

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\  
 Data File : VL031291.D  
 Acq On : 21 Dec 2017 5:14  
 Operator : SY/AP  
 Sample : I7005-10  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 EP1-SV-9

Manual Integrations  
 APPROVED

MMDadoda  
 12/22/2017 4:55:10 PM

Quant Time: Dec 22 07:04:07 2017  
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Dec 14 2017  
 QLast Update : Thu Dec 14 04:29:58 2017  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.92  | 49   | 1404806  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.46  | 114  | 3386566  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.41 | 117  | 3237794  | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.75  | 95    | 2550255  | 11.07    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 110.70% |

| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Ovalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 2) Dichlorodifluoromethane | 3.18  | 85   | 148990   | 1.26  | ppbv   | 94     |
| 3) Chlorodifluoromethane   | 3.11  | 51   | 145832   | 0.91  | ppbv   | 99     |
| 4) Chloromethane           | 3.27  | 50   | 21895    | 0.25  | ppbv   | 97     |
| 9) Propene                 | 3.14  | 41   | 2204689  | 28.12 | ppbv   | 98     |
| 10) Heptane                | 8.41  | 43   | 450694   | 1.89  | ppbv   | 99     |
| 11) Trichlorofluoromethane | 4.13  | 101  | 524586   | 2.69  | ppbv   | 99     |
| 13) Ethanol                | 3.77  | 45   | 324850   | 14.37 | ppbv   | 98     |
| 15) Acetone                | 4.02  | 43   | 5096825  | 27.49 | ppbv # | 56     |
| 17) tert-Butyl alcohol     | 4.50  | 59   | 249308   | 2.40  | ppbv   | 96     |
| 20) Methylene Chloride     | 4.55  | 84   | 222396   | 3.62  | ppbv   | 95     |
| 26) Hexane                 | 5.93  | 57   | 897067   | 4.99  | ppbv # | 38     |
| 27) Carbon Disulfide       | 4.76  | 76   | 229722   | 1.28  | ppbv   | 94     |
| 29) Chloroform             | 6.01  | 83   | 383547   | 1.58  | ppbv   | 95     |
| 30) Cyclohexane            | 7.41  | 84   | 178263   | 1.13  | ppbv # | 54     |
| 32) 1,1,1-Trichloroethane  | 6.78  | 97   | 8642     | 0.03  | ppbv # | 89     |
| 34) 2-Butanone             | 5.47  | 43   | 13434582 | 56.17 | ppbv # | 90     |
| 35) Carbon Tetrachloride   | 7.30  | 117  | 25196    | 0.10  | ppbv   | 94     |
| 36) Benzene                | 7.16  | 78   | 469867   | 1.31  | ppbv   | 98     |
| 38) Trichloroethene        | 8.13  | 130  | 5417m    | 0.04  | ppbv   |        |
| 44) 2,2,4-Trimethylpentane | 8.16  | 57   | 1068099  | 1.97  | ppbv # | 86     |
| 50) 4-Methyl-2-Pentanone   | 9.04  | 43   | 43887    | 0.15  | ppbv   | 94     |
| 51) 2-Hexanone             | 10.44 | 43   | 1796893  | 6.43  | ppbv # | 96     |
| 52) Tetrachloroethene      | 11.55 | 164  | 184658   | 1.39  | ppbv   | 97     |
| 53) Toluene                | 10.12 | 91   | 1233392  | 3.17  | ppbv   | 98     |
| 58) Ethyl Benzene          | 13.03 | 91   | 176915   | 0.33  | ppbv   | 100    |
| 59) m/p-Xylene             | 13.29 | 91   | 419804   | 0.98  | ppbv   | 100    |
| 60) o-Xylene               | 14.02 | 91   | 162135   | 0.38  | ppbv   | 99     |
| 61) Styrene                | 13.86 | 104  | 52348    | 0.42  | ppbv   | 91     |
| 62) Isopropylbenzene       | 15.00 | 105  | 31253    | 0.06  | ppbv   | 99     |
| 72) 4-Ethyltoluene         | 16.17 | 105  | 49021m   | 0.10  | ppbv   |        |
| 73) 1,3,5-Trimethylbenzene | 16.33 | 105  | 48366    | 0.12  | ppbv   | 95     |
| 74) 1,2,4-Trimethylbenzene | 17.09 | 105  | 105376   | 0.24  | ppbv # | 68     |

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

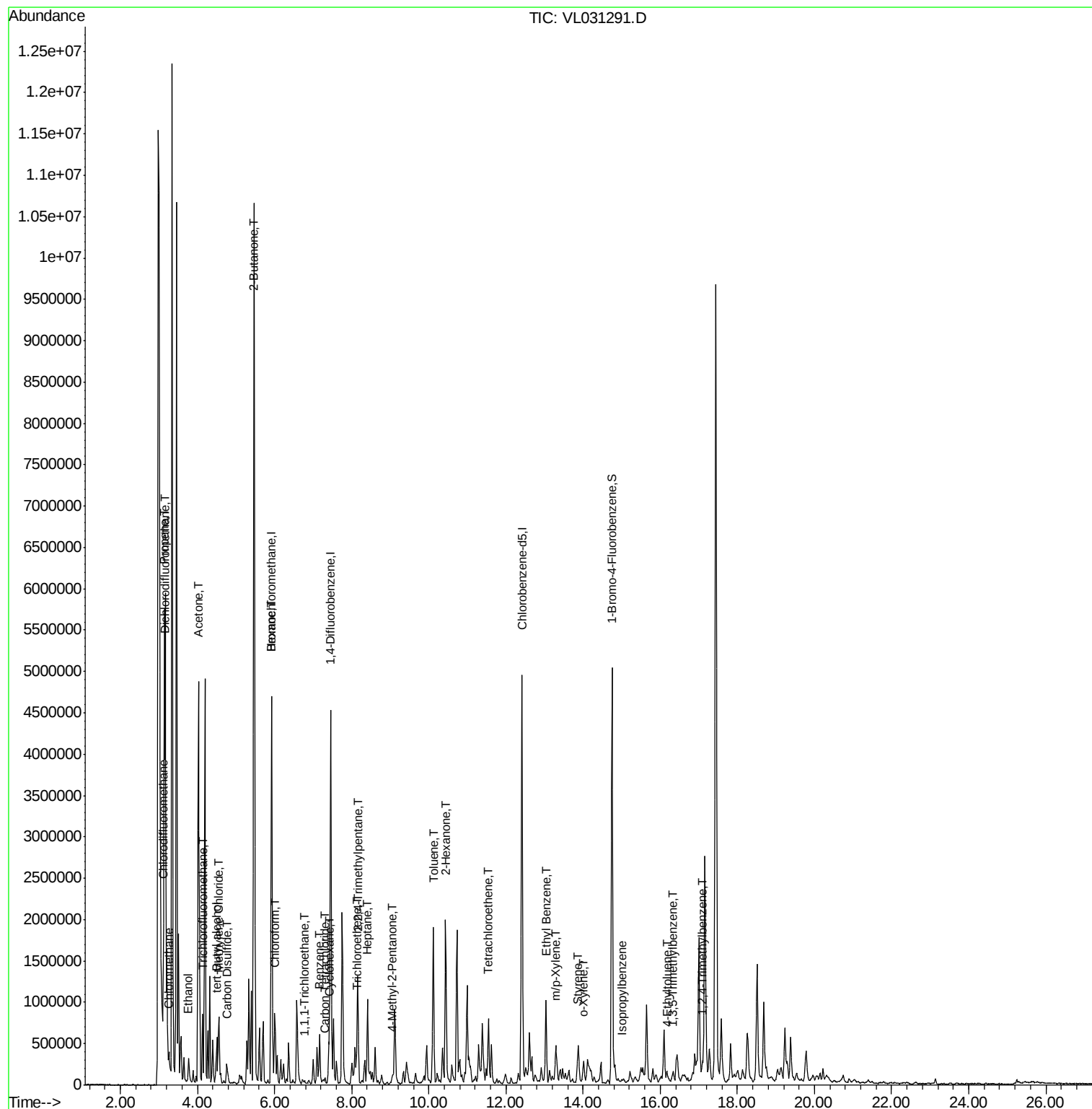
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\  
Data File : VL031291.D  
Acq On : 21 Dec 2017 5:14  
Operator : SY/AP  
Sample : I7005-10  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

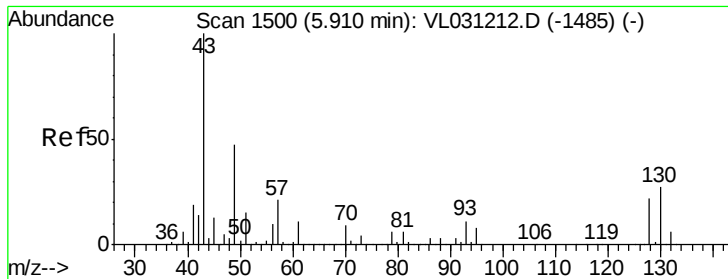
Instrument :  
MSVOA\_L  
ClientSampleId :  
EP1-SV-9

Manual Integrations  
APPROVED

MMDadoda  
12/22/2017 4:55:10 PM

Quant Time: Dec 22 07:04:07 2017  
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Thu Dec  
QLast Update : Thu Dec 14 04:29:58 2017  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.92 min Scan# 1502

Delta R.T. 0.01 min

Lab File: VL031291.D

Acq: 21 Dec 2017 5:14

Instrument :

MSVOA\_L

ClientSampled :

EP1-SV-9

Tot Ion: 49 Resp: 1404806

Ion Ratio Lower Upper

49 100

128 48.9 23.2 69.5

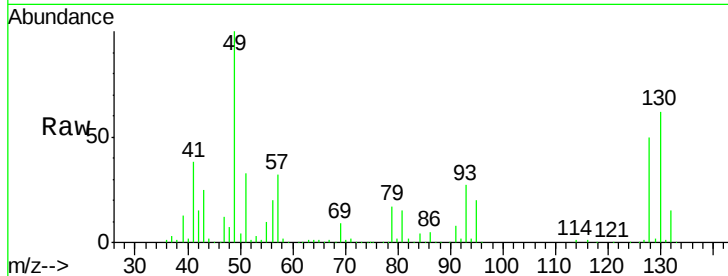
130 61.8 29.6 88.8

Manual Integrations

APPROVED

MMDadoda

12/22/2017 4:55:10 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.92

800000

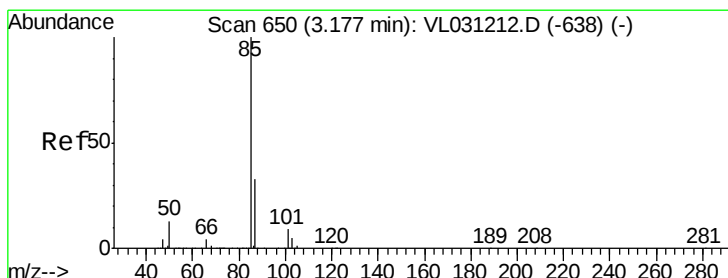
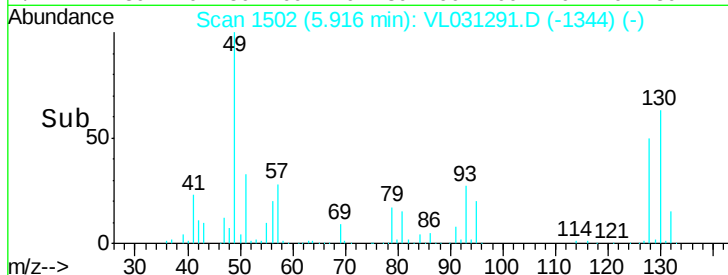
600000

400000

200000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.26 ppbv

RT: 3.18 min Scan# 651

Delta R.T. 0.00 min

Lab File: VL031291.D

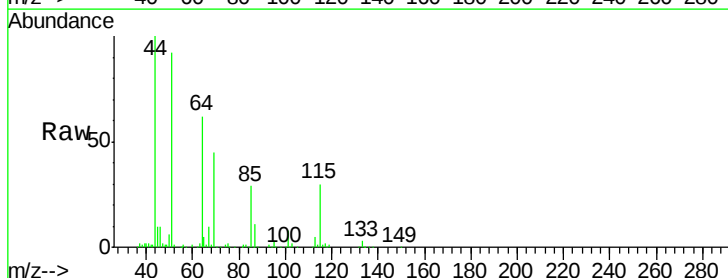
Acq: 21 Dec 2017 5:14

Tgt Ion: 85 Resp: 148990

Ion Ratio Lower Upper

85 100

87 36.0 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.18

120000

100000

80000

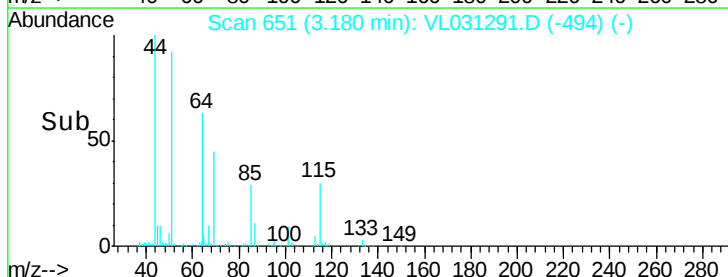
60000

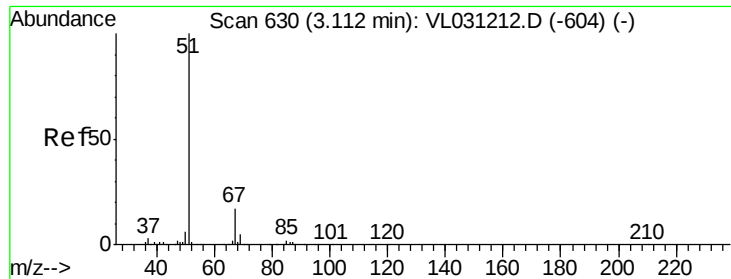
40000

20000

0

Time-->





#3

Chlorodifluoromethane

Concen: 0.91 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL031291.D

Acq: 21 Dec 2017 5:14

Instrument :

MSVOA\_L

ClientSampleId :

