

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081418\  
 Data File : VN050637.D  
 Acq On : 15 Aug 2018 6:23  
 Operator : MD\SY  
 Sample : J4465-07MSD  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 944-MW-05(17)MSD

Manual Integrations  
 APPROVED

MMDadoda  
 8/15/2018 3:32:49 PM

Quant Time: Aug 15 14:48:13 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N081418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 14 08:07:08 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 669270   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 988799   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 893147   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 442048   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 8.03   | 65  | 415850   | 49.29 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.58% |      |
| 35) Dibromofluoromethane  | 7.59   | 113 | 389362   | 49.32 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.64% |      |
| 50) Toluene-d8            | 10.09  | 98  | 1467847  | 49.41 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 98.82% |      |
| 62) 4-Bromofluorobenzene  | 12.40  | 95  | 471963   | 48.09 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 96.18% |      |

## Target Compounds

|                               |      |     |         |        |        | Qvalue |
|-------------------------------|------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.85 | 85  | 334538  | 44.34  | ug/l   | 99     |
| 3) Chloromethane              | 2.06 | 50  | 450227  | 48.96  | ug/l   | 99     |
| 4) Vinyl Chloride             | 2.18 | 62  | 467282  | 46.62  | ug/l   | 99     |
| 5) Bromomethane               | 2.56 | 94  | 278642  | 51.80  | ug/l   | 98     |
| 6) Chloroethane               | 2.70 | 64  | 279574  | 50.20  | ug/l   | 100    |
| 7) Trichlorofluoromethane     | 3.01 | 101 | 604438  | 45.96  | ug/l   | 99     |
| 8) Diethyl Ether              | 3.41 | 74  | 217193  | 49.65  | ug/l   | 98     |
| 9) 1,1,2-Trichlorotrifluoroet | 3.76 | 101 | 358942  | 45.13  | ug/l   | 100    |
| 10) Methyl Iodide             | 3.95 | 142 | 291333  | 51.32  | ug/l   | 100    |
| 11) Tert butyl alcohol        | 4.79 | 59  | 111303  | 241.63 | ug/l # | 72     |
| 12) 1,1-Dichloroethene        | 3.74 | 96  | 349018  | 48.06  | ug/l   | 97     |
| 13) Acrolein                  | 3.61 | 56  | 38294   | 216.87 | ug/l   | 98     |
| 14) Allyl chloride            | 4.33 | 41  | 539697  | 47.78  | ug/l   | 99     |
| 15) Acrylonitrile             | 4.99 | 53  | 614835  | 243.02 | ug/l   | 99     |
| 16) Acetone                   | 3.82 | 43  | 518681  | 246.22 | ug/l   | 99     |
| 17) Carbon Disulfide          | 4.05 | 76  | 1072710 | 46.94  | ug/l   | 100    |
| 18) Methyl Acetate            | 4.33 | 43  | 279330  | 47.09  | ug/l   | 99     |
| 19) Methyl tert-butyl Ether   | 5.05 | 73  | 948522  | 51.32  | ug/l   | 100    |
| 20) Methylene Chloride        | 4.55 | 84  | 406650  | 50.73  | ug/l   | 99     |
| 21) trans-1,2-Dichloroethene  | 5.04 | 96  | 380388  | 48.32  | ug/l   | 100    |
| 22) Diisopropyl ether         | 5.96 | 45  | 1197832 | 51.72  | ug/l   | 99     |
| 23) Vinyl Acetate             | 5.90 | 43  | 3788589 | 250.07 | ug/l   | 100    |
| 24) 1,1-Dichloroethane        | 5.85 | 63  | 714851  | 47.70  | ug/l   | 100    |
| 25) 2-Butanone                | 6.84 | 43  | 825459  | 238.65 | ug/l   | 100    |
| 26) 2,2-Dichloropropane       | 6.83 | 77  | 401905  | 40.07  | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene    | 6.83 | 96  | 428504  | 48.88  | ug/l   | 99     |
| 28) Bromochloromethane        | 7.20 | 49  | 338615  | 49.65  | ug/l   | 99     |
| 29) Tetrahydrofuran           | 7.22 | 42  | 450894  | 249.66 | ug/l   | 99     |
| 30) Chloroform                | 7.37 | 83  | 716655  | 47.19  | ug/l   | 99     |
| 31) Cyclohexane               | 7.66 | 56  | 622029  | 48.63  | ug/l   | 98     |
| 32) 1,1,1-Trichloroethane     | 7.57 | 97  | 607046  | 47.49  | ug/l   | 100    |
| 36) 1,1-Dichloropropene       | 7.80 | 75  | 544203  | 49.44  | ug/l   | 99     |
| 37) Ethyl Acetate             | 6.93 | 43  | 303187  | 48.73  | ug/l   | 99     |
| 38) Carbon Tetrachloride      | 7.78 | 117 | 543571  | 47.60  | ug/l   | 99     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081418\  
 Data File : VN050637.D  
 Acq On : 15 Aug 2018 6:23  
 Operator : MD\SY  
 Sample : J4465-07MSD  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 944-MW-05(17)MSD

Manual Integrations  
 APPROVED

MMDadoda  
 8/15/2018 3:32:49 PM

Quant Time: Aug 15 14:48:13 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N081418W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 14 08:07:08 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 39) Methylcyclohexane          | 9.08  | 83   | 564022   | 49.49  | ug/l  | 100      |
| 40) Benzene                    | 8.04  | 78   | 1661017  | 49.60  | ug/l  | 99       |
| 41) Methacrylonitrile          | 7.18  | 41   | 157640   | 46.86  | ug/l  | 92       |
| 42) 1,2-Dichloroethane         | 8.13  | 62   | 494673   | 48.20  | ug/l  | 99       |
| 43) Isopropyl Acetate          | 8.17  | 43   | 536802   | 47.34  | ug/l  | 97       |
| 44) Trichloroethene            | 8.84  | 130  | 436690   | 48.68  | ug/l  | 98       |
| 45) 1,2-Dichloropropane        | 9.12  | 63   | 439747   | 49.33  | ug/l  | 99       |
| 46) Dibromomethane             | 9.21  | 93   | 251057   | 47.69  | ug/l  | 97       |
| 47) Bromodichloromethane       | 9.40  | 83   | 540708   | 48.06  | ug/l  | 100      |
| 48) Methyl methacrylate        | 9.20  | 41   | 274745   | 48.15  | ug/l  | 99       |
| 49) 1,4-Dioxane                | 9.20  | 88   | 72762    | 968.06 | ug/l  | 100      |
| 51) 4-Methyl-2-Pentanone       | 9.99  | 43   | 1918835  | 250.22 | ug/l  | 100      |
| 52) Toluene                    | 10.16 | 92   | 1007301  | 50.38  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene      | 10.38 | 75   | 507639   | 48.44  | ug/l  | 100      |
| 54) cis-1,3-Dichloropropene    | 9.84  | 75   | 580292   | 48.27  | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 10.56 | 97   | 357243   | 47.83  | ug/l  | 99       |
| 56) Ethyl methacrylate         | 10.43 | 69   | 446719   | 47.00  | ug/l  | 99       |
| 57) 1,3-Dichloropropane        | 10.71 | 76   | 602327   | 49.19  | ug/l  | 99       |
| 59) 2-Hexanone                 | 10.75 | 43   | 1238919  | 250.32 | ug/l  | 99       |
| 60) Dibromochloromethane       | 10.90 | 129  | 411905   | 49.97  | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 11.01 | 107  | 351690   | 49.44  | ug/l  | 99       |
| 64) Tetrachloroethene          | 10.63 | 164  | 804718   | 97.02  | ug/l  | 98       |
| 65) Chlorobenzene              | 11.43 | 112  | 1087858  | 48.94  | ug/l  | 100      |
| 66) 1,1,1,2-Tetrachloroethane  | 11.51 | 131  | 410145   | 49.22  | ug/l  | 100      |
| 67) Ethyl Benzene              | 11.51 | 91   | 1875191  | 52.25  | ug/l  | 100      |
| 68) m/p-Xylenes                | 11.62 | 106  | 1429340  | 104.12 | ug/l  | 100      |
| 69) o-Xylene                   | 11.95 | 106  | 690198   | 52.73  | ug/l  | 100      |
| 70) Styrene                    | 11.96 | 104  | 1117700  | 48.05  | ug/l  | 100      |
| 71) Bromoform                  | 12.13 | 173  | 266204   | 48.18  | ug/l  | # 98     |
| 73) Isopropylbenzene           | 12.25 | 105  | 1802332  | 52.19  | ug/l  | 100      |
| 74) N-amyl acetate             | 12.07 | 43   | 443864   | 49.40  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.50 | 83   | 421051   | 52.63  | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 12.55 | 75   | 350664m  | 49.08  | ug/l  |          |
| 77) Bromobenzene               | 12.53 | 156  | 453207   | 48.33  | ug/l  | 98       |
| 78) n-propylbenzene            | 12.59 | 91   | 2020730  | 52.47  | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 12.68 | 91   | 1209539  | 50.37  | ug/l  | 100      |
| 80) 1,3,5-Trimethylbenzene     | 12.73 | 105  | 1468933  | 53.12  | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.30 | 75   | 96357    | 48.46  | ug/l  | 97       |
| 82) 4-Chlorotoluene            | 12.77 | 91   | 1220735  | 51.45  | ug/l  | 99       |
| 83) tert-Butylbenzene          | 12.99 | 119  | 1265992  | 52.74  | ug/l  | 98       |
| 84) 1,2,4-Trimethylbenzene     | 13.04 | 105  | 1488887  | 53.64  | ug/l  | 100      |
| 85) sec-Butylbenzene           | 13.17 | 105  | 1625727  | 51.83  | ug/l  | 99       |
| 86) p-Isopropyltoluene         | 13.29 | 119  | 1416119  | 53.28  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene        | 13.28 | 146  | 779242   | 48.82  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 13.36 | 146  | 759466   | 47.94  | ug/l  | 100      |
| 89) n-Butylbenzene             | 13.62 | 91   | 1100143  | 51.26  | ug/l  | 99       |
| 90) Hexachloroethane           | 13.87 | 117  | 257037   | 48.09  | ug/l  | 99       |
| 91) 1,2-Dichlorobenzene        | 13.65 | 146  | 760363   | 48.82  | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 14.27 | 75   | 58385    | 47.38  | ug/l  | 98       |
| 93) 1,2,4-Trichlorobenzene     | 14.91 | 180  | 369360   | 46.42  | ug/l  | 99       |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081418\  
Data File : VN050637.D  
Acq On : 15 Aug 2018 6:23  
Operator : MD\SY  
Sample : J4465-07MSD  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 49 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
944-MW-05(17)MSD

Manual Integrations  
APPROVED

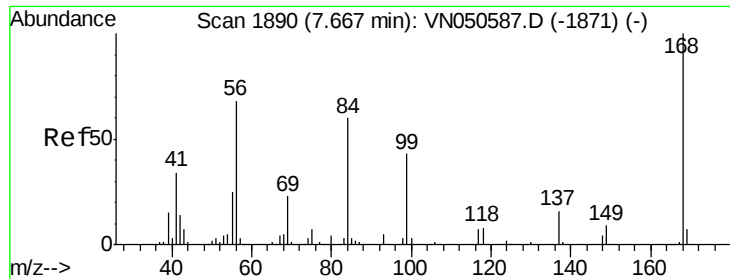
MMDadoda  
8/15/2018 3:32:49 PM

Quant Time: Aug 15 14:48:13 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N081418W.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 14 08:07:08 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 94) Hexachlorobutadiene    | 15.01 | 225  | 216619   | 45.37 | ug/l  | 98       |
| 95) Naphthalene            | 15.13 | 128  | 777979   | 46.08 | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene | 15.32 | 180  | 362882   | 48.66 | ug/l  | 99       |

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





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

ClientSampleId :

944-MW-05(17)MSD

Tot Ion:168 Resp: 669270

Ion Ratio Lower Upper

168 100

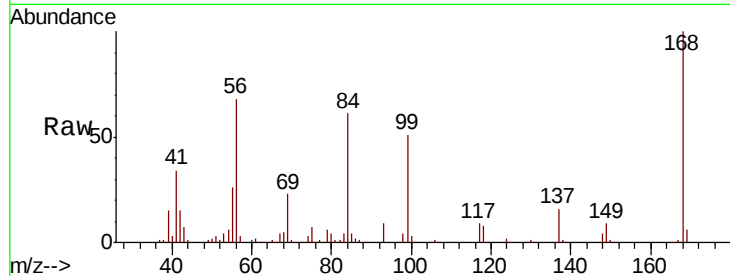
99 50.4 40.8 61.2

Manual Integrations

APPROVED

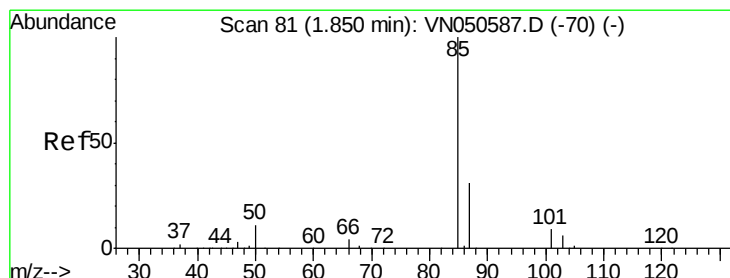
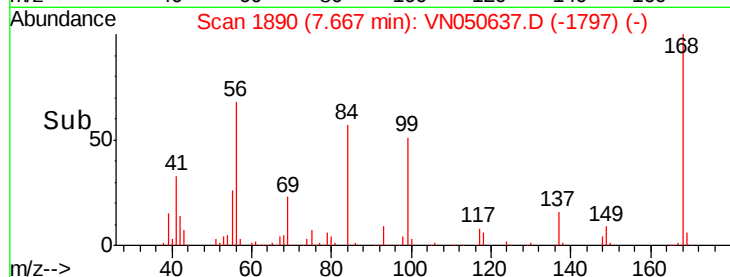
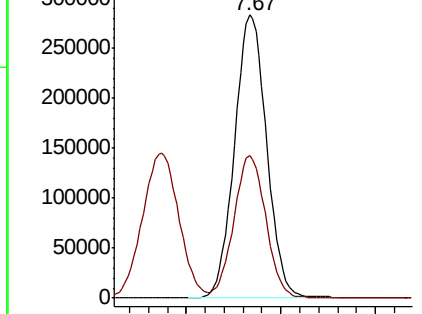
MMDadoda

8/15/2018 3:32:49 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 44.34 ug/l

RT: 1.85 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN050637.D

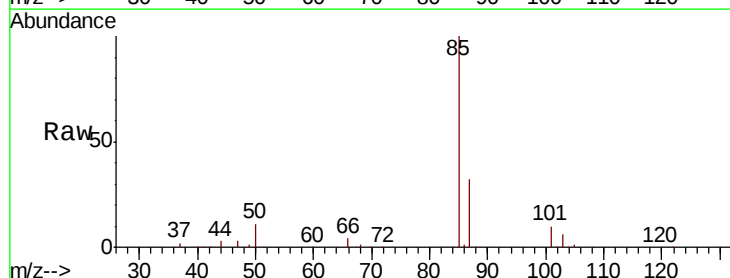
Acq: 15 Aug 2018 6:23

Tgt Ion: 85 Resp: 334538

Ion Ratio Lower Upper

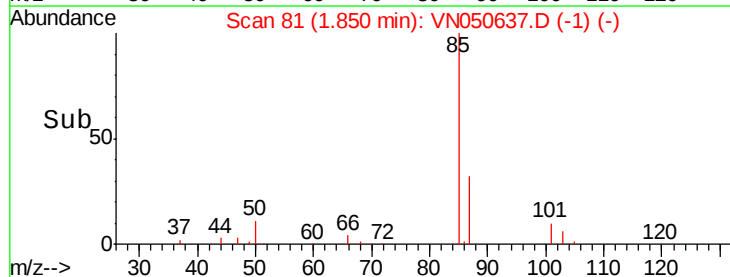
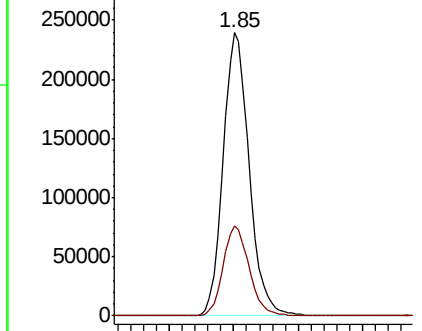
85 100

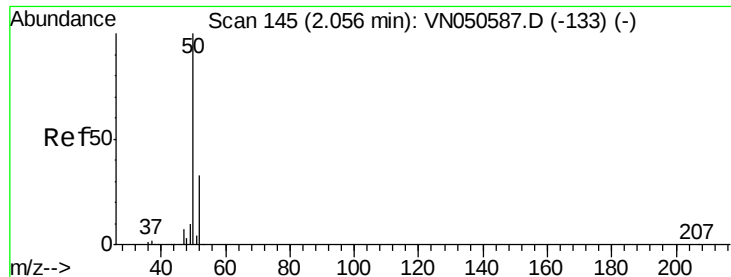
87 31.9 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 48.96 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

ClientSampleId :

944-MW-05(17)MSD

Tot Ion: 50 Resp: 450227

Ion Ratio Lower Upper

50 100

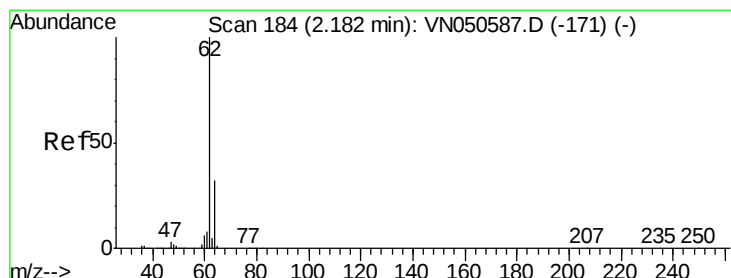
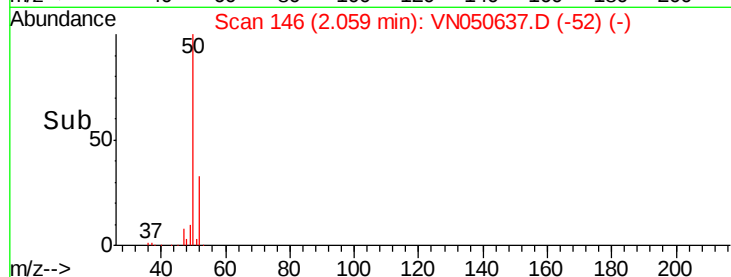
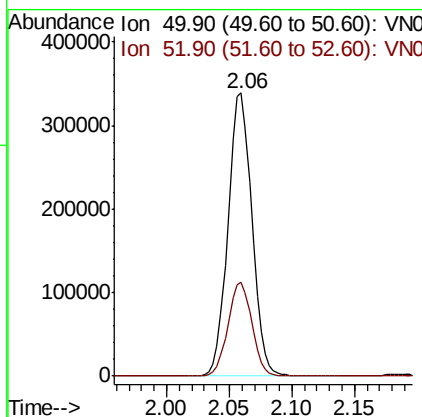
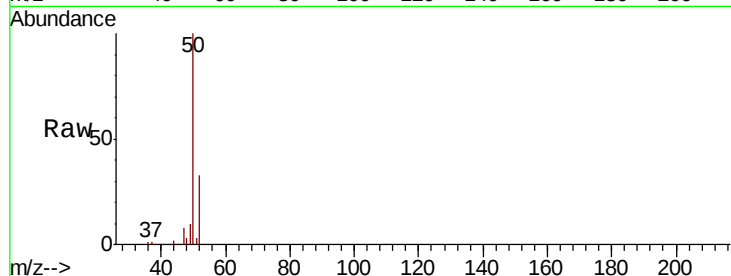
52 33.2 26.0 39.0

Manual Integrations

APPROVED

MMDadoda

8/15/2018 3:32:49 PM



#4

Vinyl Chloride

Concen: 46.62 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN050637.D

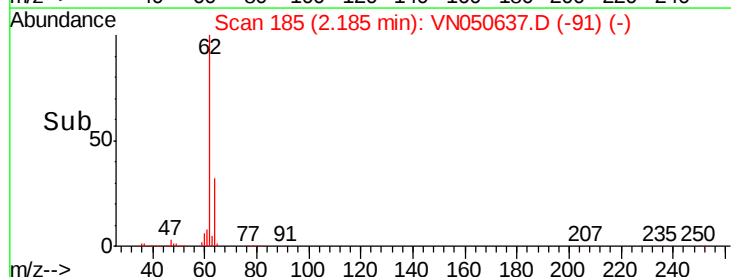
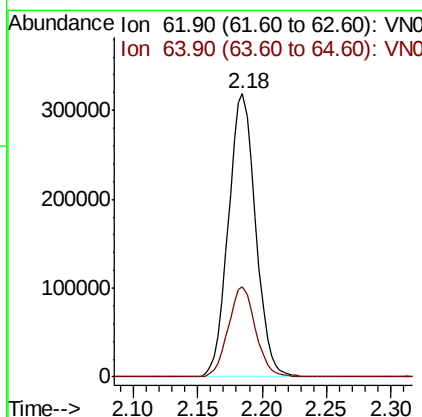
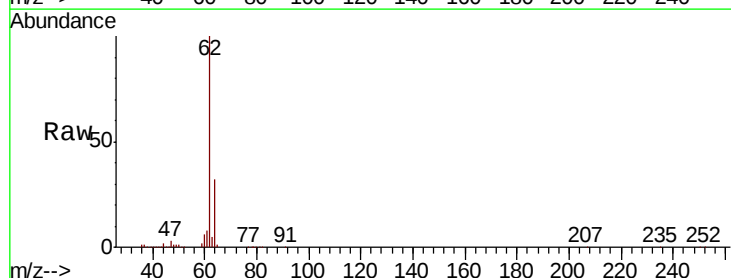
Acq: 15 Aug 2018 6:23

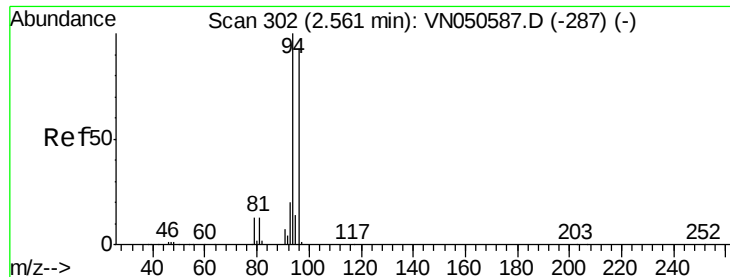
Tgt Ion: 62 Resp: 467282

Ion Ratio Lower Upper

62 100

64 31.8 25.2 37.8





#5

Bromomethane

Concen: 51.80 ug/l

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

ClientSampleId :

944-MW-05(17)MSD

Tot Ion: 94 Resp: 278642

Ion Ratio Lower Upper

94 100

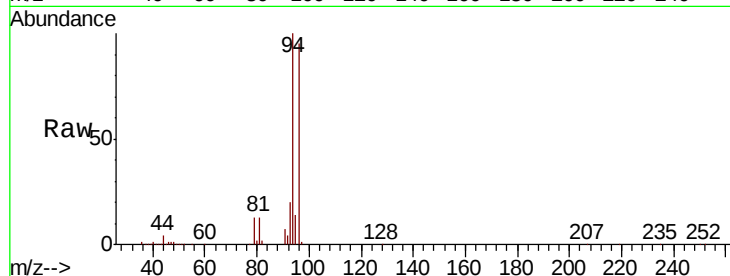
96 94.7 74.0 111.0

Manual Integrations

APPROVED

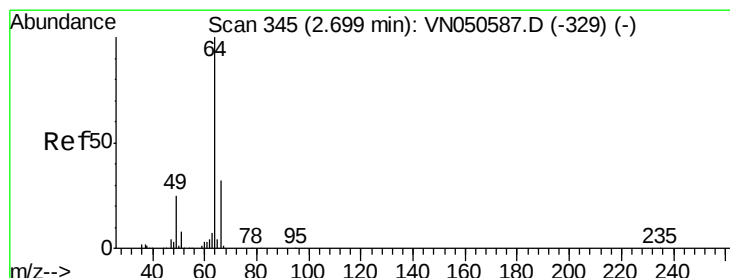
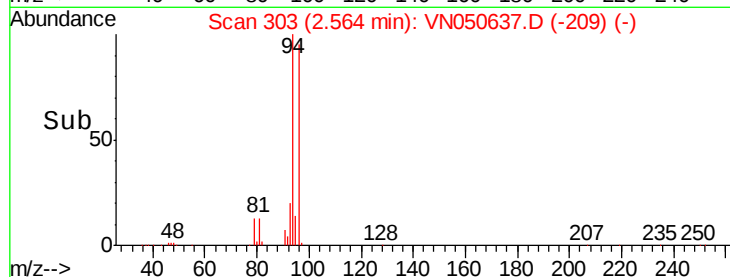
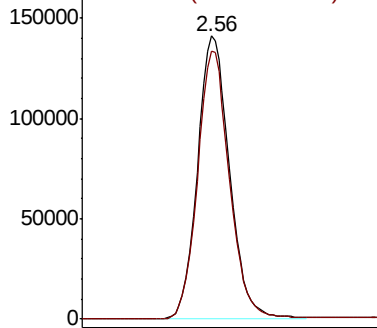
MMDadoda

8/15/2018 3:32:49 PM



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



#6

Chloroethane

Concen: 50.20 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050637.D

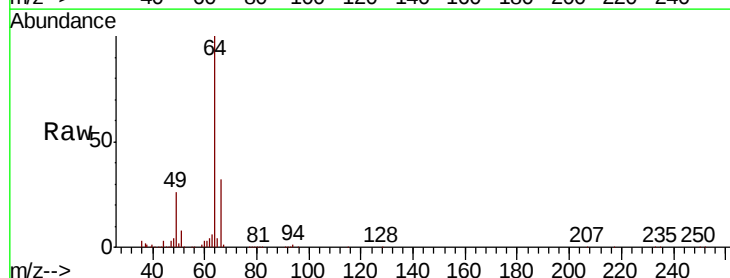
Acq: 15 Aug 2018 6:23

Tgt Ion: 64 Resp: 279574

Ion Ratio Lower Upper

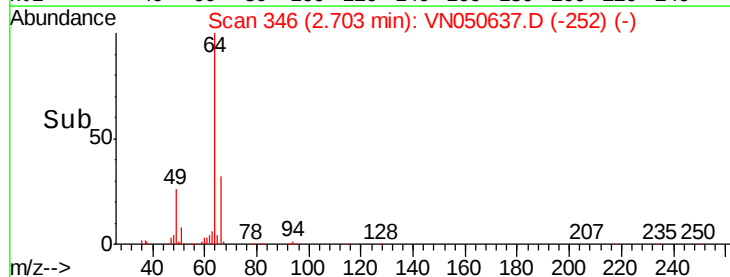
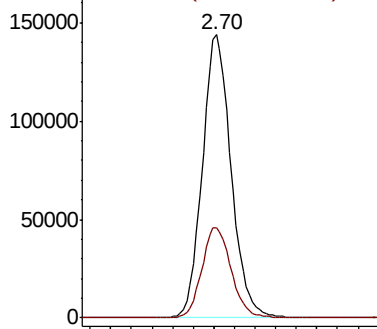
64 100

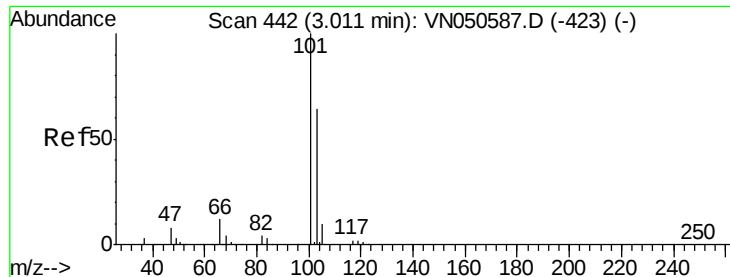
66 32.0 25.7 38.5



Abundance Ion 63.90 (63.60 to 64.60): VNO

Ion 65.90 (65.60 to 66.60): VNO





#7

Trichlorofluoromethane

Concen: 45.96 ug/l

RT: 3.01 min Scan# 443

Delta R.T. 0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

ClientSampleId :

944-MW-05(17)MSD

Tot Ion:101 Resp: 604438

Ion Ratio Lower Upper

101 100

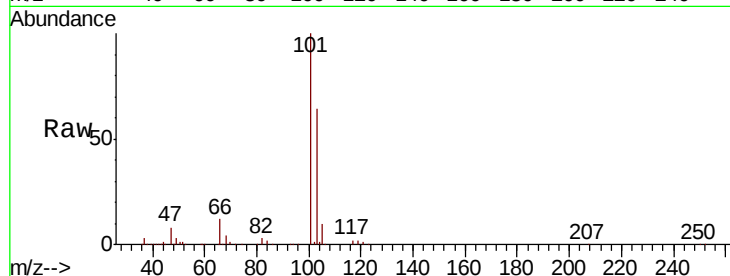
103 63.7 51.4 77.0

Manual Integrations

APPROVED

MMDadoda

8/15/2018 3:32:49 PM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.01

250000

200000

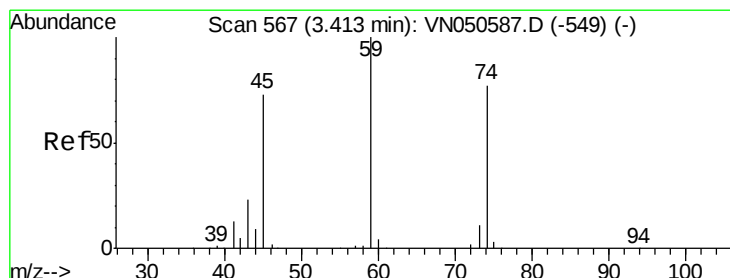
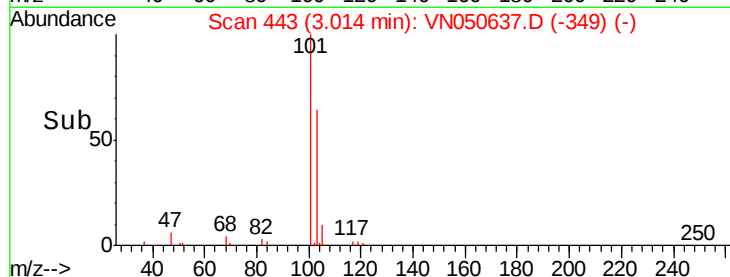
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 49.65 ug/l

RT: 3.41 min Scan# 567

Delta R.T. -0.00 min

Lab File: VN050637.D

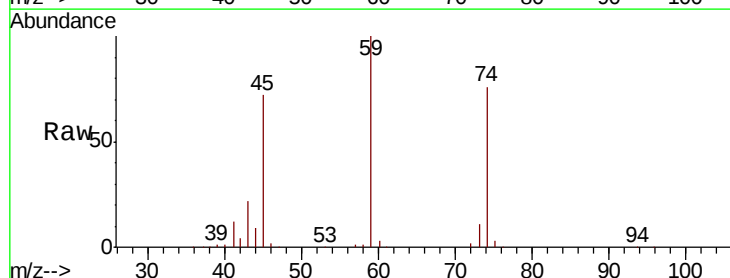
Acq: 15 Aug 2018 6:23

Tgt Ion: 74 Resp: 217193

Ion Ratio Lower Upper

74 100

45 94.4 48.0 144.2



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.41

100000

80000

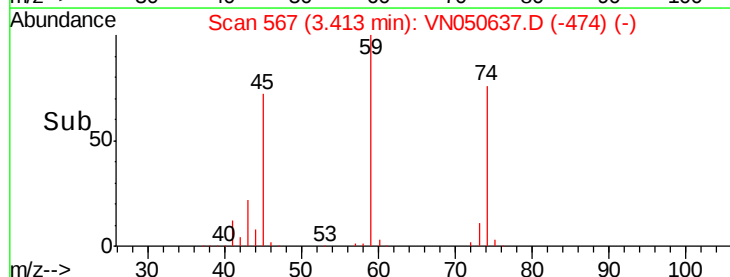
60000

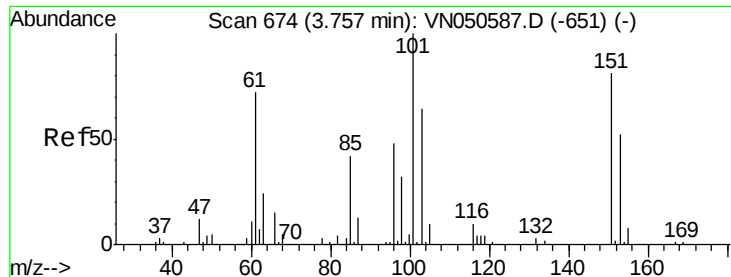
40000

20000

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 45.13 ug/l

RT: 3.76 min Scan# 674

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

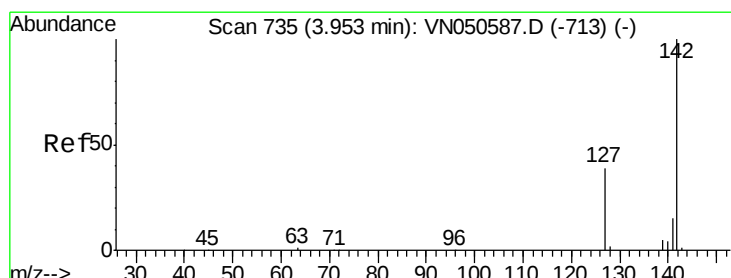
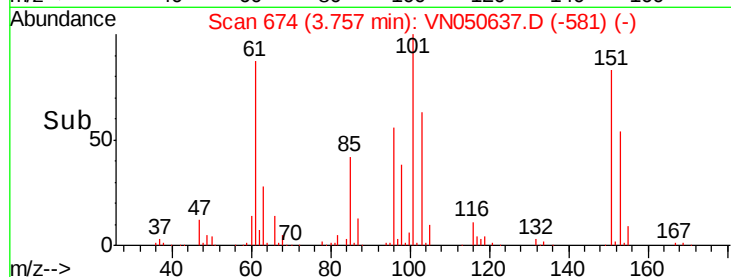
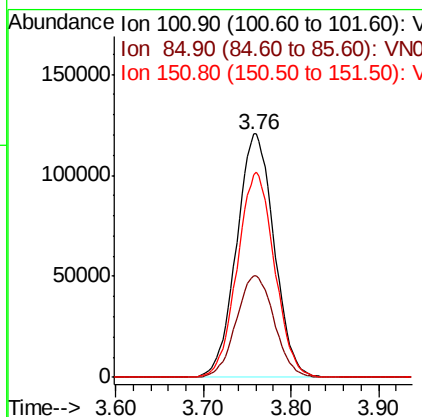
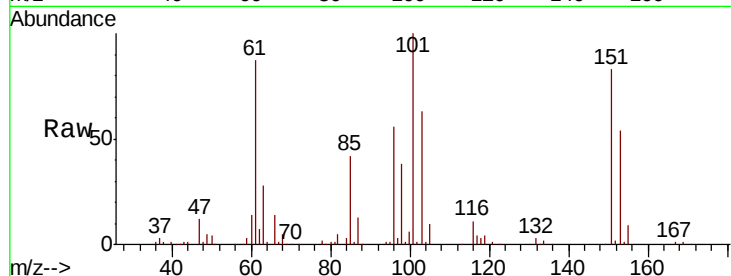
ClientSampleId :

