

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\  
 Data File : VL036210.D  
 Acq On : 13 Jan 2021 2:34  
 Operator : SY/AP  
 Sample : VSTDICCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Manual Integrations  
 APPROVED

MMDadoda  
 1/14/2021 6:53:43 PM

Quant Time: Jan 14 15:56:23 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jan 14 2021  
 QLast Update : Wed Jan 13 05:46:16 2021  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.66  | 49   | 1565577  | 10.00 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 7.17  | 114  | 3468147  | 10.00 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 12.09 | 117  | 3225561m | 10.00 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 14.42  | 95    | 2775739  | 10.73    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 107.30% |

| Target Compounds               | R.T. | QIon | Response | Conc   | Units  | Ovalue |
|--------------------------------|------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 3.04 | 85   | 1777179  | 9.669  | ppbv   | 100    |
| 3) Chlorodifluoromethane       | 2.98 | 51   | 1750292  | 9.772  | ppbv   | 100    |
| 4) Chloromethane               | 3.13 | 50   | 865416   | 9.819  | ppbv   | 100    |
| 5) Vinyl Chloride              | 3.25 | 62   | 829901   | 8.543  | ppbv   | 100    |
| 6) Bromomethane                | 3.47 | 94   | 465963m  | 9.371  | ppbv   |        |
| 7) Chloroethane                | 3.55 | 64   | 293998m  | 8.986  | ppbv   |        |
| 8) Dichlorotetrafluoroethane   | 3.18 | 85   | 1819171  | 9.100  | ppbv   | 100    |
| 9) Propene                     | 3.00 | 41   | 778842   | 8.763  | ppbv   | 100    |
| 10) Heptane                    | 8.12 | 43   | 2066705  | 9.117  | ppbv   | 100    |
| 11) Trichlorofluoromethane     | 3.94 | 101  | 1894811  | 8.989  | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluoroet | 4.48 | 101  | 1168644  | 8.304  | ppbv   | 100    |
| 13) Ethanol                    | 3.60 | 45   | 113161   | 9.193  | ppbv   | 98     |
| 14) Bromoethene                | 3.73 | 108  | 542738m  | 9.305  | ppbv   |        |
| 15) Acetone                    | 3.84 | 43   | 1586808m | 8.564  | ppbv   |        |
| 16) 1,3-Butadiene              | 3.32 | 39   | 843382   | 9.018  | ppbv   | 100    |
| 17) tert-Butyl alcohol         | 4.29 | 59   | 1449907m | 8.313  | ppbv   |        |
| 18) 1,1-Dichloroethene         | 4.28 | 96   | 523994   | 8.383  | ppbv   | 100    |
| 19) Isopropyl Alcohol          | 3.96 | 45   | 996991   | 8.807  | ppbv   | 99     |
| 20) Methylene Chloride         | 4.34 | 84   | 473076m  | 6.373  | ppbv   |        |
| 21) Allyl Chloride             | 4.40 | 41   | 1000187  | 8.327  | ppbv   | 100    |
| 22) trans-1,2-Dichloroethene   | 4.88 | 96   | 506407   | 8.142  | ppbv   | 100    |
| 23) Vinyl Acetate              | 5.07 | 43   | 2238961  | 9.088  | ppbv   | 100    |
| 24) 1,1-Dichloroethane         | 5.01 | 63   | 1509936  | 8.713  | ppbv   | 100    |
| 25) Ethyl Acetate              | 5.67 | 43   | 3393065  | 9.150  | ppbv   | 100    |
| 26) Hexane                     | 5.68 | 57   | 1364056  | 8.178  | ppbv   | 100    |
| 27) Carbon Disulfide           | 4.54 | 76   | 1327899  | 8.283  | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether    | 5.03 | 73   | 1955926m | 8.437  | ppbv   |        |
| 29) Chloroform                 | 5.75 | 83   | 2091709  | 9.467  | ppbv   | 100    |
| 30) Cyclohexane                | 7.13 | 84   | 1169849  | 9.397  | ppbv   | 100    |
| 31) cis-1,2-Dichloroethene     | 5.54 | 61   | 1450804  | 9.501  | ppbv   | 100    |
| 32) 1,1,1-Trichloroethane      | 6.51 | 97   | 2070196  | 9.082  | ppbv   | 100    |
| 34) 2-Butanone                 | 5.24 | 43   | 2197974  | 9.439  | ppbv   | 99     |
| 35) Carbon Tetrachloride       | 7.01 | 117  | 2049470  | 10.129 | ppbv   | 100    |
| 36) Benzene                    | 6.89 | 78   | 2851889  | 9.659  | ppbv   | 100    |
| 37) 1,2-Dichloroethane         | 6.30 | 62   | 1742596  | 10.126 | ppbv   | 100    |
| 38) Trichloroethene            | 7.83 | 130  | 913680   | 8.380  | ppbv   | 100    |
| 39) 1,2-Dichloropropane        | 7.61 | 63   | 1179381  | 10.088 | ppbv   | 100    |
| 40) 1,4-Dioxane                | 7.83 | 88   | 357038   | 9.690  | ppbv # | 100    |
| 41) Tetrahydrofuran            | 6.04 | 42   | 1361400m | 9.969  | ppbv   |        |
| 42) Bromodichloromethane       | 7.79 | 83   | 2284495  | 10.053 | ppbv   | 100    |
| 43) Methyl Methacrylate        | 8.01 | 69   | 1278845  | 10.094 | ppbv   | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\  
 Data File : VL036210.D  
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 Sample : VSTDICCC010  
 Misc : 400ml/MSVOA L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Manual Integrations  
 APPROVED

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 1/14/2021 6:53:43 PM

Quant Time: Jan 14 15:56:23 2021  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jan 13 18:05:43 2021  
 QLast Update : Wed Jan 13 05:46:16 2021  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 44) 2,2,4-Trimethylpentane    | 7.86  | 57   | 4985160  | 9.359  | ppbv  | 100      |
| 45) t-1,3-Dichloropropene     | 9.28  | 75   | 1381385  | 10.660 | ppbv  | 100      |
| 46) cis-1,3-Dichloropropene   | 8.70  | 75   | 1687060  | 10.317 | ppbv  | 100      |
| 47) 1,1,2-Trichloroethane     | 9.47  | 97   | 1112096  | 9.863  | ppbv  | 100      |
| 48) Dibromochloromethane      | 10.30 | 129  | 1788860  | 10.597 | ppbv  | 100      |
| 49) Bromoform                 | 13.04 | 173  | 1493978  | 11.195 | ppbv  | 99       |
| 50) 4-Methyl-2-Pentanone      | 8.74  | 43   | 3467762  | 10.012 | ppbv  | 100      |
| 51) 2-Hexanone                | 10.13 | 43   | 2866773  | 10.445 | ppbv  | 100      |
| 52) Tetrachloroethene         | 11.22 | 164  | 904682   | 8.525  | ppbv  | 100      |
| 53) Toluene                   | 9.80  | 91   | 3208379  | 9.687  | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 10.61 | 107  | 1674242  | 9.908  | ppbv  | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 12.12 | 131  | 1321664  | 9.890  | ppbv  | 100      |
| 57) Chlorobenzene             | 12.15 | 112  | 2200925  | 9.676  | ppbv  | 100      |
| 58) Ethyl Benzene             | 12.71 | 91   | 4307361  | 9.680  | ppbv  | 100      |
| 59) m/p-Xylene                | 12.99 | 91   | 7176981m | 19.186 | ppbv  |          |
| 60) o-Xylene                  | 13.69 | 91   | 3364264  | 9.528  | ppbv  | 100      |
| 61) Styrene                   | 13.53 | 104  | 2425525  | 10.585 | ppbv  | 100      |
| 62) Isopropylbenzene          | 14.67 | 105  | 5066514  | 9.645  | ppbv  | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 13.68 | 83   | 2358113  | 9.835  | ppbv  | 100      |
| 64) n-propylbenzene           | 15.56 | 120  | 1296880  | 10.199 | ppbv  | 100      |
| 65) tert-Butylbenzene         | 16.74 | 119  | 4235700  | 9.805  | ppbv  | 100      |
| 66) Benzyl Chloride           | 16.99 | 91   | 1540495  | 13.900 | ppbv  | 100      |
| 67) sec-Butylbenzene          | 17.30 | 105  | 6196014  | 10.149 | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 17.65 | 119  | 5042097  | 10.373 | ppbv  | 100      |
| 70) n-Butylbenzene            | 18.55 | 91   | 5432892  | 11.111 | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 15.46 | 91   | 4061027  | 10.121 | ppbv  | 100      |
| 72) 4-Ethyltoluene            | 15.84 | 105  | 3951643  | 10.204 | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 16.00 | 105  | 3771638  | 10.176 | ppbv  | 100      |
| 74) 1,2,4-Trimethylbenzene    | 16.76 | 105  | 3737080  | 10.053 | ppbv  | 100      |
| 75) 1,3-Dichlorobenzene       | 17.00 | 146  | 1988012  | 10.596 | ppbv  | 100      |
| 76) 1,4-Dichlorobenzene       | 17.14 | 146  | 1999814  | 10.469 | ppbv  | 99       |
| 77) 1,2-Dichlorobenzene       | 17.82 | 146  | 1991230  | 10.953 | ppbv  | 100      |
| 78) Hexachloro-1,3-Butadiene  | 23.38 | 225  | 1466069  | 10.211 | ppbv  | 100      |
| 79) Naphthalene               | 22.20 | 128  | 2805272  | 14.098 | ppbv  | 100      |
| 80) Naphthalene, 2-methyl-    | 24.98 | 142  | 746883   | 18.373 | ppbv  | 89       |
| 81) 1,2,4-Trichlorobenzene    | 21.93 | 180  | 1447565  | 11.453 | ppbv  | 99       |

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

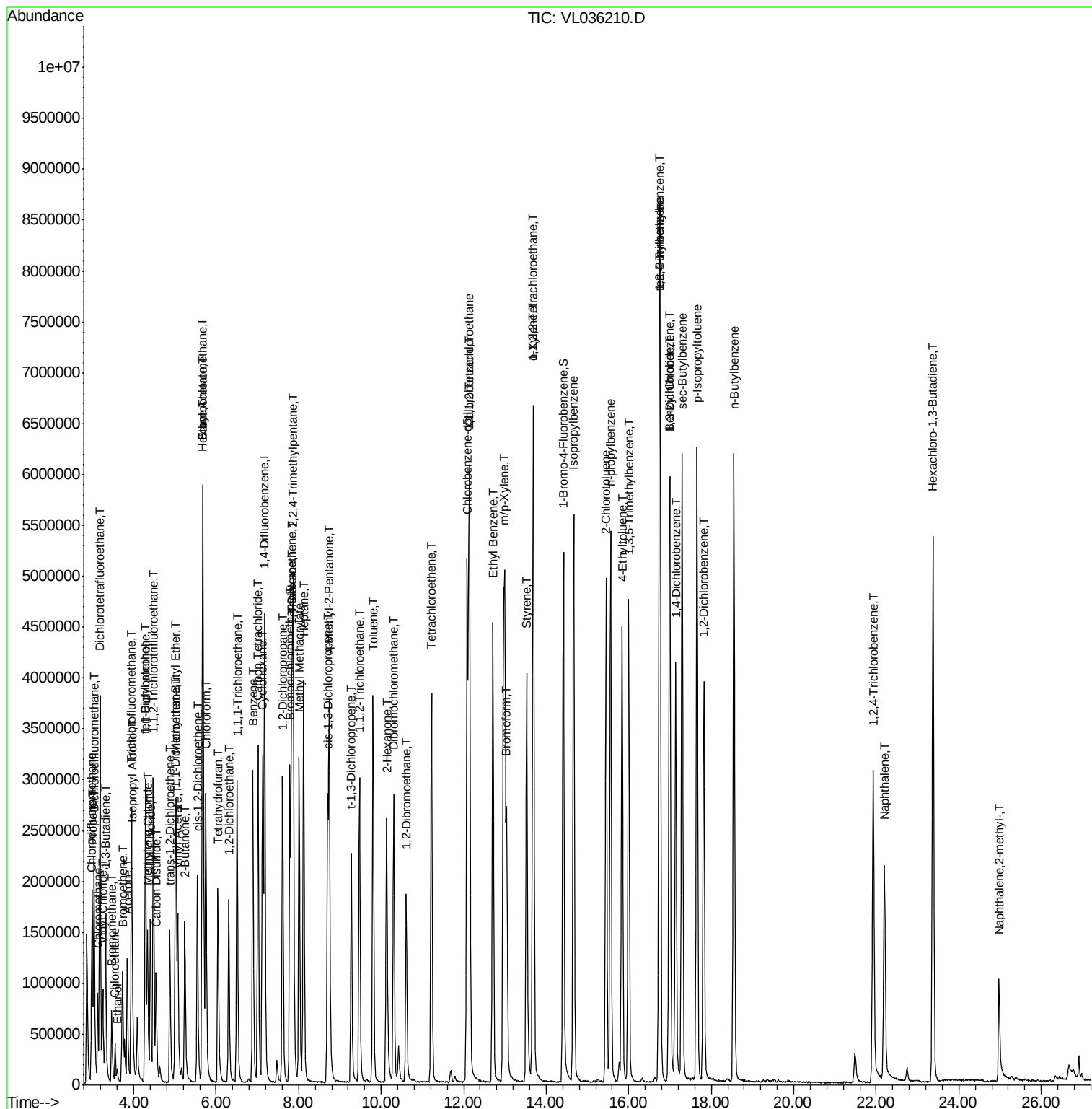
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL011321\  
Data File : VL036210.D  
Acq On : 13 Jan 2021 2:34  
Operator : SY/AP  
Sample : VSTDICCC010  
Misc : 400ml/MSVOA L  
ALS Vial : 1 Sample Multiplier: 1

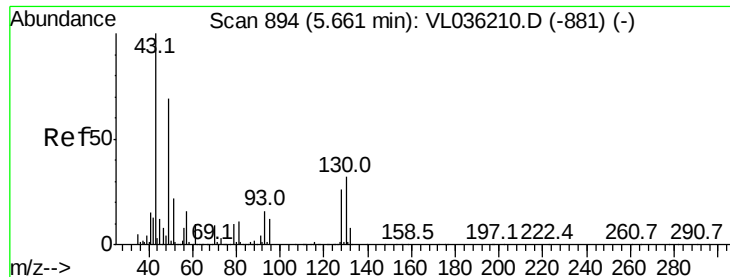
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Manual Integrations  
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1/14/2021 6:53:43 PM

Quant Time: Jan 14 15:56:23 2021  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LWed Jan  
QLast Update : Wed Jan 13 05:46:16 2021  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tot Ion: 49 Resp: 1565577

Ion Ratio Lower Upper

49 100

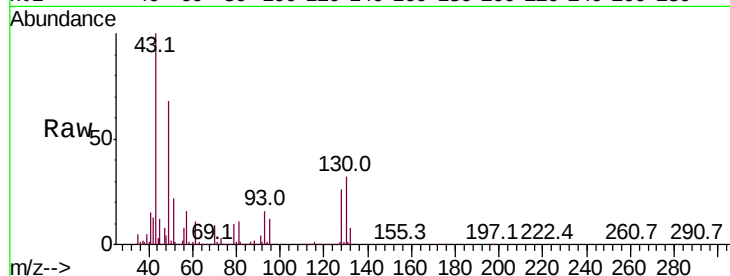
128 40.4 20.1 60.2

130 50.8 25.3 75.9

Manual Integrations  
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1/14/2021 6:53:43 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

1000000 Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

400000

200000

0

5.66

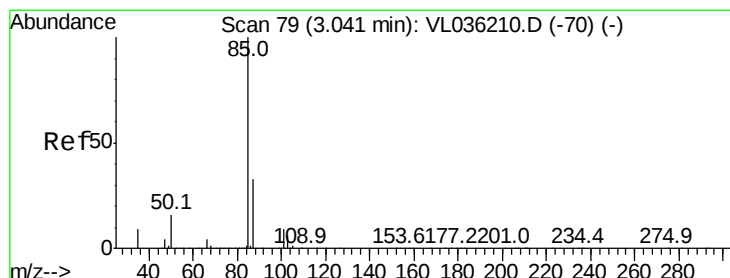
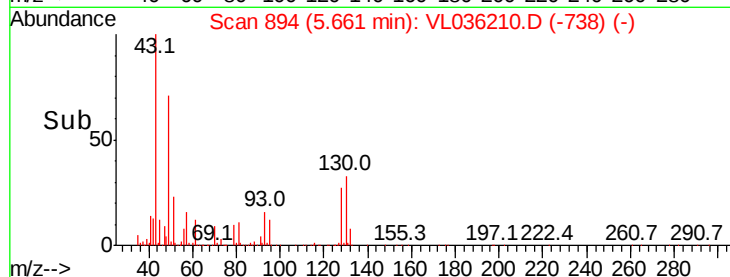
5.60

5.65

5.70

5.75

Time-->



#2

Dichlorodifluoromethane

Concen: 9.669 ppbv

RT: 3.04 min Scan# 79

Delta R.T. 0.00 min

Lab File: VL036210.D

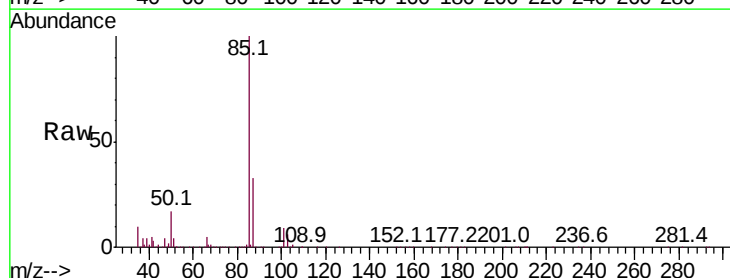
Acq: 13 Jan 2021 2:34

Tgt Ion: 85 Resp: 1777179

Ion Ratio Lower Upper

85 100

87 33.0 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

1200000 Ion 87.00 (86.70 to 87.70): VL0

1000000

800000

600000

400000

200000

0

3.04

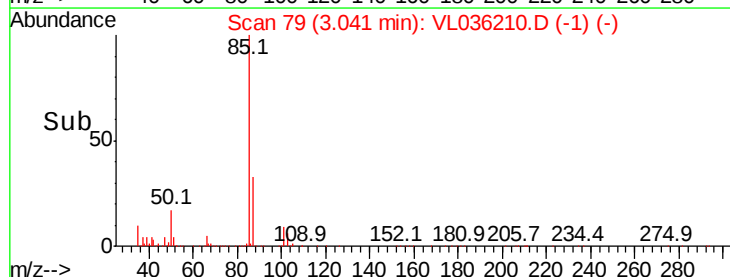
3.00

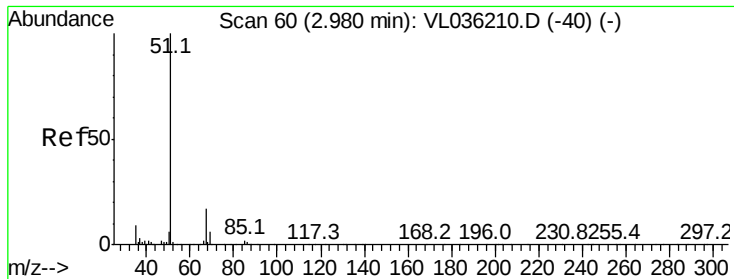
3.05

3.10

3.15

Time-->





#3

Chlorodifluoromethane

Concen: 9.772 ppbv

RT: 2.98 min Scan# 60

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tot Ion: 51 Resp: 1750292

Ion Ratio Lower Upper

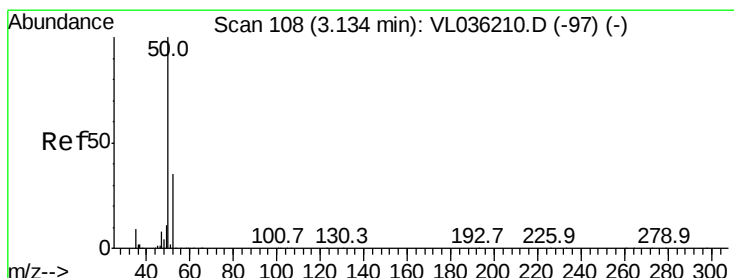
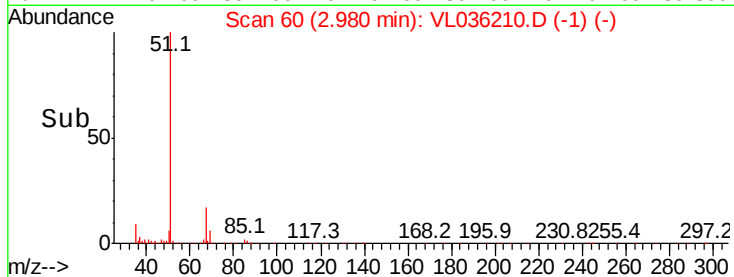
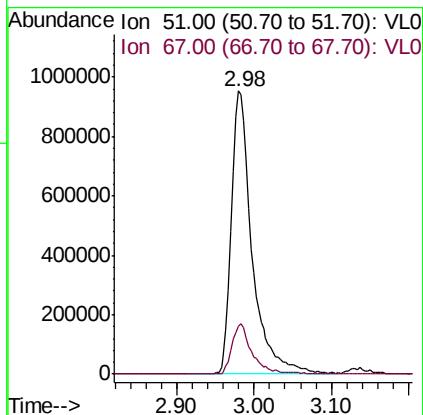
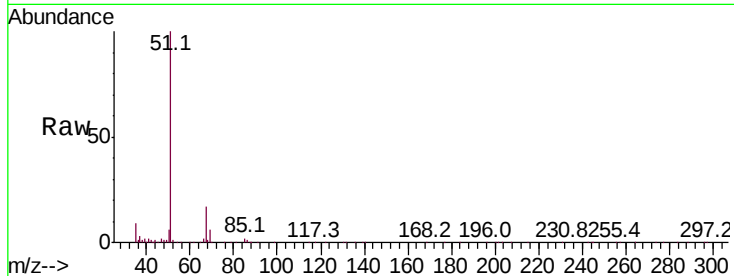
51 100

67 17.5 14.0 21.0

Manual Integrations  
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#4

Chloromethane

Concen: 9.819 ppbv

RT: 3.13 min Scan# 108

Delta R.T. 0.00 min

Lab File: VL036210.D

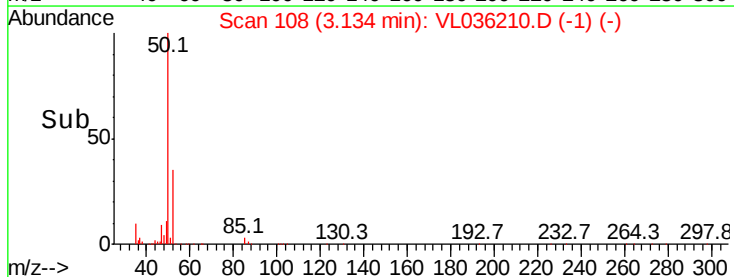
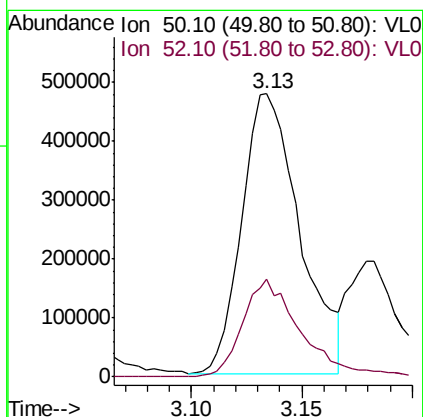
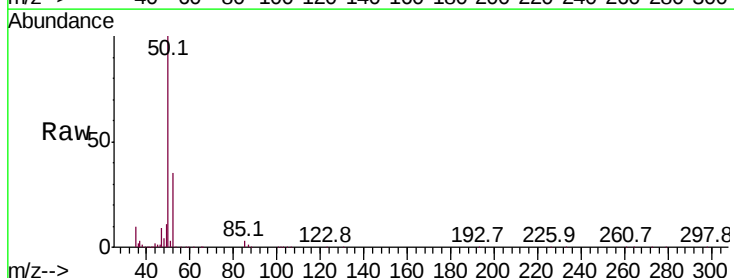
Acq: 13 Jan 2021 2:34

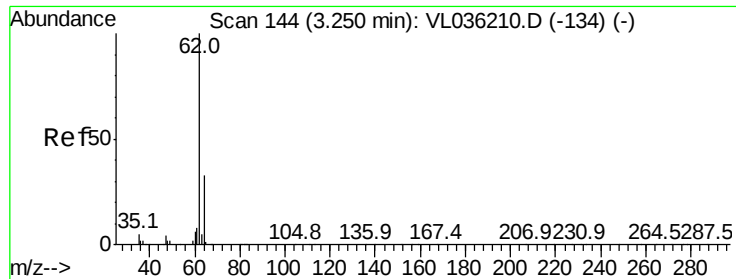
Tgt Ion: 50 Resp: 865416

Ion Ratio Lower Upper

50 100

52 34.8 27.8 41.8





#5

Vinyl Chloride

Concen: 8.543 ppbv

RT: 3.25 min Scan# 144

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 829901

Ion Ratio Lower Upper

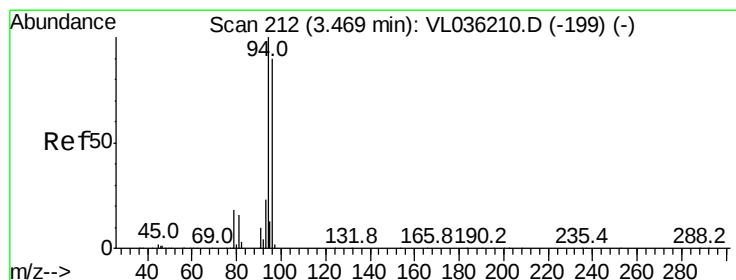
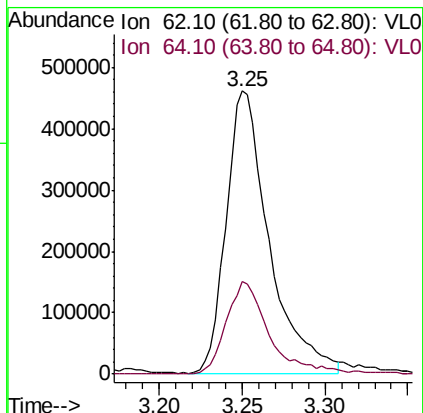
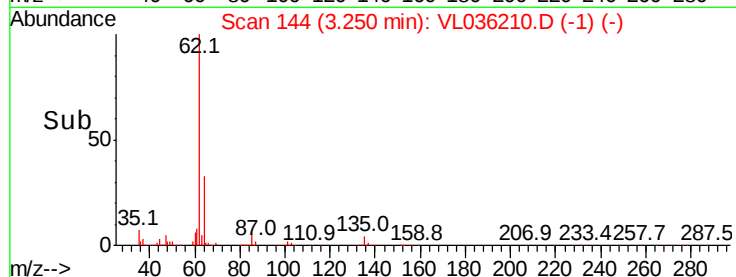
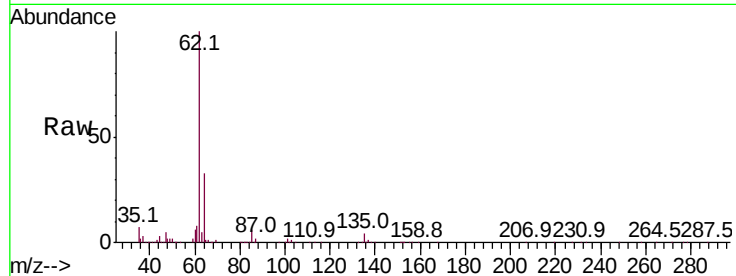
62 100

64 32.7 26.2 39.2

Manual Integrations  
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#6

Bromomethane

Concen: 9.371 ppbv m

RT: 3.47 min Scan# 212

Delta R.T. 0.00 min

Lab File: VL036210.D

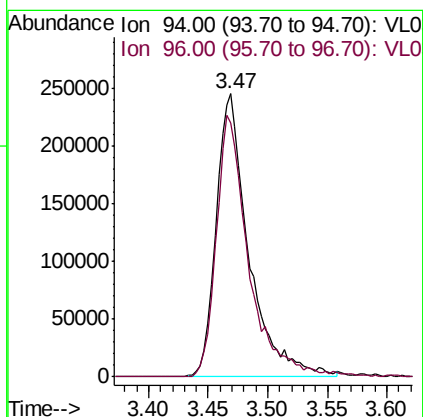
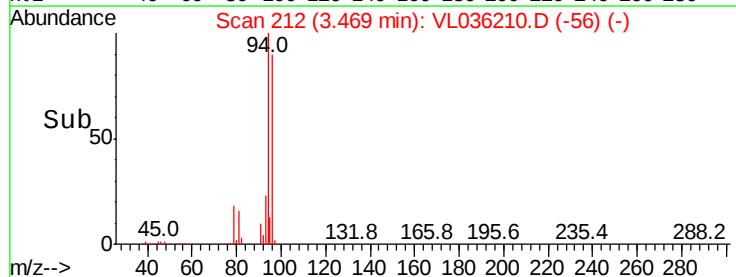
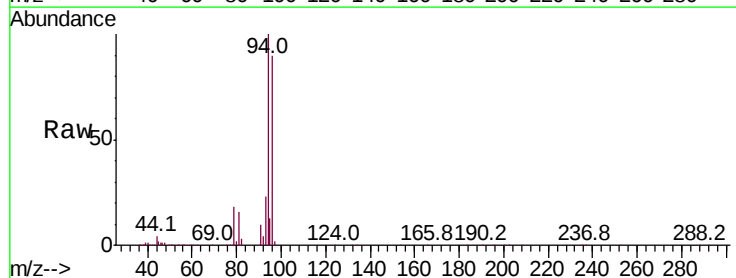
Acq: 13 Jan 2021 2:34