EP1-SV-9

Tot Ion: 51 Resp: 145832

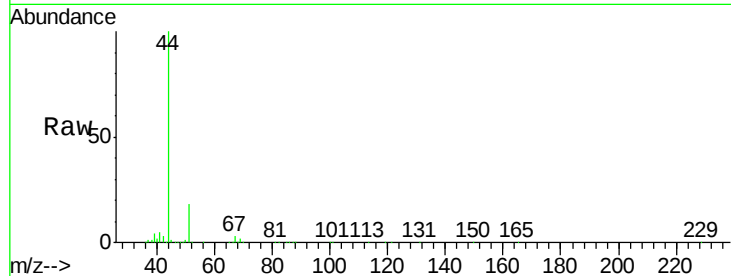
Ion Ratio Lower Upper

51 100

67 16.9 13.8 20.6

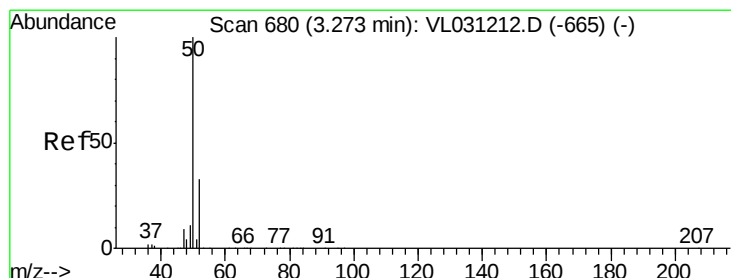
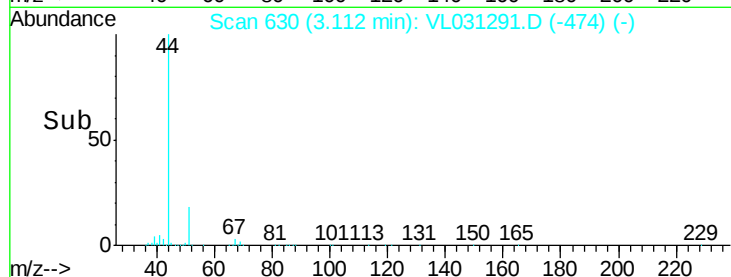
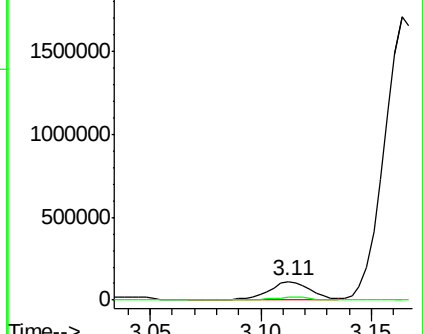
Manual Integrations  
APPROVED

MMDadoda  
12/22/2017 4:55:10 PM



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.25 ppbv

RT: 3.27 min Scan# 680

Delta R.T. 0.00 min

Lab File: VL031291.D

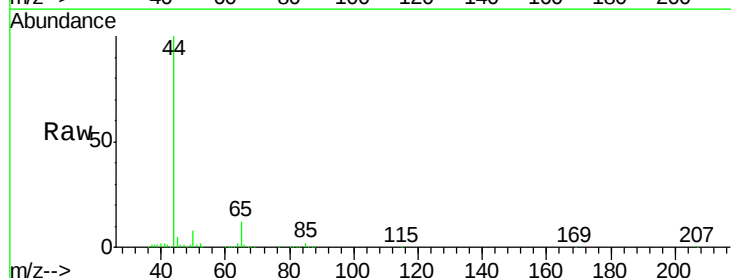
Acq: 21 Dec 2017 5:14

Tgt Ion: 50 Resp: 21895

Ion Ratio Lower Upper

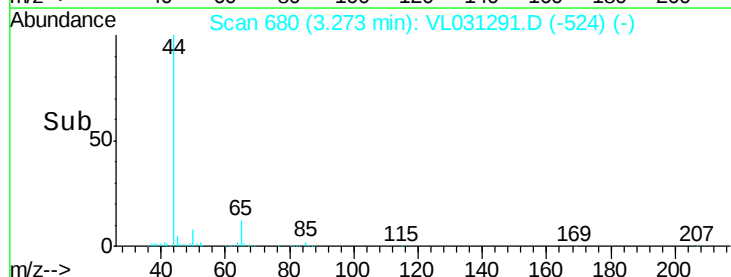
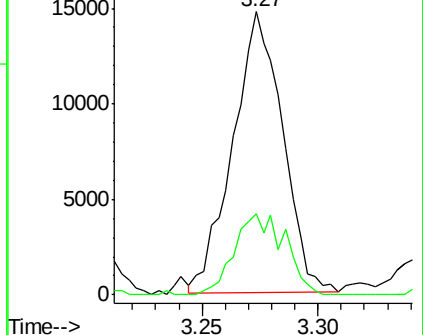
50 100

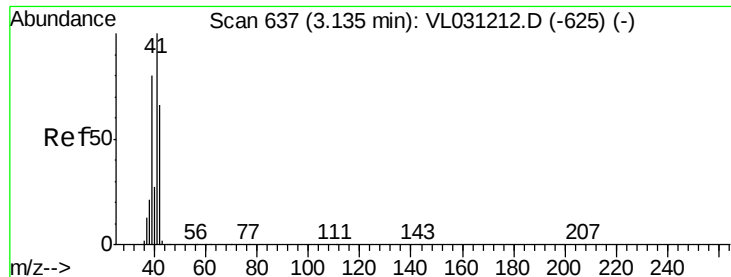
52 31.5 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 28.12 ppbv

RT: 3.14 min Scan# 638

Delta R.T. 0.00 min

Lab File: VL031291.D

Acq: 21 Dec 2017 5:14

Instrument :

MSVOA\_L

ClientSampleId :

EP1-SV-9

Tot Ion: 41 Resp: 2204689

Ion Ratio Lower Upper

41 100

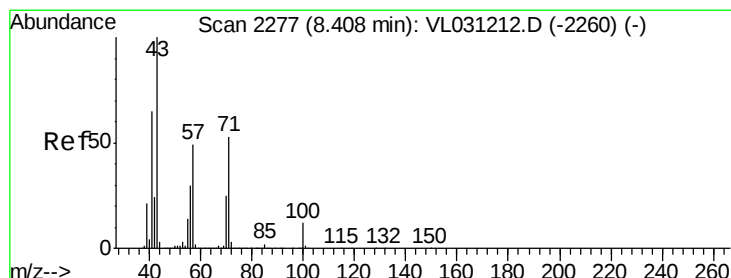
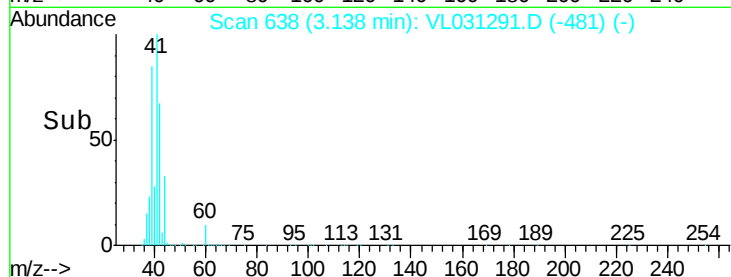
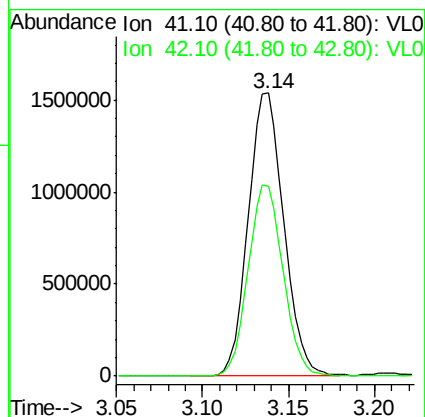
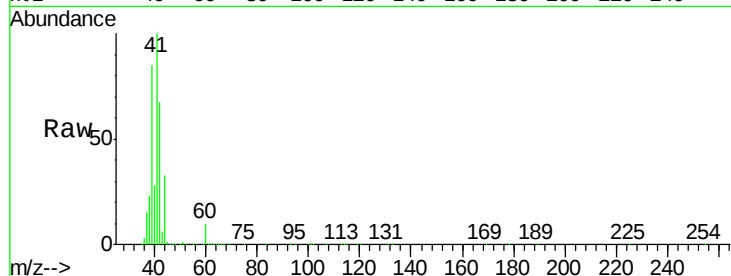
42 66.6 54.3 81.5

Manual Integrations

APPROVED

MMDadoda

12/22/2017 4:55:10 PM



#10

Heptane

Concen: 1.89 ppbv

RT: 8.41 min Scan# 2278

Delta R.T. 0.00 min

Lab File: VL031291.D

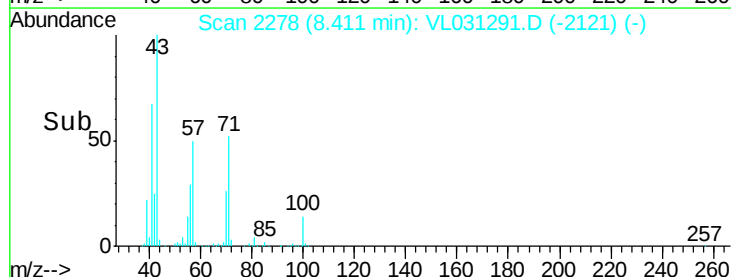
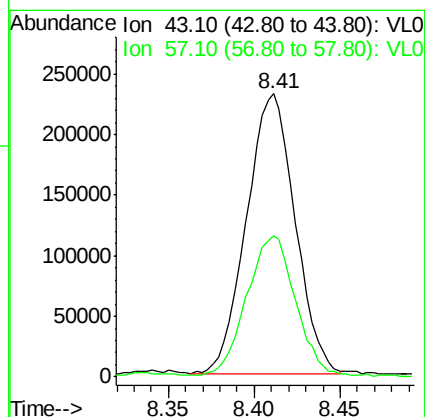
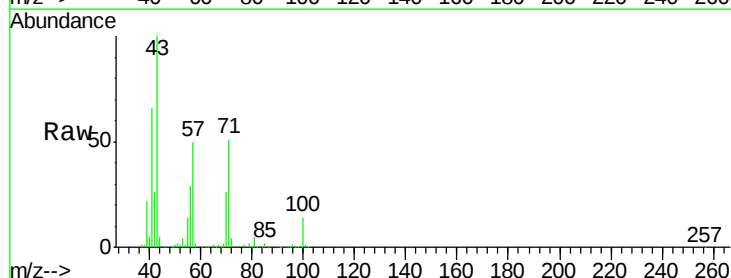
Acq: 21 Dec 2017 5:14

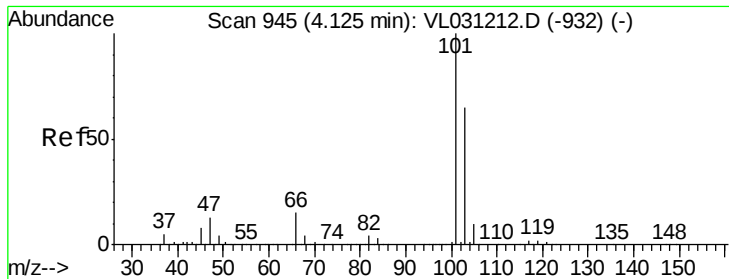
Tgt Ion: 43 Resp: 450694

Ion Ratio Lower Upper

43 100

57 50.8 39.8 59.8





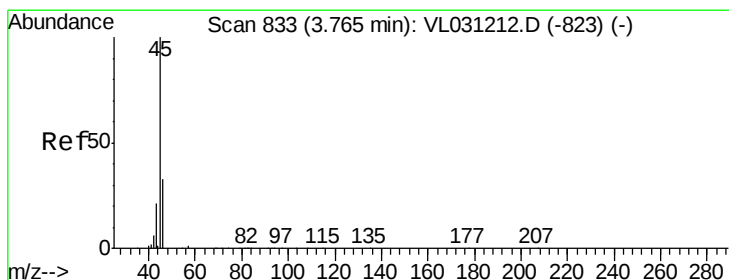
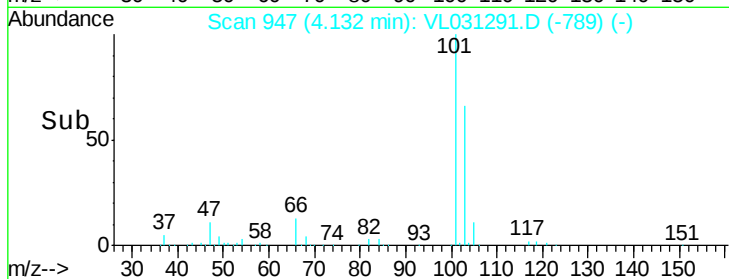
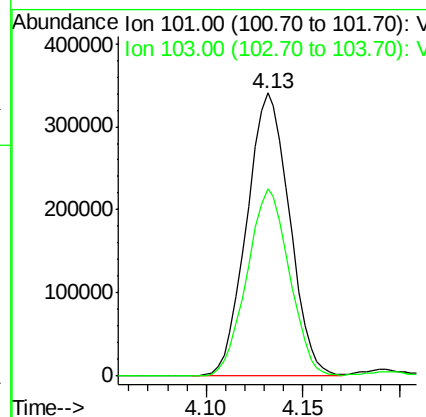
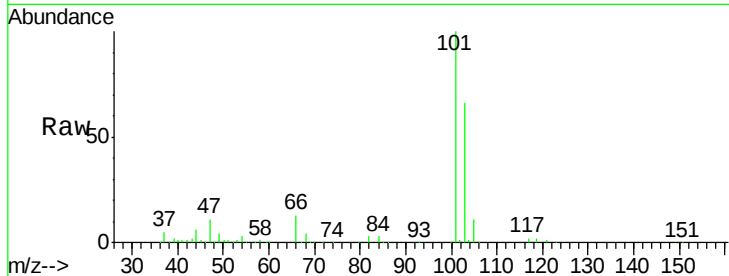
#11  
 Trichlorofluoromethane  
 Concen: 2.69 ppbv  
 RT: 4.13 min Scan# 947  
 Delta R.T. 0.01 min  
 Lab File: VL031291.D  
 Acq: 21 Dec 2017 5:14

