

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071519\  
 Data File : VN056746.D  
 Acq On : 16 Jul 2019 5:13  
 Operator : JC/SP  
 Sample : K3620-04  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CL-01-071219-B

Quant Time: Jul 16 06:42:26 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N071519W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 16 01:25:25 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.67  | 168  | 286075   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.59  | 114  | 516346   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.41 | 117  | 553527   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.34 | 152  | 244484   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.03  | 65   | 168134   | 53.13 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 106.26% |          |
| 35) Dibromofluoromethane    | 7.59  | 113  | 152798   | 47.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 95.10%  |          |
| 50) Toluene-d8              | 10.09 | 98   | 648361   | 52.24 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 104.48% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 256813   | 61.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 122.72% |          |

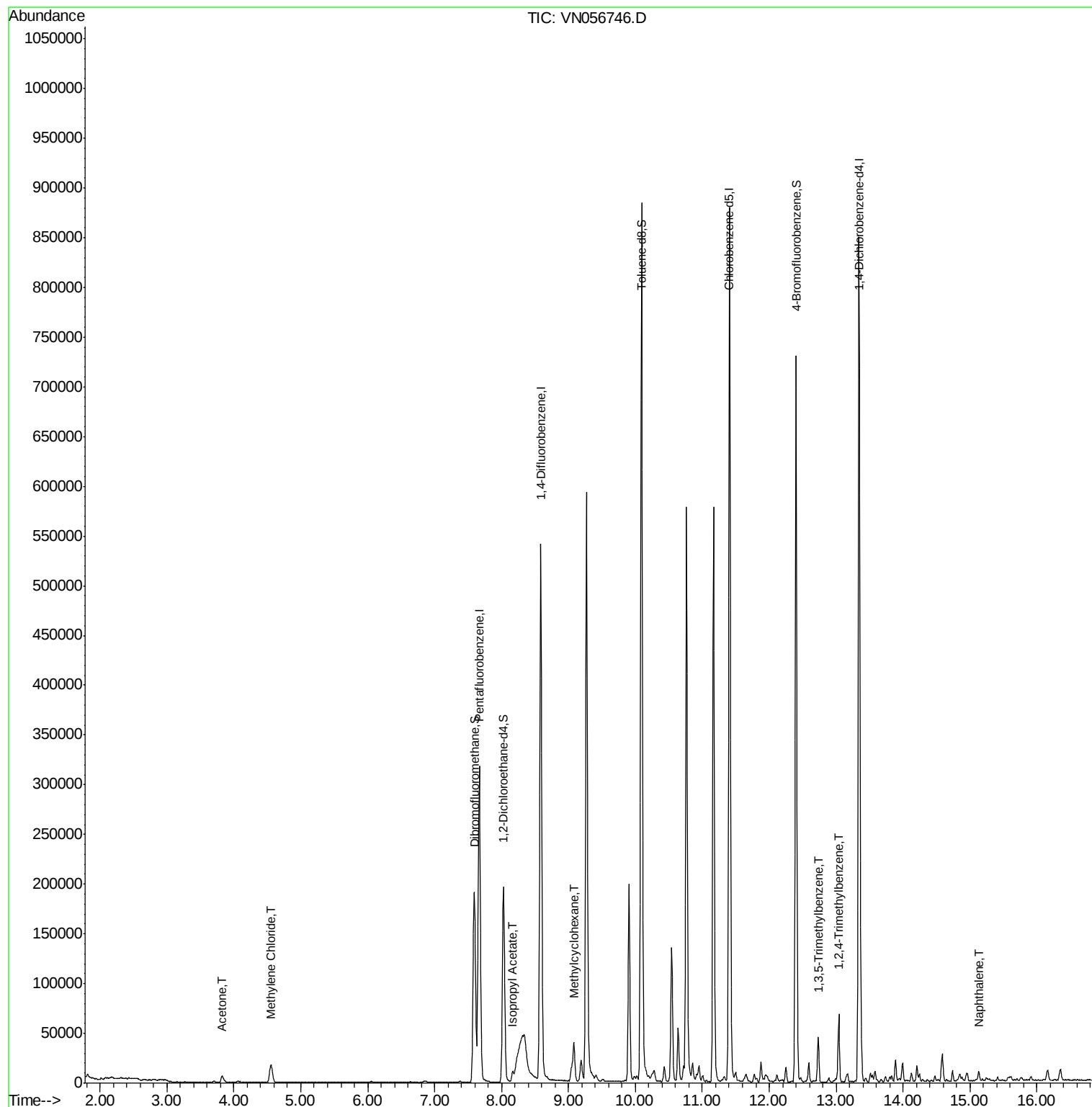
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 16) Acetone                | 3.82  | 43   | 12185    | 8.356 | ug/l  | 93     |
| 20) Methylene Chloride     | 4.55  | 84   | 14727    | 4.621 | ug/l  | 95     |
| 39) Methylcyclohexane      | 9.08  | 83   | 16291    | 2.761 | ug/l  | 99     |
| 43) Isopropyl Acetate      | 8.17  | 43   | 10863    | 1.467 | ug/l  | 96     |
| 80) 1,3,5-Trimethylbenzene | 12.73 | 105  | 25462    | 1.524 | ug/l  | 98     |
| 84) 1,2,4-Trimethylbenzene | 13.04 | 105  | 40314    | 2.470 | ug/l  | 99     |
| 95) Naphthalene            | 15.13 | 128  | 9829     | 5.208 | ug/l  | 96     |

