

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092320\  
 Data File : VN063597.D  
 Acq On : 23 Sep 2020 18:30  
 Operator : JC/MD  
 Sample : L4083-02  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE120D2-20200916

Manual Integrations  
 APPROVED

MMDadoda  
 9/24/2020 1:38:01 PM

Quant Time: Sep 24 04:01:17 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 16 13:05:20 2020  
 Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|-------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene         | 7.63  | 168  | 207543   | 50.00   | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.55  | 114  | 375631   | 50.00   | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 11.38 | 117  | 393084   | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.32 | 152  | 163665   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds   |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4     | 7.99  | 65   | 176754   | 50.03   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 100.06% |          |
| 35) Dibromofluoromethane      | 7.55  | 113  | 128822   | 49.54   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 99.08%  |          |
| 50) Toluene-d8                | 10.06 | 98   | 495582   | 50.68   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 101.36% |          |
| 62) 4-Bromofluorobenzene      | 12.38 | 95   | 191441   | 53.41   | ug/l    | 0.00     |
| Spiked Amount 50.000          |       |      | Recovery | =       | 106.82% |          |
| Target Compounds              |       |      |          |         |         |          |
|                               |       |      |          |         | Qvalue  |          |
| 2) Dichlorodifluoromethane    | 1.83  | 85   | 1327     | 0.564   | ug/l    | 86       |
| 3) Chloromethane              | 2.04  | 50   | 2394     | 0.770   | ug/l    | 98       |
| 9) 1,1,2-Trichlorotrifluoroet | 3.73  | 101  | 70974    | 30.694  | ug/l    | 98       |
| 12) 1,1-Dichloroethene        | 3.70  | 96   | 6170     | 2.634   | ug/l    | 94       |
| 27) cis-1,2-Dichloroethene    | 6.78  | 96   | 10543    | 3.590   | ug/l    | 88       |
| 30) Chloroform                | 7.34  | 83   | 3808m    | 0.736   | ug/l    |          |
| 38) Carbon Tetrachloride      | 7.73  | 117  | 3155     | 0.772   | ug/l #  | 95       |
| 44) Trichloroethene           | 8.80  | 130  | 2088126  | 753.626 | ug/l    | 100      |
| 49) 1,4-Dioxane               | 9.16  | 88   | 811      | 16.379  | ug/l #  | 91       |
| 55) 1,1,2-Trichloroethane     | 10.53 | 97   | 1157     | 0.424   | ug/l #  | 80       |
| 64) Tetrachloroethene         | 10.60 | 164  | 17829    | 6.661   | ug/l    | 95       |

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

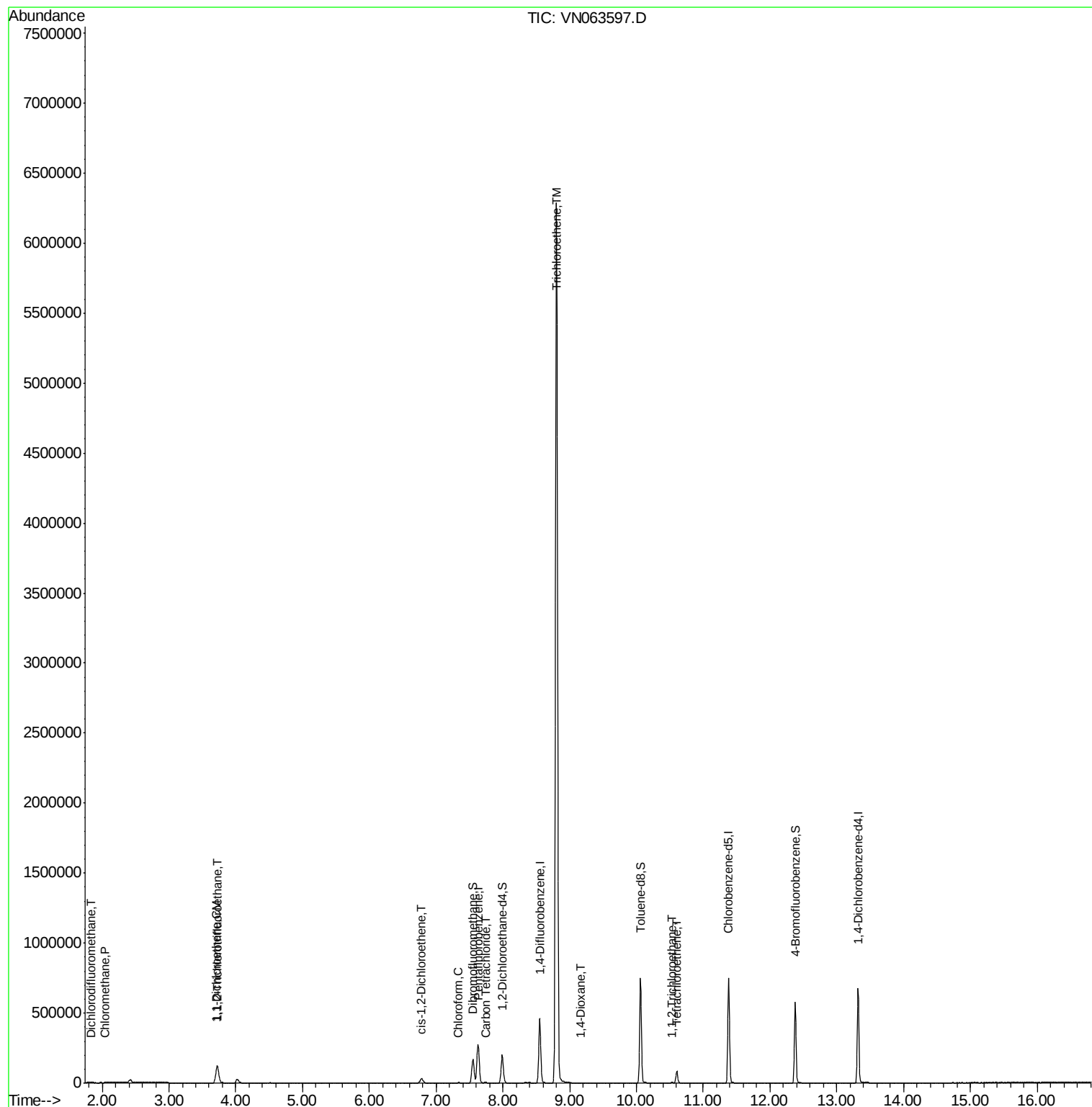
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092320\  
Data File : VN063597.D  
Acq On : 23 Sep 2020 18:30  
Operator : JC/MD  
Sample : L4083-02  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 19 Sample Multiplier: 1

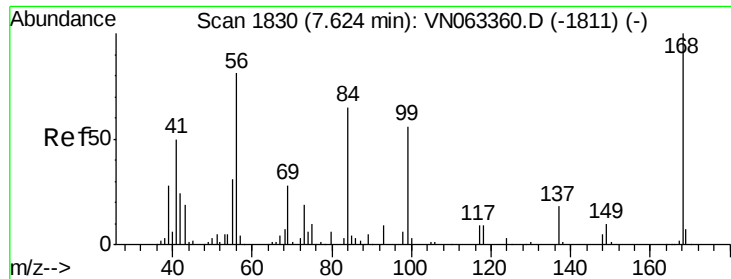
Instrument :  
MSVOA\_N  
ClientSampleId :  
RE120D2-20200916

Manual Integrations  
APPROVED

MMDadoda  
9/24/2020 1:38:01 PM

Quant Time: Sep 24 04:01:17 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N091620W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 16 13:05:20 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Instrument :