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 EP1-SV-9

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 101     | 100   | 524586 |       |       |
| 103     | 66.0  | 51.8   | 77.8  |       |

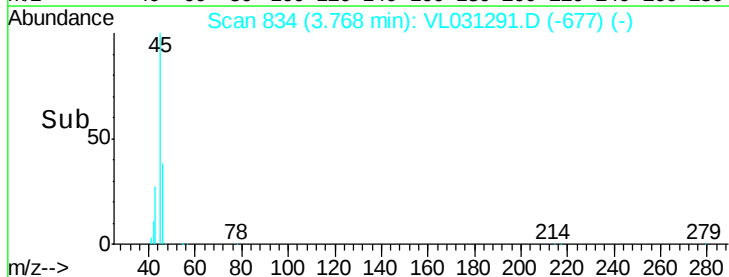
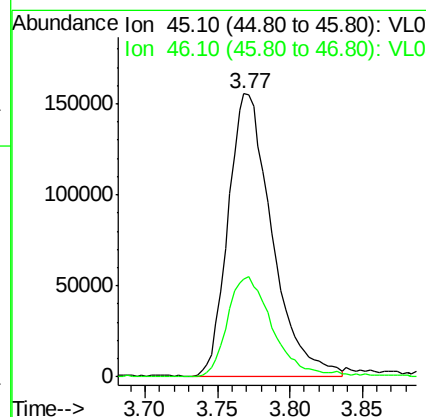
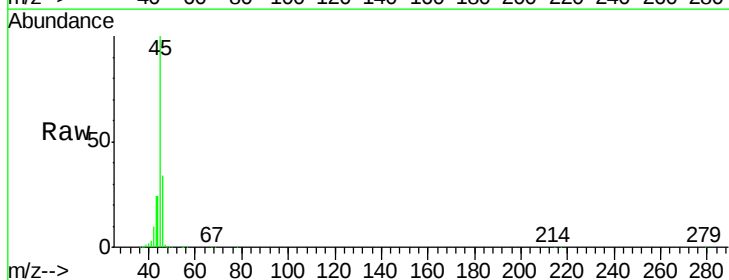
Manual Integrations  
 APPROVED

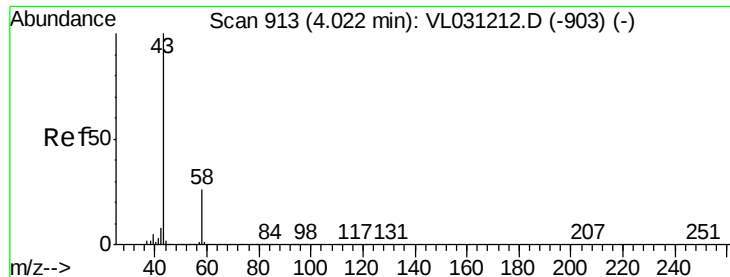
MMDadoda  
 12/22/2017 4:55:10 PM



#13  
 Ethanol  
 Concen: 14.37 ppbv  
 RT: 3.77 min Scan# 834  
 Delta R.T. 0.00 min  
 Lab File: VL031291.D  
 Acq: 21 Dec 2017 5:14

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 45      | 100   | 324850 |       |       |
| 46      | 37.5  | 14.6   | 58.4  |       |





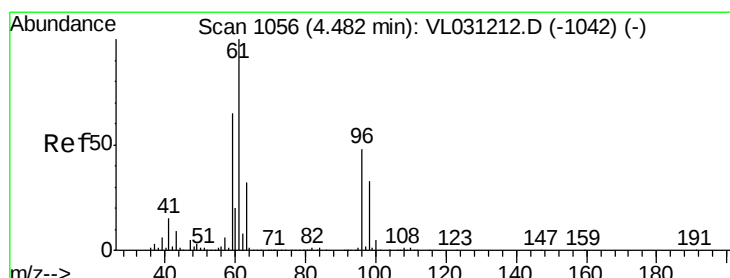
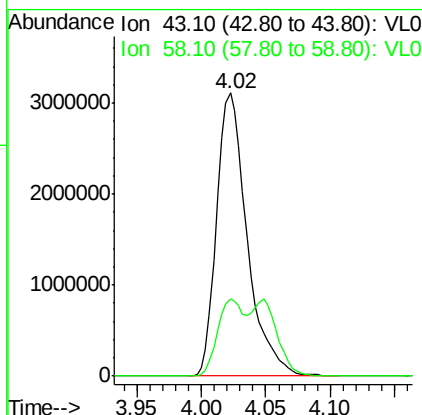
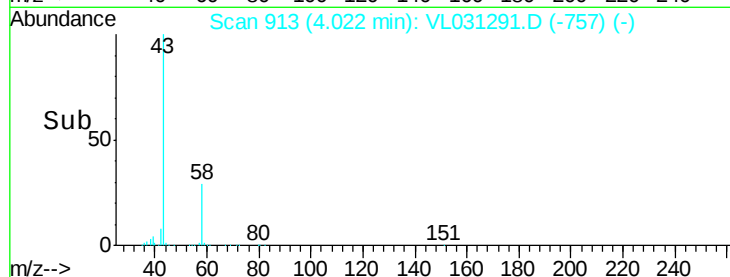
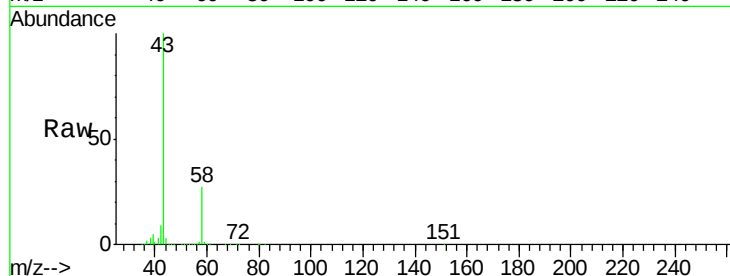
#15  
Acetone  
Concen: 27.49 ppbv  
RT: 4.02 min Scan# 913  
Delta R.T. 0.00 min  
Lab File: VL031291.D  
Acq: 21 Dec 2017 5:14

Instrument :  
MSVOA\_L  
ClientSampleId :  
EP1-SV-9

Tot Ion: 43 Resp: 5096825  
Ion Ratio Lower Upper  
43 100  
58 47.4 20.3 30.5#

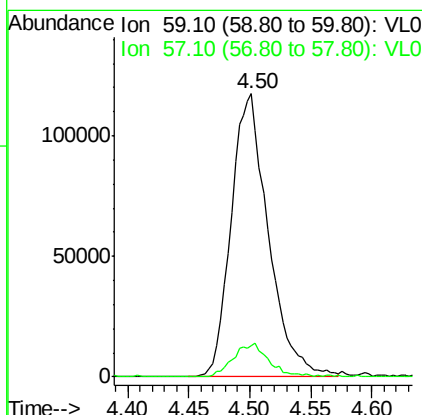
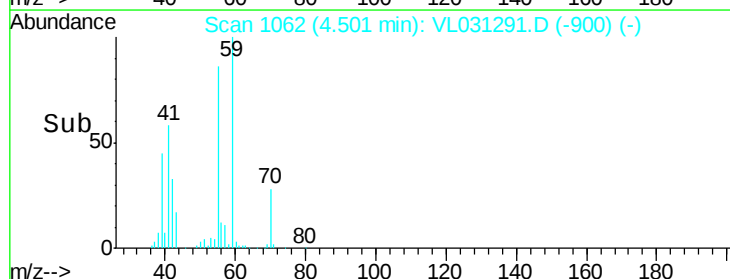
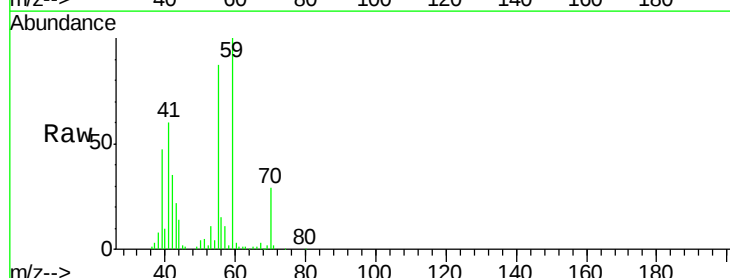
Manual Integrations  
APPROVED

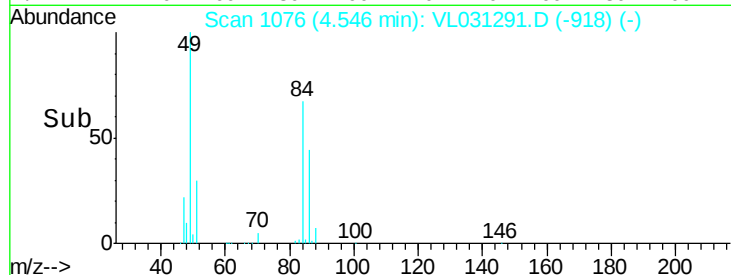
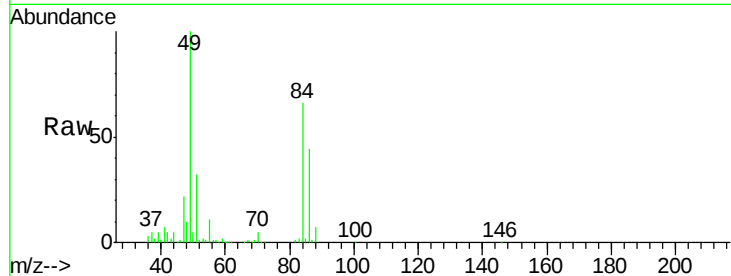
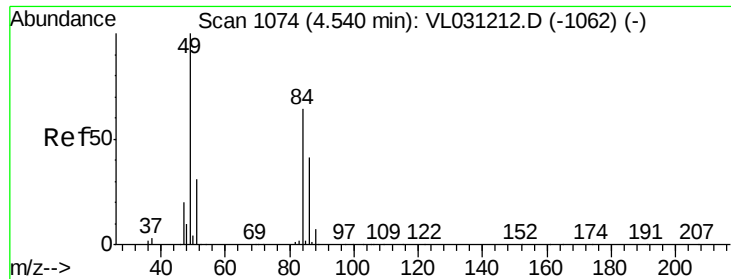
MMDadoda  
12/22/2017 4:55:10 PM



#17  
tert-Butyl alcohol  
Concen: 2.40 ppbv  
RT: 4.50 min Scan# 1062  
Delta R.T. 0.02 min  
Lab File: VL031291.D  
Acq: 21 Dec 2017 5:14

Tgt Ion: 59 Resp: 249308  
Ion Ratio Lower Upper  
59 100  
57 11.8 8.2 12.2





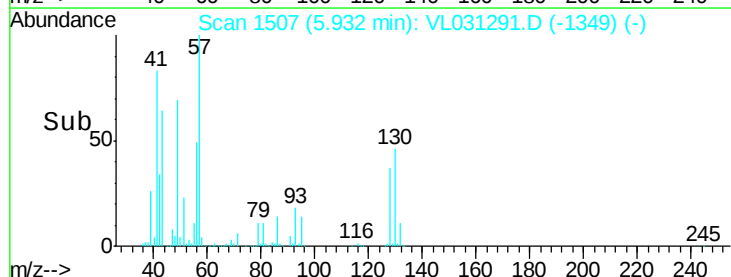
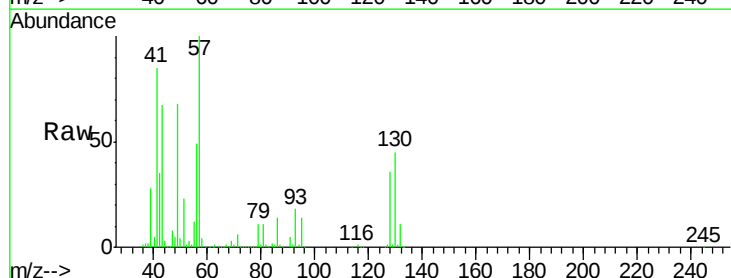
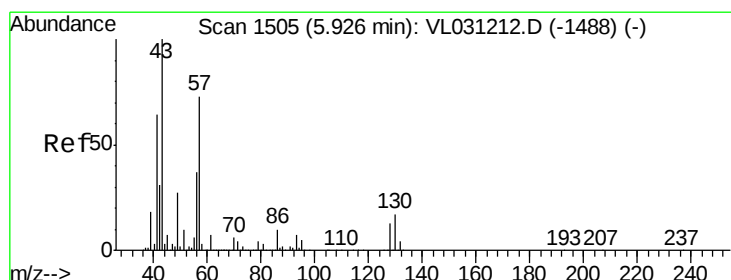
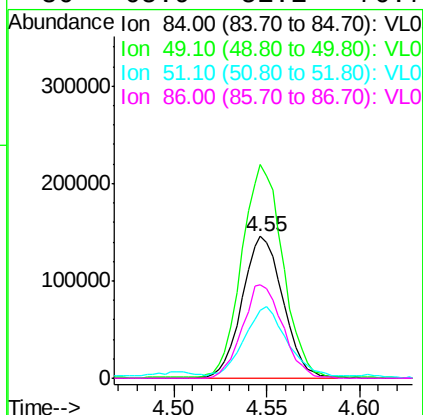
#20  
Methvlene Chloride  
Concen: 3.62 ppbv  
RT: 4.55 min Scan# 1076  
Delta R.T. 0.01 min  
Lab File: VL031291.D  
Acq: 21 Dec 2017 5:14

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 84      | 100   |        |       |       |
| 49      | 150.0 | 222396 | 125.8 | 188.6 |
| 51      | 45.6  |        | 39.3  | 58.9  |
| 86      | 65.9  |        | 51.1  | 76.7  |