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

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Quant Title : SW846 8260  
QLast Update : Tue Jul 16 01:25:25 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056746.D

Acq: 16 Jul 2019 5:13

Instrument :

MSVOA\_N

ClientSampled :

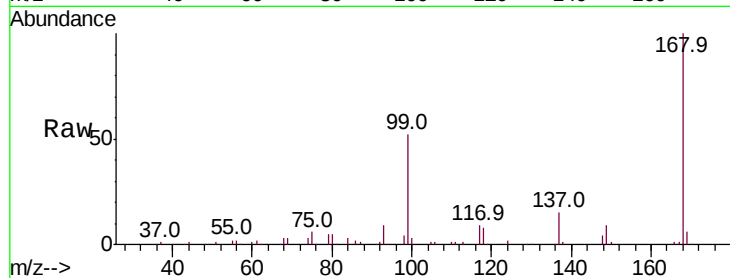
CL-01-071219-B

Tot Ion:168 Resp: 286075

Ion Ratio Lower Upper

168 100

99 52.3 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

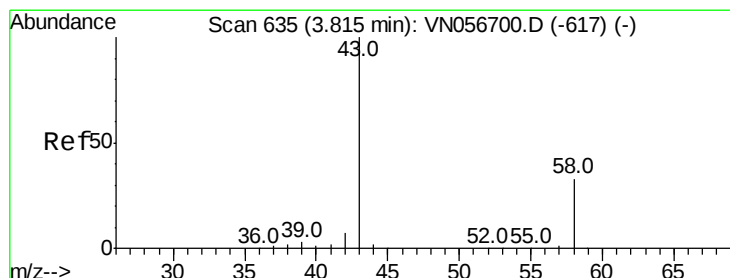
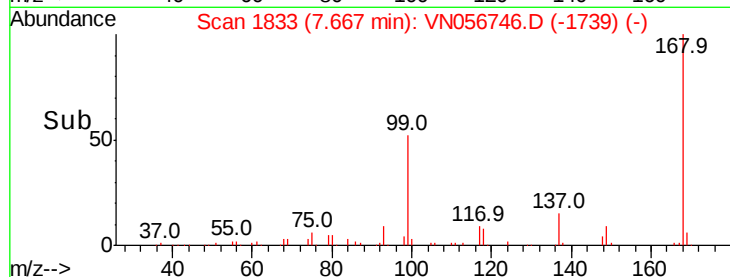
7.67

