

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072018\  
 Data File : VX003500.D  
 Acq On : 20 Jul 2018 11:00  
 Operator : JC/SP  
 Sample : J4088-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SPDES-1

Manual Integrations  
 APPROVED

MMDadoda  
 7/23/2018 12:34:36 PM

Quant Time: Jul 20 11:40:07 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071218W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Jul 12 13:28:20 2018  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.02  | 128  | 66617m   | 30.00 | ug/l  | -0.01    |
| 28) 1,4-Difluorobenzene | 6.86  | 114  | 325850   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.12 | 117  | 302173   | 30.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |       |          |          |      |        |
|-----------------------------|--------|-------|----------|----------|------|--------|
| 27) 1,2-Dichloroethane-d4   | 6.06   | 65    | 130294   | 28.64    | ug/l | -0.01  |
| Spiked Amount               | 30.000 | Range | 50 - 169 | Recovery | =    | 95.47% |
| 60) 4-Bromofluorobenzene    | 11.14  | 95    | 129243   | 26.62    | ug/l | 0.00   |
| Spiked Amount               | 30.000 | Range | 56 - 143 | Recovery | =    | 88.73% |
| 63) Toluene-d8              | 8.72   | 98    | 397204   | 29.73    | ug/l | 0.00   |
| Spiked Amount               | 30.000 | Range | 66 - 137 | Recovery | =    | 99.10% |

| Target Compounds | Ovalue |
|------------------|--------|
| -----            |        |

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

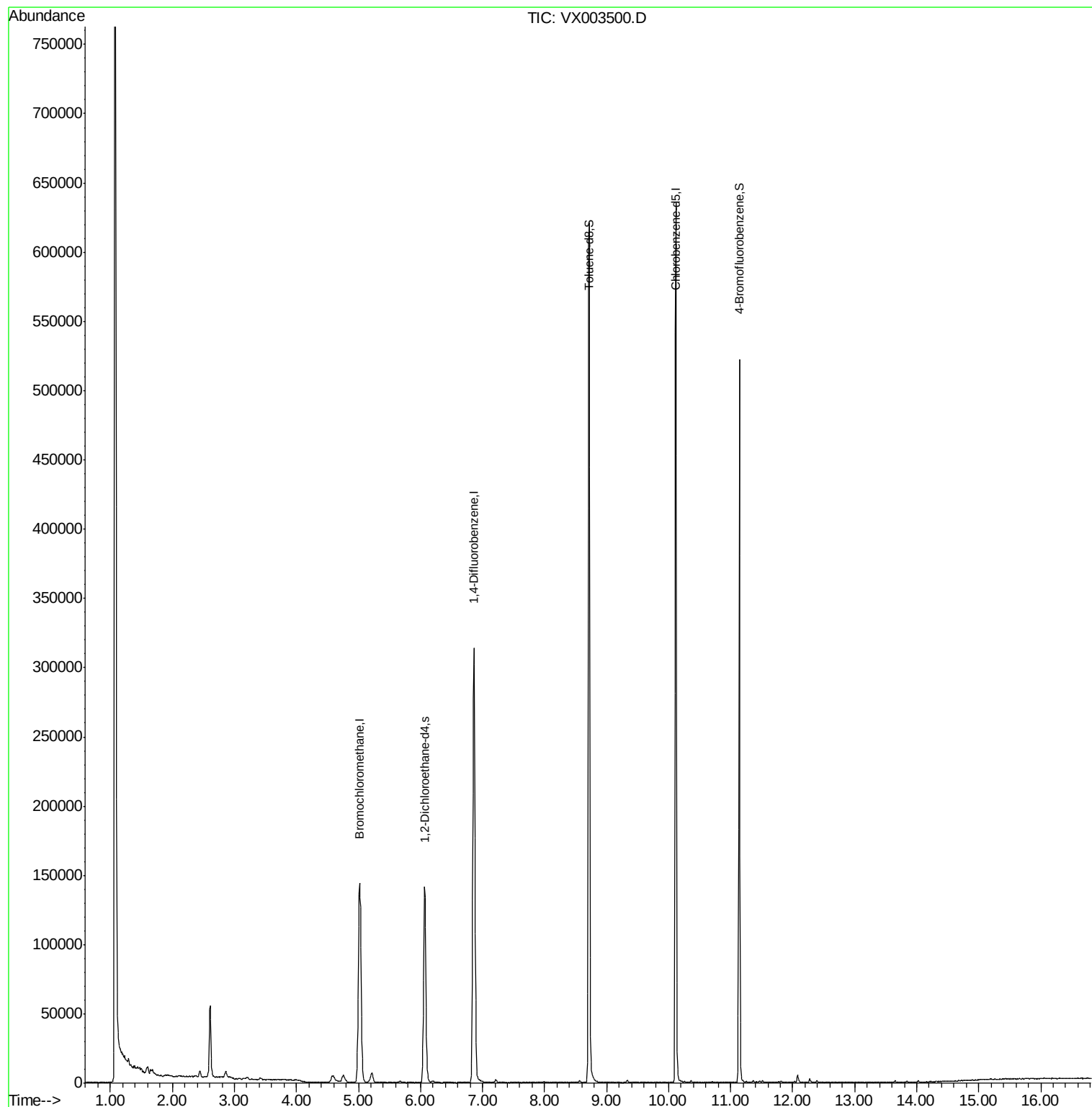
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX072018\  
Data File : VX003500.D  
Acq On : 20 Jul 2018 11:00  
Operator : JC/SP  
Sample : J4088-01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 5 Sample Multiplier: 1