Instrument :  
MSVOA\_L  
ClientSampleId :  
EP1-SV-9

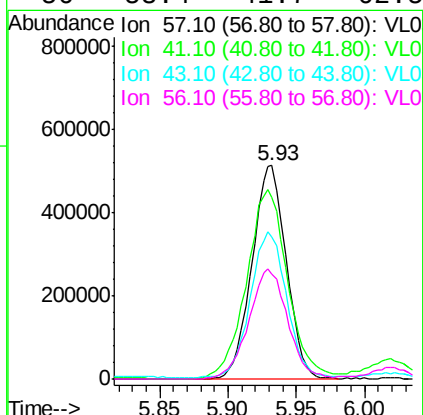
Manual Integrations  
APPROVED

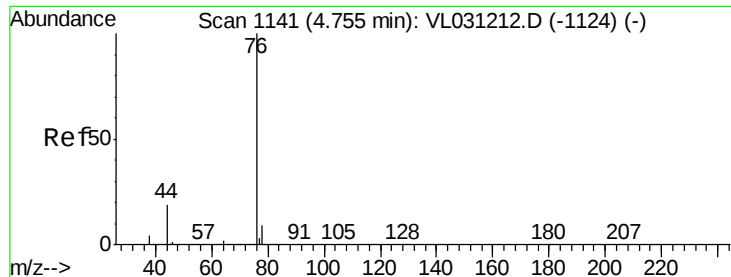
MMDadoda  
12/22/2017 4:55:10 PM



#26  
Hexane  
Concen: 4.99 ppbv  
RT: 5.93 min Scan# 1507  
Delta R.T. 0.01 min  
Lab File: VL031291.D  
Acq: 21 Dec 2017 5:14

| Tgt Ion | Ratio | Resp   | Lower | Upper  |
|---------|-------|--------|-------|--------|
| 57      | 100   | 897067 |       |        |
| 41      | 106.2 |        | 70.3  | 105.5# |
| 43      | 71.9  |        | 173.8 | 260.8# |
| 56      | 58.4  |        | 41.7  | 62.5   |





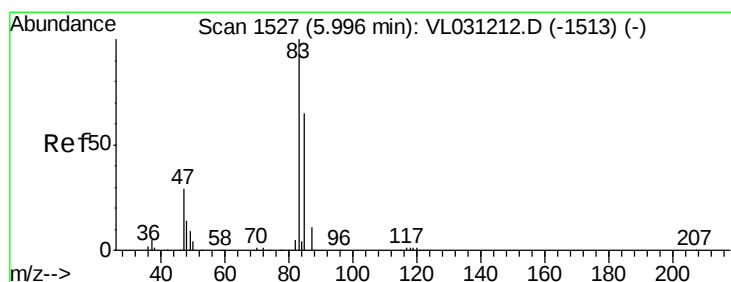
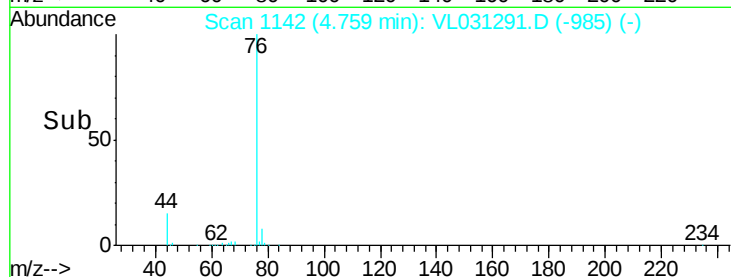
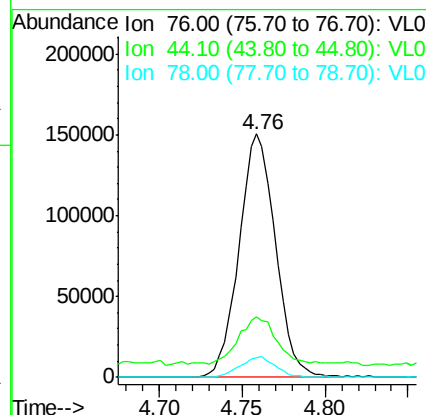
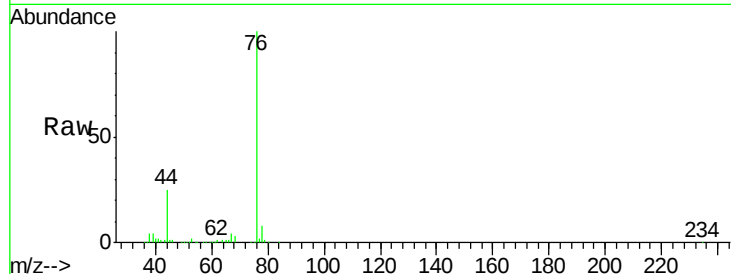
#27  
Carbon Disulfide  
Concen: 1.28 ppbv  
RT: 4.76 min Scan# 1142  
Delta R.T. 0.00 min  
Lab File: VL031291.D  
Acq: 21 Dec 2017 5:14

Instrument :  
MSVOA\_L  
ClientSampleId :  
EP1-SV-9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 44      | 23.5  | 16.0  | 24.0  |
| 78      | 8.6   | 7.5   | 11.3  |

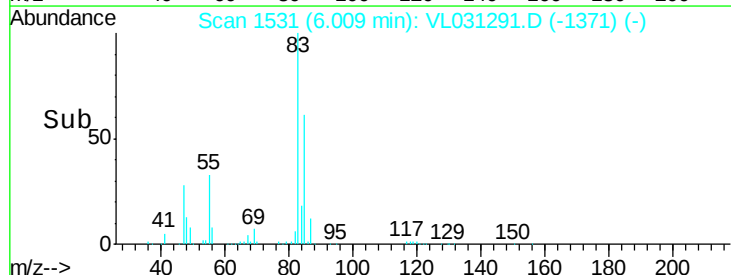
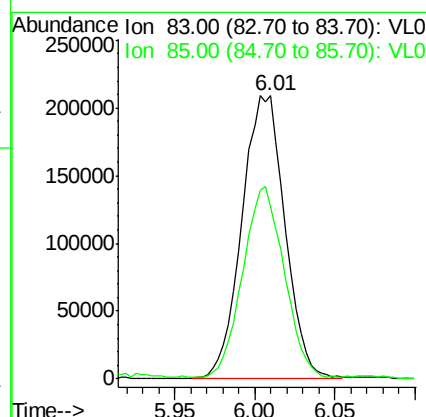
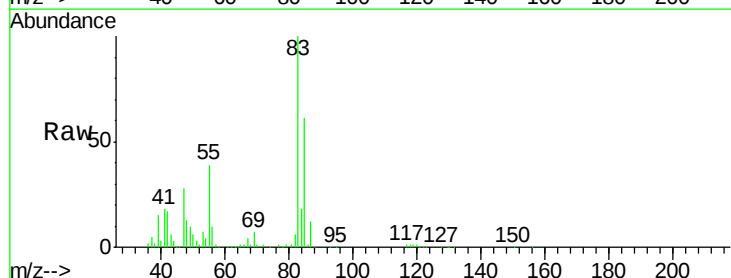
Manual Integrations  
APPROVED

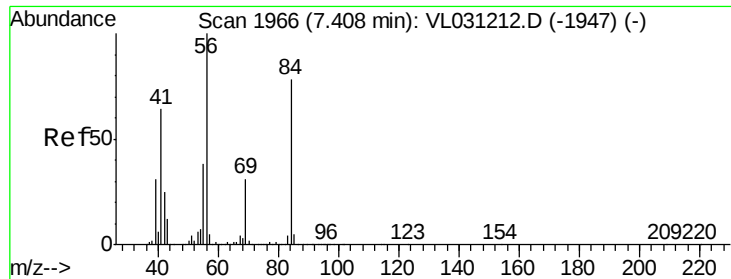
MMDadoda  
12/22/2017 4:55:10 PM



#29  
Chloroform  
Concen: 1.58 ppbv  
RT: 6.01 min Scan# 1531  
Delta R.T. 0.01 min  
Lab File: VL031291.D  
Acq: 21 Dec 2017 5:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 60.5  | 51.8  | 77.6  |





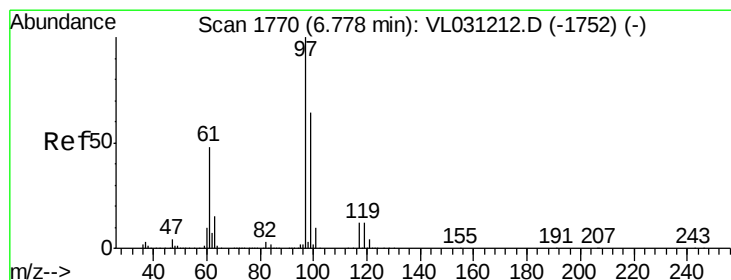
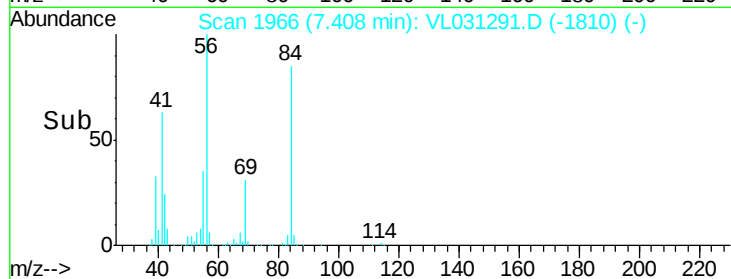
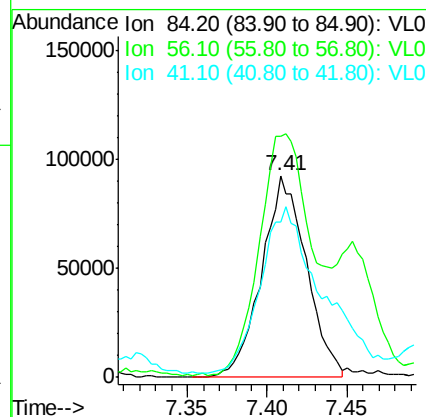
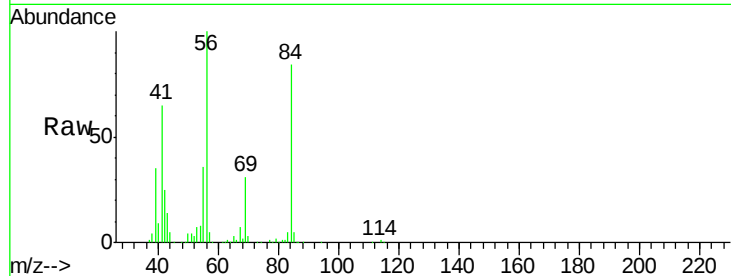
#30  
Cyclohexane  
Concen: 1.13 ppbv  
RT: 7.41 min Scan# 1966  
Delta R.T. 0.00 min  
Lab File: VL031291.D  
Acq: 21 Dec 2017 5:14

Instrument :  
MSVOA\_L  
ClientSampled :  
EP1-SV-9

| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 84      | 100   |       |        |
| 56      | 197.3 | 108.0 | 162.0# |
| 41      | 116.1 | 66.2  | 99.4#  |

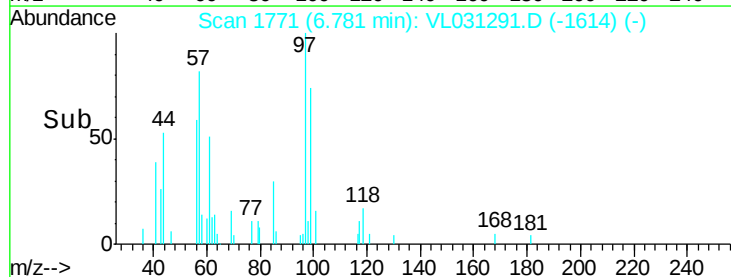
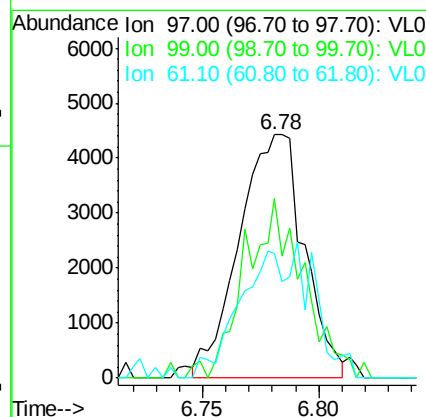
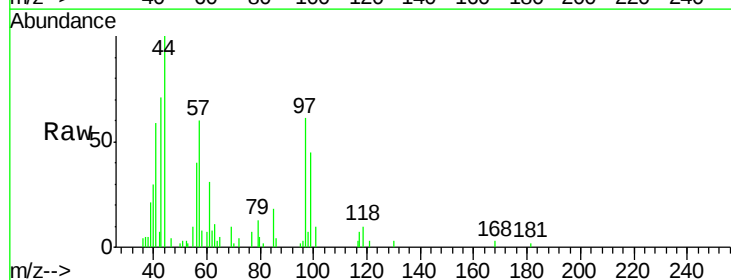
Manual Integrations  
APPROVED

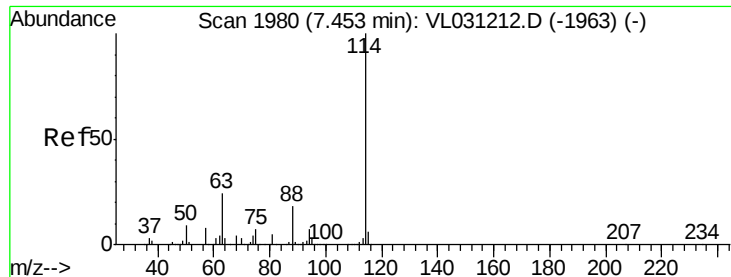
MMDadoda  
12/22/2017 4:55:10 PM



#32  
1,1,1-Trichloroethane  
Concen: 0.03 ppbv  
RT: 6.78 min Scan# 1771  
Delta R.T. 0.00 min  
Lab File: VL031291.D  
Acq: 21 Dec 2017 5:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 67.6  | 51.4  | 77.0  |
| 61      | 61.8  | 38.4  | 57.6# |





