

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080219\  
 Data File : VN057067.D  
 Acq On : 2 Aug 2019 15:28  
 Operator : JC/SP  
 Sample : K4119-08  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 Z3-0713

Quant Time: Aug 03 05:07:13 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N072719W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jul 27 01:33:29 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.66  | 168  | 557154   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.58  | 114  | 800863   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 661692   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 189159   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.02  | 65   | 311555   | 54.63  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 109.26% |          |
| 35) Dibromofluoromethane    | 7.58  | 113  | 283356   | 55.27  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 110.54% |          |
| 50) Toluene-d8              | 10.08 | 98   | 1052146  | 53.82  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 107.64% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 283836   | 44.59  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 89.18%  |          |

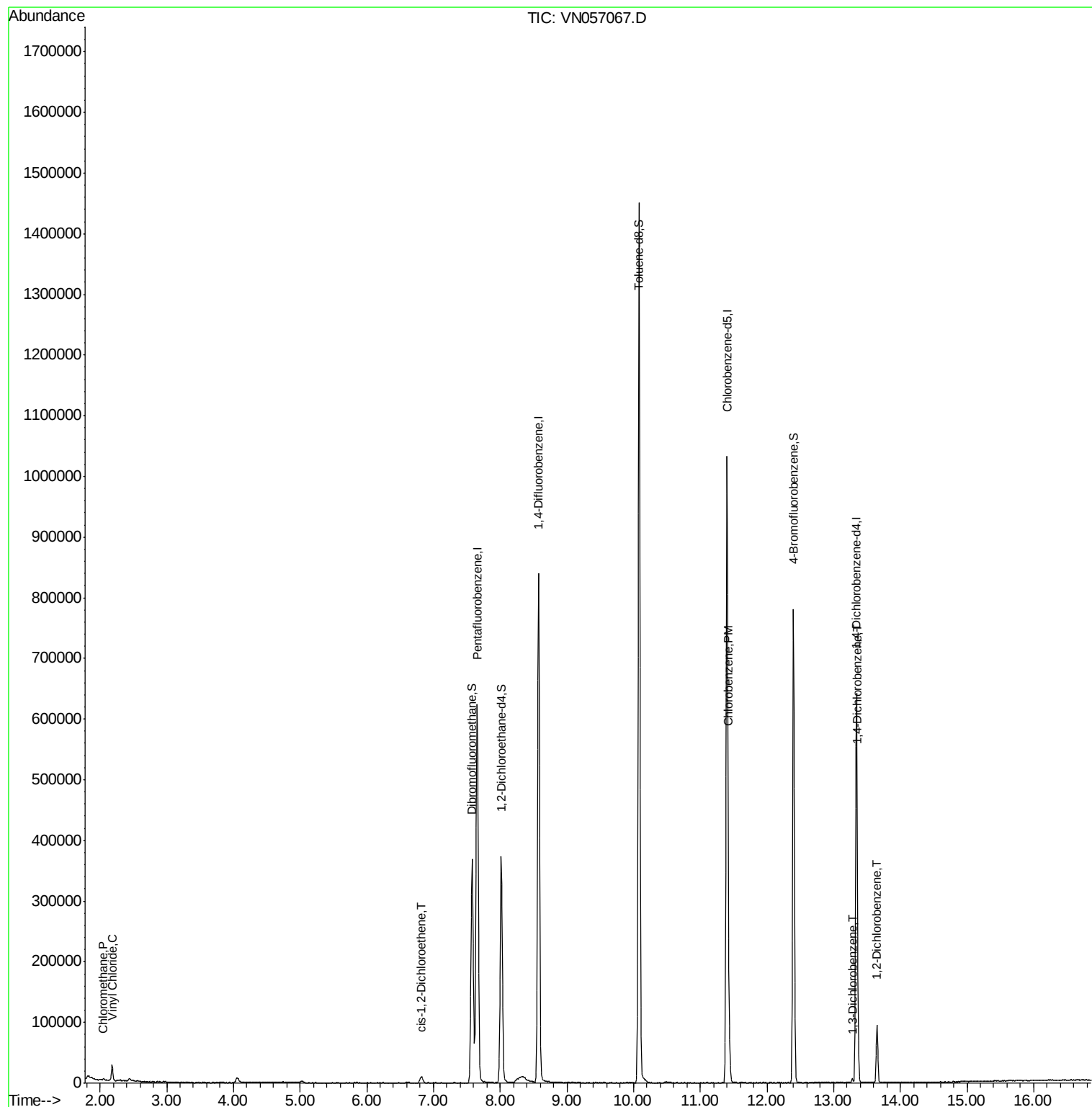
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 3) Chloromethane           | 2.05  | 50   | 2422     | 0.359 | ug/l  | 97     |
| 4) Vinyl Chloride          | 2.18  | 62   | 22695    | 3.589 | ug/l  | 96     |
| 27) cis-1,2-Dichloroethene | 6.82  | 96   | 7364     | 1.197 | ug/l  | 82     |
| 65) Chlorobenzene          | 11.43 | 112  | 63180    | 4.685 | ug/l  | 99     |
| 87) 1,3-Dichlorobenzene    | 13.28 | 146  | 3841     | 0.592 | ug/l  | 90     |
| 88) 1,4-Dichlorobenzene    | 13.36 | 146  | 48782    | 7.808 | ug/l  | 98     |
| 91) 1,2-Dichlorobenzene    | 13.65 | 146  | 44964    | 7.039 | ug/l  | 99     |

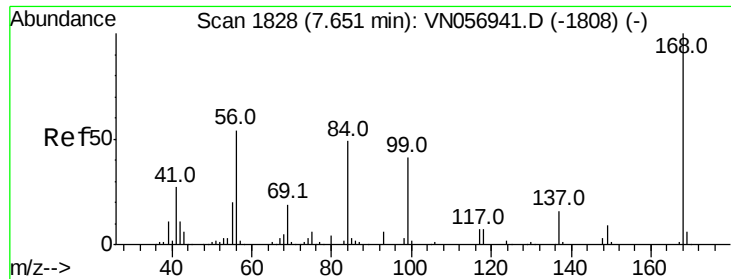
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Sat Jul 27 01:33:29 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN057067.D