100000

50000

0

Time-->



#16

Acetone

Concen: 8.356 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056746.D

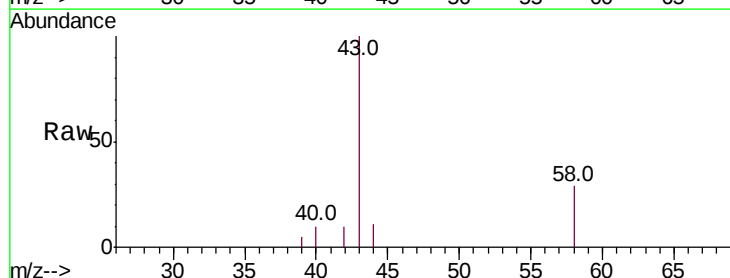
Acq: 16 Jul 2019 5:13

Tgt Ion: 43 Resp: 12185

Ion Ratio Lower Upper

43 100

58 29.3 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.82

5000

4000

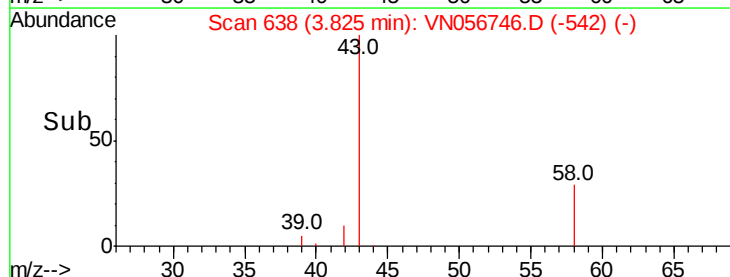
3000

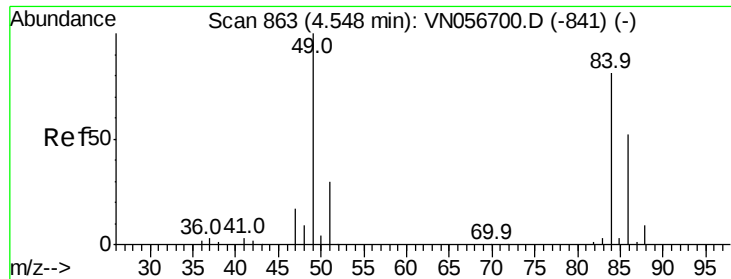
2000

1000

0

Time-->

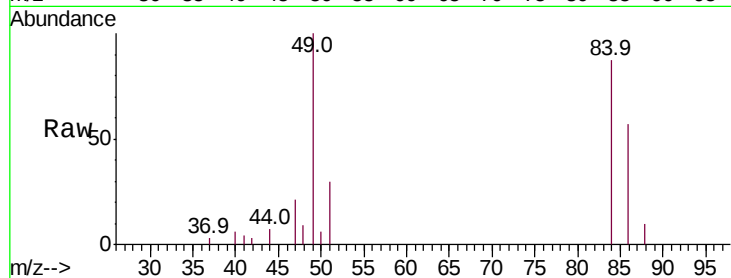




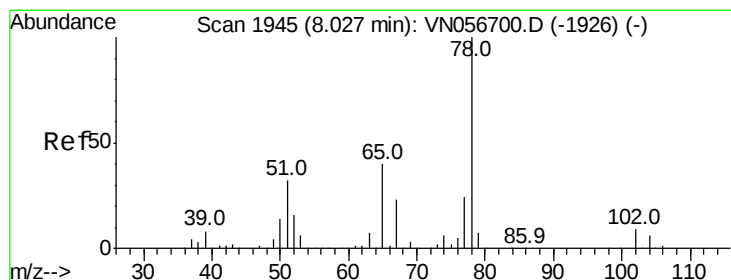
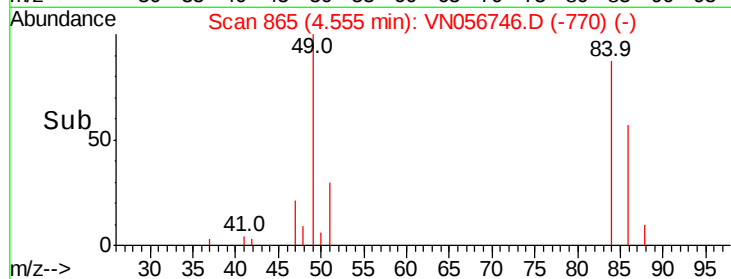
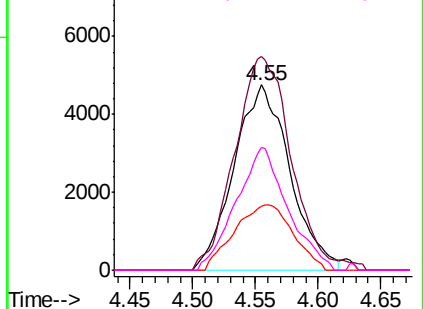
#20  
Methvlene Chloride  
Concen: 4.621 ug/l  
RT: 4.55 min Scan# 865  
Delta R.T. 0.01 min  
Lab File: VN056746.D  
Acq: 16 Jul 2019 5:13

Instrument :  
MSVOA\_N  
ClientSampleId :  
CL-01-071219-B

Tot Ion: 84 Resp: 14727  
Ion Ratio Lower Upper  
84 100  
49 115.3 98.2 147.4  
51 34.6 29.6 44.4  
86 66.2 51.0 76.4

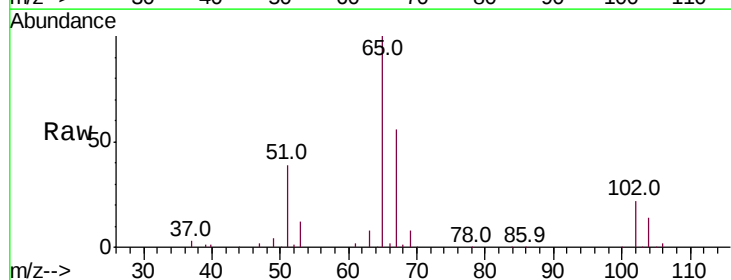


Abundance Ion 83.90 (83.60 to 84.60): VNO  
Ion 48.90 (48.60 to 49.60): VNO  
Ion 50.90 (50.60 to 51.60): VNO  
Ion 85.90 (85.60 to 86.60): VNO

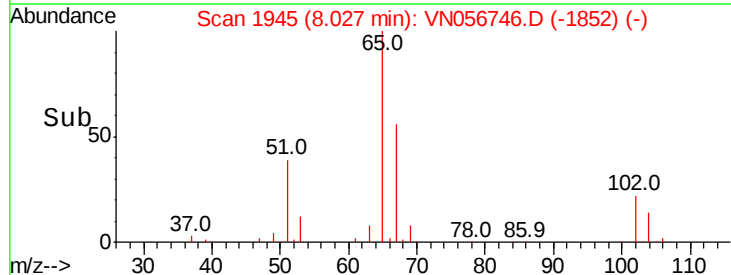
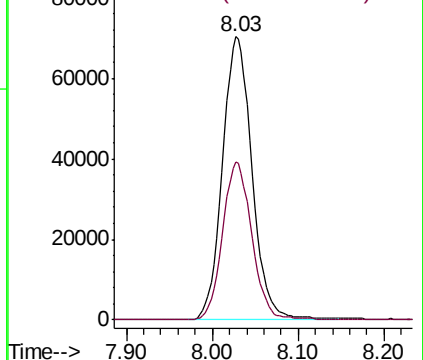