944-MW-05(17)MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 101   | Resp: | 358942 |
| Ion Ratio | Lower | Upper |        |
| 101       | 100   |       |        |
| 85        | 42.1  | 33.4  | 50.0   |
| 151       | 83.3  | 66.6  | 100.0  |

Manual Integrations  
APPROVED

MMDadoda  
8/15/2018 3:32:49 PM



#10

Methyl Iodide

Concen: 51.32 ug/l

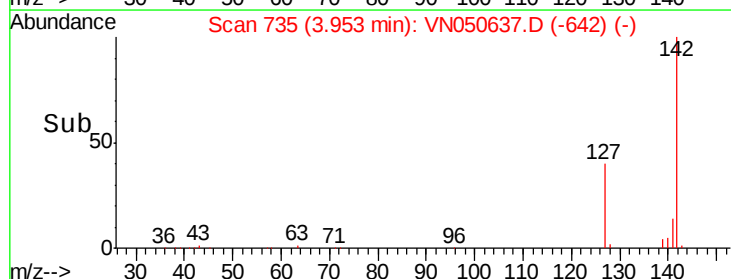
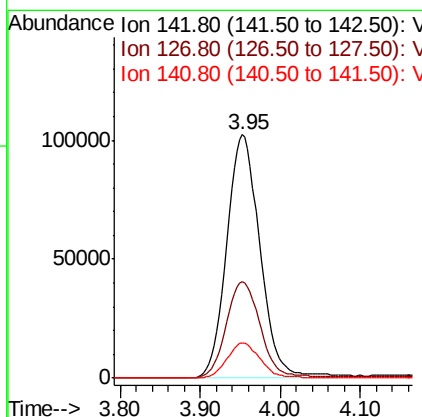
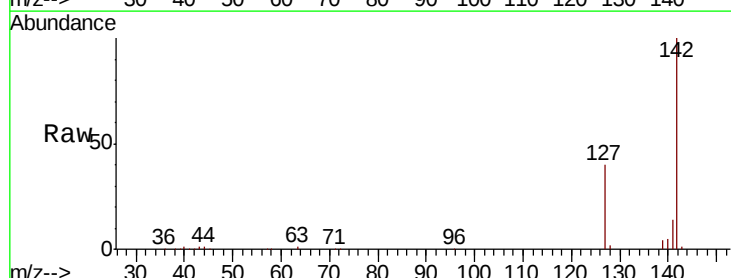
RT: 3.95 min Scan# 735

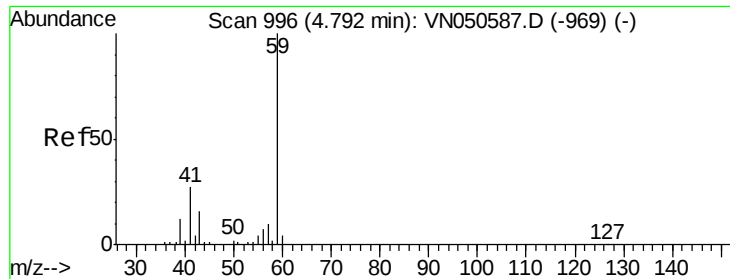
Delta R.T. 0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 291333 |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 127       | 40.7  | 32.6  | 49.0   |
| 141       | 14.1  | 11.5  | 17.3   |





#11

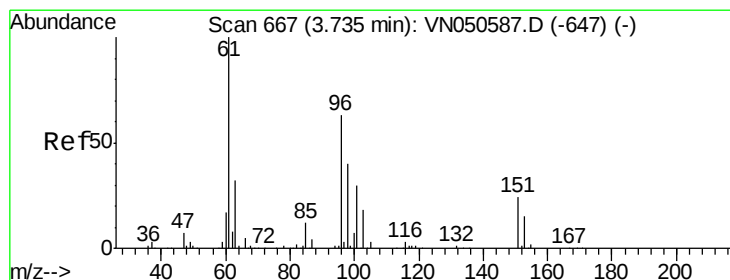
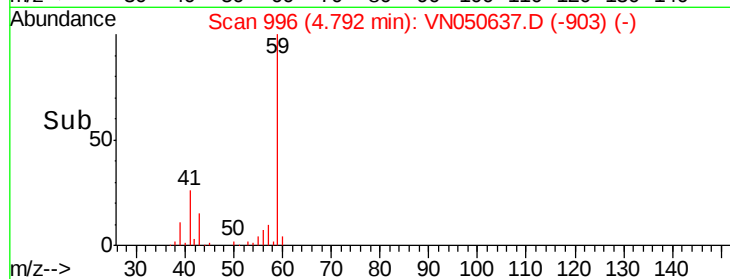
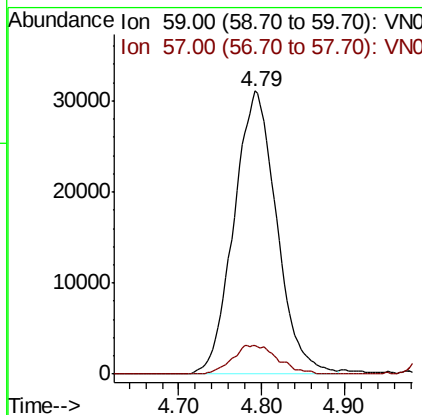
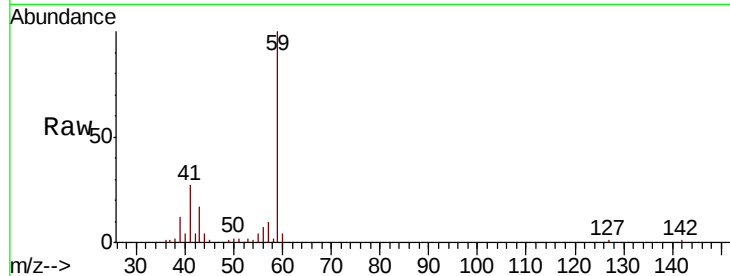
Tert butyl alcohol  
Concen: 241.63 ug/l  
RT: 4.79 min Scan# 996  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
944-MW-05(17)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 59      | 100   |       |       |
| 57      | 0.0   | 8.4   | 12.6# |

Manual Integrations  
APPROVED

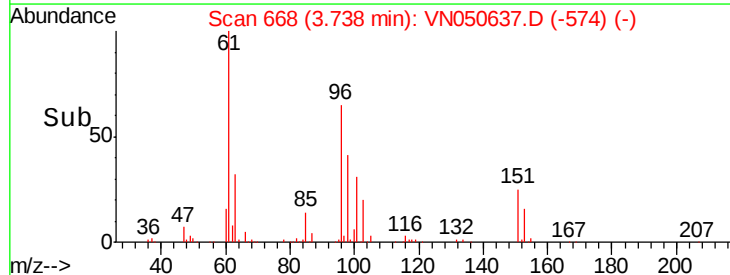
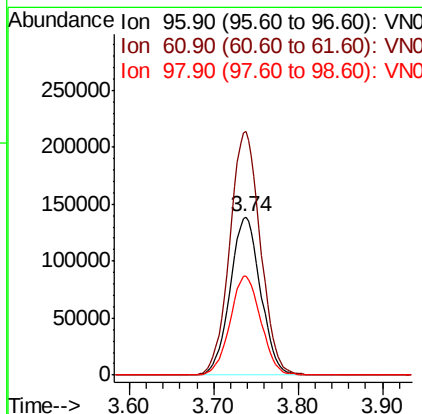
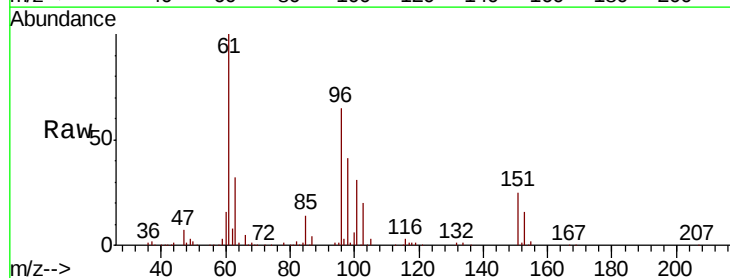
MMDadoda  
8/15/2018 3:32:49 PM

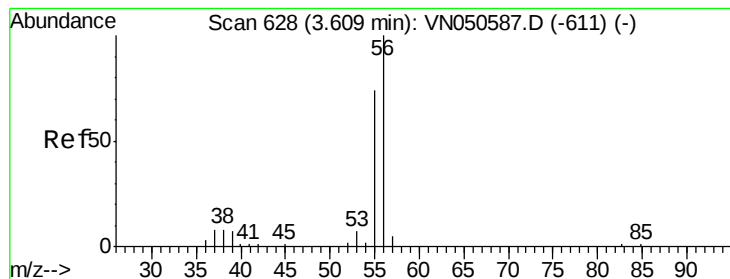


#12

1,1-Dichloroethene  
Concen: 48.06 ug/l  
RT: 3.74 min Scan# 668  
Delta R.T. 0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 153.6 | 126.9 | 190.3 |
| 98      | 62.3  | 51.1  | 76.7  |





#13

Acrolein

Concen: 216.87 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

ClientSampleId :

944-MW-05(17)MSD

Tot Ion: 56 Resp: 38294

Ion Ratio Lower Upper

56 100

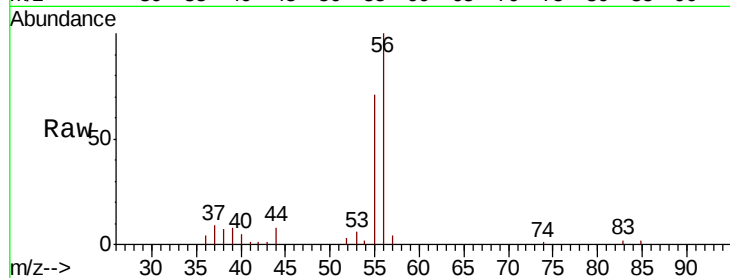
55 71.9 56.3 84.5

Manual Integrations

APPROVED

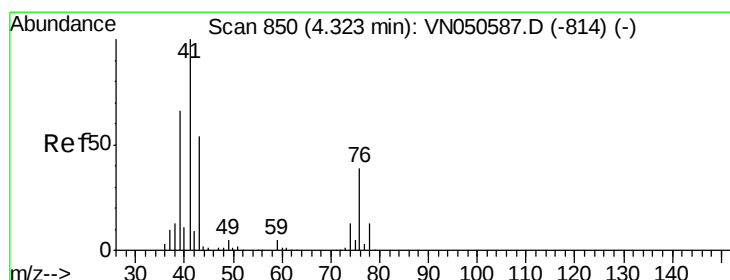
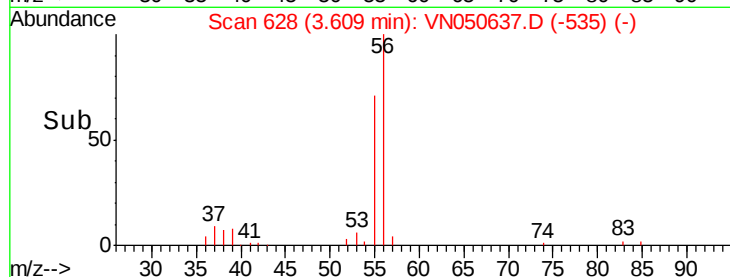
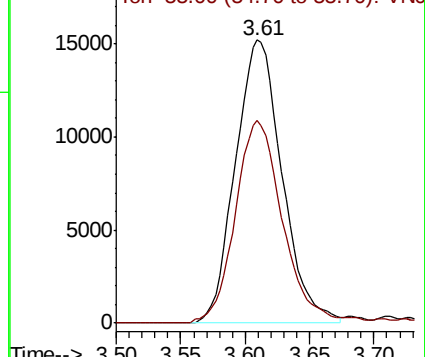
MMDadoda

8/15/2018 3:32:49 PM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 47.78 ug/l

RT: 4.33 min Scan# 851

Delta R.T. 0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

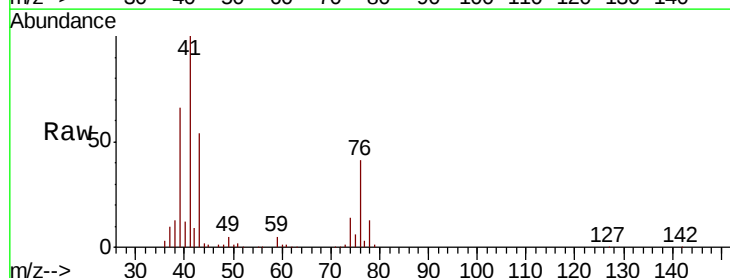
Tgt Ion: 41 Resp: 539697

Ion Ratio Lower Upper

41 100

39 63.5 51.4 77.0

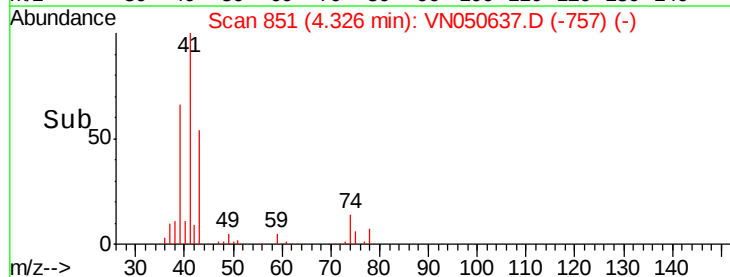
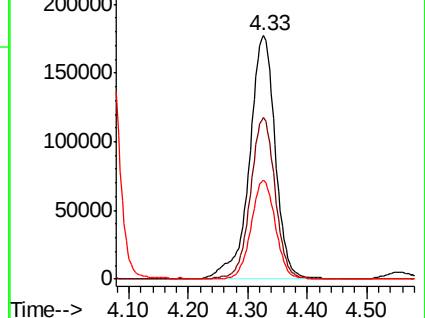
76 37.6 29.4 44.0

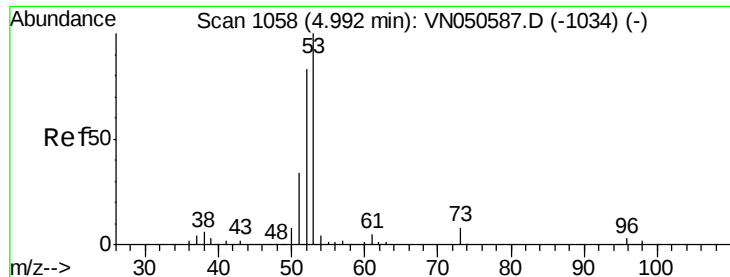


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





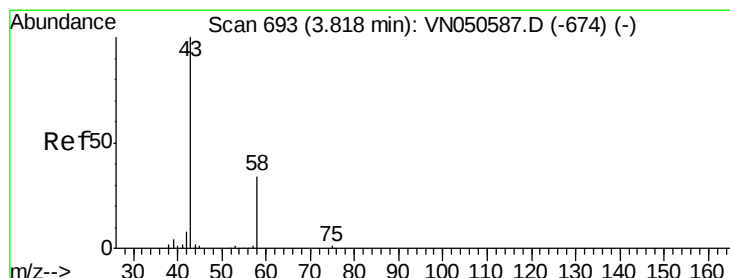
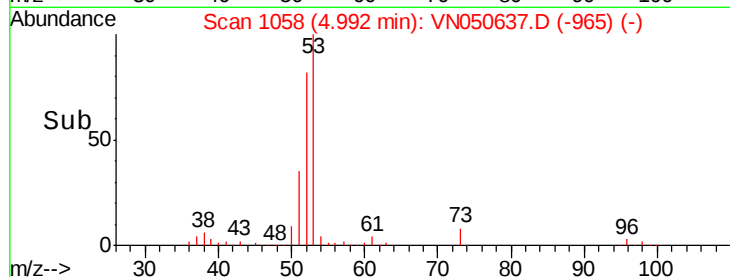
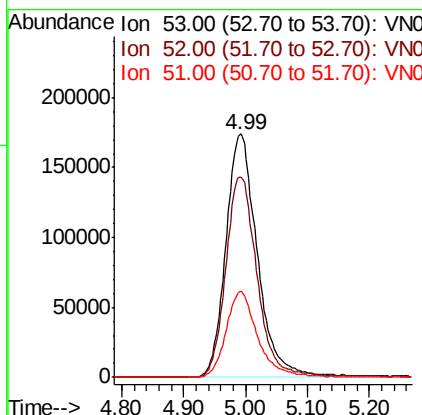
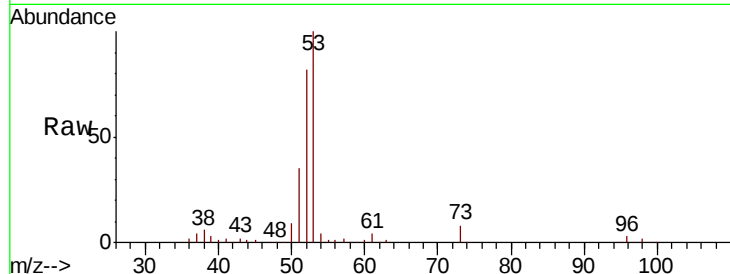
#15  
 Acrylonitrile  
 Concen: 243.02 ug/l  
 RT: 4.99 min Scan# 1058  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 944-MW-05(17)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 53      | 100   |       |       |
| 52      | 81.5  | 66.2  | 99.2  |
| 51      | 35.4  | 28.6  | 43.0  |

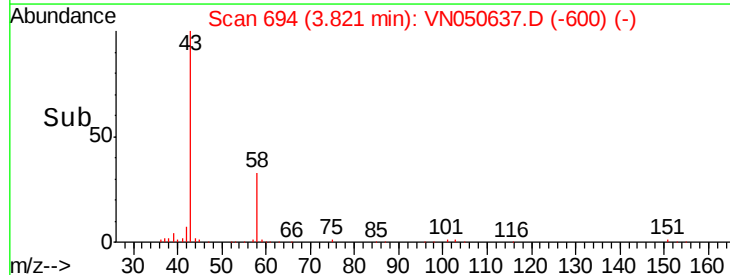
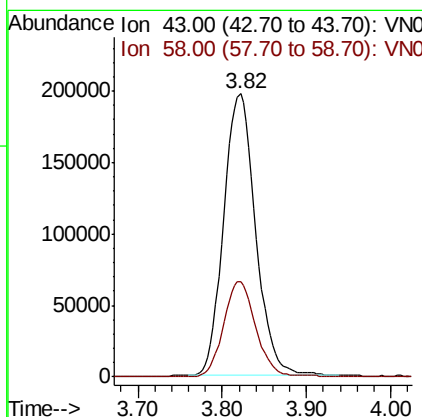
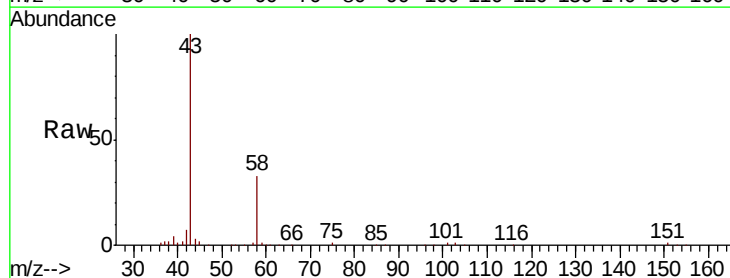
Manual Integrations  
 APPROVED

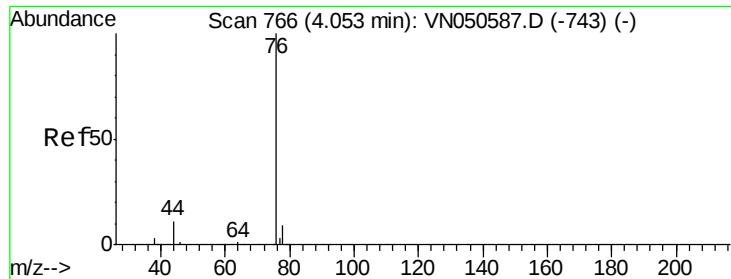
MMDadoda  
 8/15/2018 3:32:49 PM



#16  
 Acetone  
 Concen: 246.22 ug/l  
 RT: 3.82 min Scan# 694  
 Delta R.T. 0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 33.5  | 27.1  | 40.7  |





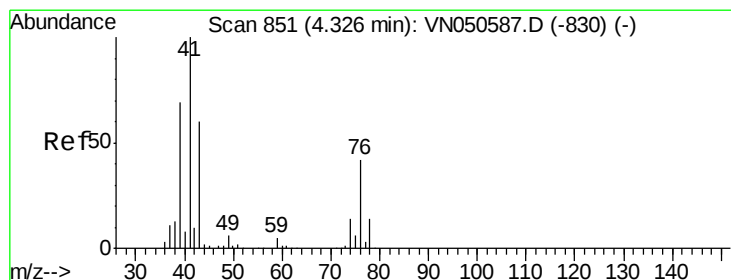
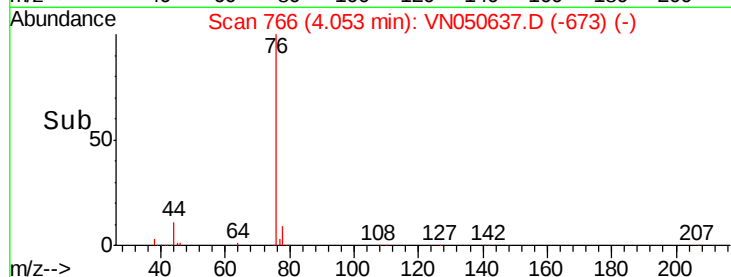
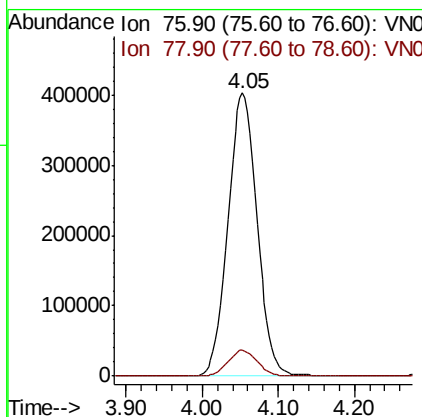
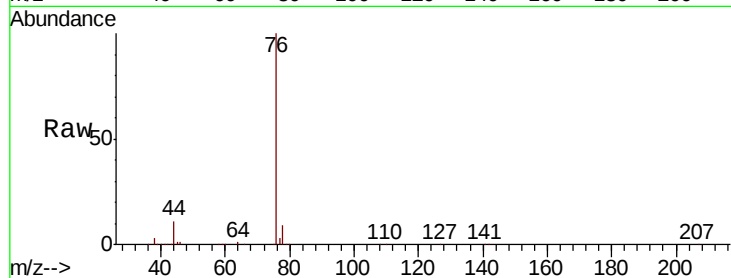
#17  
Carbon Disulfide  
Concen: 46.94 ug/l  
RT: 4.05 min Scan# 766  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
944-MW-05(17)MSD

Tot Ion: 76 Resp: 1072710  
Ion Ratio Lower Upper  
76 100  
78 9.2 7.3 10.9

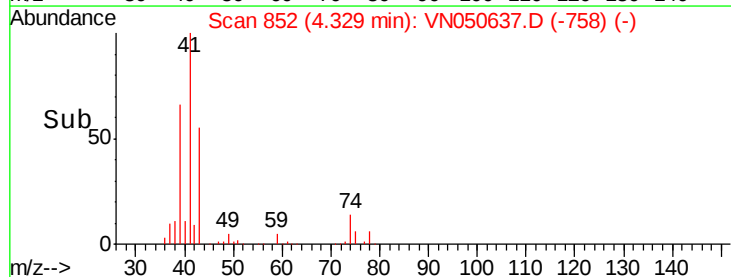
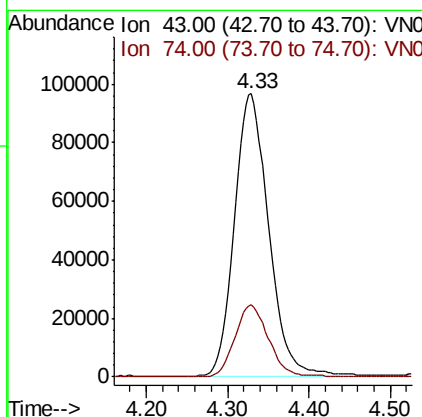
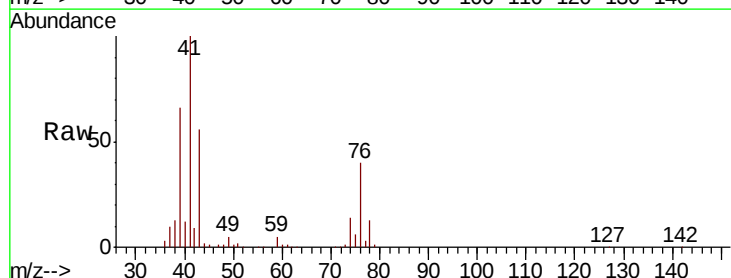
Manual Integrations  
APPROVED

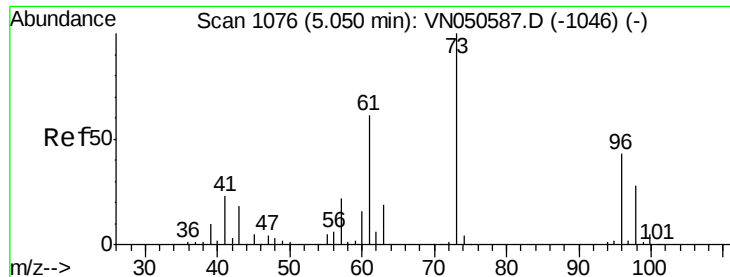
MMDadoda  
8/15/2018 3:32:49 PM



#18  
Methyl Acetate  
Concen: 47.09 ug/l  
RT: 4.33 min Scan# 852  
Delta R.T. 0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

Tgt Ion: 43 Resp: 279330  
Ion Ratio Lower Upper  
43 100  
74 25.1 19.7 29.5





#19

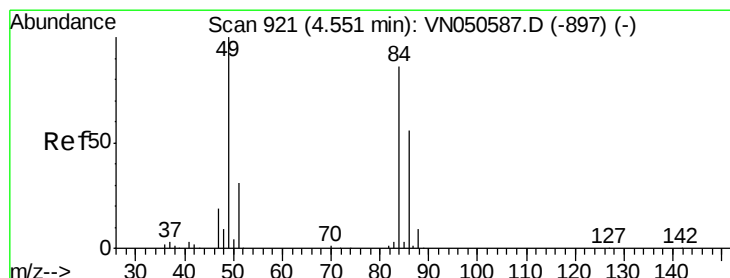
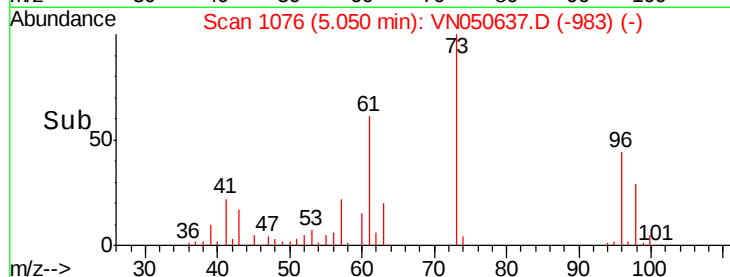
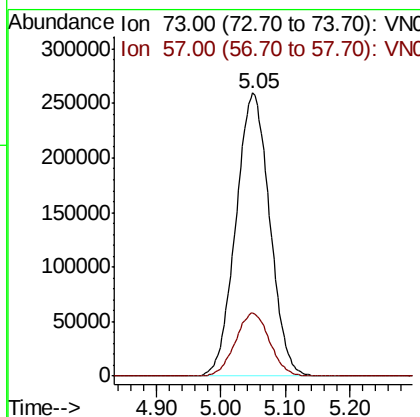
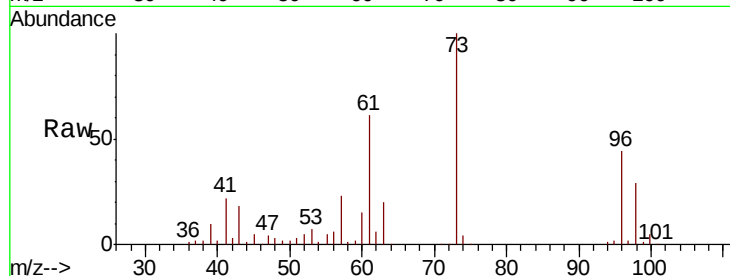
Methyl tert-butyl Ether  
 Concen: 51.32 ug/l  
 RT: 5.05 min Scan# 1076  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 944-MW-05(17)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 73      | 100   |       |       |
| 57      | 22.5  | 17.9  | 26.9  |

Manual Integrations  
 APPROVED

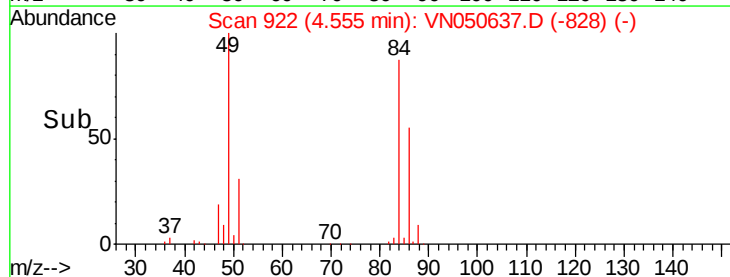
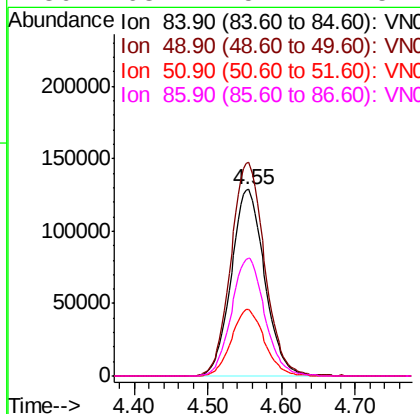
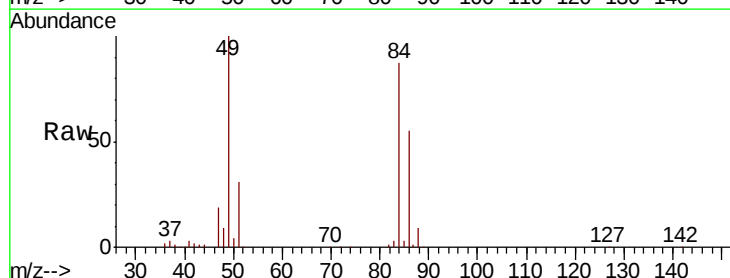
MMDadoda  
 8/15/2018 3:32:49 PM

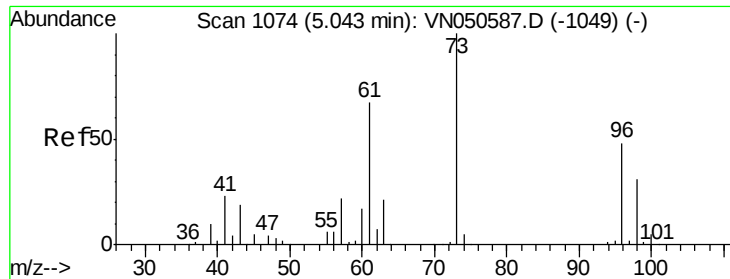


#20

Methylene Chloride  
 Concen: 50.73 ug/l  
 RT: 4.55 min Scan# 922  
 Delta R.T. 0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 114.4 | 92.6  | 138.8 |
| 51      | 35.7  | 28.6  | 43.0  |
| 86      | 63.2  | 52.2  | 78.2  |





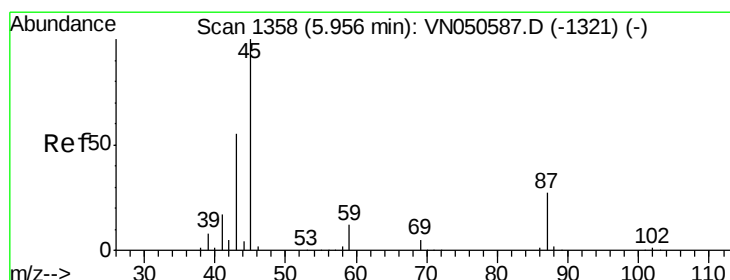
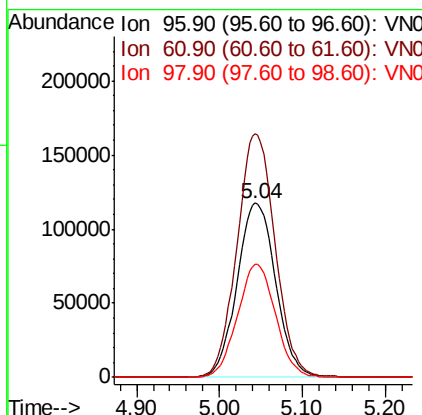
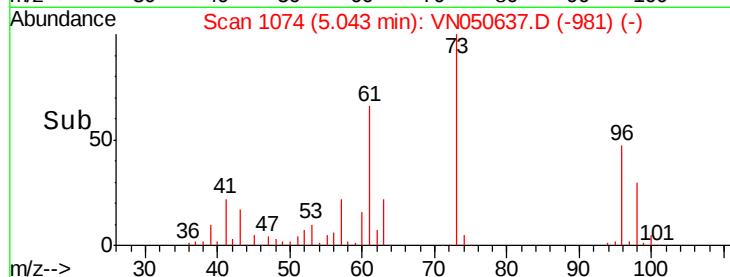
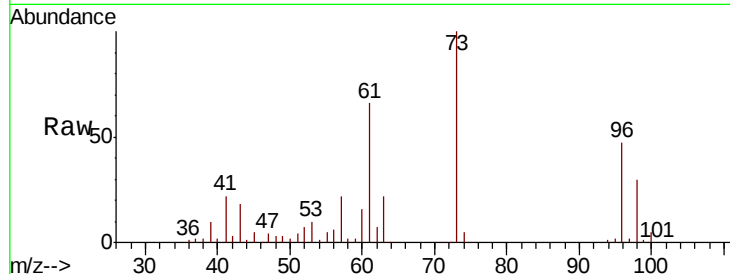
#21  
trans-1,2-Dichloroethene  
Concen: 48.32 ug/l  
RT: 5.04 min Scan# 1074  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
944-MW-05(17)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 139.6 | 111.2 | 166.8 |
| 98      | 64.5  | 51.6  | 77.4  |