Acq: 2 Aug 2019 15:28

Instrument :

MSVOA\_N

ClientSampled :

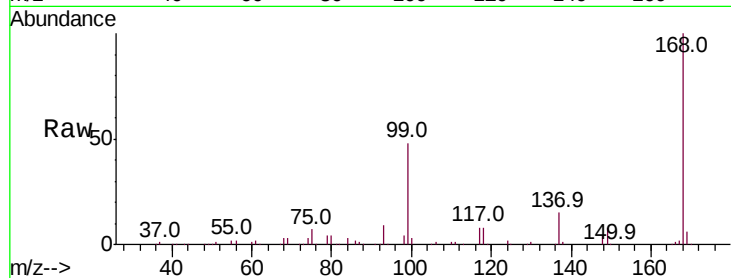
Z3-0713

Tot Ion:168 Resp: 557154

Ion Ratio Lower Upper

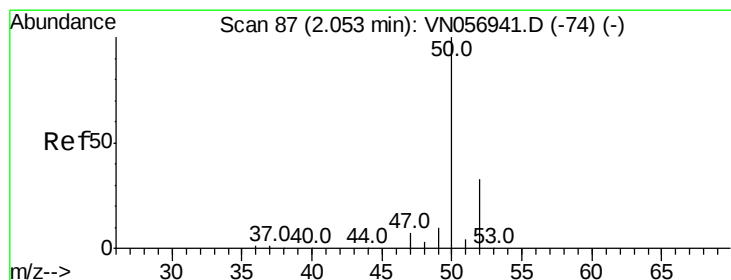
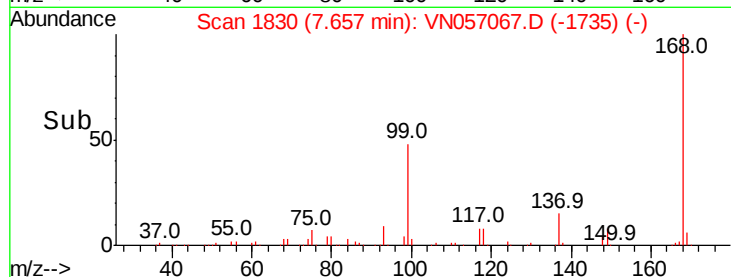
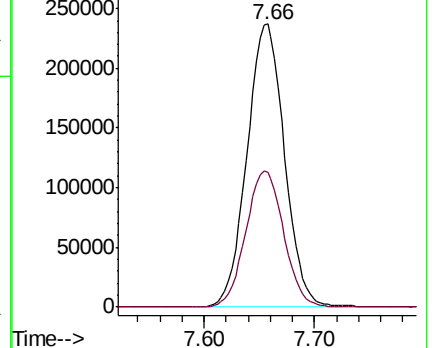
168 100

99 47.6 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.359 ug/l

RT: 2.05 min Scan# 87

Delta R.T. -0.00 min

Lab File: VN057067.D

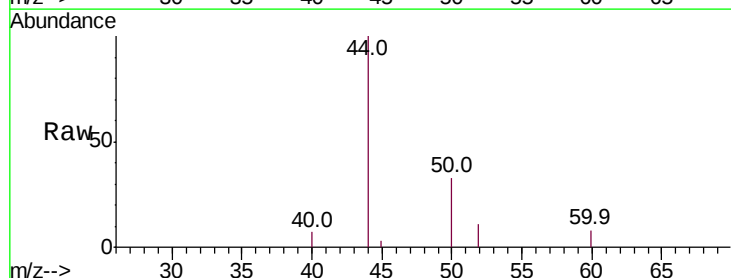
Acq: 2 Aug 2019 15:28

Tgt Ion: 50 Resp: 2422

Ion Ratio Lower Upper

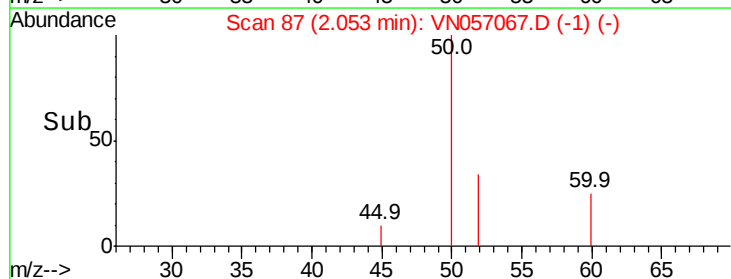
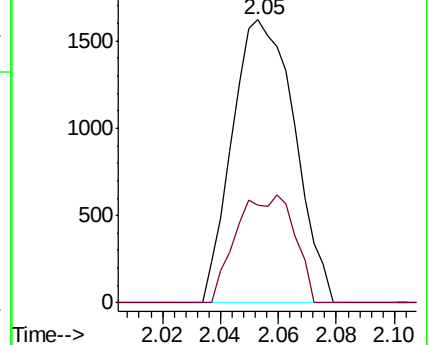
50 100

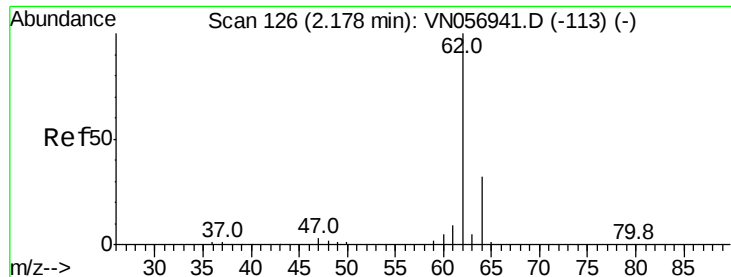
52 34.5 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#4

Vinyl Chloride

Concen: 3.589 ug/l

RT: 2.18 min Scan# 127

Delta R.T. 0.00 min

Lab File: VN057067.D

Acq: 2 Aug 2019 15:28

Instrument :

MSVOA\_N

ClientSampled :