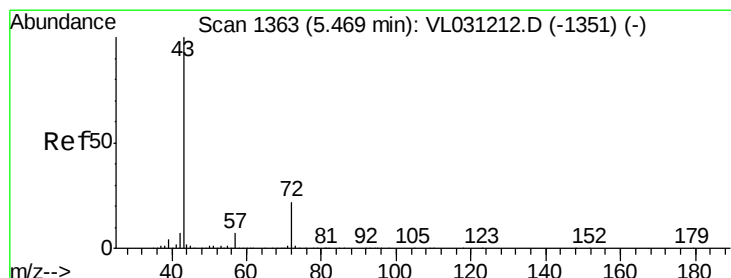
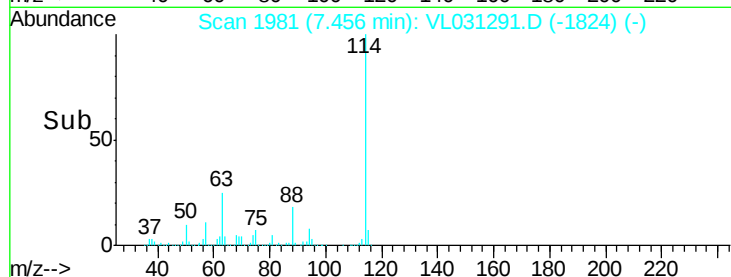
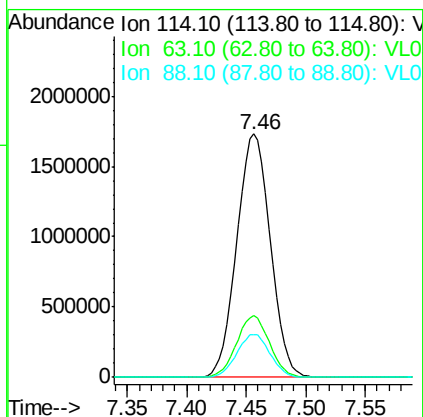
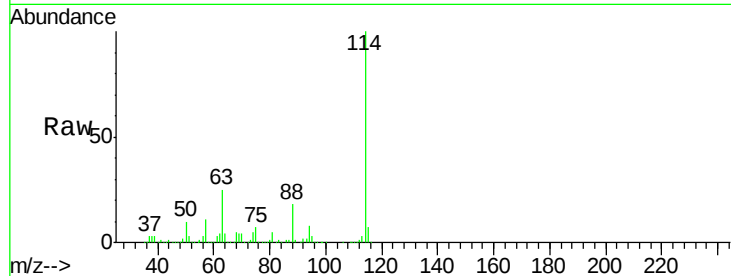
#33  
 1,4-Difluorobenzene  
 Concen: 10.00 ppbv  
 RT: 7.46 min Scan# 1981  
 Delta R.T. 0.00 min  
 Lab File: VL031291.D  
 Acq: 21 Dec 2017 5:14

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 EP1-SV-9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 25.0  | 19.8  | 29.8  |
| 88      | 17.6  | 14.2  | 21.4  |

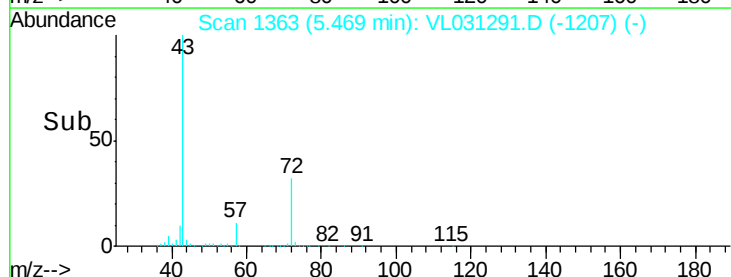
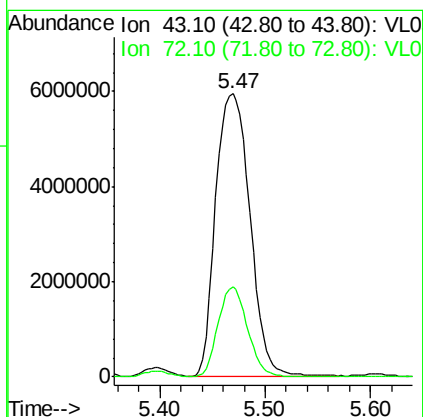
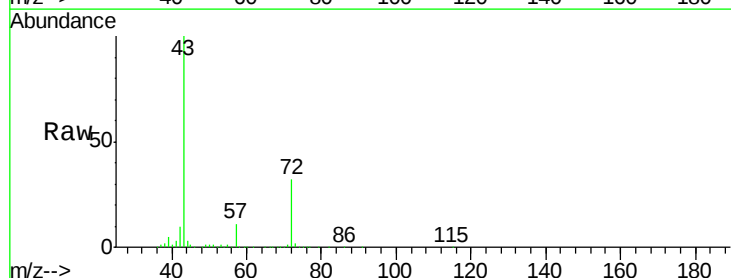
Manual Integrations  
 APPROVED

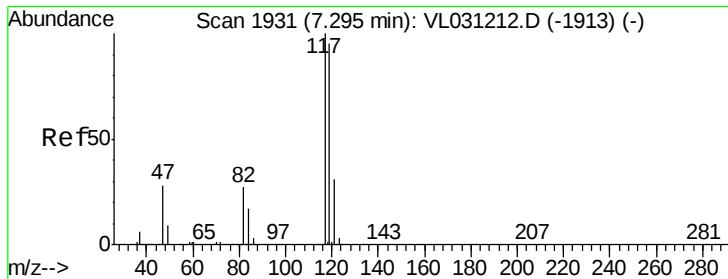
MMDadoda  
 12/22/2017 4:55:10 PM



#34  
 2-Butanone  
 Concen: 56.17 ppbv  
 RT: 5.47 min Scan# 1363  
 Delta R.T. 0.00 min  
 Lab File: VL031291.D  
 Acq: 21 Dec 2017 5:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 27.4  | 18.1  | 27.1# |





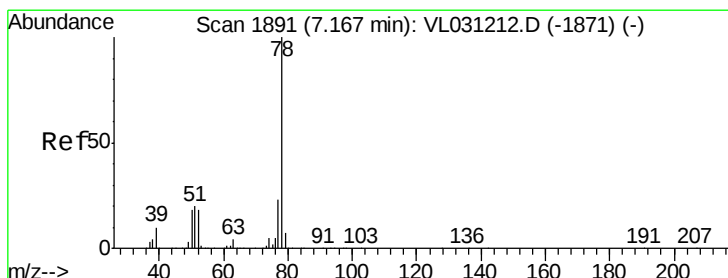
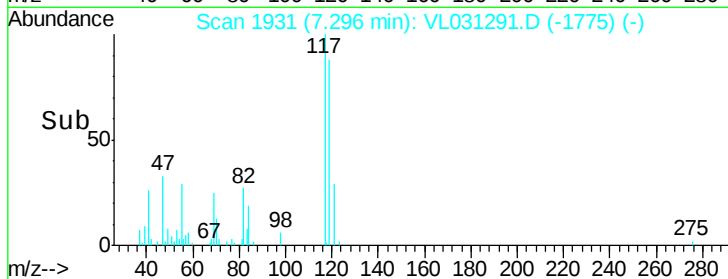
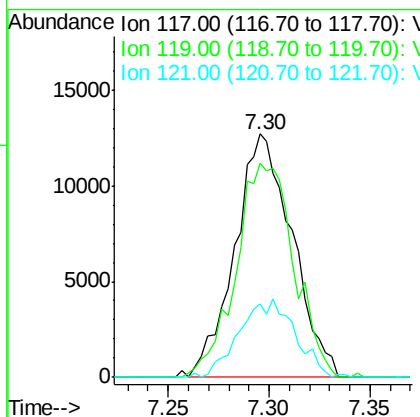
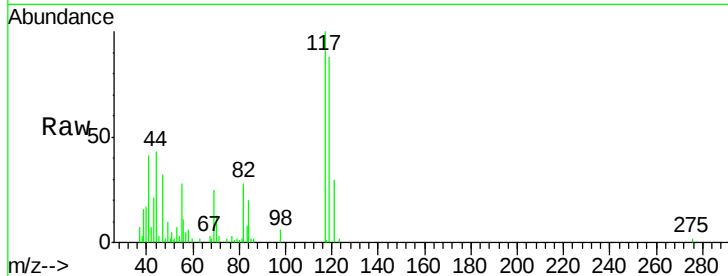
#35  
Carbon Tetrachloride  
Concen: 0.10 ppbv  
RT: 7.30 min Scan# 1931  
Delta R.T. 0.00 min  
Lab File: VL031291.D  
Acq: 21 Dec 2017 5:14

Instrument :  
MSVOA\_L  
ClientSampleId :  
EP1-SV-9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 88.0  | 75.9  | 113.9 |
| 121     | 30.2  | 24.6  | 37.0  |

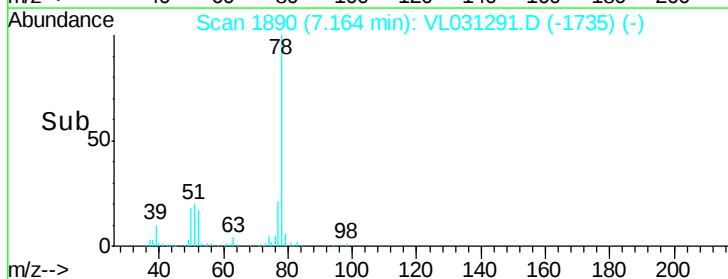
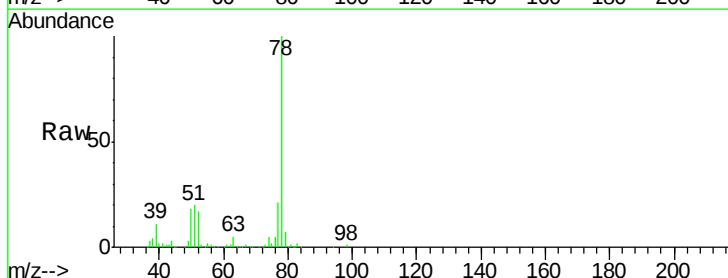
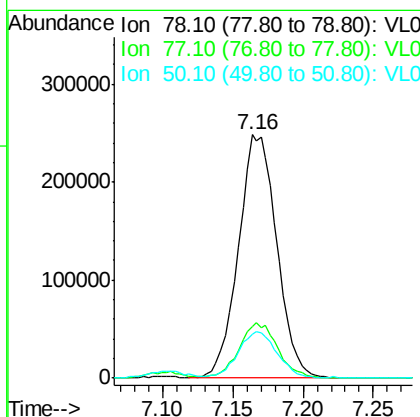
Manual Integrations  
APPROVED

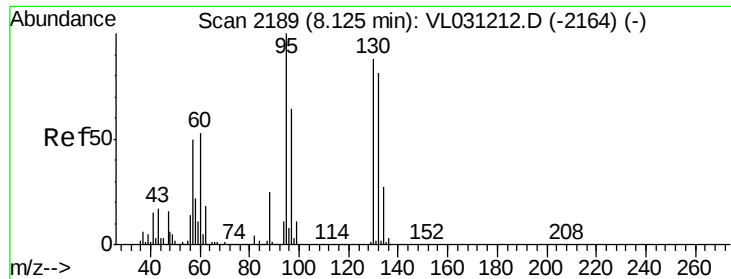
MMDadoda  
12/22/2017 4:55:10 PM



#36  
Benzene  
Concen: 1.31 ppbv  
RT: 7.16 min Scan# 1890  
Delta R.T. -0.00 min  
Lab File: VL031291.D  
Acq: 21 Dec 2017 5:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 21.3  | 18.1  | 27.1  |
| 50      | 17.7  | 14.6  | 21.8  |





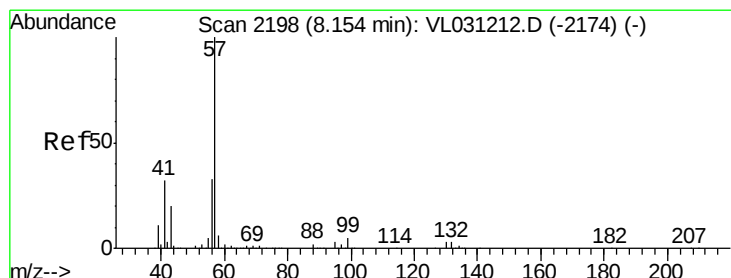
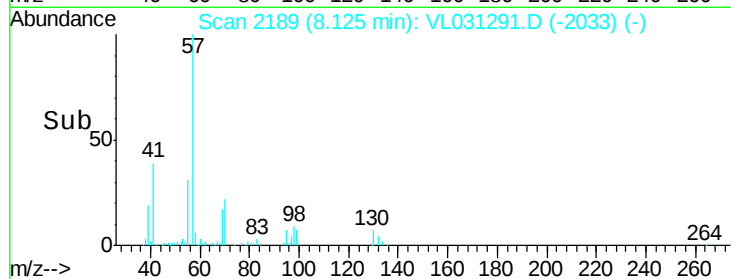
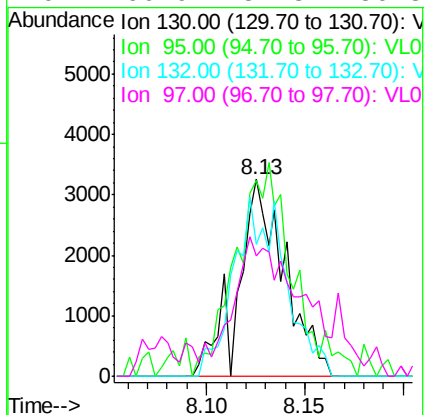
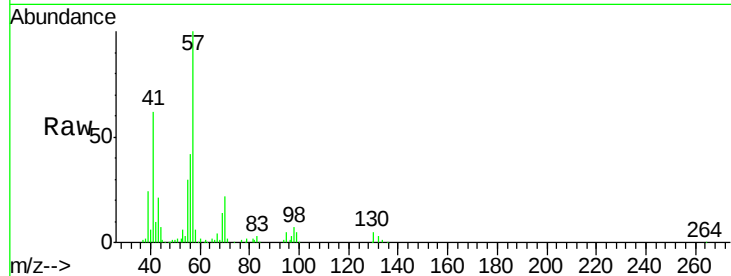
#38  
 Trichloroethene  
 Concen: 0.04 ppbv m  
 RT: 8.13 min Scan# 2189  
 Delta R.T. 0.00 min  
 Lab File: VL031291.D  
 Acq: 21 Dec 2017 5:14