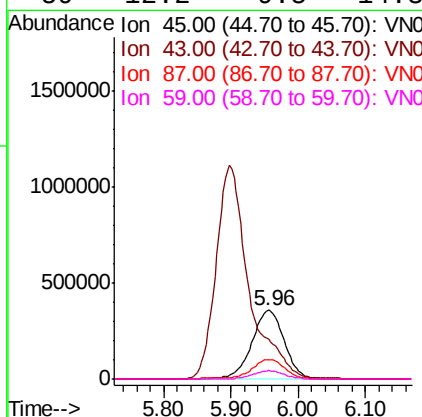
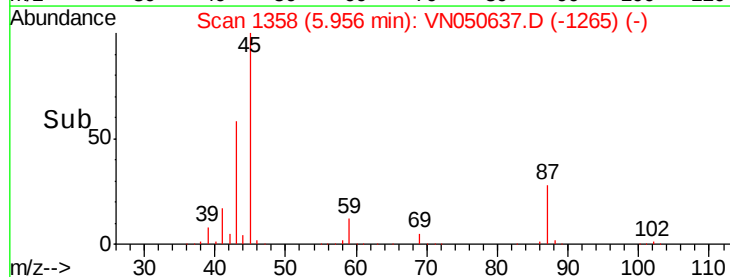
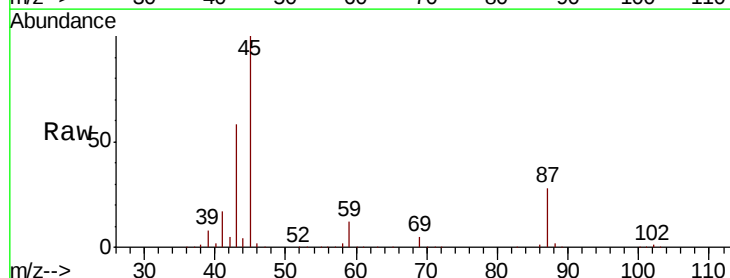
Manual Integrations  
APPROVED

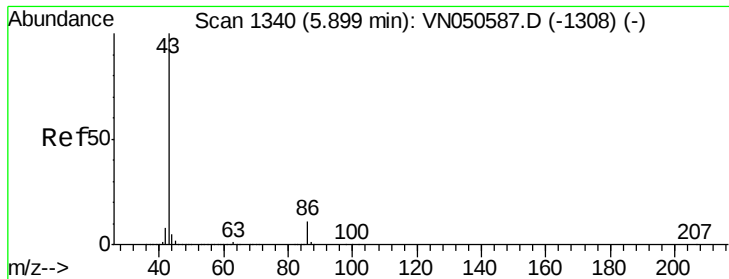
MMDadoda  
8/15/2018 3:32:49 PM



#22  
Diisopropyl ether  
Concen: 51.72 ug/l  
RT: 5.96 min Scan# 1358  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 43      | 56.8  | 44.5  | 66.7  |
| 87      | 28.3  | 22.2  | 33.2  |
| 59      | 12.2  | 9.5   | 14.3  |





#23

Vinyl Acetate

Concen: 250.07 ug/l

RT: 5.90 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

ClientSampleId :

944-MW-05(17)MSD

Tot Ion: 43 Resp: 3788589

Ion Ratio Lower Upper

43 100

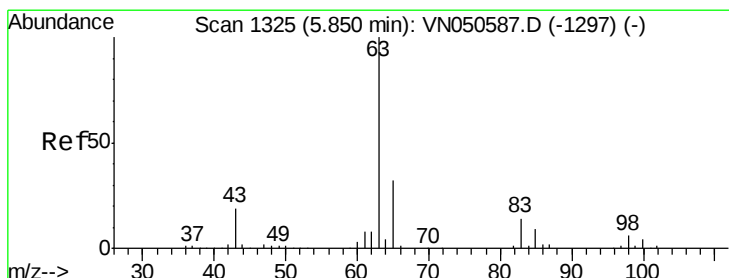
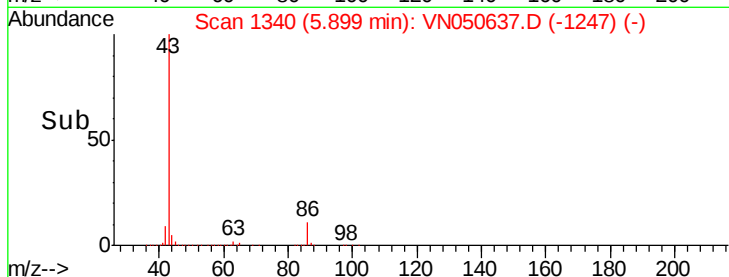
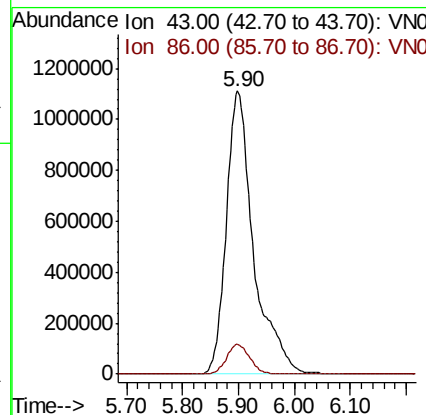
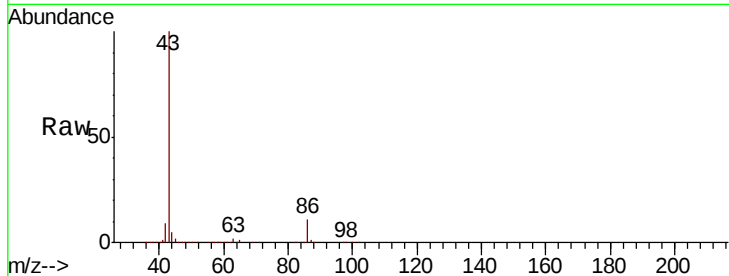
86 10.6 8.4 12.6

Manual Integrations

APPROVED

MMDadoda

8/15/2018 3:32:49 PM



#24

1,1-Dichloroethane

Concen: 47.70 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

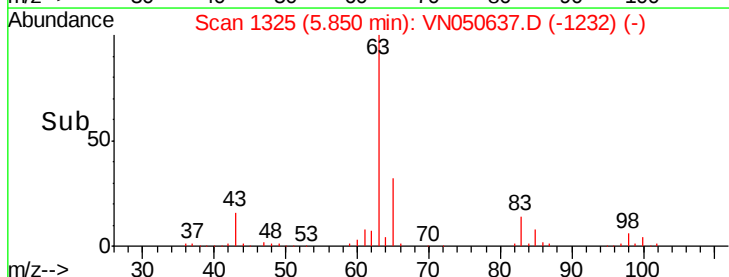
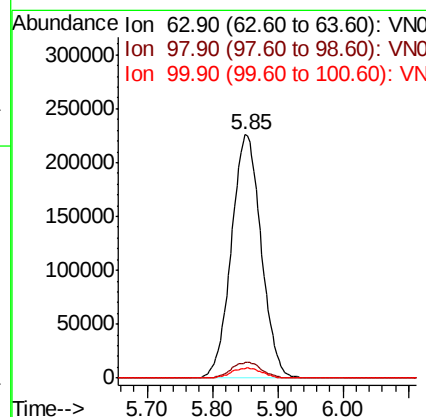
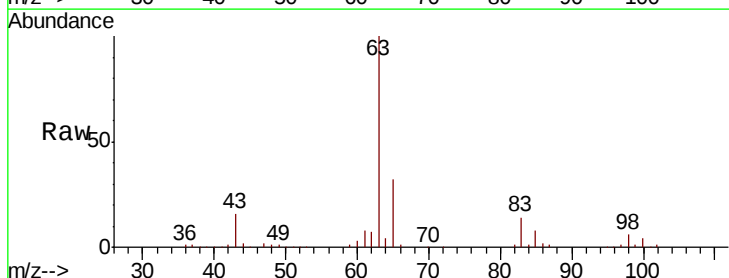
Tgt Ion: 63 Resp: 714851

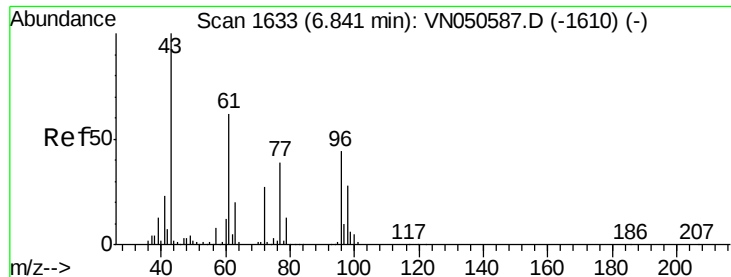
Ion Ratio Lower Upper

63 100

98 6.5 3.2 9.6

100 4.1 2.1 6.5





#25

2-Butanone

Concen: 238.65 ug/l

RT: 6.84 min Scan# 1633

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

ClientSampleId :

944-MW-05(17)MSD

Tot Ion: 43 Resp: 825459

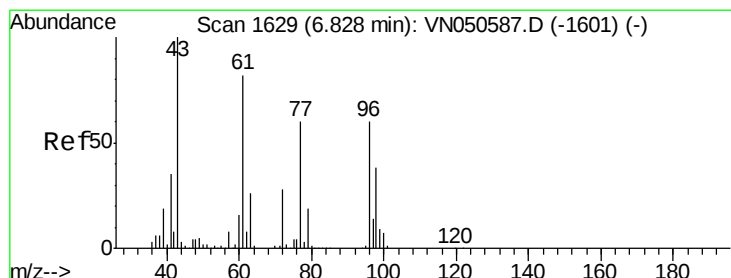
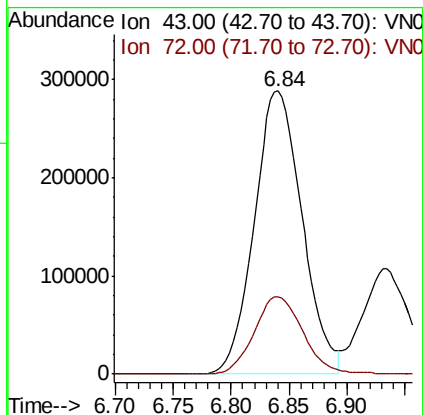
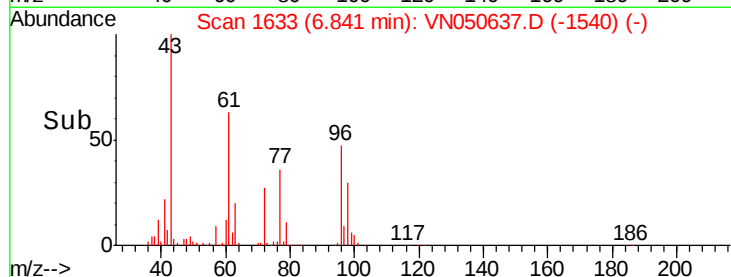
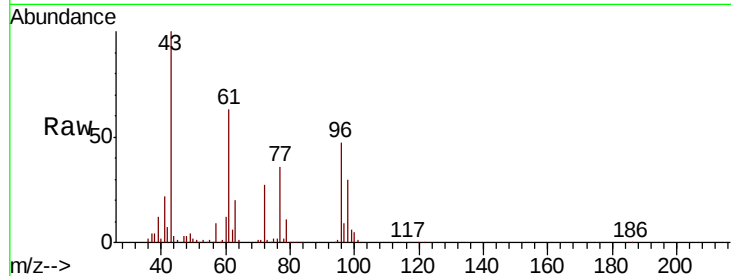
Ion Ratio Lower Upper

43 100

72 27.4 21.8 32.6

Manual Integrations  
APPROVED

MMDadoda  
8/15/2018 3:32:49 PM



#26

2,2-Dichloropropane

Concen: 40.07 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VN050637.D

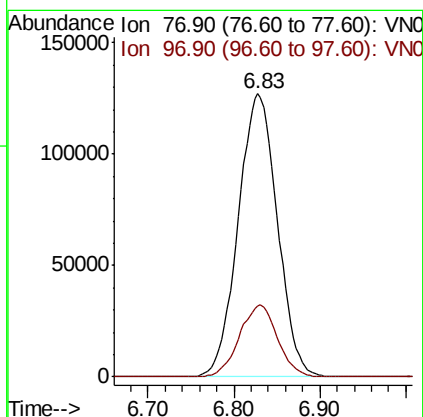
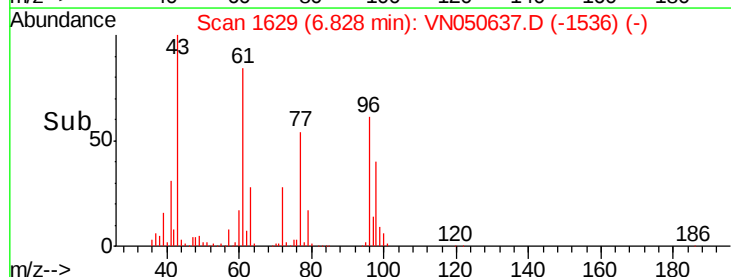
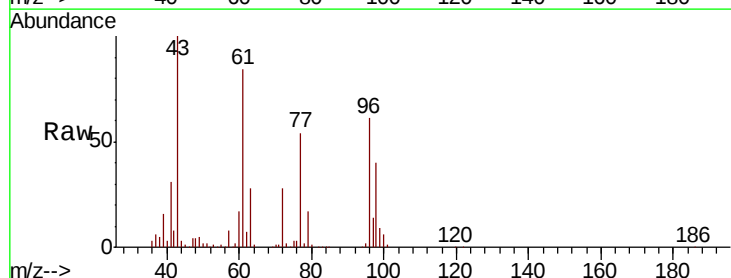
Acq: 15 Aug 2018 6:23

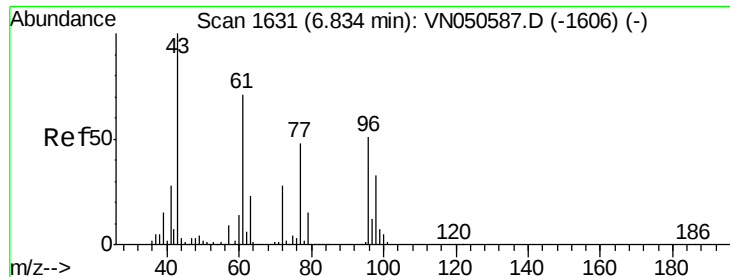
Tgt Ion: 77 Resp: 401905

Ion Ratio Lower Upper

77 100

97 24.7 12.2 36.4





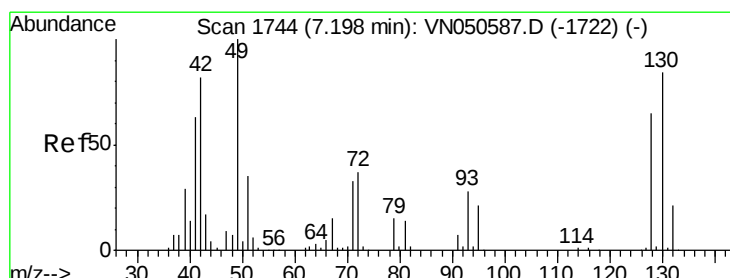
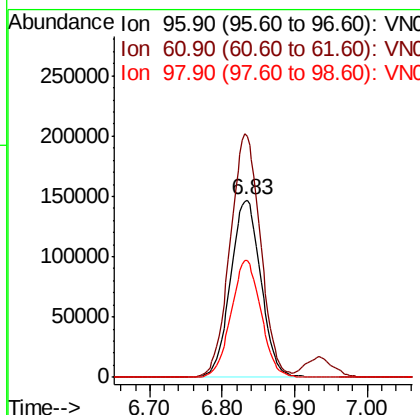
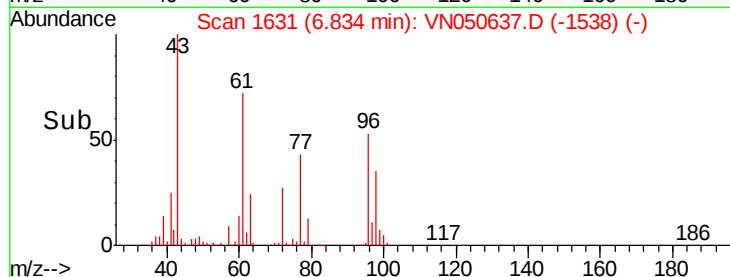
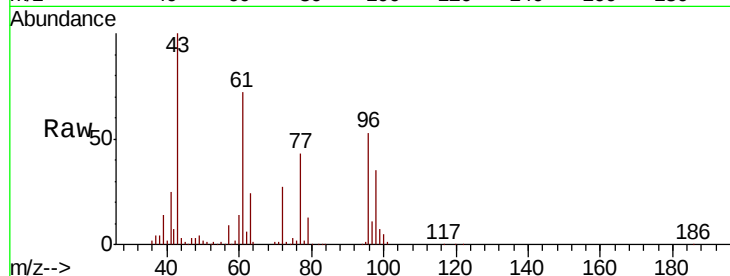
#27  
 cis-1,2-Dichloroethene  
 Concen: 48.88 ug/l  
 RT: 6.83 min Scan# 1631  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 944-MW-05(17)MSD

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 96      | 100   |      |       |       |
| 61      | 137.1 | 0.0  | 278.2 |       |
| 98      | 65.2  | 0.0  | 128.8 |       |

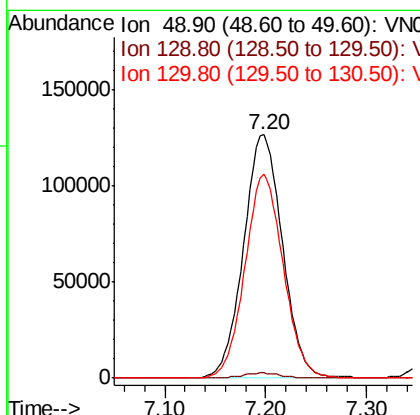
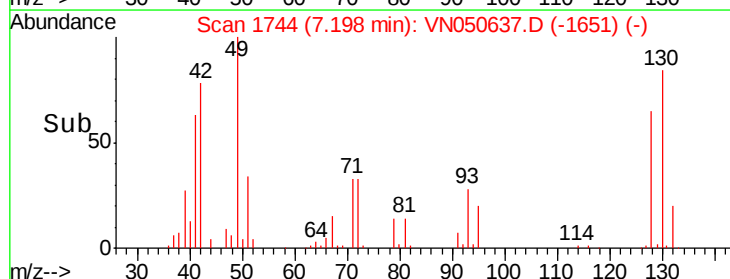
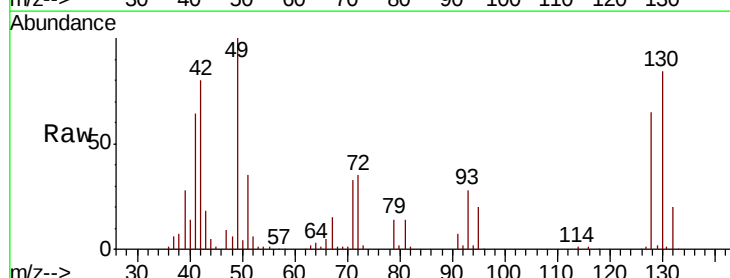
Manual Integrations  
 APPROVED

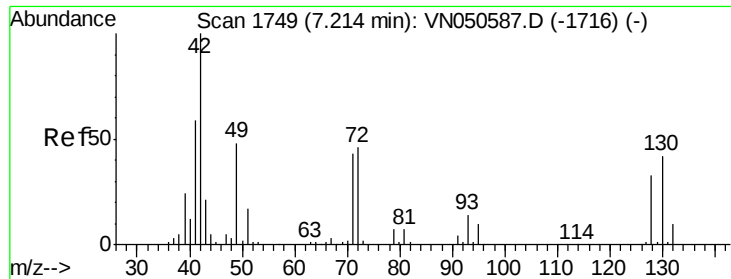
MMDadoda  
 8/15/2018 3:32:49 PM



#28  
 Bromochloromethane  
 Concen: 49.65 ug/l  
 RT: 7.20 min Scan# 1744  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 49      | 100   |      |       |       |
| 129     | 2.0   | 0.0  | 4.2   |       |
| 130     | 82.6  | 66.8 | 100.2 |       |





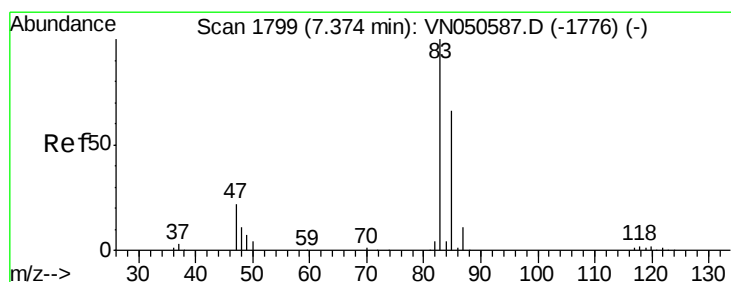
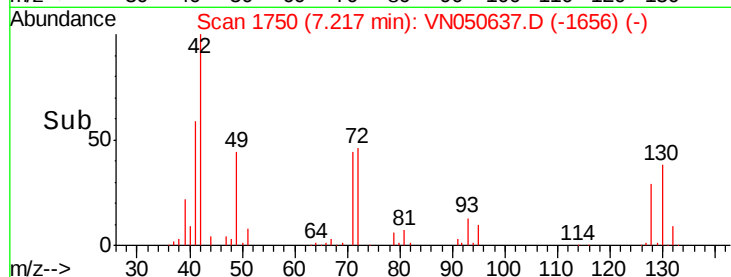
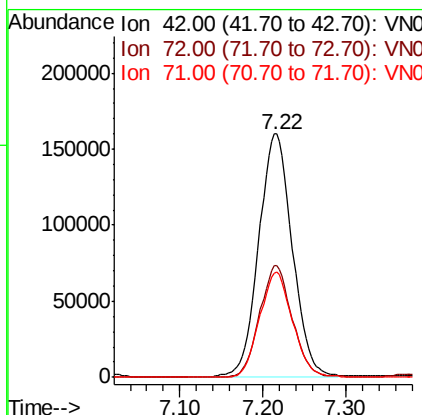
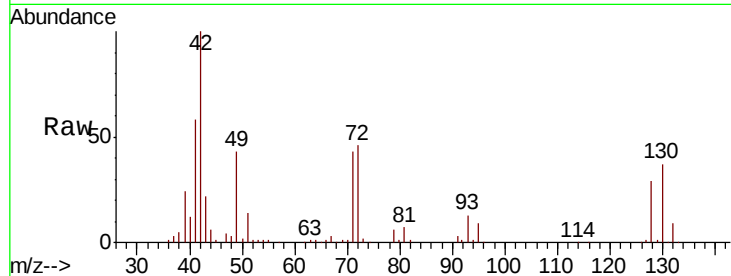
#29  
Tetrahydrofuran  
Concen: 249.66 ug/l  
RT: 7.22 min Scan# 1750  
Delta R.T. 0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
944-MW-05(17)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 44.2  | 35.8  | 53.6  |
| 71      | 42.6  | 33.4  | 50.0  |

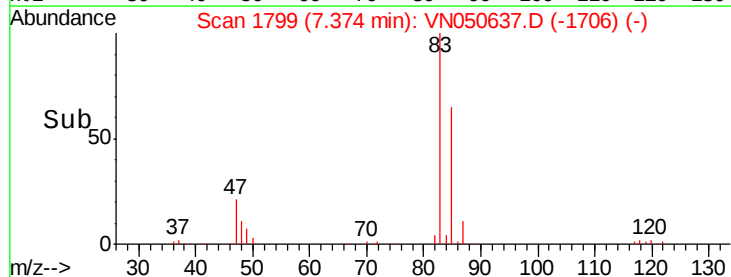
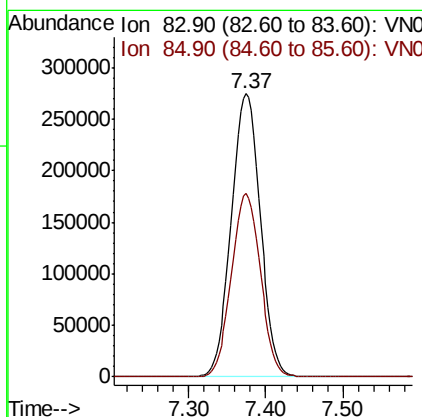
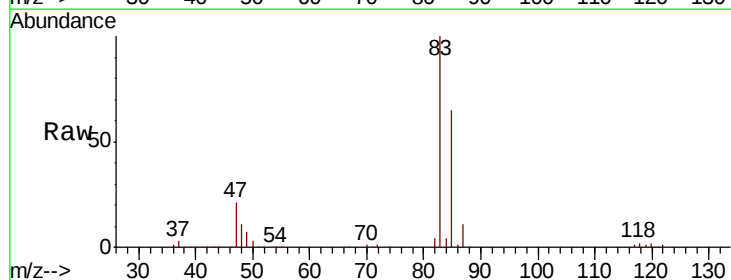
Manual Integrations  
APPROVED

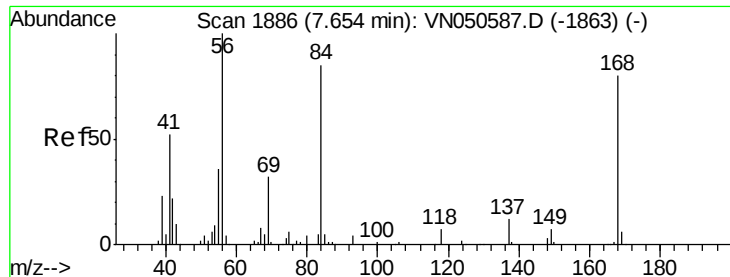
MMDadoda  
8/15/2018 3:32:49 PM



#30  
Chloroform  
Concen: 47.19 ug/l  
RT: 7.37 min Scan# 1799  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 64.6  | 52.5  | 78.7  |





#31

Cyclohexane

Concen: 48.63 ug/l

RT: 7.66 min Scan# 1887

Delta R.T. 0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

ClientSampleId :

944-MW-05(17)MSD

Tot Ion: 56 Resp: 622029

Ion Ratio Lower Upper

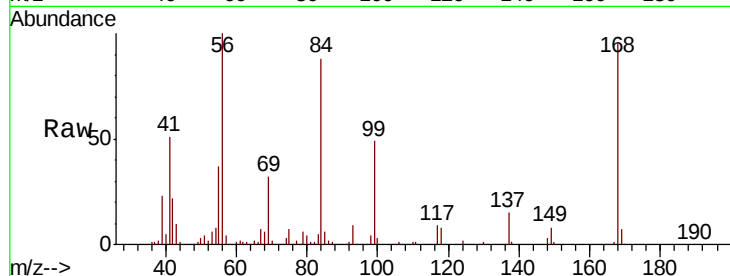
56 100

69 32.4 25.8 38.6

84 86.5 67.8 101.6

Manual Integrations  
APPROVED

MMDadoda  
8/15/2018 3:32:49 PM

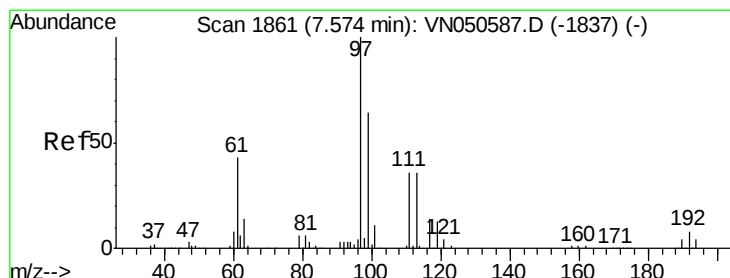
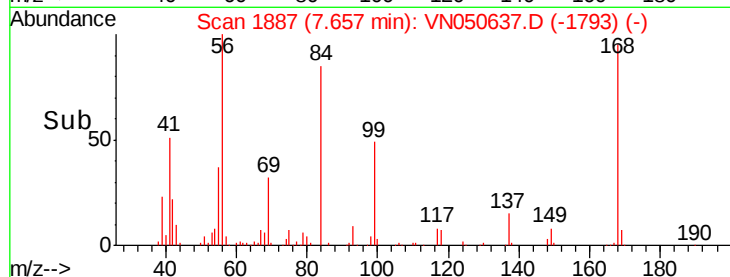
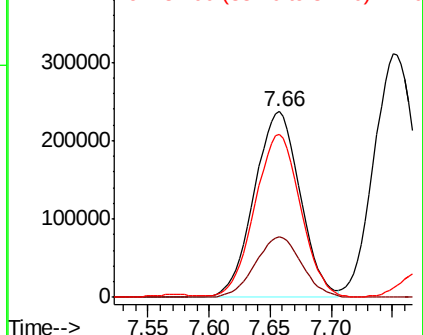


Abundance

Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO



#32

1,1,1-Trichloroethane

Concen: 47.49 ug/l

RT: 7.57 min Scan# 1861

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

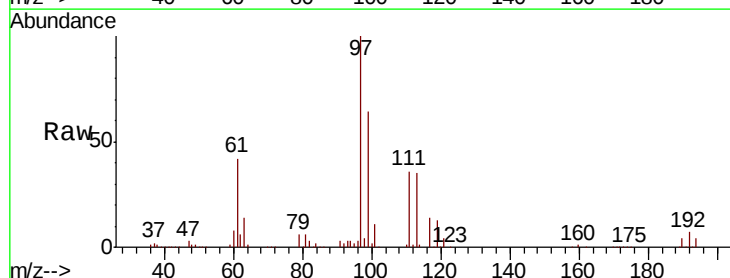
Tgt Ion: 97 Resp: 607046

Ion Ratio Lower Upper

97 100

99 64.0 51.1 76.7

61 43.2 34.8 52.2

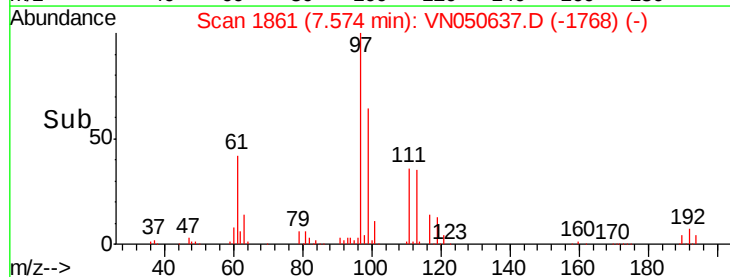
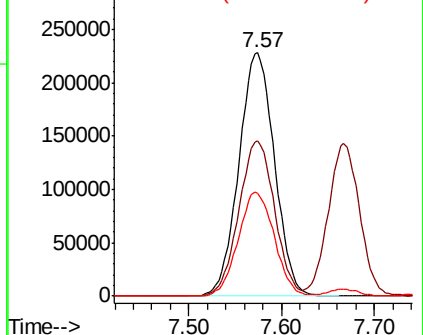


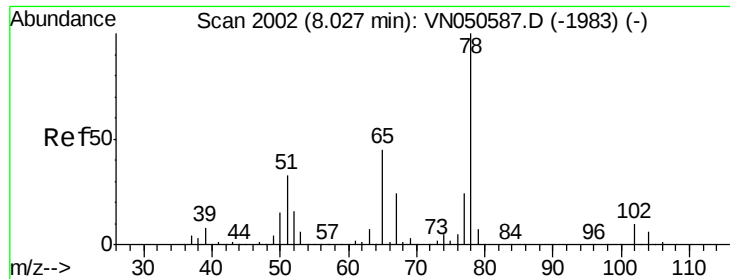
Abundance

Ion 96.90 (96.60 to 97.60): VNO

Ion 98.90 (98.60 to 99.60): VNO

Ion 60.90 (60.60 to 61.60): VNO





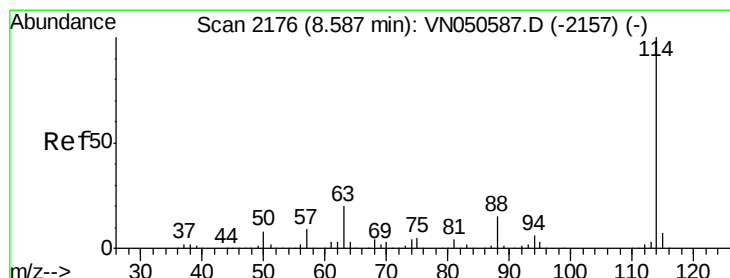
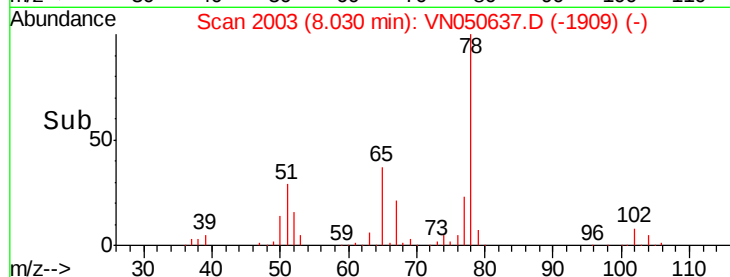
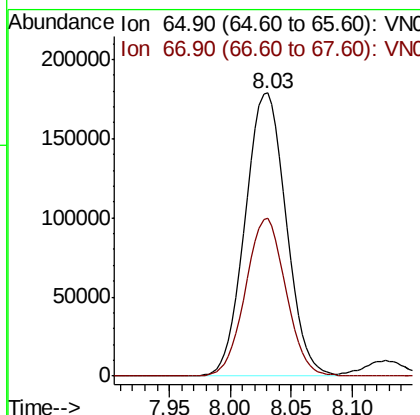
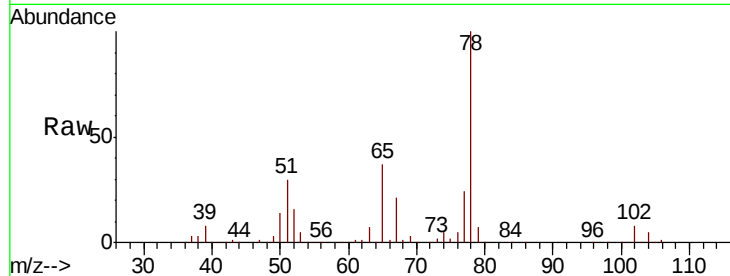
#33  
 1,2-Dichloroethane-d4  
 Concen: 49.29 ug/l  
 RT: 8.03 min Scan# 2003  
 Delta R.T. 0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 944-MW-05(17)MSD

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 65      | 100   |      |       |       |
| 67      | 55.0  | 0.0  | 109.8 |       |