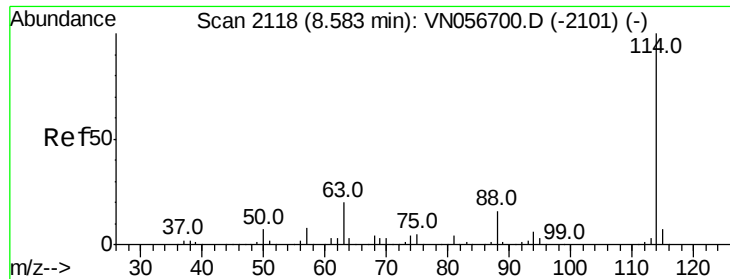
#33  
1,2-Dichloroethane-d4  
Concen: 53.133 ug/l  
RT: 8.03 min Scan# 1945  
Delta R.T. 0.00 min  
Lab File: VN056746.D  
Acq: 16 Jul 2019 5:13

Tgt Ion: 65 Resp: 168134  
Ion Ratio Lower Upper  
65 100  
67 55.2 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VNO  
Ion 66.90 (66.60 to 67.60): VNO

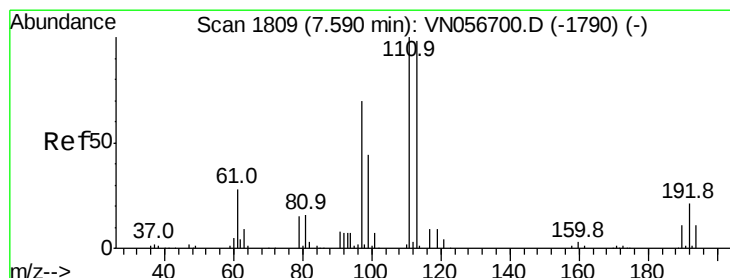
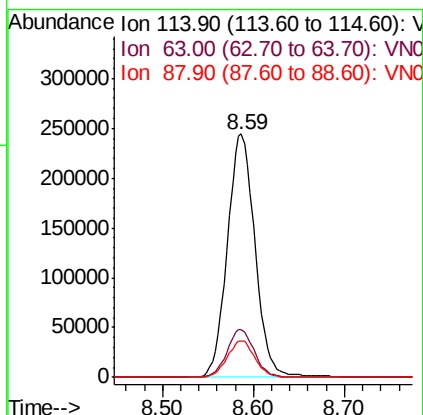
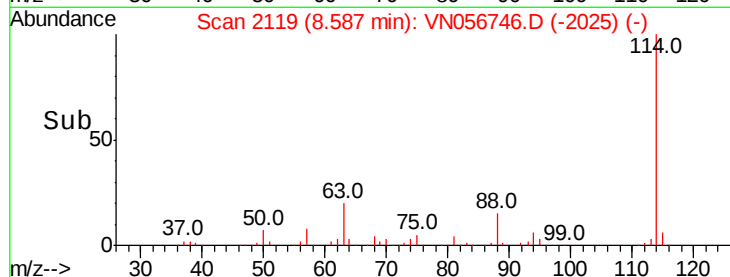
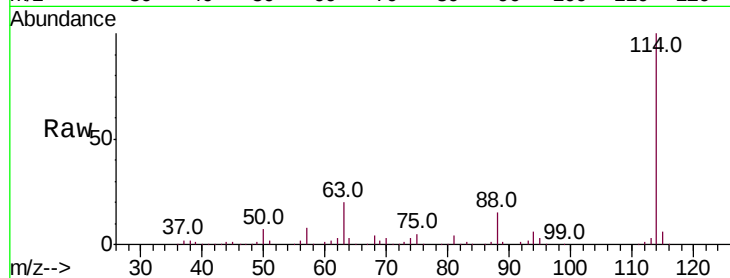




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN056746.D  
 Acq: 16 Jul 2019 5:13

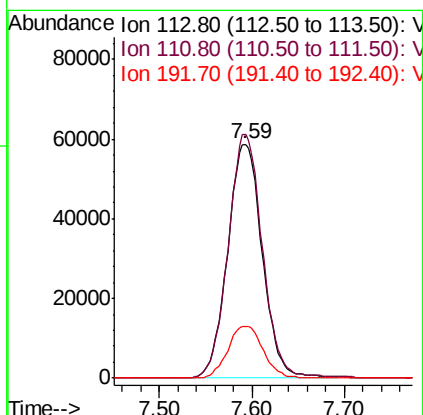
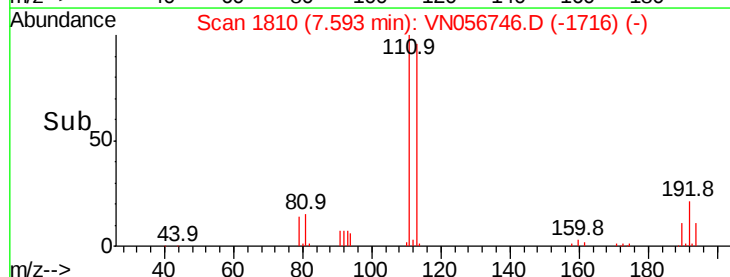
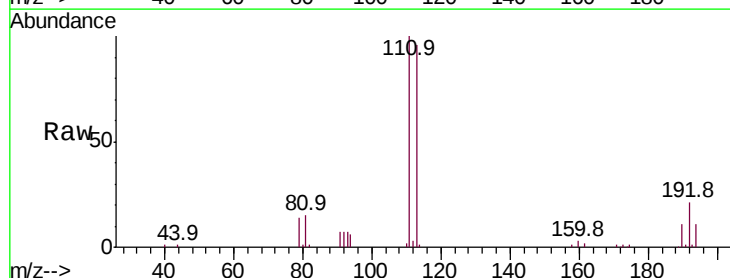
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CL-01-071219-B