Instrument :  
 MSVOA\_L  
 ClientSampled :  
 EP1-SV-9

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 130   | Resp: | 5417   |
| Ion Ratio | Lower | Upper |        |
| 130       | 100   |       |        |
| 95        | 99.3  | 90.6  | 135.8  |
| 132       | 67.3  | 73.5  | 110.3# |
| 97        | 60.9  | 57.8  | 86.8   |

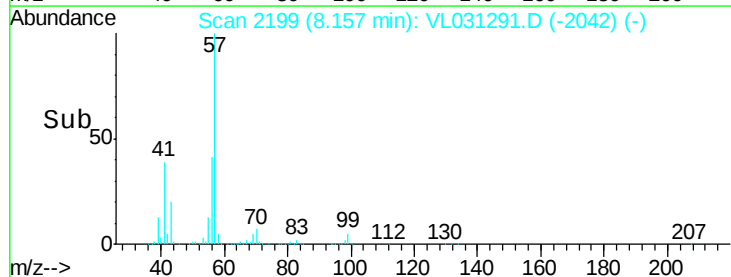
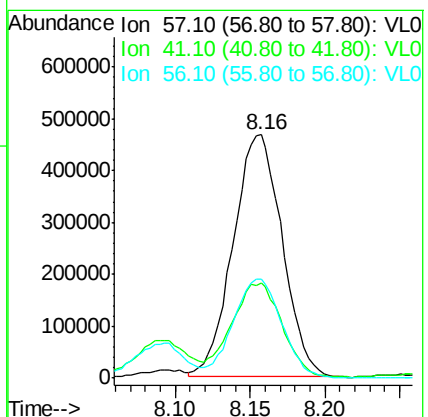
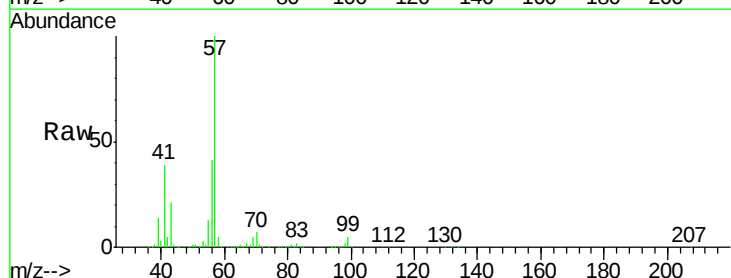
Manual Integrations  
 APPROVED

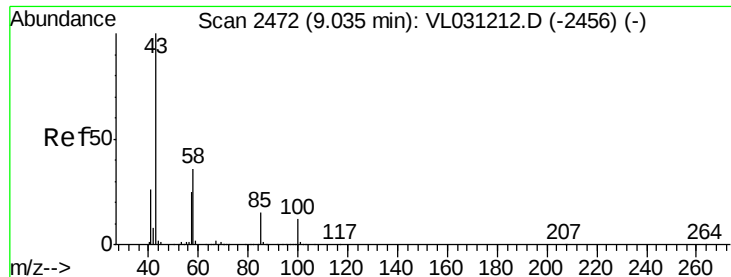
MMDadoda  
 12/22/2017 4:55:10 PM



#44  
 2,2,4-Trimethylpentane  
 Concen: 1.97 ppbv  
 RT: 8.16 min Scan# 2199  
 Delta R.T. 0.00 min  
 Lab File: VL031291.D  
 Acq: 21 Dec 2017 5:14

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 57    | Resp: | 1068099 |
| Ion Ratio | Lower | Upper |         |
| 57        | 100   |       |         |
| 41        | 39.3  | 25.5  | 38.3#   |
| 56        | 39.9  | 25.0  | 37.6#   |





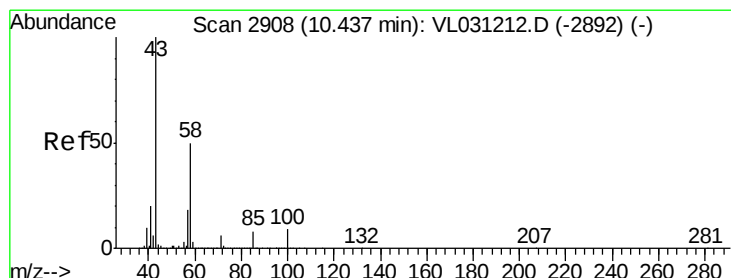
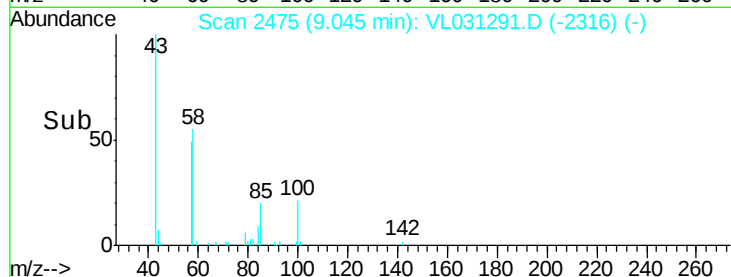
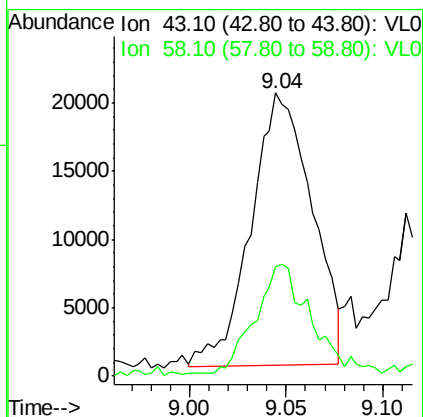
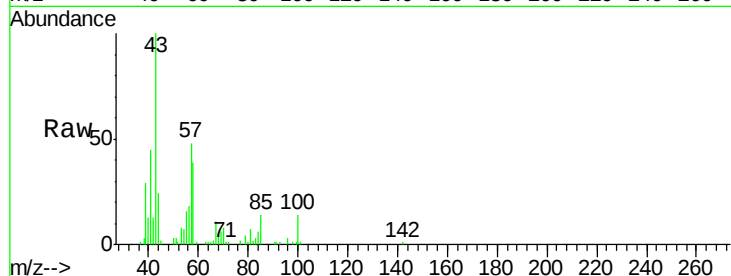
#50  
4-Methyl-2-Pentanone  
Concen: 0.15 ppbv  
RT: 9.04 min Scan# 2475  
Delta R.T. 0.01 min  
Lab File: VL031291.D  
Acq: 21 Dec 2017 5:14

Instrument :  
MSVOA\_L  
ClientSampled :  
EP1-SV-9

Tot Ion: 43 Resp: 43887  
Ion Ratio Lower Upper  
43 100  
58 39.5 28.8 43.2

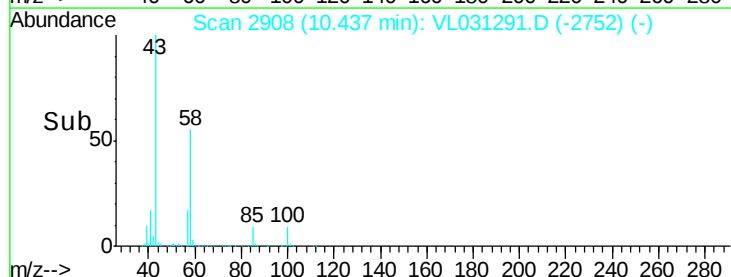
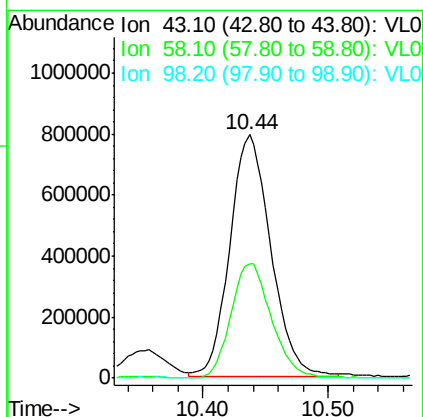
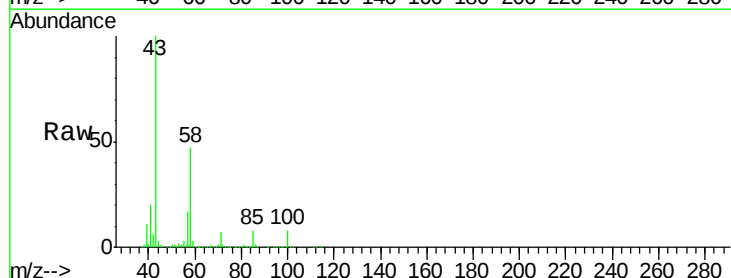
Manual Integrations  
APPROVED

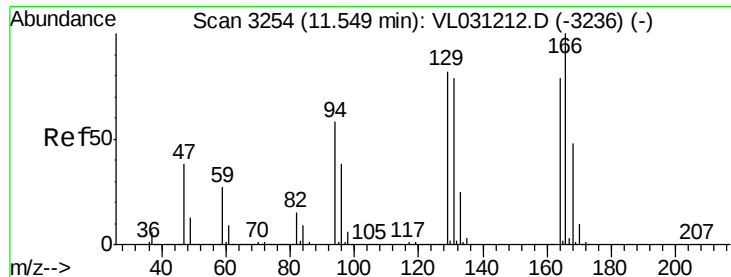
MMDadoda  
12/22/2017 4:55:10 PM



#51  
2-Hexanone  
Concen: 6.43 ppbv  
RT: 10.44 min Scan# 2908  
Delta R.T. 0.00 min  
Lab File: VL031291.D  
Acq: 21 Dec 2017 5:14

Tgt Ion: 43 Resp: 1796893  
Ion Ratio Lower Upper  
43 100  
58 47.0 39.8 59.6  
98 0.1 0.0 0.0#





#52

Tetrachloroethene

Concen: 1.39 ppbv

RT: 11.55 min Scan# 3253

Delta R.T. -0.00 min

Lab File: VL031291.D

Acq: 21 Dec 2017 5:14

Instrument :

MSVOA\_L

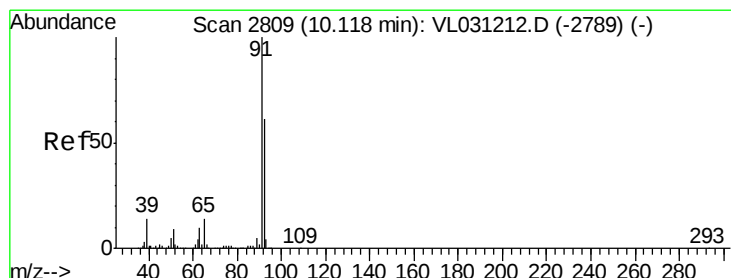
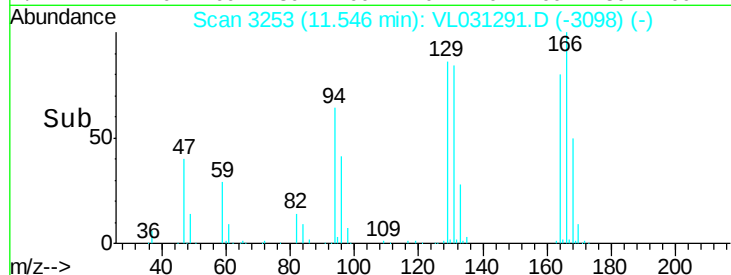
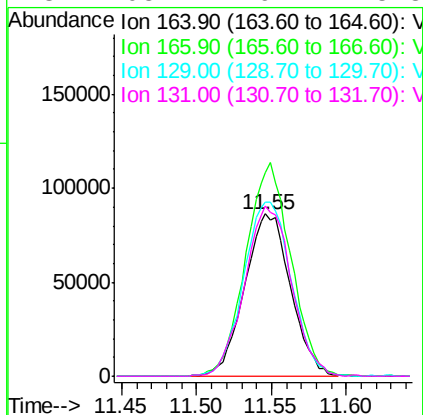
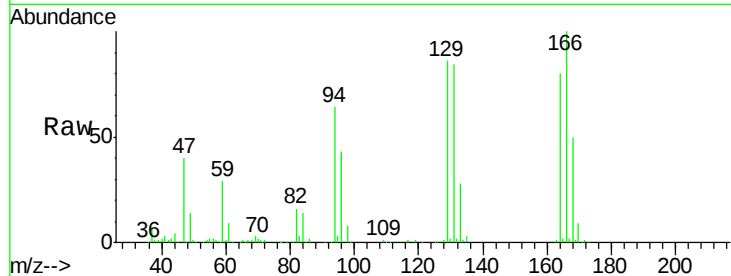
ClientSampled :

EP1-SV-9

| Tot Ion   | 164   | Resp  | 184658 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 166       | 125.4 | 100.6 | 151.0  |
| 129       | 107.5 | 82.9  | 124.3  |
| 131       | 105.2 | 79.2  | 118.8  |

Manual Integrations  
APPROVED

MMDadoda  
12/22/2017 4:55:10 PM



#53

Toluene

Concen: 3.17 ppbv

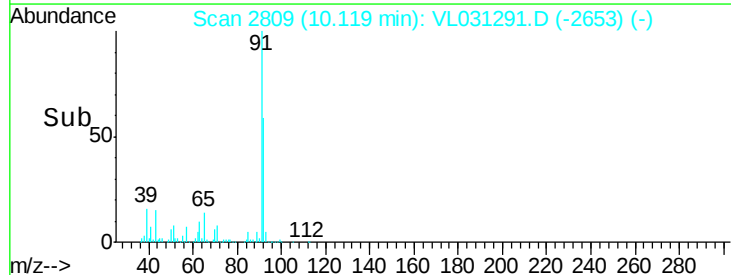
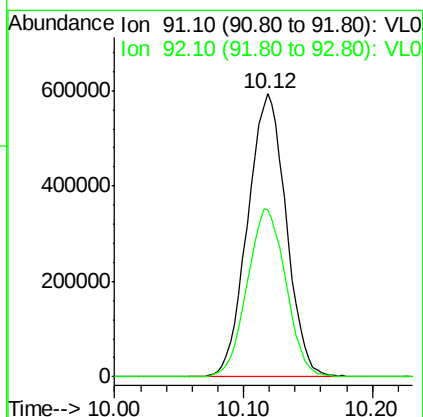
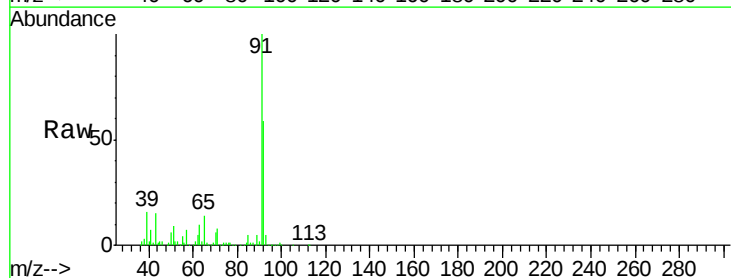
RT: 10.12 min Scan# 2809