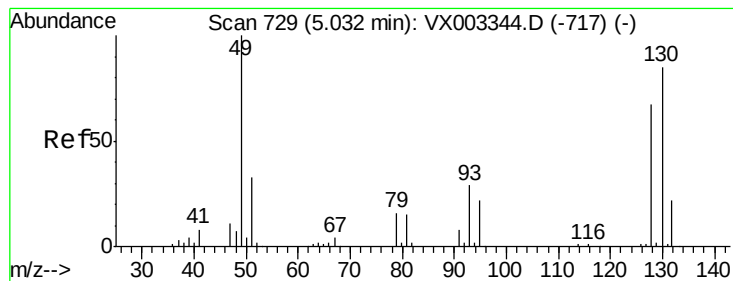
Instrument :  
MSVOA\_X  
ClientSampleId :  
SPDES-1

Manual Integrations  
APPROVED

MMDadoda  
7/23/2018 12:34:36 PM

Quant Time: Jul 20 11:40:07 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X071218W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Jul 12 13:28:20 2018  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l m

RT: 5.02 min Scan# 727

Delta R.T. -0.01 min

Lab File: VX003500.D

Acq: 20 Jul 2018 11:00

Instrument :

MSVOA\_X

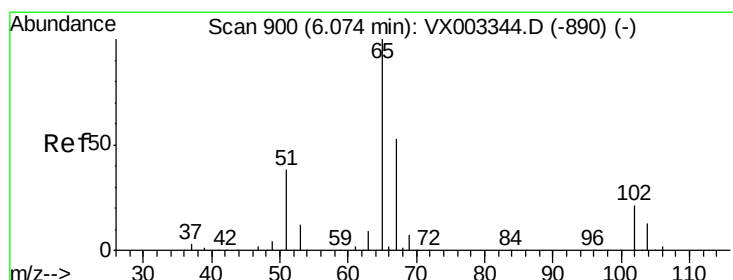
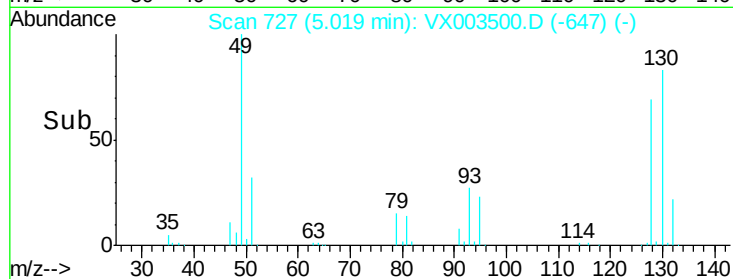