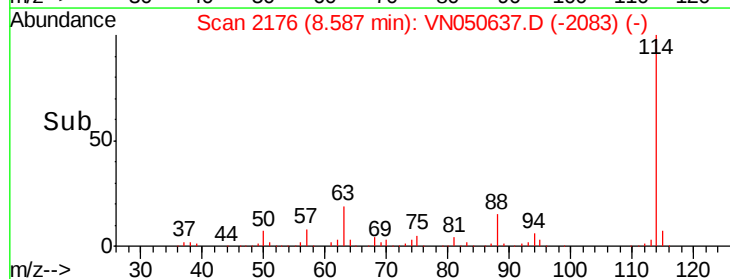
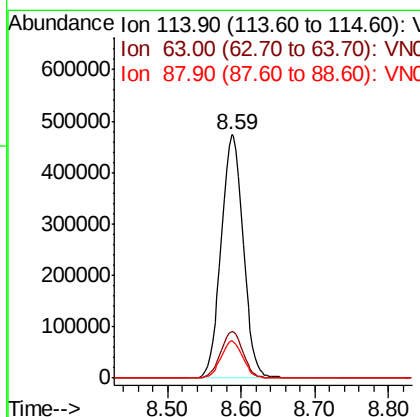
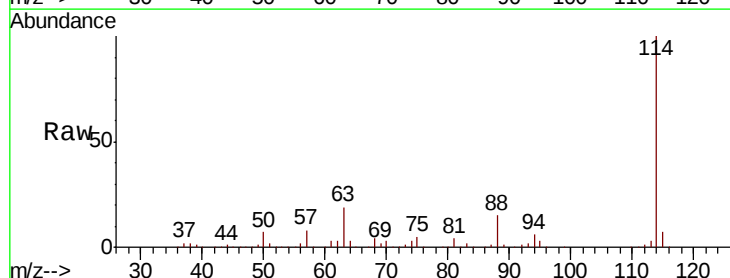
Manual Integrations  
 APPROVED

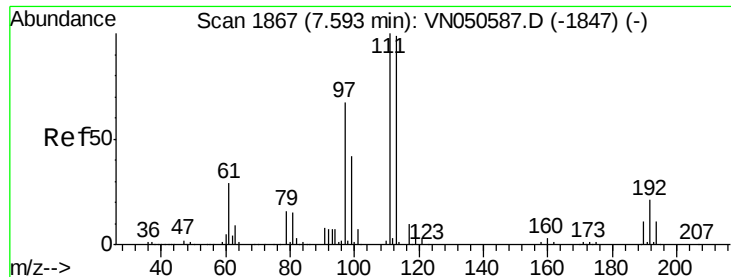
MMDadoda  
 8/15/2018 3:32:49 PM



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 8.59 min Scan# 2176  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 114     | 100   |      |       |       |
| 63      | 19.3  | 0.0  | 40.0  |       |
| 88      | 15.2  | 0.0  | 30.8  |       |





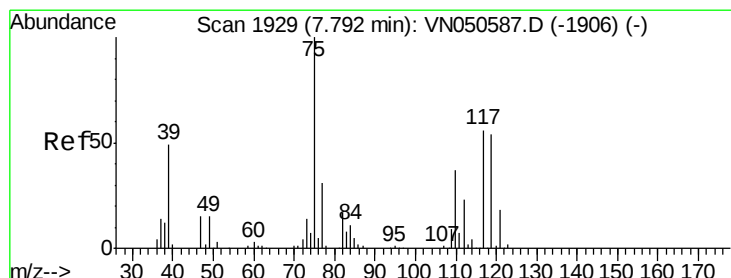
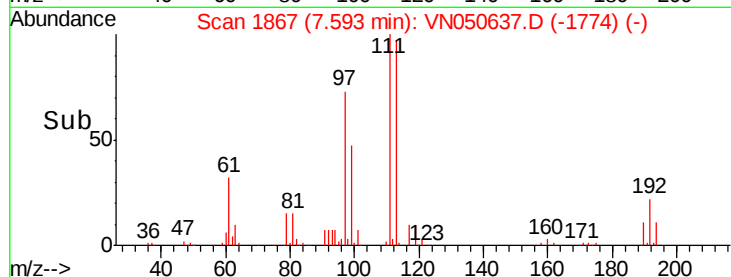
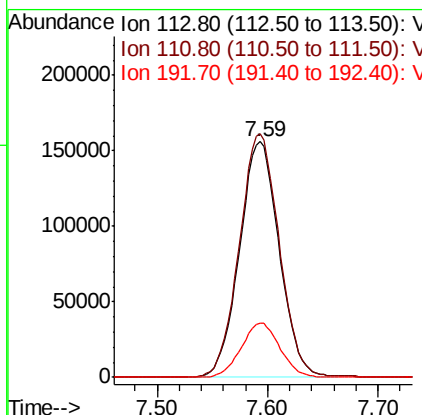
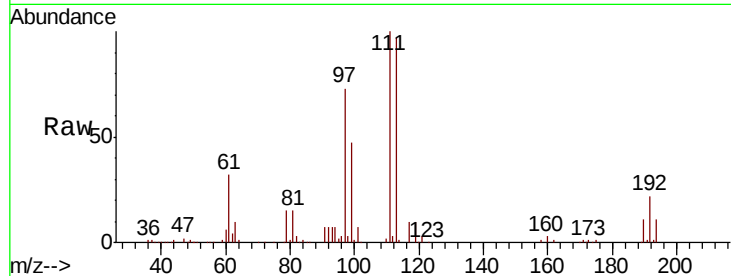
#35  
 Dibromofluoromethane  
 Concen: 49.32 ug/l  
 RT: 7.59 min Scan# 1867  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 944-MW-05(17)MSD

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 113     | 100   |      |       |       |
| 111     | 104.0 | 81.0 | 121.6 |       |
| 192     | 22.5  | 17.6 | 26.4  |       |

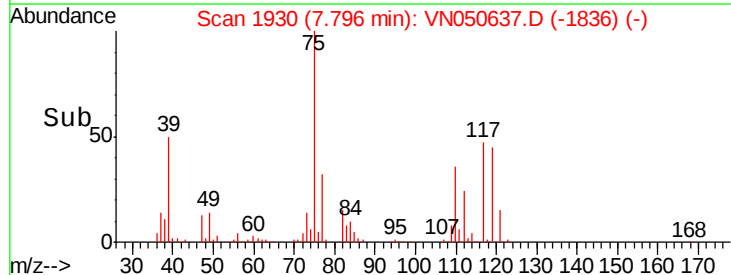
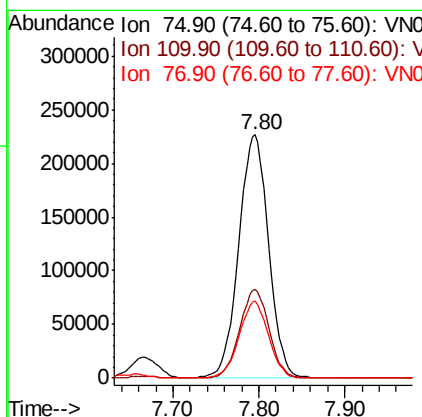
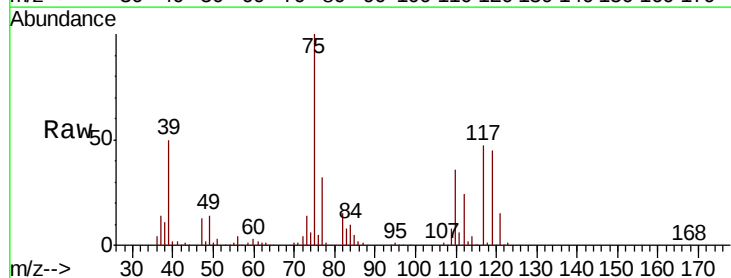
Manual Integrations  
 APPROVED

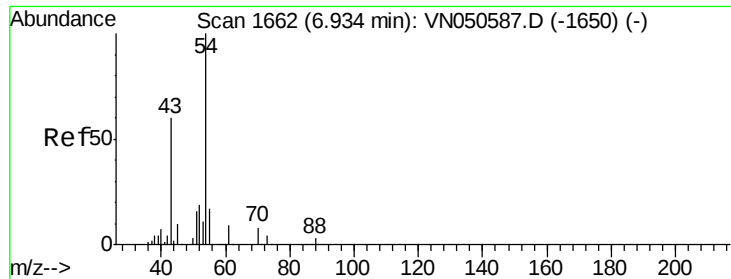
MMDadoda  
 8/15/2018 3:32:49 PM



#36  
 1,1-Dichloropropene  
 Concen: 49.44 ug/l  
 RT: 7.80 min Scan# 1930  
 Delta R.T. 0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 75      | 100   |      |       |       |
| 110     | 36.1  | 18.3 | 54.9  |       |
| 77      | 31.4  | 25.0 | 37.4  |       |





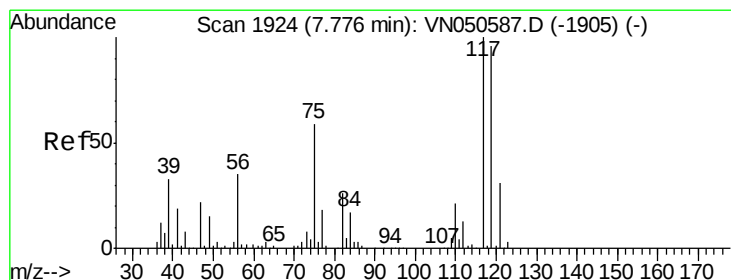
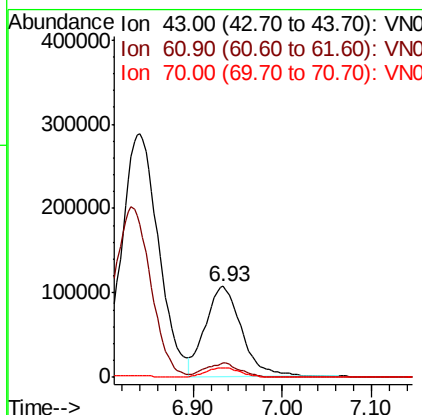
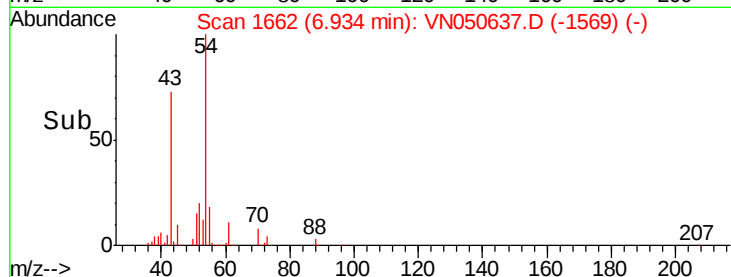
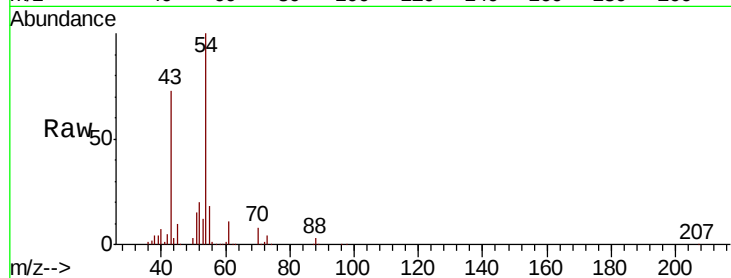
#37  
Ethyl Acetate  
Concen: 48.73 ug/l  
RT: 6.93 min Scan# 1662  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
944-MW-05(17)MSD

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 43      | 100   |      |       |       |
| 61      | 14.7  | 12.0 | 18.0  |       |
| 70      | 10.1  | 8.5  | 12.7  |       |

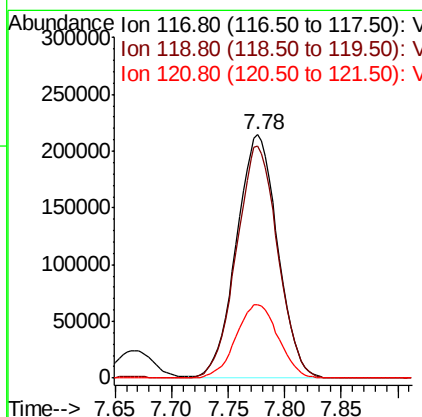
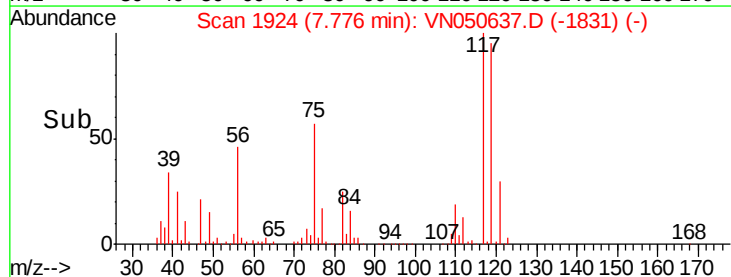
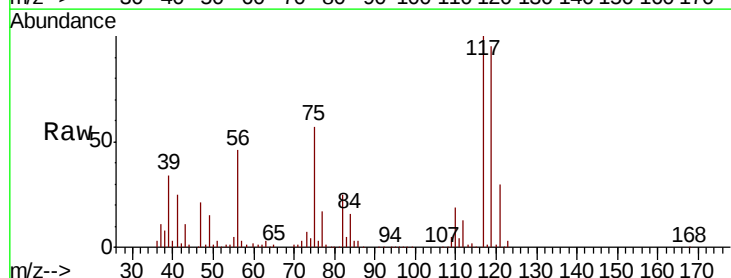
Manual Integrations  
APPROVED

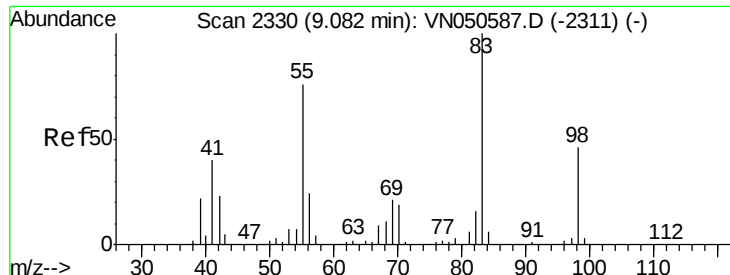
MMDadoda  
8/15/2018 3:32:49 PM



#38  
Carbon Tetrachloride  
Concen: 47.60 ug/l  
RT: 7.78 min Scan# 1924  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   |      |       |       |
| 119     | 95.4  | 76.6 | 115.0 |       |
| 121     | 30.4  | 25.0 | 37.6  |       |





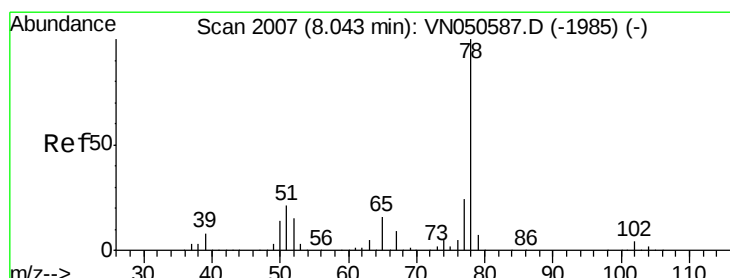
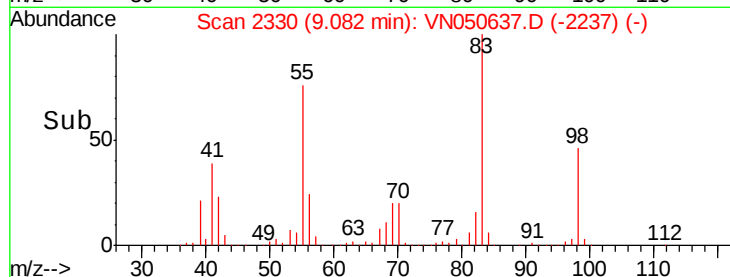
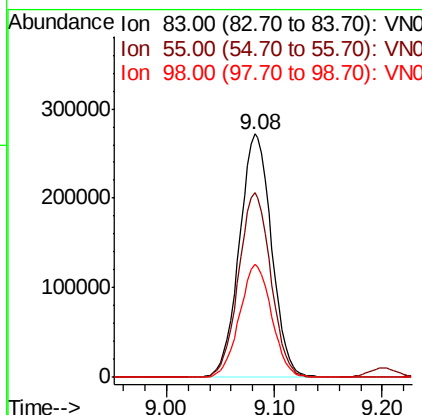
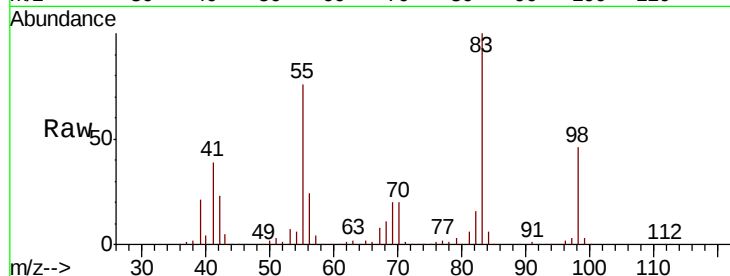
#39  
Methvlcvclohexane  
Concen: 49.49 ug/l  
RT: 9.08 min Scan# 2330  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
944-MW-05(17)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 76.1  | 60.6  | 91.0  |
| 98      | 46.3  | 37.0  | 55.4  |

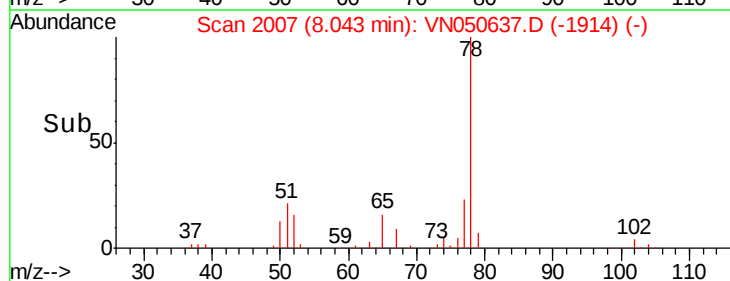
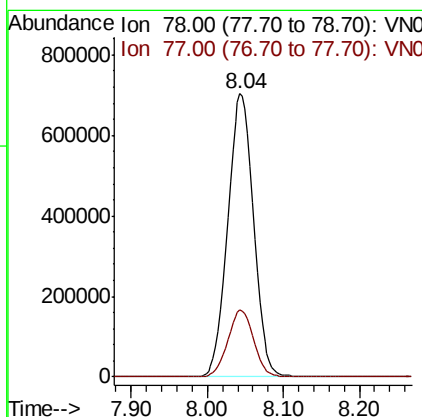
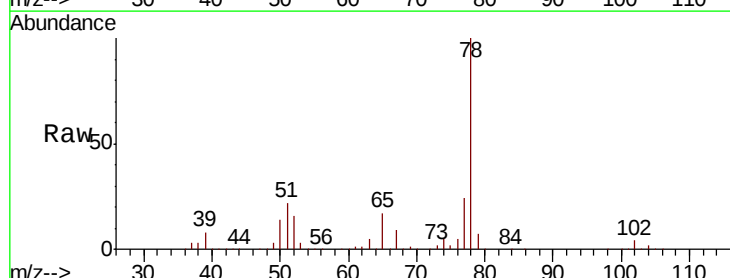
Manual Integrations  
APPROVED

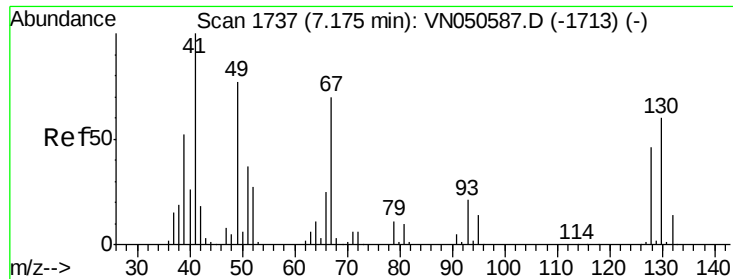
MMDadoda  
8/15/2018 3:32:49 PM



#40  
Benzene  
Concen: 49.60 ug/l  
RT: 8.04 min Scan# 2007  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 78      | 100   |       |       |
| 77      | 23.5  | 19.0  | 28.6  |





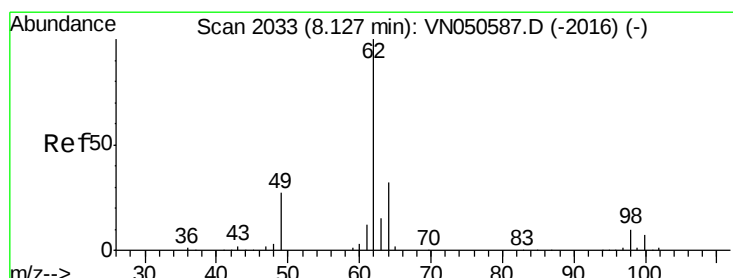
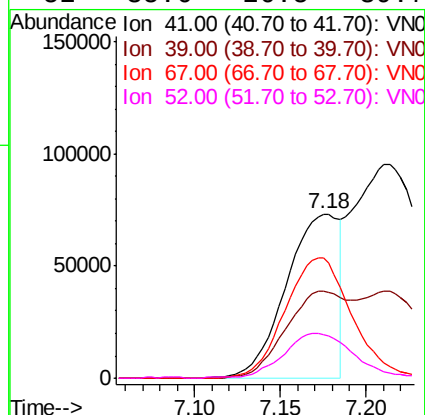
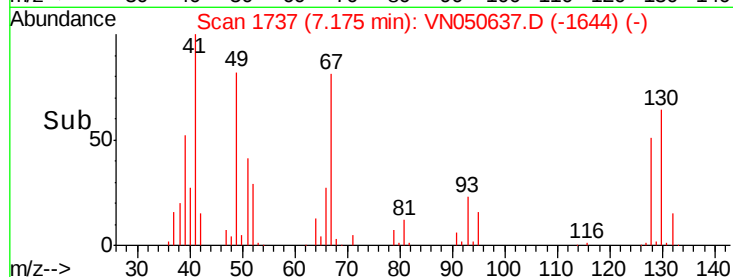
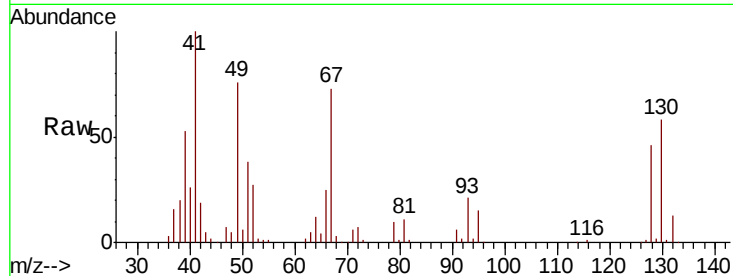
#41  
Methacrylonitrile  
Concen: 46.86 ug/l  
RT: 7.18 min Scan# 1737  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
944-MW-05(17)MSD

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 41      | 100  |       | 157640 |       |       |
| 39      | 61.0 | 44.6  | 66.8   |       |       |
| 67      | 92.7 | 66.7  | 100.1  |       |       |
| 52      | 35.6 | 26.5  | 39.7   |       |       |

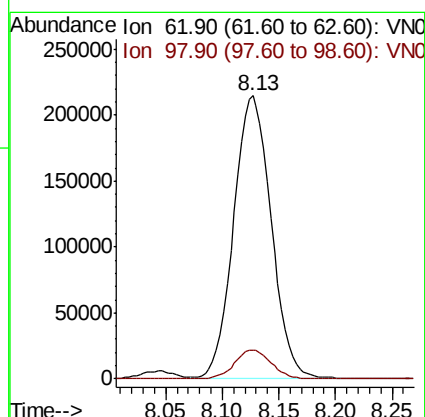
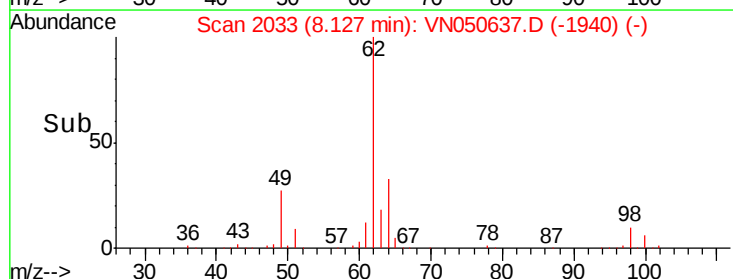
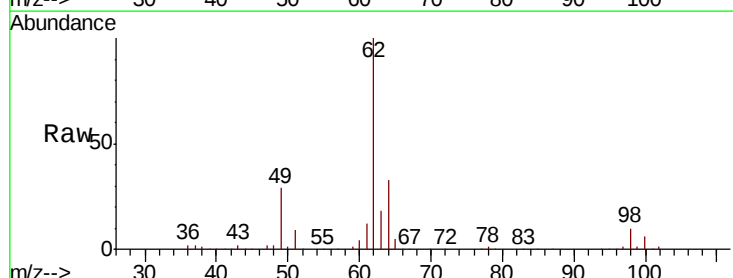
Manual Integrations  
APPROVED

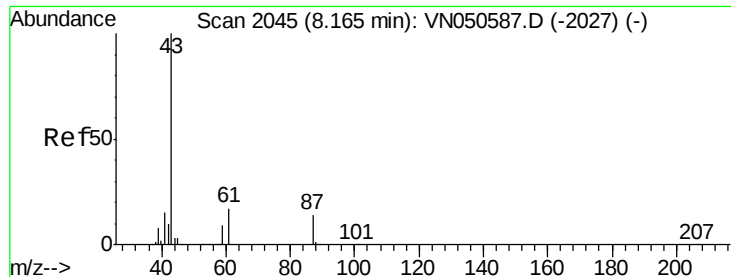
MMDadoda  
8/15/2018 3:32:49 PM



#42  
1,2-Dichloroethane  
Concen: 48.20 ug/l  
RT: 8.13 min Scan# 2033  
Delta R.T. 0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 62      | 100  |       | 494673 |       |       |
| 98      | 10.0 | 0.0   | 19.4   |       |       |





#43

Isopropyl Acetate

Concen: 47.34 ug/l

RT: 8.17 min Scan# 2045

Delta R.T. 0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

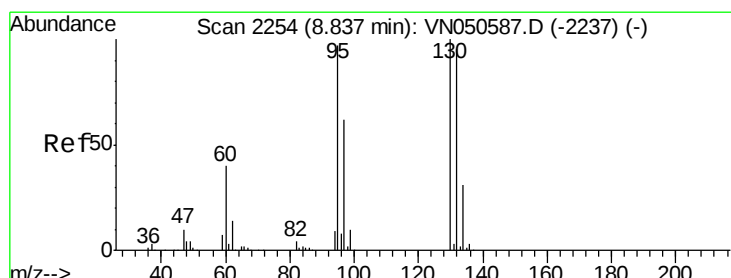
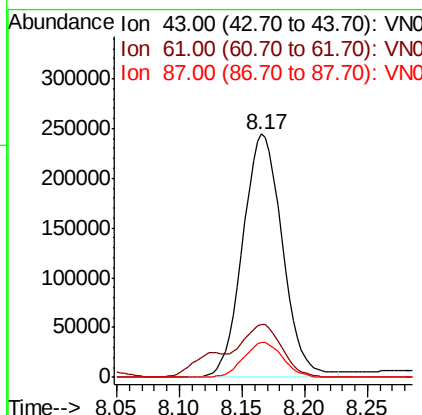
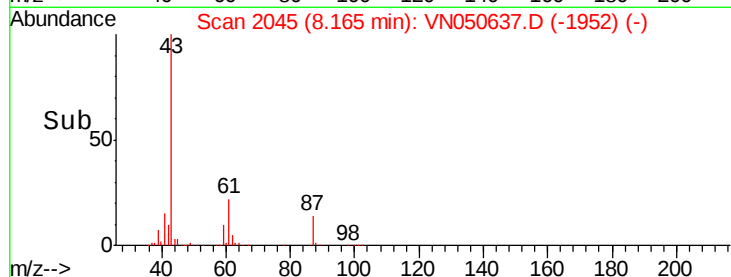
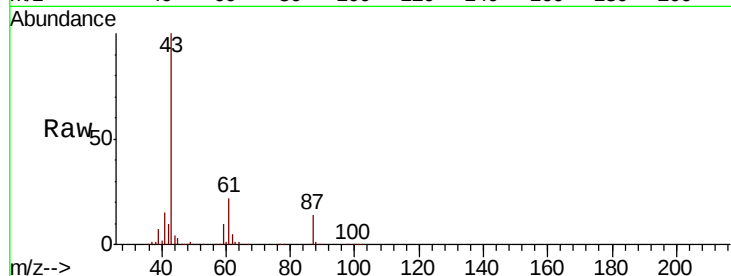
ClientSampleId :

944-MW-05(17)MSD

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 43    | Resp: | 536802 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 61       | 22.1  | 16.2  | 24.2   |
| 87       | 14.3  | 10.9  | 16.3   |

Manual Integrations  
APPROVED

MMDadoda  
8/15/2018 3:32:49 PM



#44

Trichloroethene

Concen: 48.68 ug/l

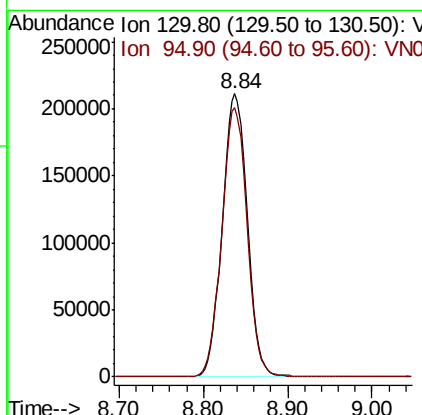
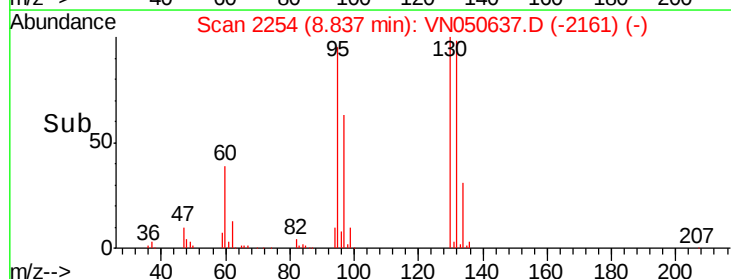
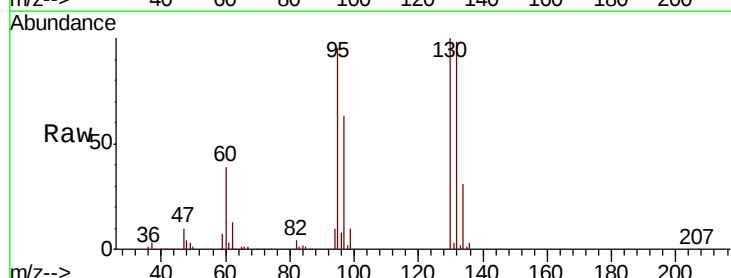
RT: 8.84 min Scan# 2254

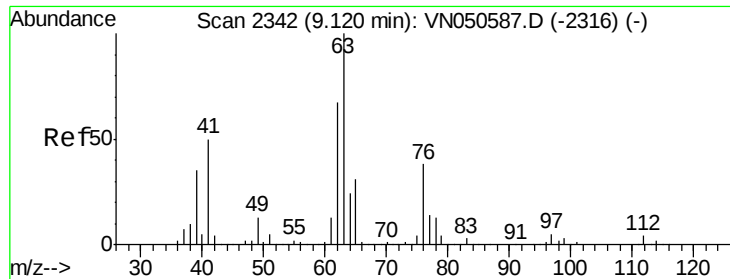
Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 130   | Resp: | 436690 |
| Ion      | Ratio | Lower | Upper  |
| 130      | 100   |       |        |
| 95       | 95.2  | 0.0   | 193.8  |





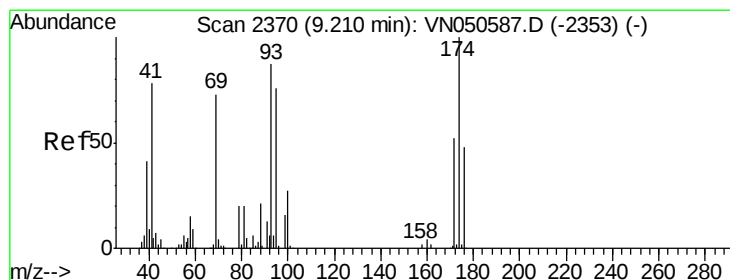
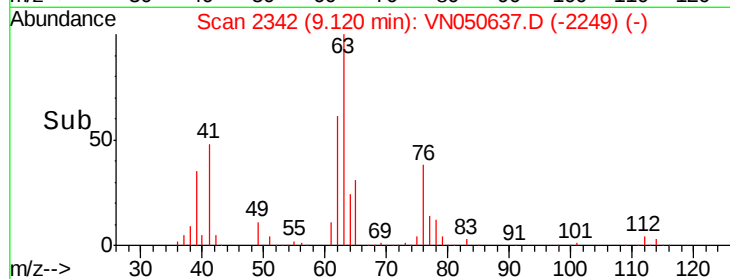
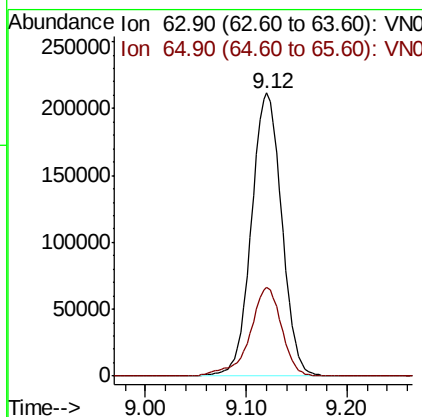
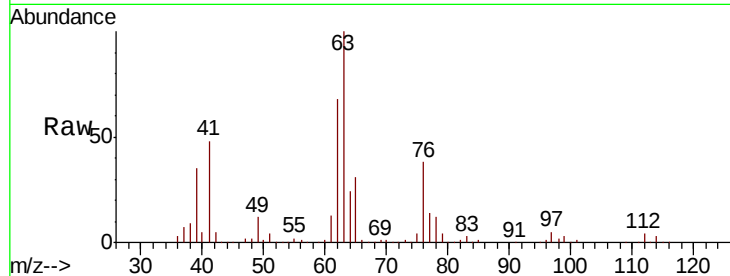
#45  
 1,2-Dichloropropane  
 Concen: 49.33 ug/l  
 RT: 9.12 min Scan# 2342  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 944-MW-05(17)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 65      | 31.3  | 24.5  | 36.7  |