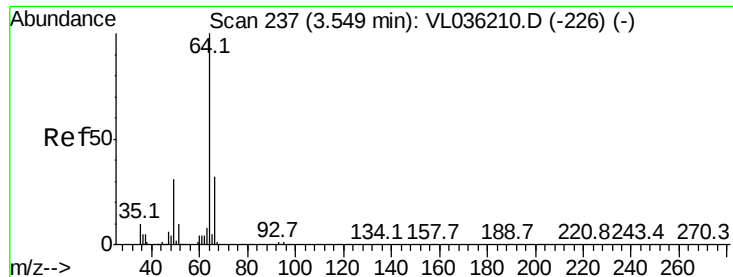
Tgt Ion: 94 Resp: 465963

Ion Ratio Lower Upper

94 100

96 89.9 71.9 107.9





#7

Chloroethane

Concen: 8.986 ppbv m

RT: 3.55 min Scan# 237

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 293998

Ion Ratio Lower Upper

64 100

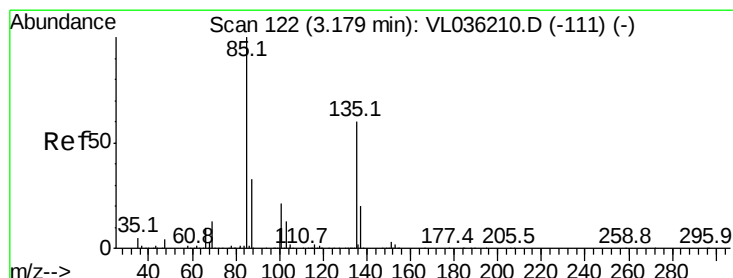
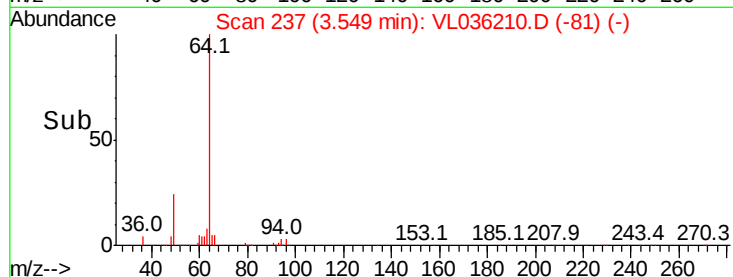
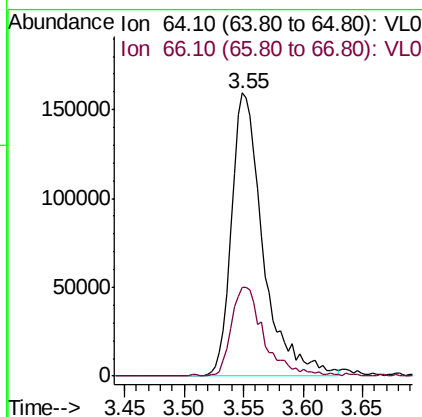
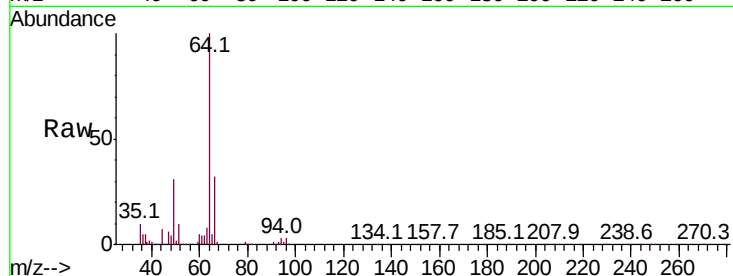
66 31.5 25.2 37.8

Manual Integrations

APPROVED

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1/14/2021 6:53:43 PM



#8

Dichlorotetrafluoroethane

Concen: 9.100 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.00 min

Lab File: VL036210.D

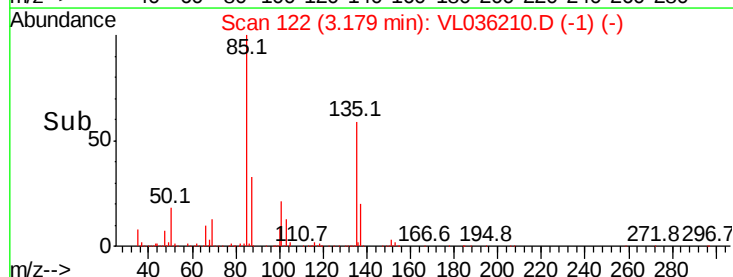
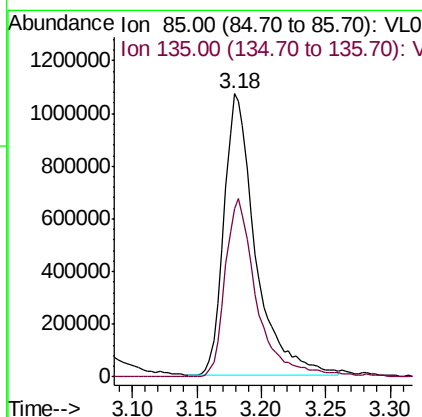
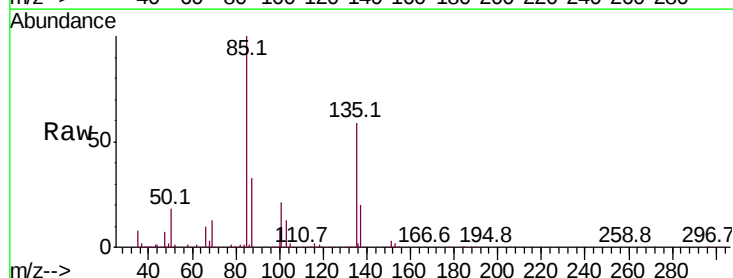
Acq: 13 Jan 2021 2:34

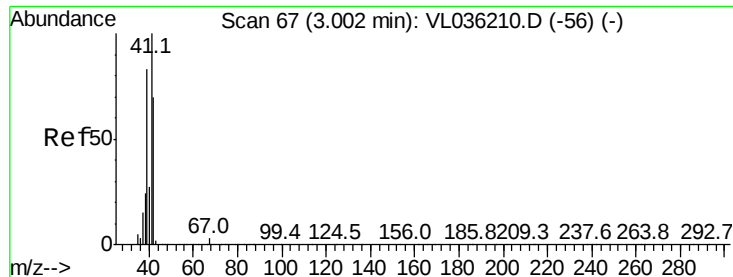
Tgt Ion: 85 Resp: 1819171

Ion Ratio Lower Upper

85 100

135 64.4 51.5 77.3





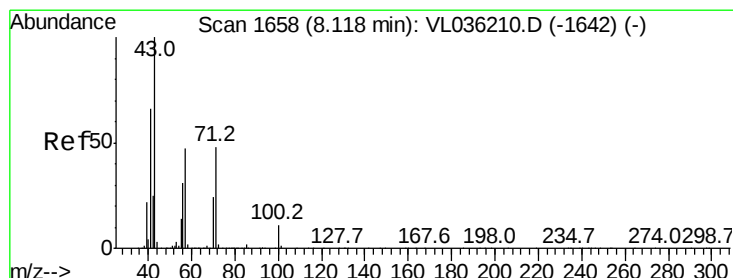
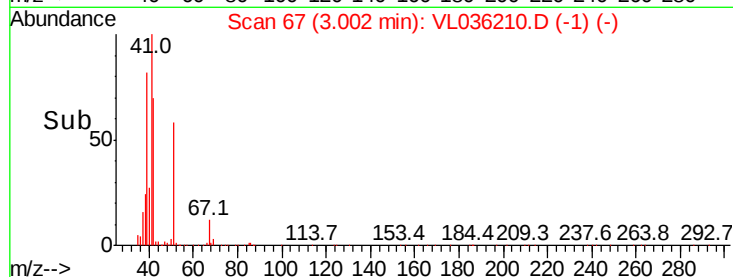
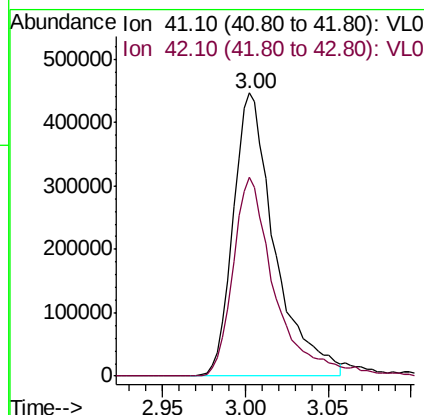
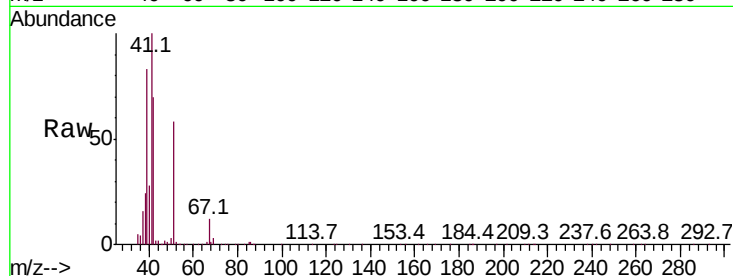
#9  
 Propene  
 Concen: 8.763 ppbv  
 RT: 3.00 min Scan# 67  
 Delta R.T. 0.00 min  
 Lab File: VL036210.D  
 Acq: 13 Jan 2021 2:34

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Tot Ion: 41 Resp: 778842  
 Ion Ratio Lower Upper  
 41 100  
 42 71.4 57.1 85.7

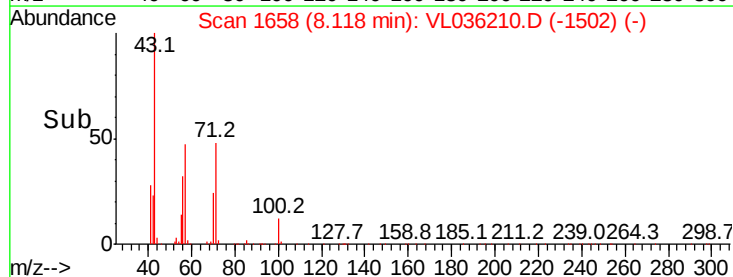
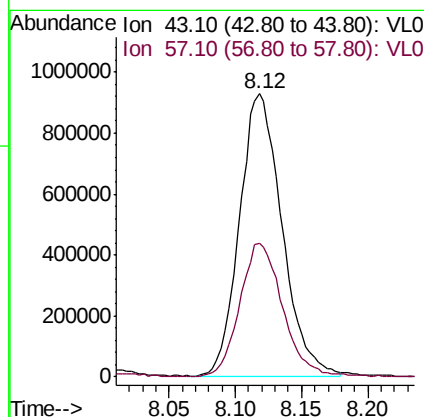
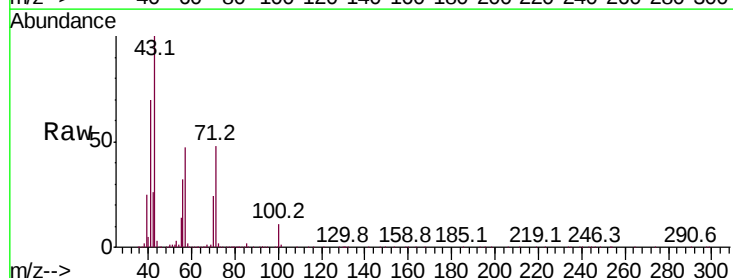
Manual Integrations  
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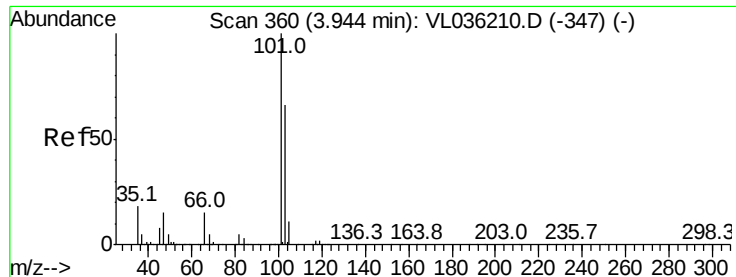
MMDadoda  
 1/14/2021 6:53:43 PM



#10  
 Heptane  
 Concen: 9.117 ppbv  
 RT: 8.12 min Scan# 1658  
 Delta R.T. 0.00 min  
 Lab File: VL036210.D  
 Acq: 13 Jan 2021 2:34

Tgt Ion: 43 Resp: 2066705  
 Ion Ratio Lower Upper  
 43 100  
 57 47.6 38.1 57.1





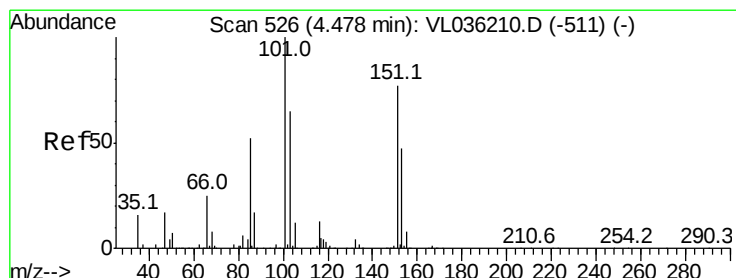
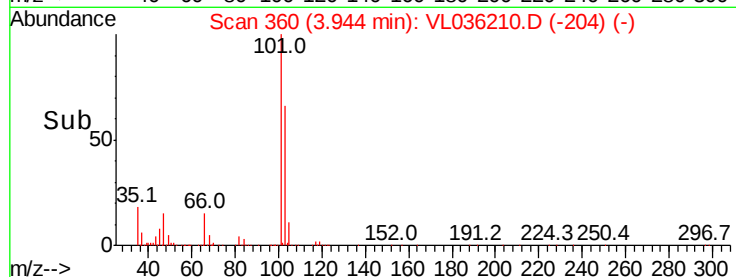
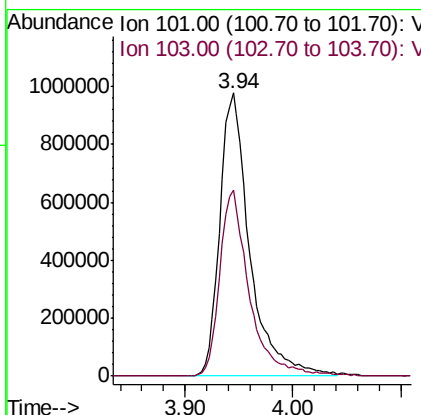
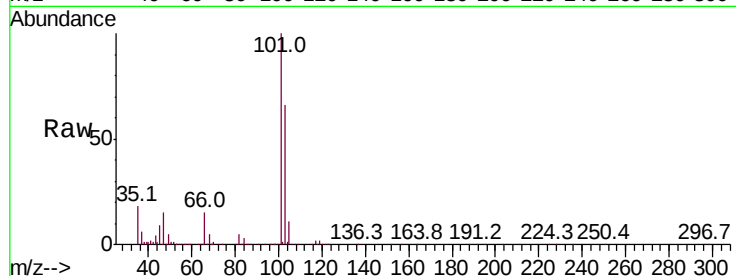
#11  
 Trichlorofluoromethane  
 Concen: 8.989 ppbv  
 RT: 3.94 min Scan# 360  
 Delta R.T. 0.00 min  
 Lab File: VL036210.D  
 Acq: 13 Jan 2021 2:34

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Tot Ion:101 Resp: 1894811  
 Ion Ratio Lower Upper  
 101 100  
 103 65.7 52.6 78.8

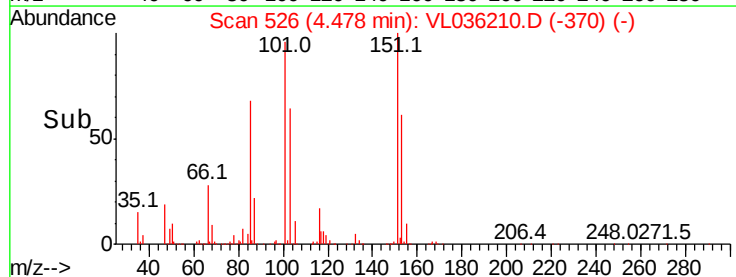
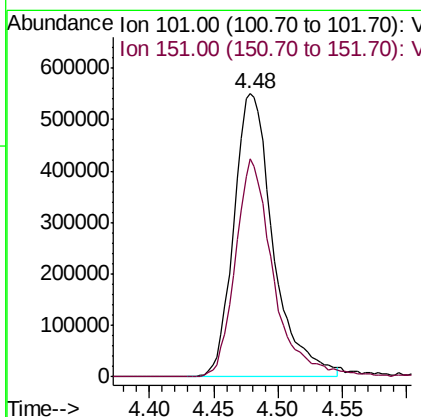
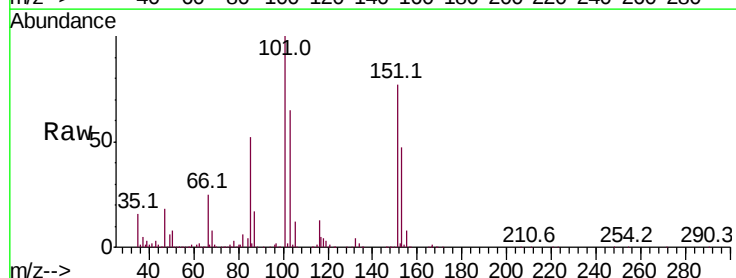
Manual Integrations  
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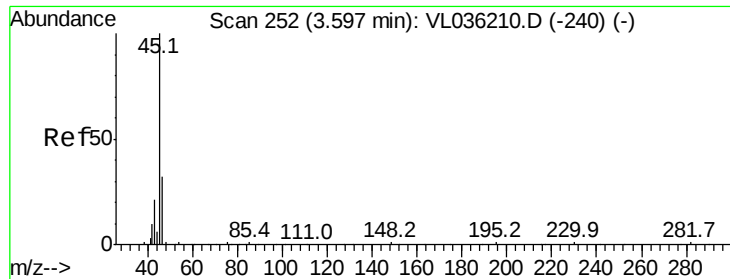
MMDadoda  
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#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 8.304 ppbv  
 RT: 4.48 min Scan# 526  
 Delta R.T. 0.00 min  
 Lab File: VL036210.D  
 Acq: 13 Jan 2021 2:34

Tgt Ion:101 Resp: 1168644  
 Ion Ratio Lower Upper  
 101 100  
 151 74.7 59.8 89.6





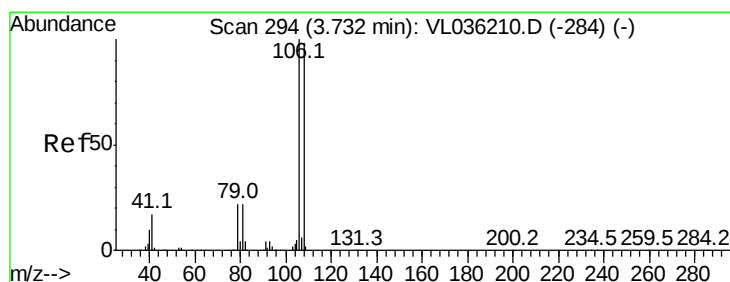
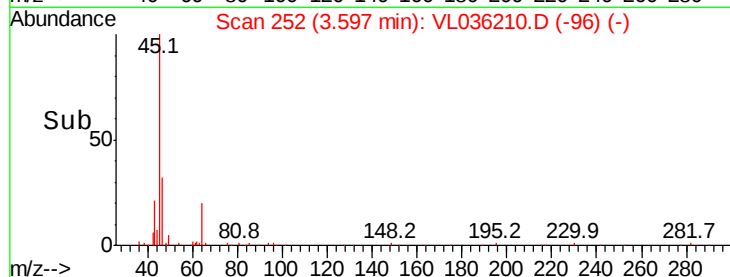
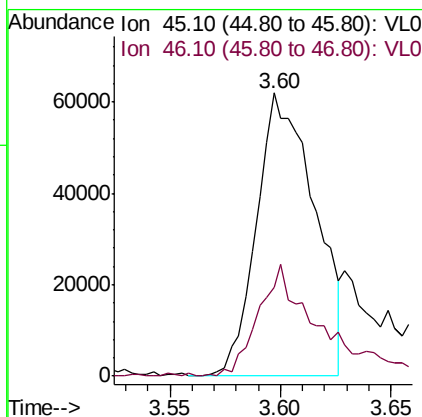
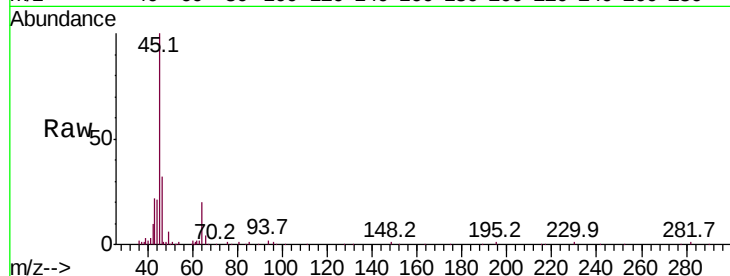
#13  
Ethanol  
Concen: 9.193 ppbv  
RT: 3.60 min Scan# 252  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 46      | 46.4  | 19.2  | 77.0  |

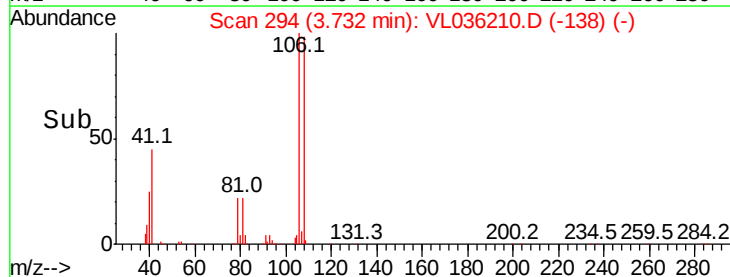
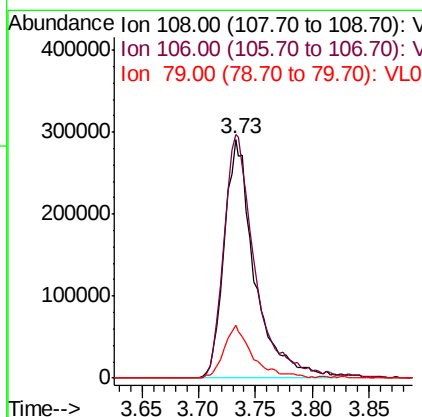
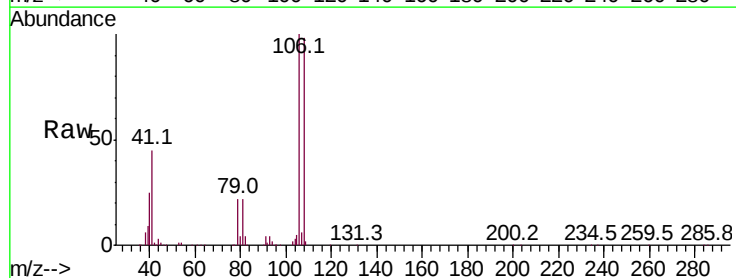
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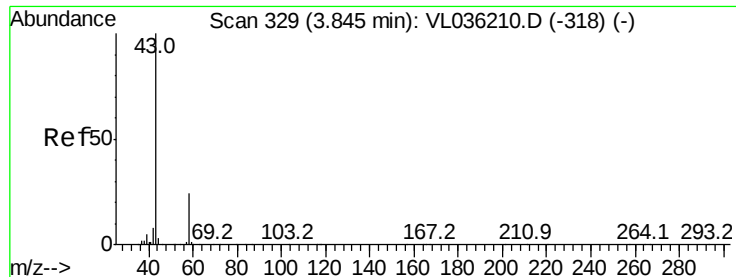
MMDadoda  
1/14/2021 6:53:43 PM



#14  
Bromoethene  
Concen: 9.305 ppbv m  
RT: 3.73 min Scan# 294  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 106     | 106.7 | 91.4  | 137.2 |
| 79      | 21.4  | 18.3  | 27.5  |





#15

Acetone

Concen: 8.564 ppbv m

RT: 3.84 min Scan# 329

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1586808

Ion Ratio Lower Upper

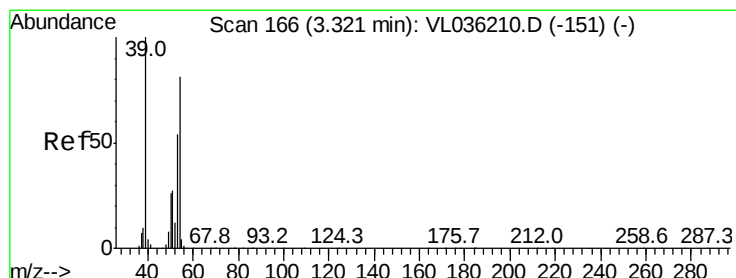
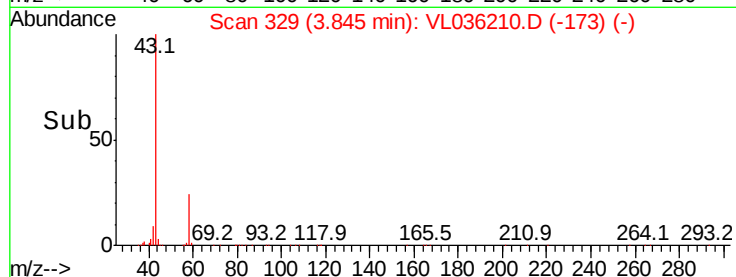
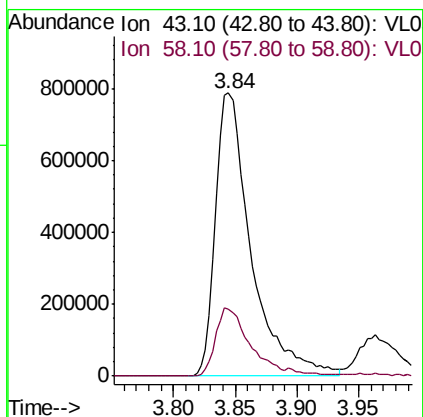
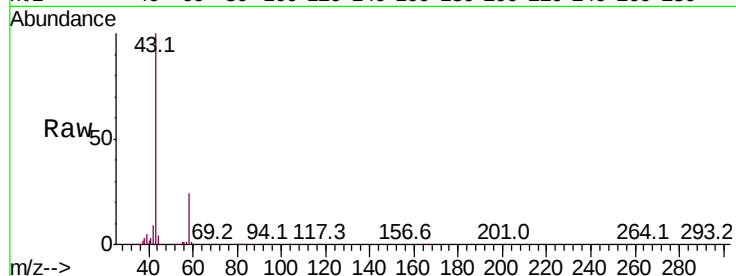
43 100

58 24.3 20.9 31.3

Manual Integrations  
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#16

1,3-Butadiene

Concen: 9.018 ppbv

RT: 3.32 min Scan# 166

Delta R.T. 0.00 min

Lab File: VL036210.D

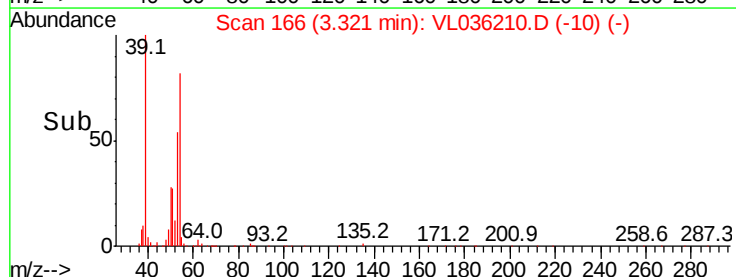
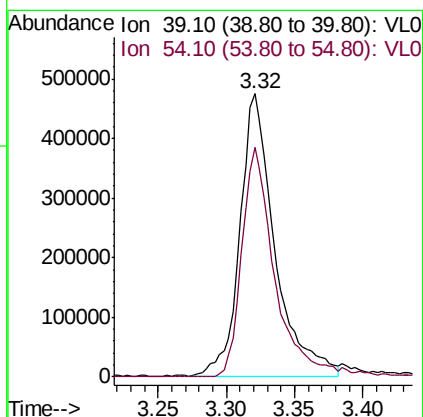
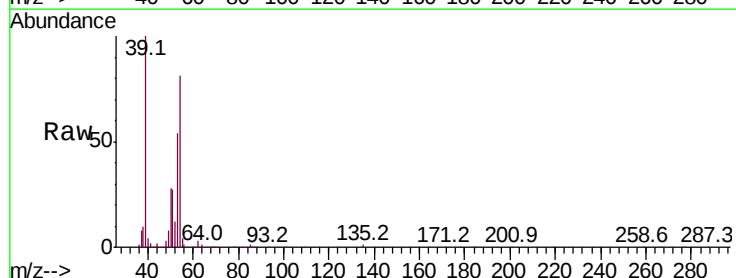
Acq: 13 Jan 2021 2:34

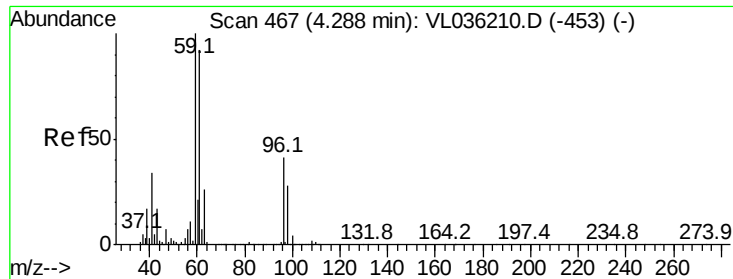
Tgt Ion: 39 Resp: 843382

Ion Ratio Lower Upper

39 100

54 78.1 62.5 93.7





#17

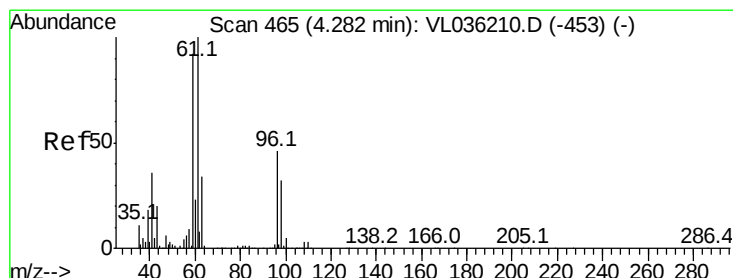
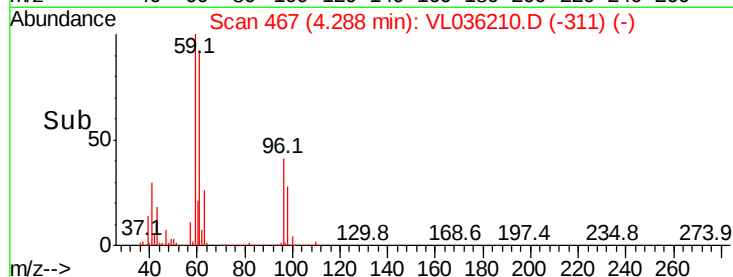
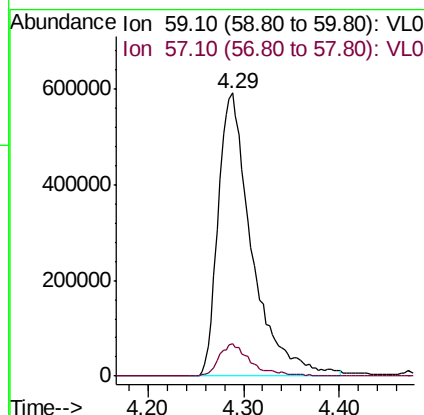
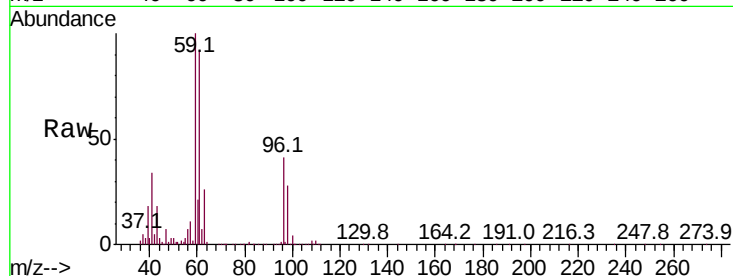
tert-Butyl alcohol  
Concen: 8.313 ppbv  
RT: 4.29 min Scan# 467  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tot Ion: 59 Resp: 1449907  
Ion Ratio Lower Upper  
59 100  
57 11.0 9.2 13.8