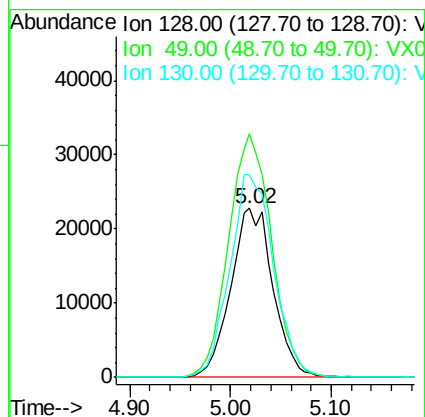
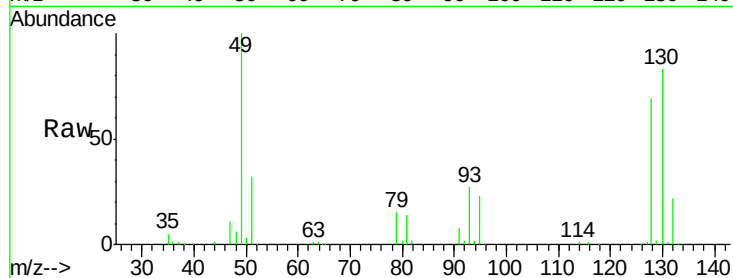
ClientSampleId :

SPDES-1

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 66617 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 49       | 147.4 | 0.0   | 423.0 |
| 130      | 124.7 | 0.0   | 324.3 |

Manual Integrations  
APPROVED

MMDadoda  
7/23/2018 12:34:36 PM



#27

1,2-Dichloroethane-d4

Concen: 28.64 ug/l

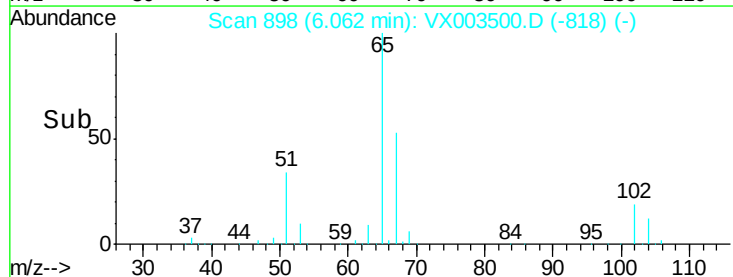
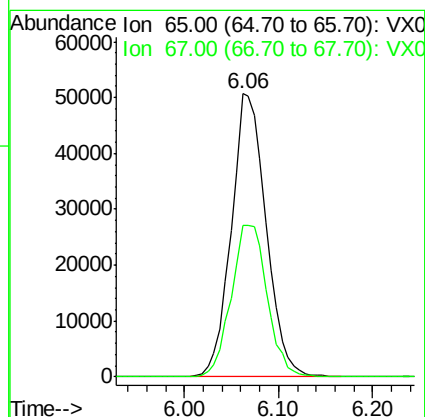
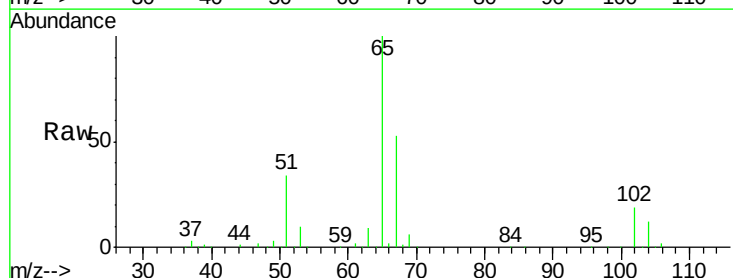
RT: 6.06 min Scan# 898