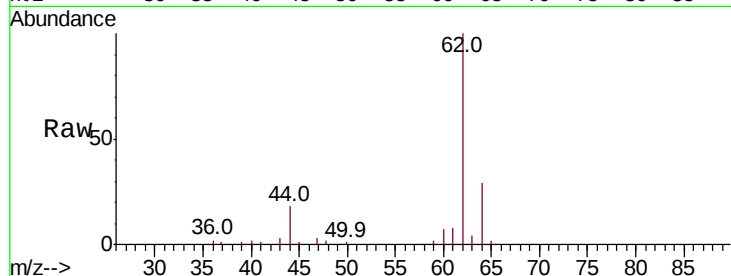
Z3-0713

Tot Ion: 62 Resp: 22695

Ion Ratio Lower Upper

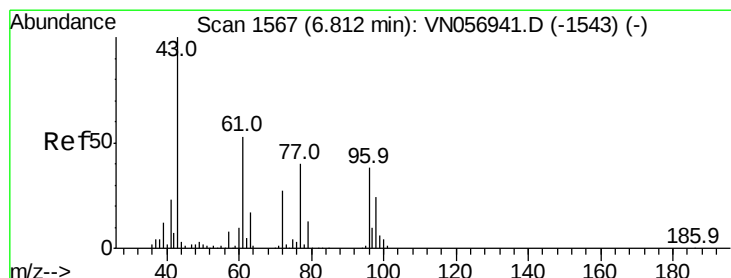
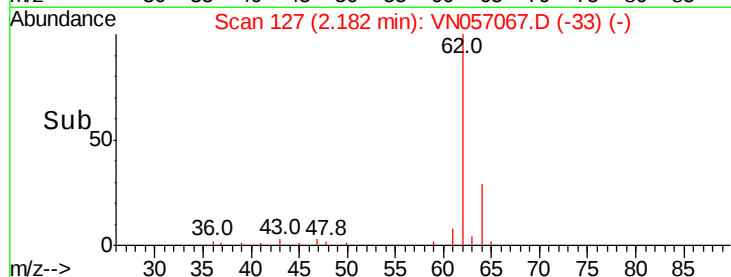
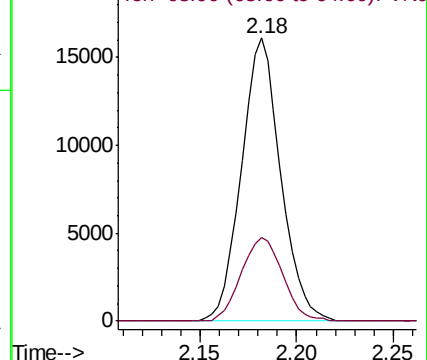
62 100

64 29.4 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO



#27

cis-1,2-Dichloroethene

Concen: 1.197 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN057067.D

Acq: 2 Aug 2019 15:28

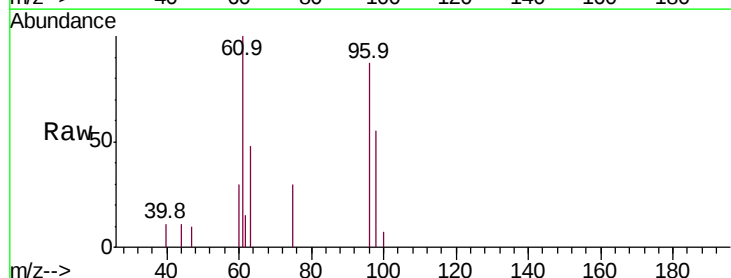
Tgt Ion: 96 Resp: 7364

Ion Ratio Lower Upper

96 100

61 112.0 0.0 277.2

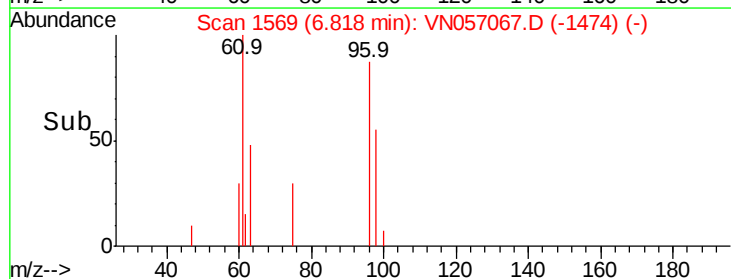
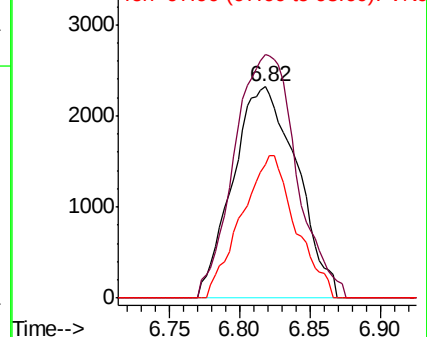
98 57.1 0.0 128.4

