Oct 2020 16:56

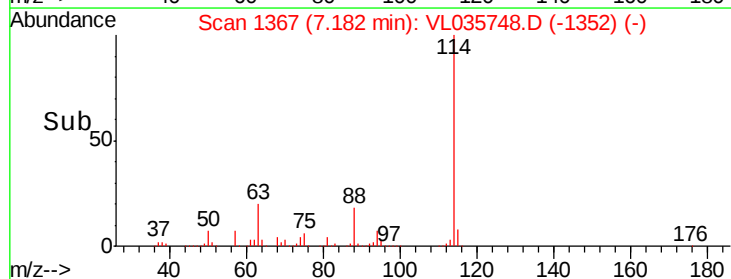
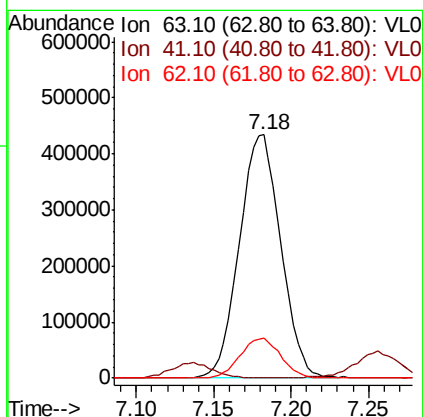
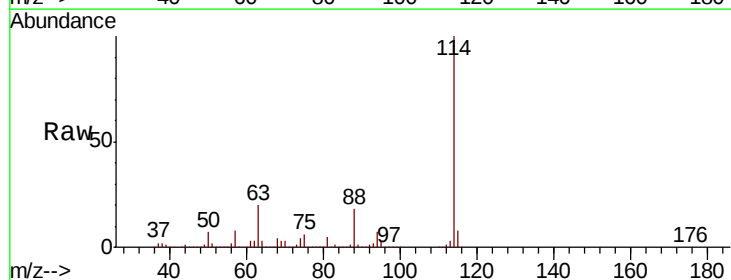
Instrument :  
MSVOA\_L  
ClientSampleId :

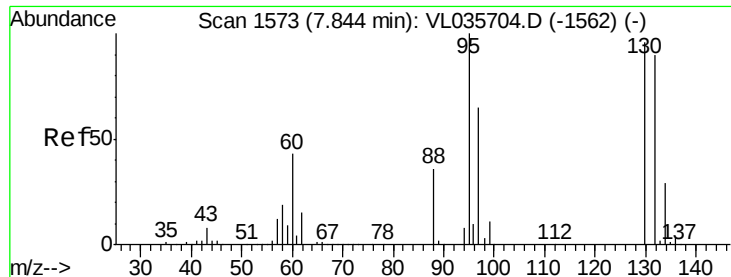
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 20.2  | 19.3  | 28.9  |
| 50      | 11.1  | 11.6  | 17.4# |



#39  
1,2-Dichloropropane  
Concen: 8.122 ppbv  
RT: 7.18 min Scan# 1367  
Delta R.T. -0.45 min  
Lab File: VL035748.D  
Acq: 8 Oct 2020 16:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 0.0   | 42.6  | 63.8# |
| 62      | 16.6  | 56.5  | 84.7# |





#40

1,4-Dioxane

Concen: 0.054 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. 0.03 min

Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

Instrument :

MSVOA\_L

ClientSampleId :

Tot Ion: 88 Resp: 2457

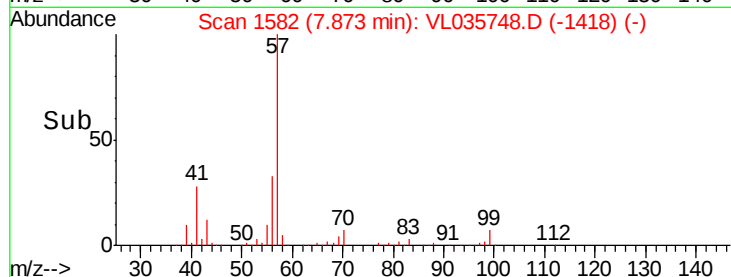
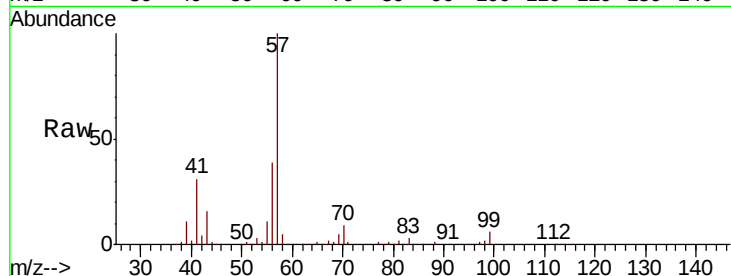
Ion Ratio Lower Upper

88 100

58 0.0 76.2 114.4#

43 872.6 123.4 185.2#

57 21819.5 652.5 978.7#



Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

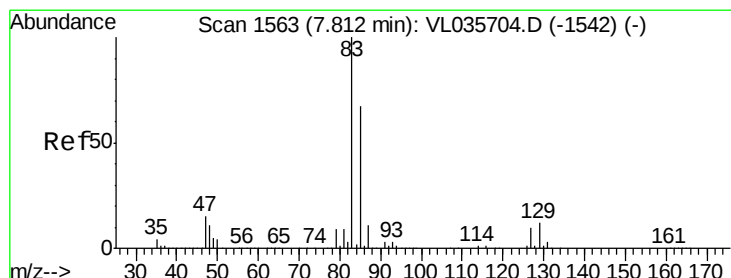
300000

200000

100000

0

Time-->



#42

Bromodichloromethane

Concen: 0.068 ppbv

RT: 7.80 min Scan# 1560

Delta R.T. -0.01 min

Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

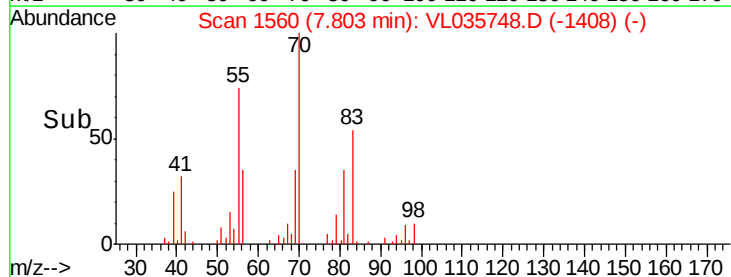
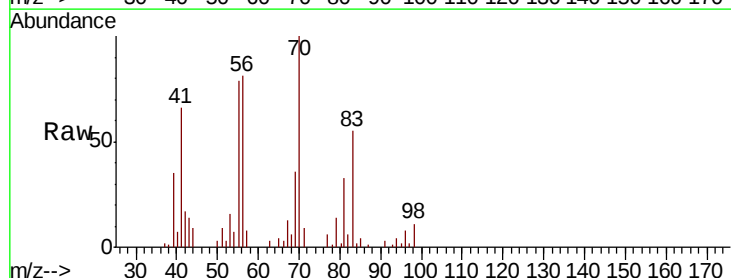
Tgt Ion: 83 Resp: 15658