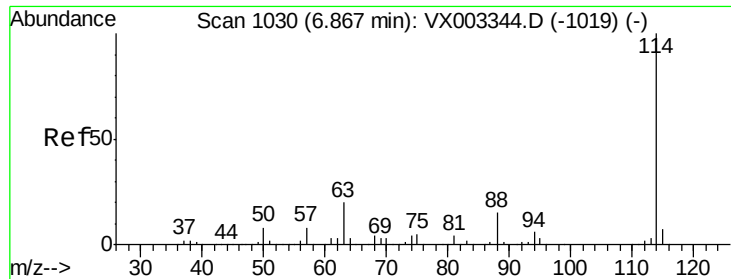
Delta R.T. -0.01 min

Lab File: VX003500.D

Acq: 20 Jul 2018 11:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 65    | Resp: | 130294 |
| Ion      | Ratio | Lower | Upper  |
| 65       | 100   |       |        |
| 67       | 55.5  | 40.9  | 61.3   |





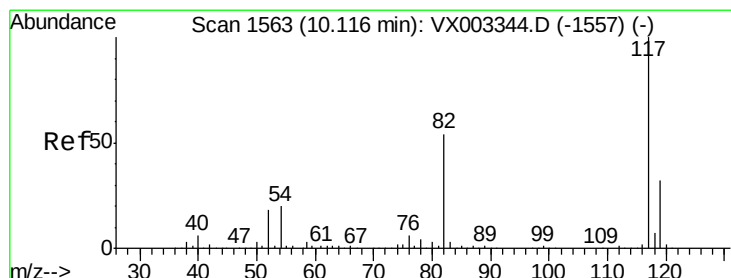
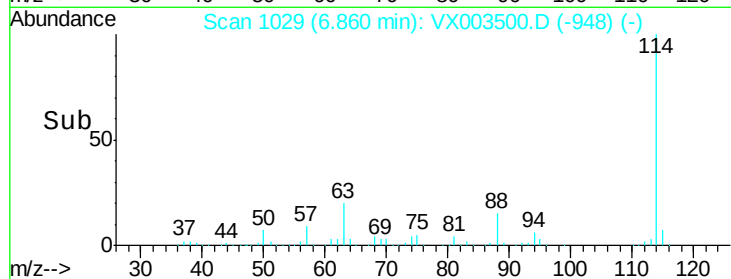
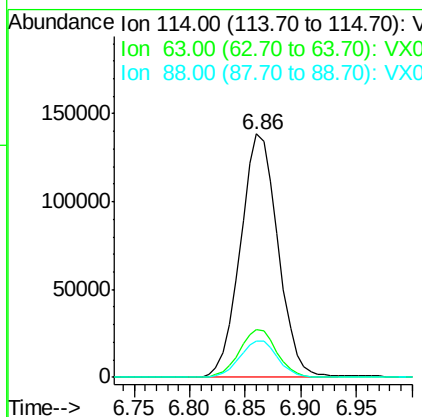
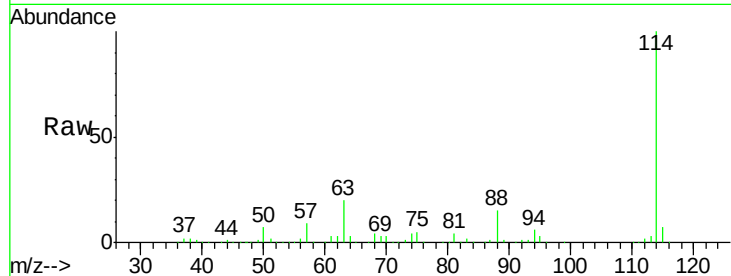
#28  
1,4-Difluorobenzene  
Concen: 30.00 ug/l  
RT: 6.86 min Scan# 1029  
Delta R.T. -0.01 min  
Lab File: VX003500.D  
Acq: 20 Jul 2018 11:00