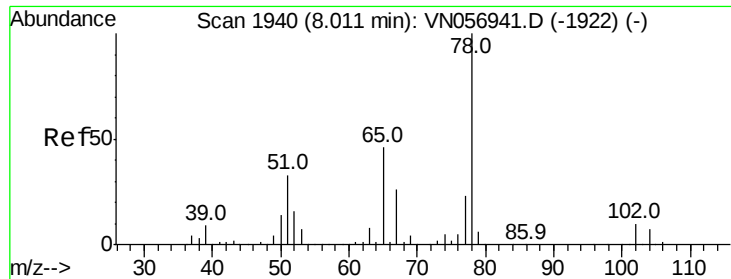


Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

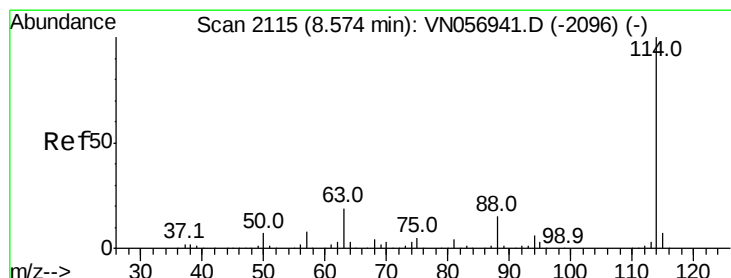
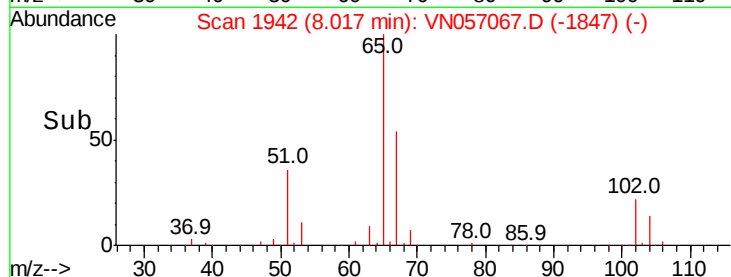
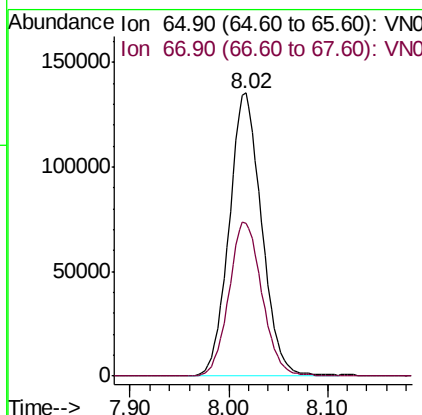
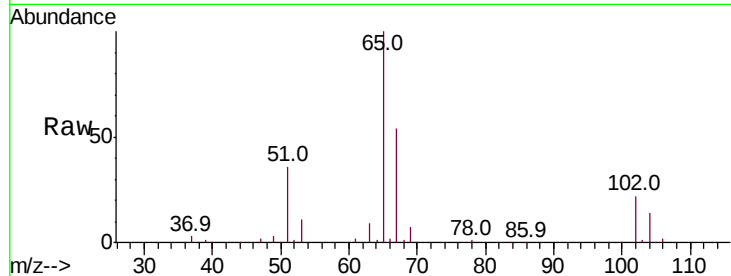




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.627 ug/l  
 RT: 8.02 min Scan# 1942  
 Delta R.T. 0.01 min  
 Lab File: VN057067.D  
 Acq: 2 Aug 2019 15:28

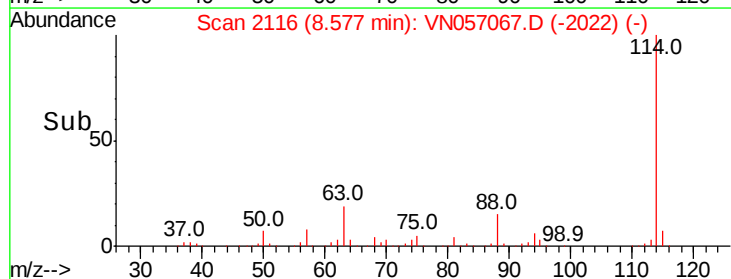
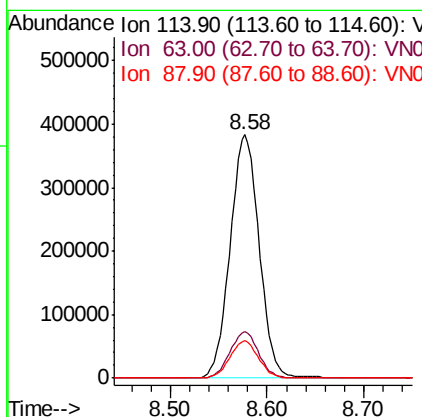
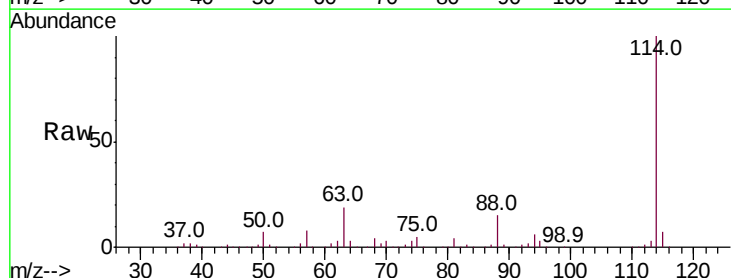
Instrument :  
 MSVOA\_N  
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 Z3-0713

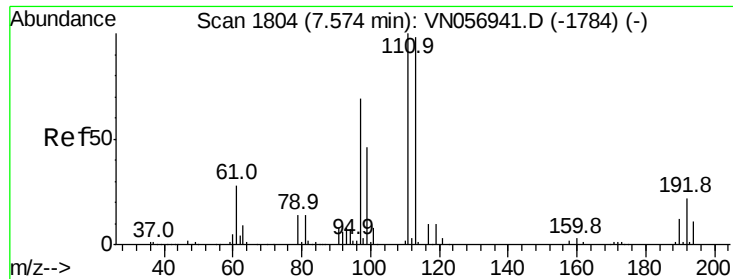
Tot Ion: 65 Resp: 311555  
 Ion Ratio Lower Upper  
 65 100  
 67 55.2 0.0 112.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.58 min Scan# 2116  
 Delta R.T. 0.00 min  
 Lab File: VN057067.D  
 Acq: 2 Aug 2019 15:28

Tgt Ion: 114 Resp: 800863  
 Ion Ratio Lower Upper  
 114 100  
 63 19.0 0.0 38.0  
 88 15.4 0.0 30.0