Ion Ratio Lower Upper

83 100

85 7.4 53.4 80.0#

127 0.0 7.8 11.6#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

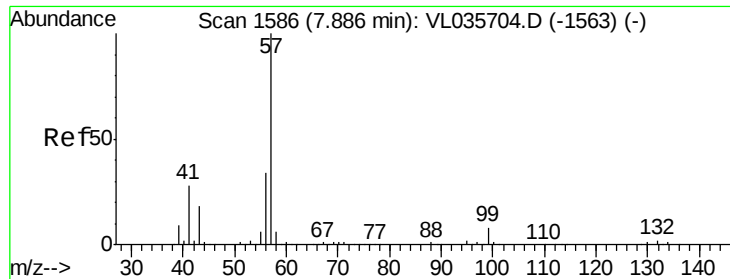
Ion 126.90 (126.60 to 127.60): V

10000

5000

0

Time-->



#44

2,2,4-Trimethylpentane

Concen: 1.350 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. -0.01 min

Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

Instrument :

MSVOA\_L

ClientSampleId :

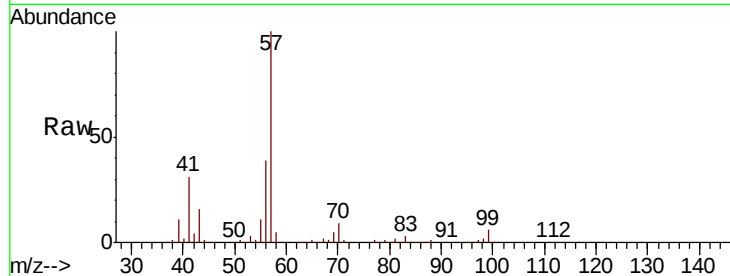
Tot Ion: 57 Resp: 529075

Ion Ratio Lower Upper

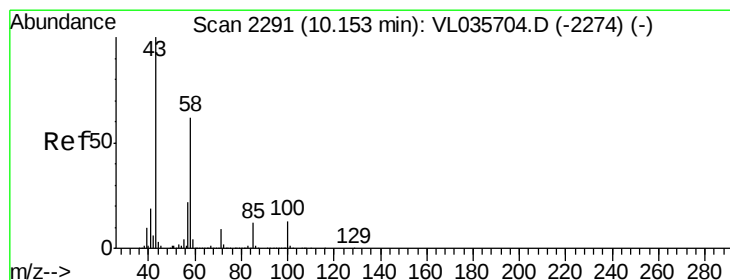
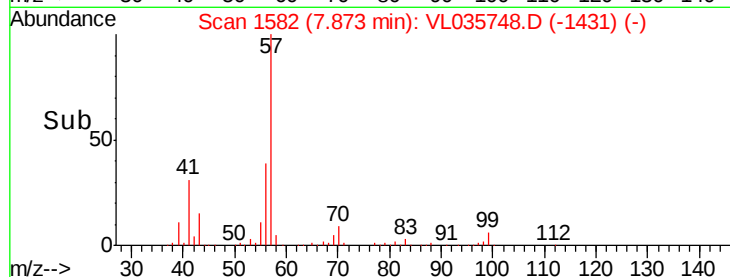
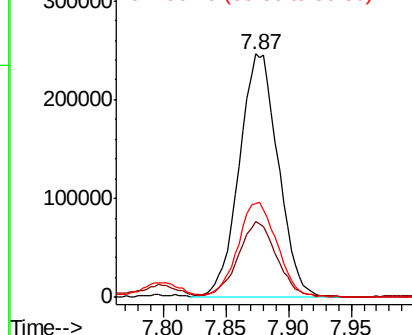
57 100

41 31.1 21.2 31.8

56 39.5 25.8 38.8#



Abundance Ion 57.10 (56.80 to 57.80): VL0  
Ion 41.10 (40.80 to 41.80): VL0  
Ion 56.10 (55.80 to 56.80): VL0



#51

2-Hexanone

Concen: 0.162 ppbv

RT: 10.12 min Scan# 2282

Delta R.T. -0.03 min

Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

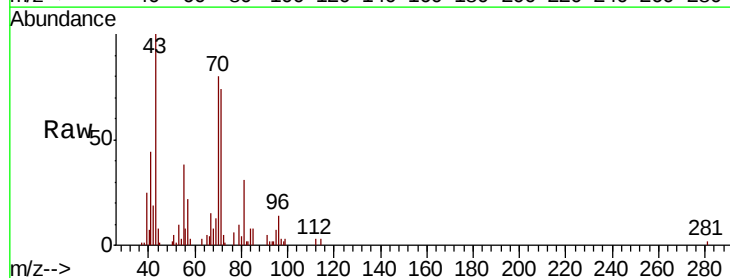
Tgt Ion: 43 Resp: 26377

Ion Ratio Lower Upper

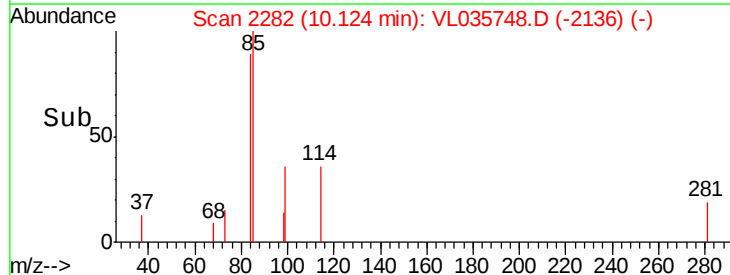
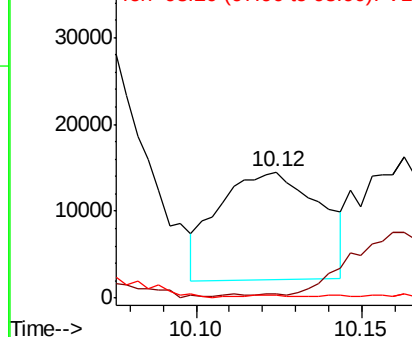
43 100

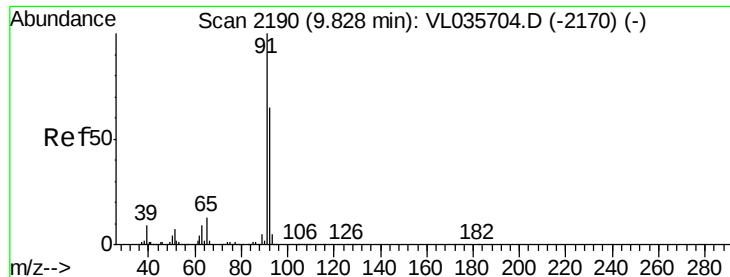
58 0.0 48.7 73.1#

98 0.0 0.7 1.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0  
Ion 58.10 (57.80 to 58.80): VL0  
Ion 98.20 (97.90 to 98.90): VL0





#53

Toluene

Concen: 5.692 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.01 min

Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

Instrument :