Manual Integrations  
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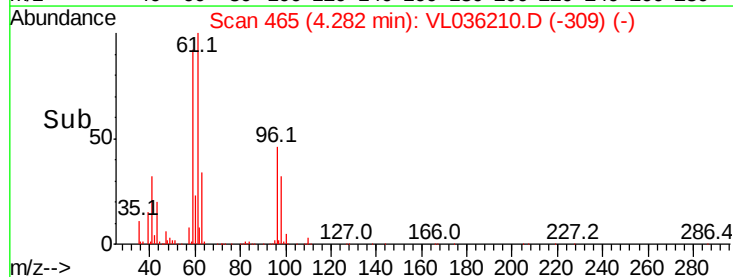
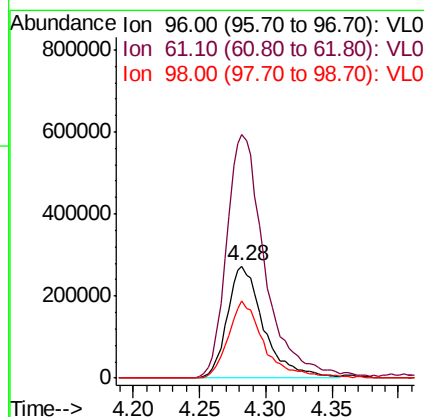
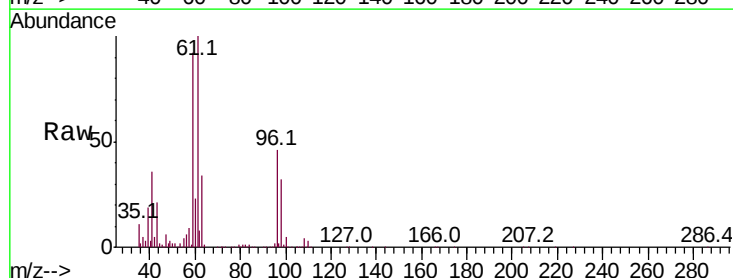
MMDadoda  
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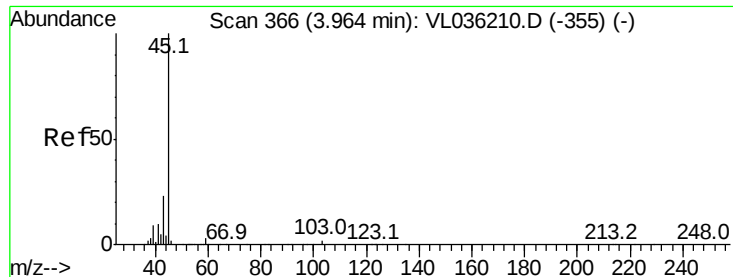


#18

1,1-Dichloroethene  
Concen: 8.383 ppbv  
RT: 4.28 min Scan# 465  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Tgt Ion: 96 Resp: 523994  
Ion Ratio Lower Upper  
96 100  
61 216.7 173.4 260.0  
98 68.6 54.9 82.3





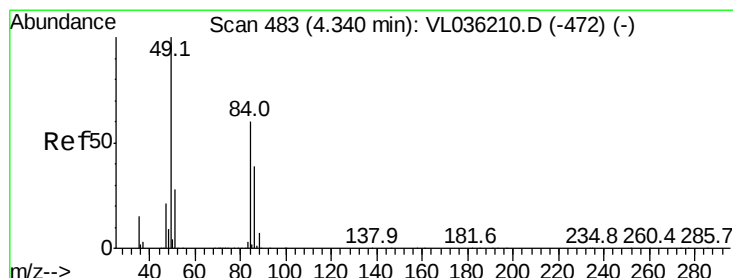
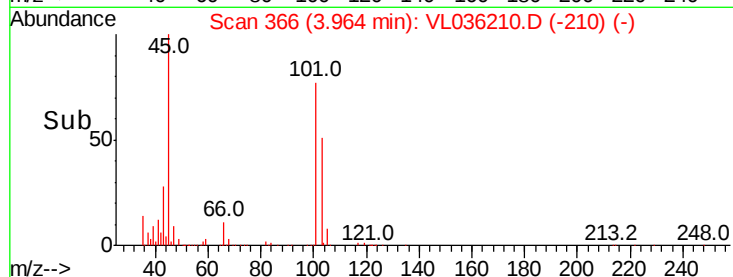
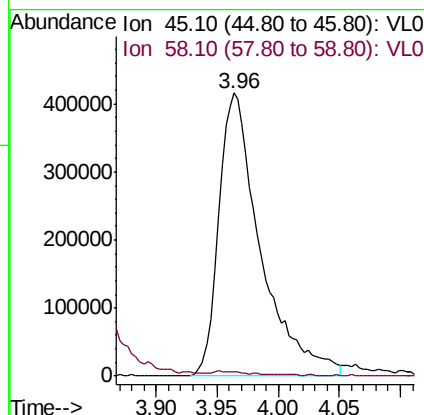
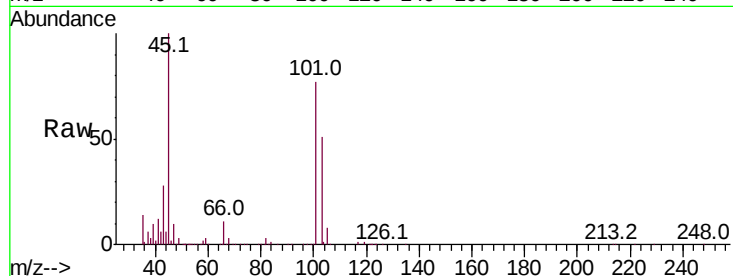
#19  
Isopropyl Alcohol  
Concen: 8.807 ppbv  
RT: 3.96 min Scan# 366  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 58      | 2.0   | 1.9   | 2.9   |

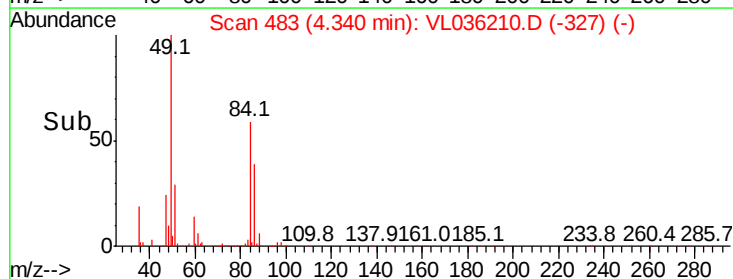
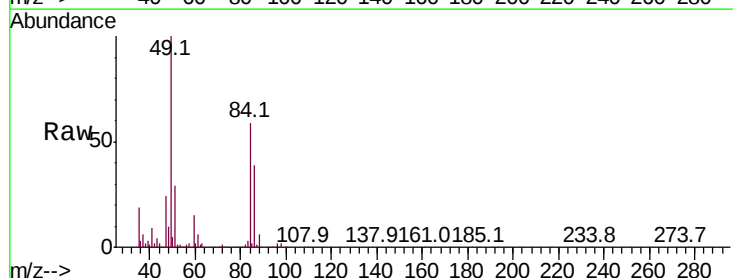
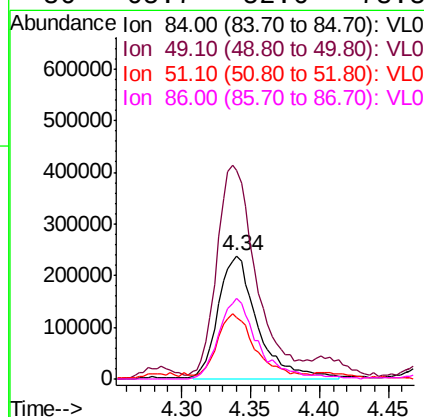
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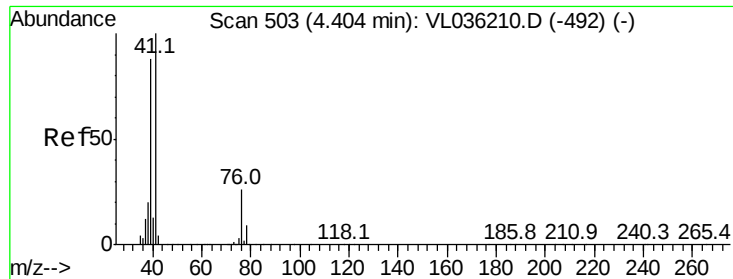
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#20  
Methylene Chloride  
Concen: 6.373 ppbv m  
RT: 4.34 min Scan# 483  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 169.6 | 134.1 | 201.1 |
| 51      | 50.0  | 37.4  | 56.0  |
| 86      | 65.7  | 52.6  | 78.8  |





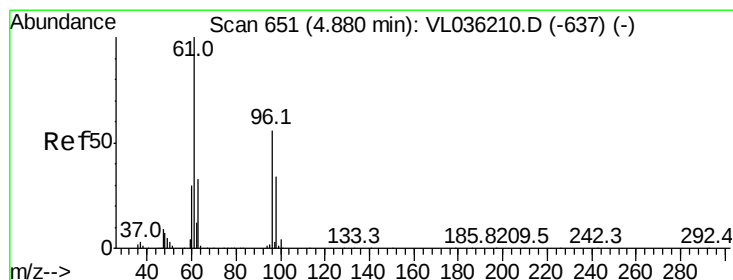
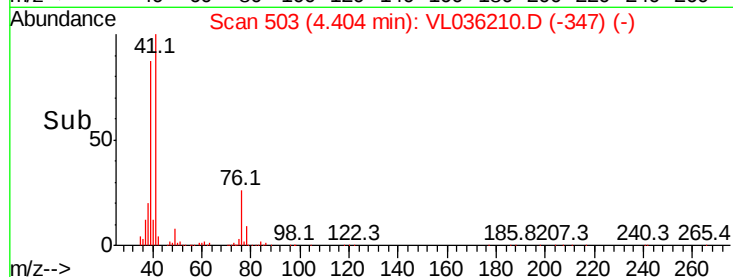
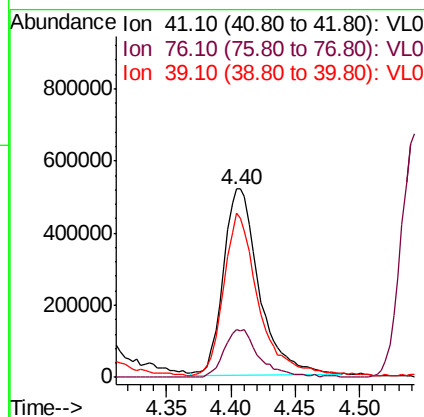
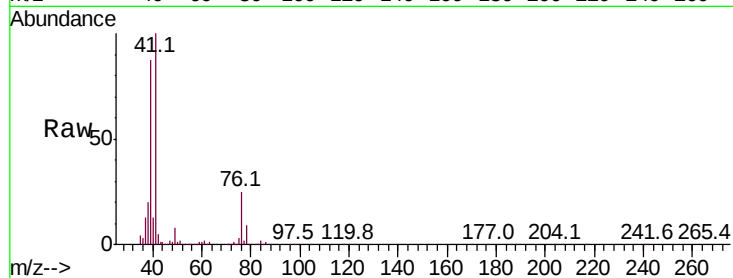
#21  
Allvl Chloride  
Concen: 8.327 ppbv  
RT: 4.40 min Scan# 503  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tot Ion: 41 Resp: 1000187  
Ion Ratio Lower Upper  
41 100  
76 25.7 20.5 30.7  
39 84.7 67.8 101.8

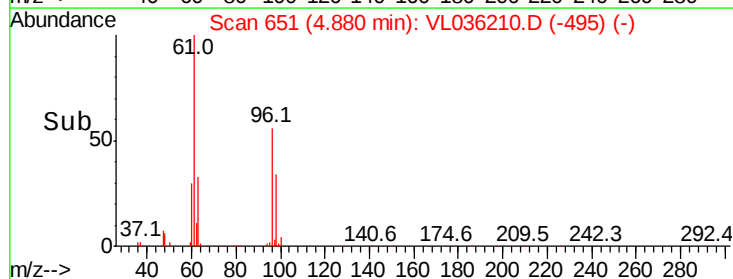
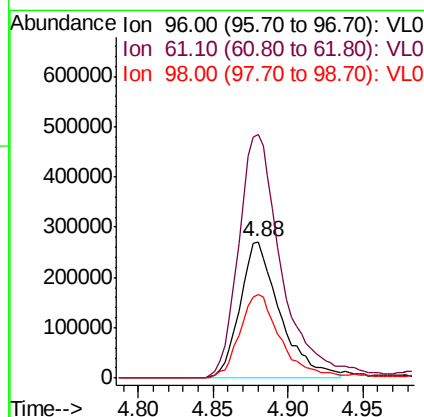
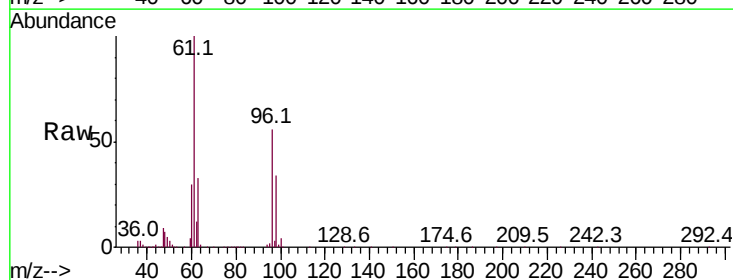
Manual Integrations  
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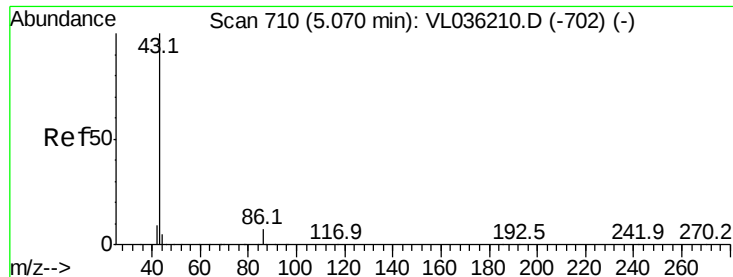
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#22  
trans-1,2-Dichloroethene  
Concen: 8.142 ppbv  
RT: 4.88 min Scan# 651  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Tgt Ion: 96 Resp: 506407  
Ion Ratio Lower Upper  
96 100  
61 178.4 142.7 214.1  
98 60.9 48.7 73.1





#23

Vinyl Acetate

Concen: 9.088 ppbv

RT: 5.07 min Scan# 710

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 2238961

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 6.1   | 4.9   | 7.3   |
| 42  | 9.7   | 7.8   | 11.6  |
| 44  | 4.6   | 3.7   | 5.5   |

43 100

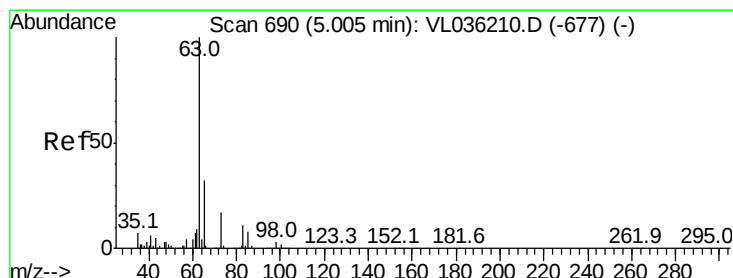
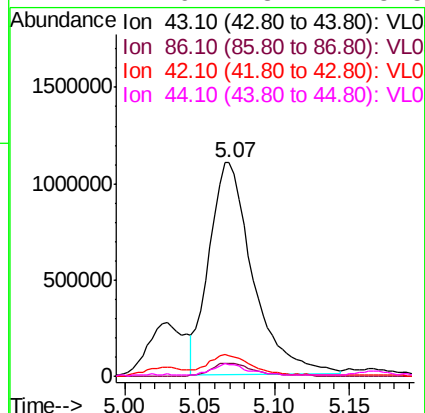
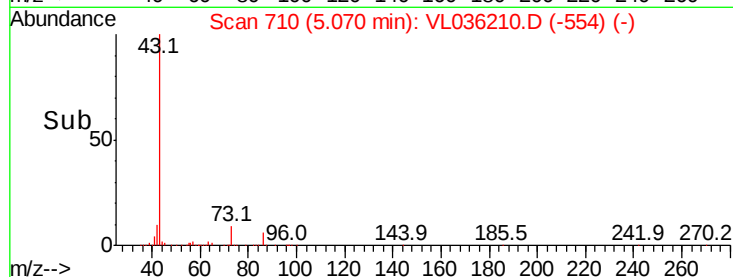
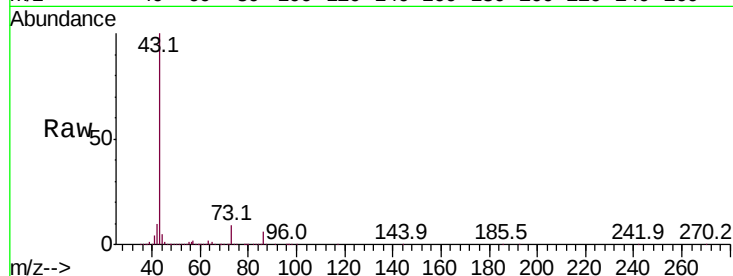
86 6.1 4.9 7.3

42 9.7 7.8 11.6

44 4.6 3.7 5.5

Manual Integrations  
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1/14/2021 6:53:43 PM



#24

1,1-Dichloroethane

Concen: 8.713 ppbv

RT: 5.01 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

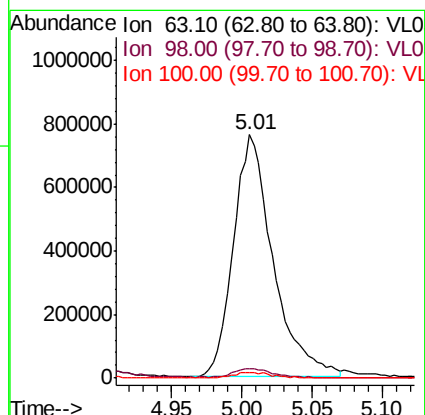
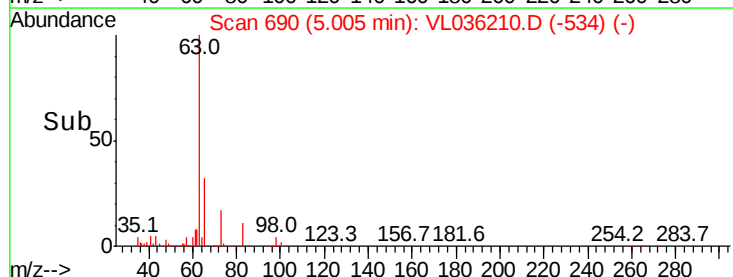
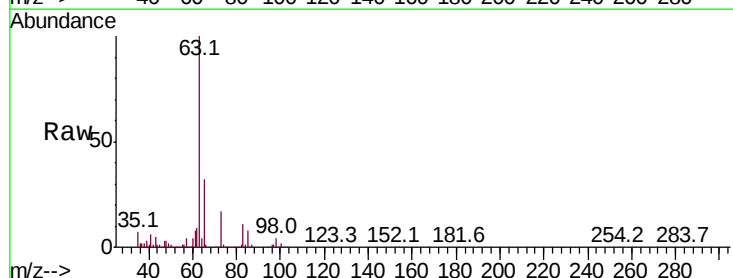
Tgt Ion: 63 Resp: 1509936

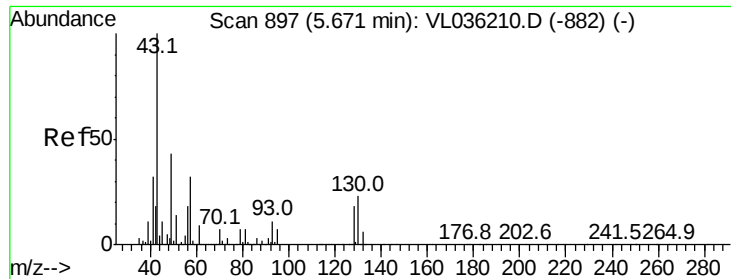
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 3.4   | 1.7   | 5.1   |
| 100 | 2.1   | 1.1   | 3.1   |

63 100

98 3.4 1.7 5.1

100 2.1 1.1 3.1





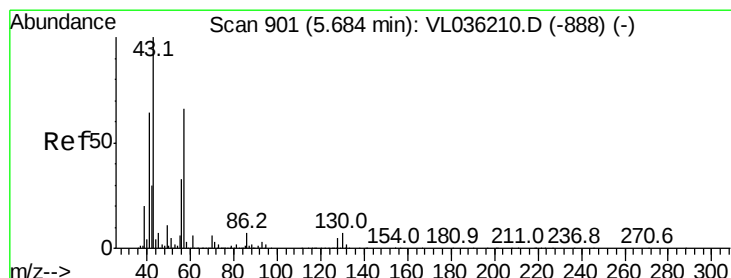
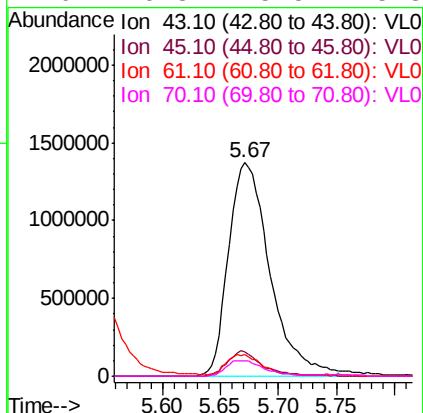
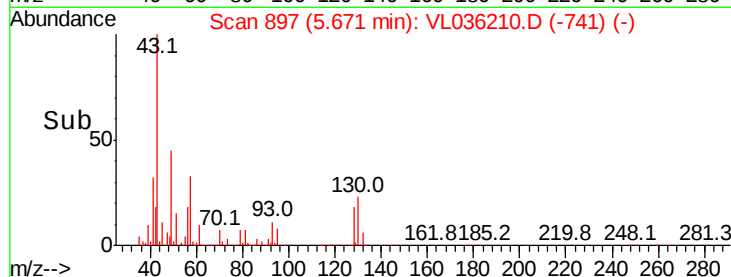
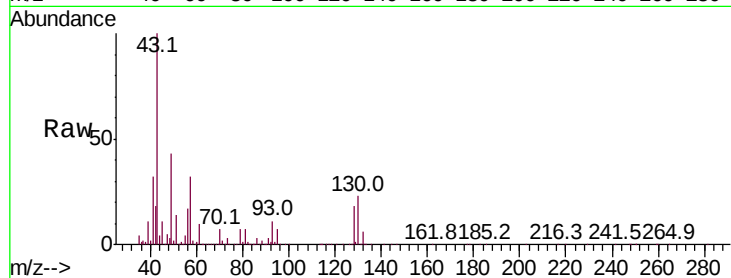
#25  
Ethyl Acetate  
Concen: 9.150 ppbv  
RT: 5.67 min Scan# 897  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 43      | 100  |       |       |       |
| 45      | 10.3 | 8.3   | 12.5  |       |
| 61      | 9.3  | 7.4   | 11.2  |       |
| 70      | 6.8  | 5.5   | 8.3   |       |

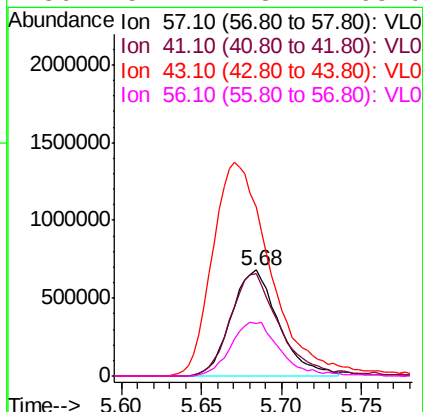
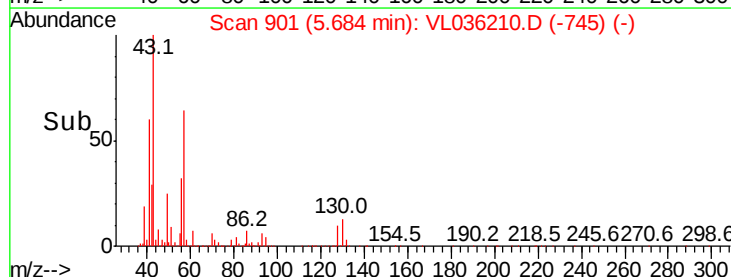
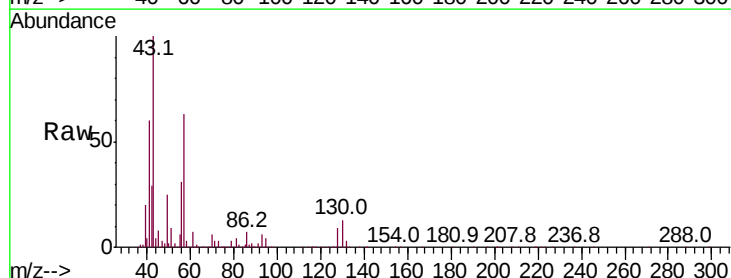
Manual Integrations  
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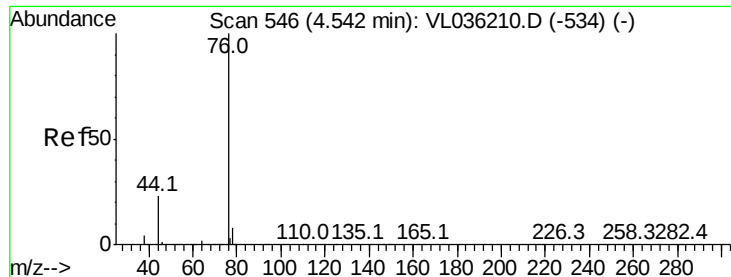
MMDadoda  
1/14/2021 6:53:43 PM



#26  
Hexane  
Concen: 8.178 ppbv  
RT: 5.68 min Scan# 901  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

| Tgt Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 57      | 100   |       |       |       |
| 41      | 103.8 | 83.0  | 124.6 |       |
| 43      | 253.0 | 202.4 | 303.6 |       |
| 56      | 54.2  | 43.4  | 65.0  |       |





#27

Carbon Disulfide

Concen: 8.283 ppbv

RT: 4.54 min Scan# 546

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

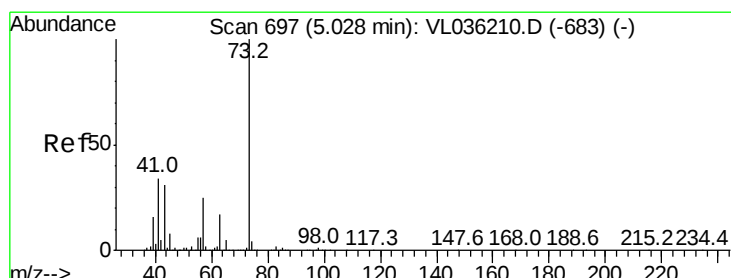
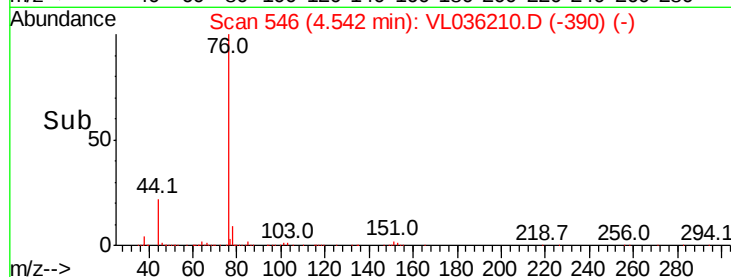
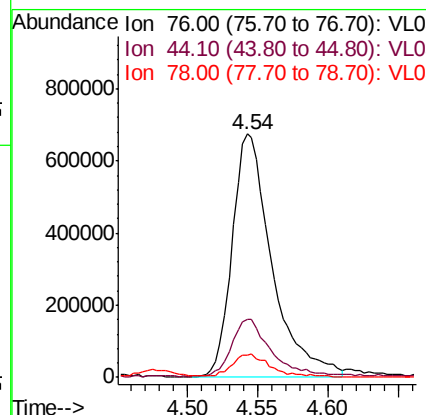
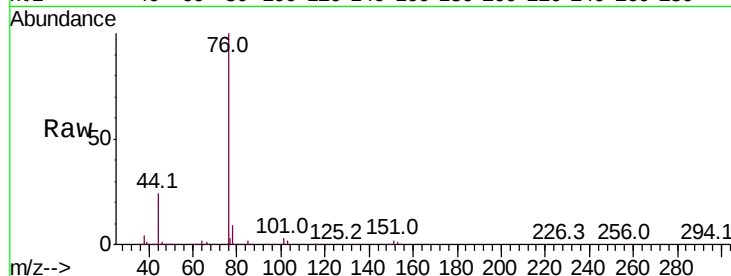
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tot Ion: 76 Resp: 1327899