#35

Dibromofluoromethane

Concen: 55.269 ug/l

RT: 7.58 min Scan# 1806

Delta R.T. 0.01 min

Lab File: VN057067.D

Acq: 2 Aug 2019 15:28

Instrument :  
MSVOA\_N  
ClientSampled :  
Z3-0713

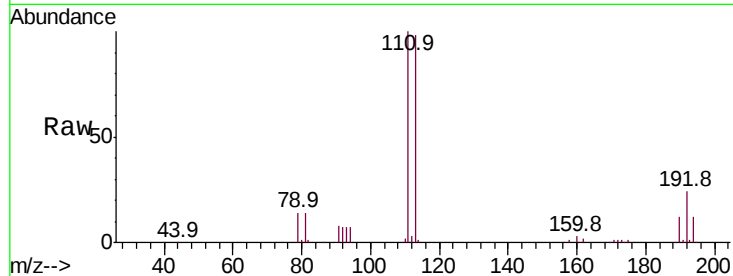
Tot Ion:113 Resp: 283356

Ion Ratio Lower Upper

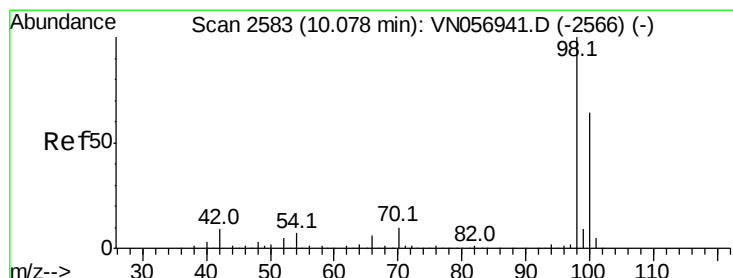
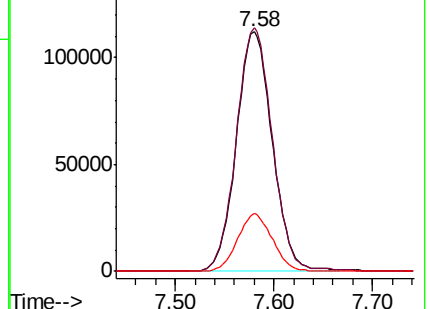
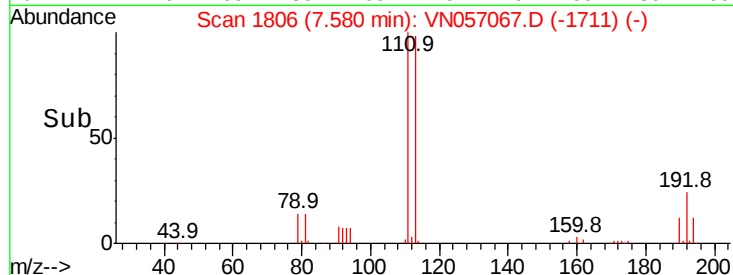
113 100

111 101.5 82.0 123.0

192 23.4 18.4 27.6



Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V



#50

Toluene-d8

Concen: 53.815 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.01 min

Lab File: VN057067.D

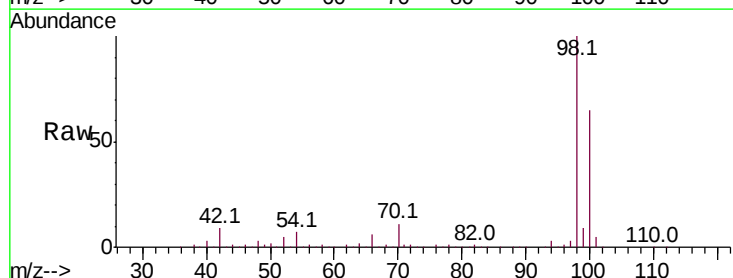
Acq: 2 Aug 2019 15:28

Tgt Ion: 98 Resp: 1052146

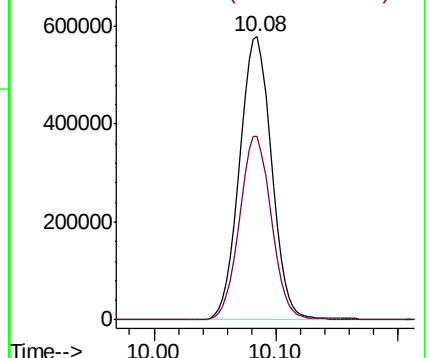
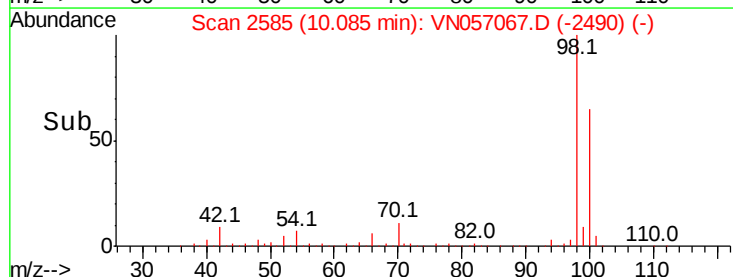
Ion Ratio Lower Upper

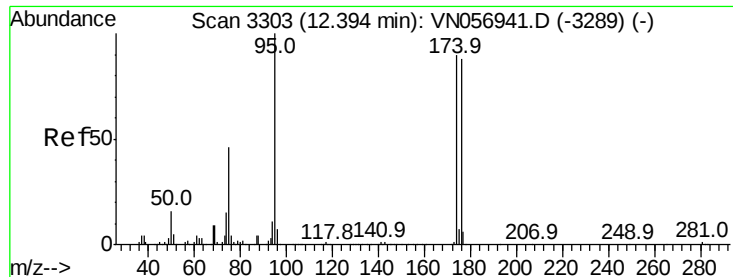
98 100

100 64.8 51.3 76.9



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





#62

4-Bromofluorobenzene

Concen: 44.595 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.01 min

Lab File: VN057067.D

Acq: 2 Aug 2019 15:28

Instrument :

MSVOA\_N

ClientSampleId :