MSVOA\_N

ClientSampleId :

RE120D2-20200916

Tot Ion:168 Resp: 207543

Ion Ratio Lower Upper

168 100

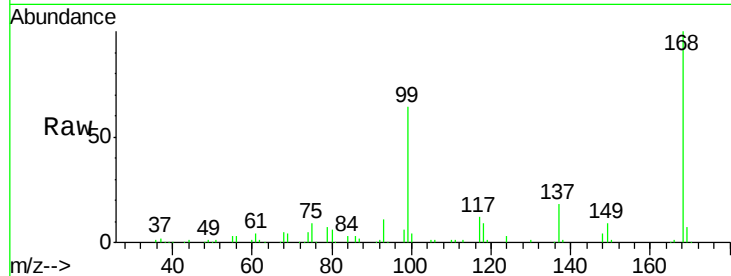
99 63.8 53.0 79.6

Manual Integrations

APPROVED

MMDadoda

9/24/2020 1:38:01 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

80000

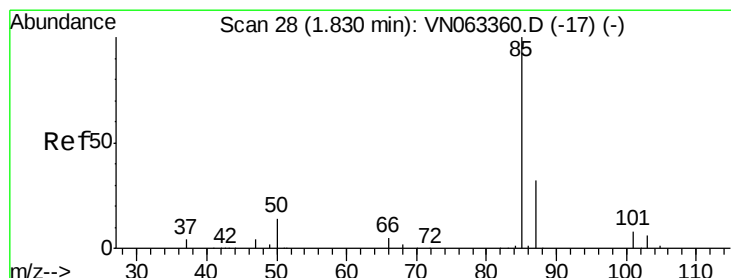
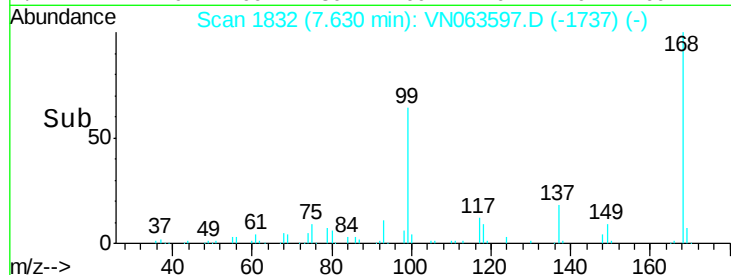
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 0.564 ug/l

RT: 1.83 min Scan# 29

Delta R.T. 0.00 min

Lab File: VN063597.D

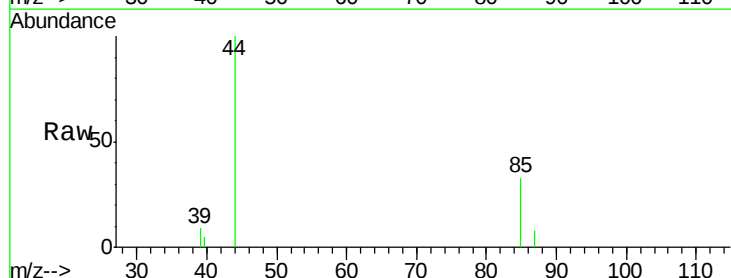
Acq: 23 Sep 2020 18:30

Tgt Ion: 85 Resp: 1327

Ion Ratio Lower Upper

85 100

87 23.9 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

1200

1000

800

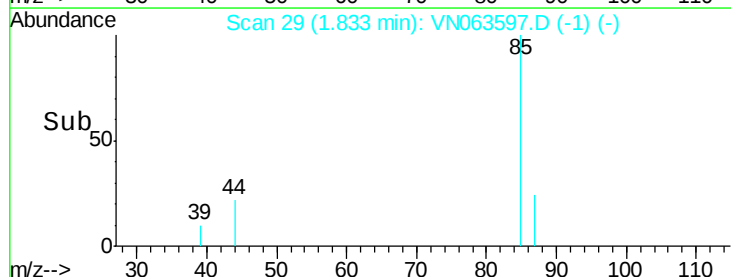
600

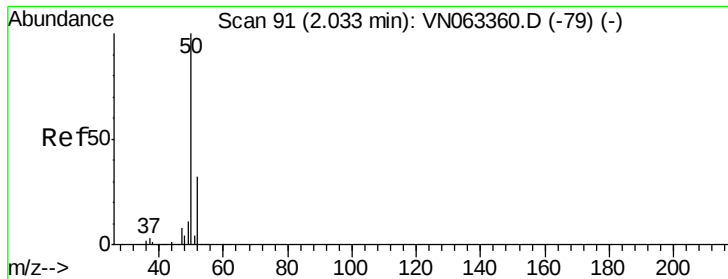
400

200

0

Time--> 1.80 1.82 1.84 1.86





#3

Chloromethane

Concen: 0.770 ug/l

RT: 2.04 min Scan# 93

Delta R.T. 0.01 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Instrument :

MSVOA\_N

ClientSampleId :

RE120D2-20200916

Tot Ion: 50 Resp: 2394

Ion Ratio Lower Upper

50 100

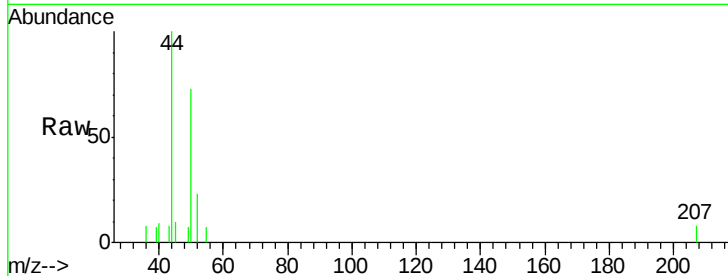
52 31.4 25.9 38.9

Manual Integrations

APPROVED

MMDadoda

9/24/2020 1:38:01 PM



Abundance Ion 49.90 (49.60 to 50.60): VN063360.D (-79) (-)

Ion 51.90 (51.60 to 52.60): VN063360.D (-79) (-)

2000

1500

1000

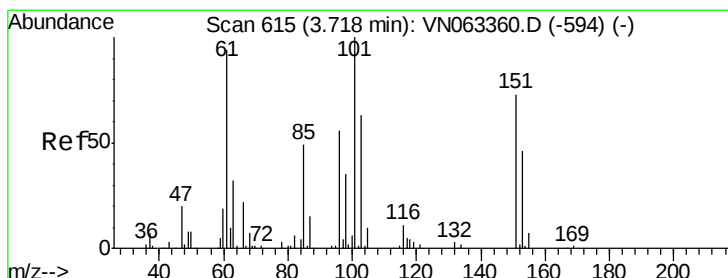
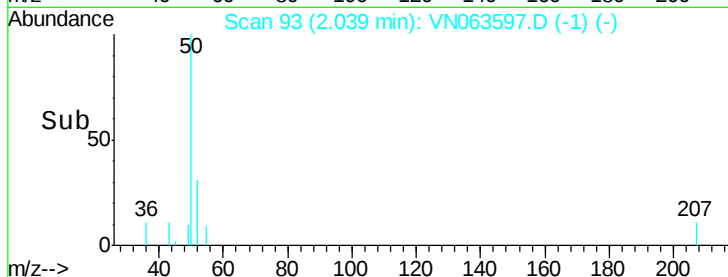
500