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 76  | 100   |       |       |
| 44  | 24.3  | 19.0  | 28.6  |
| 78  | 9.9   | 8.0   | 12.0  |

Manual Integrations  
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1/14/2021 6:53:43 PM



#28

Methyl tert-Butyl Ether

Concen: 8.437 ppbv m

RT: 5.03 min Scan# 697

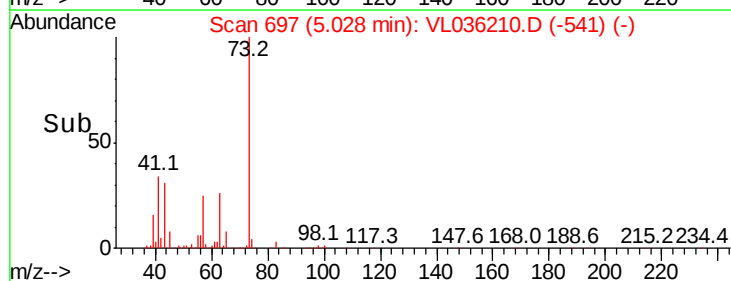
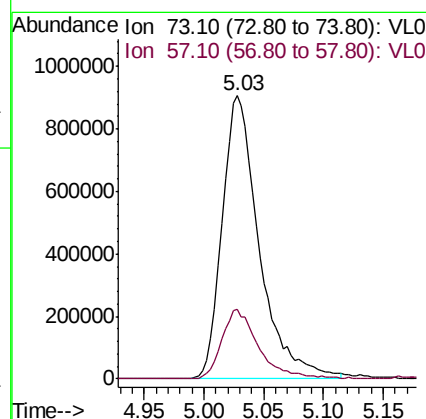
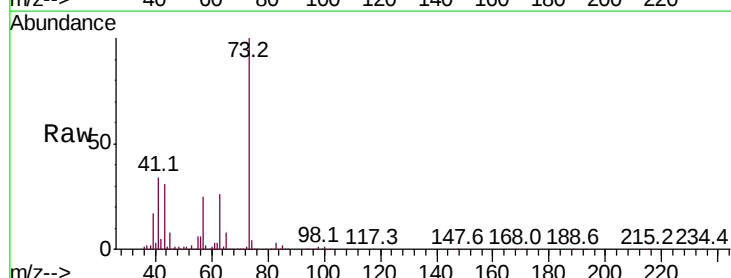
Delta R.T. 0.00 min

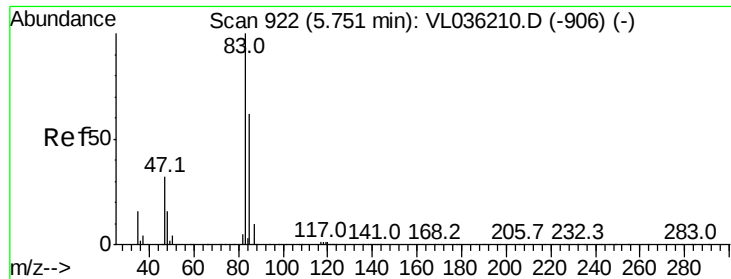
Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Tgt Ion: 73 Resp: 1955926

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 73  | 100   |       |       |
| 57  | 24.5  | 20.4  | 30.6  |





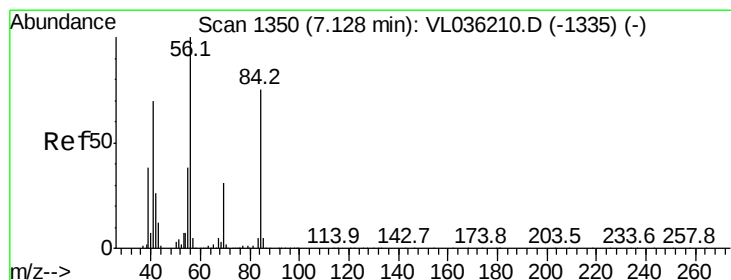
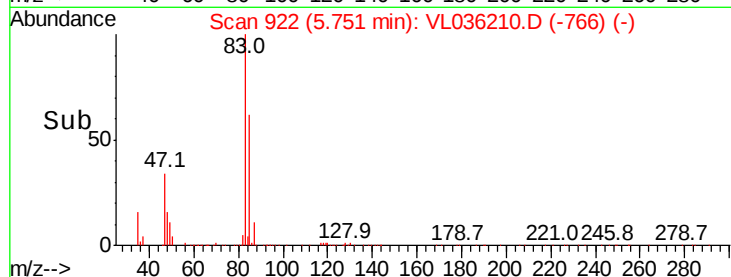
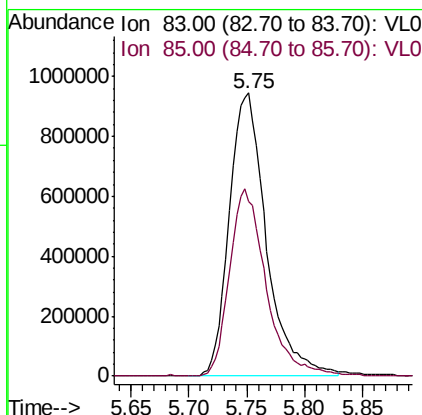
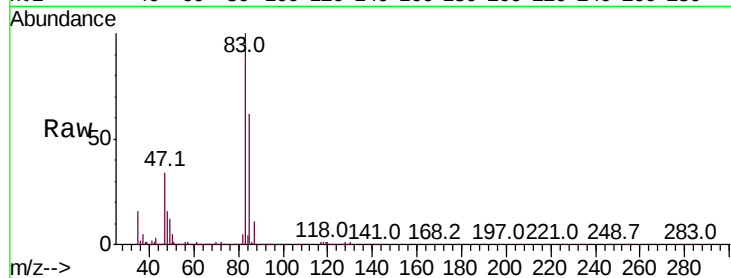
#29  
Chloroform  
Concen: 9.467 ppbv  
RT: 5.75 min Scan# 922  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tot Ion: 83 Resp: 2091709  
Ion Ratio Lower Upper  
83 100  
85 61.6 49.3 73.9

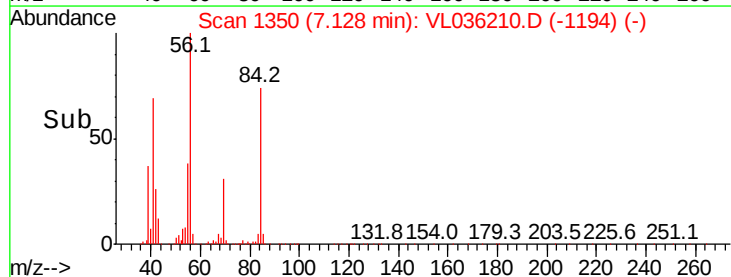
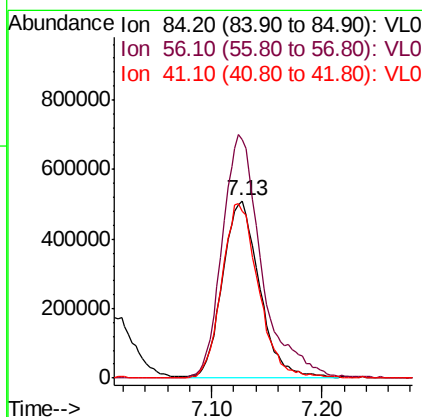
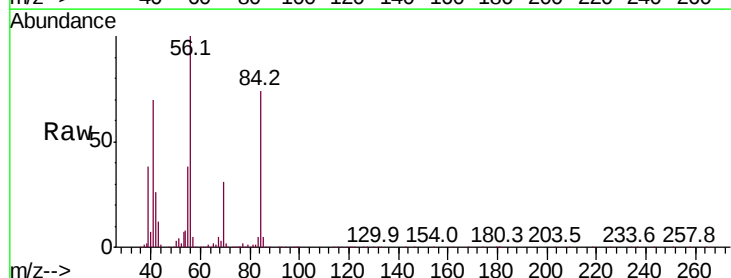
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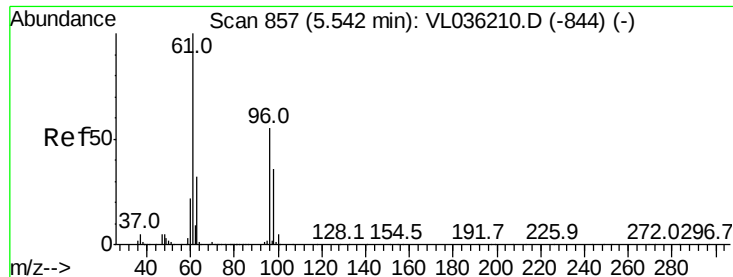
MMDadoda  
1/14/2021 6:53:43 PM



#30  
Cyclohexane  
Concen: 9.397 ppbv  
RT: 7.13 min Scan# 1350  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Tgt Ion: 84 Resp: 1169849  
Ion Ratio Lower Upper  
84 100  
56 149.2 119.4 179.0  
41 99.9 79.4 119.0





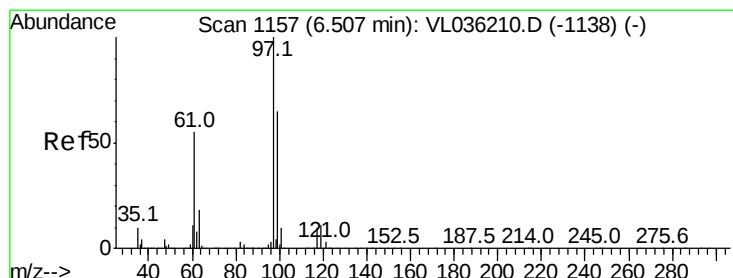
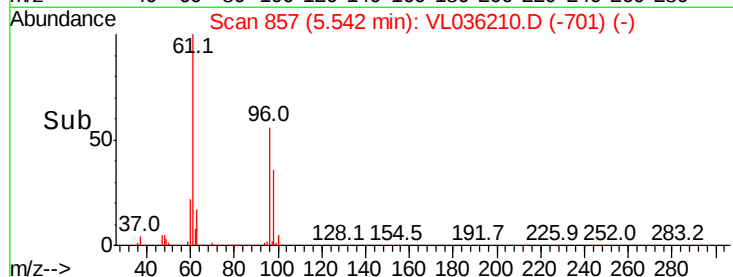
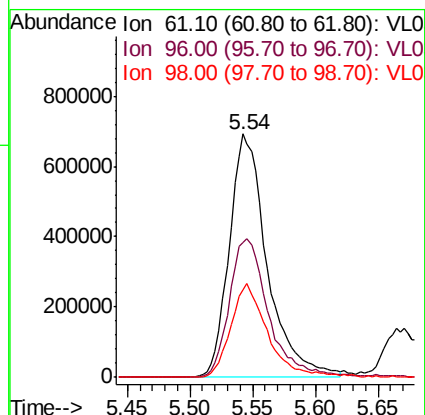
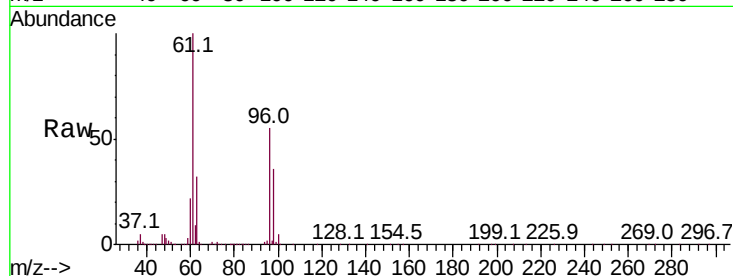
#31  
 cis-1,2-Dichloroethene  
 Concen: 9.501 ppbv  
 RT: 5.54 min Scan# 857  
 Delta R.T. 0.00 min  
 Lab File: VL036210.D  
 Acq: 13 Jan 2021 2:34

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 61      | 100   |       |       |
| 96      | 55.1  | 44.1  | 66.1  |
| 98      | 35.7  | 28.6  | 42.8  |

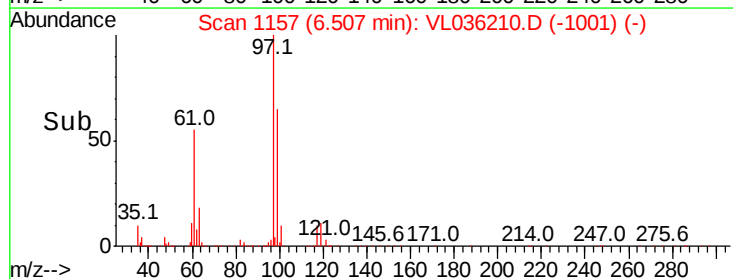
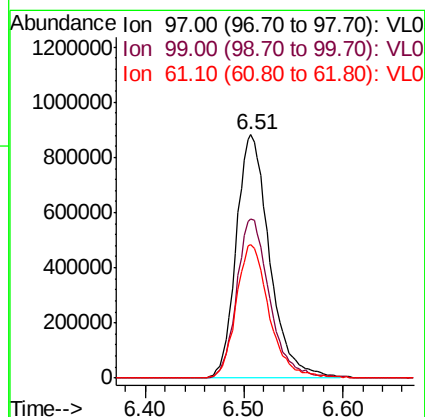
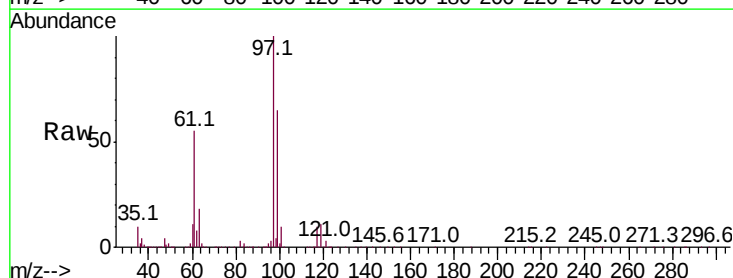
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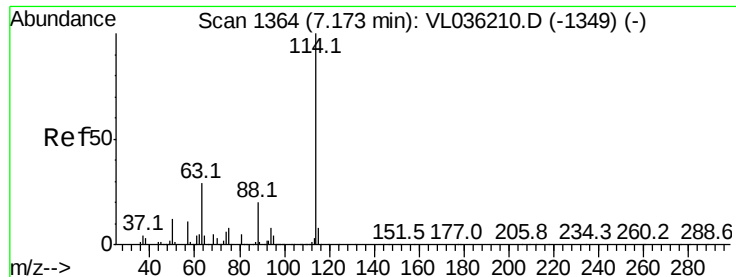
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#32  
 1,1,1-Trichloroethane  
 Concen: 9.082 ppbv  
 RT: 6.51 min Scan# 1157  
 Delta R.T. 0.00 min  
 Lab File: VL036210.D  
 Acq: 13 Jan 2021 2:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 99      | 65.0  | 52.0  | 78.0  |
| 61      | 54.9  | 43.6  | 65.4  |





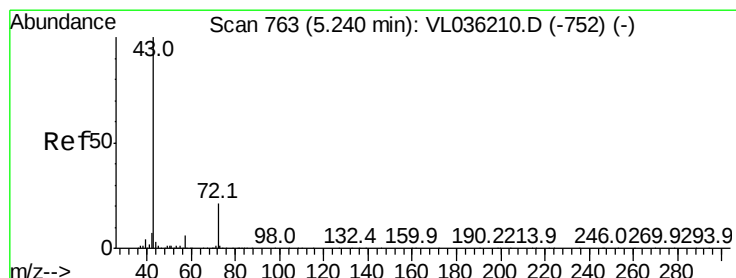
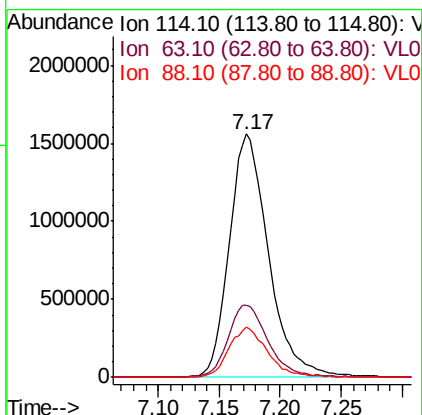
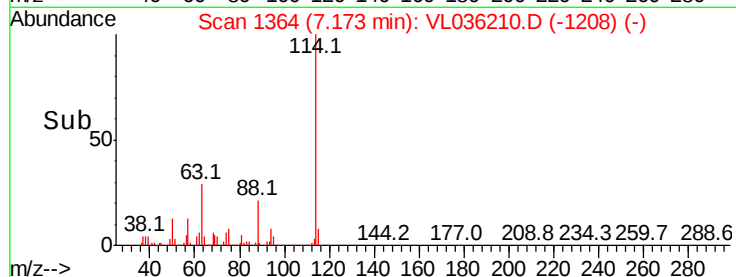
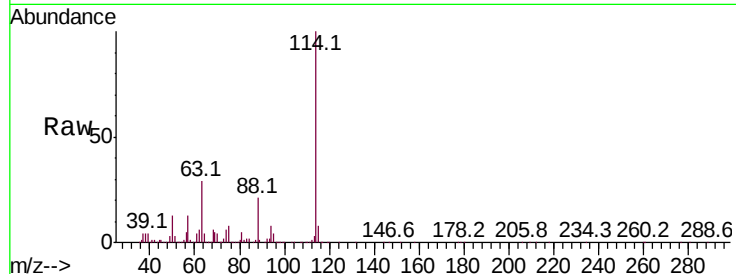
#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 7.17 min Scan# 1364  
 Delta R.T. 0.00 min  
 Lab File: VL036210.D  
 Acq: 13 Jan 2021 2:34

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 30.9  | 24.7  | 37.1  |
| 88      | 20.7  | 16.6  | 24.8  |

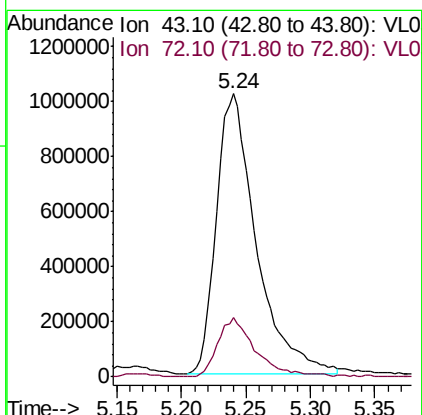
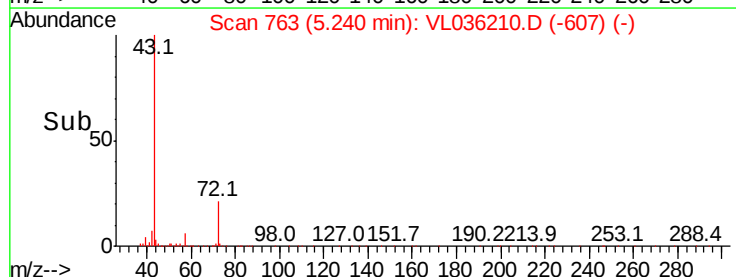
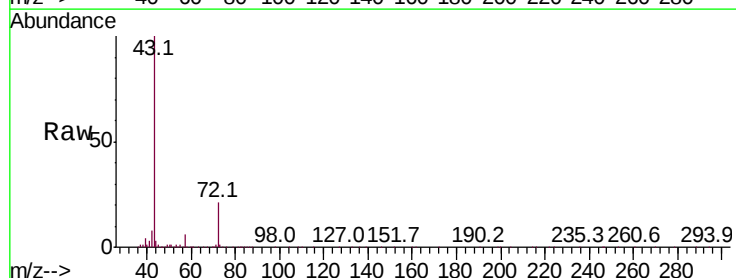
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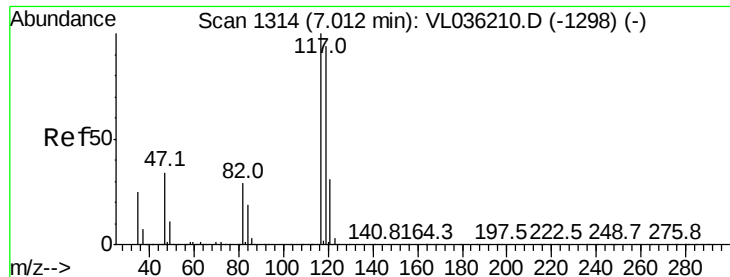
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#34  
 2-Butanone  
 Concen: 9.439 ppbv  
 RT: 5.24 min Scan# 763  
 Delta R.T. 0.00 min  
 Lab File: VL036210.D  
 Acq: 13 Jan 2021 2:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 20.4  | 16.1  | 24.1  |





#35

Carbon Tetrachloride

Concen: 10.129 ppbv

RT: 7.01 min Scan# 1314

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tot Ion: 117 Resp: 2049470

Ion Ratio Lower Upper

117 100

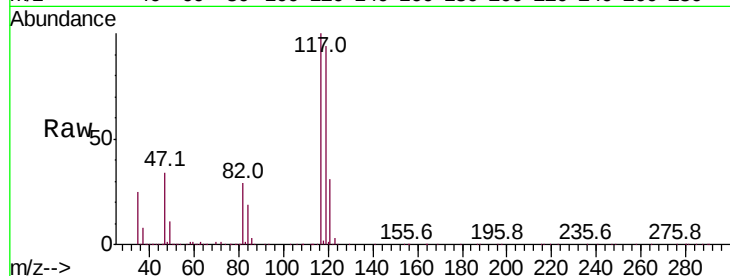
119 93.6 74.9 112.3

121 31.3 25.0 37.6

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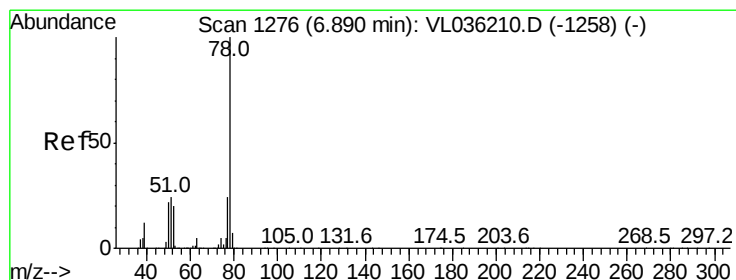
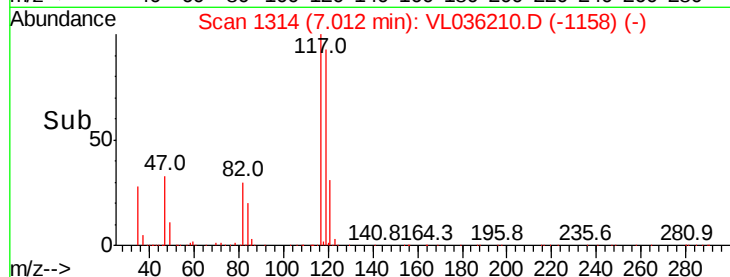
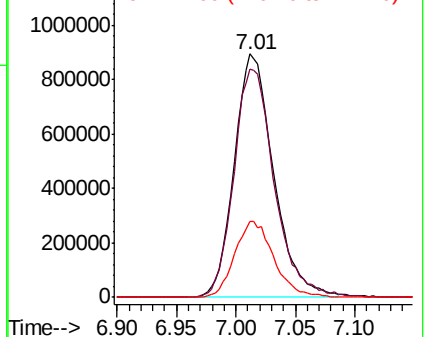
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.659 ppbv

RT: 6.89 min Scan# 1276

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

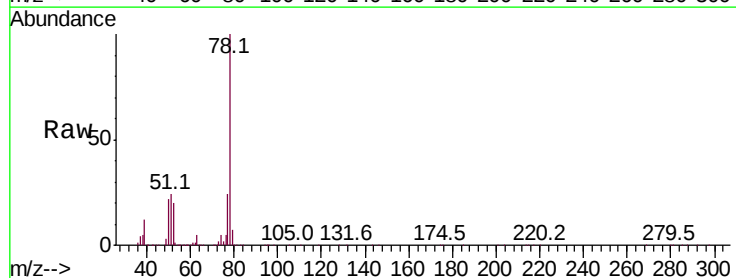
Tgt Ion: 78 Resp: 2851889

Ion Ratio Lower Upper

78 100

77 24.2 19.4 29.0

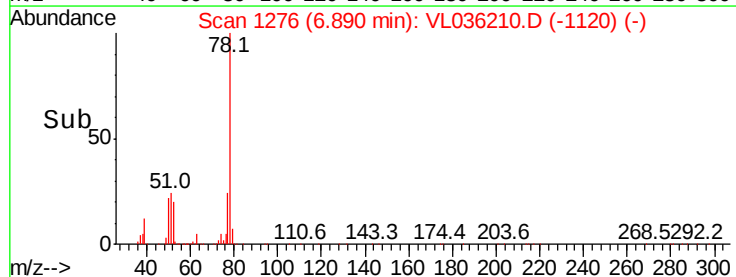
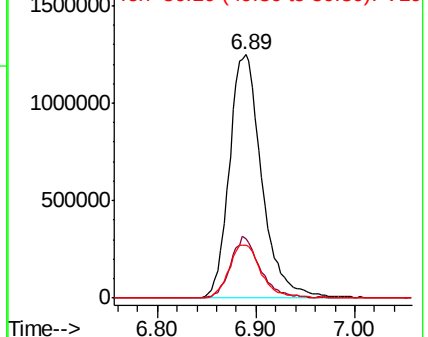
50 21.8 17.4 26.2

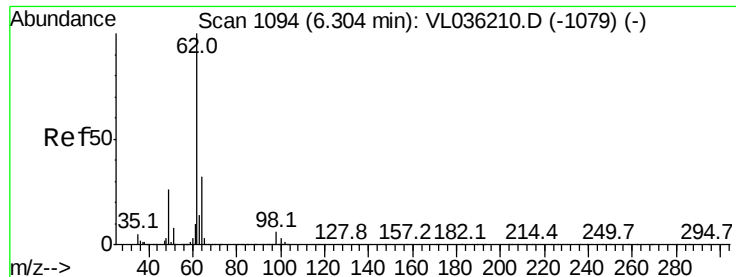


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 10.126 ppbv

RT: 6.30 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L

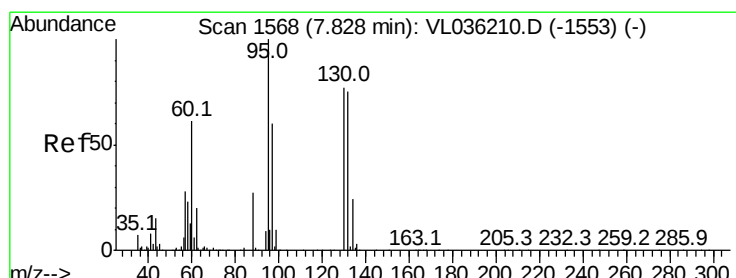
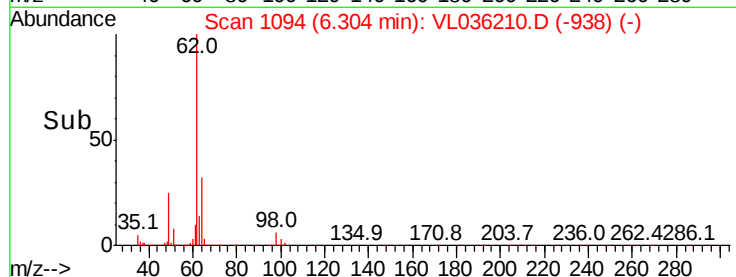
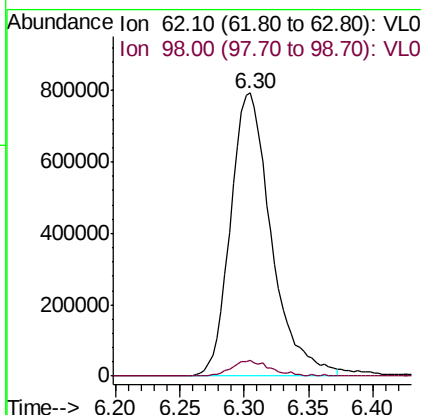
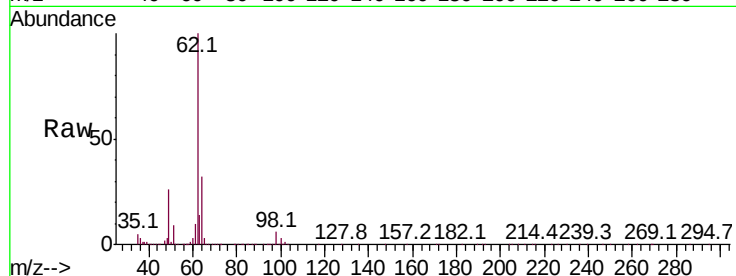
ClientSampleId :  
VSTDICCC010

Tot Ion: 62 Resp: 1742596

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 62  | 100   |       |       |
| 98  | 5.5   | 4.4   | 6.6   |

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#38

Trichloroethene

Concen: 8.380 ppbv

RT: 7.83 min Scan# 1568

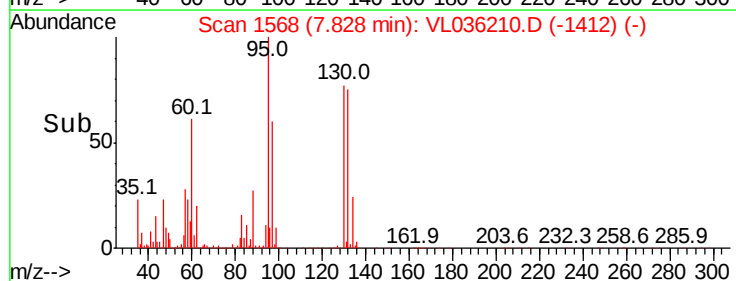
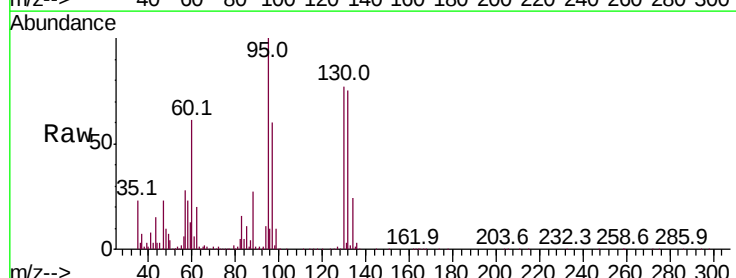
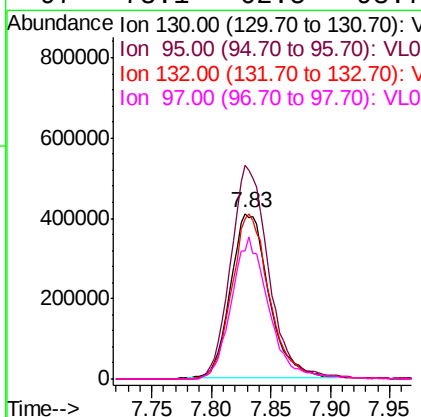
Delta R.T. 0.00 min