Instrument :  
MSVOA\_X  
ClientSampleId :  
SPDES-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.8  | 17.1  | 25.7  |
| 88      | 15.0  | 12.6  | 19.0  |

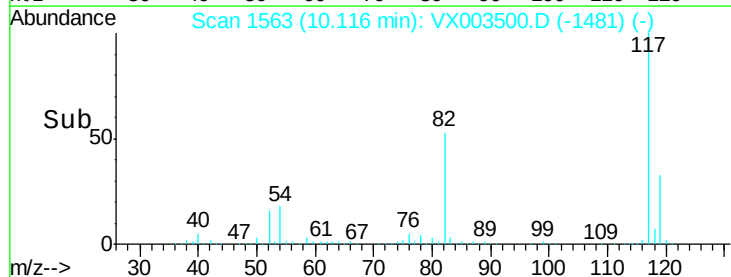
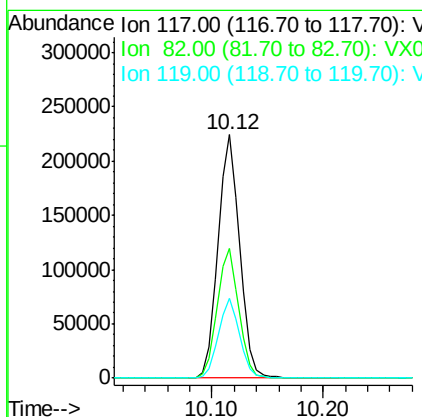
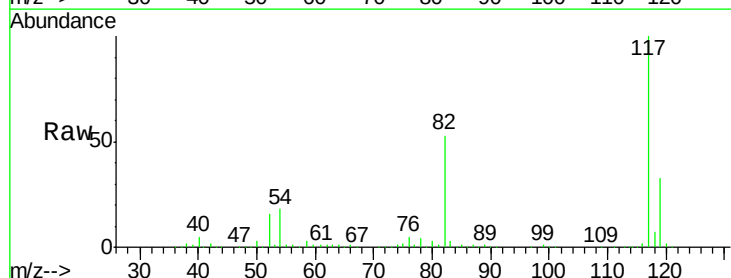
Manual Integrations  
APPROVED

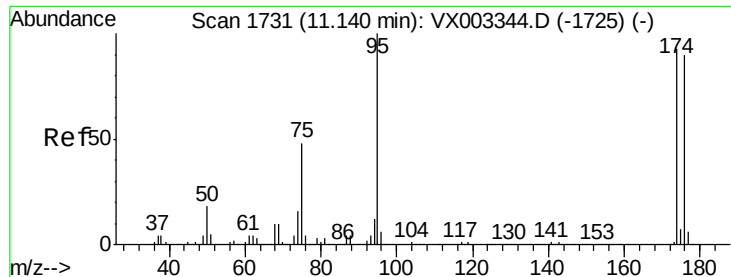
MMDadoda  
7/23/2018 12:34:36 PM



#57  
Chlorobenzene-d5  
Concen: 30.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. -0.00 min  
Lab File: VX003500.D  
Acq: 20 Jul 2018 11:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.0  | 44.3  | 66.5  |
| 119     | 32.3  | 25.7  | 38.5  |