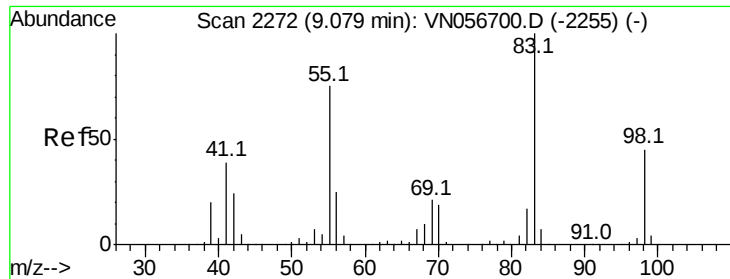
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.6  | 0.0   | 39.4  |
| 88      | 15.2  | 0.0   | 31.2  |



#35  
 Dibromofluoromethane  
 Concen: 47.551 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN056746.D  
 Acq: 16 Jul 2019 5:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.8 | 81.8  | 122.6 |
| 192     | 22.4  | 17.5  | 26.3  |

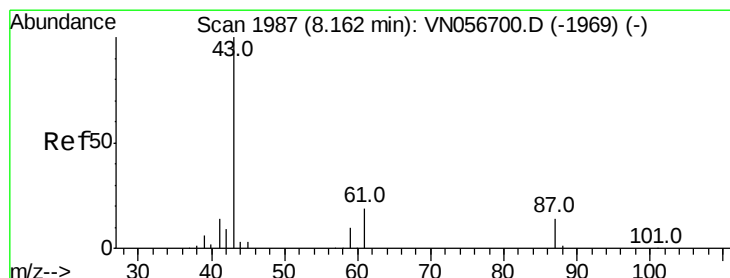
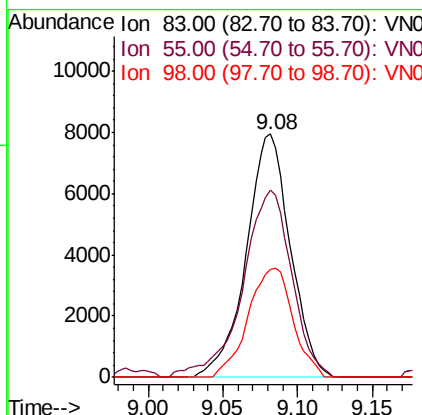
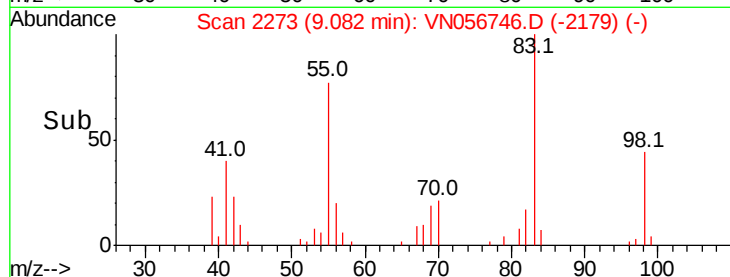
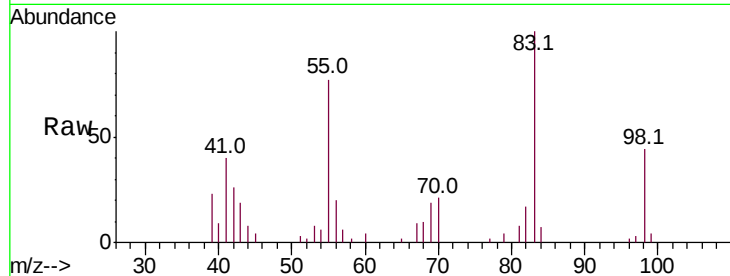




#39  
Methvlcvclohexane  
Concen: 2.761 ug/l  
RT: 9.08 min Scan# 2273  
Delta R.T. 0.00 min  
Lab File: VN056746.D  
Acq: 16 Jul 2019 5:13