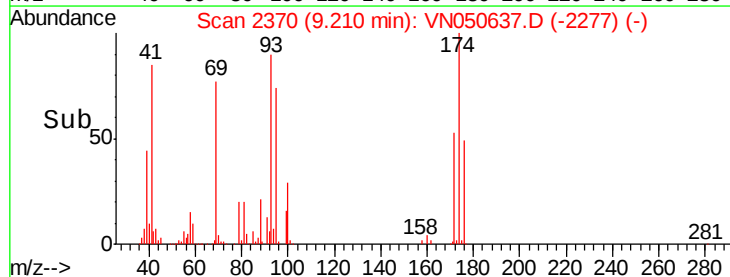
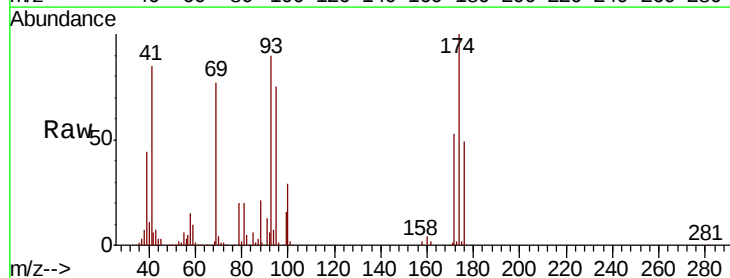
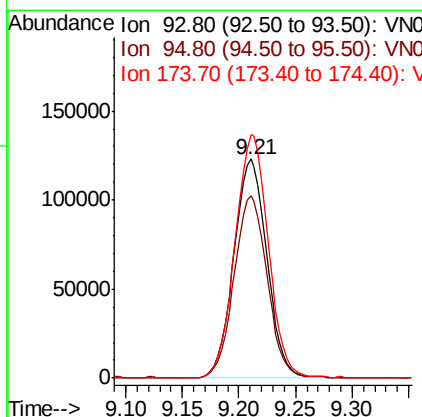
Manual Integrations  
 APPROVED

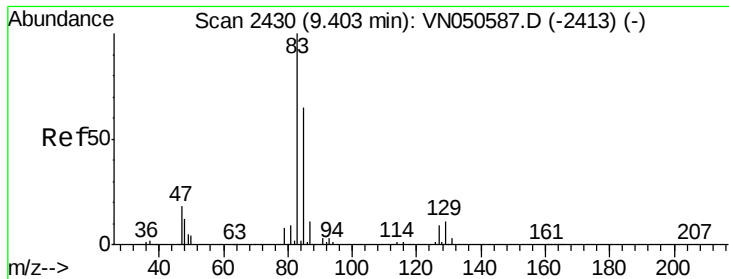
MMDadoda  
 8/15/2018 3:32:49 PM



#46  
 Dibromomethane  
 Concen: 47.69 ug/l  
 RT: 9.21 min Scan# 2370  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 83.4  | 69.1  | 103.7 |
| 174     | 111.6 | 91.0  | 136.6 |





#47

Bromodichloromethane

Concen: 48.06 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

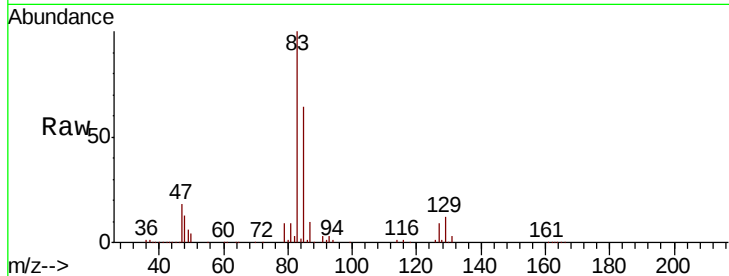
ClientSampleId :

944-MW-05(17)MSD

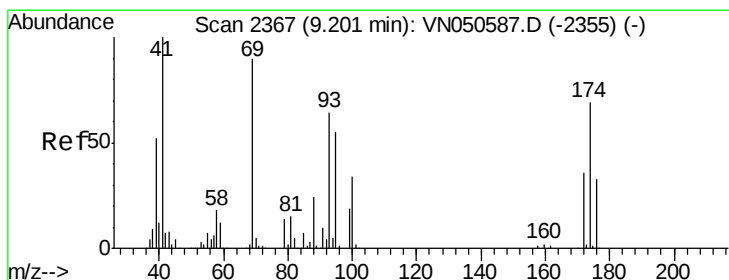
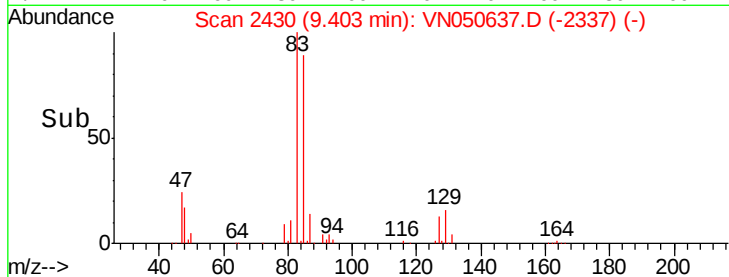
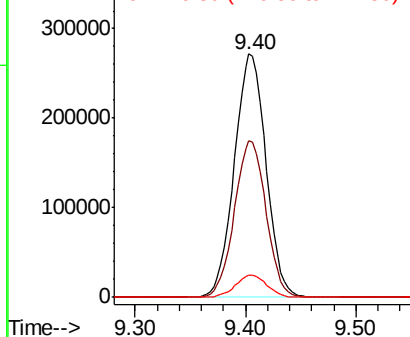
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 83    | Resp: | 540708 |
| Ion Ratio | Lower | Upper |        |
| 83        | 100   |       |        |
| 85        | 64.3  | 51.8  | 77.6   |
| 127       | 9.1   | 7.2   | 10.8   |

Manual Integrations  
APPROVED

MMDadoda  
8/15/2018 3:32:49 PM



Abundance Ion 82.90 (82.60 to 83.60): VNO  
Ion 84.90 (84.60 to 85.60): VNO  
Ion 126.80 (126.50 to 127.50): VNO



#48

Methyl methacrylate

Concen: 48.15 ug/l

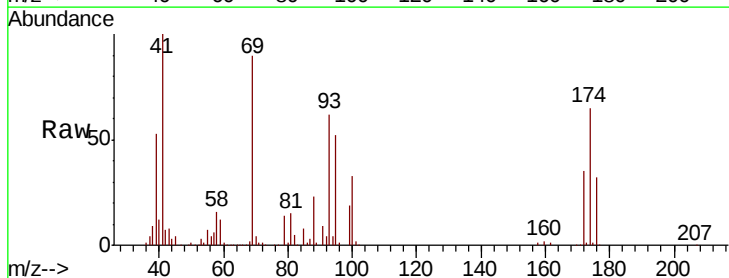
RT: 9.20 min Scan# 2367

Delta R.T. -0.00 min

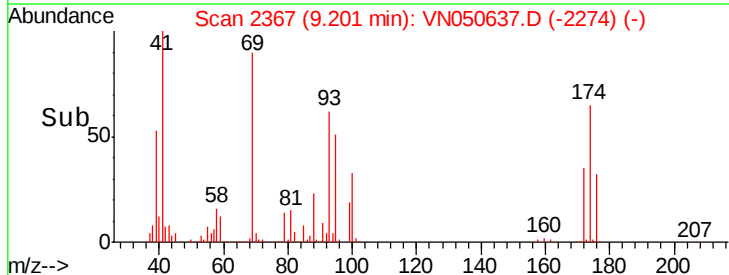
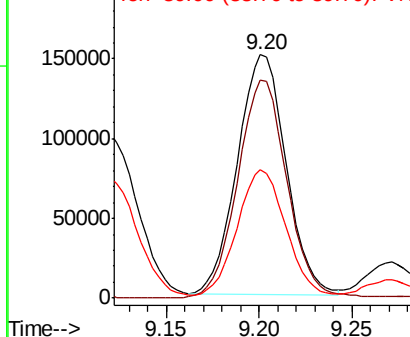
Lab File: VN050637.D

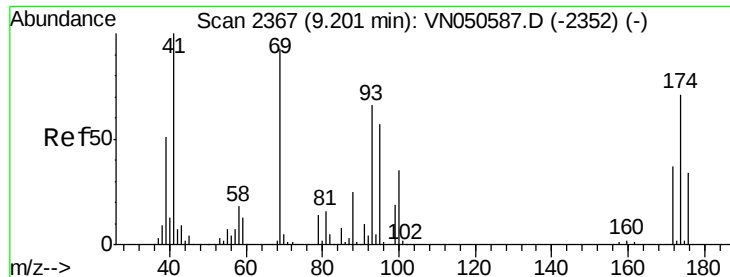
Acq: 15 Aug 2018 6:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 41    | Resp: | 274745 |
| Ion Ratio | Lower | Upper |        |
| 41        | 100   |       |        |
| 69        | 92.5  | 73.4  | 110.0  |
| 39        | 54.0  | 43.0  | 64.6   |



Abundance Ion 41.00 (40.70 to 41.70): VNO  
Ion 69.00 (68.70 to 69.70): VNO  
Ion 39.00 (38.70 to 39.70): VNO





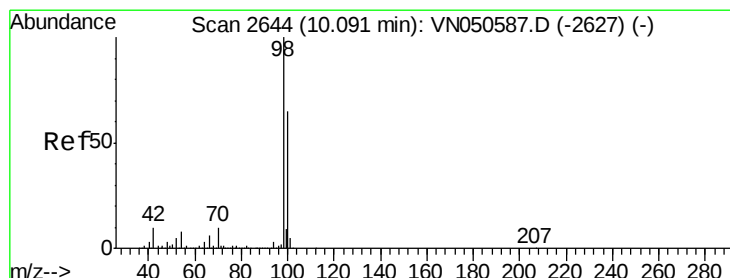
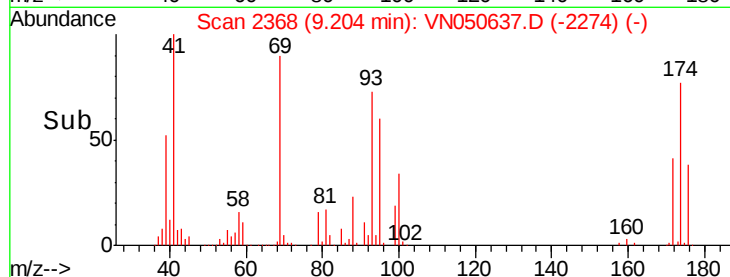
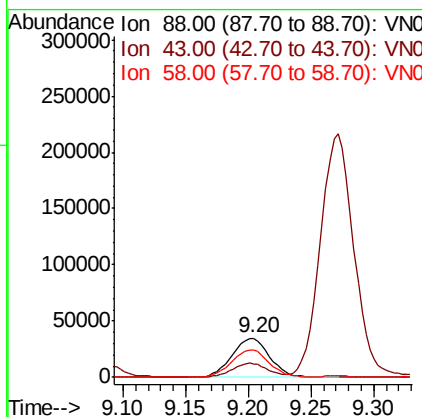
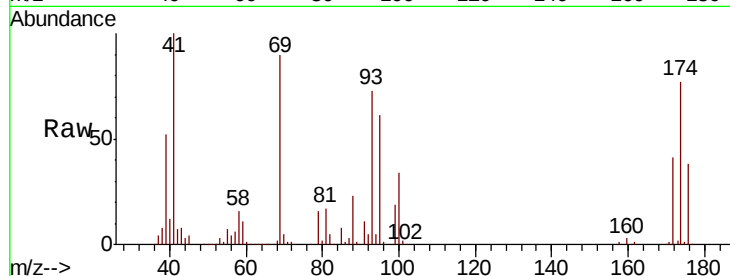
#49  
1,4-Dioxane  
Concen: 968.06 ug/l  
RT: 9.20 min Scan# 2368  
Delta R.T. 0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
944-MW-05(17)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 32.7  | 25.9  | 38.9  |
| 58      | 70.7  | 56.5  | 84.7  |

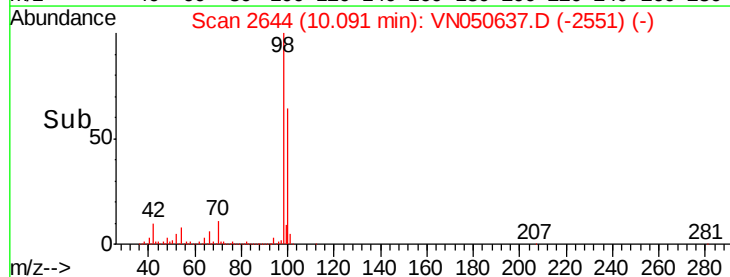
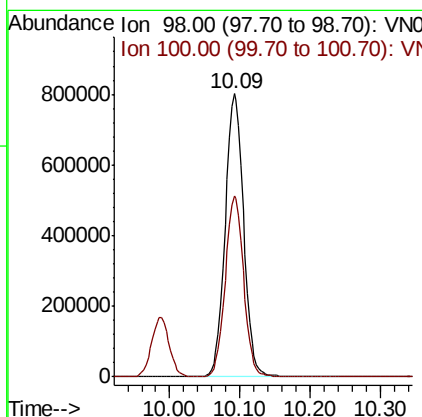
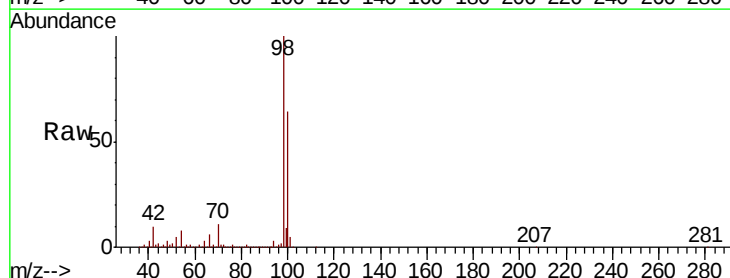
Manual Integrations  
APPROVED

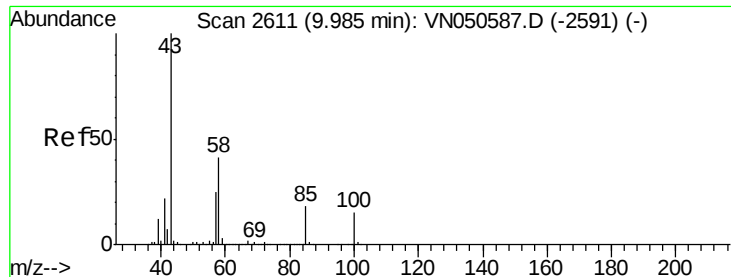
MMDadoda  
8/15/2018 3:32:49 PM



#50  
Toluene-d8  
Concen: 49.41 ug/l  
RT: 10.09 min Scan# 2644  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 63.5  | 51.8  | 77.8  |





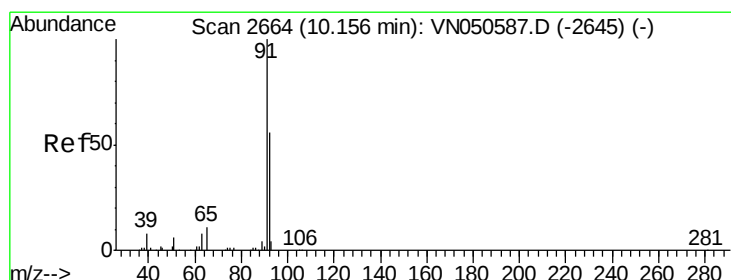
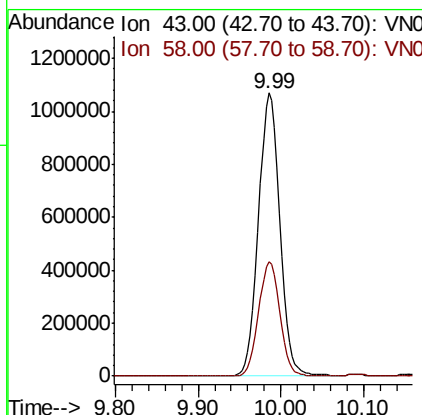
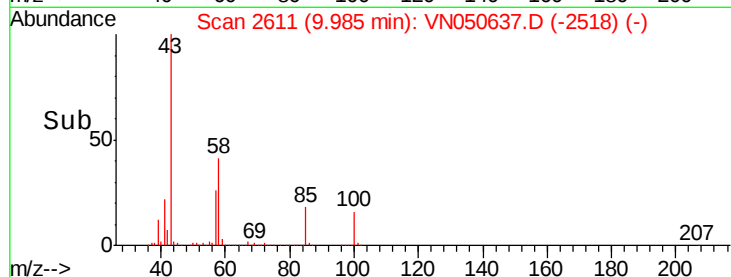
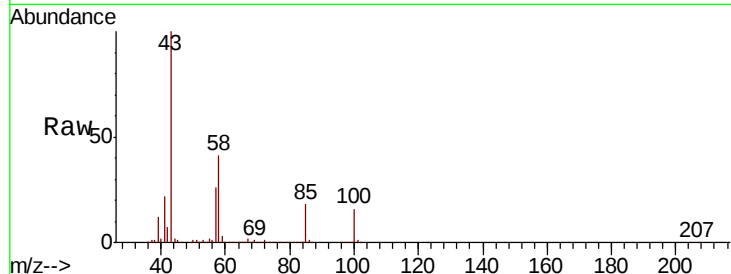
#51  
4-Methyl-2-Pentanone  
Concen: 250.22 ug/l  
RT: 9.99 min Scan# 2611  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
944-MW-05(17)MSD

Tot Ion: 43 Resp: 1918835  
Ion Ratio Lower Upper  
43 100  
58 40.5 32.5 48.7

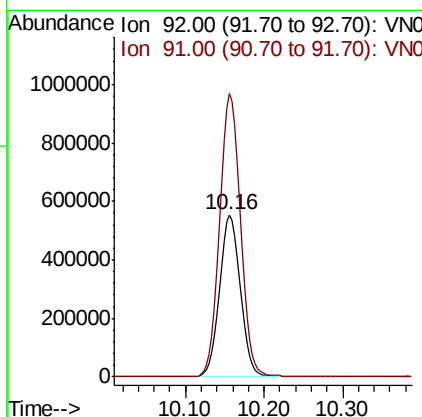
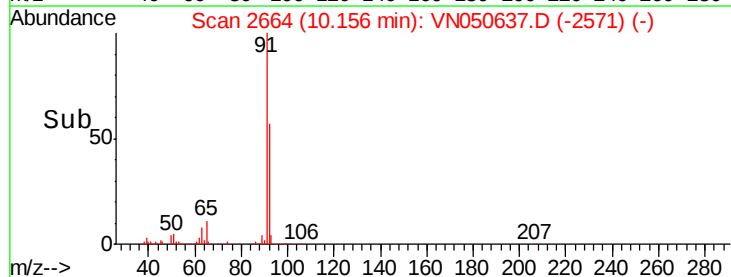
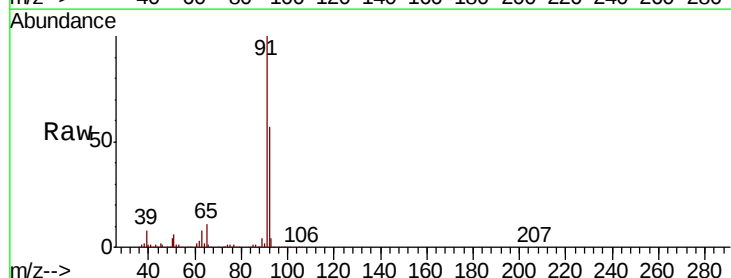
Manual Integrations  
APPROVED

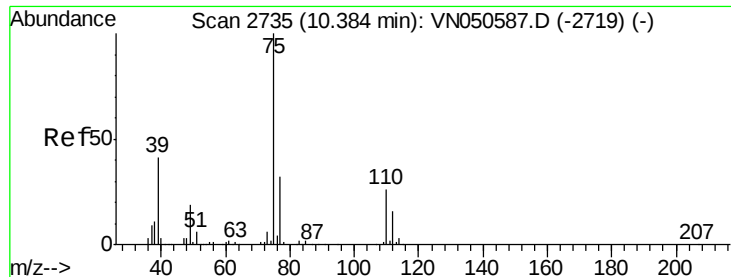
MMDadoda  
8/15/2018 3:32:49 PM



#52  
Toluene  
Concen: 50.38 ug/l  
RT: 10.16 min Scan# 2664  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

Tgt Ion: 92 Resp: 1007301  
Ion Ratio Lower Upper  
92 100  
91 175.7 141.9 212.9





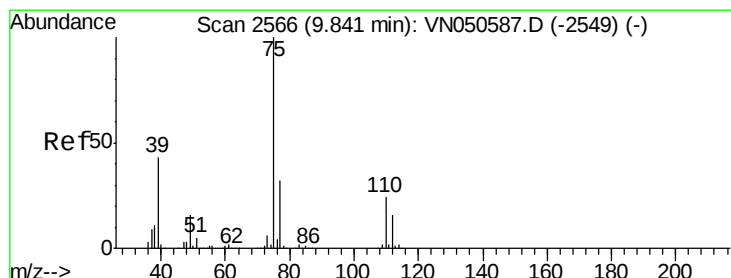
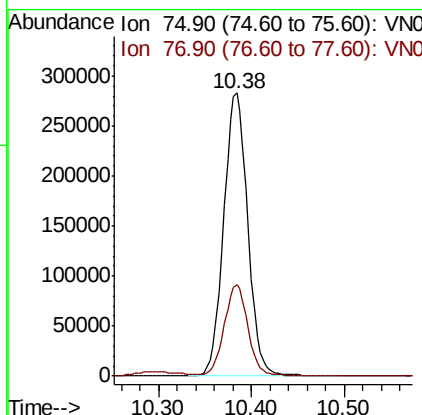
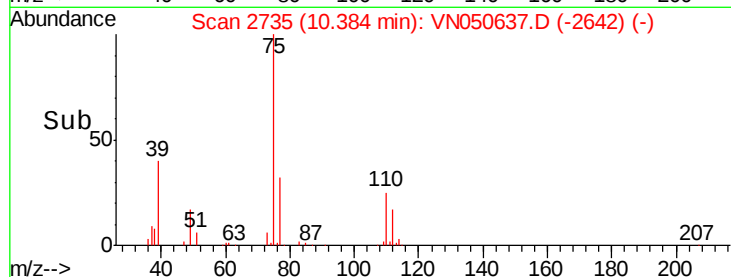
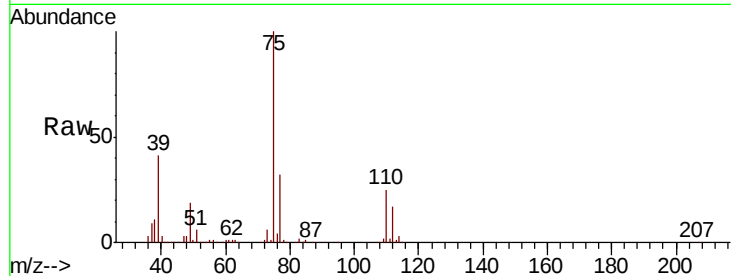
#53  
t-1,3-Dichloropropene  
Concen: 48.44 ug/l  
RT: 10.38 min Scan# 2735  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
944-MW-05(17)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 32.1  | 25.8  | 38.6  |

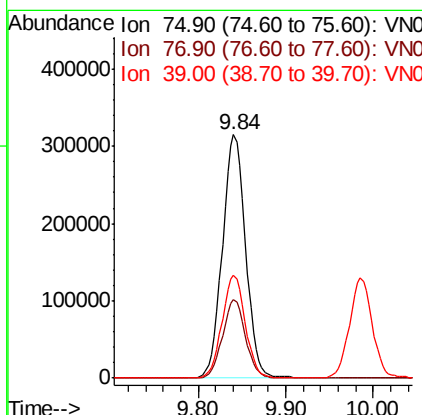
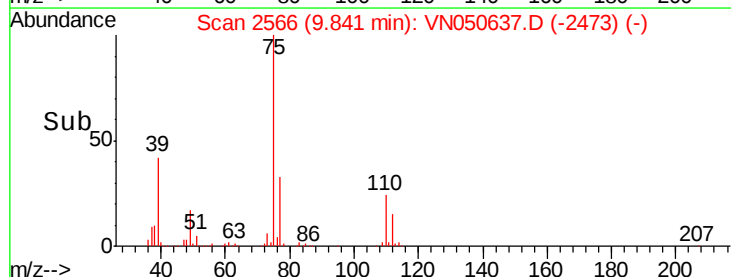
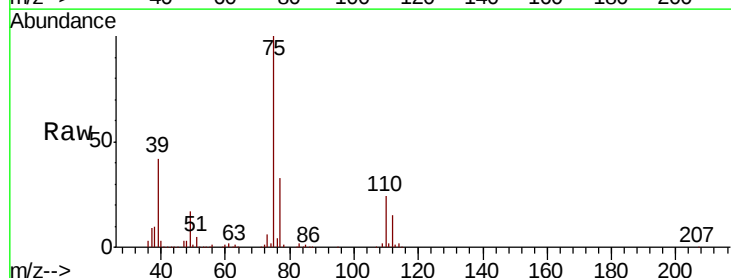
Manual Integrations  
APPROVED

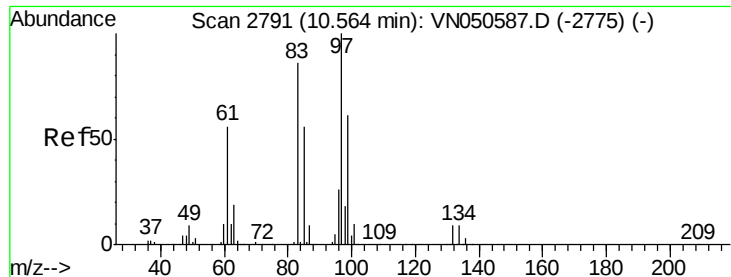
MMDadoda  
8/15/2018 3:32:49 PM



#54  
cis-1,3-Dichloropropene  
Concen: 48.27 ug/l  
RT: 9.84 min Scan# 2566  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 32.5  | 25.6  | 38.4  |
| 39      | 42.2  | 34.4  | 51.6  |





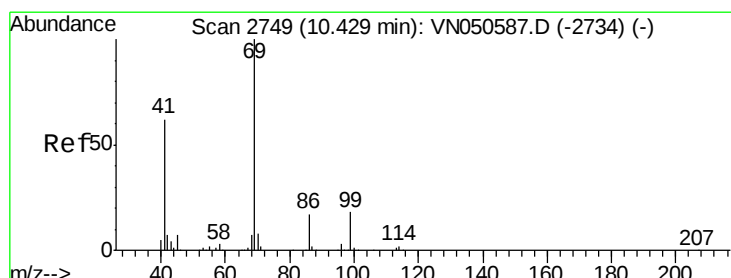
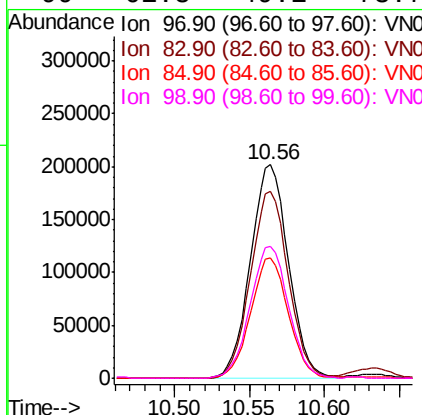
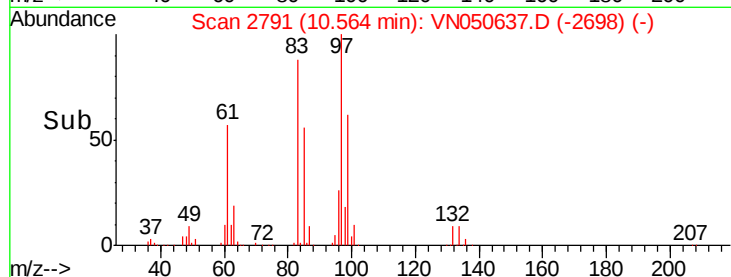
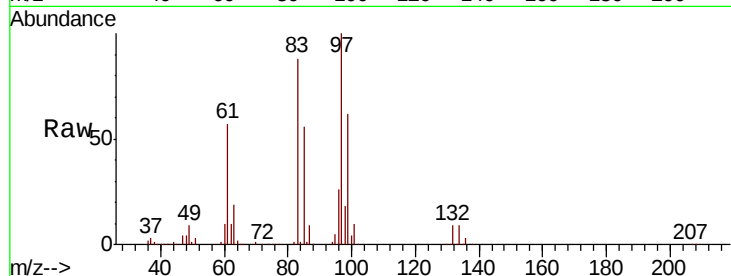
#55  
 1,1,2-Trichloroethane  
 Concen: 47.83 ug/l  
 RT: 10.56 min Scan# 2791  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 944-MW-05(17)MSD

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 97      | 100  |       | 357243 |       |       |
| 83      | 87.8 | 68.5  | 102.7  |       |       |
| 85      | 56.3 | 44.6  | 66.8   |       |       |
| 99      | 61.8 | 49.1  | 73.7   |       |       |

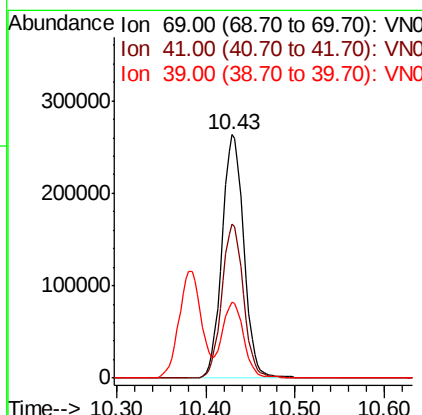
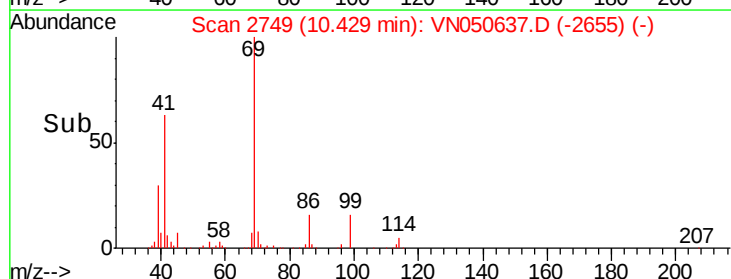
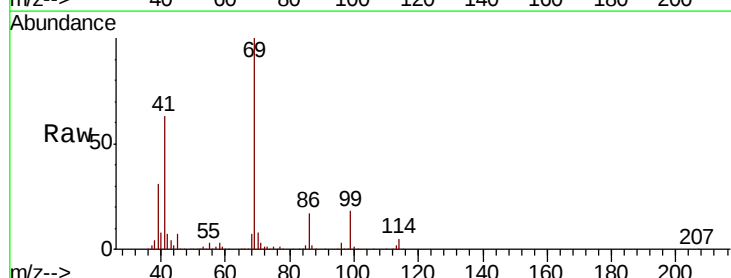
Manual Integrations  
 APPROVED

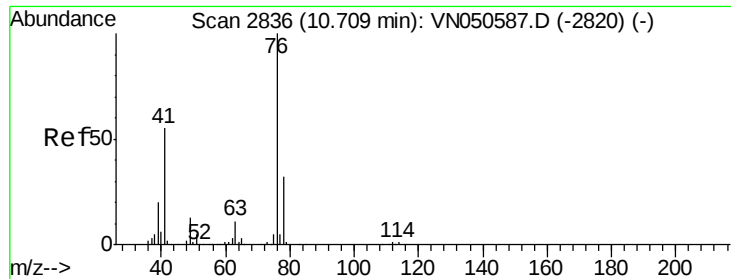
MMDadoda  
 8/15/2018 3:32:49 PM



#56  
 Ethyl methacrylate  
 Concen: 47.00 ug/l  
 RT: 10.43 min Scan# 2749  
 Delta R.T. 0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 69      | 100  |       | 446719 |       |       |
| 41      | 62.1 | 49.7  | 74.5   |       |       |
| 39      | 31.4 | 24.2  | 36.2   |       |       |





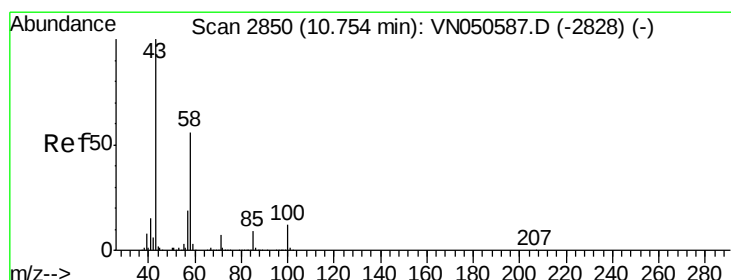
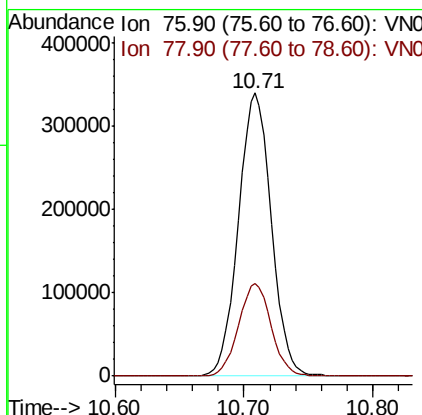
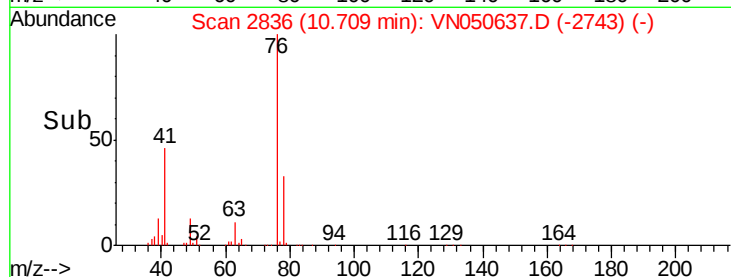
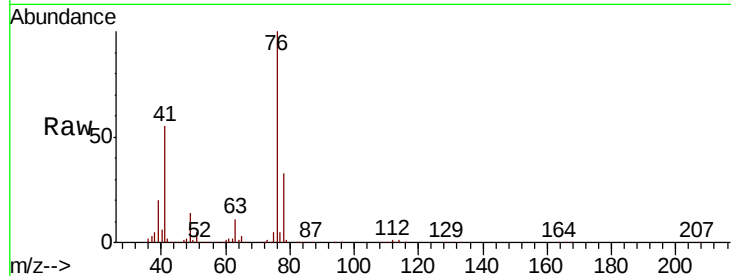
#57  
 1,3-Dichloropropane  
 Concen: 49.19 ug/l  
 RT: 10.71 min Scan# 2836  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 944-MW-05(17)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 76      | 100   |       |       |
| 78      | 32.6  | 25.8  | 38.6  |