MSVOA\_L

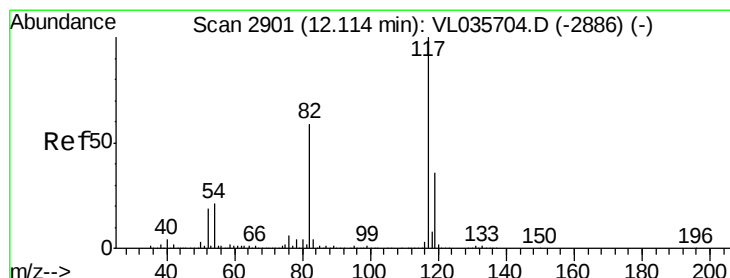
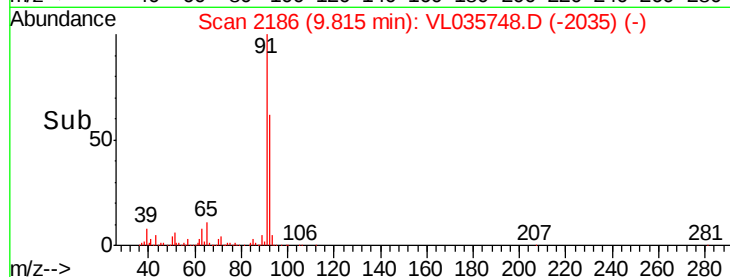
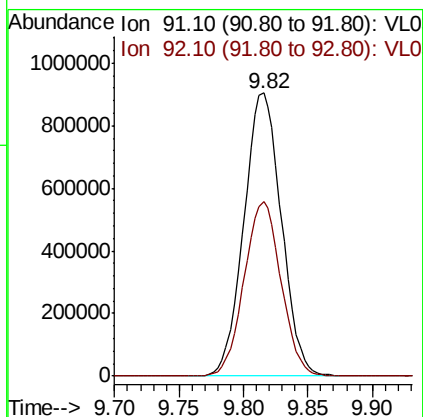
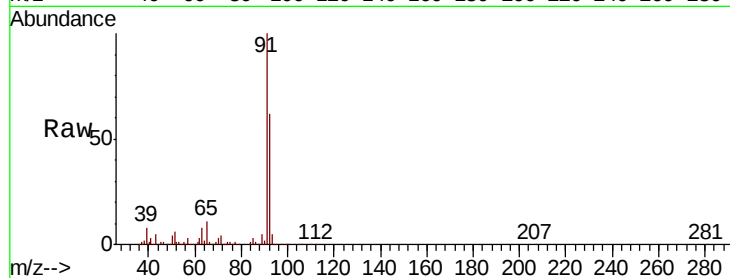
ClientSampleId :

Tot Ion: 91 Resp: 1833122

Ion Ratio Lower Upper

91 100

92 61.0 50.0 75.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. -0.02 min

Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

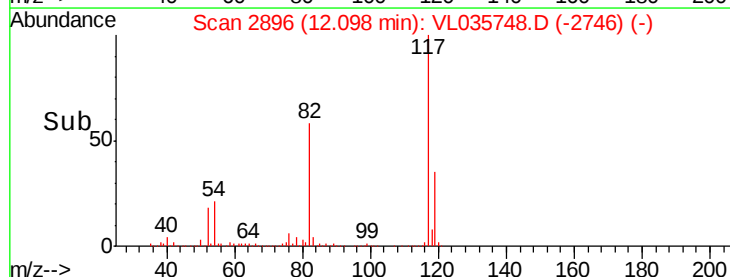
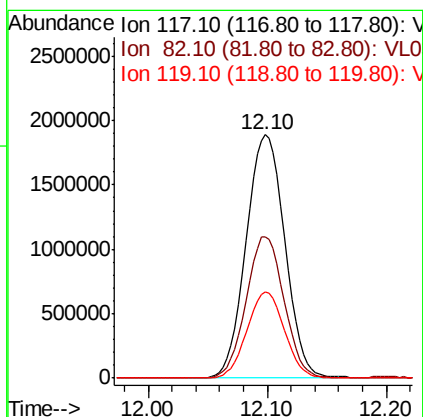
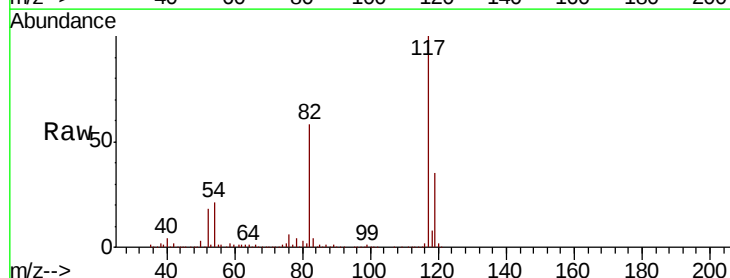
Tgt Ion: 117 Resp: 4259005

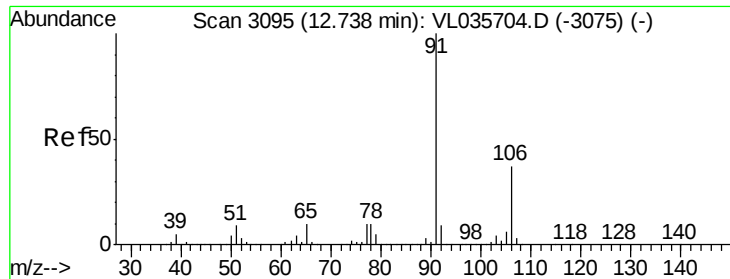
Ion Ratio Lower Upper

117 100

82 57.0 46.1 69.1

119 34.5 28.0 42.0

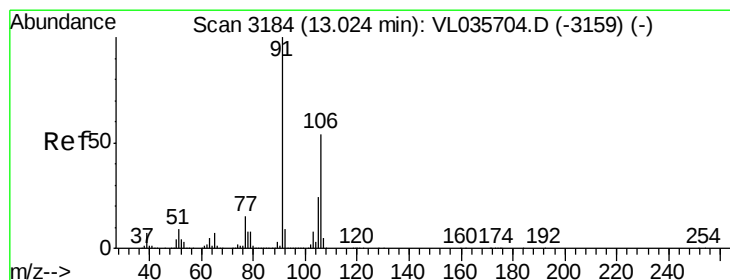
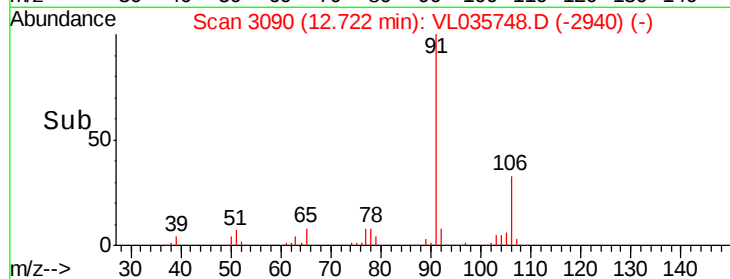
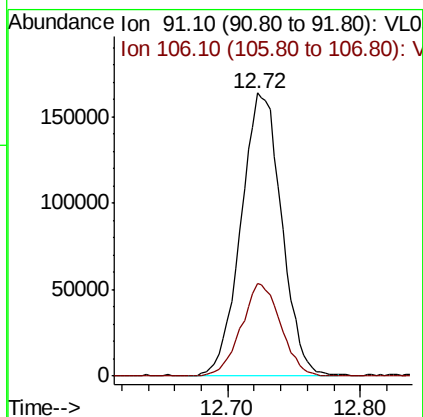
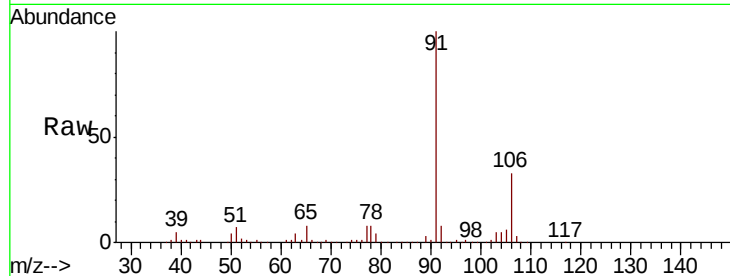




#58  
Ethyl Benzene  
Concen: 0.811 ppbv  
RT: 12.72 min Scan# 3090  
Delta R.T. -0.02 min  
Lab File: VL035748.D  
Acq: 8 Oct 2020 16:56