Z3-0713

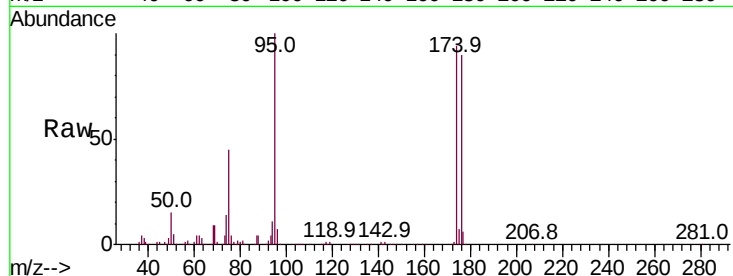
Tot Ion: 95 Resp: 283836

Ion Ratio Lower Upper

95 100

174 94.5 0.0 182.2

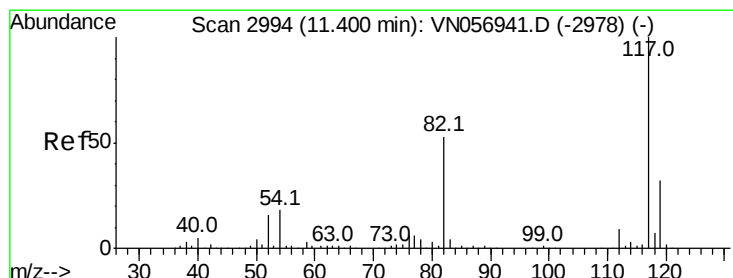
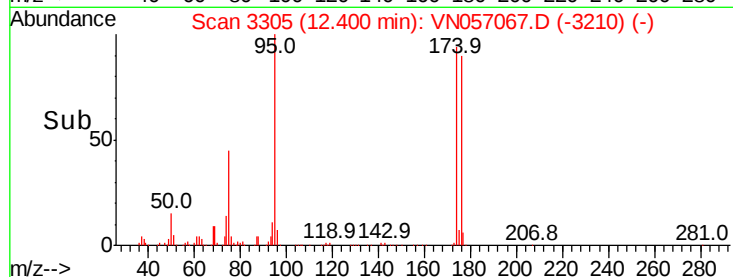
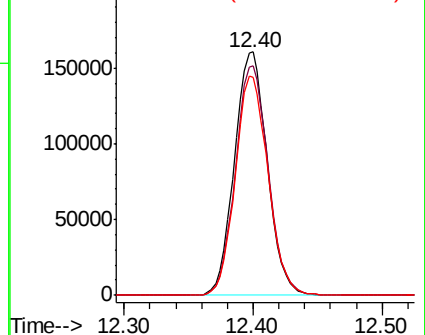
176 90.1 0.0 179.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN057067.D

Acq: 2 Aug 2019 15:28

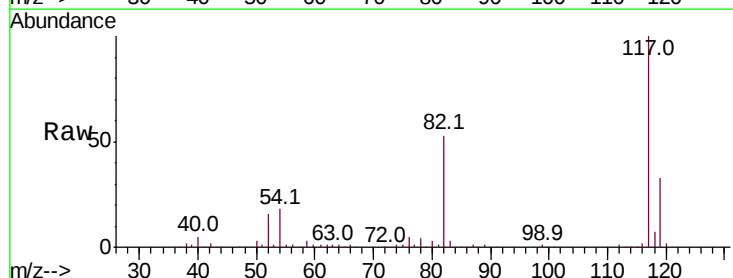
Tgt Ion: 117 Resp: 661692

Ion Ratio Lower Upper

117 100

82 53.1 42.2 63.4

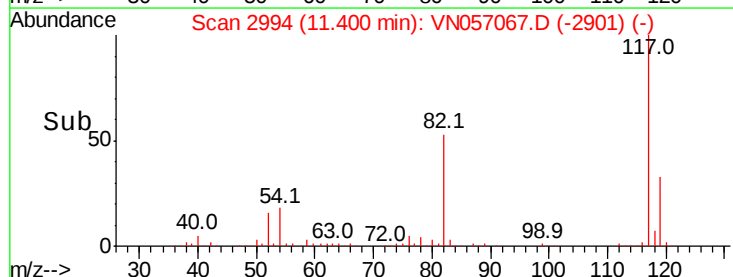
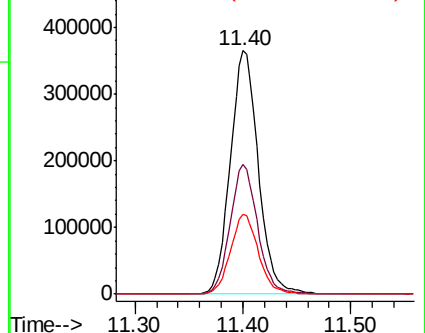
119 32.9 25.8 38.6

