

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061219\  
 Data File : VN056237.D  
 Acq On : 12 Jun 2019 9:57  
 Operator : JC/SP  
 Sample : K3265-13  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-01

Manual Integrations  
 APPROVED

MMDadoda  
 6/13/2019 9:42:10 AM

Quant Time: Jun 13 04:48:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Jun 06 04:02:53 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 7.19  | 128  | 48430    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 8.58  | 114  | 229422   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 11.41 | 117  | 184376   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |                |    |            |         |      |      |
|---------------------------|----------------|----|------------|---------|------|------|
| 27) 1,2-Dichloroethane-d4 | 8.02           | 65 | 89435      | 29.74   | ug/l | 0.00 |
| Spiked Amount 30.000      | Range 50 - 169 |    | Recovery = | 99.13%  |      |      |
| 60) 4-Bromofluorobenzene  | 12.40          | 95 | 56715      | 20.75   | ug/l | 0.00 |
| Spiked Amount 30.000      | Range 56 - 143 |    | Recovery = | 69.17%  |      |      |
| 63) Toluene-d8            | 10.09          | 98 | 264605     | 31.64   | ug/l | 0.00 |
| Spiked Amount 30.000      | Range 66 - 137 |    | Recovery = | 105.47% |      |      |

| Target Compounds |      |    |       |       | Ovalue |
|------------------|------|----|-------|-------|--------|
| 15) Acetone      | 3.82 | 58 | 1079m | 2.432 | ug/l   |

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

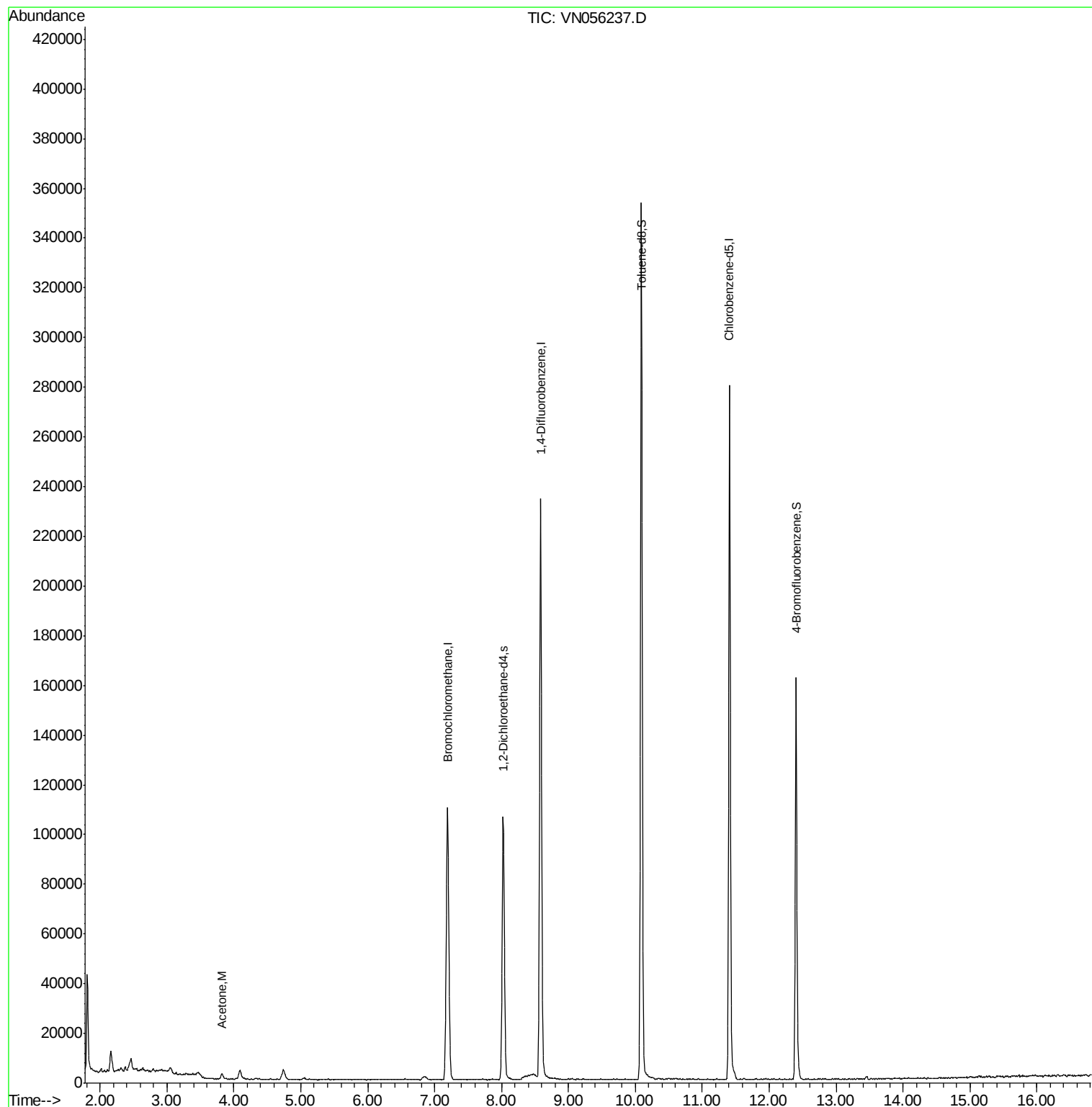
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061219\  
Data File : VN056237.D  
Acq On : 12 Jun 2019 9:57  
Operator : JC/SP  
Sample : K3265-13  
Misc : 5.00mL/MSVOA N/WATER  
ALS Vial : 4 Sample Multiplier: 1