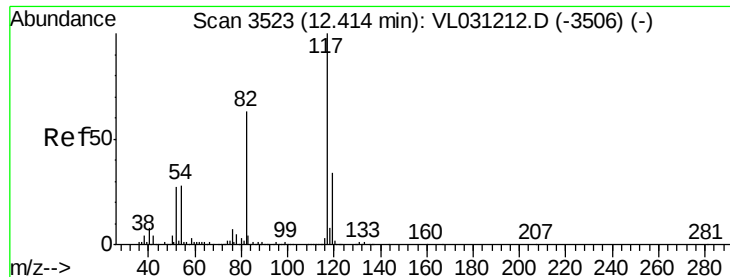
Delta R.T. 0.00 min

Lab File: VL031291.D

Acq: 21 Dec 2017 5:14

| Tgt Ion   | 91    | Resp  | 1233392 |
|-----------|-------|-------|---------|
| Ion Ratio | Lower | Upper |         |
| 91        | 100   |       |         |
| 92        | 59.8  | 49.1  | 73.7    |





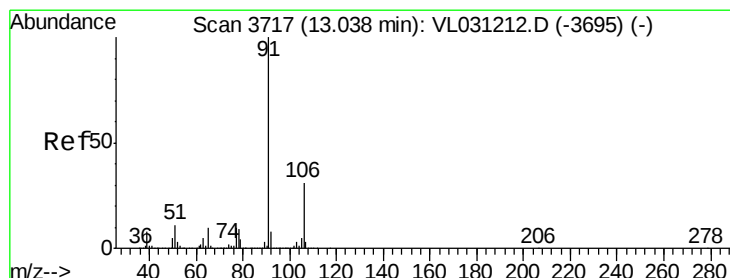
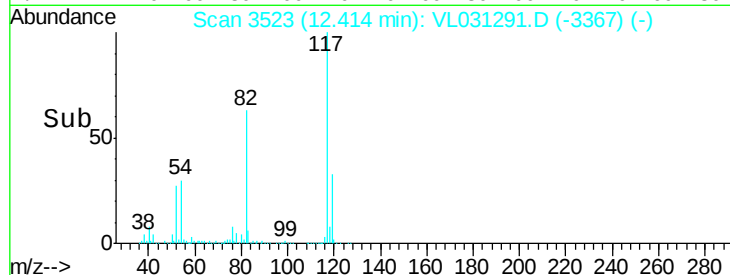
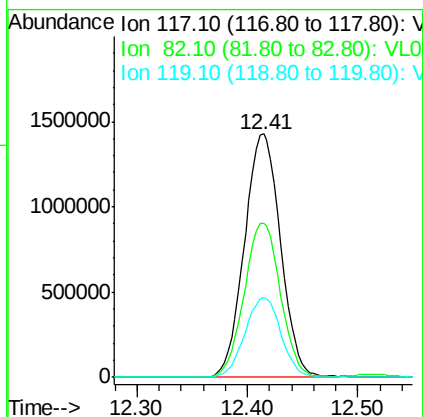
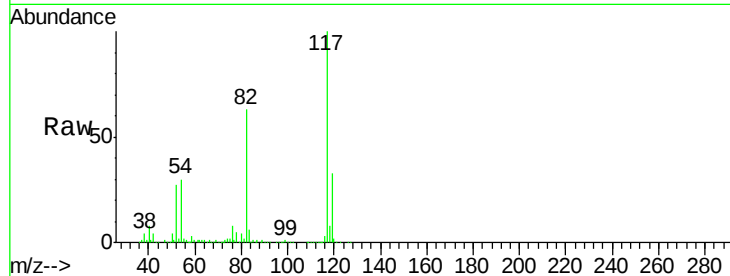
#55  
Chlorobenzene-d5  
Concen: 10.00 ppbv  
RT: 12.41 min Scan# 3523  
Delta R.T. 0.00 min  
Lab File: VL031291.D  
Acq: 21 Dec 2017 5:14

Instrument :  
MSVOA\_L  
ClientSampleId :  
EP1-SV-9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 63.5  | 48.1  | 72.1  |
| 119     | 32.7  | 23.1  | 34.7  |

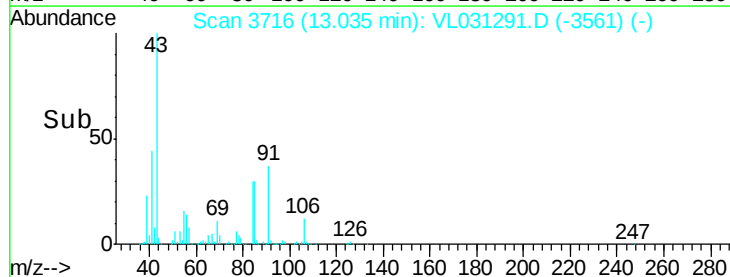
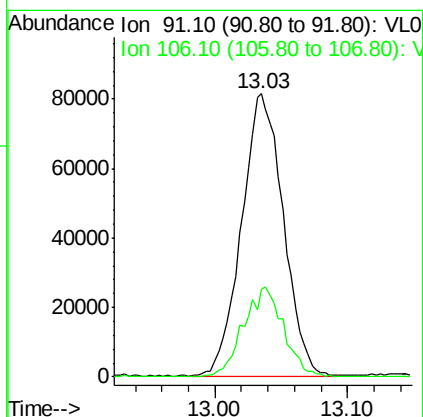
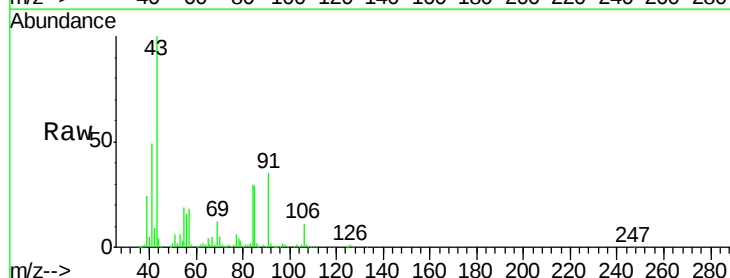
Manual Integrations  
APPROVED

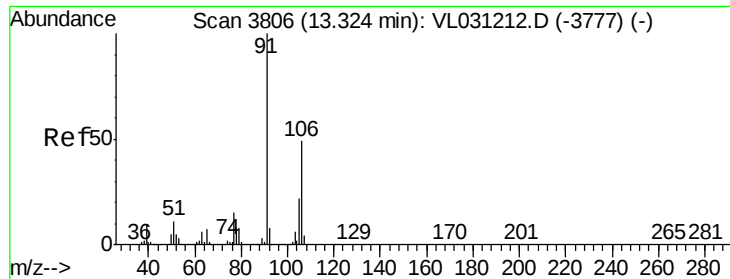
MMDadoda  
12/22/2017 4:55:10 PM



#58  
Ethyl Benzene  
Concen: 0.33 ppbv  
RT: 13.03 min Scan# 3716  
Delta R.T. -0.00 min  
Lab File: VL031291.D  
Acq: 21 Dec 2017 5:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 31.3  | 25.1  | 37.7  |





#59

m/p-Xylene

Concen: 0.98 ppbv

RT: 13.29 min Scan# 3796

Delta R.T. -0.03 min

Lab File: VL031291.D

Acq: 21 Dec 2017 5:14

Instrument :

MSVOA\_L

ClientSampled :

EP1-SV-9

Tot Ion: 91 Resp: 419804

Ion Ratio Lower Upper

91 100

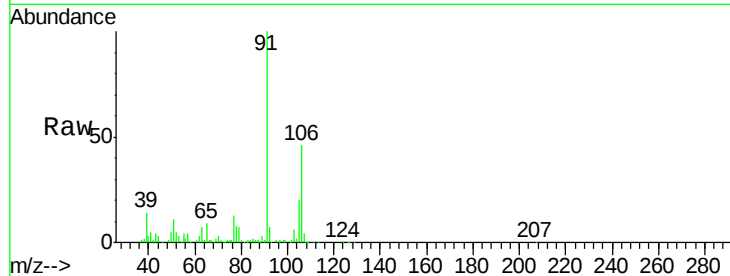
106 47.8 38.5 57.7

Manual Integrations

APPROVED

MMDadoda

12/22/2017 4:55:10 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.29

150000

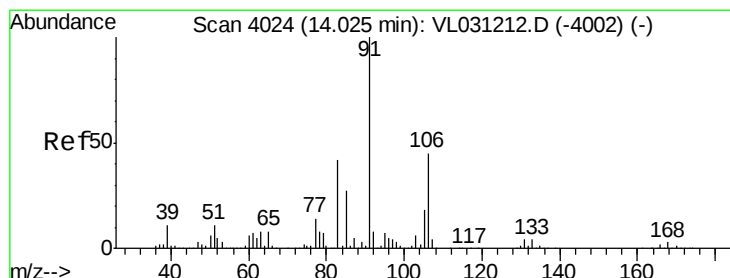
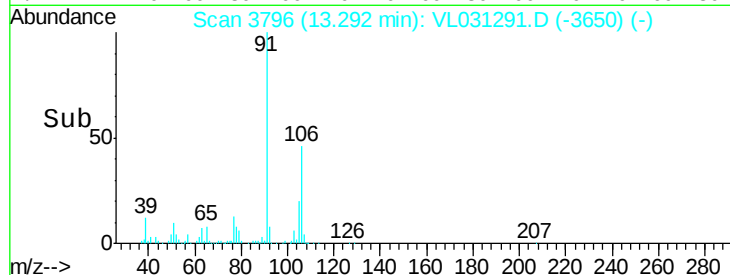
100000

50000

0

Time-->

13.20 13.30 13.40



#60

o-Xylene

Concen: 0.38 ppbv

RT: 14.02 min Scan# 4022

Delta R.T. -0.01 min

Lab File: VL031291.D

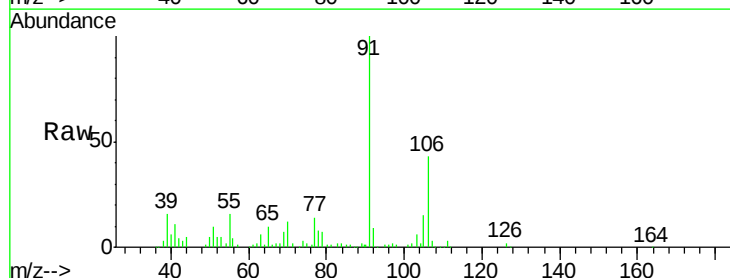
Acq: 21 Dec 2017 5:14

Tgt Ion: 91 Resp: 162135

Ion Ratio Lower Upper

91 100

106 46.1 22.7 68.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

14.02

80000

60000

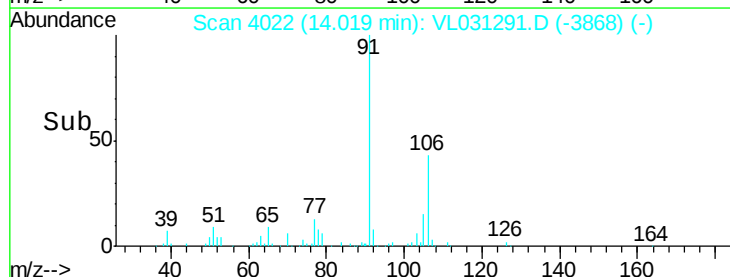
40000

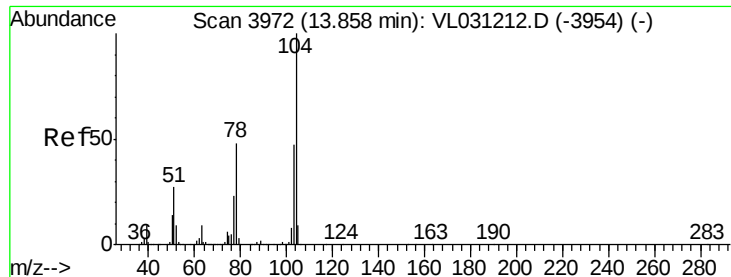
20000

0

Time-->

13.95 14.00 14.05





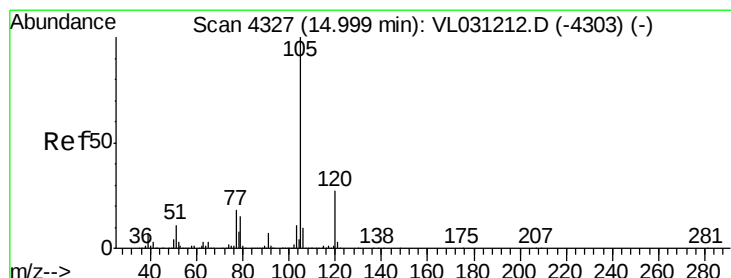
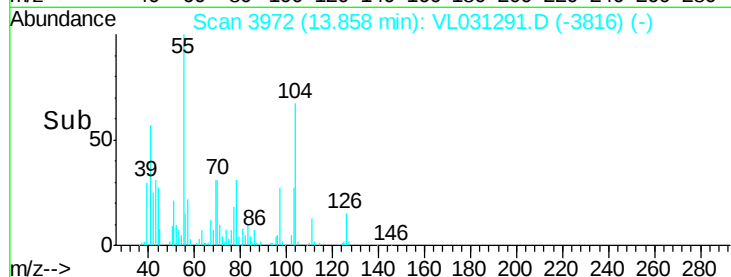
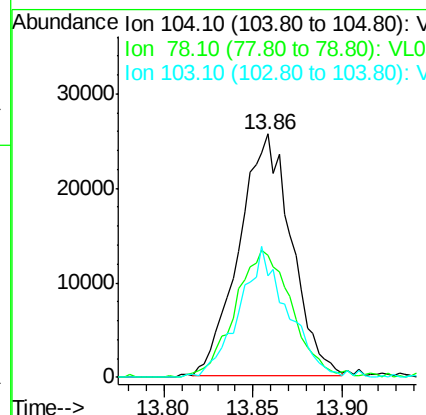
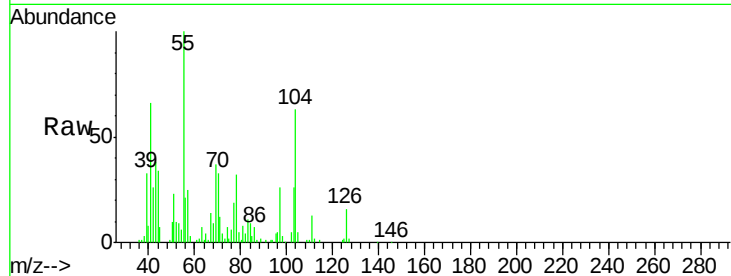
#61  
Stvrene  
Concen: 0.42 ppbv  
RT: 13.86 min Scan# 3972  
Delta R.T. 0.00 min  
Lab File: VL031291.D  
Acq: 21 Dec 2017 5:14