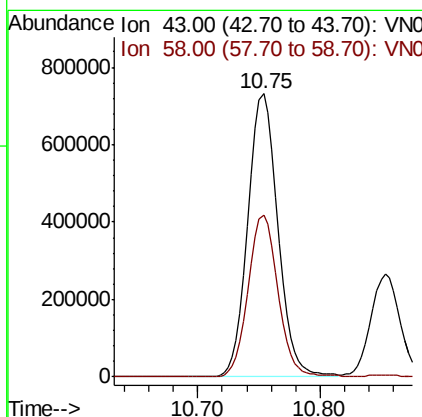
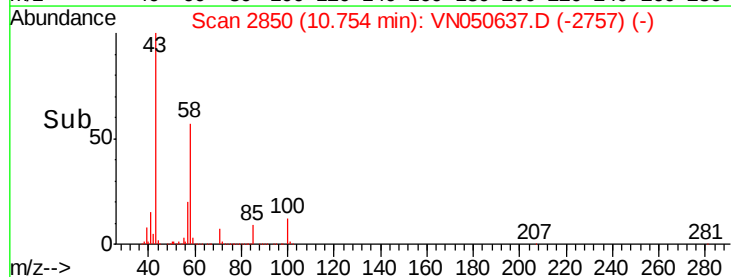
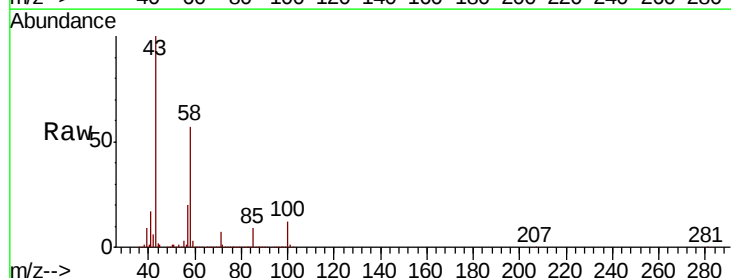
Manual Integrations  
 APPROVED

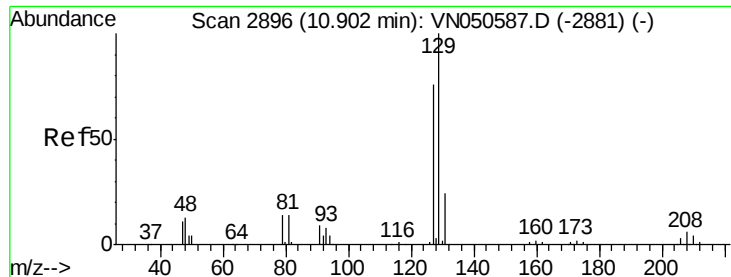
MMDadoda  
 8/15/2018 3:32:49 PM



#59  
 2-Hexanone  
 Concen: 250.32 ug/l  
 RT: 10.75 min Scan# 2850  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 56.8  | 28.0  | 84.0  |





#60

Dibromochloromethane

Concen: 49.97 ug/l

RT: 10.90 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

ClientSampleId :

944-MW-05(17)MSD

Tot Ion:129 Resp: 411905

Ion Ratio Lower Upper

129 100

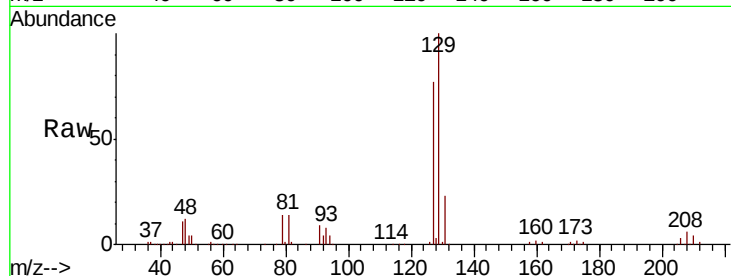
127 77.4 38.9 116.7

Manual Integrations

APPROVED

MMDadoda

8/15/2018 3:32:49 PM



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

250000

200000

150000

100000

50000

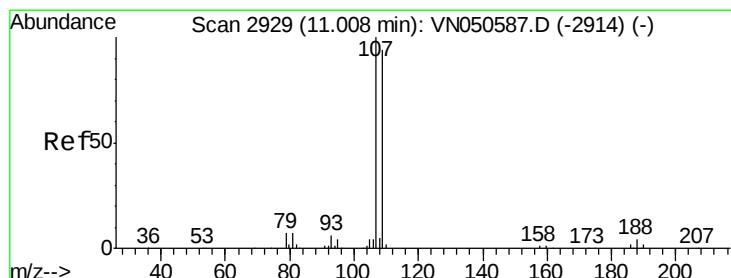
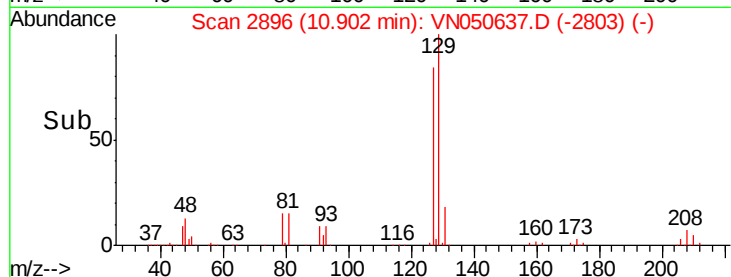
0

10.80

10.90

11.00

Time-->



#61

1,2-Dibromoethane

Concen: 49.44 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. -0.00 min

Lab File: VN050637.D

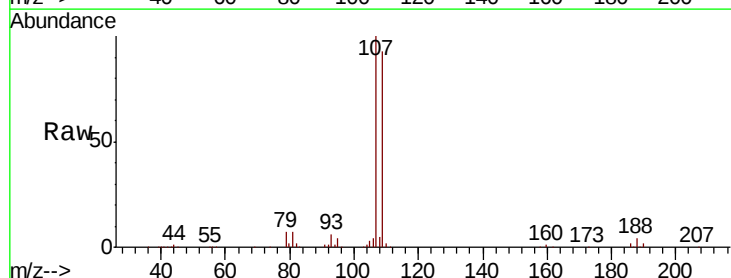
Acq: 15 Aug 2018 6:23

Tgt Ion:107 Resp: 351690

Ion Ratio Lower Upper

107 100

109 93.2 75.7 113.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

200000

150000

100000

50000

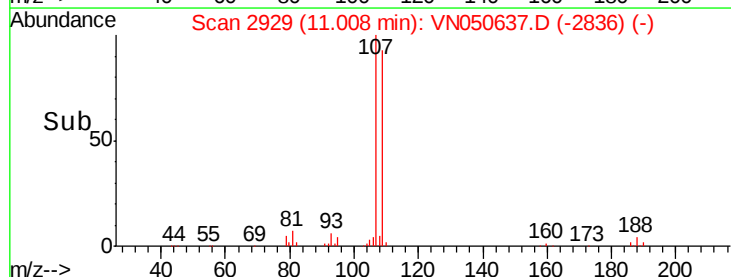
0

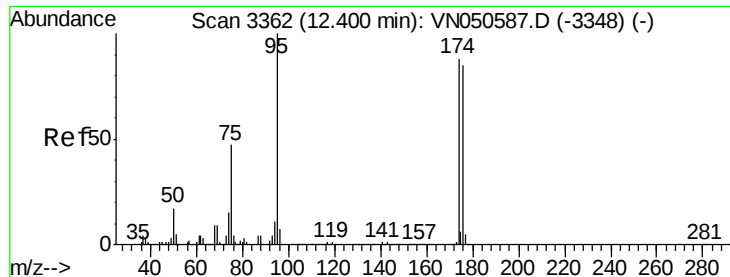
10.90

11.00

11.10

Time-->





#62

4-Bromofluorobenzene

Concen: 48.09 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

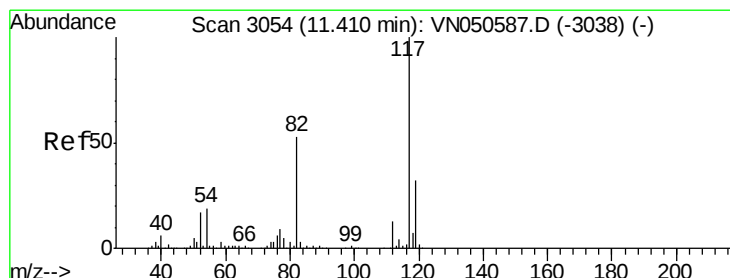
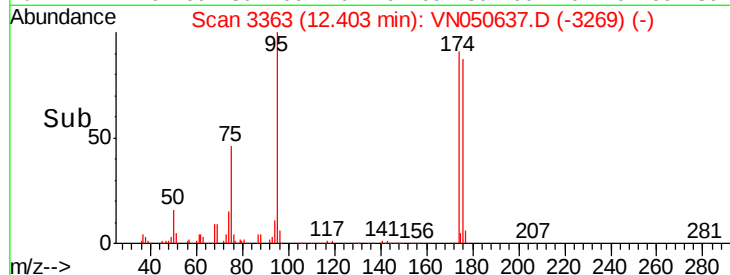
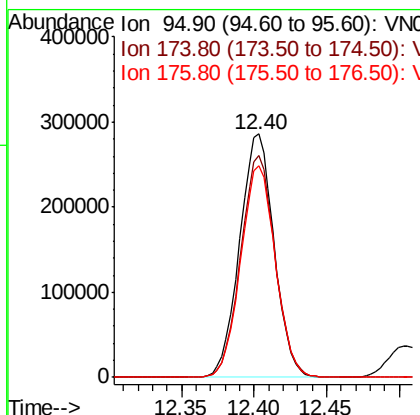
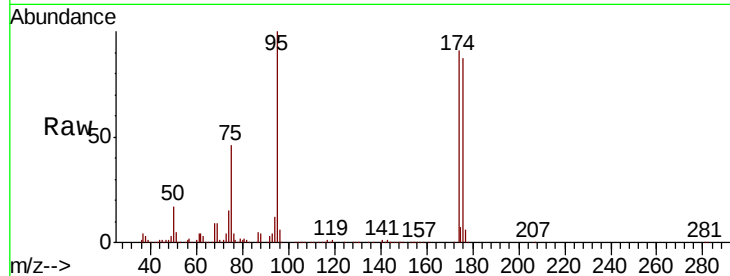
ClientSampleId :

944-MW-05(17)MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 95    | Resp: | 471963 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 90.8  | 0.0   | 177.8  |
| 176       | 87.7  | 0.0   | 175.0  |

Manual Integrations  
APPROVED

MMDadoda  
8/15/2018 3:32:49 PM



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

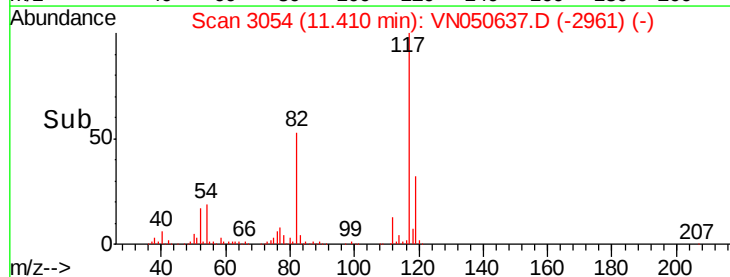
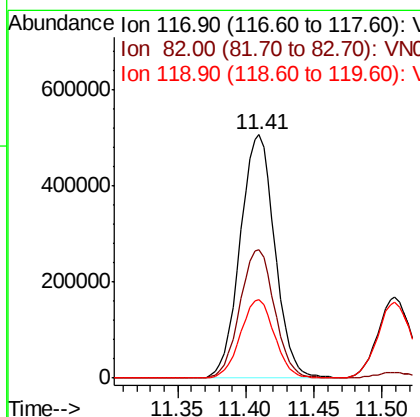
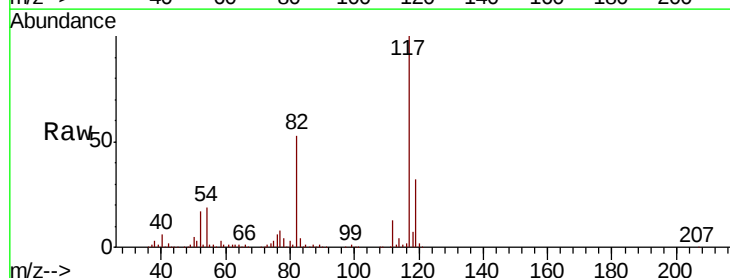
RT: 11.41 min Scan# 3054

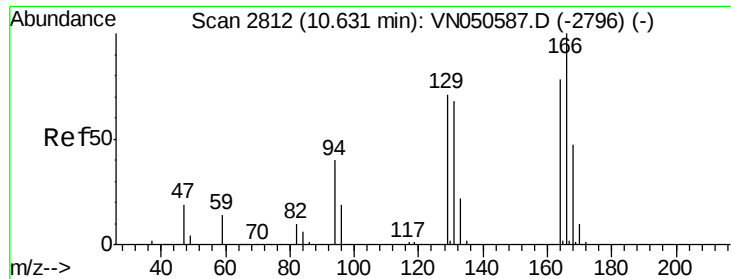
Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 893147 |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 52.9  | 42.4  | 63.6   |
| 119       | 32.0  | 25.8  | 38.8   |





#64

Tetrachloroethene

Concen: 97.02 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

ClientSampleId :

944-MW-05(17)MSD

Tot Ion:164 Resp: 804718

Ion Ratio Lower Upper

164 100

166 130.0 102.1 153.1

129 92.4 72.7 109.1

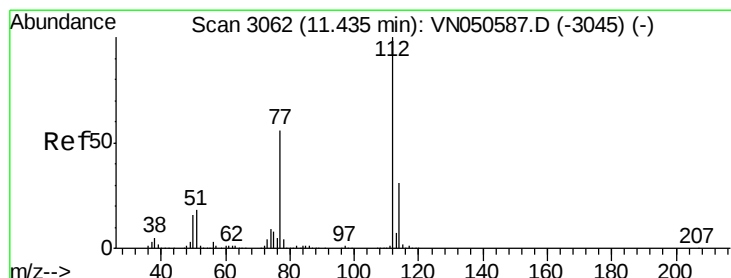
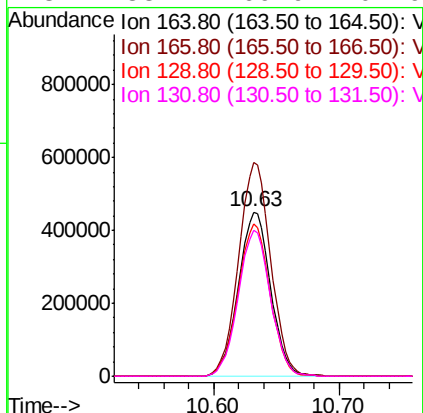
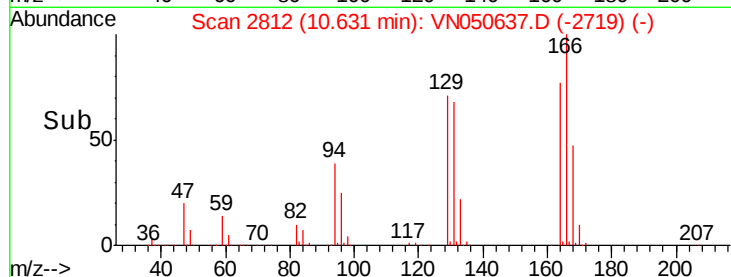
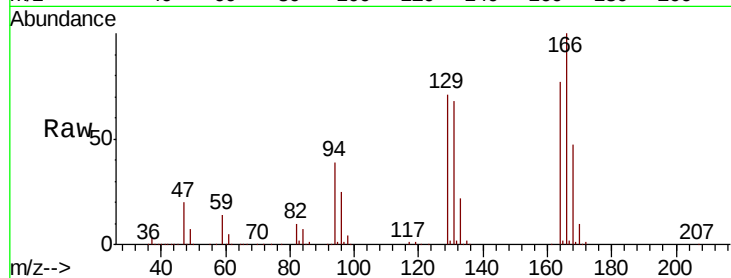
131 88.4 69.9 104.9

Manual Integrations

APPROVED

MMDadoda

8/15/2018 3:32:49 PM



#65

Chlorobenzene

Concen: 48.94 ug/l

RT: 11.43 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN050637.D

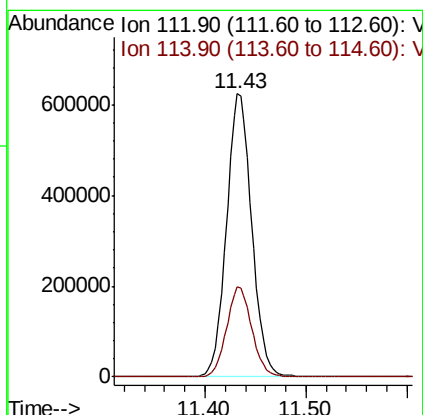
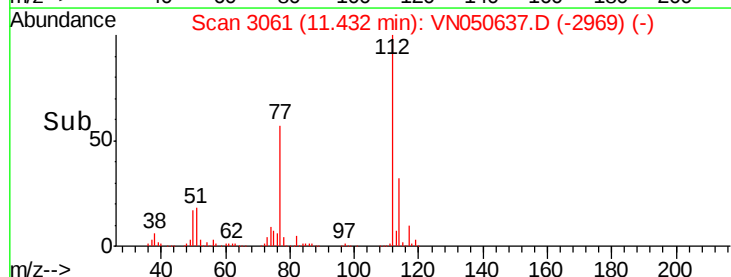
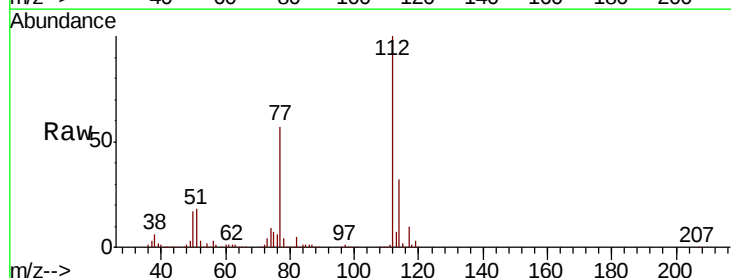
Acq: 15 Aug 2018 6:23

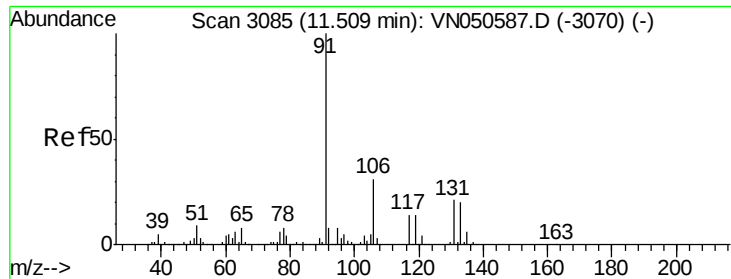
Tgt Ion:112 Resp: 1087858

Ion Ratio Lower Upper

112 100

114 31.7 25.2 37.8





#66

1,1,1,2-Tetrachloroethane

Concen: 49.22 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

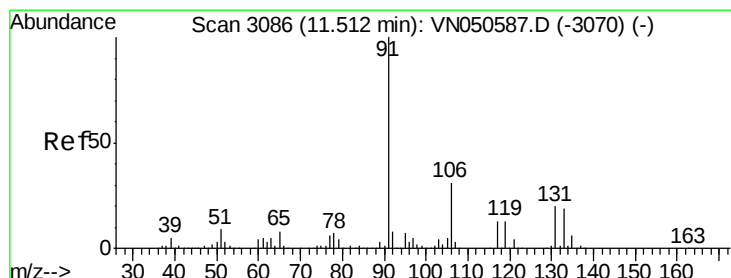
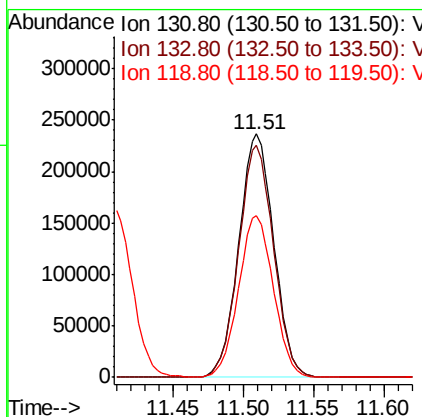
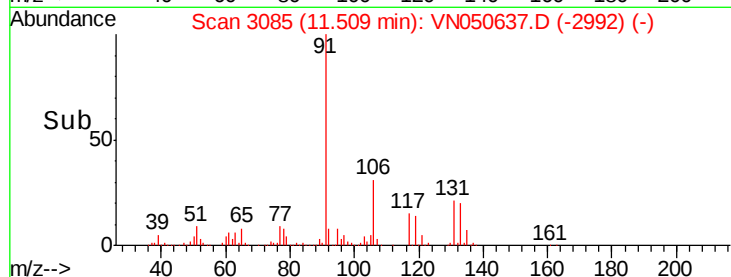
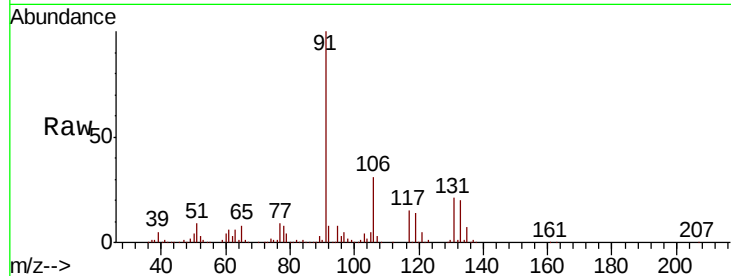
ClientSampleId :

944-MW-05(17)MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 131   | Resp: | 410145 |
| Ion Ratio | Lower | Upper |        |
| 131       | 100   |       |        |
| 133       | 95.3  | 47.6  | 142.9  |
| 119       | 66.3  | 33.1  | 99.3   |

Manual Integrations  
APPROVED

MMDadoda  
8/15/2018 3:32:49 PM



#67

Ethyl Benzene

Concen: 52.25 ug/l

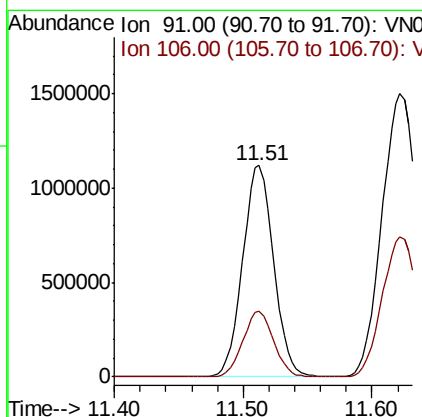
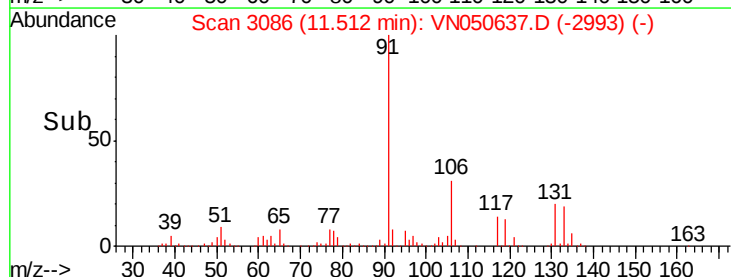
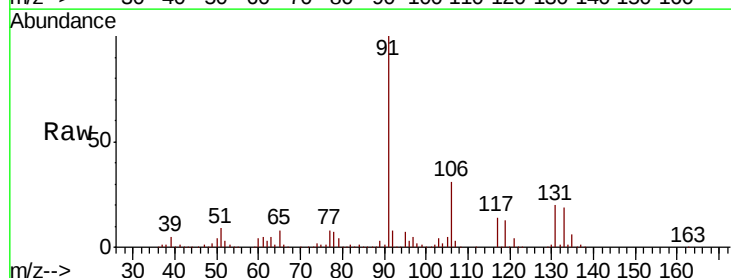
RT: 11.51 min Scan# 3086

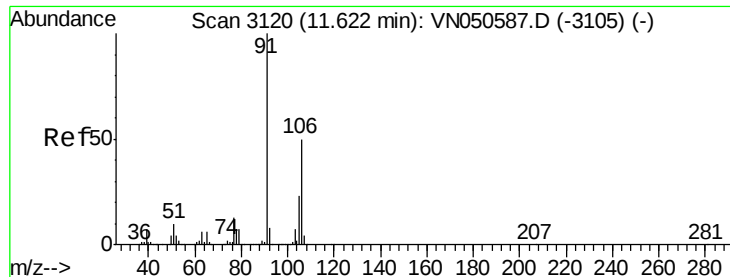
Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 91    | Resp: | 1875191 |
| Ion Ratio | Lower | Upper |         |
| 91        | 100   |       |         |
| 106       | 31.0  | 24.8  | 37.2    |





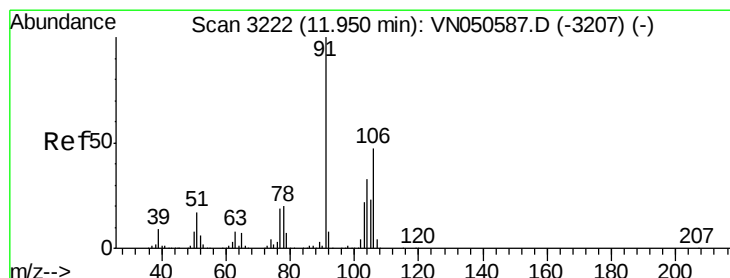
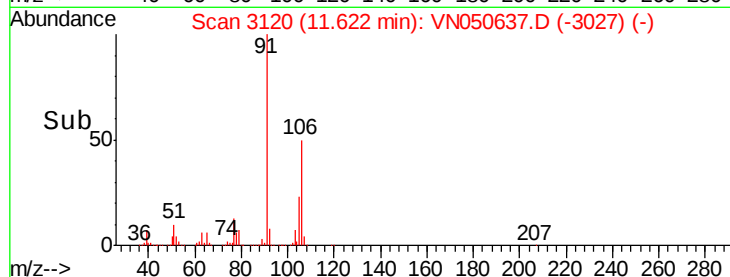
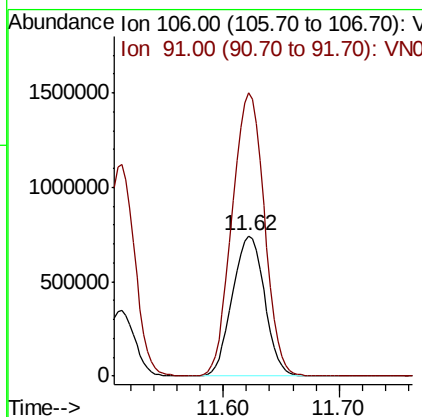
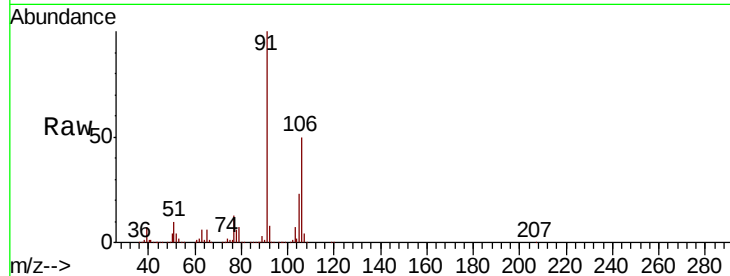
#68  
m/p-Xylenes  
Concen: 104.12 ug/l  
RT: 11.62 min Scan# 3120  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
944-MW-05(17)MSD

Tot Ion:106 Resp: 1429340  
Ion Ratio Lower Upper  
106 100  
91 202.6 161.5 242.3

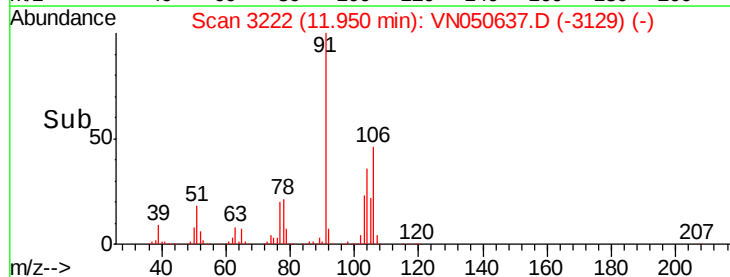
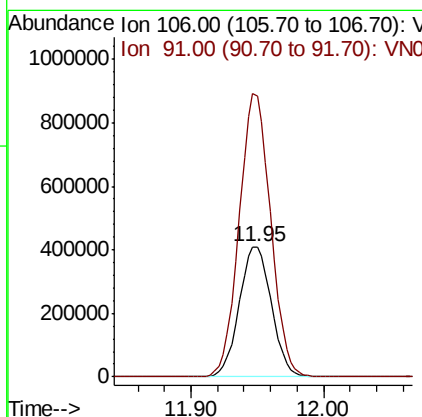
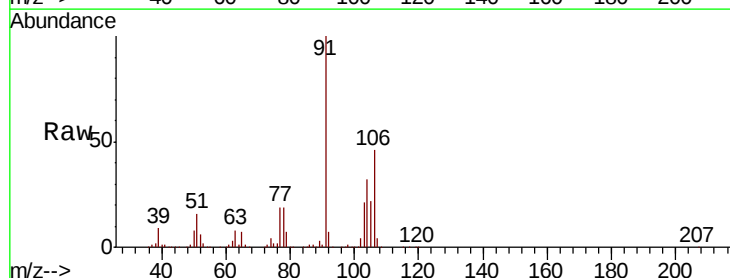
Manual Integrations  
APPROVED

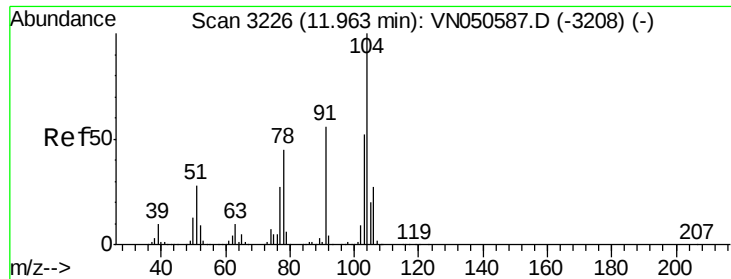
MMDadoda  
8/15/2018 3:32:49 PM



#69  
o-Xylene  
Concen: 52.73 ug/l  
RT: 11.95 min Scan# 3222  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

Tgt Ion:106 Resp: 690198  
Ion Ratio Lower Upper  
106 100  
91 213.3 106.8 320.4





#70

Stvrene

Concen: 48.05 ug/l

RT: 11.96 min Scan# 3226

Delta R.T. 0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

ClientSampleId :

944-MW-05(17)MSD

Tot Ion:104 Resp: 1117700

Ion Ratio Lower Upper

104 100

78 48.7 39.1 58.7

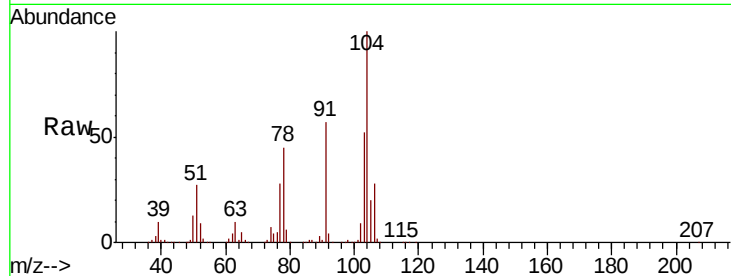
103 56.2 44.9 67.3

Manual Integrations

APPROVED

MMDadoda

8/15/2018 3:32:49 PM



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V

11.96

800000

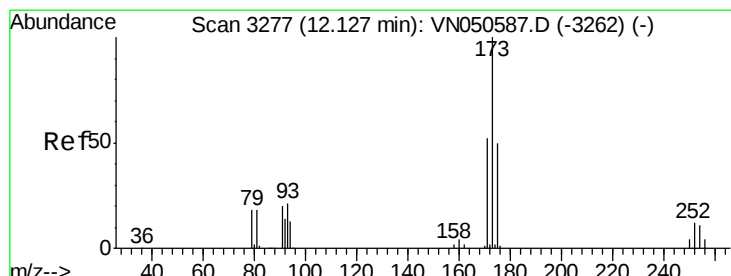
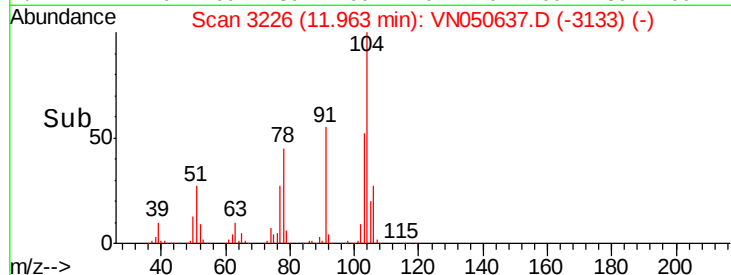
600000

400000

200000

0

Time-->



#71

Bromoform

Concen: 48.18 ug/l

RT: 12.13 min Scan# 3277

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

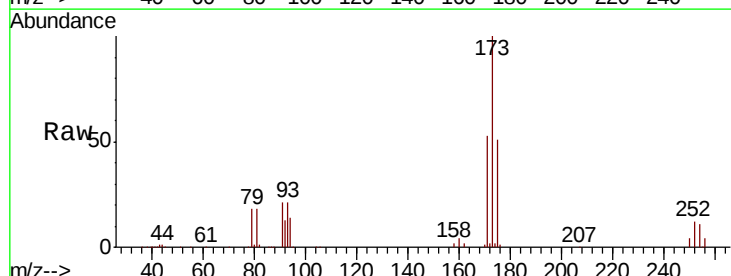
Tgt Ion:173 Resp: 266204

Ion Ratio Lower Upper

173 100

175 50.5 24.4 73.2

254 0.1 0.0 0.0#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

12.13

200000

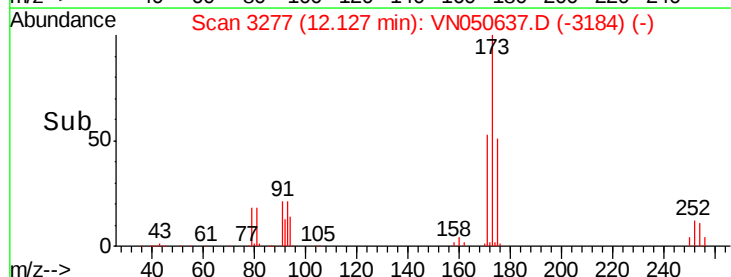
150000

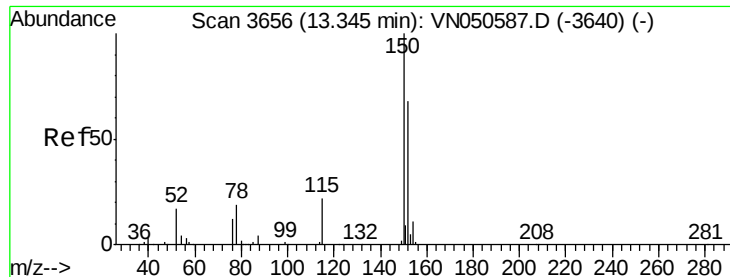
100000

50000

0

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

ClientSampleId :