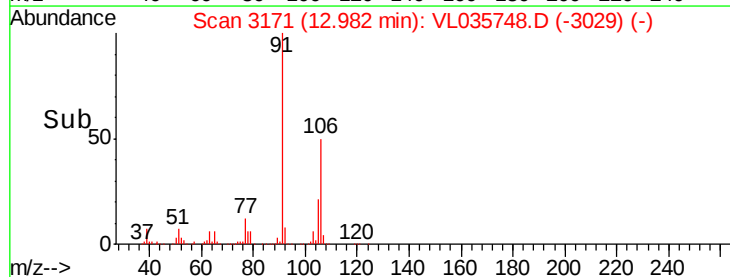
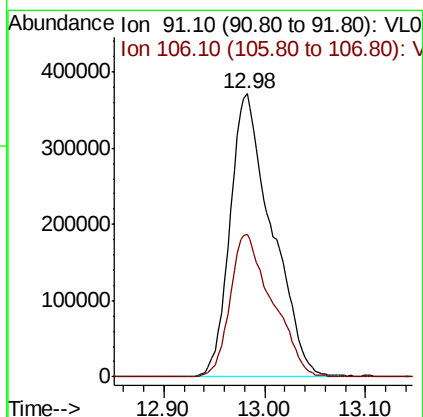
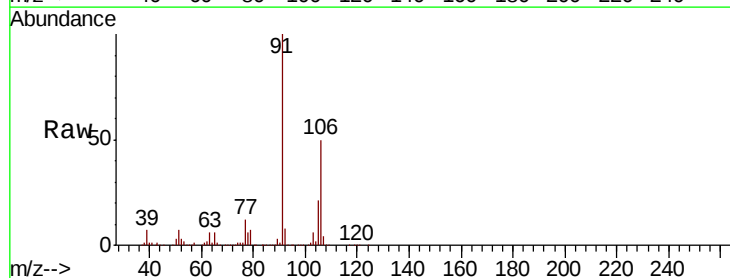
Instrument :  
MSVOA\_L  
ClientSampleId :

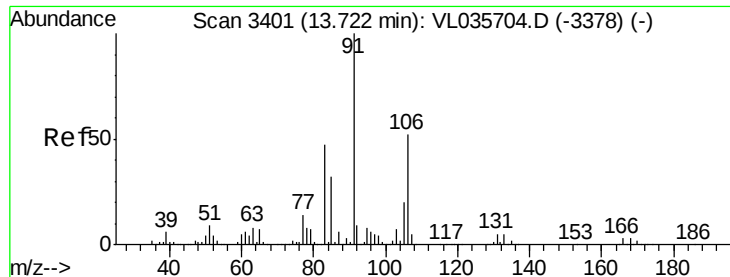
Tot Ion: 91 Resp: 346776  
Ion Ratio Lower Upper  
91 100  
106 32.8 29.7 44.5



#59  
m/p-Xylene  
Concen: 2.861 ppbv  
RT: 12.98 min Scan# 3171  
Delta R.T. -0.04 min  
Lab File: VL035748.D  
Acq: 8 Oct 2020 16:56

Tgt Ion: 91 Resp: 1068140  
Ion Ratio Lower Upper  
91 100  
106 51.1 41.4 62.0

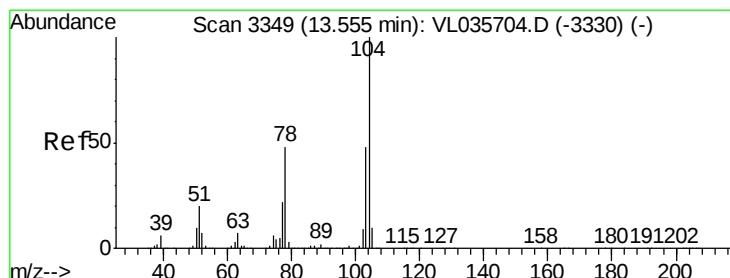
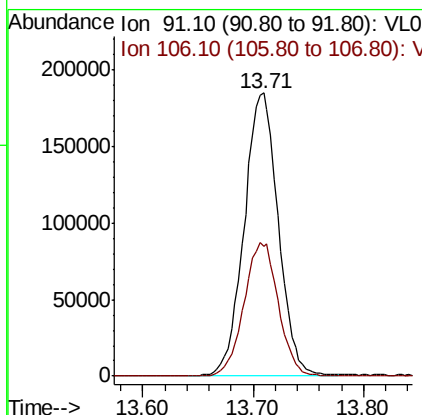
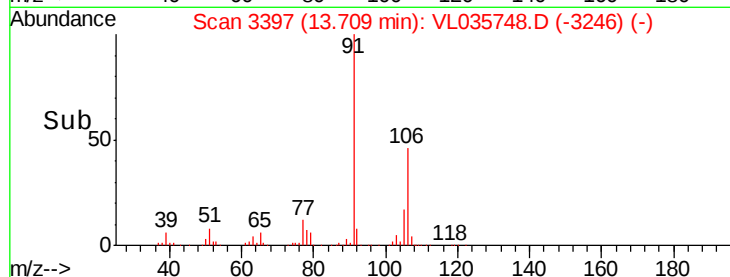
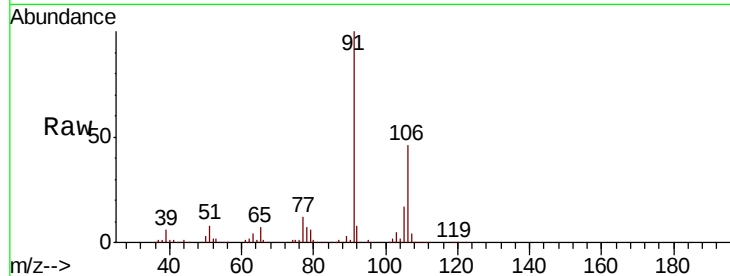




#60  
o-Xylene  
Concen: 1.048 ppbv  
RT: 13.71 min Scan# 3397  
Delta R.T. -0.01 min  
Lab File: VL035748.D  
Acq: 8 Oct 2020 16:56

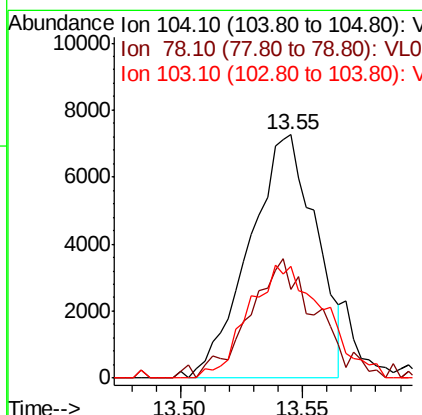
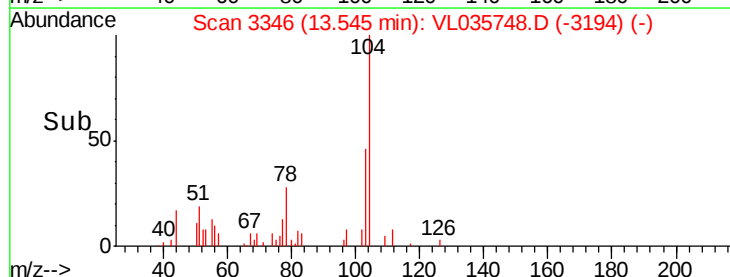
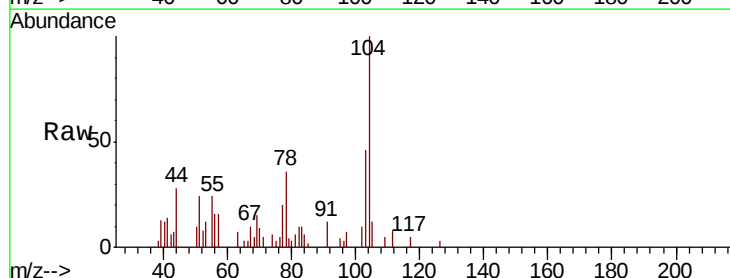
Instrument :  
MSVOA\_L  
ClientSampled :