0

Time-->

2.00

2.05



#9

1,1,2-Trichlorotrifluoroethane

Concen: 30.694 ug/l

RT: 3.73 min Scan# 618

Delta R.T. 0.01 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

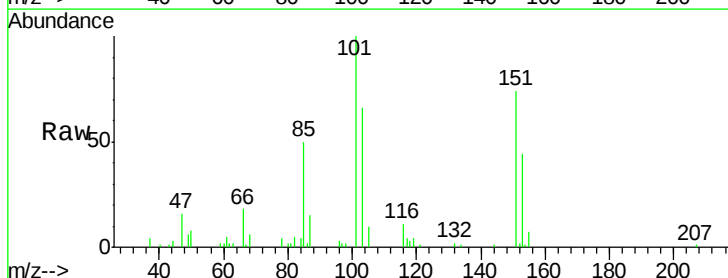
Tgt Ion: 101 Resp: 70974

Ion Ratio Lower Upper

101 100

85 48.2 37.7 56.5

151 74.1 57.7 86.5



Abundance Ion 100.90 (100.60 to 101.60): VN063360.D (-594) (-)

Ion 84.90 (84.60 to 85.60): VN063360.D (-594) (-)

Ion 150.80 (150.50 to 151.50): VN063360.D (-594) (-)

30000

25000

20000

15000

10000

5000

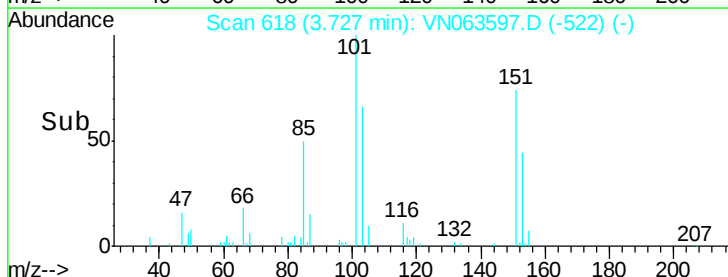
0

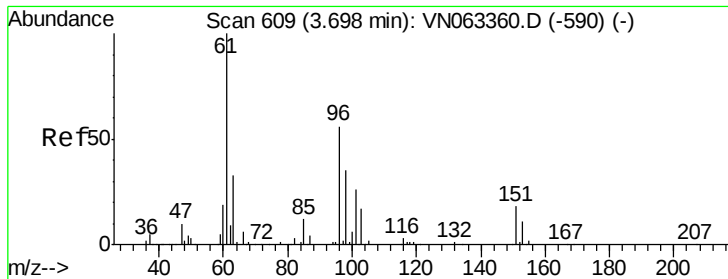
Time-->

3.60

3.70

3.80





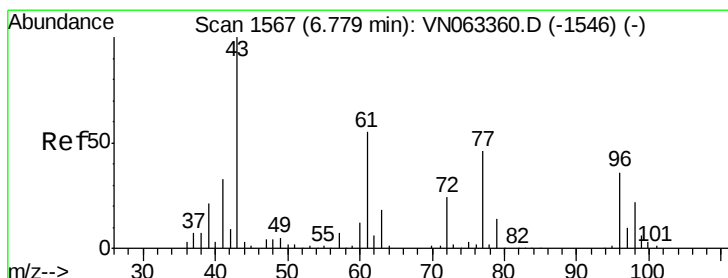
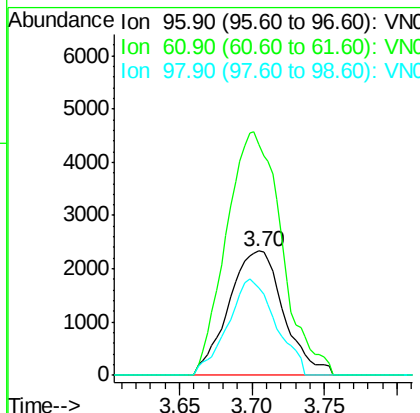
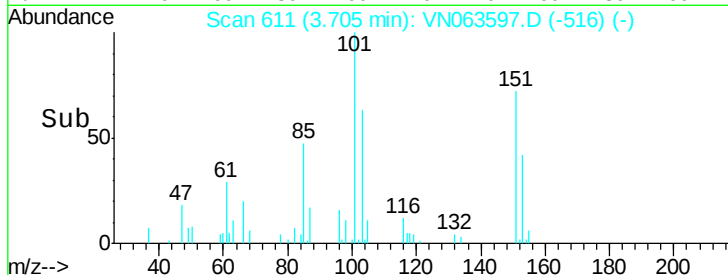
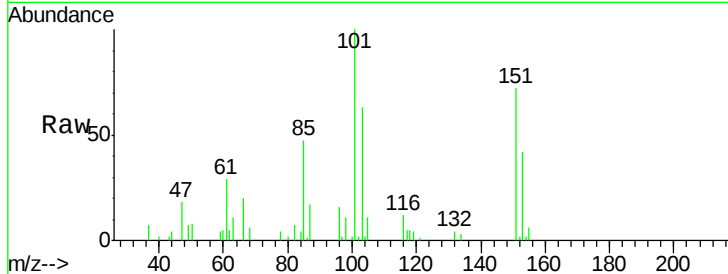
#12  
 1,1-Dichloroethene  
 Concen: 2.634 ug/l  
 RT: 3.70 min Scan# 611  
 Delta R.T. 0.01 min  
 Lab File: VN063597.D  
 Acq: 23 Sep 2020 18:30

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE120D2-20200916

| Tot Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 96      | 100   |       | 6170  |       |       |
| 61      | 185.7 |       | 143.4 | 215.2 |       |
| 98      | 70.5  |       | 50.6  | 76.0  |       |

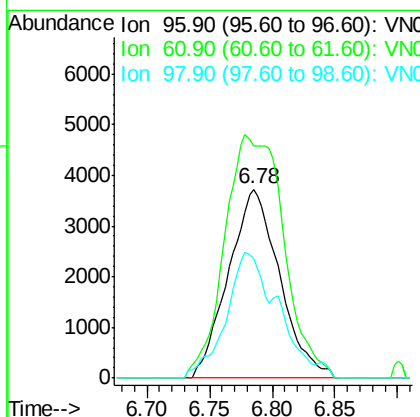
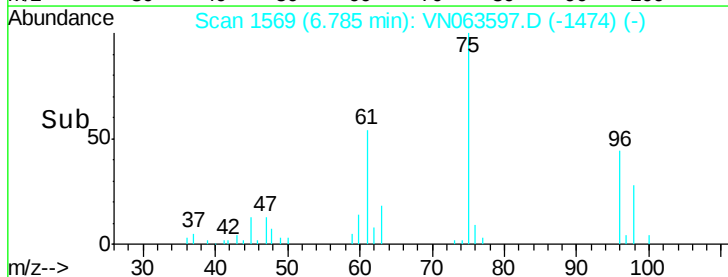
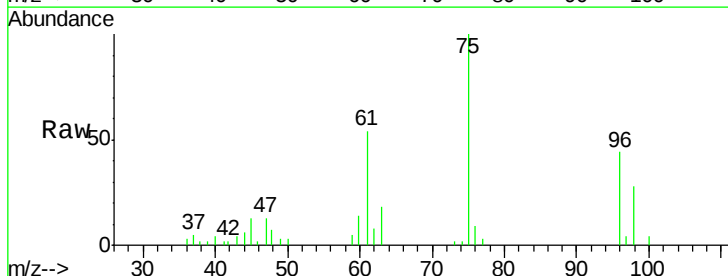
Manual Integrations  
 APPROVED