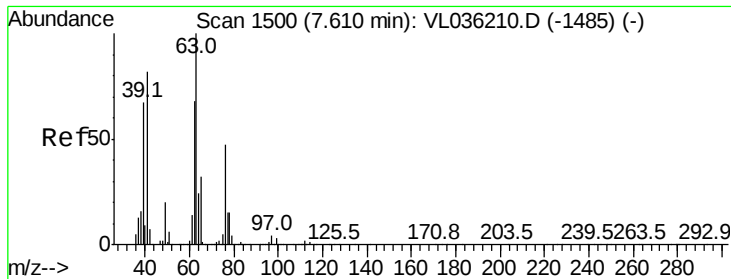
Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Tgt Ion: 130 Resp: 913680

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 130 | 100   |       |       |
| 95  | 129.9 | 103.9 | 155.9 |
| 132 | 96.8  | 77.4  | 116.2 |
| 97  | 78.1  | 62.5  | 93.7  |





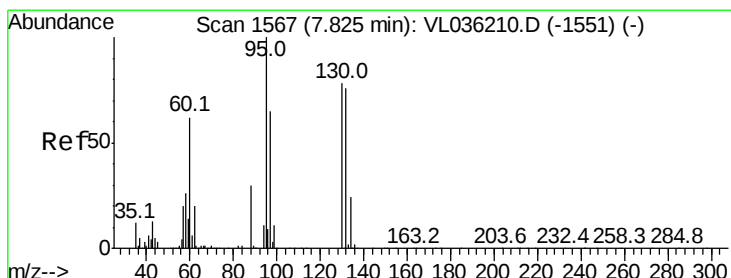
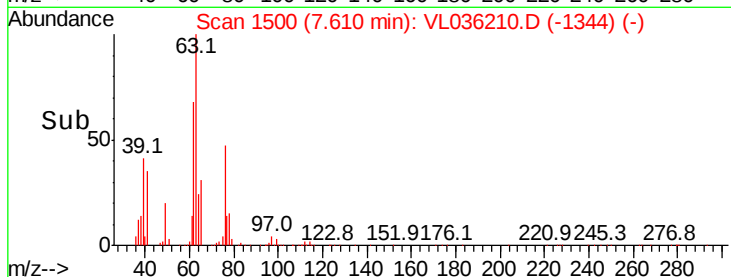
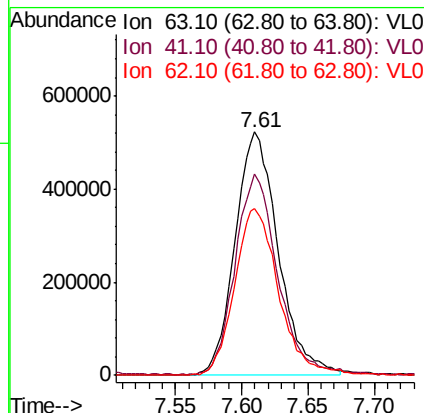
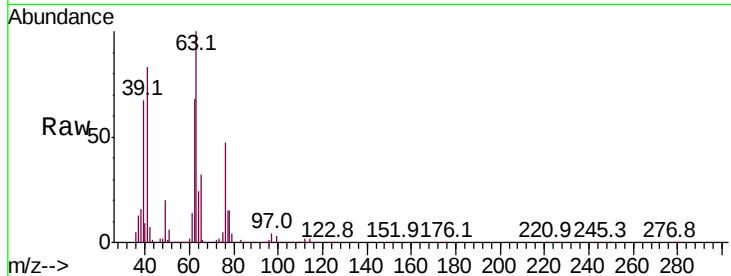
#39  
 1,2-Dichloropropane  
 Concen: 10.088 ppbv  
 RT: 7.61 min Scan# 1500  
 Delta R.T. 0.00 min  
 Lab File: VL036210.D  
 Acq: 13 Jan 2021 2:34

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 41      | 82.6  | 66.1  | 99.1  |
| 62      | 68.5  | 54.8  | 82.2  |

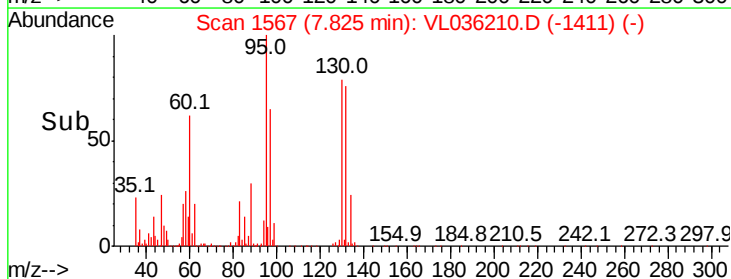
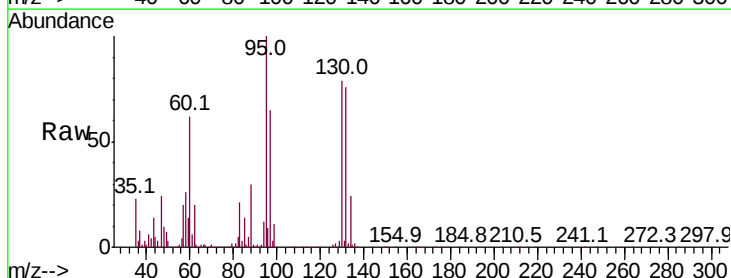
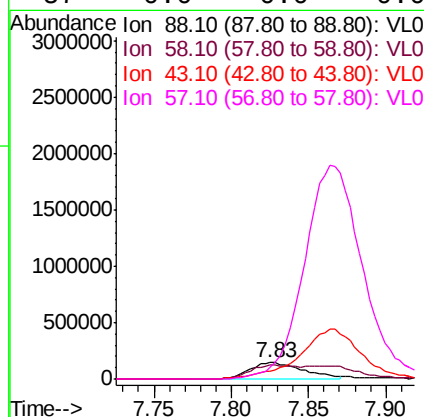
Manual Integrations  
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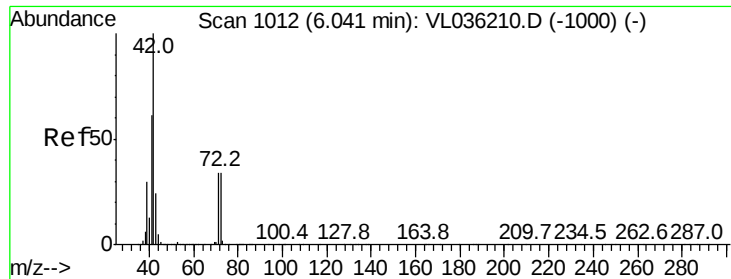
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#40  
 1,4-Dioxane  
 Concen: 9.690 ppbv  
 RT: 7.83 min Scan# 1567  
 Delta R.T. 0.00 min  
 Lab File: VL036210.D  
 Acq: 13 Jan 2021 2:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 154.0 | 123.0 | 184.6 |
| 43      | 0.0   | 0.0   | 0.0   |
| 57      | 0.0   | 0.0   | 0.0   |





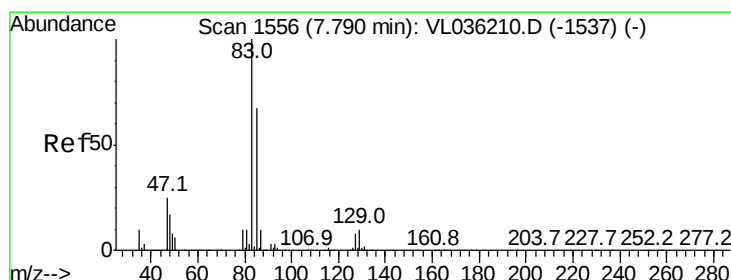
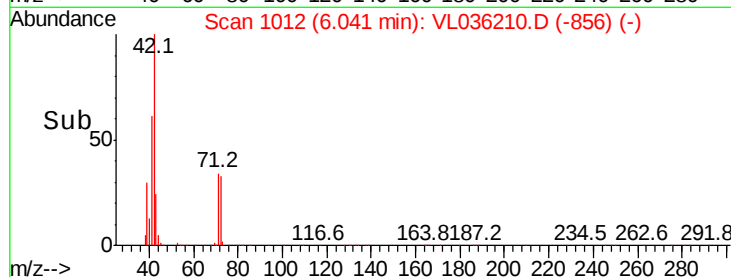
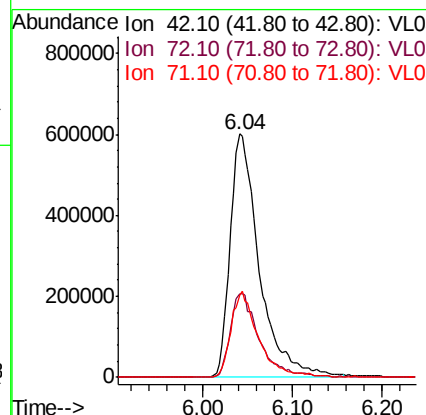
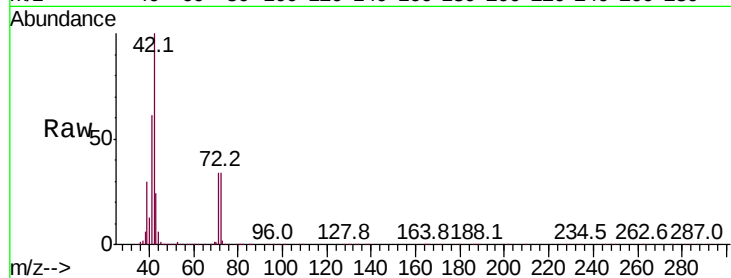
#41  
Tetrahydrofuran  
Concen: 9.969 ppbv m  
RT: 6.04 min Scan# 1012  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 34.8  | 29.5  | 44.3  |
| 71      | 33.8  | 29.1  | 43.7  |

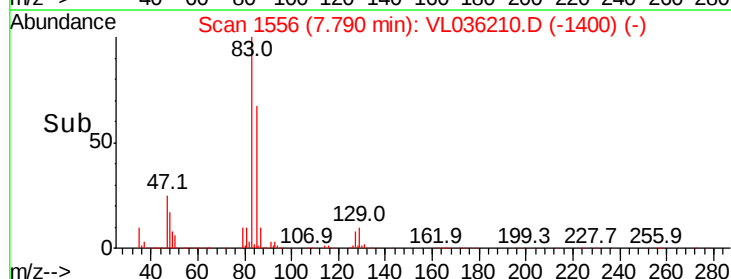
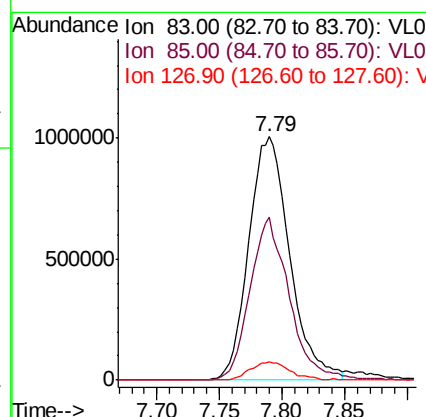
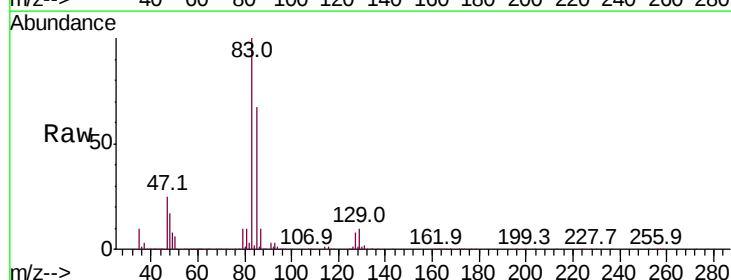
Manual Integrations  
APPROVED

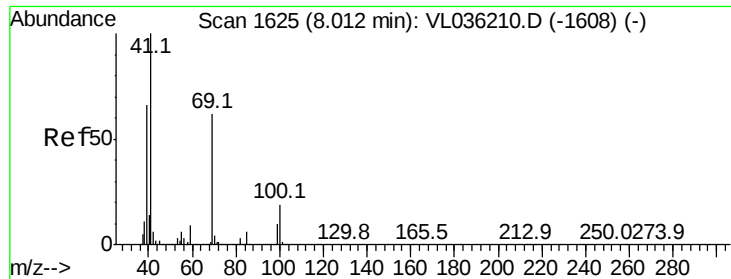
MMDadoda  
1/14/2021 6:53:43 PM



#42  
Bromodichloromethane  
Concen: 10.053 ppbv  
RT: 7.79 min Scan# 1556  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 66.8  | 53.4  | 80.2  |
| 127     | 7.7   | 6.2   | 9.2   |





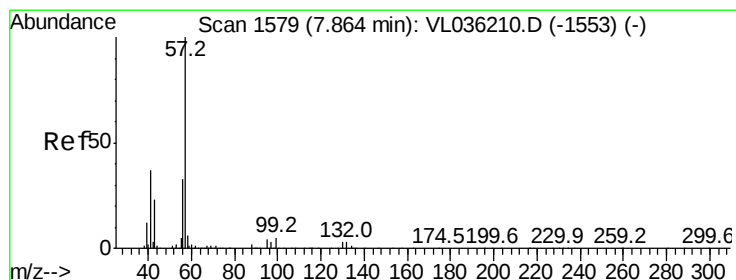
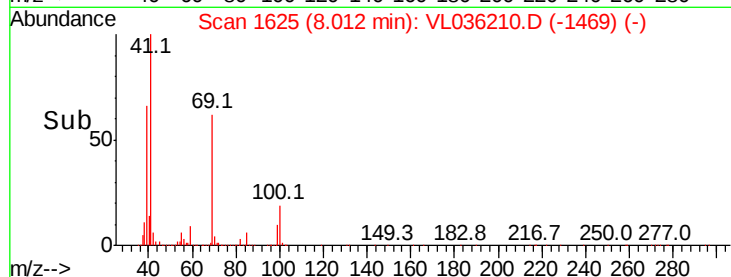
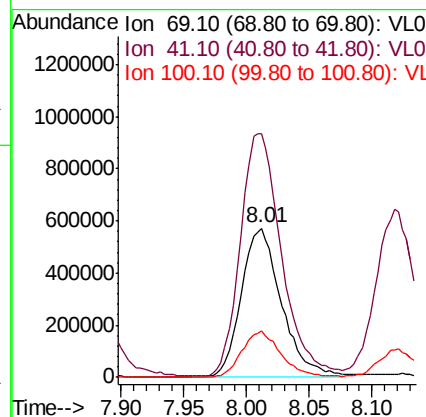
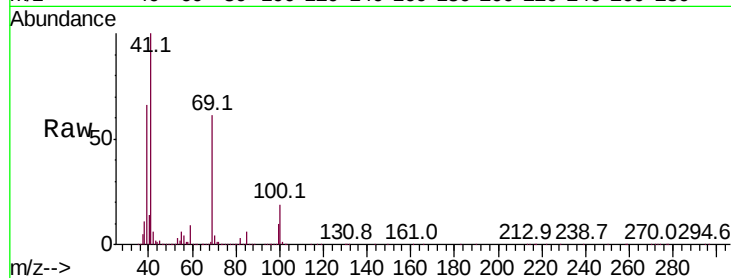
#43  
Methvl Methacrylate  
Concen: 10.094 ppbv  
RT: 8.01 min Scan# 1625  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tot Ion: 69 Resp: 1278845  
Ion Ratio Lower Upper  
69 100  
41 167.6 133.4 200.2  
100 30.5 24.3 36.5

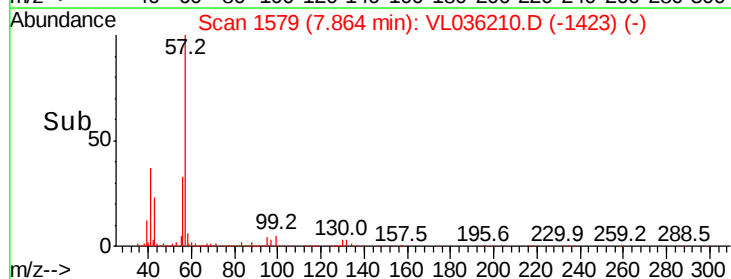
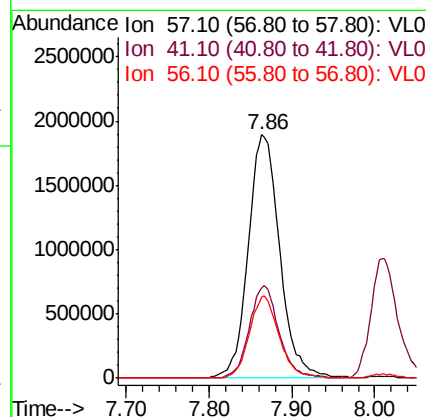
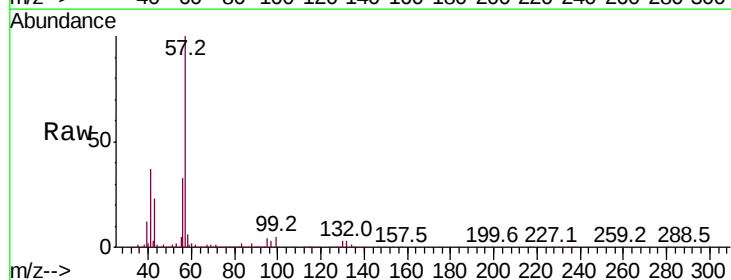
Manual Integrations  
APPROVED

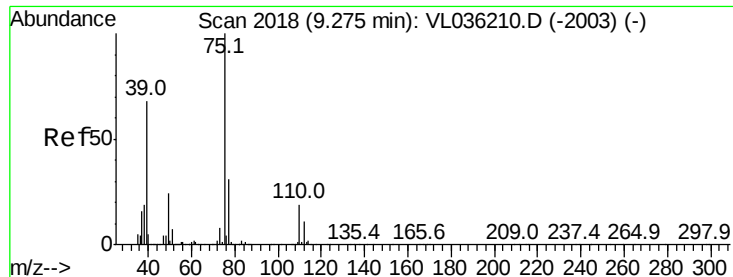
MMDadoda  
1/14/2021 6:53:43 PM



#44  
2,2,4-Trimethylpentane  
Concen: 9.359 ppbv  
RT: 7.86 min Scan# 1579  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Tgt Ion: 57 Resp: 4985160  
Ion Ratio Lower Upper  
57 100  
41 35.6 28.5 42.7  
56 31.9 25.5 38.3





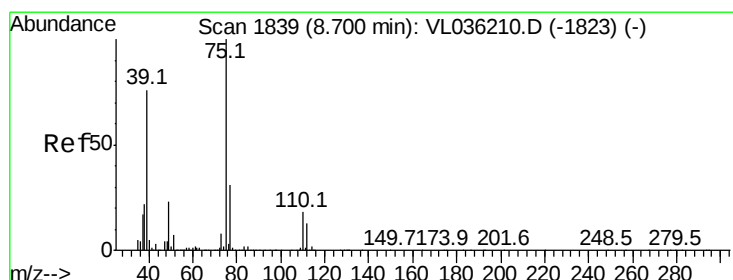
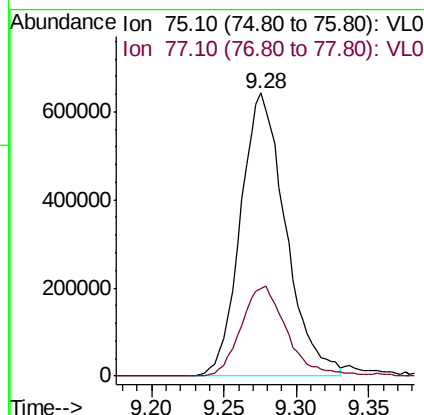
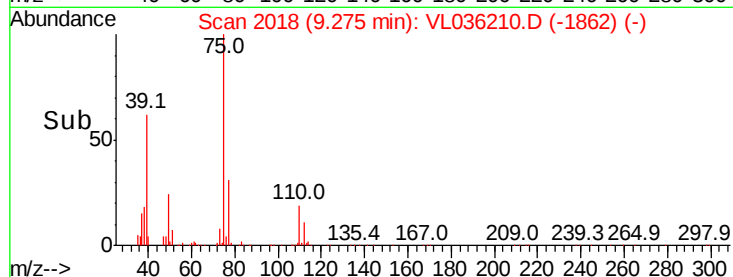
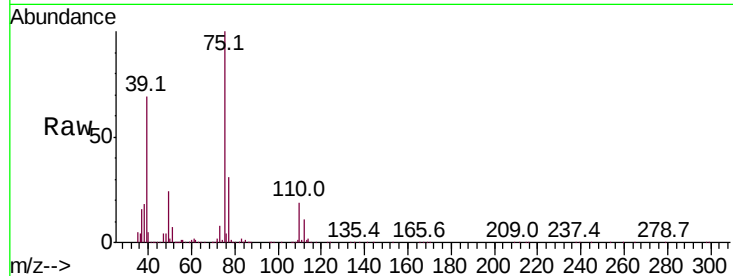
#45  
t-1,3-Dichloropropene  
Concen: 10.660 ppbv  
RT: 9.28 min Scan# 2018  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tot Ion: 75 Resp: 1381385  
Ion Ratio Lower Upper  
75 100  
77 30.9 24.7 37.1

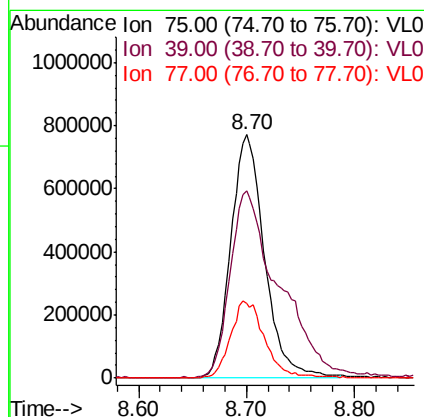
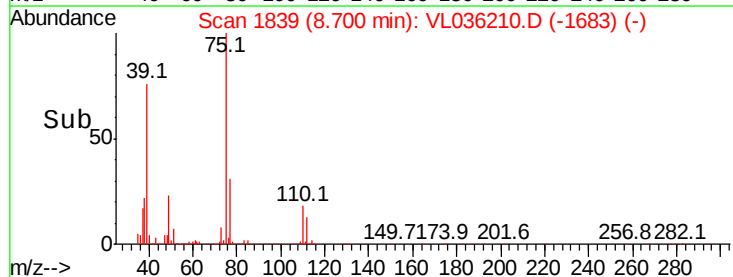
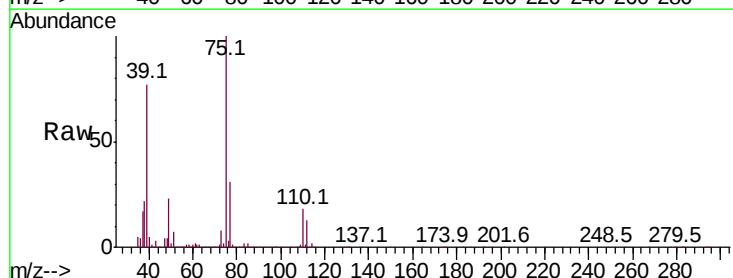
Manual Integrations  
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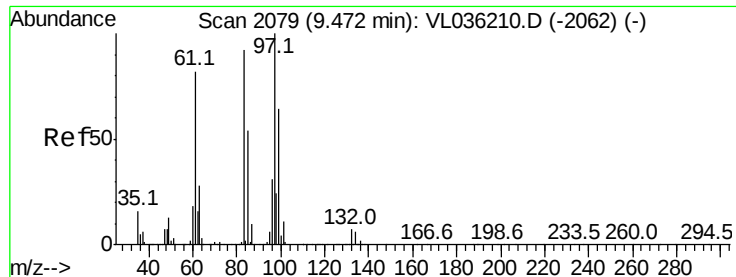
MMDadoda  
1/14/2021 6:53:43 PM



#46  
cis-1,3-Dichloropropene  
Concen: 10.317 ppbv  
RT: 8.70 min Scan# 1839  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Tgt Ion: 75 Resp: 1687060  
Ion Ratio Lower Upper  
75 100  
39 76.5 61.2 91.8  
77 30.8 24.6 37.0





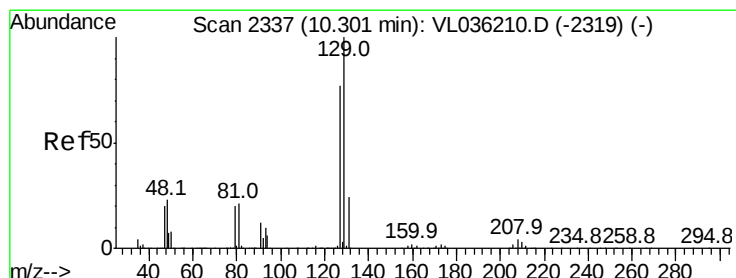
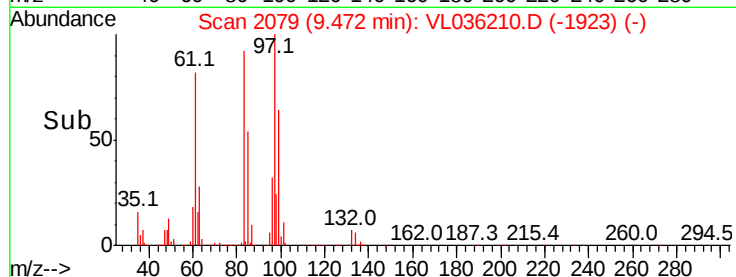
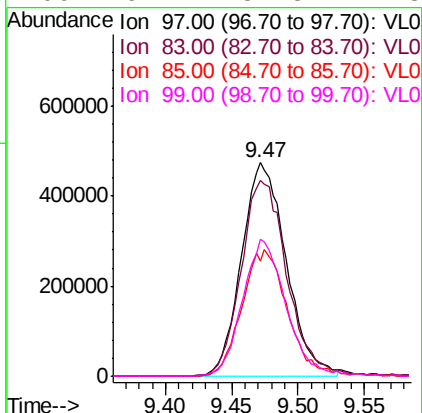
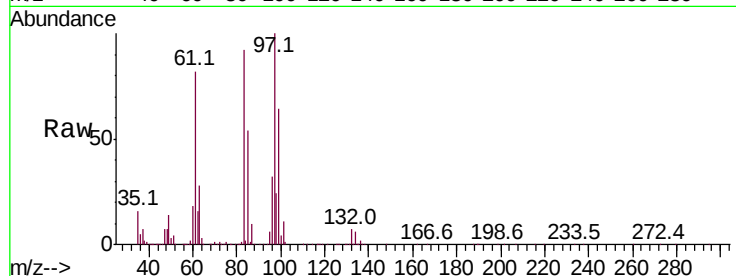
#47  
 1,1,2-Trichloroethane  
 Concen: 9.863 ppbv  
 RT: 9.47 min Scan# 2079  
 Delta R.T. 0.00 min  
 Lab File: VL036210.D  
 Acq: 13 Jan 2021 2:34

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 91.6  | 73.3  | 109.9 |
| 85      | 54.0  | 43.2  | 64.8  |
| 99      | 64.4  | 51.5  | 77.3  |

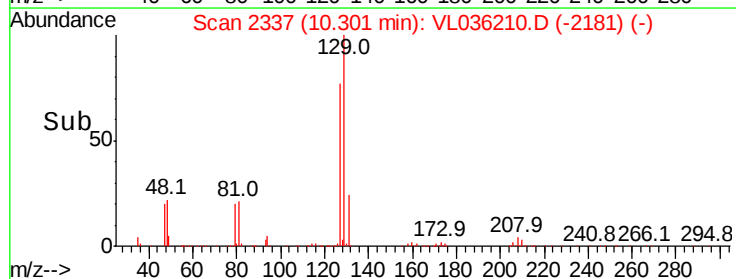
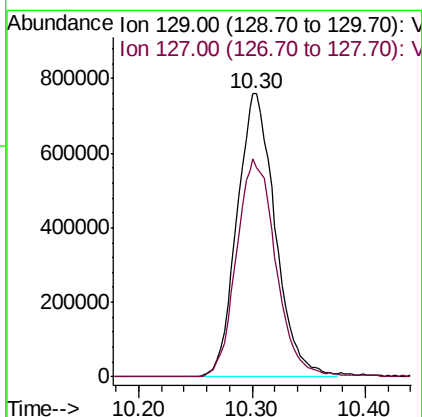
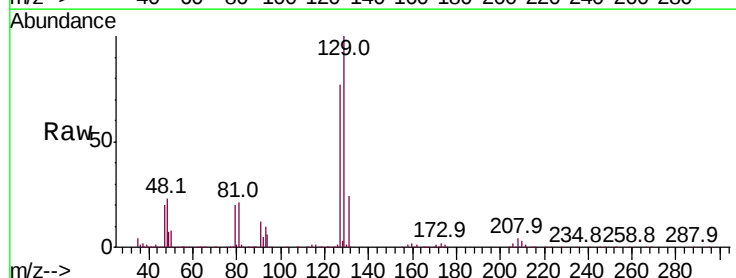
Manual Integrations  
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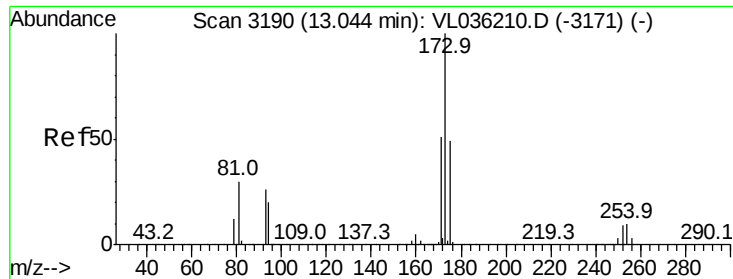
MMDadoda  
 1/14/2021 6:53:43 PM