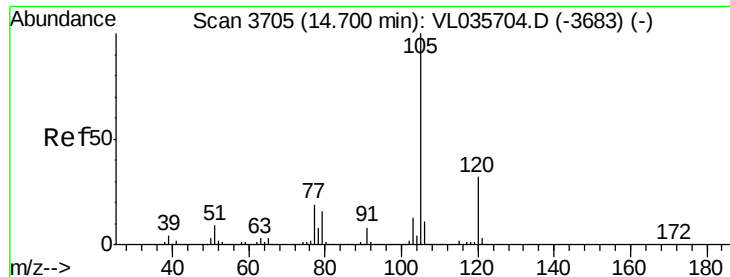
Tot Ion: 91 Resp: 395638  
Ion Ratio Lower Upper  
91 100  
106 47.7 25.0 75.0



#61  
Styrene  
Concen: 0.053 ppbv  
RT: 13.55 min Scan# 3346  
Delta R.T. -0.01 min  
Lab File: VL035748.D  
Acq: 8 Oct 2020 16:56

Tgt Ion: 104 Resp: 13764  
Ion Ratio Lower Upper  
104 100  
78 51.5 37.2 55.8  
103 52.8 38.2 57.2





#62

Isopropylbenzene

Concen: 0.063 ppbv

RT: 14.69 min Scan# 3701

Delta R.T. -0.01 min

Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

Instrument :

MSVOA\_L

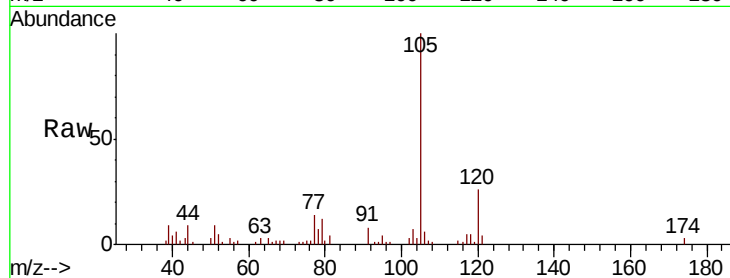
ClientSampleId :

Tot Ion:105 Resp: 36787

Ion Ratio Lower Upper

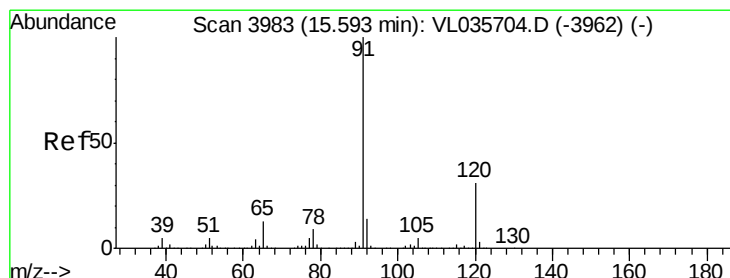
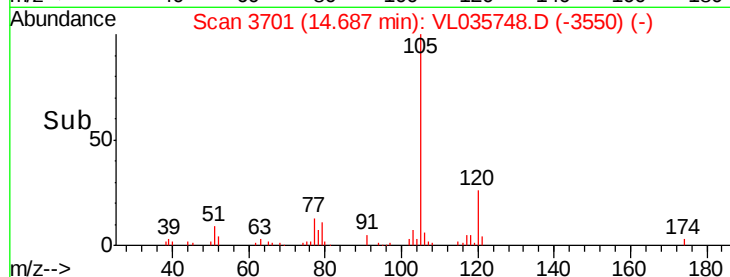
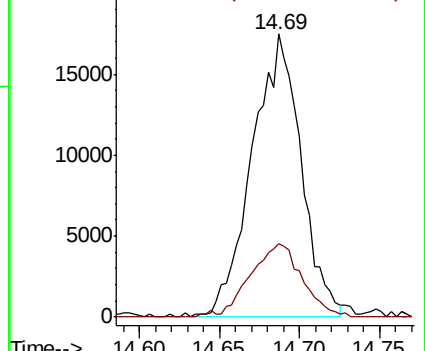
105 100

120 27.6 24.1 36.1



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#64

n-propylbenzene

Concen: 0.091 ppbv

RT: 15.58 min Scan# 3978

Delta R.T. -0.02 min

Lab File: VL035748.D

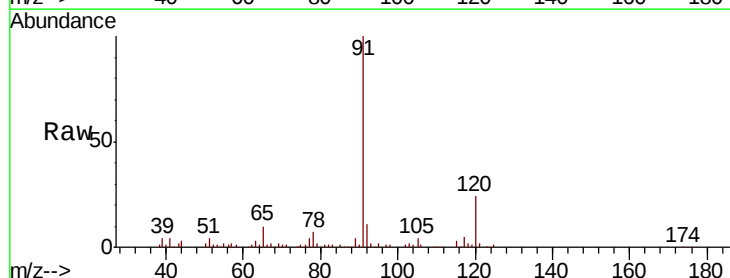
Acq: 8 Oct 2020 16:56

Tgt Ion:120 Resp: 15619

Ion Ratio Lower Upper

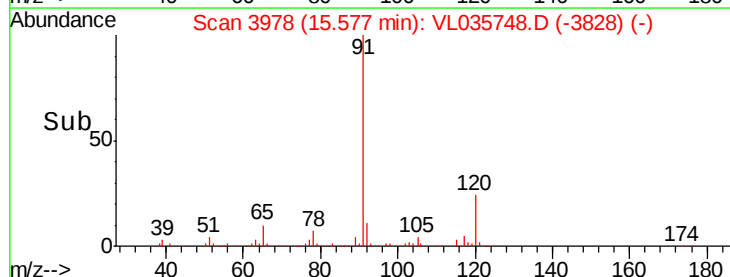
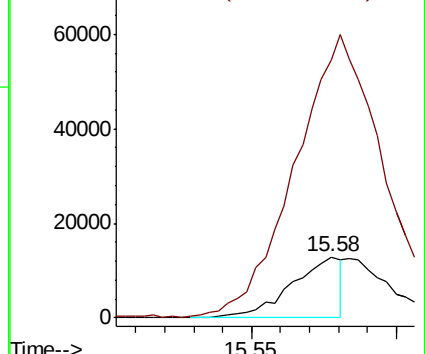
120 100

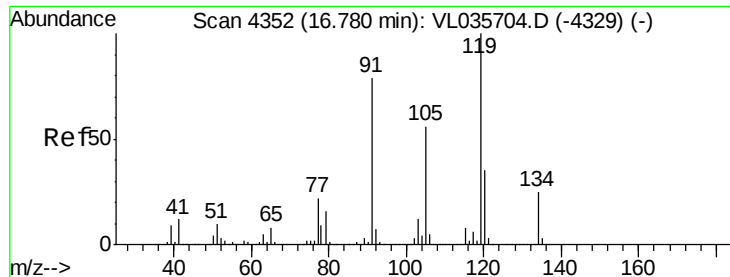
91 0.0 300.4 450.6#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