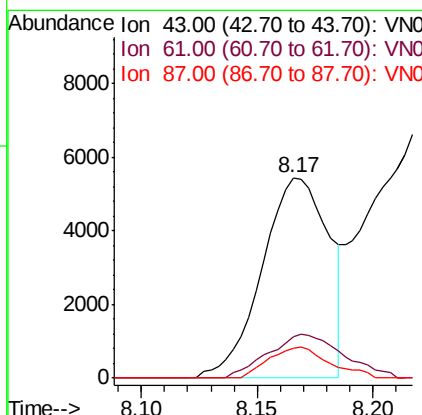
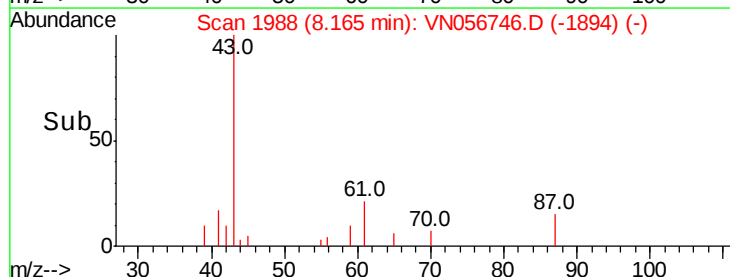
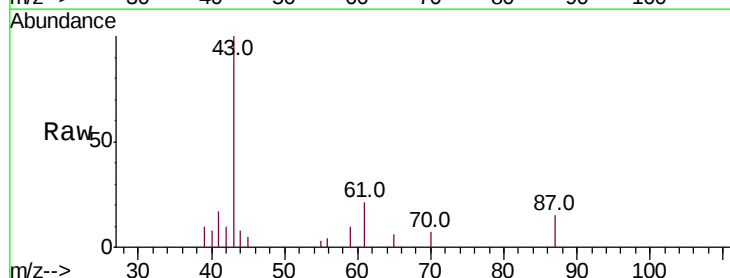
Instrument :  
MSVOA\_N  
ClientSampleId :  
CL-01-071219-B

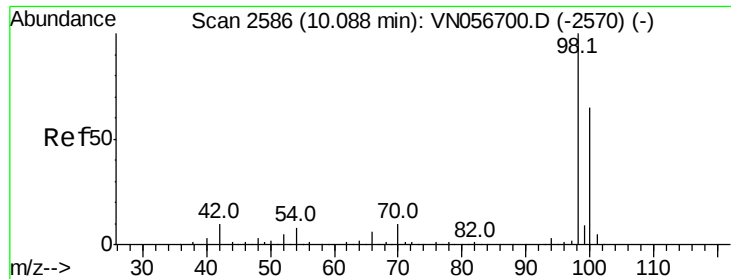
Tot Ion: 83 Resp: 16291  
Ion Ratio Lower Upper  
83 100  
55 76.9 60.4 90.6  
98 44.1 35.8 53.8



#43  
Isopropyl Acetate  
Concen: 1.467 ug/l  
RT: 8.17 min Scan# 1988  
Delta R.T. 0.00 min  
Lab File: VN056746.D  
Acq: 16 Jul 2019 5:13

Tgt Ion: 43 Resp: 10863  
Ion Ratio Lower Upper  
43 100  
61 24.6 22.3 33.5  
87 14.2 11.1 16.7





#50

Toluene-d8

Concen: 52.242 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056746.D

Acq: 16 Jul 2019 5:13

Instrument :

MSVOA\_N

ClientSampleId :

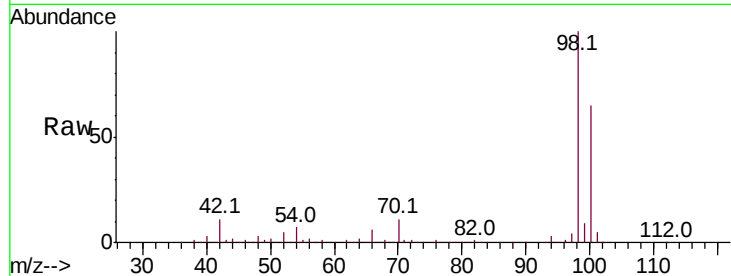
CL-01-071219-B

Tot Ion: 98 Resp: 648361

Ion Ratio Lower Upper

98 100

100 65.0 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN056700.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN056700.D (-2570) (-)

10.09

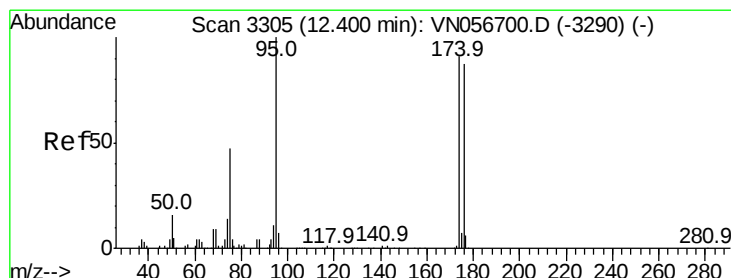
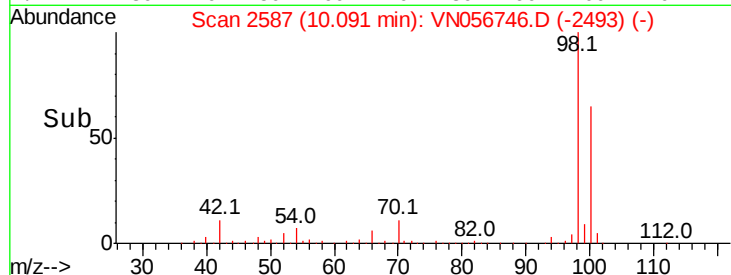
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 61.361 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056746.D