Instrument :  
MSVOA\_L  
ClientSampled :  
EP1-SV-9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 57.1  | 39.1  | 58.7  |
| 103     | 50.3  | 37.3  | 55.9  |

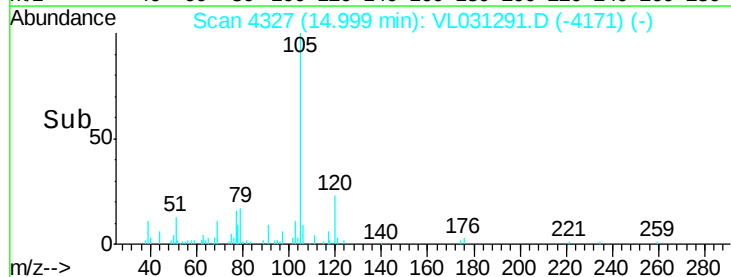
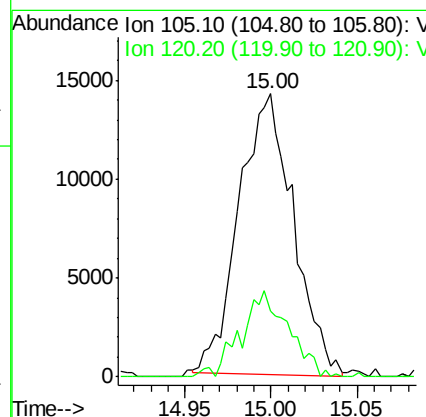
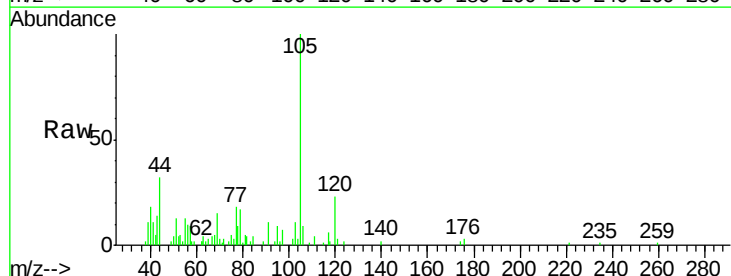
Manual Integrations  
APPROVED

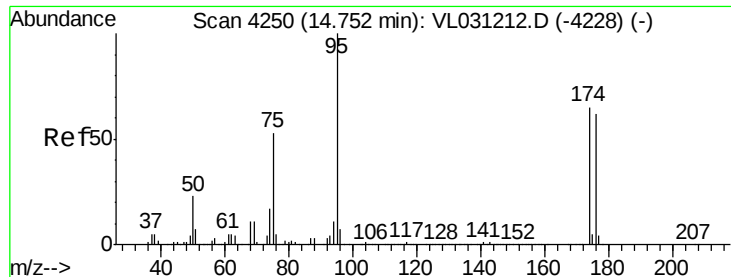
MMDadoda  
12/22/2017 4:55:10 PM



#62  
Isopropylbenzene  
Concen: 0.06 ppbv  
RT: 15.00 min Scan# 4327  
Delta R.T. 0.00 min  
Lab File: VL031291.D  
Acq: 21 Dec 2017 5:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 26.8  | 21.0  | 31.6  |





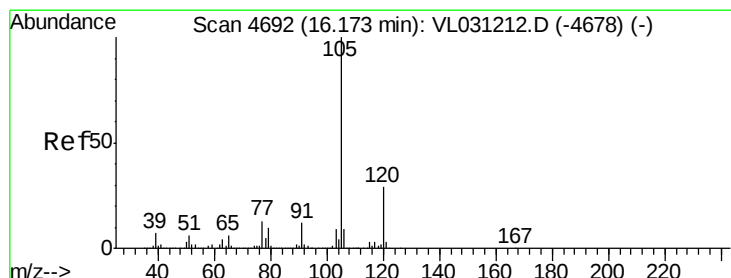
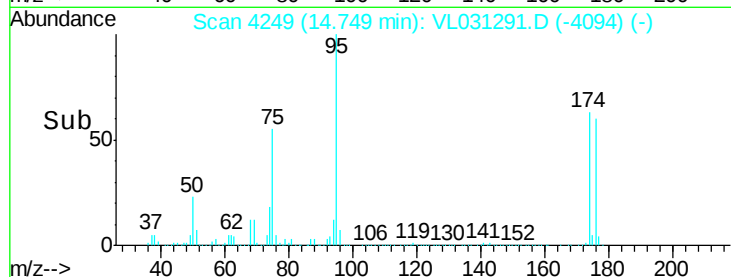
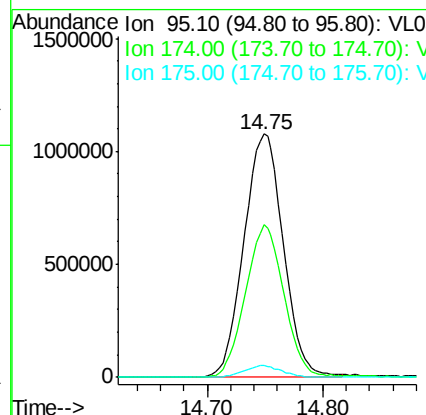
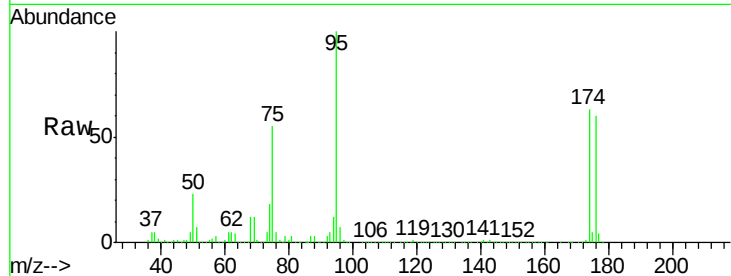
#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 11.07 ppbv  
 RT: 14.75 min Scan# 4249  
 Delta R.T. -0.00 min  
 Lab File: VL031291.D  
 Acq: 21 Dec 2017 5:14

Instrument :  
 MSVOA\_L  
 ClientSampled :  
 EP1-SV-9

Tot Ion: 95 Resp: 2550255  
 Ion Ratio Lower Upper  
 95 100  
 174 61.8 52.5 78.7  
 175 4.6 4.1 6.1

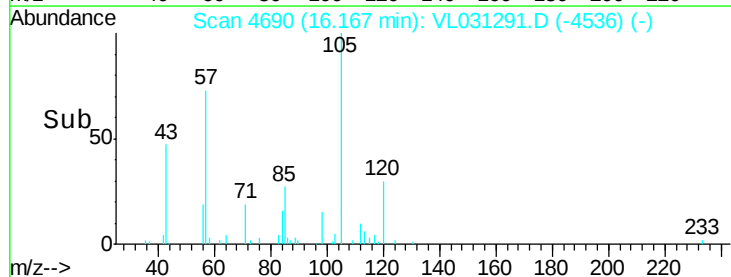
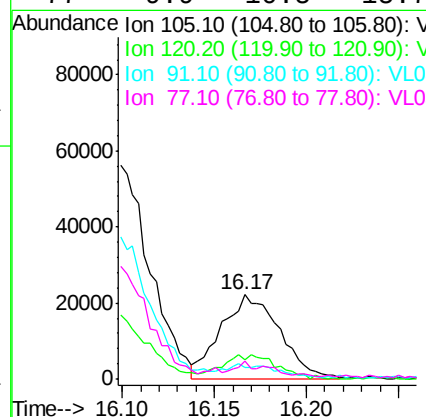
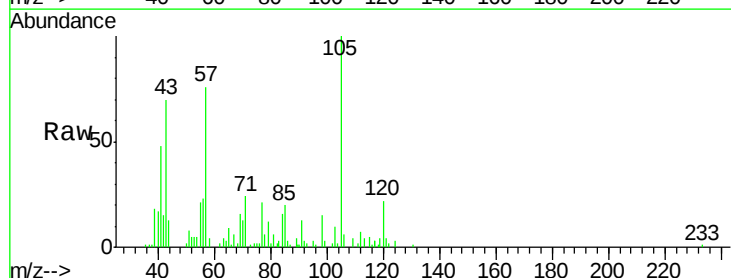
Manual Integrations  
 APPROVED

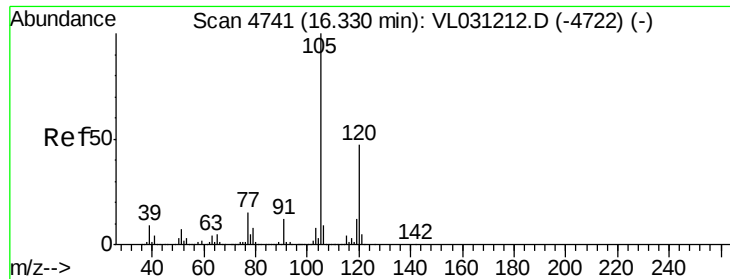
MMDadoda  
 12/22/2017 4:55:10 PM



#72  
 4-Ethyltoluene  
 Concen: 0.10 ppbv m  
 RT: 16.17 min Scan# 4690  
 Delta R.T. -0.01 min  
 Lab File: VL031291.D  
 Acq: 21 Dec 2017 5:14

Tgt Ion: 105 Resp: 49021  
 Ion Ratio Lower Upper  
 105 100  
 120 28.1 24.2 36.2  
 91 15.5 9.8 14.8#  
 77 9.9 10.5 15.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.12 ppbv

RT: 16.33 min Scan# 4740

Delta R.T. -0.00 min

Lab File: VL031291.D

Acq: 21 Dec 2017 5:14

Instrument :

MSVOA\_L

ClientSampled :

EP1-SV-9

Tot Ion:105 Resp: 48366

Ion Ratio Lower Upper

105 100

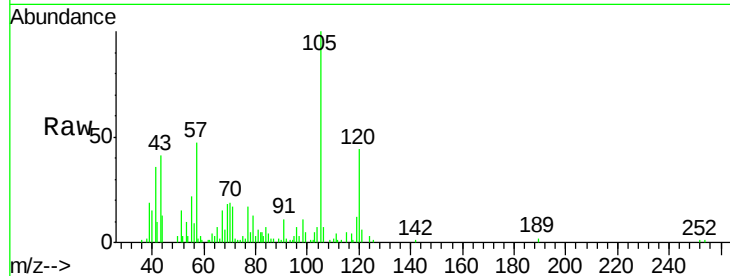
120 43.5 37.8 56.6

Manual Integrations

APPROVED

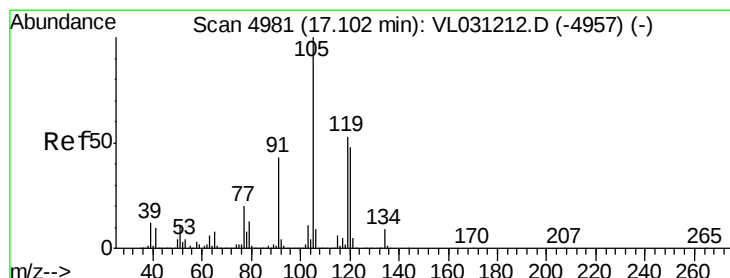
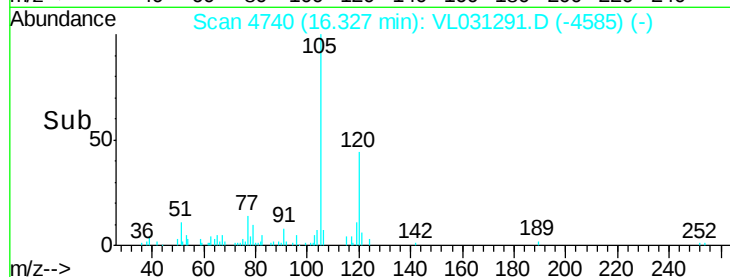
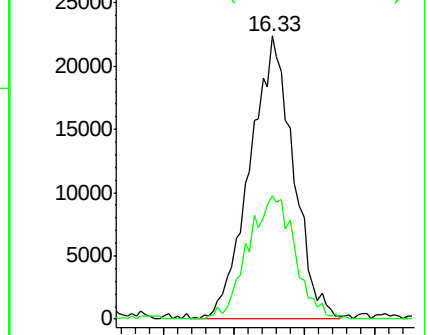
MMDadoda

12/22/2017 4:55:10 PM



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: 0.24 ppbv

RT: 17.09 min Scan# 4978

Delta R.T. -0.01 min

Lab File: VL031291.D

Acq: 21 Dec 2017 5:14

Tgt Ion:105 Resp: 105376

Ion Ratio Lower Upper

105 100

120 42.4 38.6 58.0

91 5.2 34.2 51.4#

77 6.4 16.1 24.1#

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