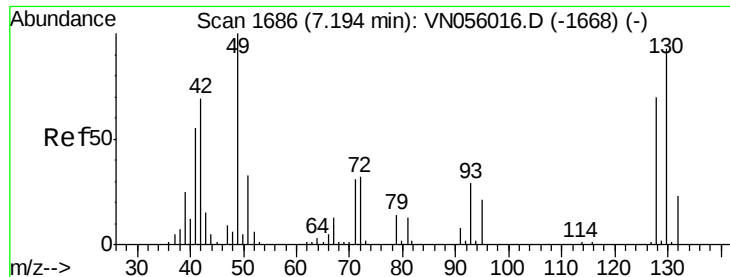
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-01

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6/13/2019 9:42:10 AM

Quant Time: Jun 13 04:48:13 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Jun 06 04:02:53 2019  
Response via : Initial Calibration





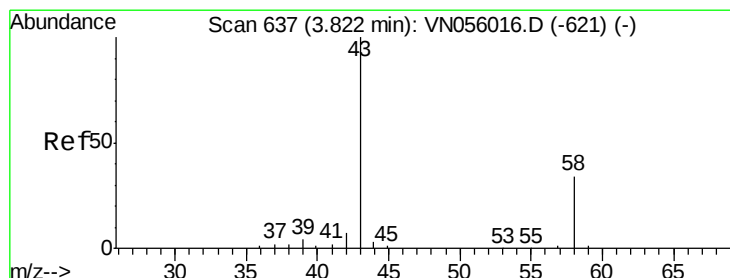
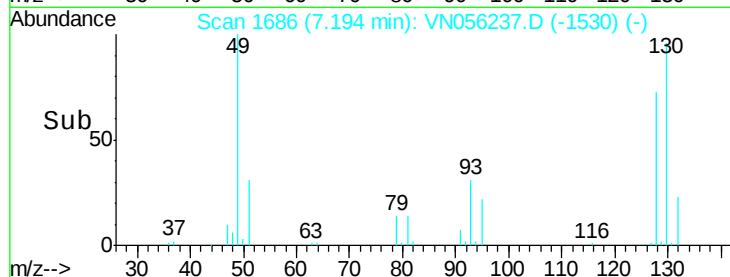
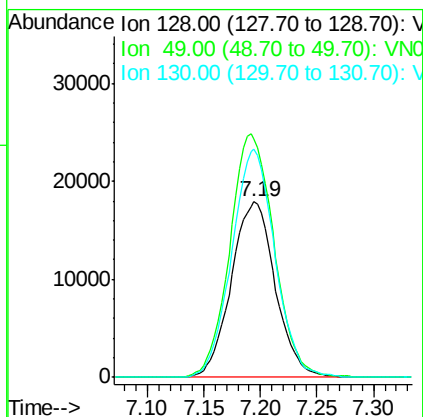
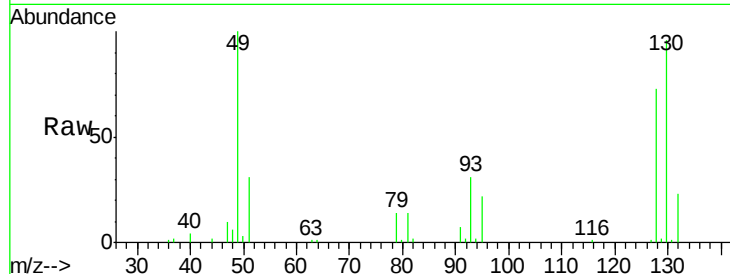
#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.19 min Scan# 1686  
Delta R.T. 0.00 min  
Lab File: VN056237.D  
Acq: 12 Jun 2019 9:57