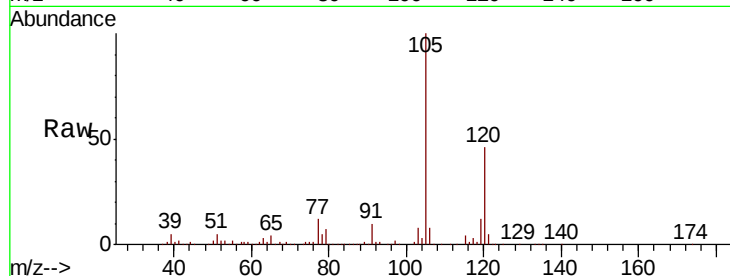




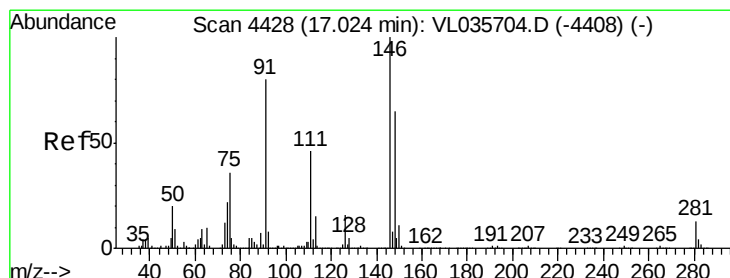
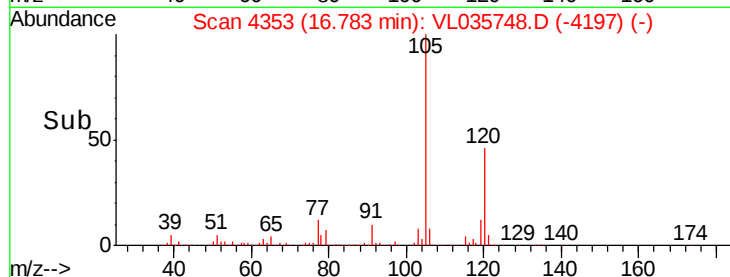
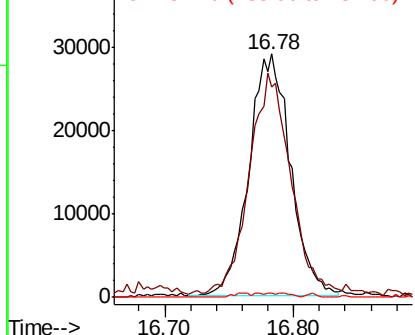
#65  
tert-Butylbenzene  
Concen: 0.122 ppbv  
RT: 16.78 min Scan# 4353  
Delta R.T. 0.00 min  
Lab File: VL035748.D  
Acq: 8 Oct 2020 16:56

Instrument :  
MSVOA\_L  
ClientSampleId :

Tot Ion:119 Resp: 64725  
Ion Ratio Lower Upper  
119 100  
91 95.0 62.4 93.6#  
134 2.5 18.2 27.2#

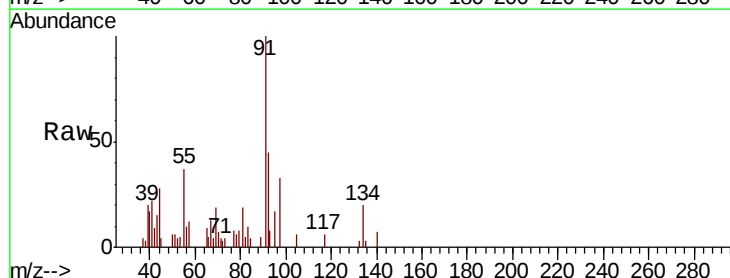


Abundance Ion 119.20 (118.90 to 119.90): V  
Ion 91.10 (90.80 to 91.80): VL0  
Ion 134.20 (133.90 to 134.90): V

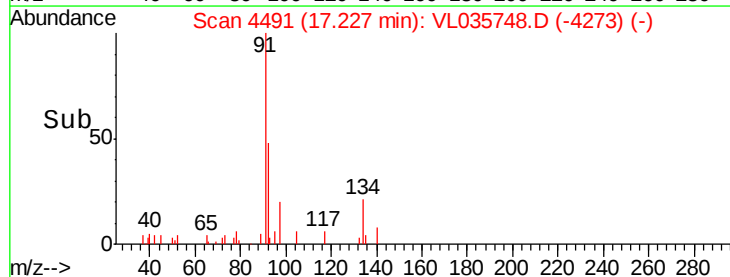
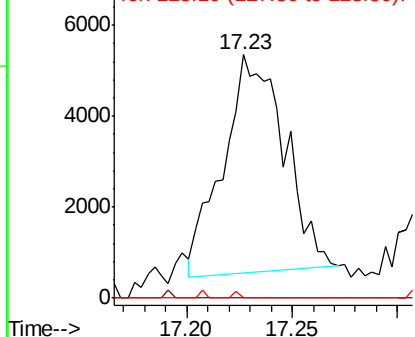


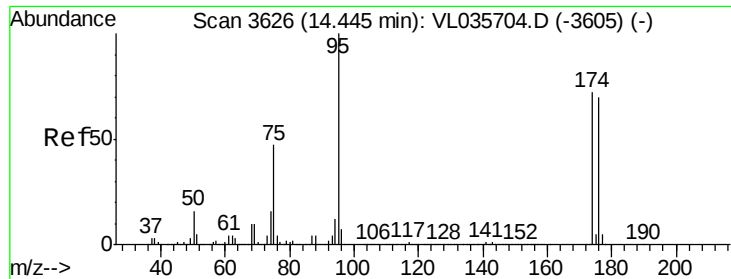
#66  
Benzyl Chloride  
Concen: 0.060 ppbv  
RT: 17.23 min Scan# 4491  
Delta R.T. 0.20 min  
Lab File: VL035748.D  
Acq: 8 Oct 2020 16:56

Tgt Ion: 91 Resp: 9680  
Ion Ratio Lower Upper  
91 100  
126 0.0 15.3 22.9#  
128 0.7 5.0 7.4#



Abundance Ion 91.10 (90.80 to 91.80): VL0  
Ion 126.10 (125.80 to 126.80): V  
Ion 128.10 (127.80 to 128.80): V