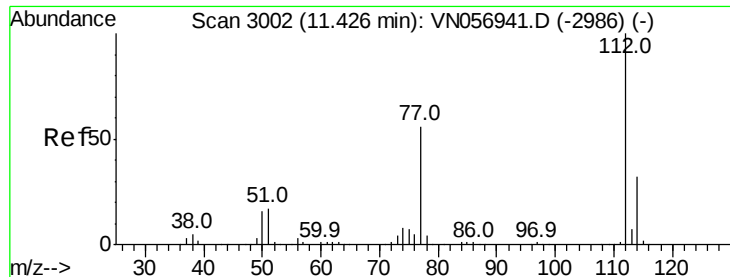


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

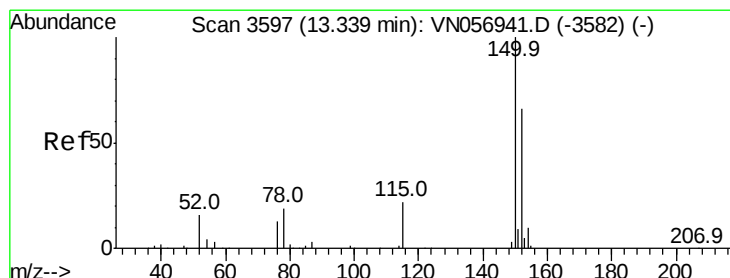
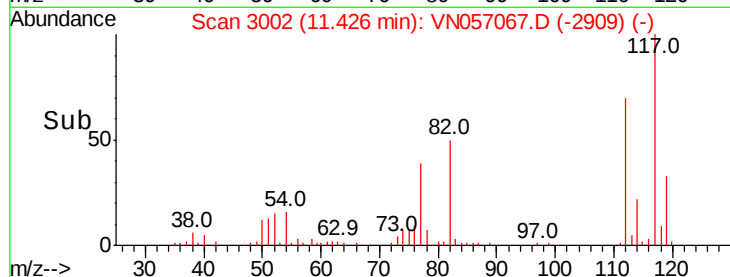
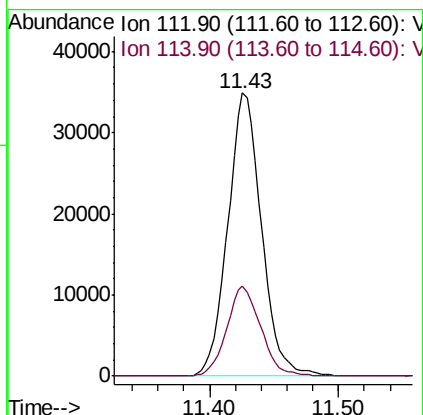
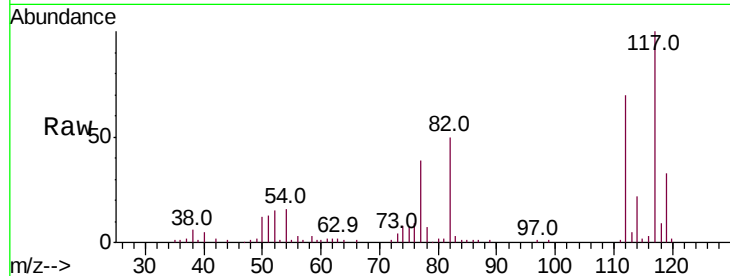




#65  
Chlorobenzene  
Concen: 4.685 ug/l  
RT: 11.43 min Scan# 3002  
Delta R.T. -0.00 min  
Lab File: VN057067.D  
Acq: 2 Aug 2019 15:28

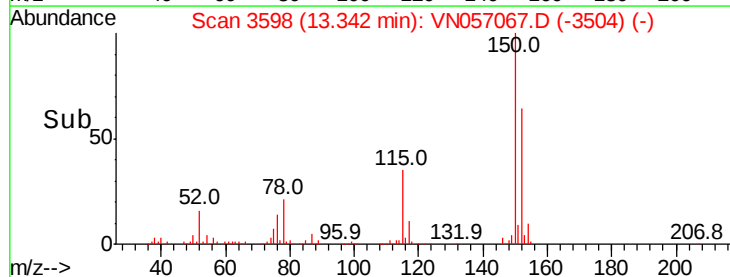
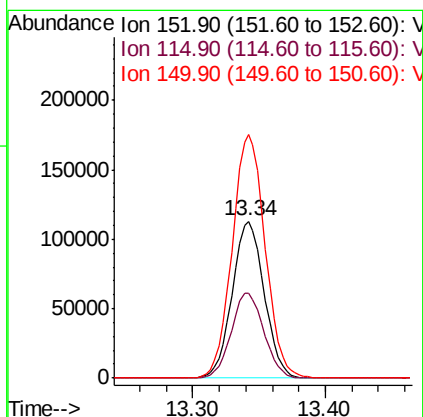
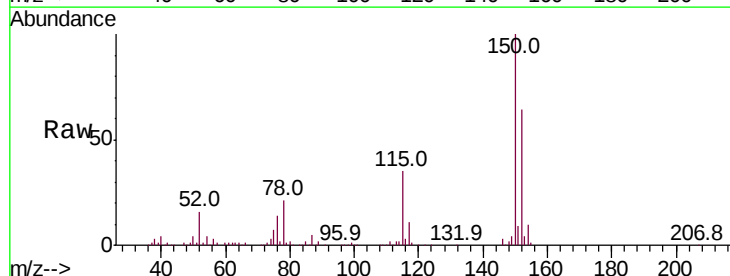
Instrument :  
MSVOA\_N  
ClientSampled :  
Z3-0713

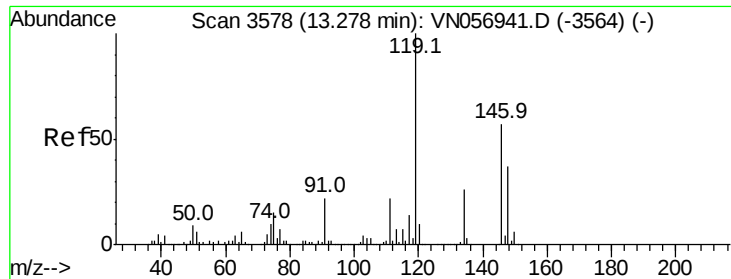
Tot Ion:112 Resp: 63180  
Ion Ratio Lower Upper  
112 100  
114 31.7 26.0 39.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. 0.00 min  
Lab File: VN057067.D  
Acq: 2 Aug 2019 15:28

Tgt Ion:152 Resp: 189159  
Ion Ratio Lower Upper  
152 100  
115 55.3 28.2 84.6  
150 159.2 0.0 349.4