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 49      | 139.1 | 0.0   | 355.8 |
| 130     | 127.7 | 0.0   | 326.3 |

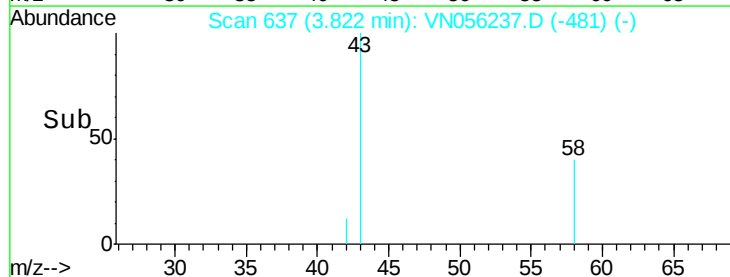
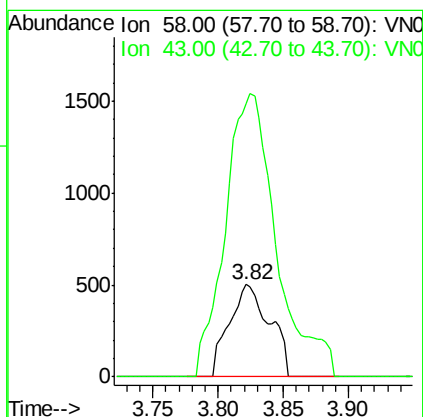
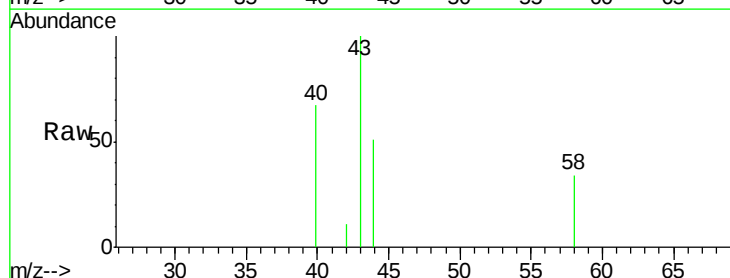
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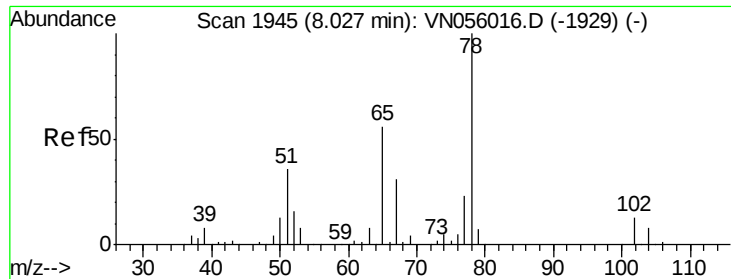
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#15  
Acetone  
Concen: 2.432 ug/l m  
RT: 3.82 min Scan# 637  
Delta R.T. 0.00 min  
Lab File: VN056237.D  
Acq: 12 Jun 2019 9:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 58      | 100   |       |       |
| 43      | 295.6 | 232.5 | 348.7 |