944-MW-05(17)MSD

Tot Ion:152 Resp: 442048

Ion Ratio Lower Upper

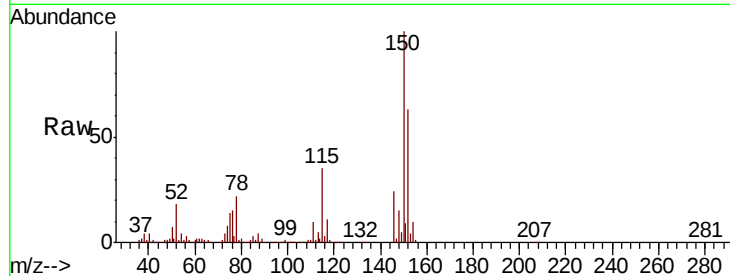
152 100

115 56.7 28.1 84.2

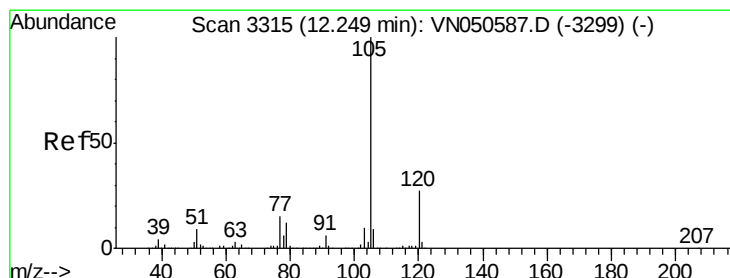
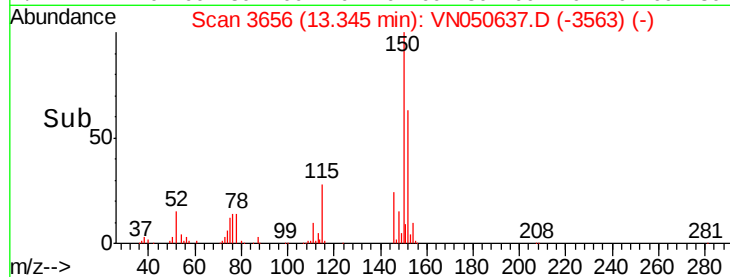
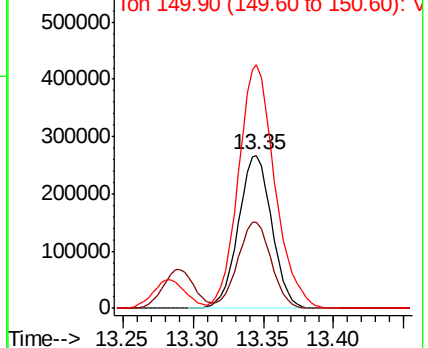
150 173.5 0.0 347.8

Manual Integrations  
APPROVED

MMDadoda  
8/15/2018 3:32:49 PM



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 52.19 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050637.D

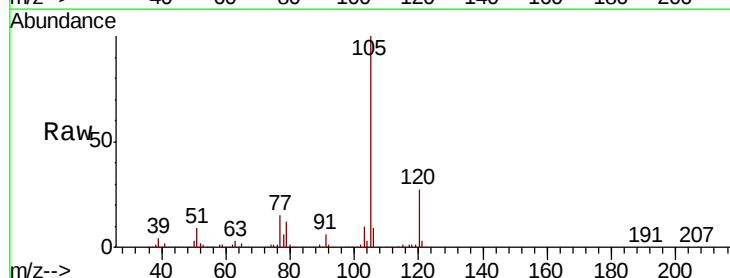
Acq: 15 Aug 2018 6:23

Tgt Ion:105 Resp: 1802332

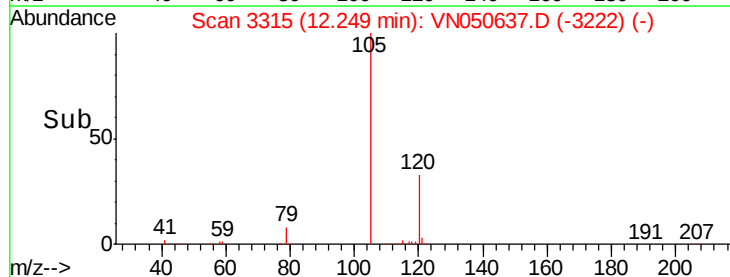
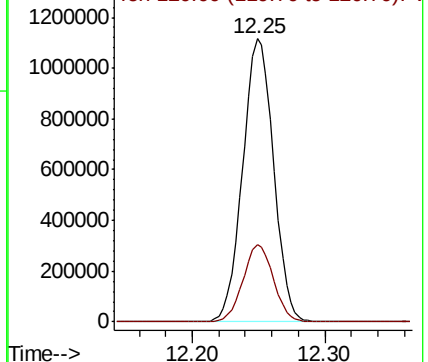
Ion Ratio Lower Upper

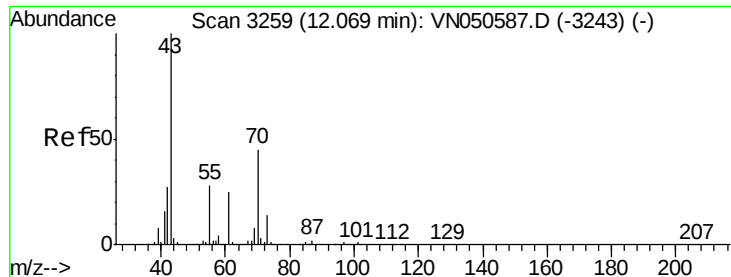
105 100

120 26.9 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#74

N-amyl acetate

Concen: 49.40 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

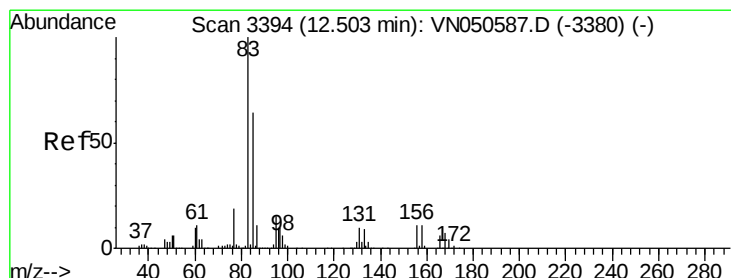
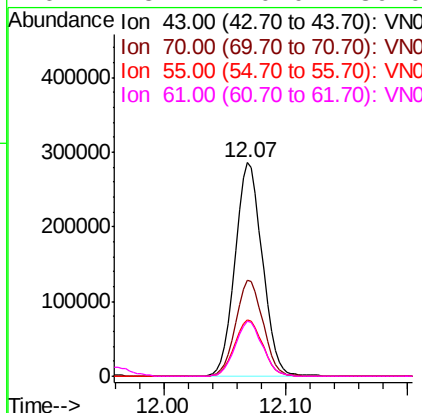
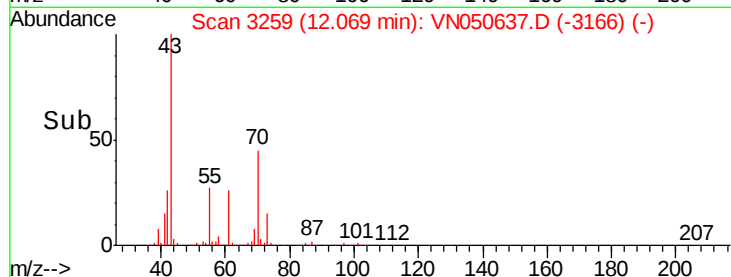
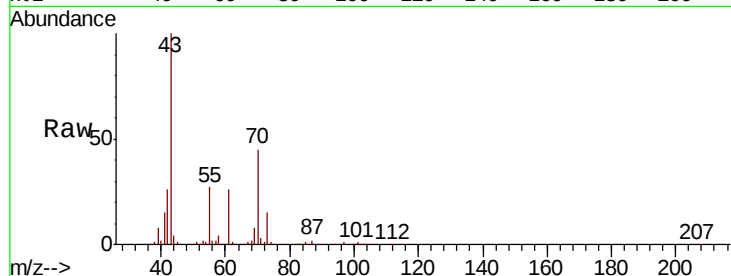
ClientSampleId :

944-MW-05(17)MSD

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 43      | 100  |       |      |       |       |
| 70      | 44.9 | 35.9  | 53.9 |       |       |
| 55      | 27.4 | 22.2  | 33.4 |       |       |
| 61      | 25.7 | 20.0  | 30.0 |       |       |

Manual Integrations  
APPROVED

MMDadoda  
8/15/2018 3:32:49 PM



#75

1,1,2,2-Tetrachloroethane

Concen: 52.63 ug/l

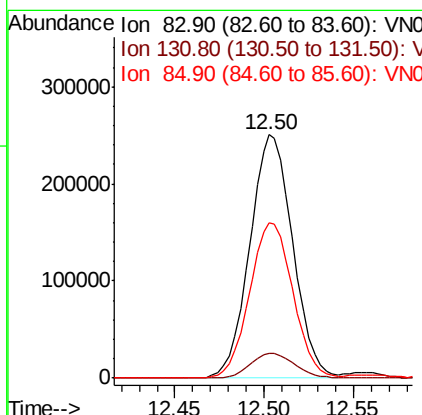
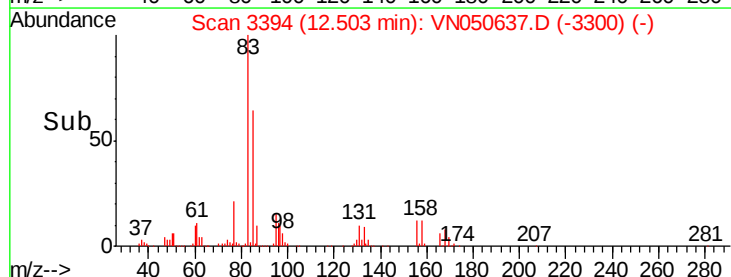
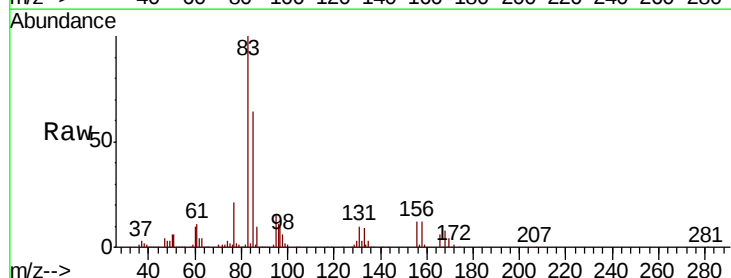
RT: 12.50 min Scan# 3394

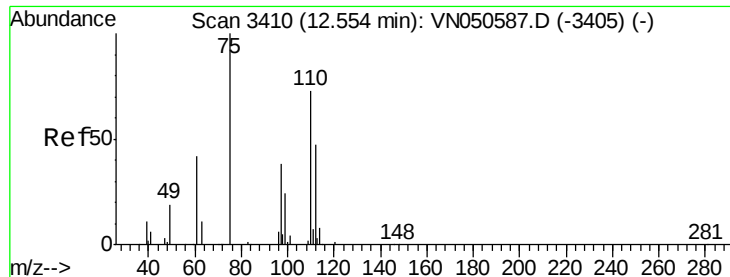
Delta R.T. 0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 83      | 100  |       |      |       |       |
| 131     | 10.6 | 5.3   | 15.9 |       |       |
| 85      | 64.6 | 32.1  | 96.5 |       |       |





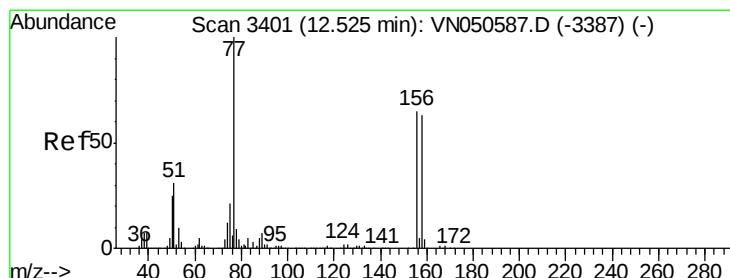
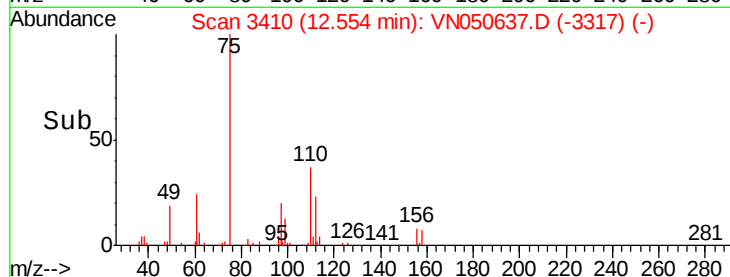
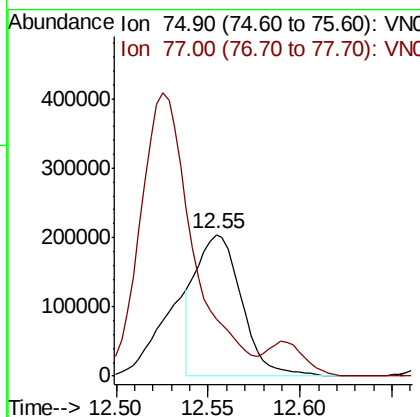
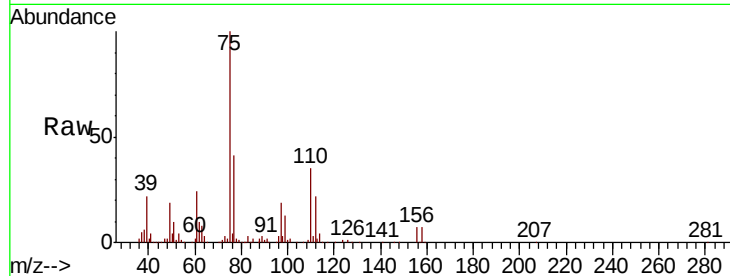
#76  
 1,2,3-Trichloropropane  
 Concen: 49.08 ug/l m  
 RT: 12.55 min Scan# 3410  
 Delta R.T. 0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 944-MW-05(17)MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 75      | 100   | 350664 |       |       |
| 77      | 0.0   | 0.0    | 0.0   | 0.0   |

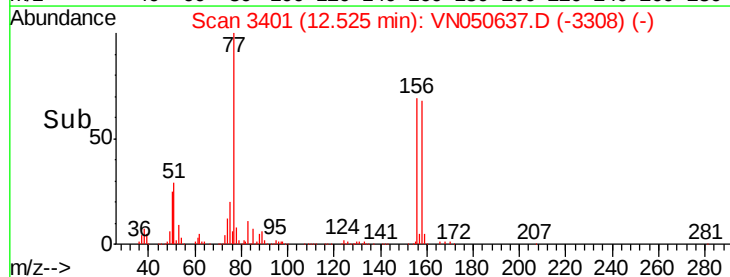
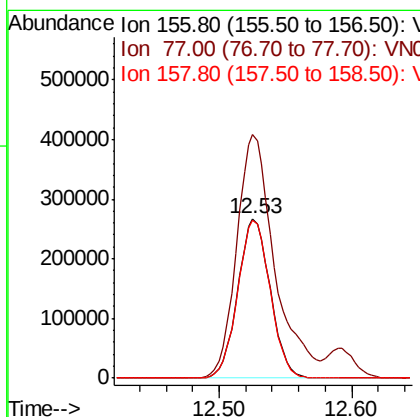
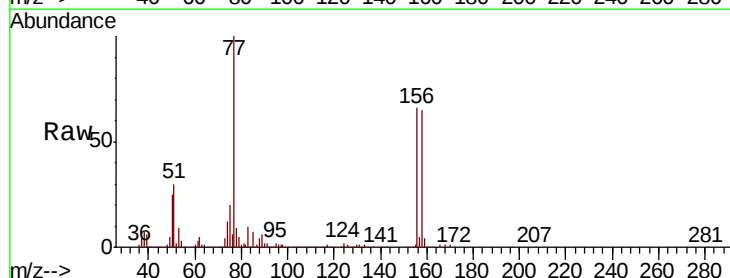
Manual Integrations  
 APPROVED

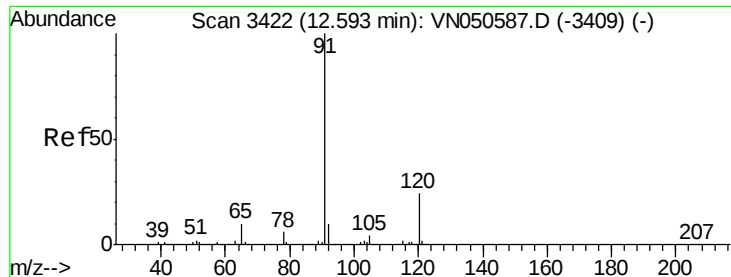
MMDadoda  
 8/15/2018 3:32:49 PM



#77  
 Bromobenzene  
 Concen: 48.33 ug/l  
 RT: 12.53 min Scan# 3401  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 156     | 100   | 453207 |       |       |
| 77      | 180.0 | 89.0   | 267.1 |       |
| 158     | 99.0  | 48.5   | 145.6 |       |





#78

n-propylbenzene

Concen: 52.47 ug/l

RT: 12.59 min Scan# 3422

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

ClientSampleId :

944-MW-05(17)MSD

Tot Ion: 91 Resp: 2020730

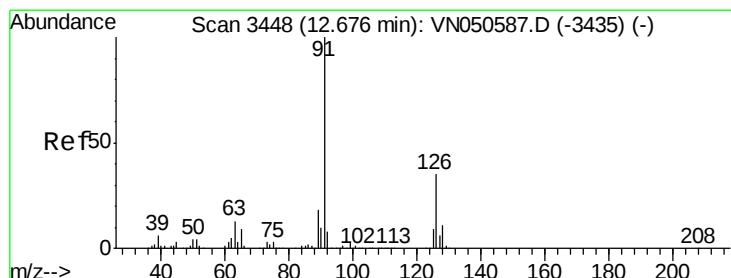
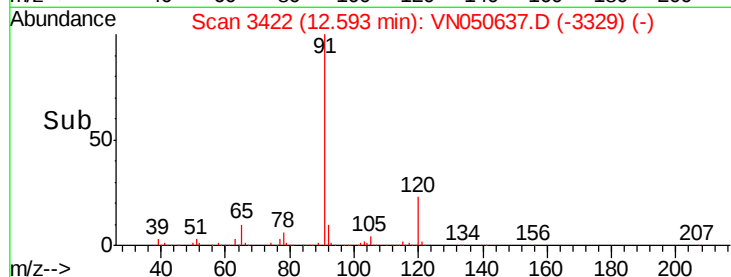
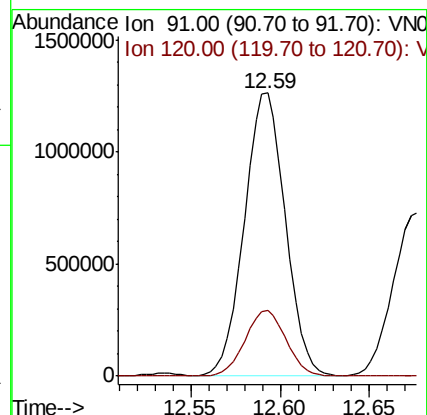
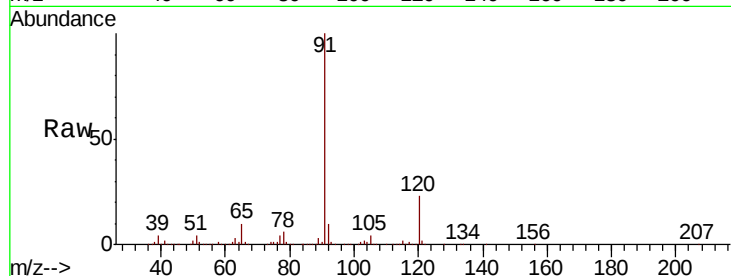
Ion Ratio Lower Upper

91 100

120 23.4 11.8 35.4

Manual Integrations  
APPROVED

MMDadoda  
8/15/2018 3:32:49 PM



#79

2-Chlorotoluene

Concen: 50.37 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. -0.00 min

Lab File: VN050637.D

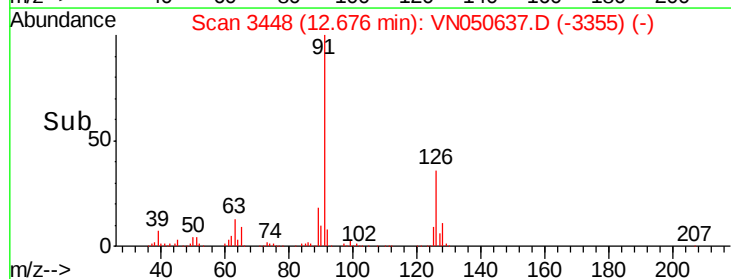
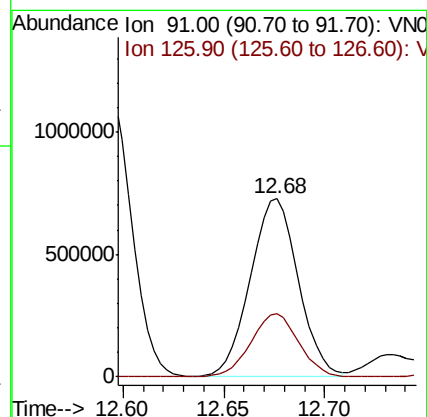
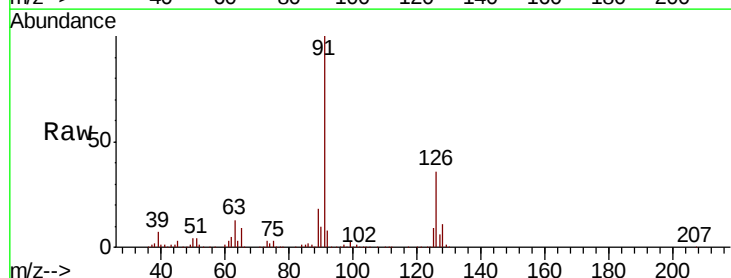
Acq: 15 Aug 2018 6:23

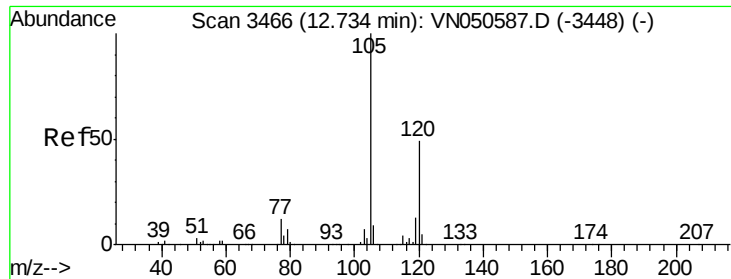
Tgt Ion: 91 Resp: 1209539

Ion Ratio Lower Upper

91 100

126 35.4 17.6 52.8





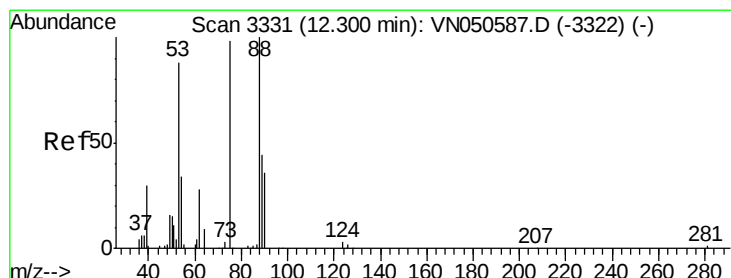
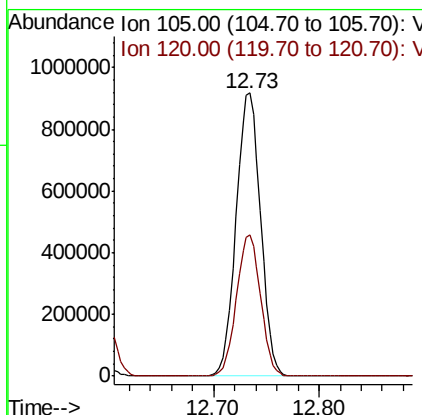
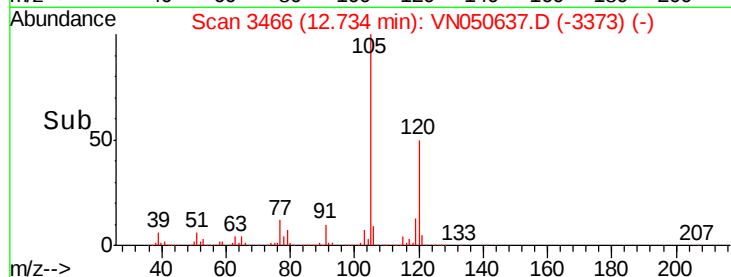
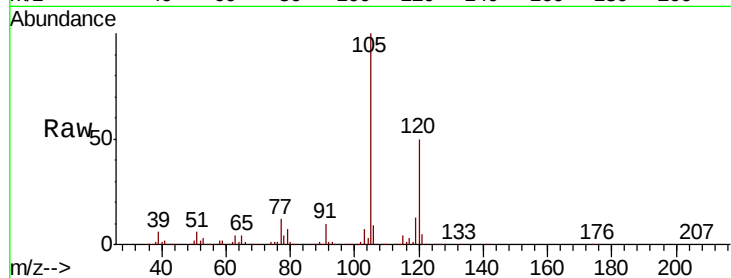
#80  
 1,3,5-Trimethylbenzene  
 Concen: 53.12 ug/l  
 RT: 12.73 min Scan# 3466  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 944-MW-05(17)MSD

Tot Ion:105 Resp: 1468933  
 Ion Ratio Lower Upper  
 105 100  
 120 49.2 24.7 74.1

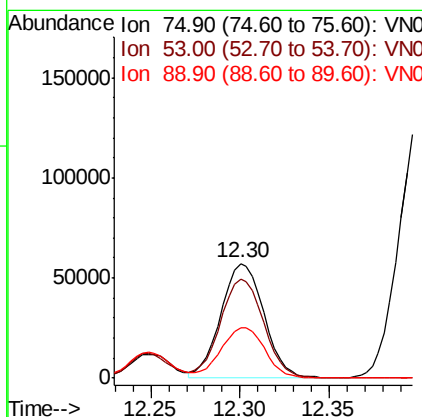
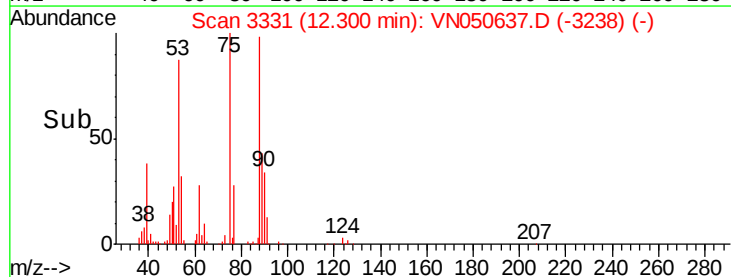
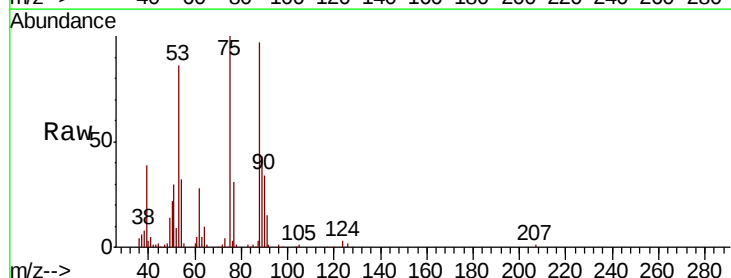
Manual Integrations  
 APPROVED

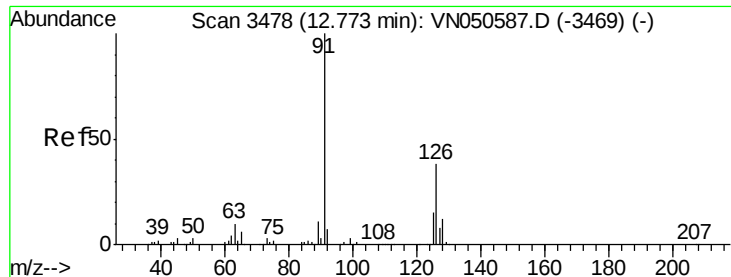
MMDadoda  
 8/15/2018 3:32:49 PM



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 48.46 ug/l  
 RT: 12.30 min Scan# 3331  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

Tgt Ion: 75 Resp: 96357  
 Ion Ratio Lower Upper  
 75 100  
 53 87.4 72.2 108.2  
 89 44.3 36.3 54.5





#82

4-Chlorotoluene

Concen: 51.45 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

ClientSampleId :

944-MW-05(17)MSD

Tot Ion: 91 Resp: 1220735

Ion Ratio Lower Upper

91 100

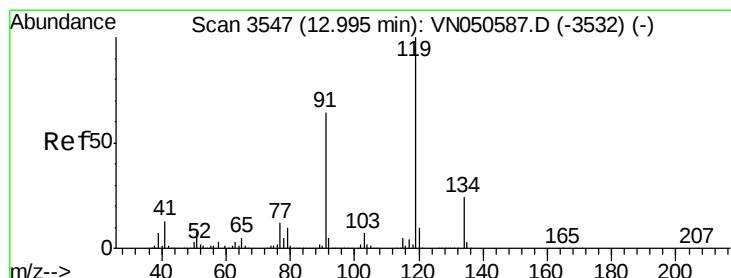
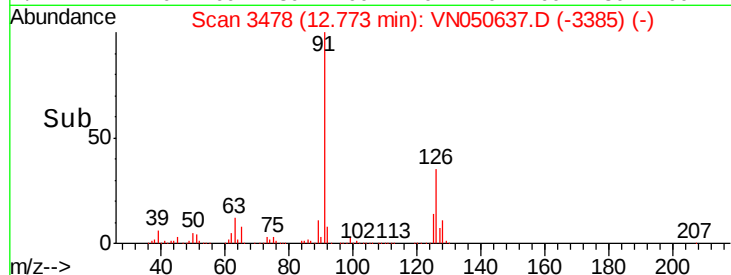
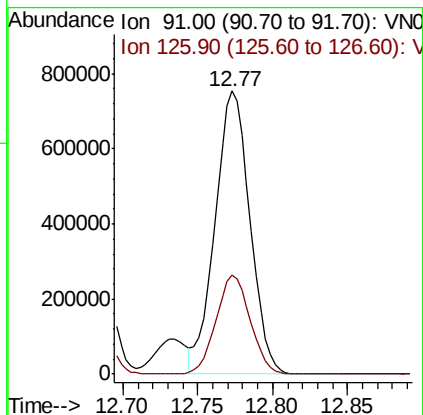
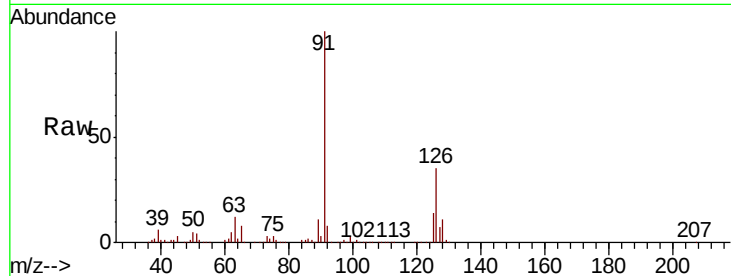
126 34.4 17.3 52.0

Manual Integrations

APPROVED

MMDadoda

8/15/2018 3:32:49 PM



#83

tert-Butylbenzene

Concen: 52.74 ug/l

RT: 12.99 min Scan# 3547

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

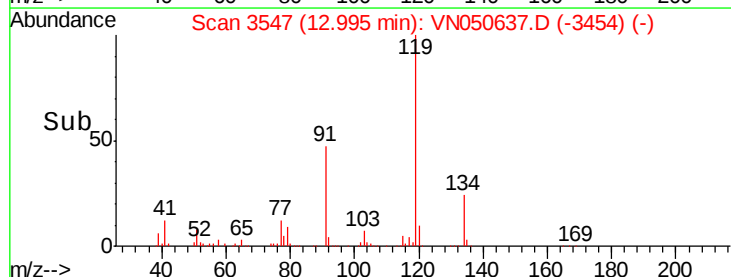
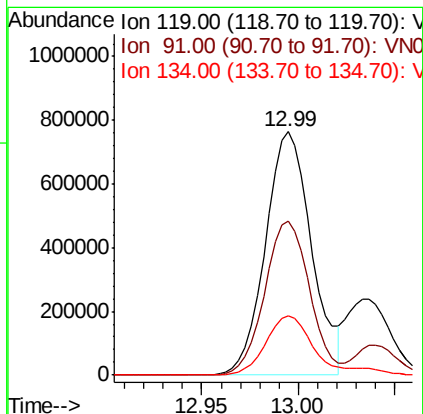
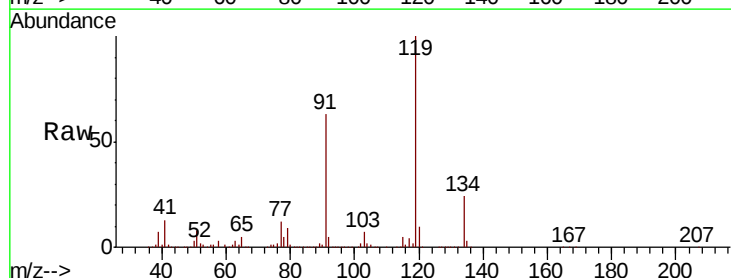
Tgt Ion: 119 Resp: 1265992