#48  
 Dibromochloromethane  
 Concen: 10.597 ppbv  
 RT: 10.30 min Scan# 2337  
 Delta R.T. 0.00 min  
 Lab File: VL036210.D  
 Acq: 13 Jan 2021 2:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 79.3  | 39.6  | 118.8 |





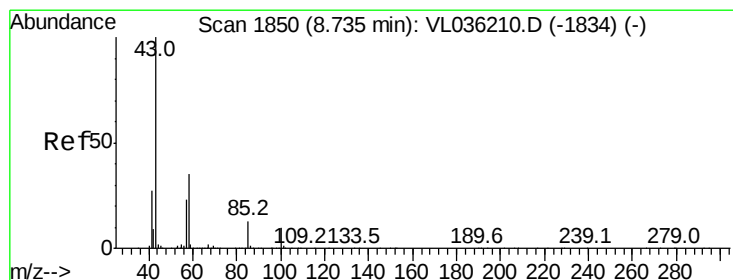
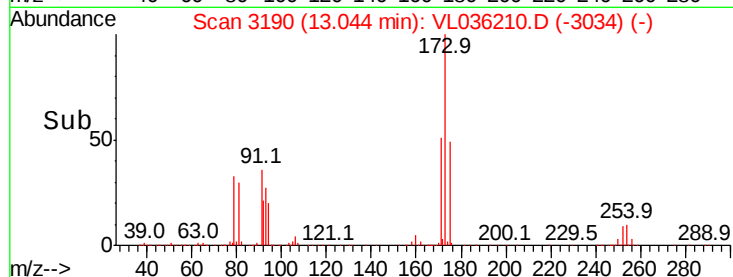
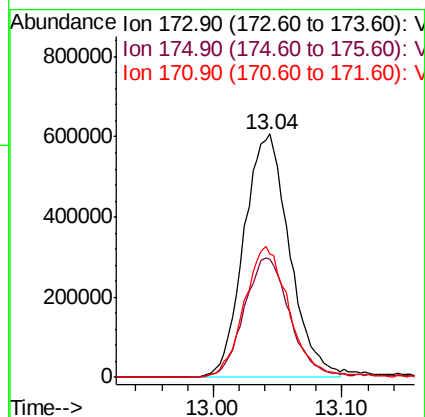
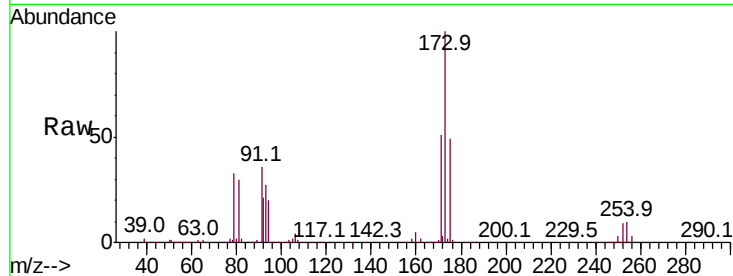
#49  
Bromoform  
Concen: 11.195 ppbv  
RT: 13.04 min Scan# 3190  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 173     | 100   |       |       |
| 175     | 50.3  | 40.7  | 61.1  |
| 171     | 53.4  | 43.0  | 64.6  |

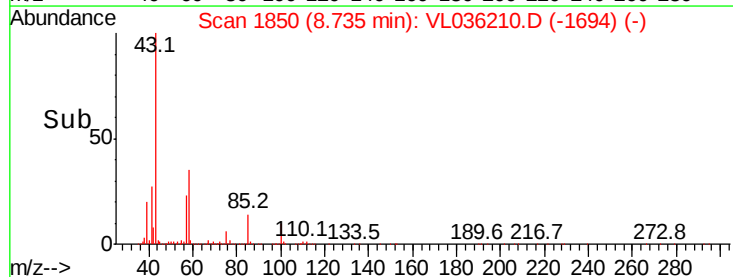
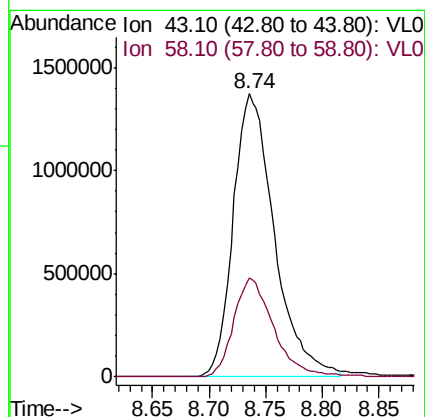
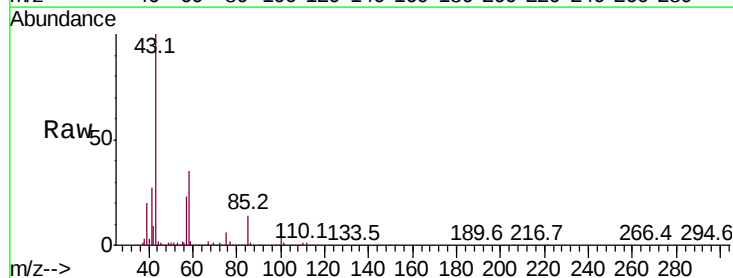
Manual Integrations  
APPROVED

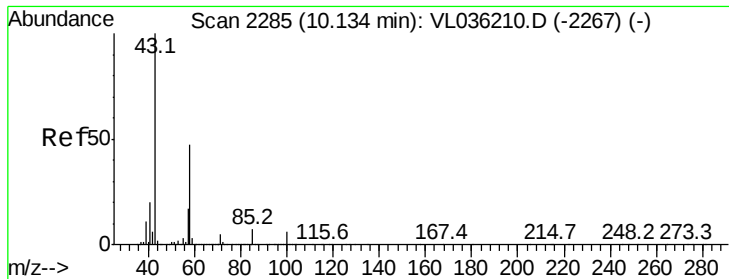
MMDadoda  
1/14/2021 6:53:43 PM



#50  
4-Methyl-2-Pentanone  
Concen: 10.012 ppbv  
RT: 8.74 min Scan# 1850  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 34.5  | 27.6  | 41.4  |





#51

2-Hexanone

Concen: 10.445 ppbv

RT: 10.13 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 2866773

Ion Ratio Lower Upper

43 100

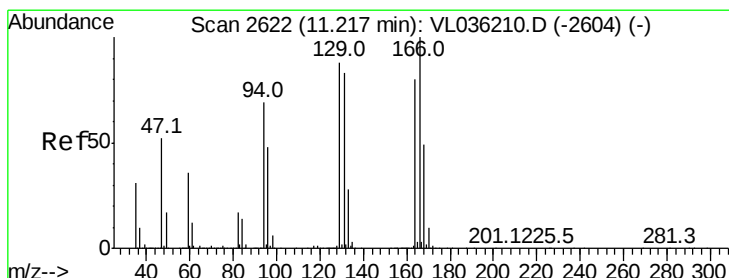
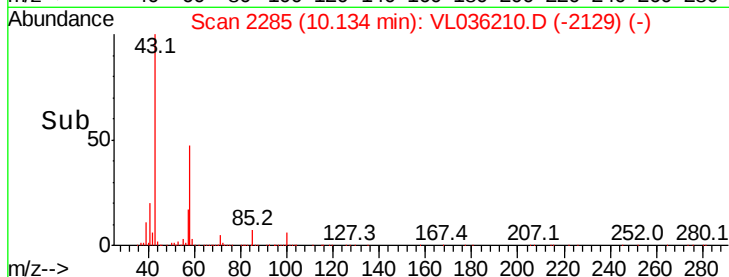
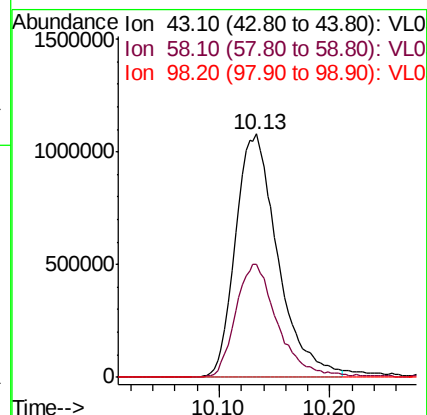
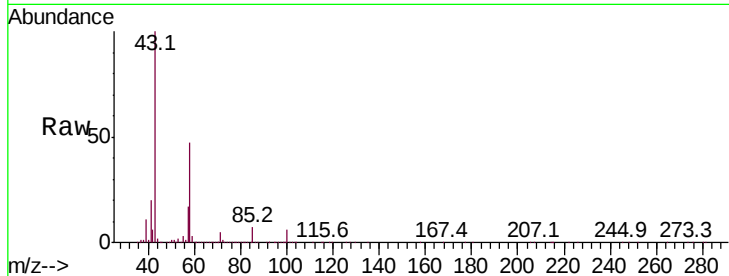
58 46.7 37.4 56.0

98 0.2 0.2 0.2

Manual Integrations  
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#52

Tetrachloroethene

Concen: 8.525 ppbv

RT: 11.22 min Scan# 2622

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Tgt Ion: 164 Resp: 904682

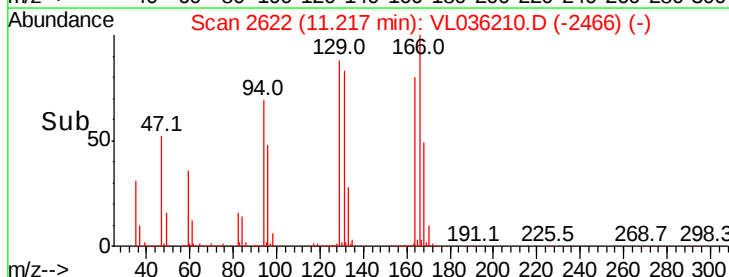
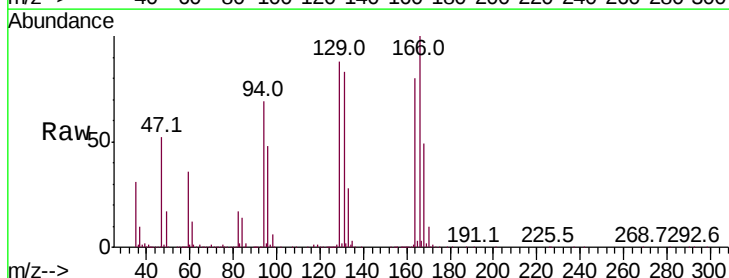
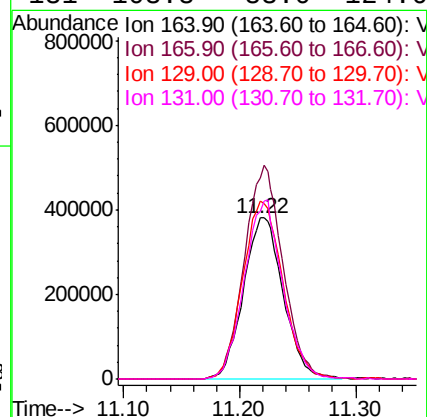
Ion Ratio Lower Upper

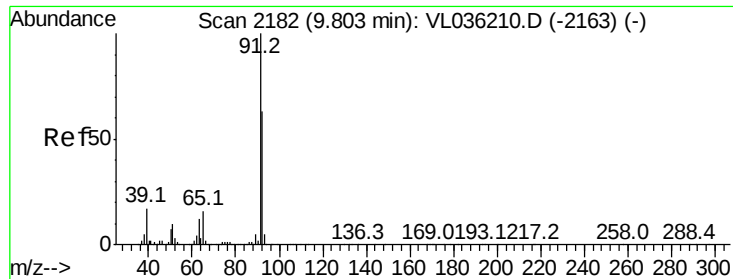
164 100

166 124.9 99.9 149.9

129 110.3 88.2 132.4

131 103.8 83.0 124.6





#53

Toluene

Concen: 9.687 ppbv

RT: 9.80 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 3208379

Ion Ratio Lower Upper

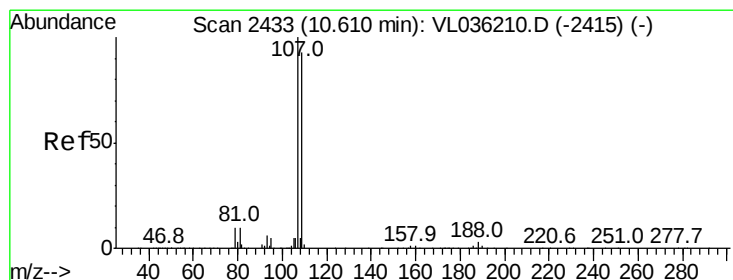
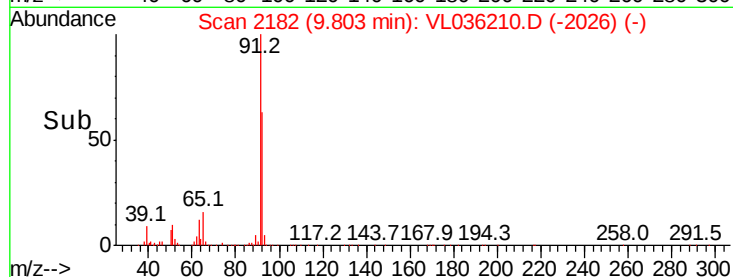
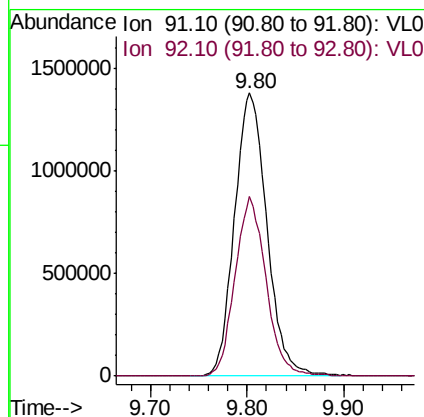
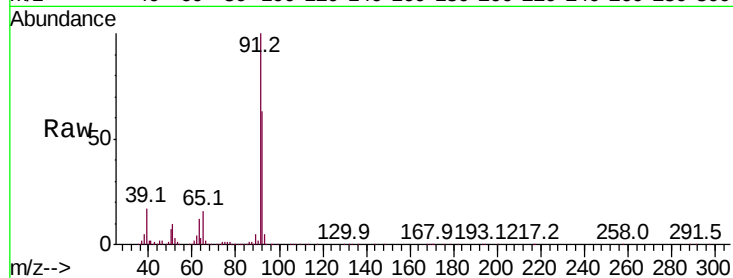
91 100

92 60.7 48.5 72.7

Manual Integrations  
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#54

1,2-Dibromoethane

Concen: 9.908 ppbv

RT: 10.61 min Scan# 2433

Delta R.T. 0.00 min

Lab File: VL036210.D

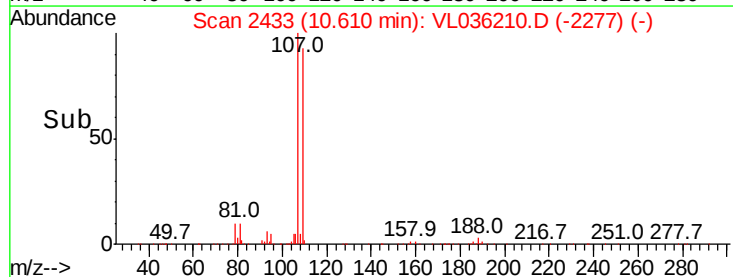
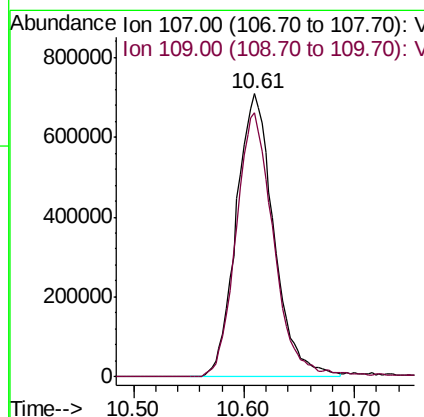
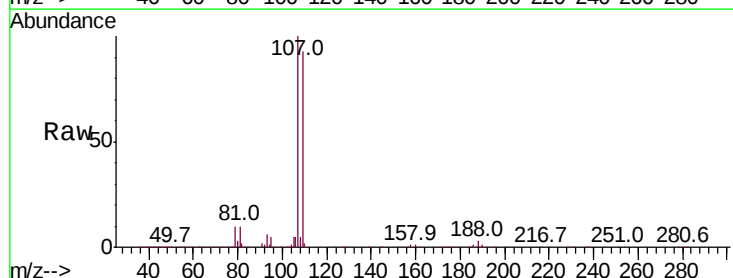
Acq: 13 Jan 2021 2:34

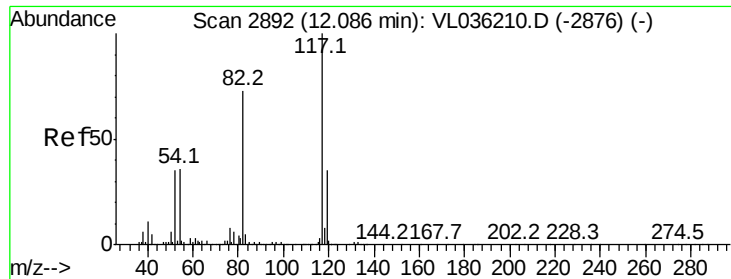
Tgt Ion: 107 Resp: 1674242

Ion Ratio Lower Upper

107 100

109 93.1 74.5 111.7





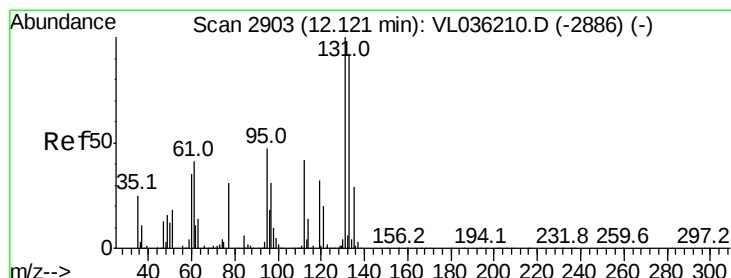
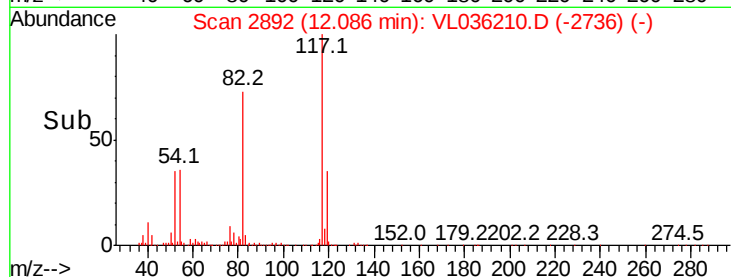
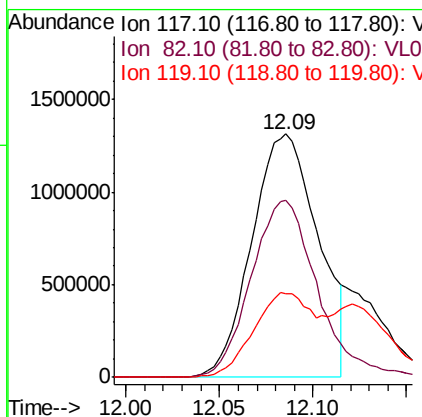
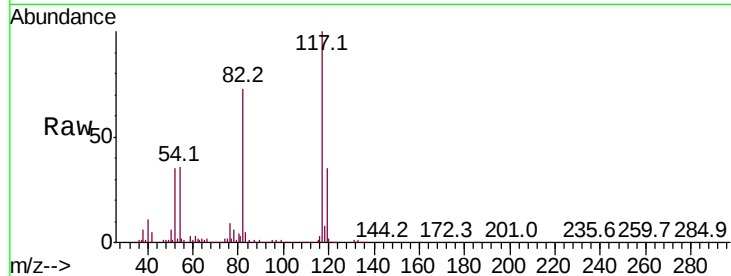
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv m  
RT: 12.09 min Scan# 2892  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tot Ion:117 Resp: 3225561  
Ion Ratio Lower Upper  
117 100  
82 74.8 59.7 89.5  
119 33.8 28.6 43.0

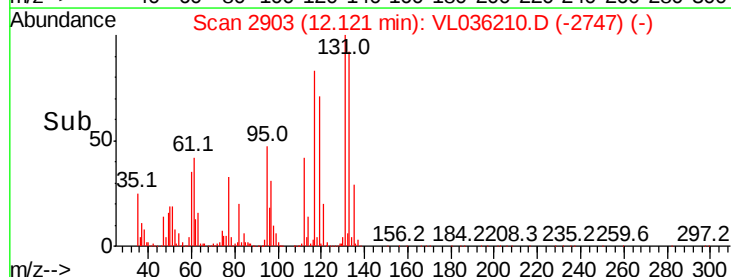
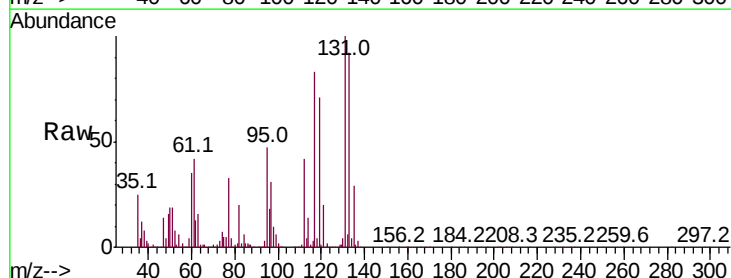
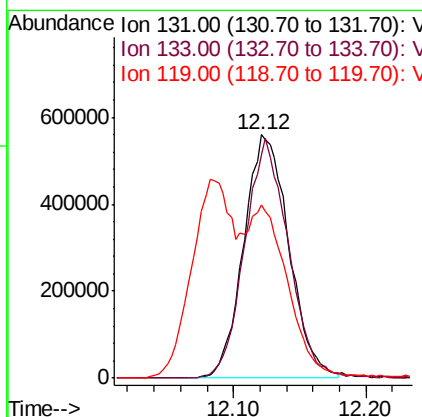
Manual Integrations  
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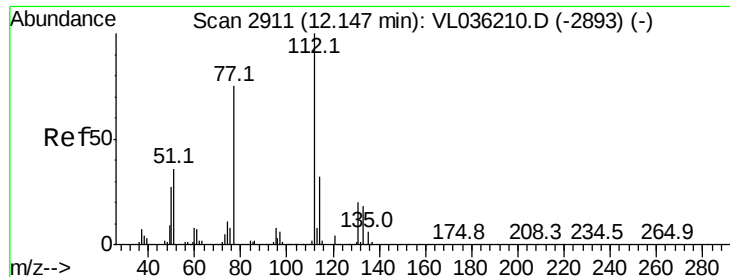
MMDadoda  
1/14/2021 6:53:43 PM



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.890 ppbv  
RT: 12.12 min Scan# 2903  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Tgt Ion:131 Resp: 1321664  
Ion Ratio Lower Upper  
131 100  
133 95.6 76.5 114.7  
119 56.7 45.4 68.0





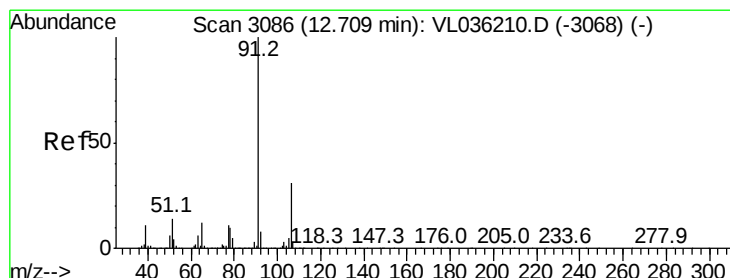
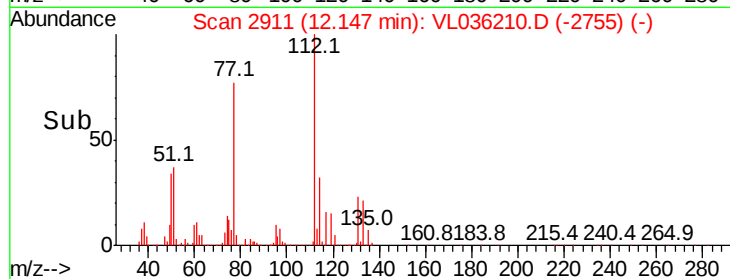
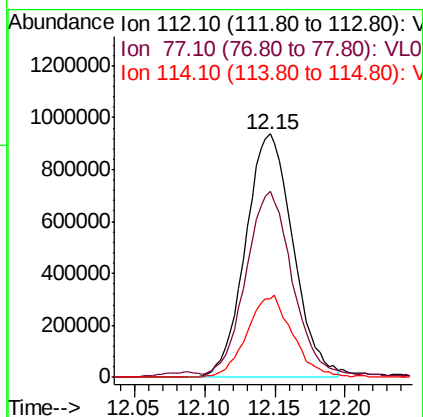
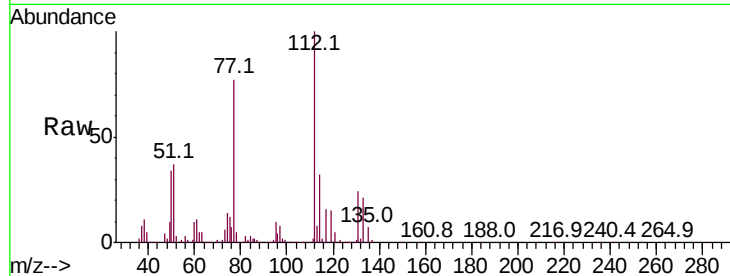
#57  
Chlorobenzene  
Concen: 9.676 ppbv  
RT: 12.15 min Scan# 2911  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 77      | 74.5  | 59.6  | 89.4  |
| 114     | 31.9  | 28.7  | 35.1  |

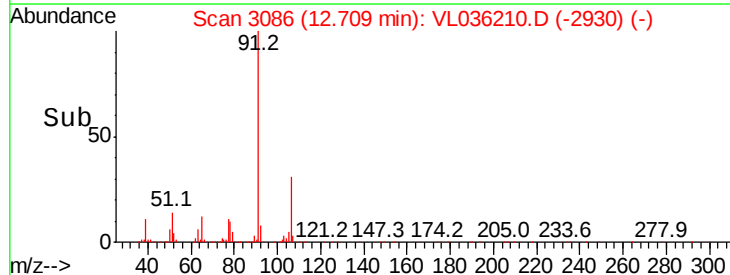
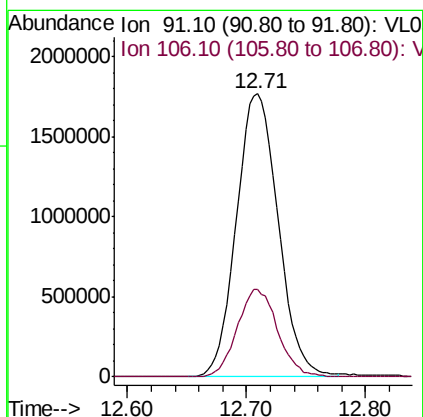
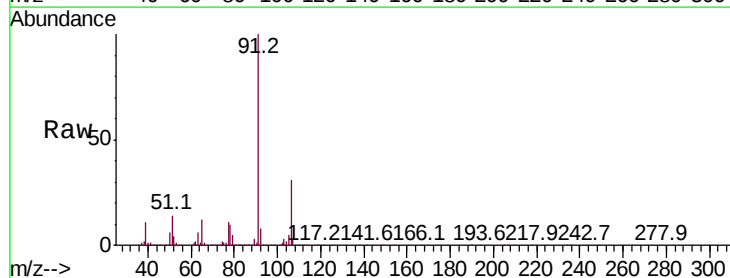
Manual Integrations  
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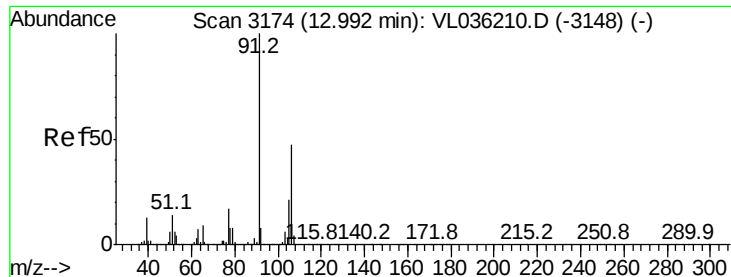
MMDadoda  
1/14/2021 6:53:43 PM



#58  
Ethyl Benzene  
Concen: 9.680 ppbv  
RT: 12.71 min Scan# 3086  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 31.0  | 24.8  | 37.2  |





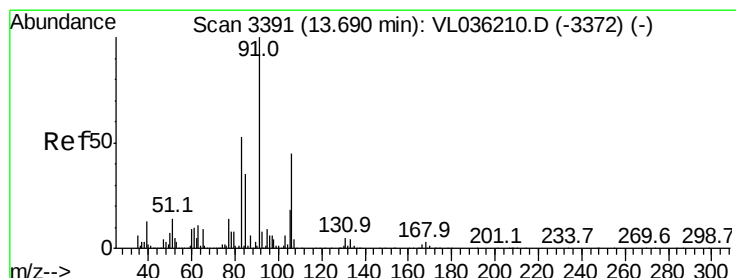
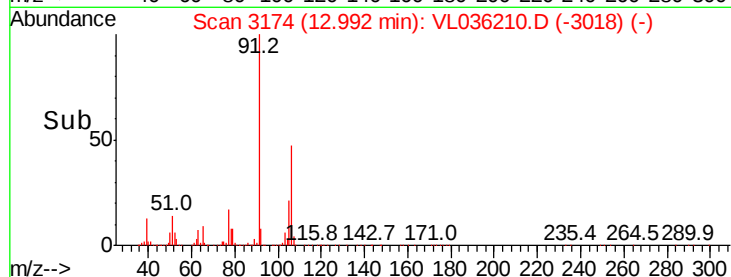
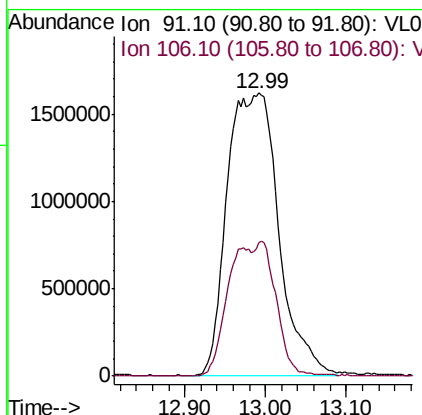
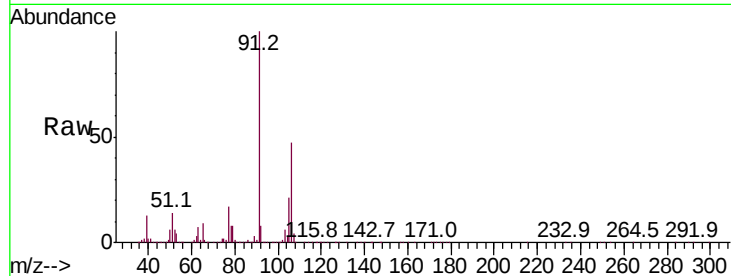
#59  
m/p-Xylene  
Concen: 19.186 ppbv m  
RT: 12.99 min Scan# 3174  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tot Ion: 91 Resp: 7176981  
Ion Ratio Lower Upper  
91 100  
106 43.2 34.6 51.8