#27

1,2-Dichloroethane-d4

Concen: 29.738 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. -0.00 min

Lab File: VN056237.D

Acq: 12 Jun 2019 9:57

Instrument :

MSVOA\_N

ClientSampleId :

MW-01

Tot Ion: 65 Resp: 89435

Ion Ratio Lower Upper

65 100

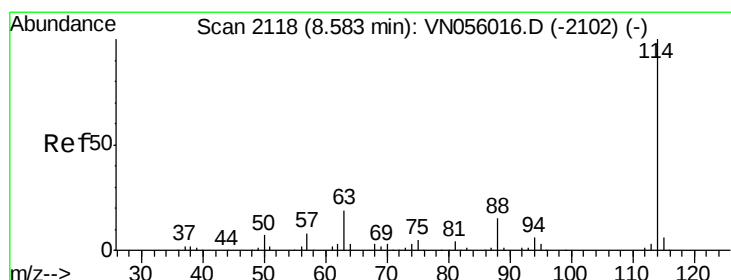
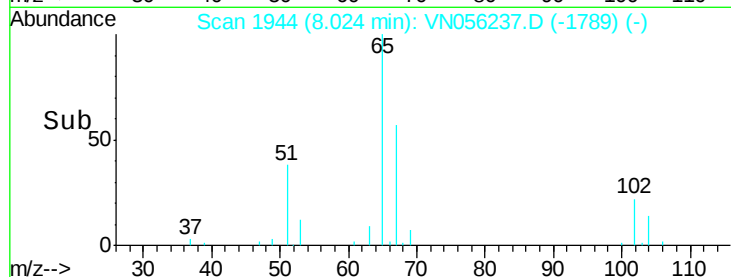
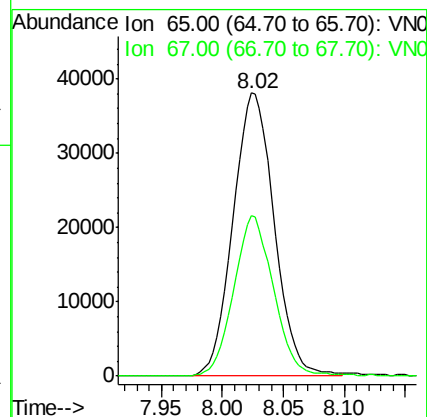
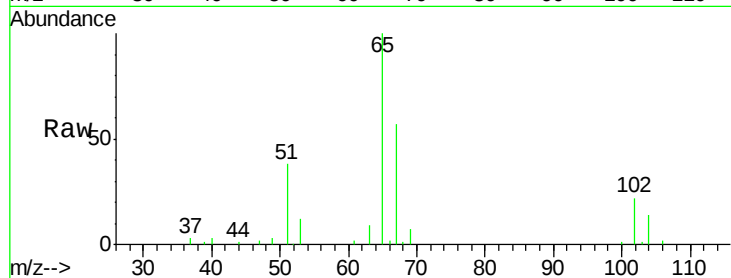
67 54.2 43.4 65.2

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#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN056237.D