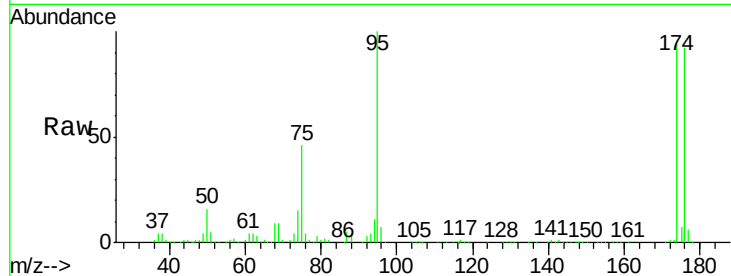
#60  
4-Bromofluorobenzene  
Concen: 26.62 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. -0.00 min  
Lab File: VX003500.D  
Acq: 20 Jul 2018 11:00

Instrument :  
MSVOA\_X  
ClientSampled :  
SPDES-1

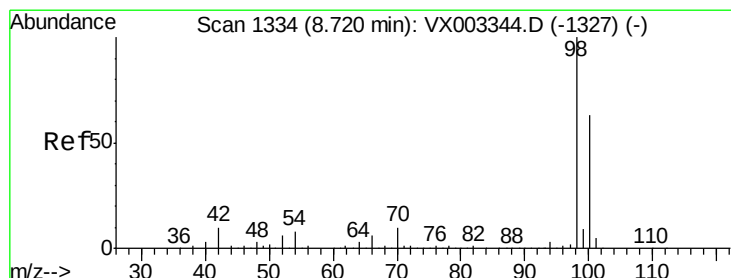
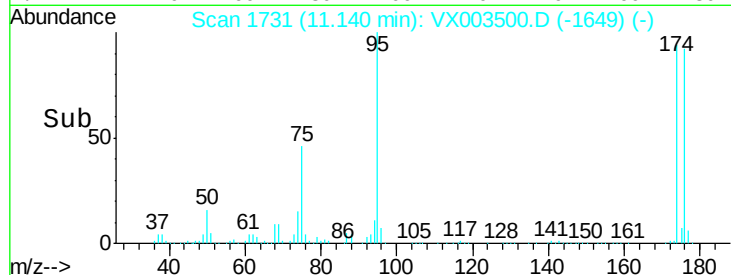
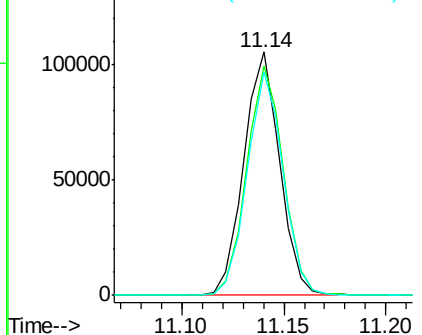
| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 95      | 100  |       | 129243 |       |       |
| 174     | 95.7 | 71.8  | 107.6  |       |       |
| 176     | 92.2 | 70.1  | 105.1  |       |       |

Manual Integrations  
APPROVED

MMDadoda  
7/23/2018 12:34:36 PM

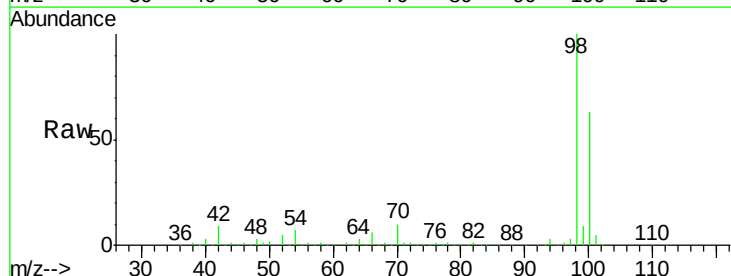


Abundance Ion 95.00 (94.70 to 95.70): VX0  
Ion 174.00 (173.70 to 174.70): V  
Ion 176.00 (175.70 to 176.70): V



#63  
Toluene-d8  
Concen: 29.73 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. -0.00 min  
Lab File: VX003500.D  
Acq: 20 Jul 2018 11:00

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 98      | 100  |       | 397204 |       |       |
| 100     | 64.0 | 50.8  | 76.2   |       |       |



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V