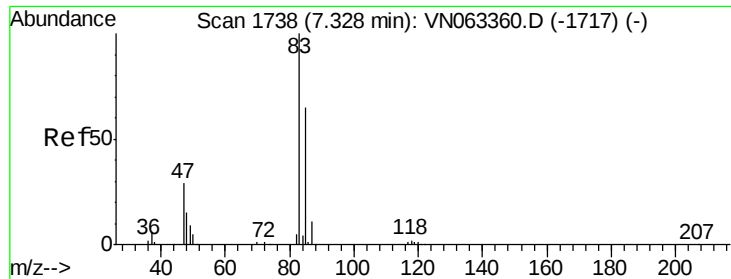
MMDadoda  
 9/24/2020 1:38:01 PM



#27  
 cis-1,2-Dichloroethene  
 Concen: 3.590 ug/l  
 RT: 6.78 min Scan# 1569  
 Delta R.T. 0.01 min  
 Lab File: VN063597.D  
 Acq: 23 Sep 2020 18:30

| Tgt Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 96      | 100   |       | 10543 |       |       |
| 61      | 148.3 |       | 0.0   | 319.6 |       |
| 98      | 49.3  |       | 0.0   | 127.8 |       |





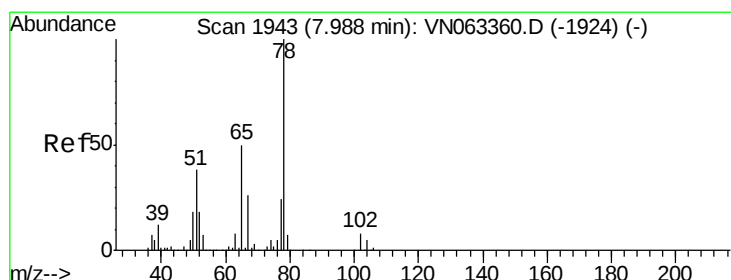
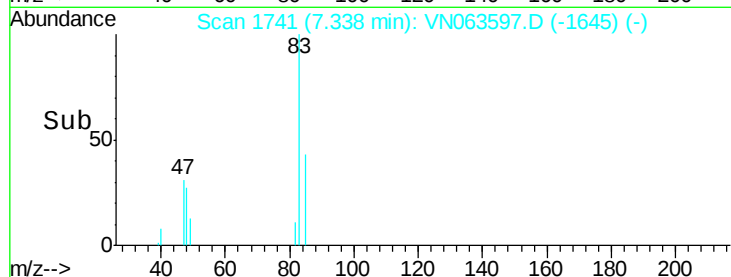
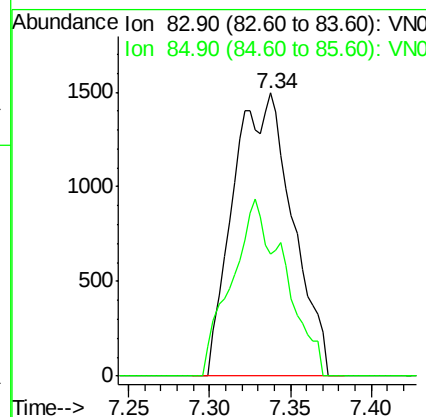
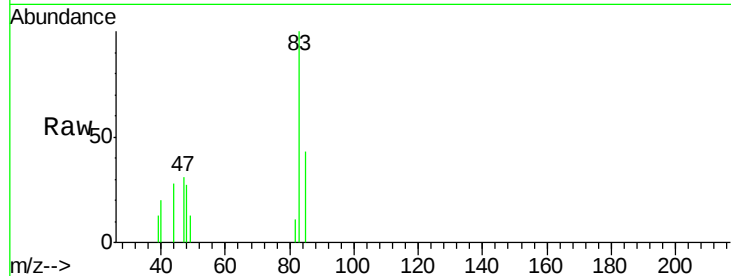
#30  
Chloroform  
Concen: 0.736 ug/l m  
RT: 7.34 min Scan# 1741  
Delta R.T. 0.01 min  
Lab File: VN063597.D  
Acq: 23 Sep 2020 18:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE120D2-20200916

| Tot Ion   | 83   | Resp  | 3808  |
|-----------|------|-------|-------|
| Ion Ratio | 100  | Lower | Upper |
| 85        | 42.9 | 52.1  | 78.1# |

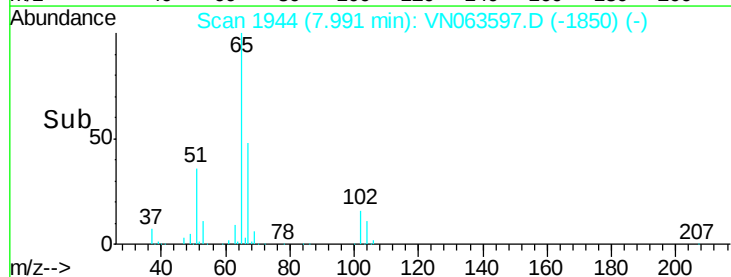
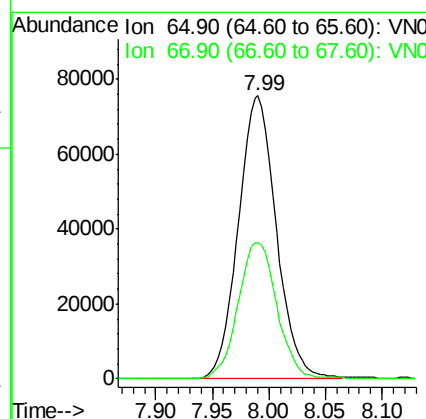
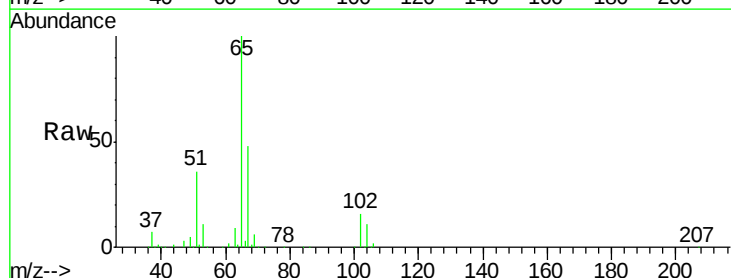
Manual Integrations  
APPROVED

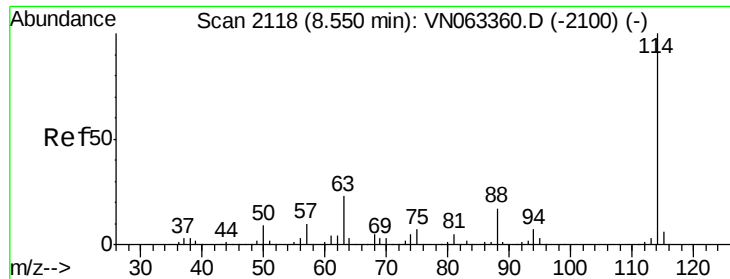
MMDadoda  
9/24/2020 1:38:01 PM



#33  
1,2-Dichloroethane-d4  
Concen: 50.030 ug/l  
RT: 7.99 min Scan# 1944  
Delta R.T. 0.00 min  
Lab File: VN063597.D  
Acq: 23 Sep 2020 18:30

| Tgt Ion   | 65   | Resp  | 176754 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 67        | 49.4 | 0.0   | 104.2  |