Acq: 16 Jul 2019 5:13

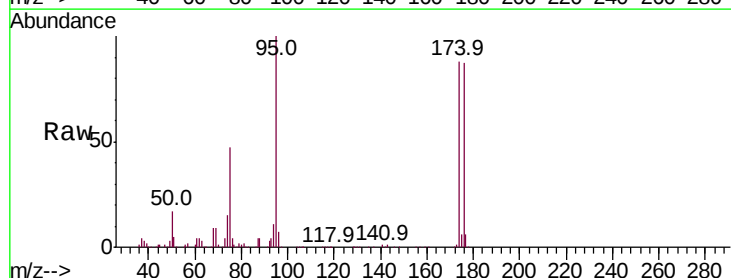
Tgt Ion: 95 Resp: 256813

Ion Ratio Lower Upper

95 100

174 88.8 0.0 180.0

176 86.9 0.0 173.2



Abundance Ion 94.90 (94.60 to 95.60): VN056700.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN056700.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN056700.D (-3290) (-)

12.40

200000

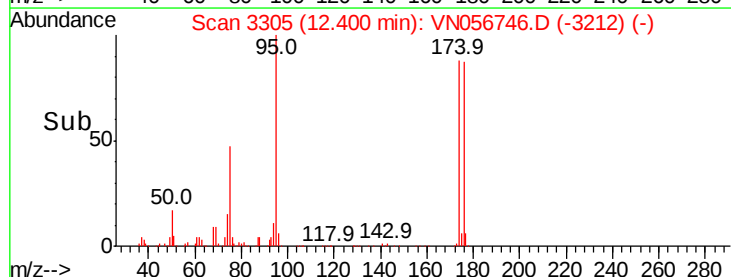
150000

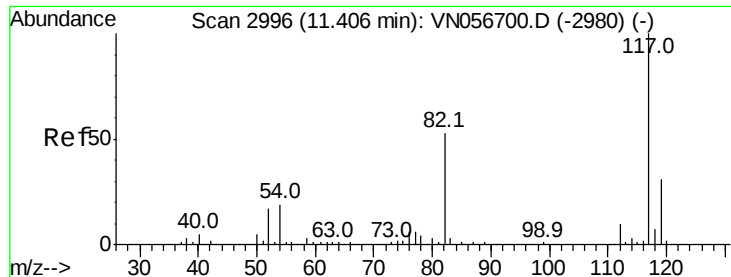
100000

50000

0

Time-->

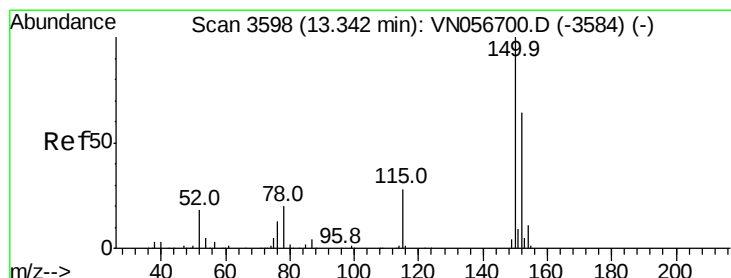
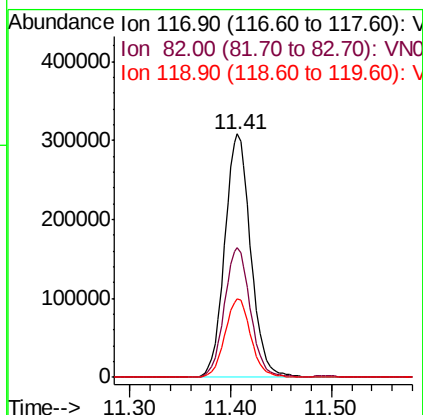
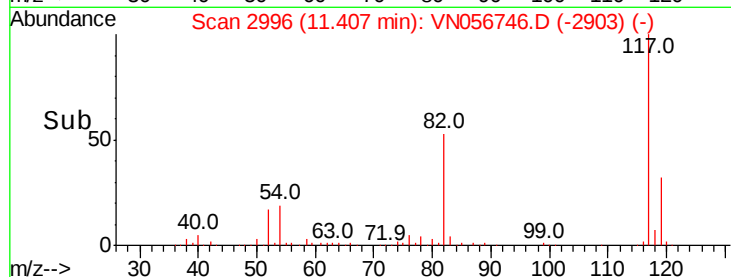
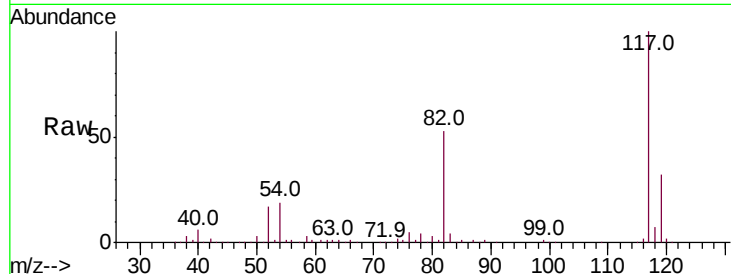