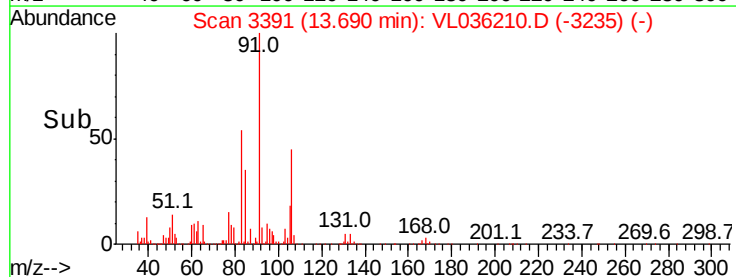
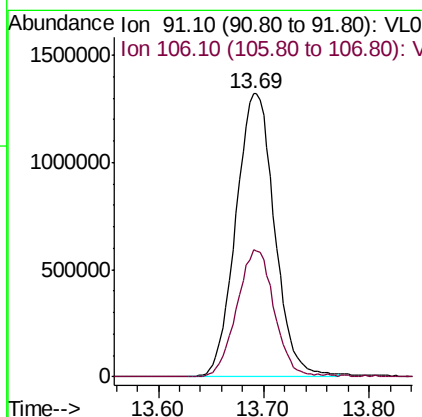
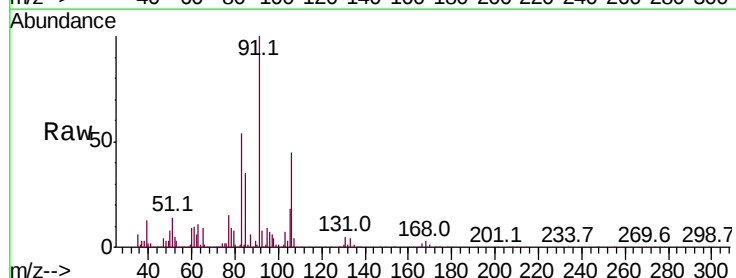
Manual Integrations  
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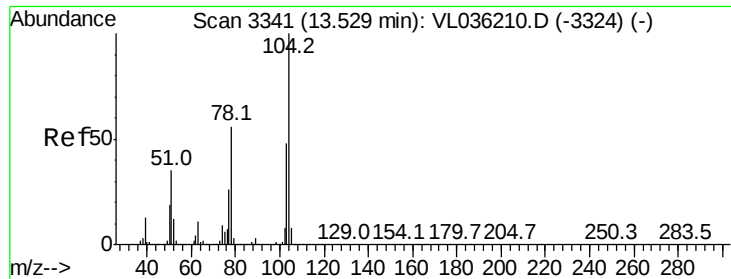
MMDadoda  
1/14/2021 6:53:43 PM



#60  
o-Xylene  
Concen: 9.528 ppbv  
RT: 13.69 min Scan# 3391  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Tgt Ion: 91 Resp: 3364264  
Ion Ratio Lower Upper  
91 100  
106 43.8 21.9 65.8





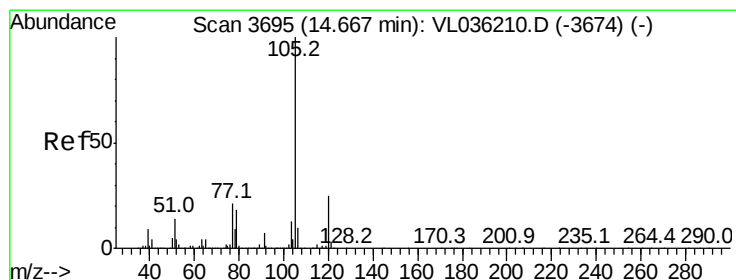
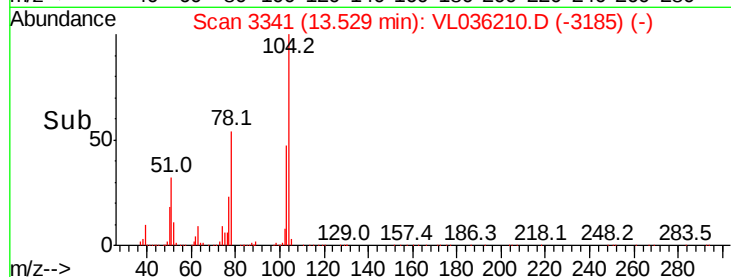
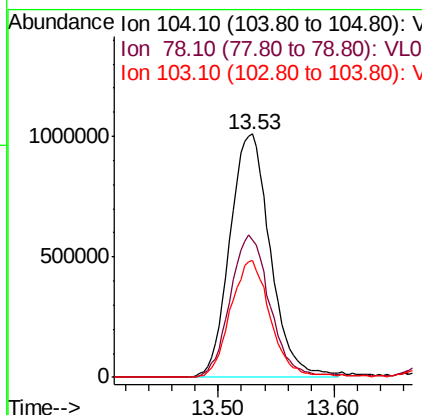
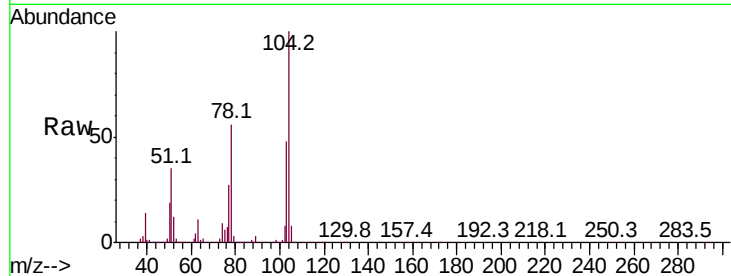
#61  
Stvrene  
Concen: 10.585 ppbv  
RT: 13.53 min Scan# 3341  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 104     | 100   |       |       |
| 78      | 58.6  | 46.8  | 70.2  |
| 103     | 48.0  | 38.4  | 57.6  |

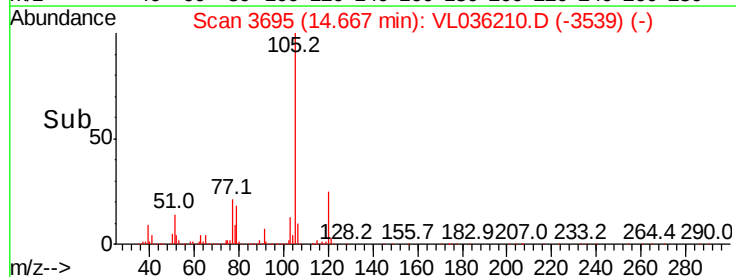
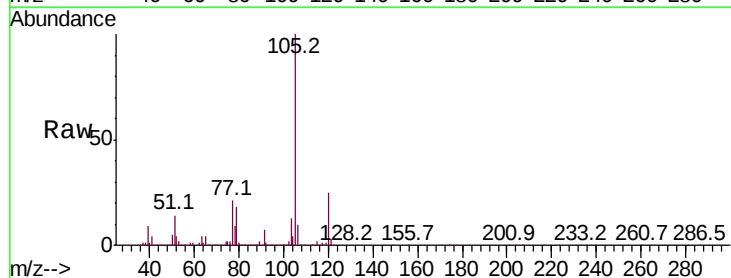
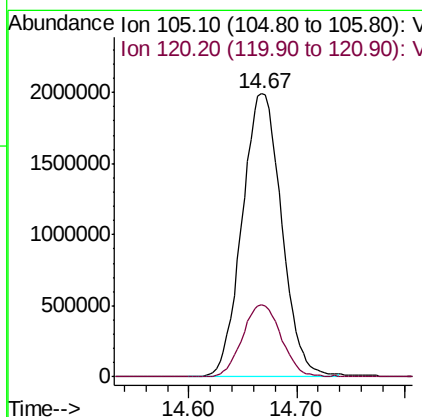
Manual Integrations  
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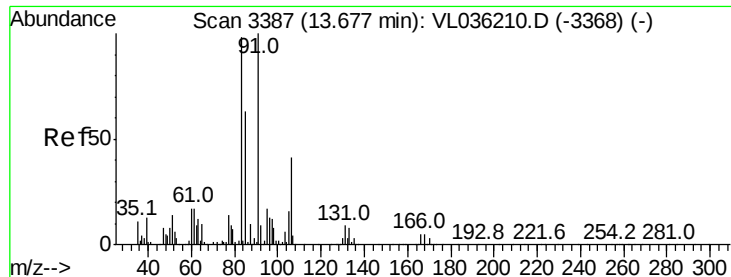
MMDadoda  
1/14/2021 6:53:43 PM



#62  
Isopropylbenzene  
Concen: 9.645 ppbv  
RT: 14.67 min Scan# 3695  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 120     | 25.4  | 20.3  | 30.5  |





#63

1,1,2,2-Tetrachloroethane

Concen: 9.835 ppbv

RT: 13.68 min Scan# 3387

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tot Ion: 83 Resp: 2358113

Ion Ratio Lower Upper

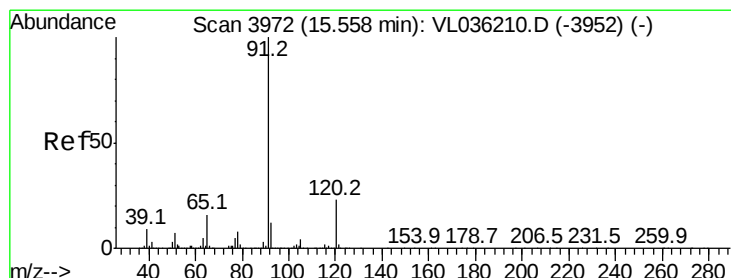
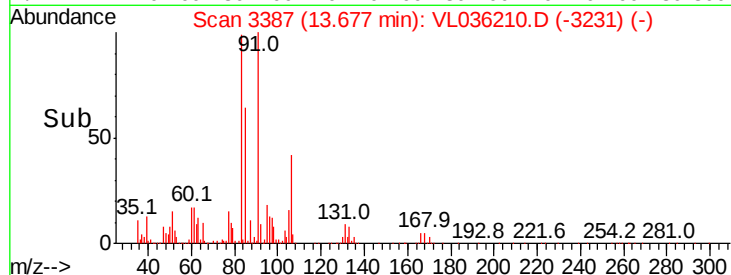
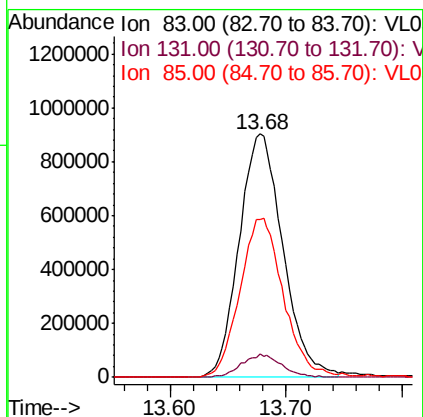
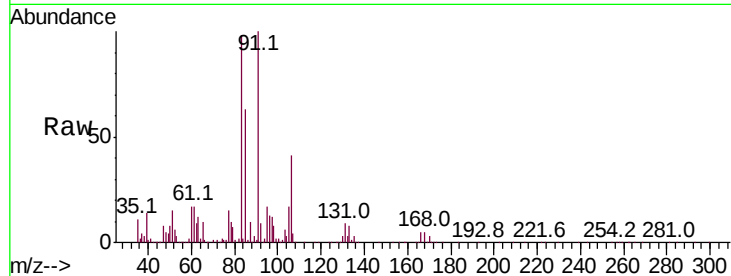
83 100

131 8.8 4.5 13.5

85 66.0 33.1 99.3

Manual Integrations  
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#64

n-propylbenzene

Concen: 10.199 ppbv

RT: 15.56 min Scan# 3972

Delta R.T. 0.00 min

Lab File: VL036210.D

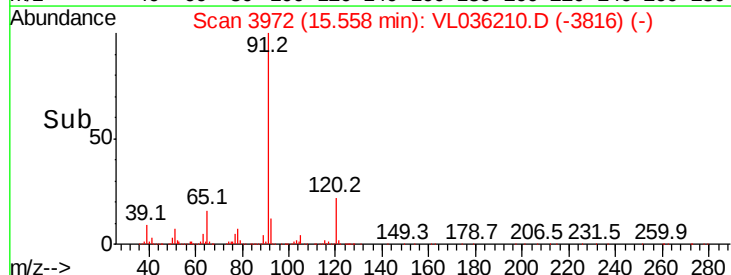
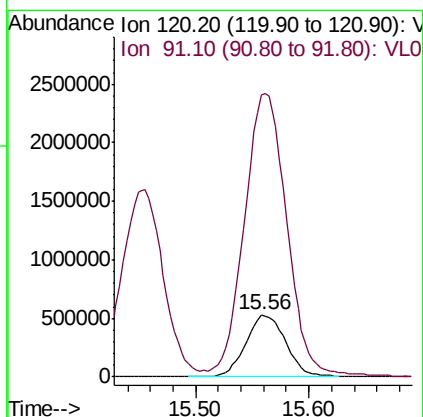
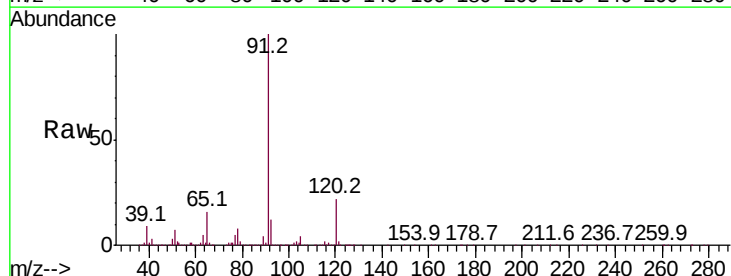
Acq: 13 Jan 2021 2:34

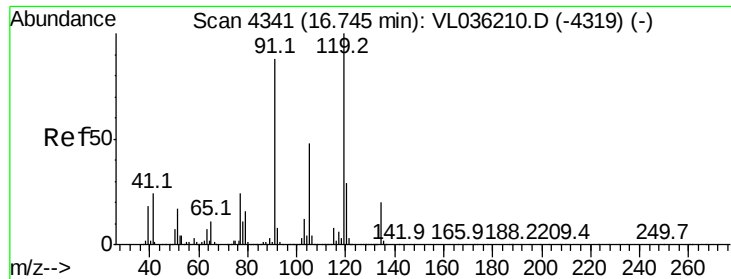
Tgt Ion: 120 Resp: 1296880

Ion Ratio Lower Upper

120 100

91 489.7 391.8 587.6





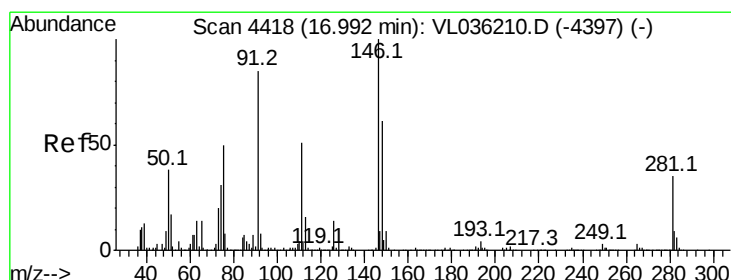
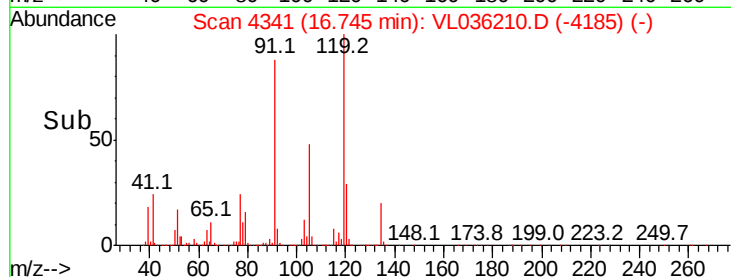
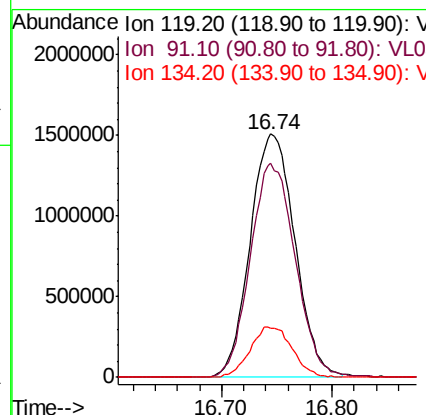
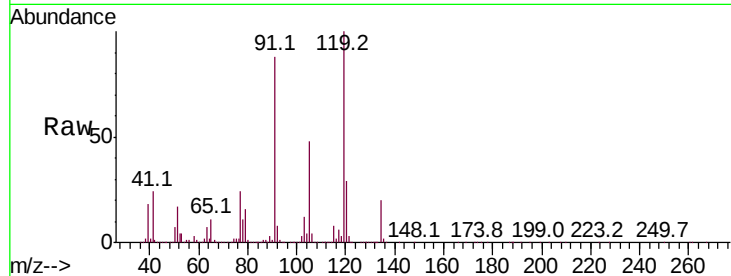
#65  
tert-Butylbenzene  
Concen: 9.805 ppbv  
RT: 16.74 min Scan# 4341  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tot Ion: 119 Resp: 4235700  
Ion Ratio Lower Upper  
119 100  
91 88.8 71.0 106.6  
134 19.7 15.8 23.6

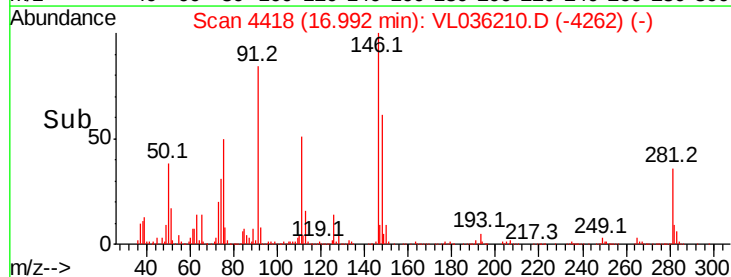
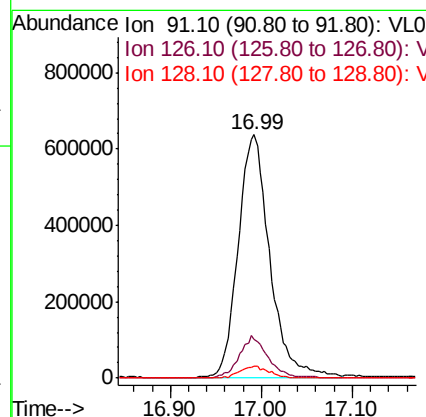
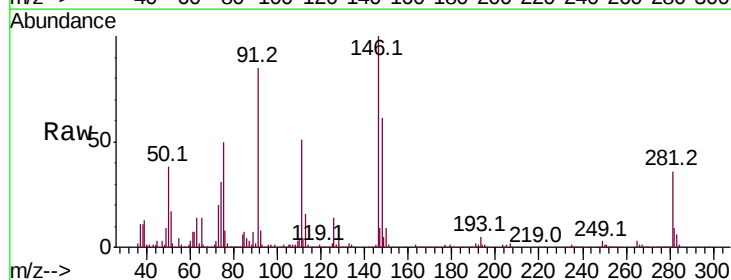
Manual Integrations  
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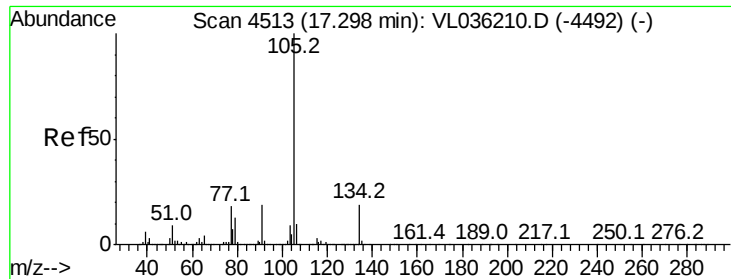
MMDadoda  
1/14/2021 6:53:43 PM



#66  
Benzyl Chloride  
Concen: 13.900 ppbv  
RT: 16.99 min Scan# 4418  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Tgt Ion: 91 Resp: 1540495  
Ion Ratio Lower Upper  
91 100  
126 15.8 12.6 19.0  
128 4.8 3.8 5.6





#67

sec-Butylbenzene

Concen: 10.149 ppbv

RT: 17.30 min Scan# 4513

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 6196014

Ion Ratio Lower Upper

105 100

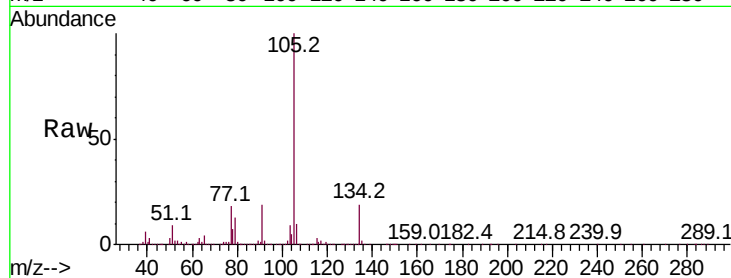
134 17.7 14.2 21.4

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.30

2500000

2000000

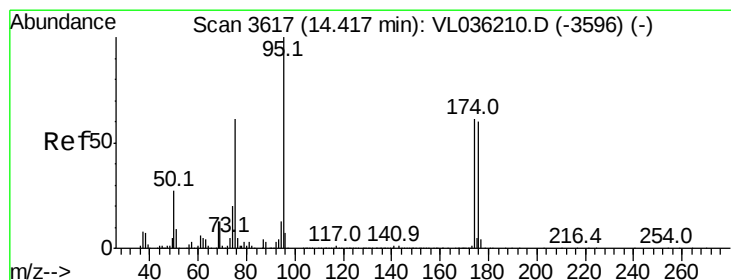
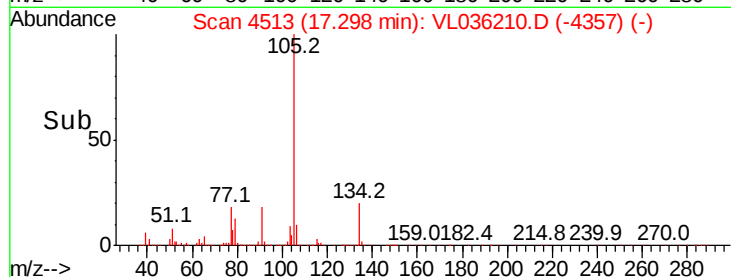
1500000

1000000

500000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.727 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

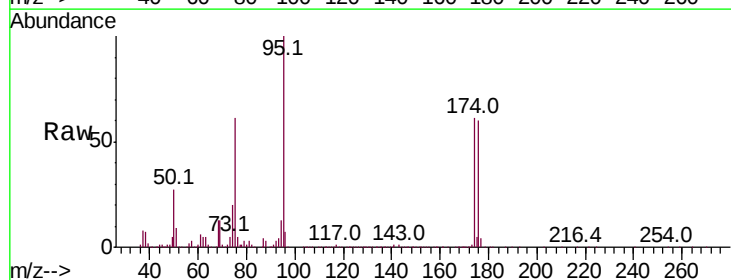
Tgt Ion: 95 Resp: 2775739

Ion Ratio Lower Upper

95 100

174 61.7 49.4 74.0

175 4.8 3.8 5.8



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

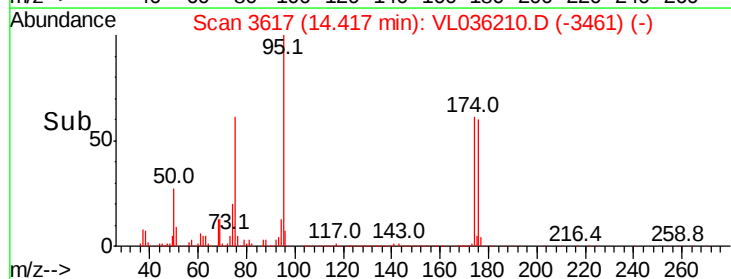
14.42

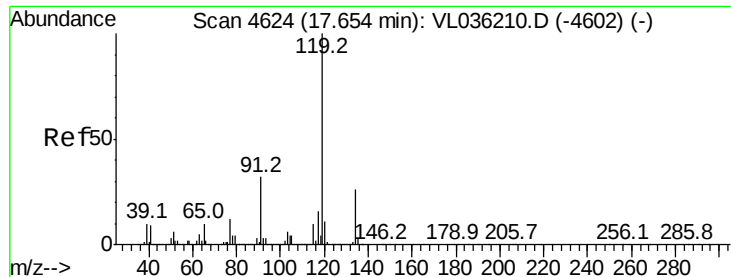
1000000

500000

0

Time-->





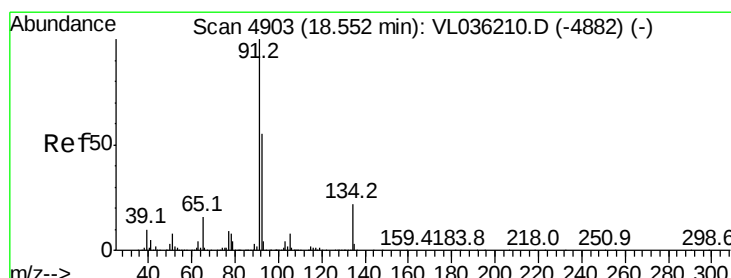
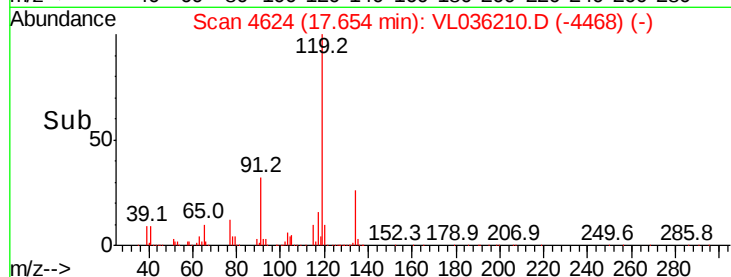
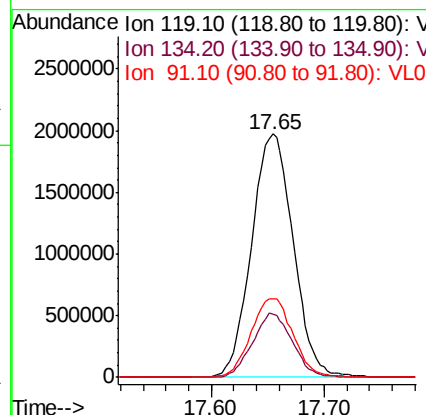
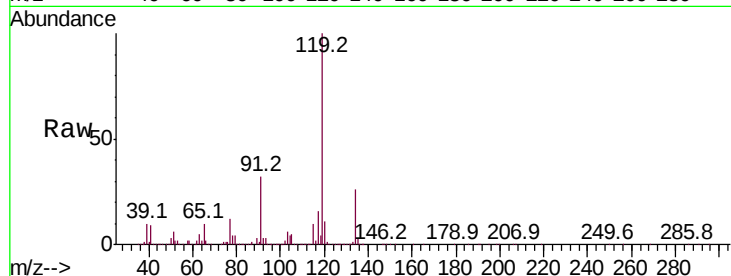
#69  
p-Isopropyltoluene  
Concen: 10.373 ppbv  
RT: 17.65 min Scan# 4624  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 25.3  | 20.2  | 30.4  |
| 91      | 32.7  | 26.0  | 39.0  |

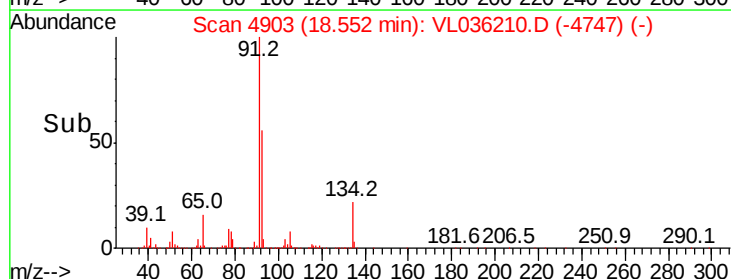
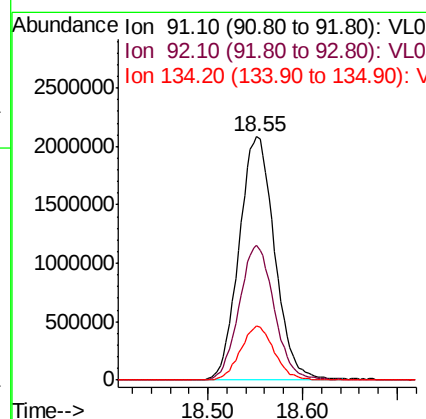
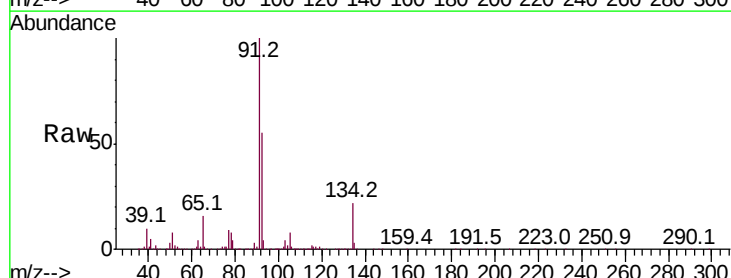
Manual Integrations  
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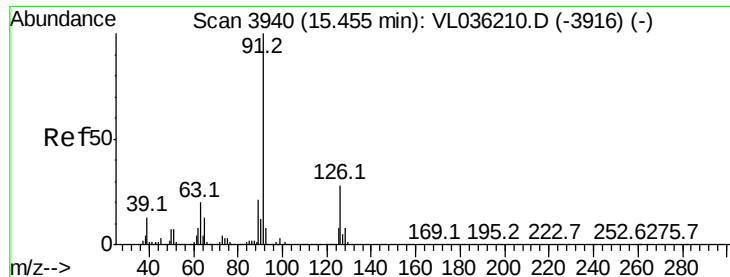
MMDadoda  
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#70  
n-Butylbenzene  
Concen: 11.111 ppbv  
RT: 18.55 min Scan# 4903  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 92      | 55.0  | 44.0  | 66.0  |
| 134     | 21.2  | 17.0  | 25.4  |