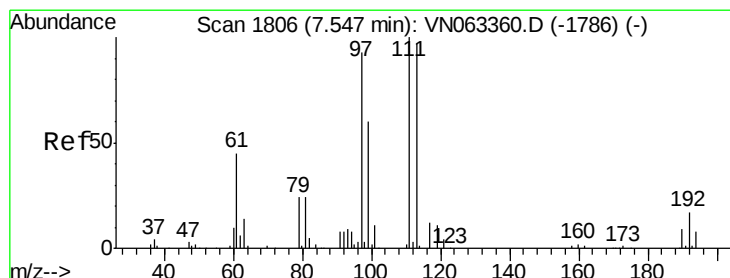
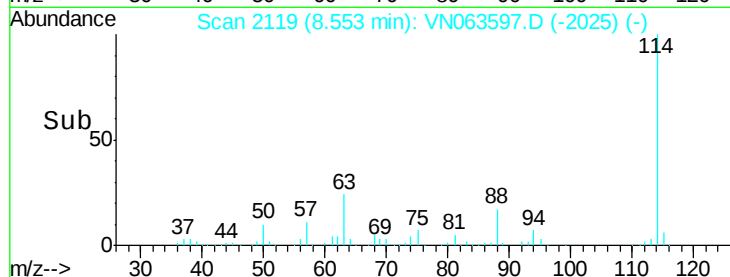
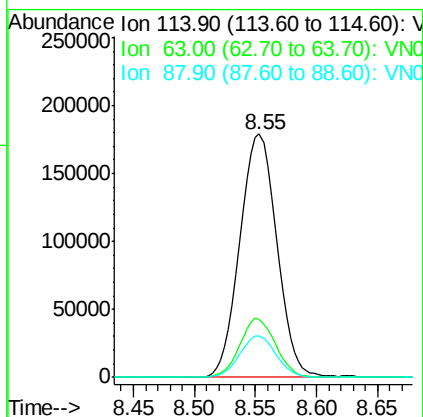
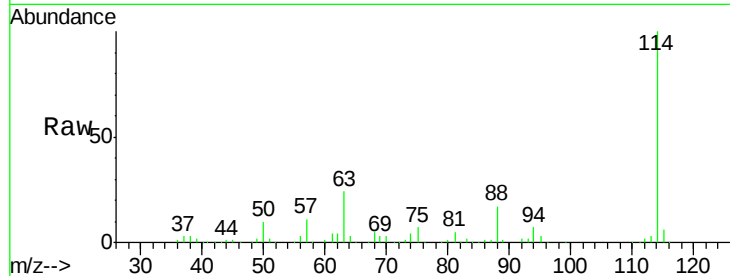
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.55 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN063597.D  
 Acq: 23 Sep 2020 18:30

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 RE120D2-20200916

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 114     | 100   | 375631 |       |       |
| 63      | 24.1  | 0.0    | 46.4  |       |
| 88      | 17.1  | 0.0    | 33.2  |       |

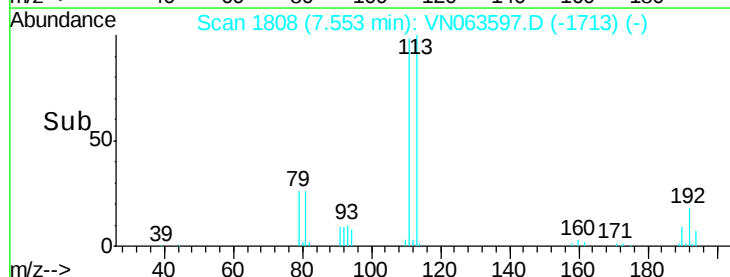
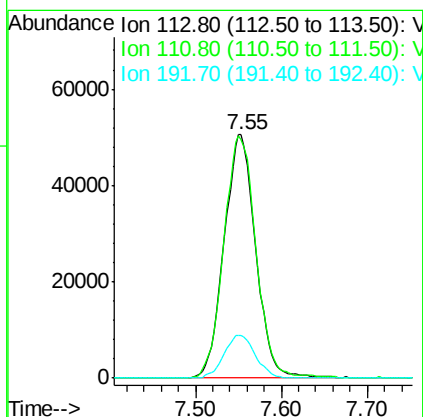
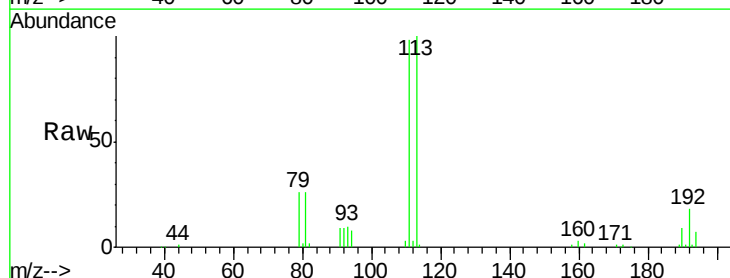
Manual Integrations  
 APPROVED

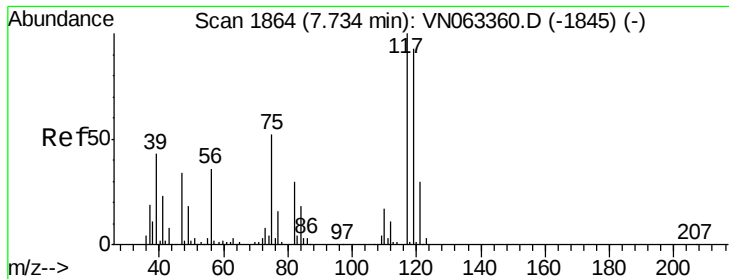
MMDadoda  
 9/24/2020 1:38:01 PM



#35  
 Dibromofluoromethane  
 Concen: 49.539 ug/l  
 RT: 7.55 min Scan# 1808  
 Delta R.T. 0.01 min  
 Lab File: VN063597.D  
 Acq: 23 Sep 2020 18:30

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 113     | 100   | 128822 |       |       |
| 111     | 100.5 | 82.9   | 124.3 |       |
| 192     | 17.4  | 13.9   | 20.9  |       |





#38

Carbon Tetrachloride

Concen: 0.772 ug/l

RT: 7.73 min Scan# 1863

Delta R.T. -0.00 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Instrument :

MSVOA\_N

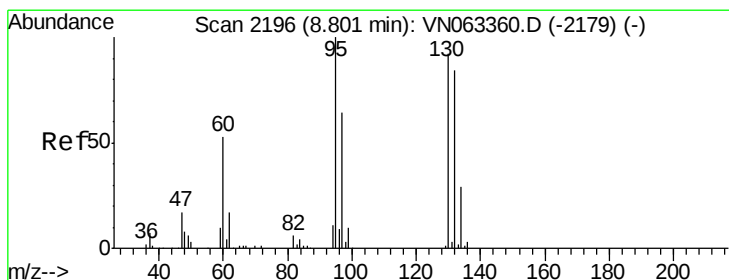
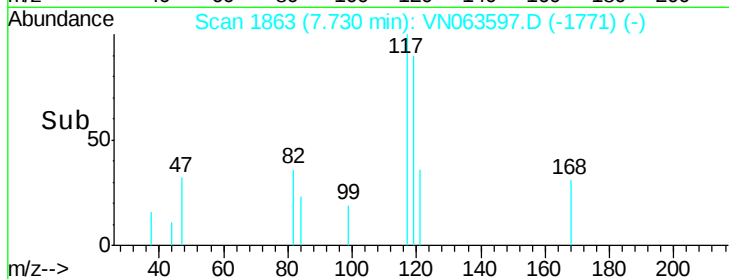
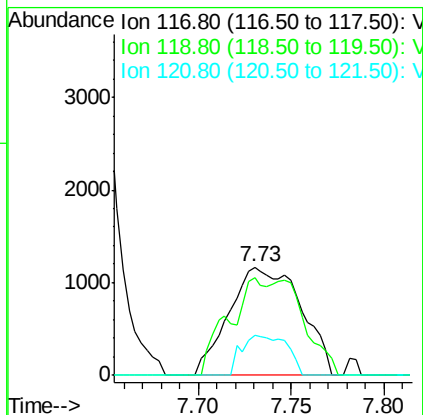
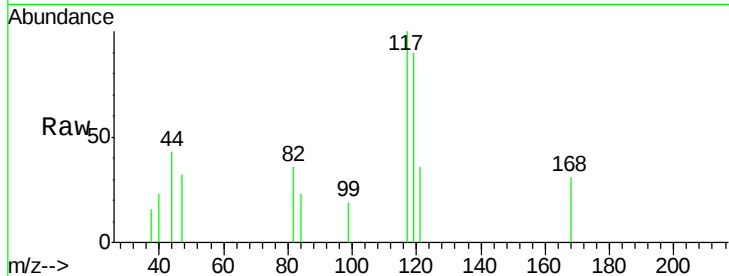
ClientSampleId :