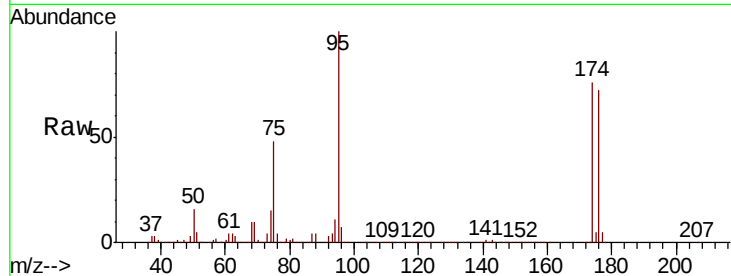




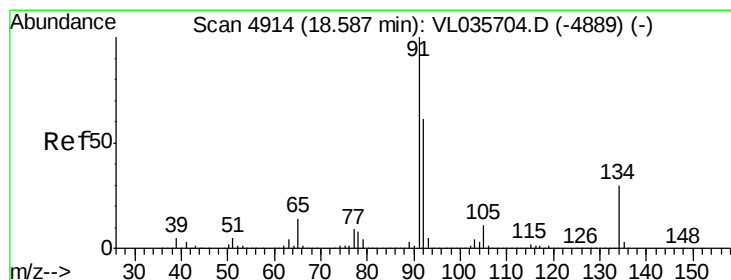
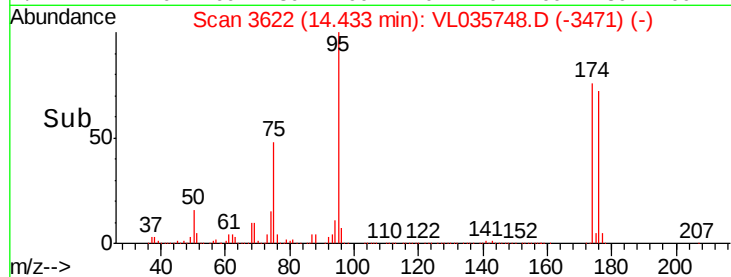
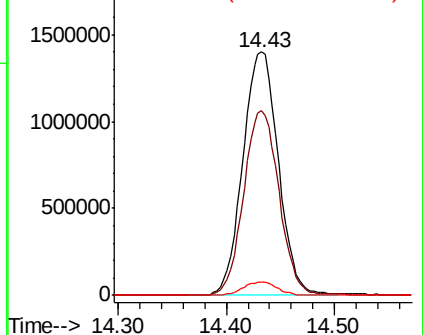
#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.039 ppbv  
 RT: 14.43 min Scan# 3622  
 Delta R.T. -0.01 min  
 Lab File: VL035748.D  
 Acq: 8 Oct 2020 16:56

Instrument :  
 MSVOA\_L  
 ClientSampleId :

Tot Ion: 95 Resp: 3203965  
 Ion Ratio Lower Upper  
 95 100  
 174 76.3 59.6 89.4  
 175 5.4 4.2 6.4

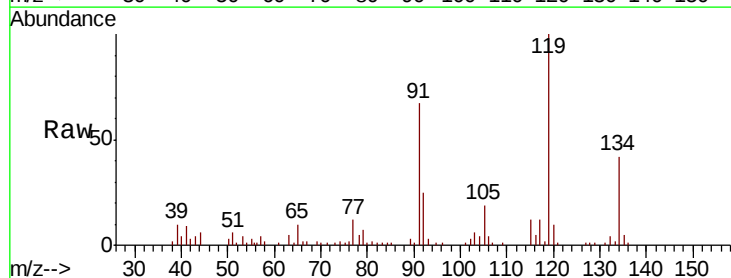


Abundance Ion 95.10 (94.80 to 95.80): VL0  
 Ion 174.00 (173.70 to 174.70): V  
 Ion 175.00 (174.70 to 175.70): V

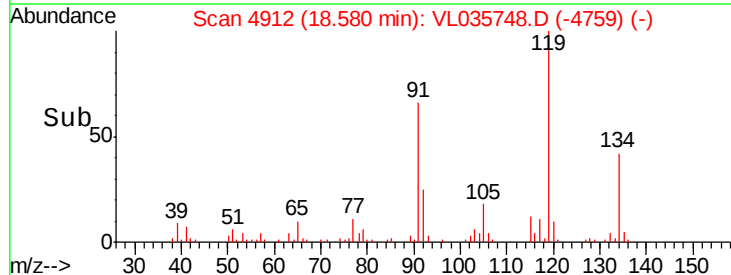
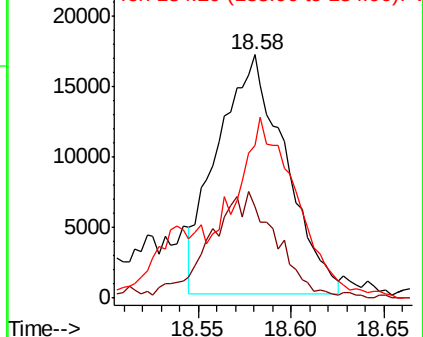


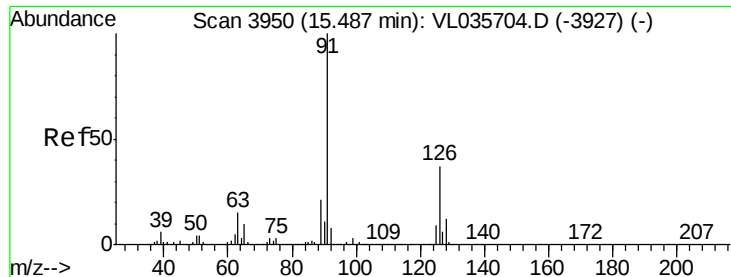
#70  
 n-Butylbenzene  
 Concen: 0.070 ppbv  
 RT: 18.58 min Scan# 4912  
 Delta R.T. -0.01 min  
 Lab File: VL035748.D  
 Acq: 8 Oct 2020 16:56

Tgt Ion: 91 Resp: 43235  
 Ion Ratio Lower Upper  
 91 100  
 92 46.1 47.0 70.4#  
 134 92.9 21.9 32.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0  
 Ion 92.10 (91.80 to 92.80): VL0  
 Ion 134.20 (133.90 to 134.90): V

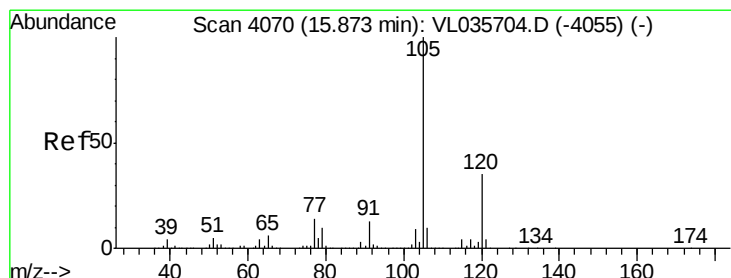
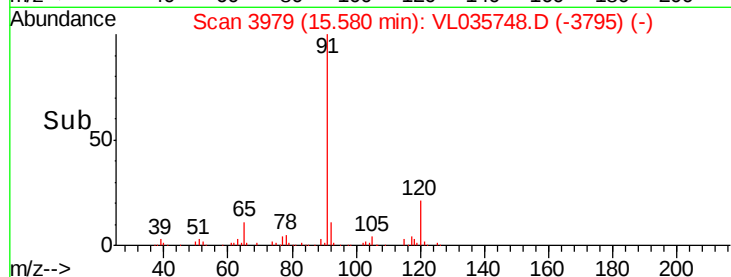
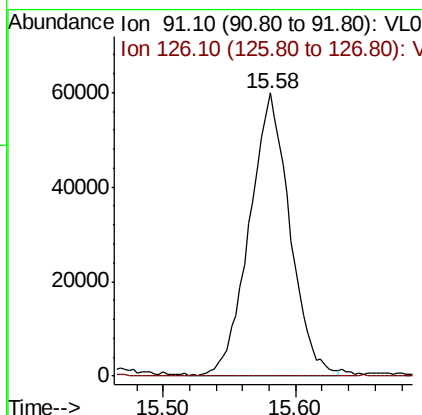
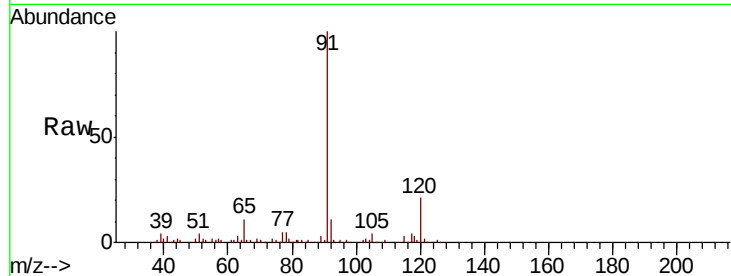