#71

2-Chlorotoluene

Concen: 10.121 ppbv

RT: 15.46 min Scan# 3940

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 4061027

Ion Ratio Lower Upper

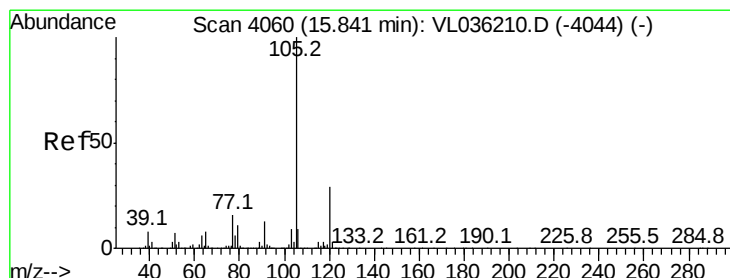
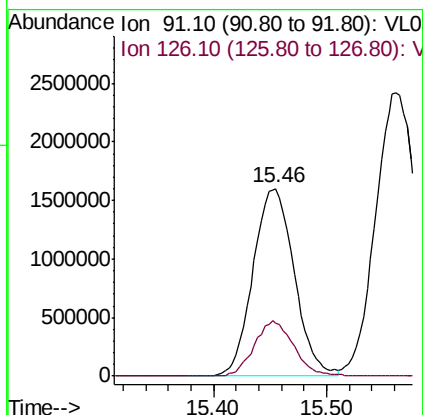
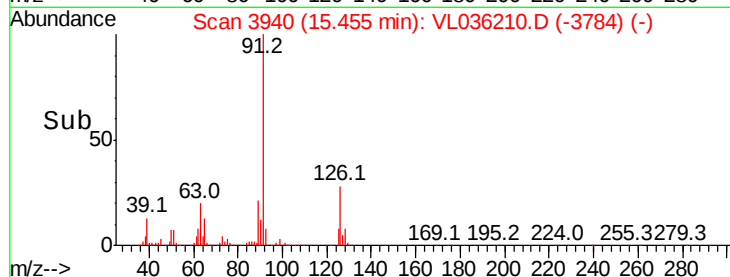
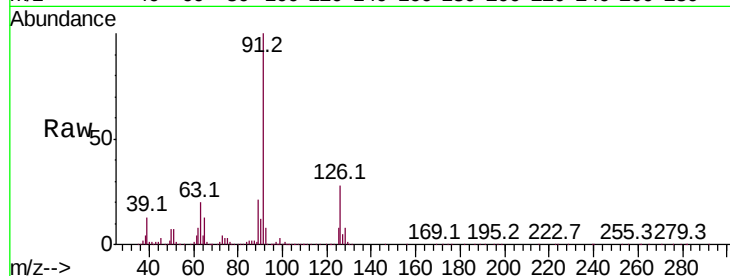
91 100

126 28.7 11.5 45.9

Manual Integrations  
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#72

4-Ethyltoluene

Concen: 10.204 ppbv

RT: 15.84 min Scan# 4060

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Tgt Ion: 105 Resp: 3951643

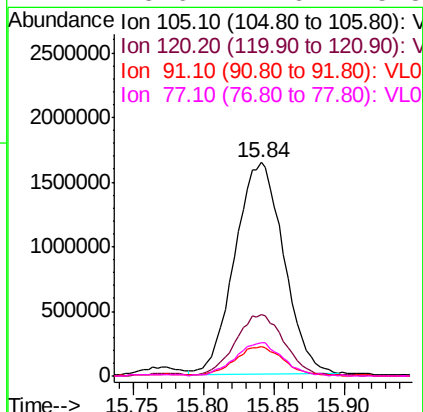
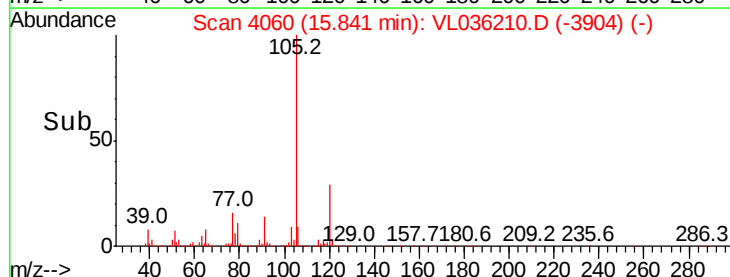
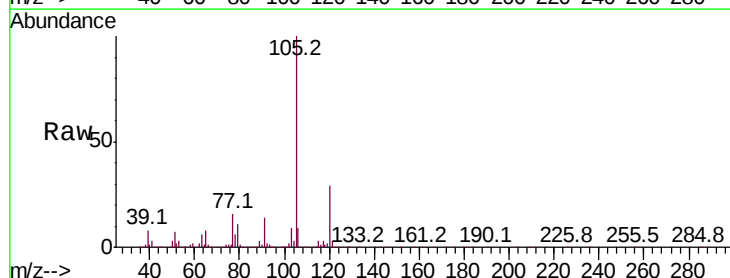
Ion Ratio Lower Upper

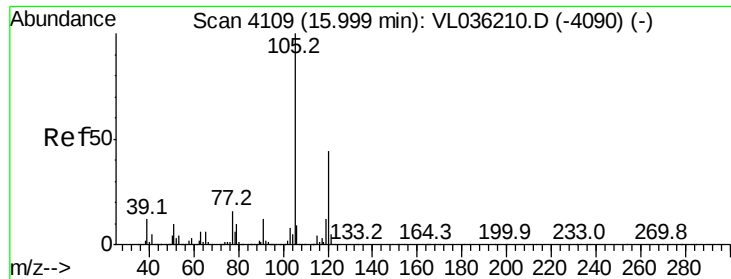
105 100

120 29.4 23.7 35.5

91 13.7 11.9 17.9

77 15.6 12.6 18.8





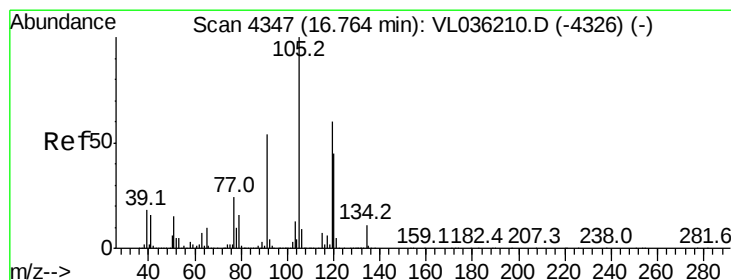
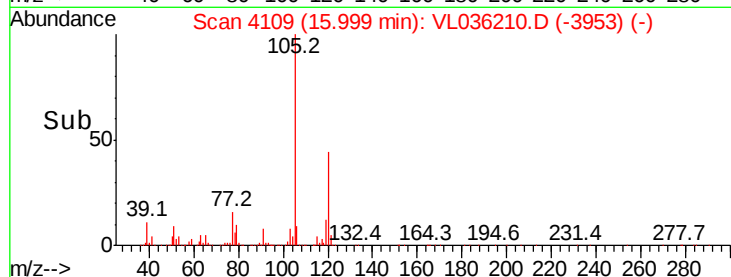
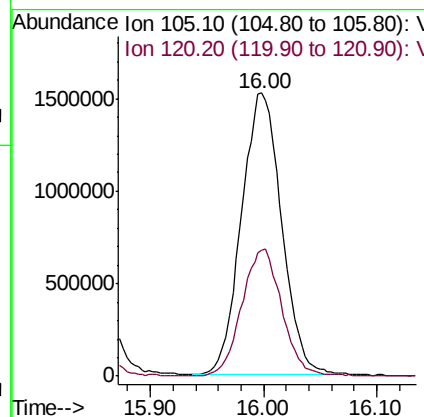
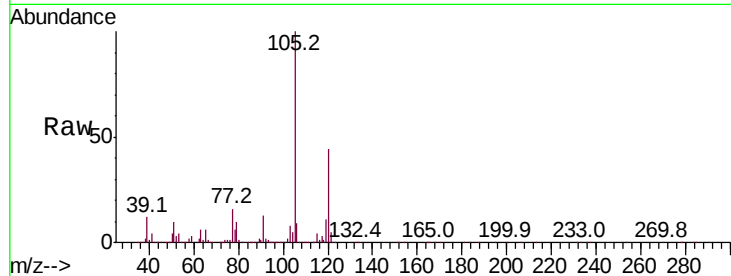
#73  
 1,3,5-Trimethylbenzene  
 Concen: 10.176 ppbv  
 RT: 16.00 min Scan# 4109  
 Delta R.T. 0.00 min  
 Lab File: VL036210.D  
 Acq: 13 Jan 2021 2:34

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Tot Ion:105 Resp: 3771638  
 Ion Ratio Lower Upper  
 105 100  
 120 44.4 35.5 53.3

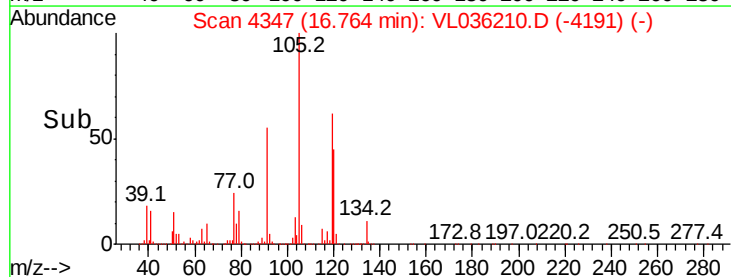
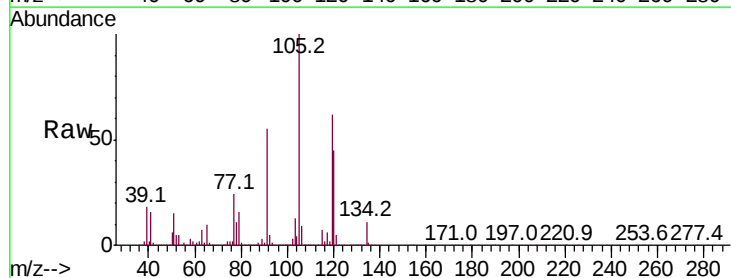
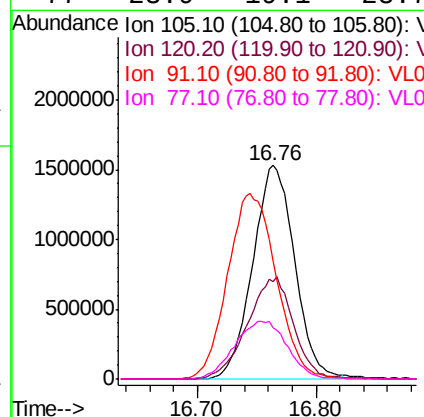
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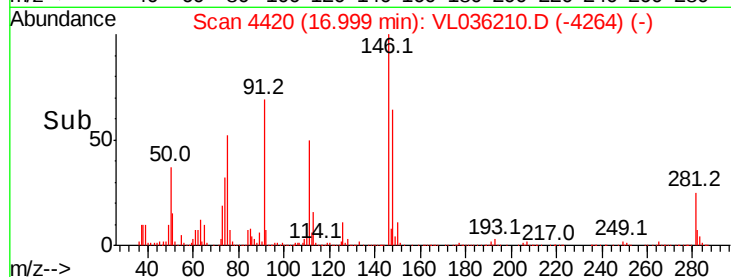
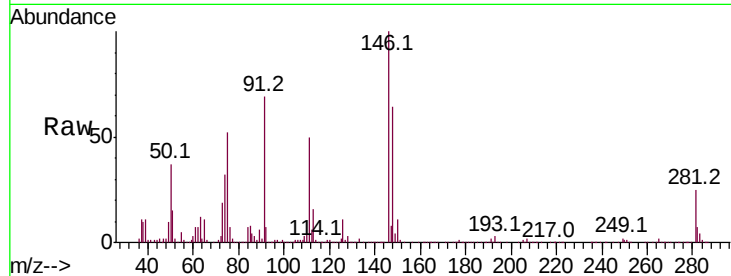
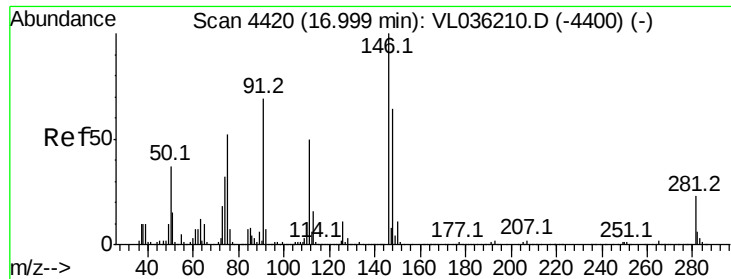
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#74  
 1,2,4-Trimethylbenzene  
 Concen: 10.053 ppbv  
 RT: 16.76 min Scan# 4347  
 Delta R.T. 0.00 min  
 Lab File: VL036210.D  
 Acq: 13 Jan 2021 2:34

Tgt Ion:105 Resp: 3737080  
 Ion Ratio Lower Upper  
 105 100  
 120 45.2 36.2 54.2  
 91 54.1 43.3 64.9  
 77 23.9 19.1 28.7





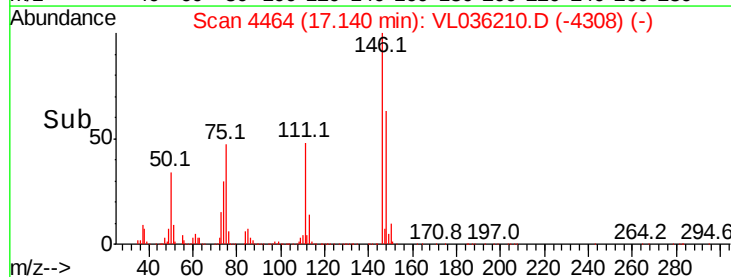
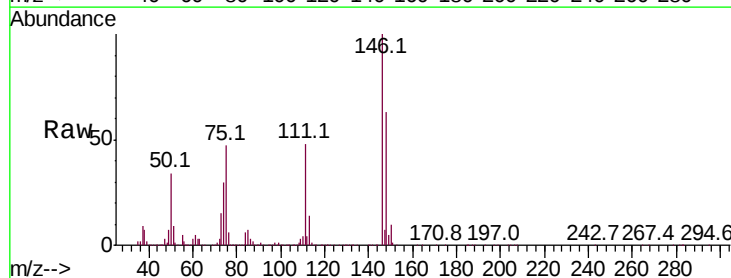
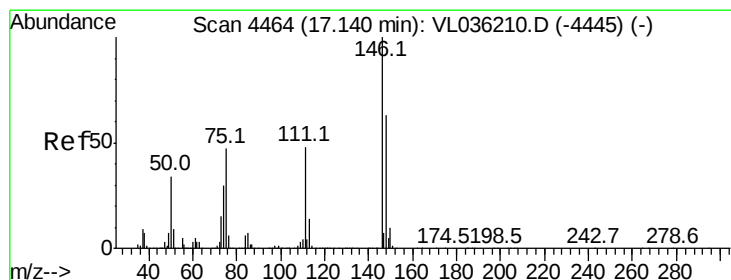
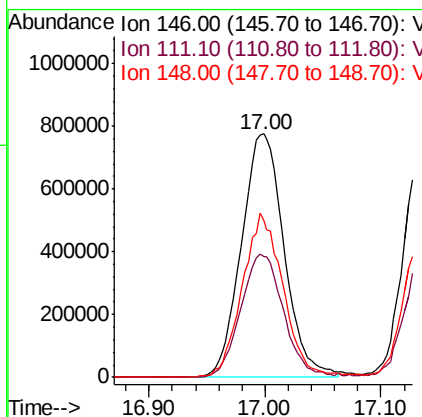
#75  
 1,3-Dichlorobenzene  
 Concen: 10.596 ppbv  
 RT: 17.00 min Scan# 4420  
 Delta R.T. 0.00 min  
 Lab File: VL036210.D  
 Acq: 13 Jan 2021 2:34

Tot Ion:146 Resp: 1988012  
 Ion Ratio Lower Upper  
 146 100  
 111 51.0 25.5 76.5  
 148 64.7 32.4 97.2

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

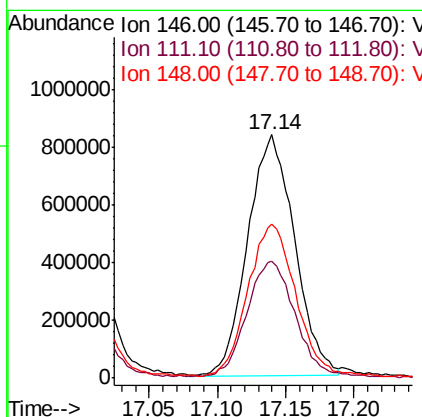
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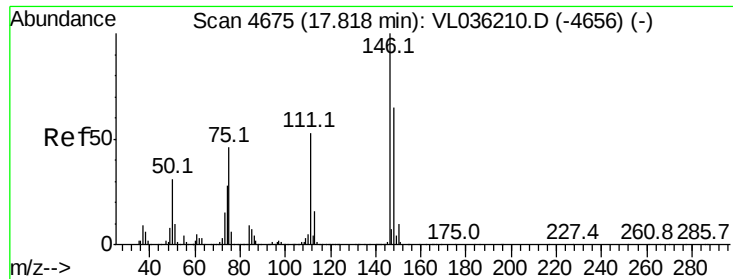
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#76  
 1,4-Dichlorobenzene  
 Concen: 10.469 ppbv  
 RT: 17.14 min Scan# 4464  
 Delta R.T. 0.00 min  
 Lab File: VL036210.D  
 Acq: 13 Jan 2021 2:34

Tgt Ion:146 Resp: 1999814  
 Ion Ratio Lower Upper  
 146 100  
 111 51.4 25.4 76.0  
 148 67.3 33.3 99.9





#77

1,2-Dichlorobenzene

Concen: 10.953 ppbv

RT: 17.82 min Scan# 4675

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tot Ion:146 Resp: 1991230

Ion Ratio Lower Upper

146 100

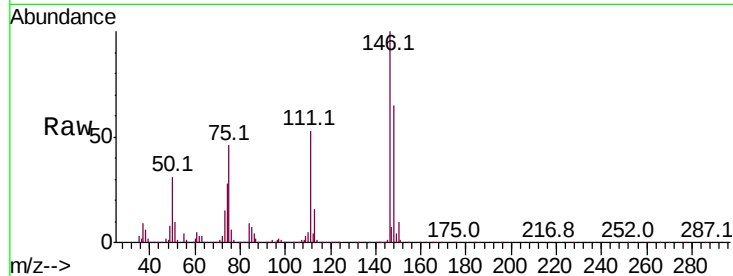
111 52.4 26.5 79.4

148 65.4 32.8 98.4

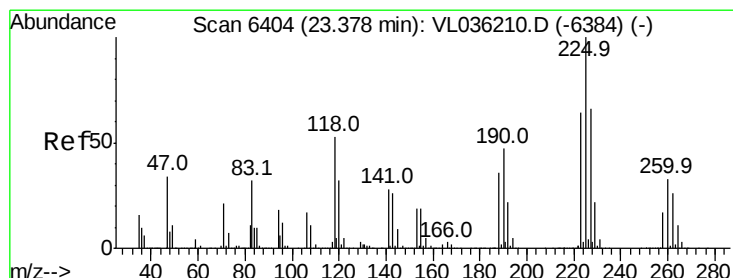
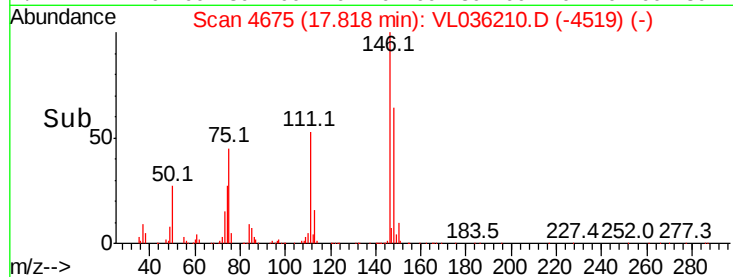
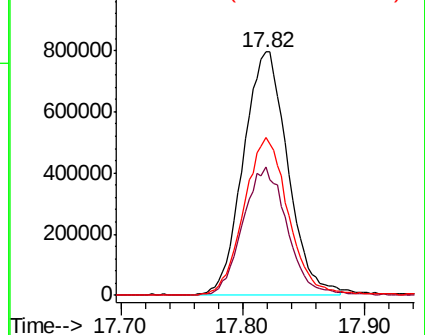
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Abundance Ion 146.00 (145.70 to 146.70): V  
Ion 111.10 (110.80 to 111.80): V  
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 10.211 ppbv

RT: 23.38 min Scan# 6404

Delta R.T. 0.00 min

Lab File: VL036210.D

Acq: 13 Jan 2021 2:34

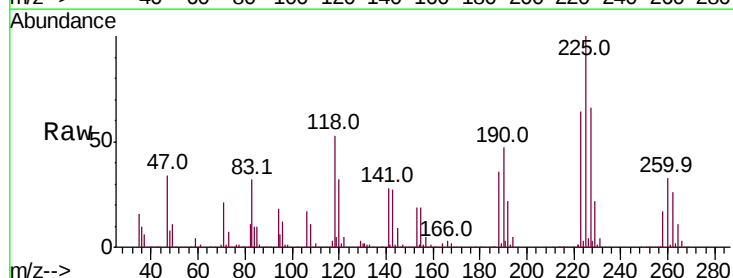
Tgt Ion:225 Resp: 1466069

Ion Ratio Lower Upper

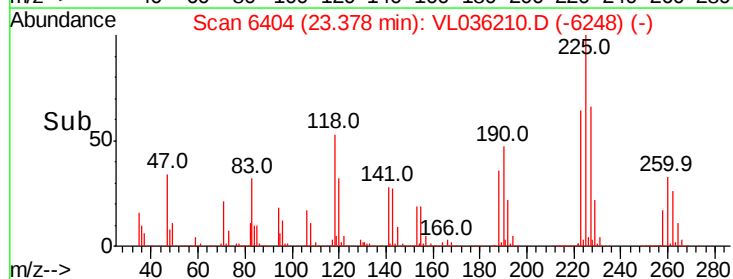
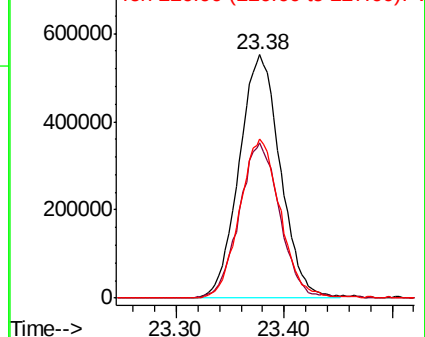
225 100

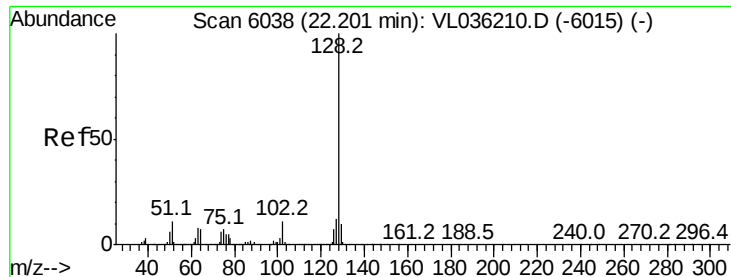
223 63.1 50.5 75.7

227 64.6 51.7 77.5



Abundance Ion 224.90 (224.60 to 225.60): V  
Ion 222.90 (222.60 to 223.60): V  
Ion 226.90 (226.60 to 227.60): V





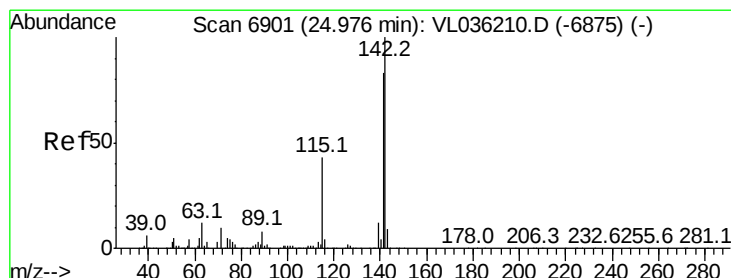
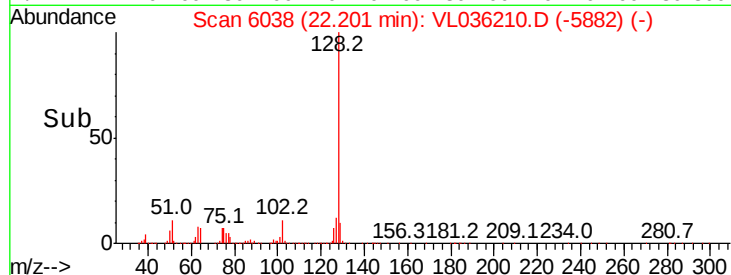
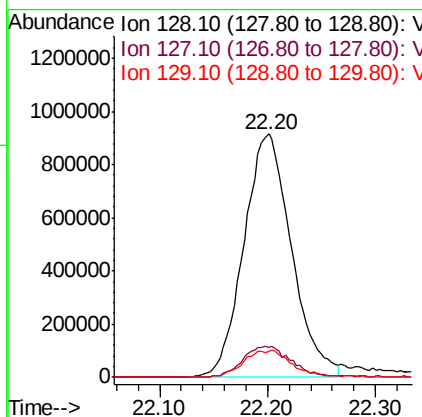
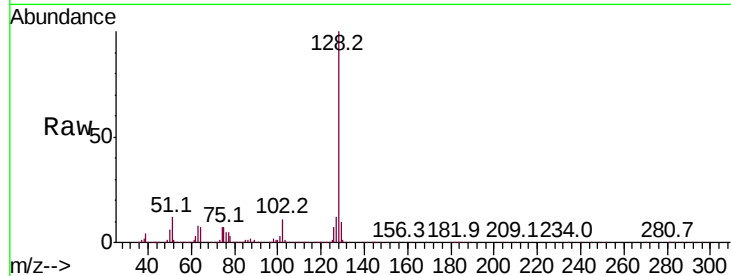
#79  
Naphthalene  
Concen: 14.098 ppbv  
RT: 22.20 min Scan# 6038  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.4  | 9.9   | 14.9  |
| 129     | 10.5  | 8.4   | 12.6  |

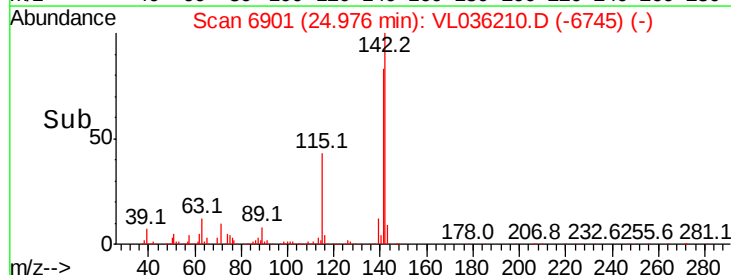
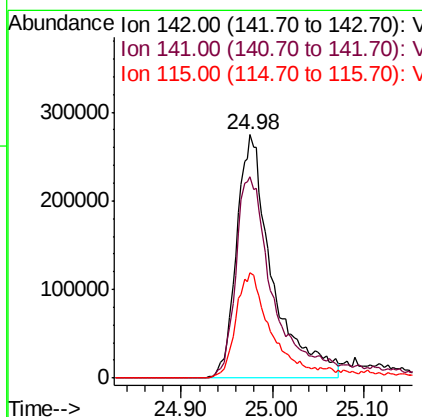
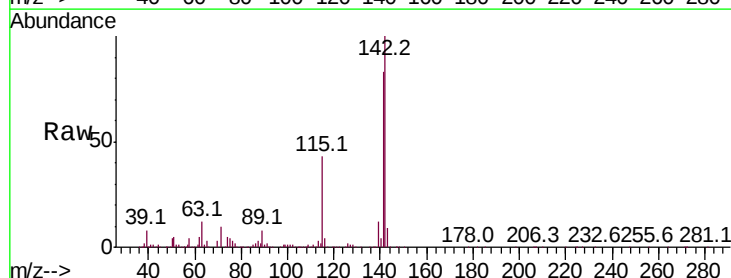
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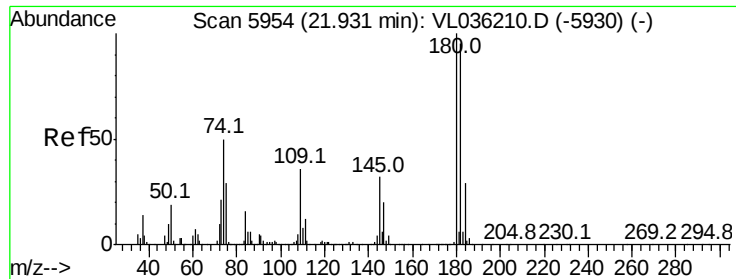
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#80  
Naphthalene, 2-methyl-  
Concen: 18.373 ppbv  
RT: 24.98 min Scan# 6901  
Delta R.T. 0.00 min  
Lab File: VL036210.D  
Acq: 13 Jan 2021 2:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 94.9  | 68.6  | 102.8 |
| 115     | 48.8  | 32.9  | 49.3  |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 11.453 ppbv  
 RT: 21.93 min Scan# 5954  
 Delta R.T. 0.00 min  
 Lab File: VL036210.D  
 Acq: 13 Jan 2021 2:34

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 100.0 | 79.9  | 119.9 |
| 184     | 33.1  | 25.6  | 38.4  |

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