Acq: 12 Jun 2019 9:57

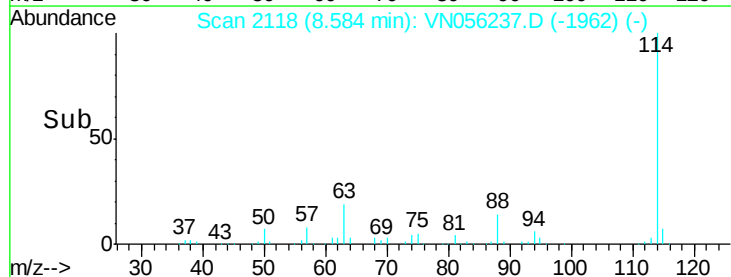
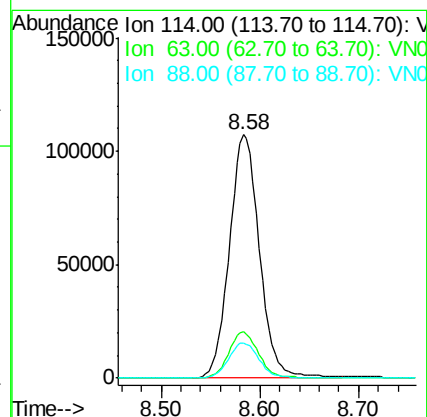
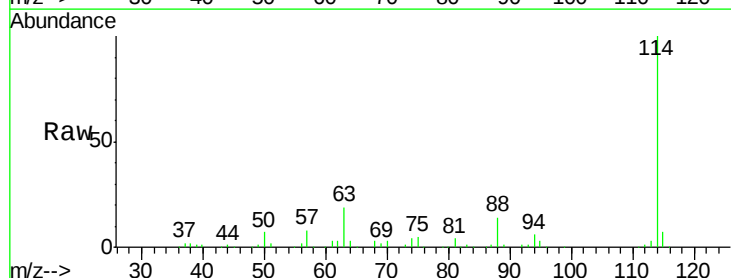
Tgt Ion: 114 Resp: 229422

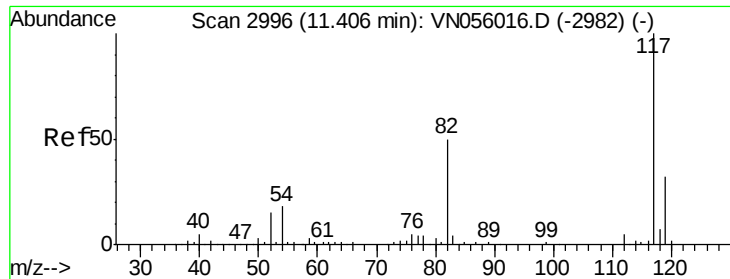
Ion Ratio Lower Upper

114 100

63 18.7 14.7 22.1

88 14.8 11.9 17.9





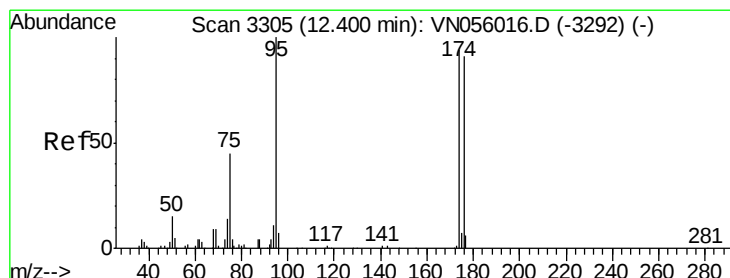
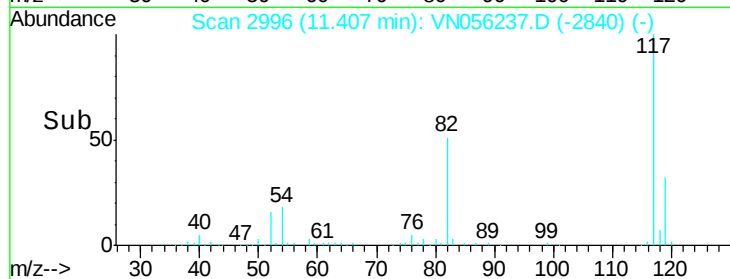
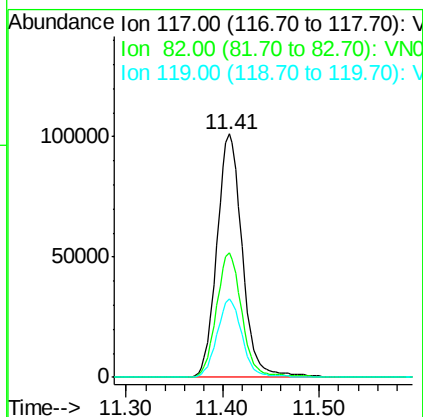
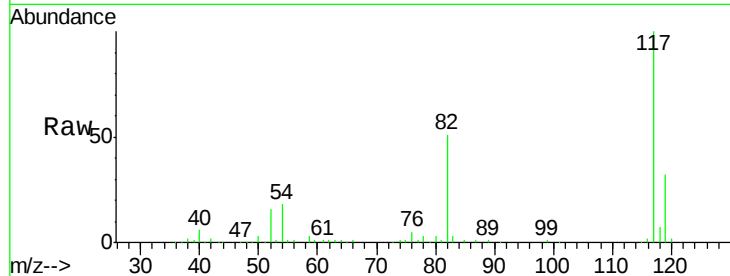
#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN056237.D  
Acq: 12 Jun 2019 9:57