#71  
2-Chlorotoluene  
Concen: 0.295 ppbv  
RT: 15.58 min Scan# 3979  
Delta R.T. 0.09 min  
Lab File: VL035748.D  
Acq: 8 Oct 2020 16:56

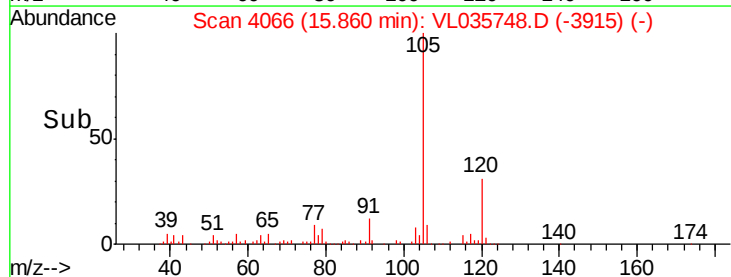
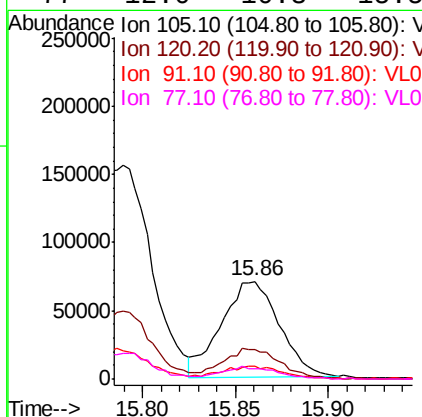
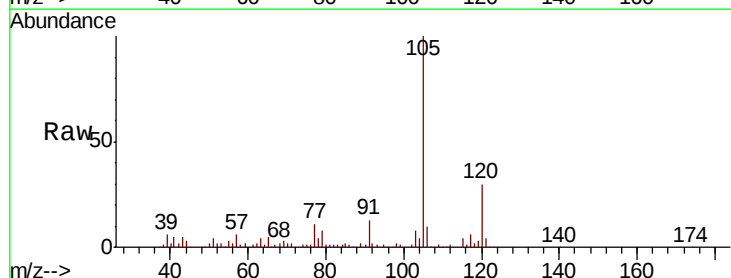
Instrument :  
MSVOA\_L  
ClientSampleId :

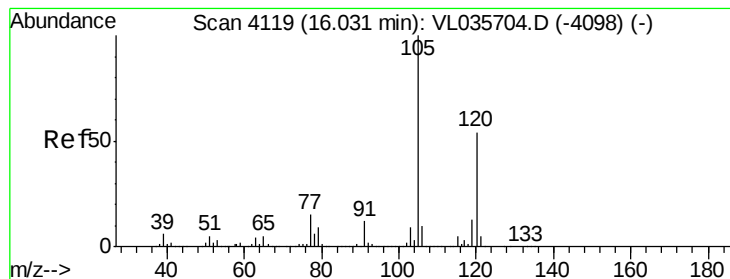
Tot Ion: 91 Resp: 126053  
Ion Ratio Lower Upper  
91 100  
126 0.4 14.4 57.4#



#72  
4-Ethyltoluene  
Concen: 0.342 ppbv  
RT: 15.86 min Scan# 4066  
Delta R.T. -0.01 min  
Lab File: VL035748.D  
Acq: 8 Oct 2020 16:56

Tgt Ion:105 Resp: 152999  
Ion Ratio Lower Upper  
105 100  
120 33.0 26.5 39.7  
91 13.7 10.2 15.2  
77 12.0 10.3 15.5





#73

1,3,5-Trimethylbenzene

Concen: 0.312 ppbv

RT: 16.02 min Scan# 4115

Delta R.T. -0.01 min

Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

Instrument :

MSVOA\_L

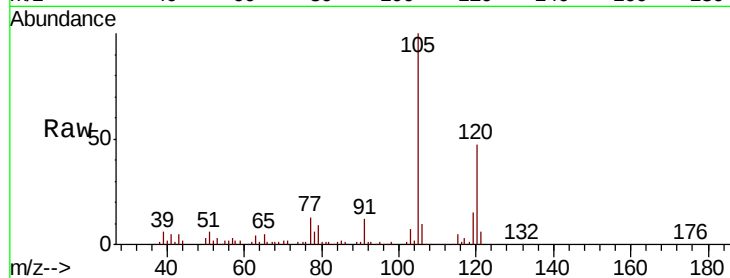
ClientSampleId :

Tot Ion:105 Resp: 131950

Ion Ratio Lower Upper

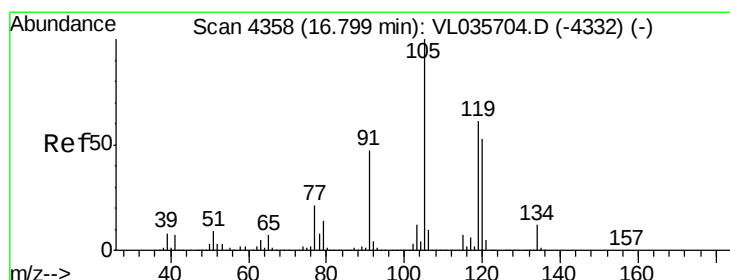
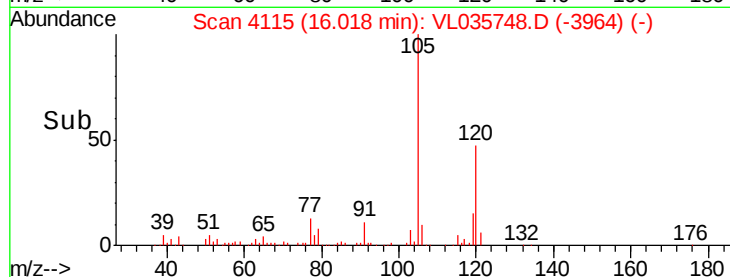
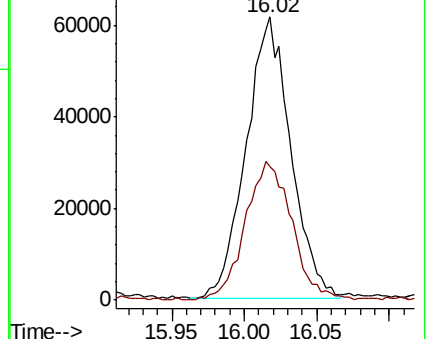
105 100

120 47.3 43.0 64.4



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 1.132 ppbv

RT: 16.78 min Scan# 4353

Delta R.T. -0.02 min

Lab File: VL035748.D

Acq: 8 Oct 2020 16:56

Tgt Ion:105 Resp: 539303

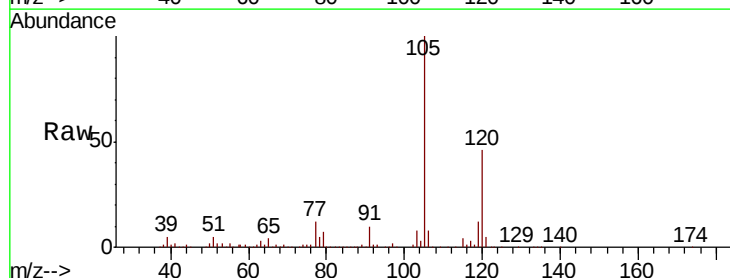
Ion Ratio Lower Upper

105 100

120 46.2 42.5 63.7

91 10.1 37.7 56.5#

77 12.2 16.7 25.1#



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