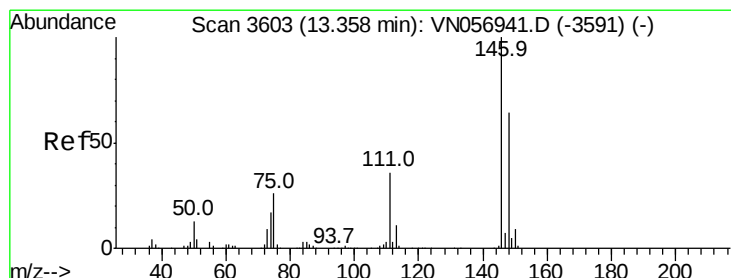
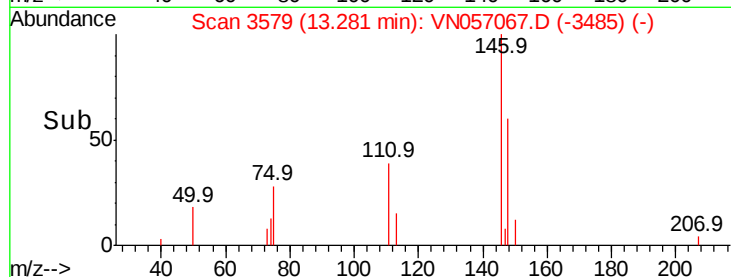
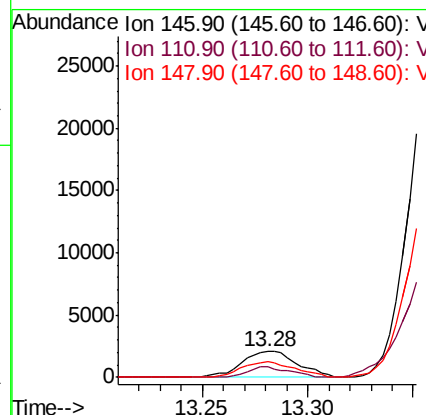
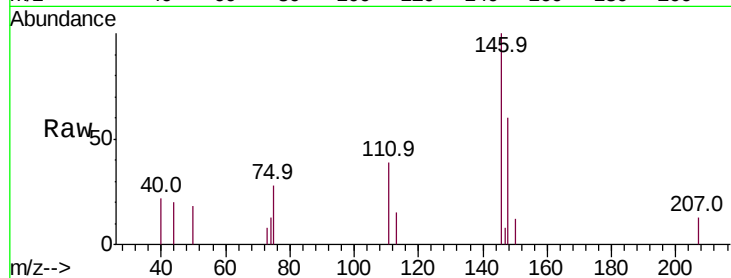




#87  
 1,3-Dichlorobenzene  
 Concen: 0.592 ug/l  
 RT: 13.28 min Scan# 3579  
 Delta R.T. 0.00 min  
 Lab File: VN057067.D  
 Acq: 2 Aug 2019 15:28

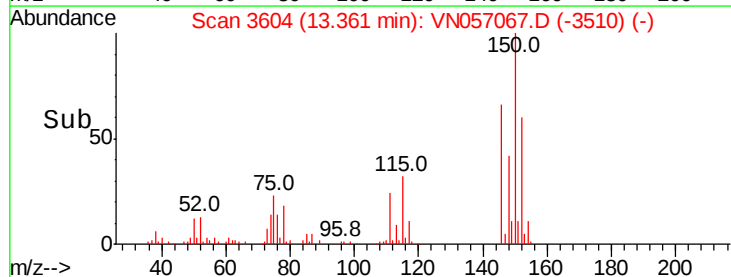
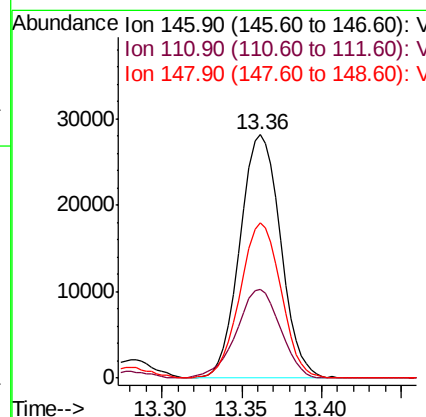
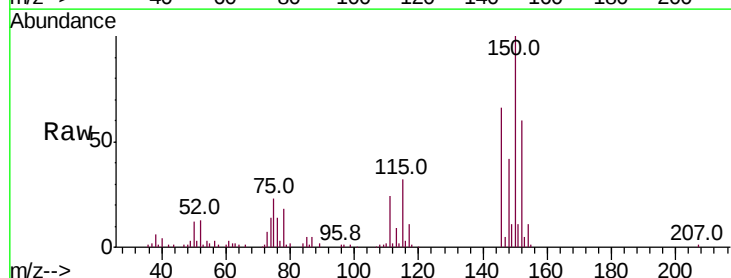
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 Z3-0713

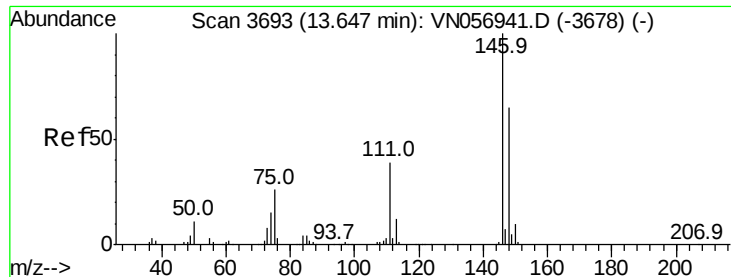
Tot Ion:146 Resp: 3841  
 Ion Ratio Lower Upper  
 146 100  
 111 30.8 18.6 55.8  
 148 56.5 32.2 96.6



#88  
 1,4-Dichlorobenzene  
 Concen: 7.808 ug/l  
 RT: 13.36 min Scan# 3604  
 Delta R.T. 0.00 min  
 Lab File: VN057067.D  
 Acq: 2 Aug 2019 15:28

Tgt Ion:146 Resp: 48782  
 Ion Ratio Lower Upper  
 146 100  
 111 39.5 18.4 55.2  
 148 64.3 32.3 96.9

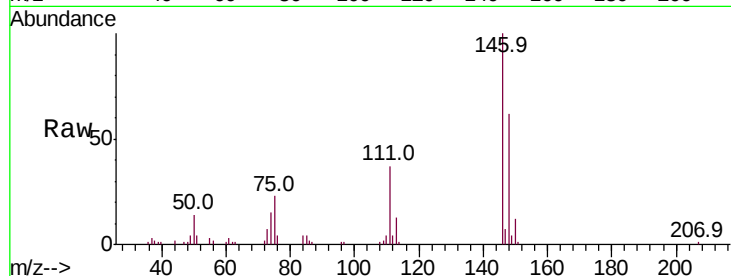




#91  
 1,2-Dichlorobenzene  
 Concen: 7.039 ug/l  
 RT: 13.65 min Scan# 3694  
 Delta R.T. 0.00 min  
 Lab File: VN057067.D  
 Acq: 2 Aug 2019 15:28

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 Z3-0713

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 38.3  | 19.4  | 58.4  |
| 148     | 63.0  | 32.2  | 96.6  |



Abundance Ion 145.90 (145.60 to 146.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 147.90 (147.60 to 148.60): V