Instrument :  
MSVOA\_N  
ClientSampled :  
MW-01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 51.6  | 41.2  | 61.8  |
| 119     | 31.4  | 26.2  | 39.2  |

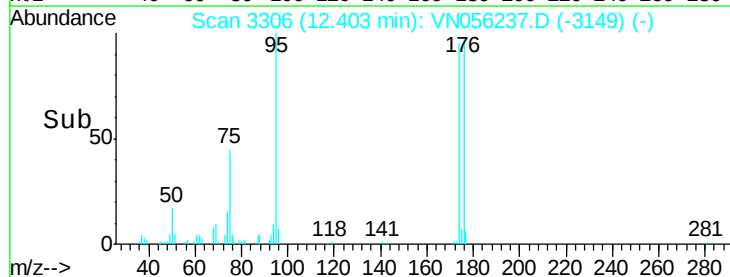
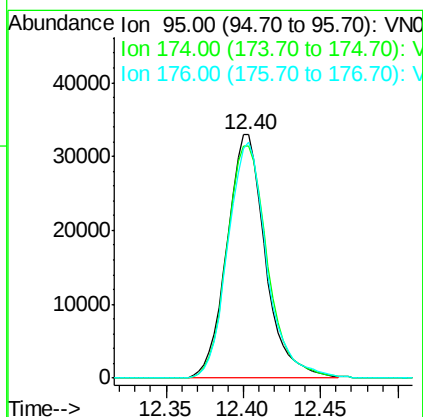
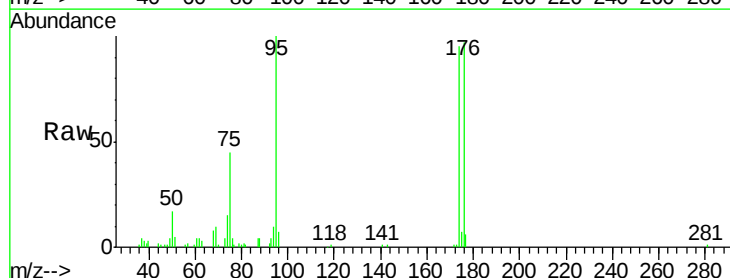
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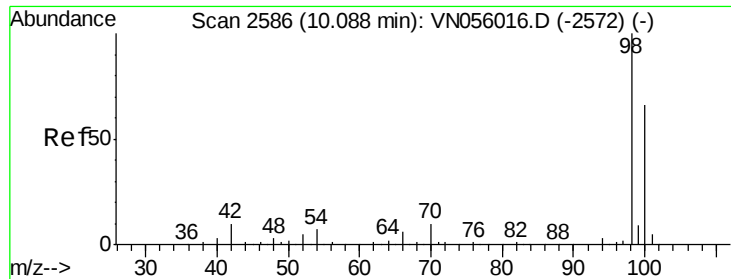
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#60  
4-Bromofluorobenzene  
Concen: 20.753 ug/l  
RT: 12.40 min Scan# 3306  
Delta R.T. 0.00 min  
Lab File: VN056237.D  
Acq: 12 Jun 2019 9:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 100.7 | 75.4  | 113.0 |
| 176     | 98.4  | 73.9  | 110.9 |





#63  
Toluene-d8  
Concen: 31.637 ug/l  
RT: 10.09 min Scan# 2586  
Delta R.T. 0.00 min  
Lab File: VN056237.D  
Acq: 12 Jun 2019 9:57

Instrument :  
MSVOA\_N  
ClientSampled :  
MW-01

| Tot Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 98      | 100 | 64.3  | 52.2  | 78.4  |

Manual Integrations  
APPROVED

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6/13/2019 9:42:10 AM