RE120D2-20200916

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 90.3  | 74.5  | 111.7 |
| 121     | 36.5  | 24.1  | 36.1# |

Manual Integrations  
APPROVED

MMDadoda  
9/24/2020 1:38:01 PM



#44

Trichloroethene

Concen: 753.626 ug/l

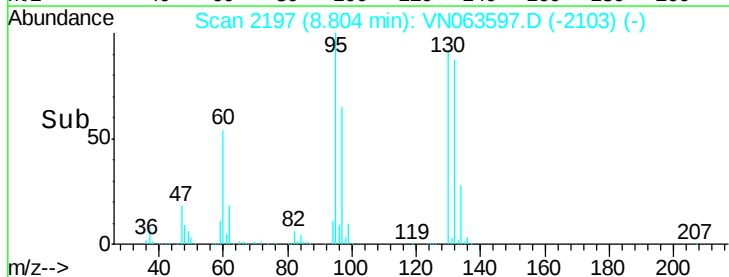
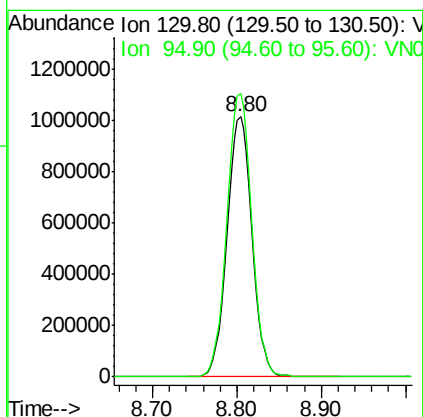
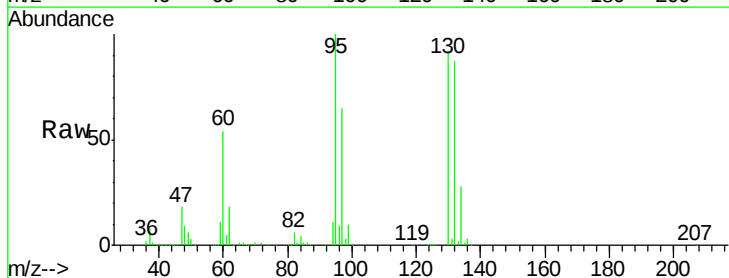
RT: 8.80 min Scan# 2197

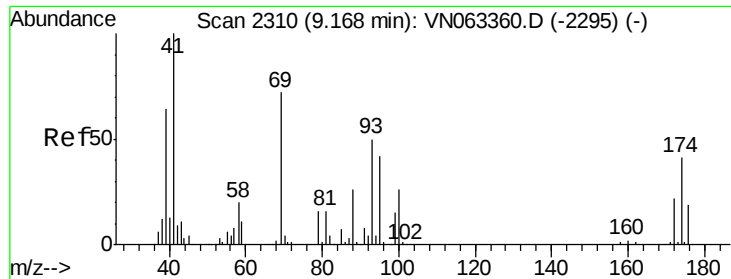
Delta R.T. 0.00 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 130     | 100   |       |       |
| 95      | 108.7 | 0.0   | 217.4 |





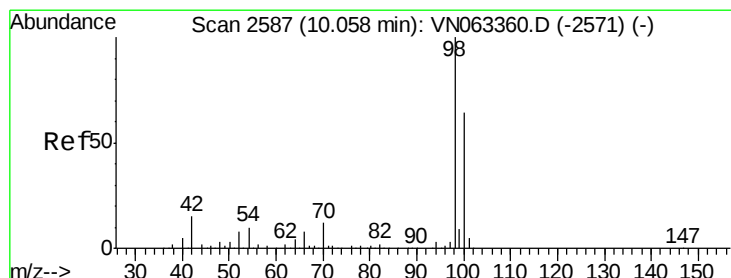
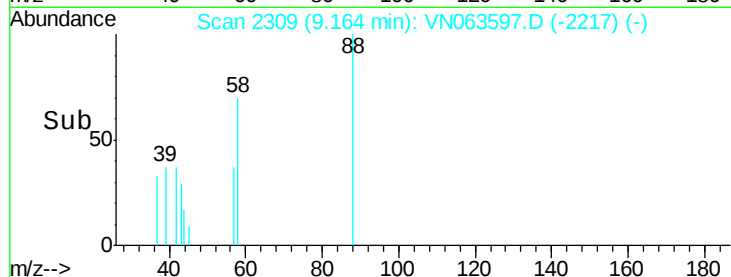
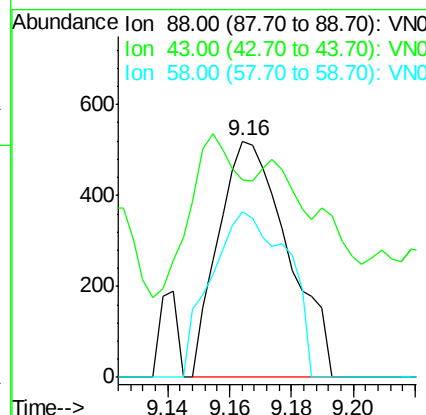
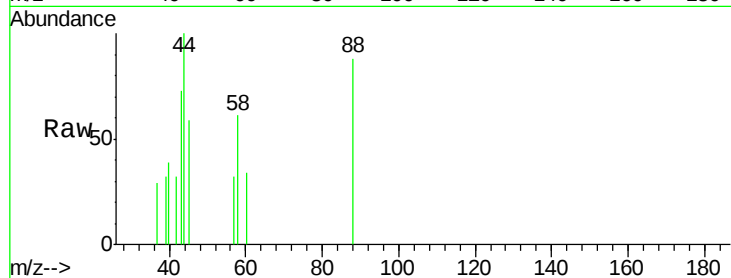
#49  
1,4-Dioxane  
Concen: 16.379 ug/l  
RT: 9.16 min Scan# 2309  
Delta R.T. -0.00 min  
Lab File: VN063597.D  
Acq: 23 Sep 2020 18:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE120D2-20200916

| Tot Ion | 88    | Resp  | 811   |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 88      | 100   |       |       |
| 43      | 53.9  | 32.6  | 49.0# |
| 58      | 77.1  | 60.0  | 90.0  |