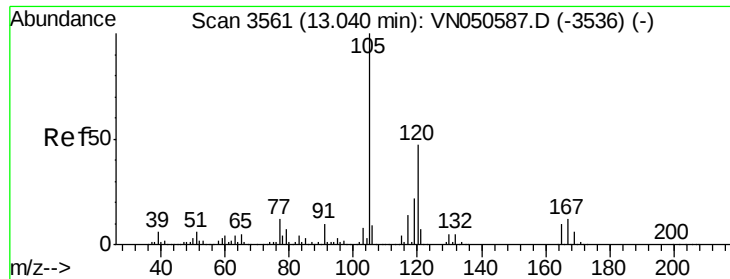
Ion Ratio Lower Upper

119 100

91 62.2 32.2 96.6

134 26.3 13.4 40.2





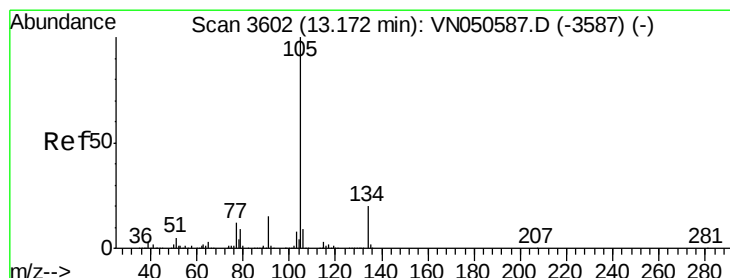
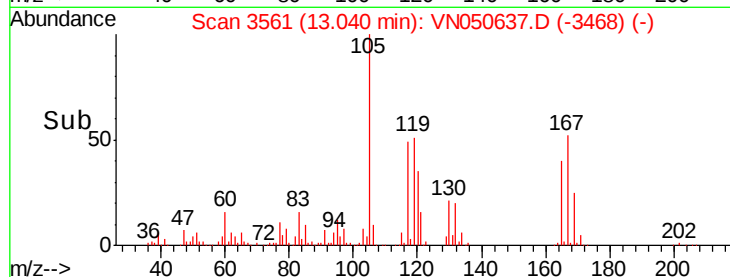
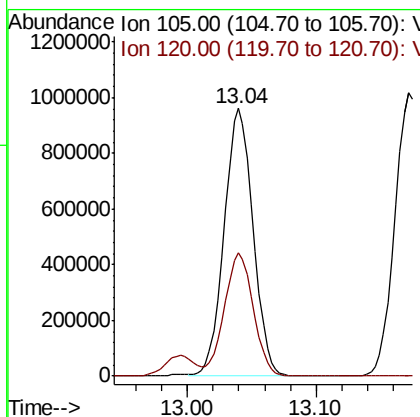
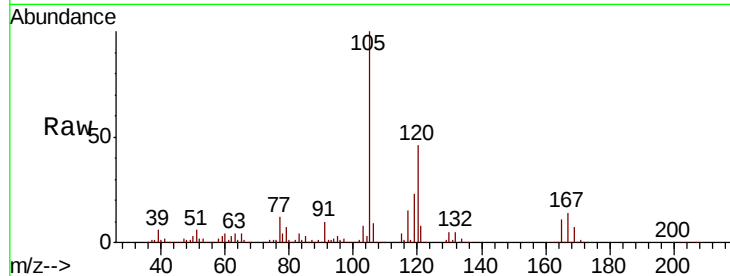
#84  
 1,2,4-Trimethylbenzene  
 Concen: 53.64 ug/l  
 RT: 13.04 min Scan# 3561  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 944-MW-05(17)MSD

Tot Ion:105 Resp: 1488887  
 Ion Ratio Lower Upper  
 105 100  
 120 46.3 23.2 69.5

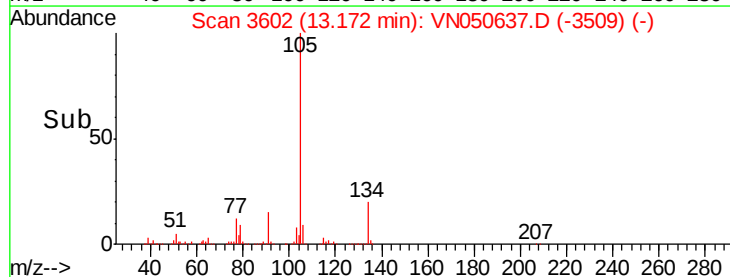
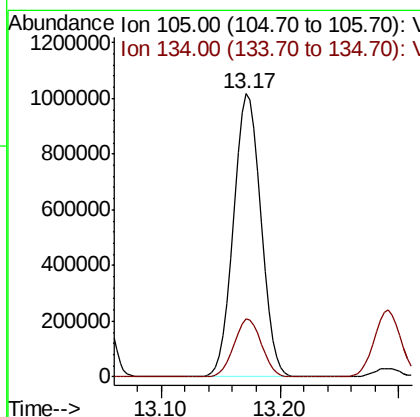
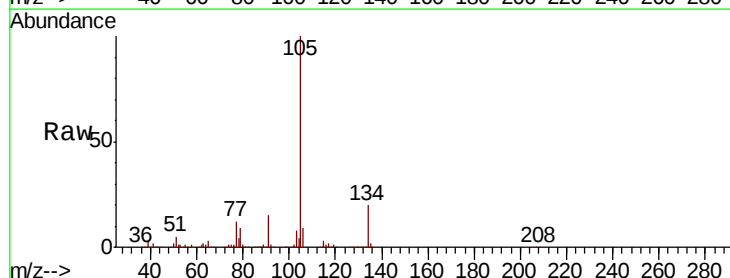
Manual Integrations  
 APPROVED

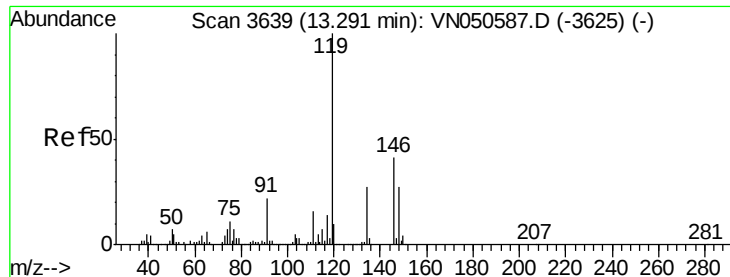
MMDadoda  
 8/15/2018 3:32:49 PM



#85  
 sec-Butylbenzene  
 Concen: 51.83 ug/l  
 RT: 13.17 min Scan# 3602  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

Tgt Ion:105 Resp: 1625727  
 Ion Ratio Lower Upper  
 105 100  
 134 20.5 10.1 30.3





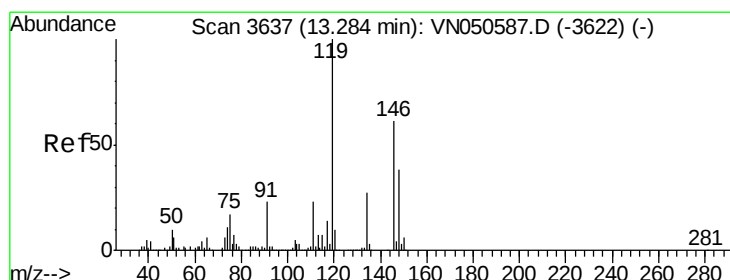
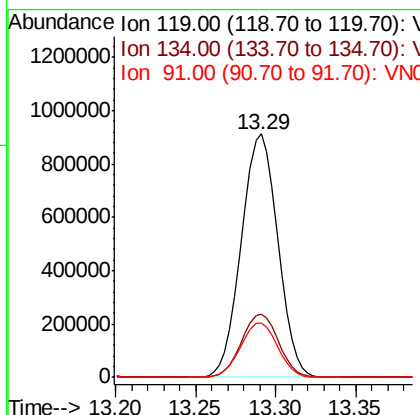
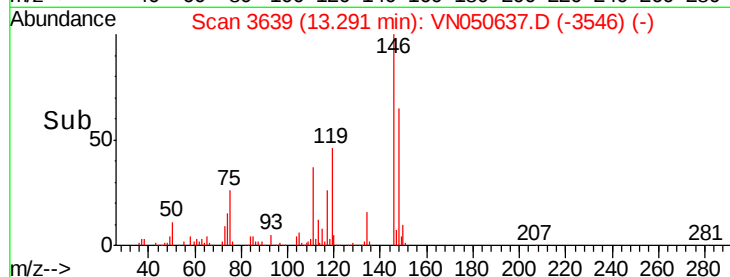
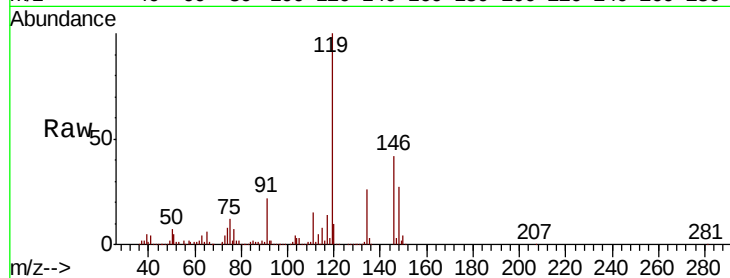
#86  
 p-Isopropyltoluene  
 Concen: 53.28 ug/l  
 RT: 13.29 min Scan# 3639  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 944-MW-05(17)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.3  | 13.5  | 40.4  |
| 91      | 22.5  | 11.2  | 33.6  |

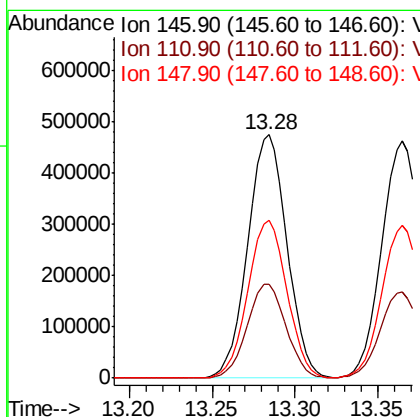
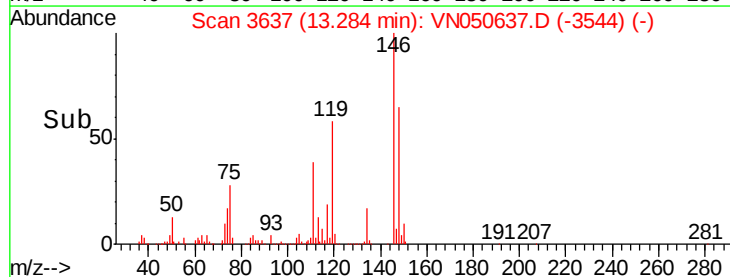
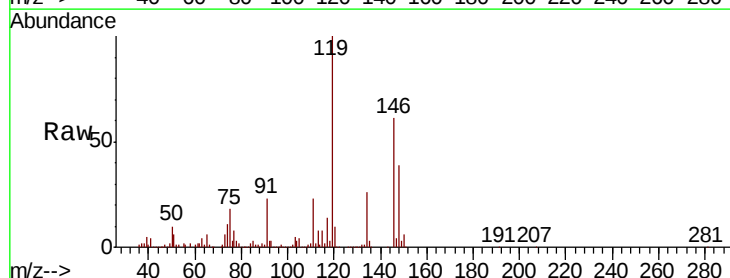
Manual Integrations  
 APPROVED

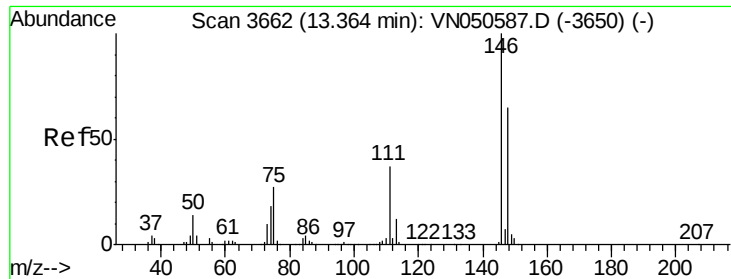
MMDadoda  
 8/15/2018 3:32:49 PM



#87  
 1,3-Dichlorobenzene  
 Concen: 48.82 ug/l  
 RT: 13.28 min Scan# 3637  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.3  | 19.2  | 57.6  |
| 148     | 64.7  | 31.9  | 95.7  |





#88

1,4-Dichlorobenzene

Concen: 47.94 ug/l

RT: 13.36 min Scan# 3662

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

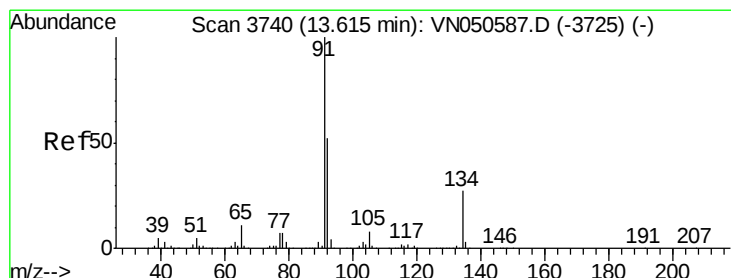
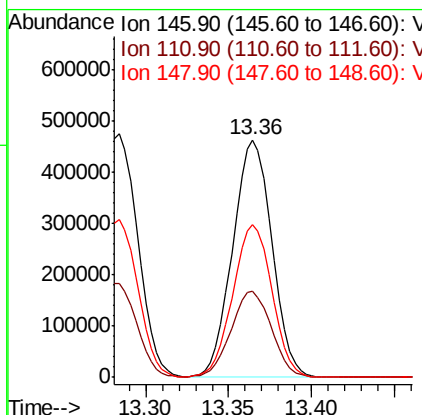
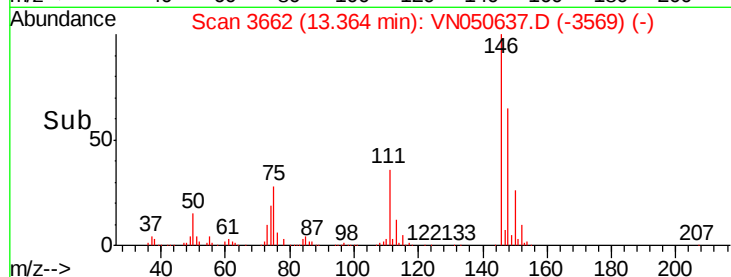
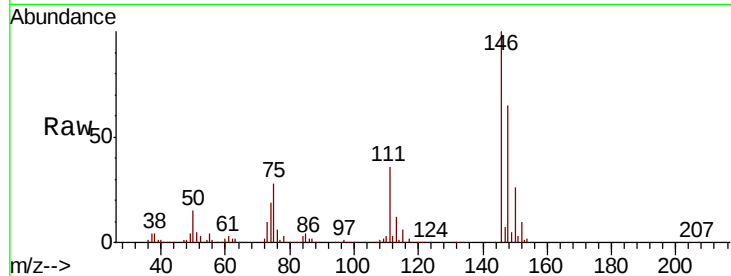
ClientSampleId :

944-MW-05(17)MSD

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 146   | Resp: | 759466 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 37.4  | 18.8  | 56.4   |
| 148       | 64.5  | 32.3  | 96.8   |

Manual Integrations  
APPROVED

MMDadoda  
8/15/2018 3:32:49 PM



#89

n-Butylbenzene

Concen: 51.26 ug/l

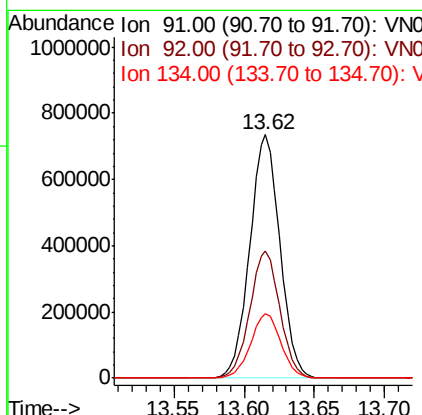
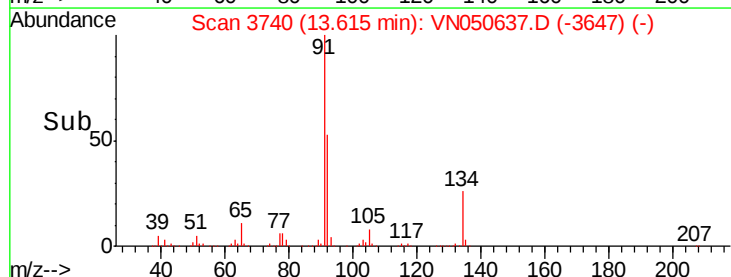
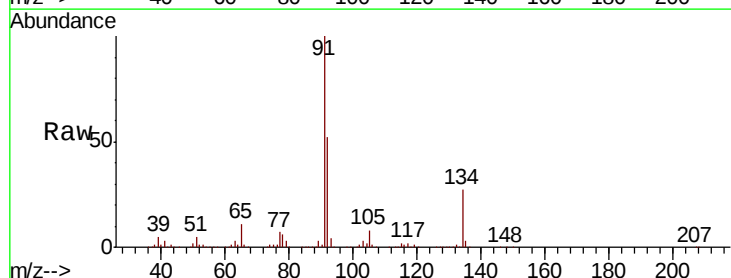
RT: 13.62 min Scan# 3740

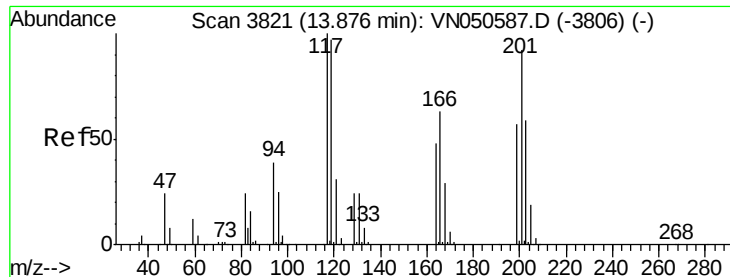
Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 91    | Resp: | 1100143 |
| Ion Ratio | Lower | Upper |         |
| 91        | 100   |       |         |
| 92        | 52.0  | 26.3  | 78.8    |
| 134       | 26.6  | 13.3  | 39.9    |





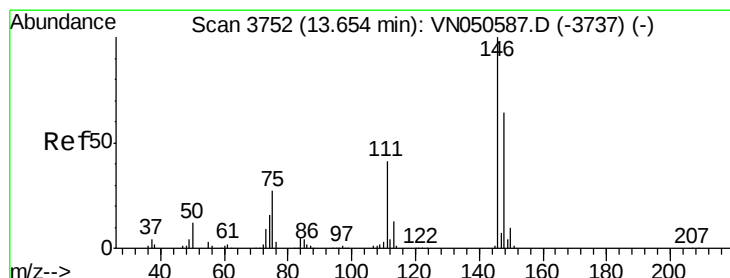
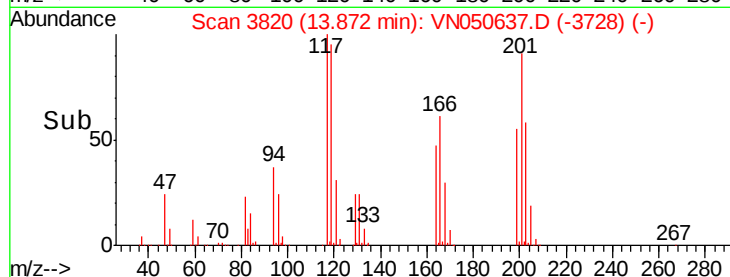
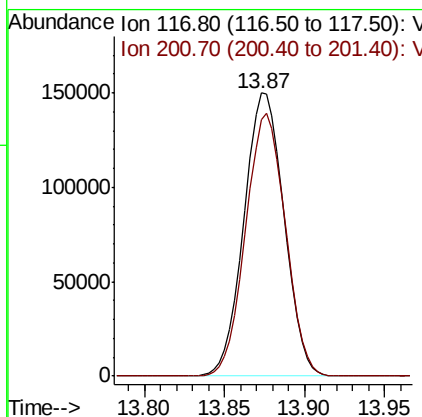
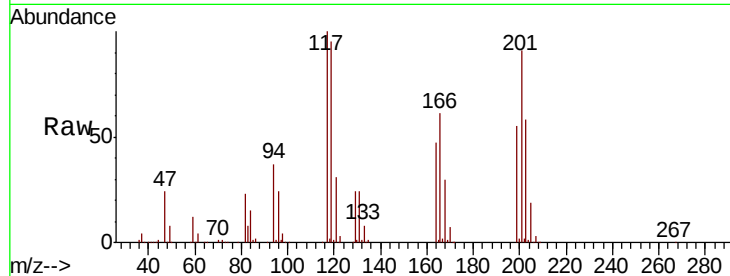
#90  
Hexachloroethane  
Concen: 48.09 ug/l  
RT: 13.87 min Scan# 3820  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

Instrument :  
MSVOA\_N  
ClientSampleId :  
944-MW-05(17)MSD

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 257037 |       |       |
| 201     | 92.0  | 45.5   | 136.5 |       |

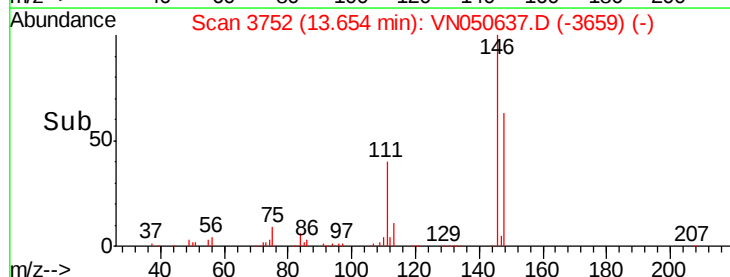
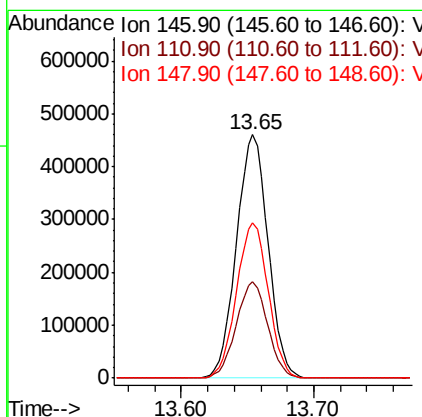
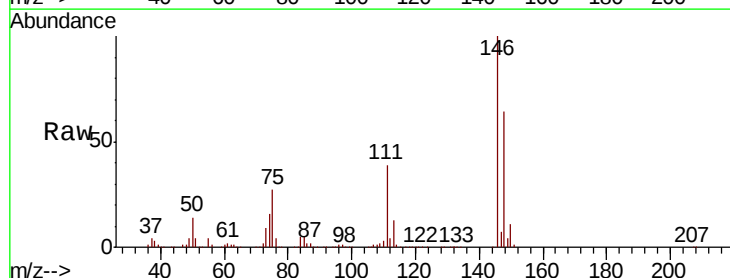
Manual Integrations  
APPROVED

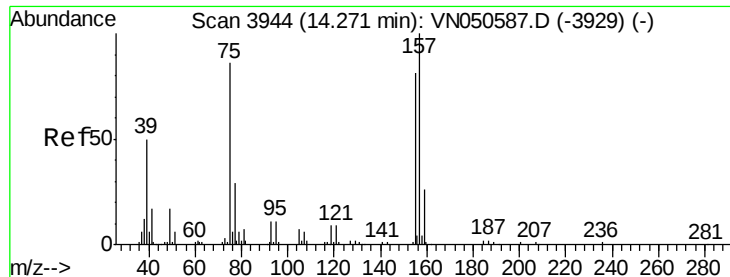
MMDadoda  
8/15/2018 3:32:49 PM



#91  
1,2-Dichlorobenzene  
Concen: 48.82 ug/l  
RT: 13.65 min Scan# 3752  
Delta R.T. -0.00 min  
Lab File: VN050637.D  
Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 146     | 100   | 760363 |       |       |
| 111     | 39.3  | 19.8   | 59.4  |       |
| 148     | 64.2  | 32.3   | 96.8  |       |





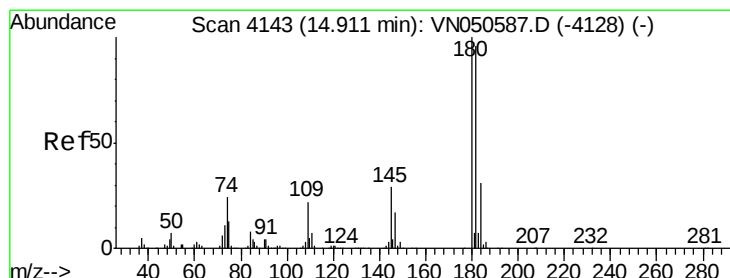
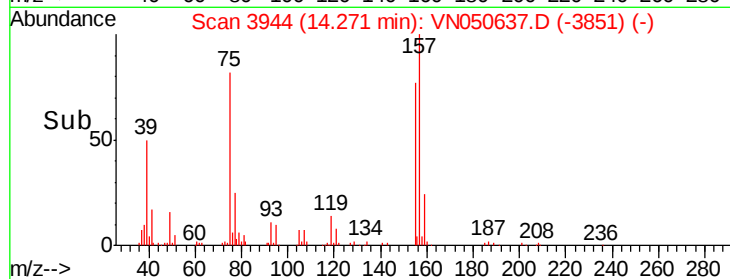
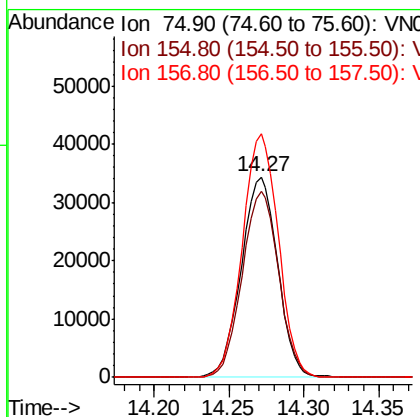
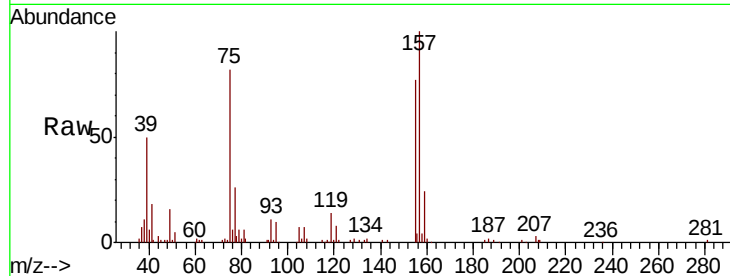
#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 47.38 ug/l  
 RT: 14.27 min Scan# 3944  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 944-MW-05(17)MSD

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 92.7  | 46.6  | 139.8 |
| 157     | 120.1 | 58.1  | 174.2 |

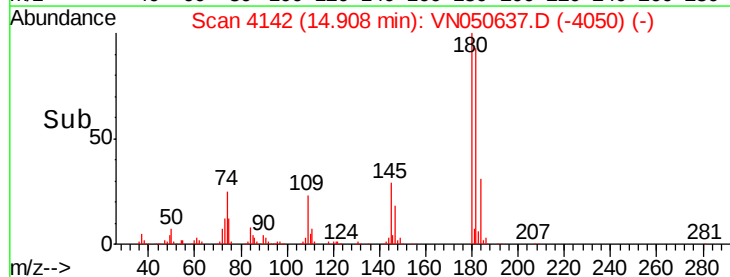
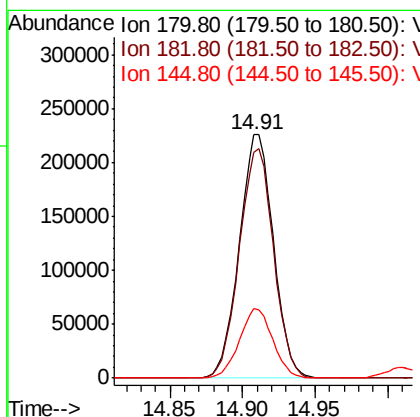
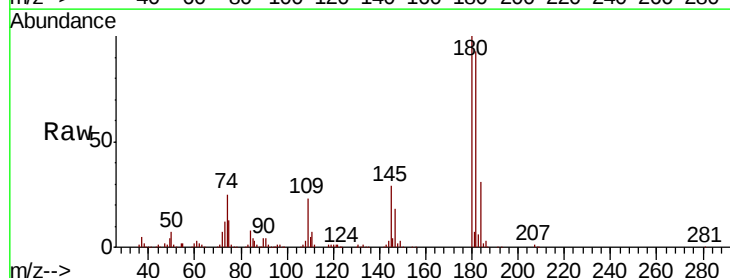
Manual Integrations  
 APPROVED

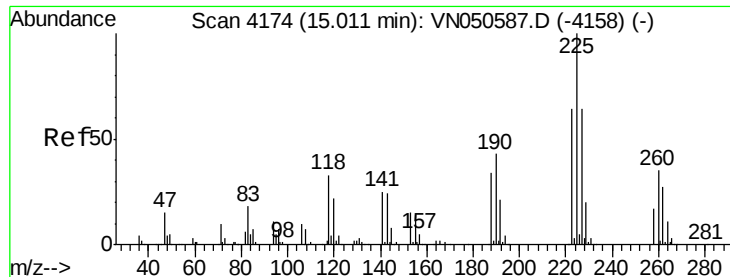
MMDadoda  
 8/15/2018 3:32:49 PM



#93  
 1,2,4-Trichlorobenzene  
 Concen: 46.42 ug/l  
 RT: 14.91 min Scan# 4142  
 Delta R.T. -0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.7  | 47.9  | 143.7 |
| 145     | 28.0  | 14.4  | 43.4  |





#94

Hexachlorobutadiene

Concen: 45.37 ug/l

RT: 15.01 min Scan# 4174

Delta R.T. -0.00 min

Lab File: VN050637.D

Acq: 15 Aug 2018 6:23

Instrument :

MSVOA\_N

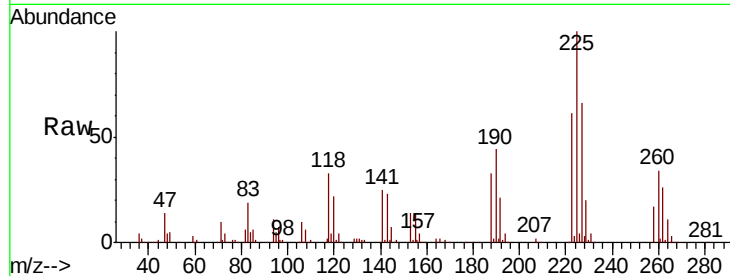
ClientSampleId :

944-MW-05(17)MSD

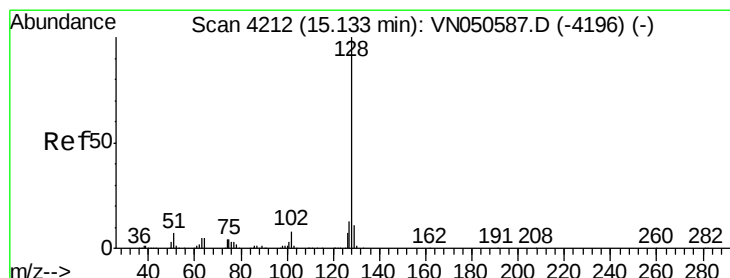
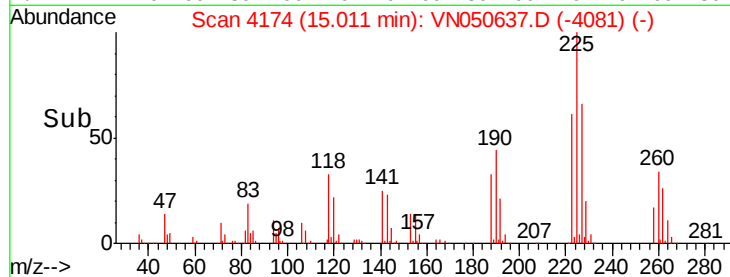
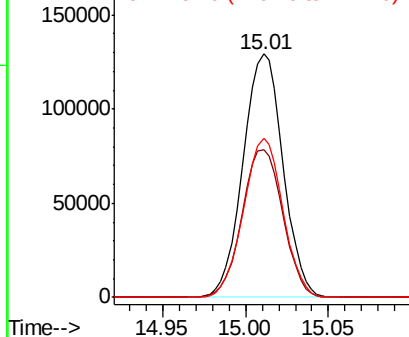
|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 225  | Resp: | 216619 |
| Ion Ratio |      | Lower | Upper  |
| 225       | 100  |       |        |
| 223       | 61.8 | 32.1  | 96.3   |
| 227       | 64.4 | 32.0  | 96.2   |

Manual Integrations  
APPROVED

MMDadoda  
8/15/2018 3:32:49 PM



Abundance Ion 224.70 (224.40 to 225.40): V  
Ion 222.70 (222.40 to 223.40): V  
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 46.08 ug/l

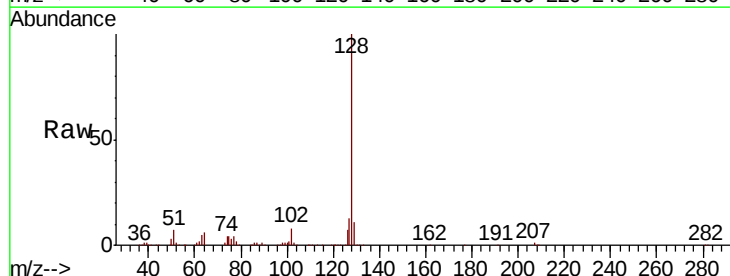
RT: 15.13 min Scan# 4212

Delta R.T. 0.00 min

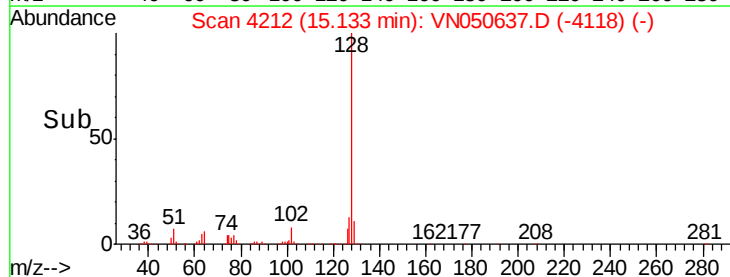
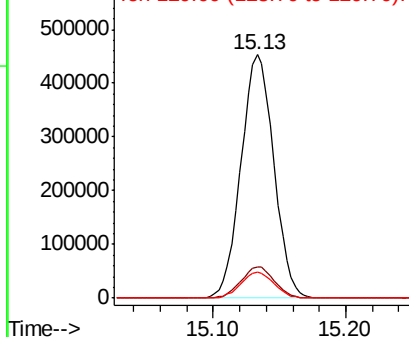
Lab File: VN050637.D

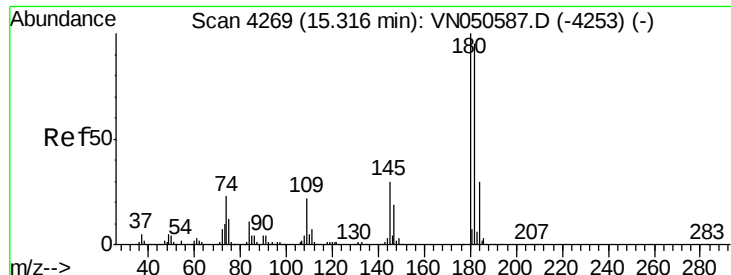
Acq: 15 Aug 2018 6:23

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 128  | Resp: | 777979 |
| Ion Ratio |      | Lower | Upper  |
| 128       | 100  |       |        |
| 127       | 13.1 | 10.3  | 15.5   |
| 129       | 10.7 | 8.5   | 12.7   |



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V





#96  
 1,2,3-Trichlorobenzene  
 Concen: 48.66 ug/l  
 RT: 15.32 min Scan# 4269  
 Delta R.T. 0.00 min  
 Lab File: VN050637.D  
 Acq: 15 Aug 2018 6:23

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 944-MW-05(17)MSD

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 180     | 100   |            |       |
| 182     | 94.8  | 47.3       | 141.8 |
| 145     | 30.2  | 14.6       | 44.0  |

Manual Integrations  
 APPROVED

MMDadoda  
 8/15/2018 3:32:49 PM