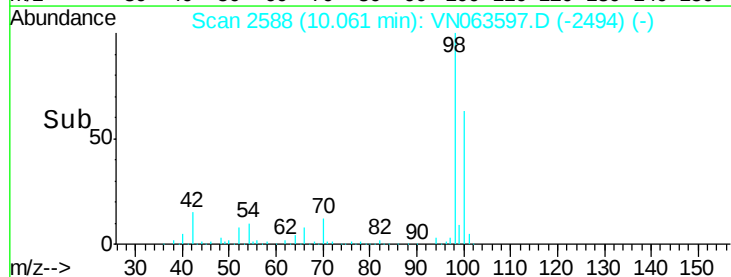
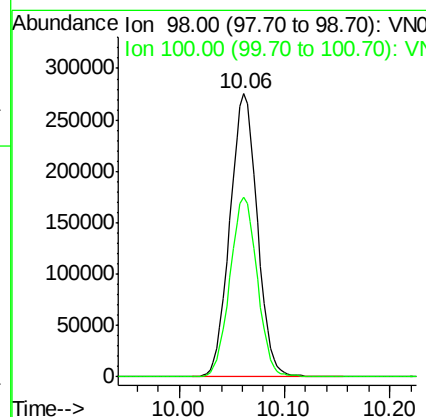
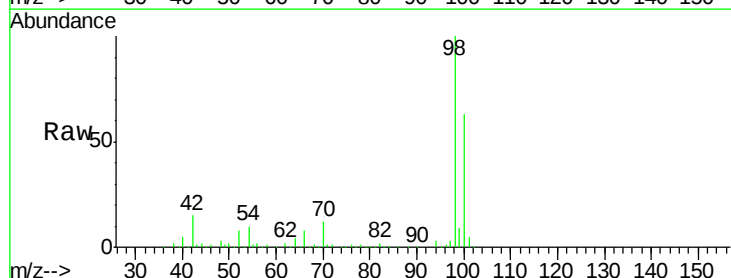
Manual Integrations  
APPROVED

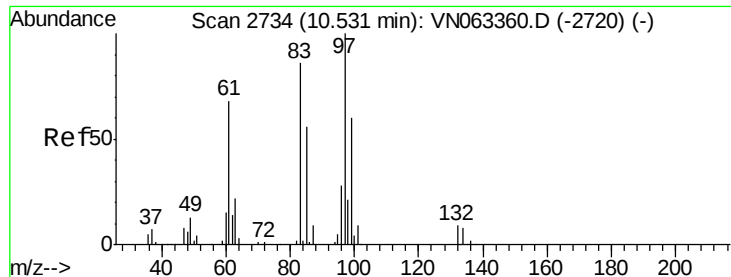
MMDadoda  
9/24/2020 1:38:01 PM



#50  
Toluene-d8  
Concen: 50.683 ug/l  
RT: 10.06 min Scan# 2588  
Delta R.T. 0.00 min  
Lab File: VN063597.D  
Acq: 23 Sep 2020 18:30

| Tgt Ion | 98    | Resp  | 495582 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 98      | 100   |       |        |
| 100     | 63.3  | 50.7  | 76.1   |





#55

1,1,2-Trichloroethane

Concen: 0.424 ug/l

RT: 10.53 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Instrument :

MSVOA\_N

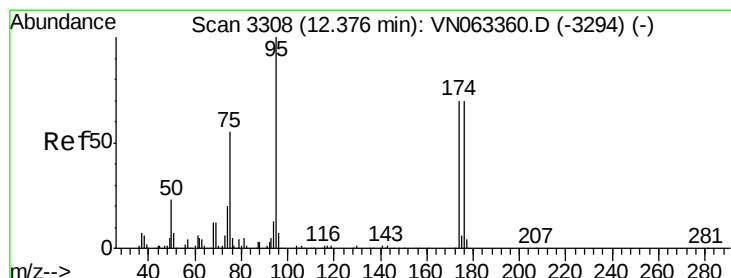
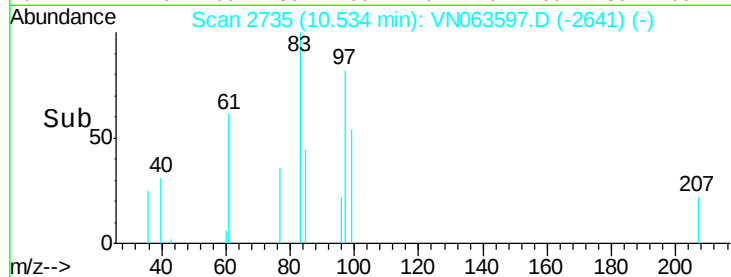
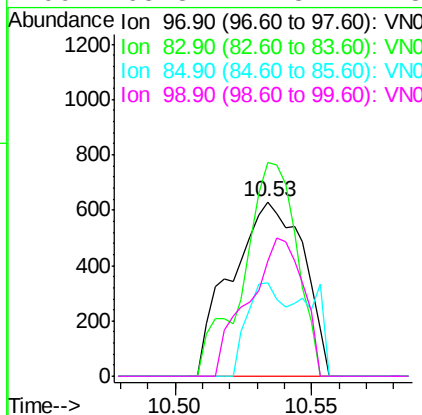
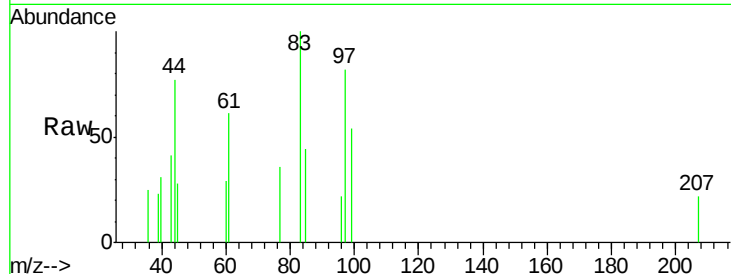
ClientSampleId :

RE120D2-20200916

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 97    | Resp: | 1157   |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 83       | 122.3 | 68.9  | 103.3# |
| 85       | 53.4  | 44.8  | 67.2   |
| 99       | 65.8  | 47.8  | 71.8   |

Manual Integrations  
APPROVED

MMDadoda  
9/24/2020 1:38:01 PM



#62

4-Bromofluorobenzene

Concen: 53.409 ug/l

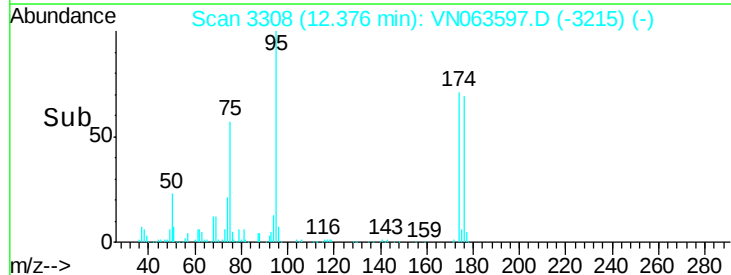
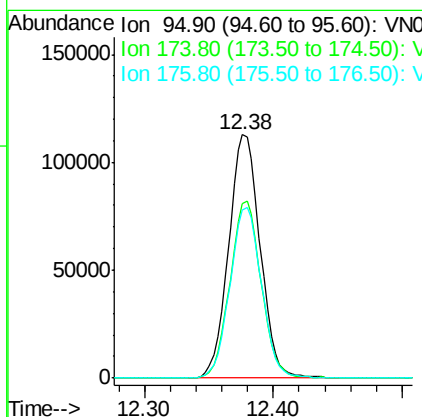
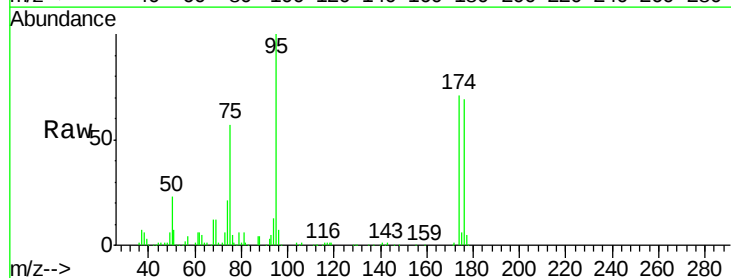
RT: 12.38 min Scan# 3308

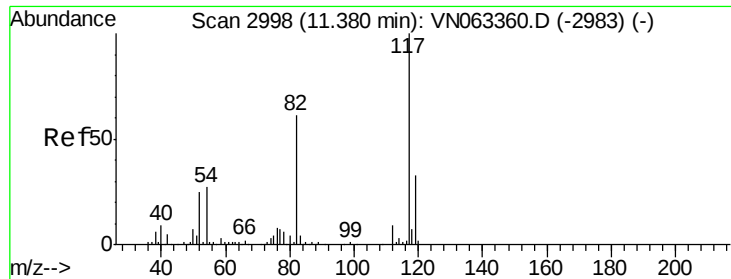
Delta R.T. -0.00 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 191441 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 72.2  | 0.0   | 140.8  |
| 176      | 70.2  | 0.0   | 137.6  |





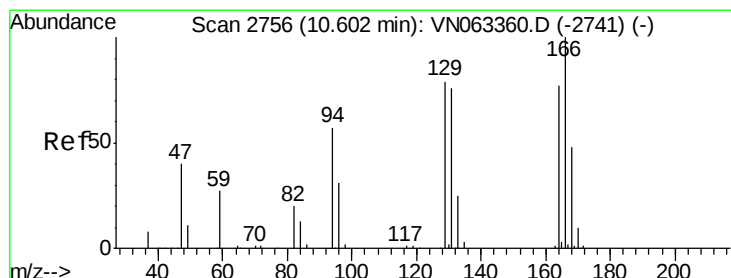
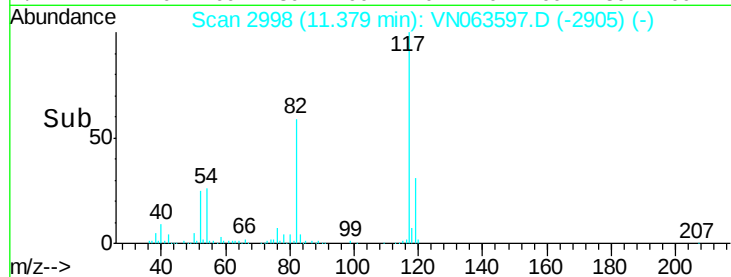
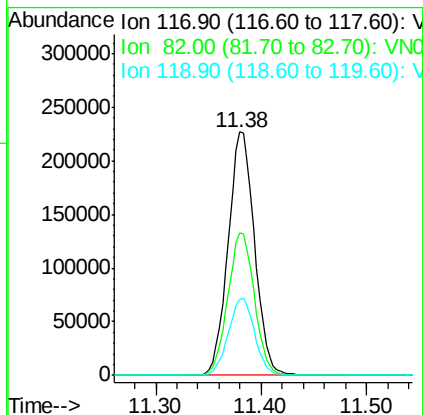
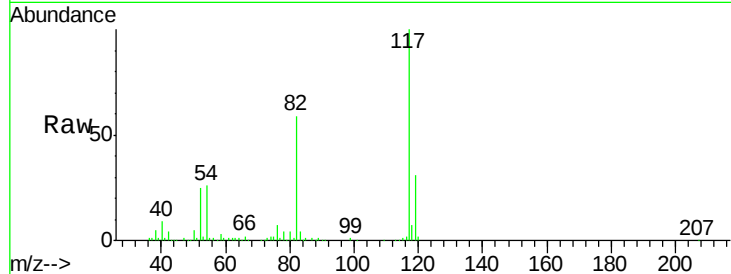
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.38 min Scan# 2998  
Delta R.T. -0.00 min  
Lab File: VN063597.D  
Acq: 23 Sep 2020 18:30

Instrument :  
MSVOA\_N  
ClientSampleId :  
RE120D2-20200916

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 117     | 100   | 393084 |       |       |
| 82      | 58.6  |        | 49.2  | 73.8  |
| 119     | 31.3  |        | 26.2  | 39.4  |

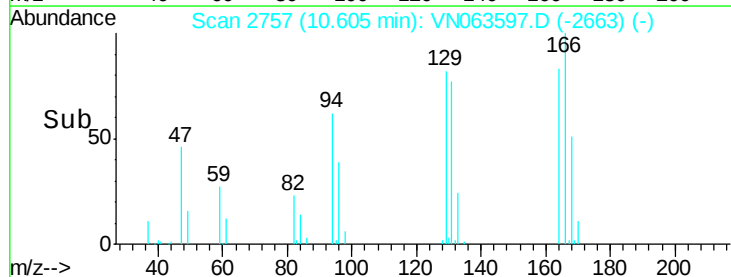
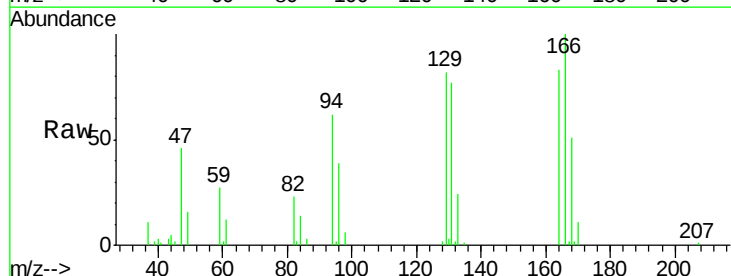
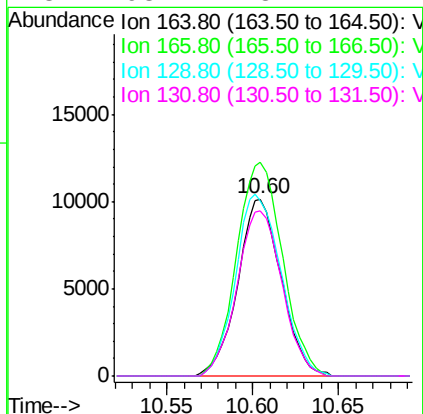
Manual Integrations  
APPROVED

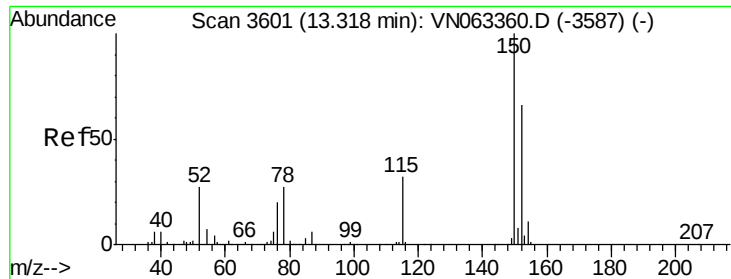
MMDadoda  
9/24/2020 1:38:01 PM



#64  
Tetrachloroethene  
Concen: 6.661 ug/l  
RT: 10.60 min Scan# 2757  
Delta R.T. 0.00 min  
Lab File: VN063597.D  
Acq: 23 Sep 2020 18:30

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 164     | 100   | 17829 |       |       |
| 166     | 120.6 |       | 103.4 | 155.0 |
| 129     | 99.1  |       | 81.8  | 122.6 |
| 131     | 93.1  |       | 78.2  | 117.4 |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3602

Delta R.T. 0.00 min

Lab File: VN063597.D

Acq: 23 Sep 2020 18:30

Instrument :

MSVOA\_N

ClientSampleId :

RE120D2-20200916

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 163665 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 115       | 63.3  | 32.2  | 96.6   |
| 150       | 156.1 | 0.0   | 343.4  |

Manual Integrations  
APPROVED

MMDadoda  
9/24/2020 1:38:01 PM