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN056746.D  
Acq: 16 Jul 2019 5:13

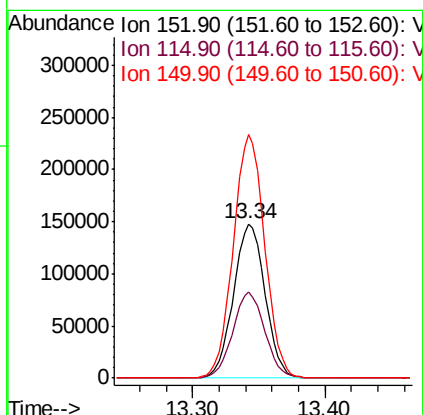
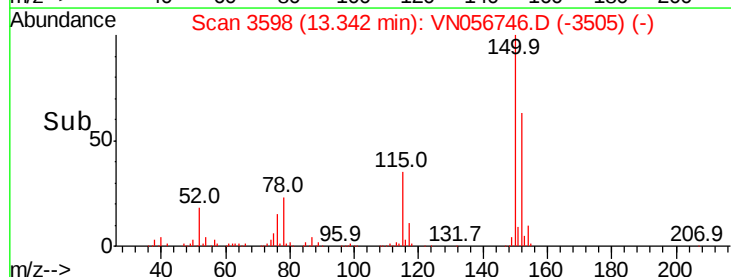
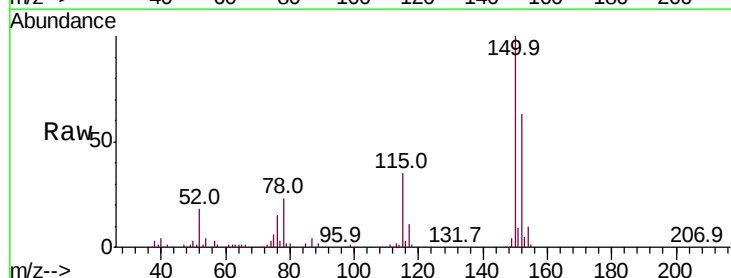
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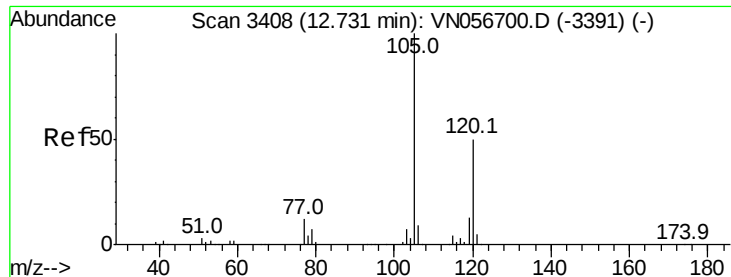
Tot Ion:117 Resp: 553527  
Ion Ratio Lower Upper  
117 100  
82 53.4 42.2 63.2  
119 32.4 25.2 37.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.34 min Scan# 3598  
Delta R.T. 0.00 min  
Lab File: VN056746.D  
Acq: 16 Jul 2019 5:13

Tgt Ion:152 Resp: 244484  
Ion Ratio Lower Upper  
152 100  
115 56.6 28.2 84.7  
150 157.0 0.0 345.8

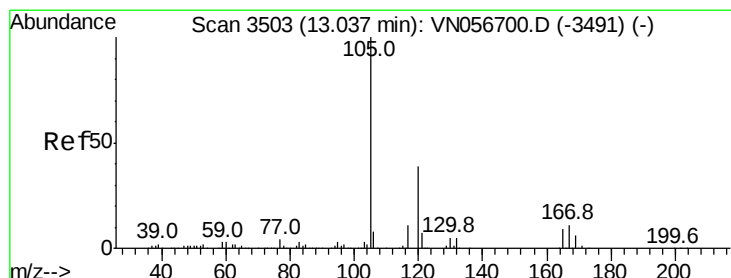
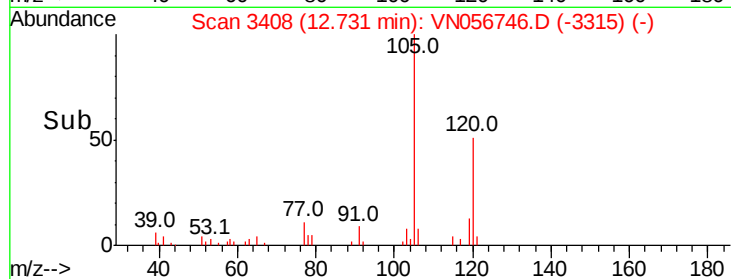
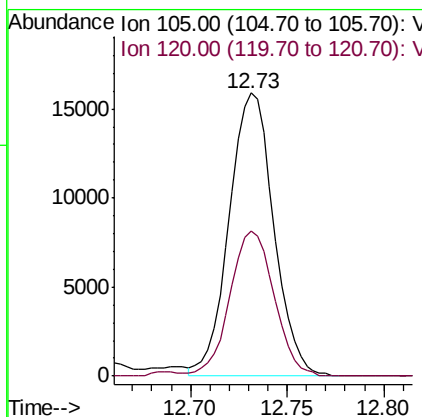
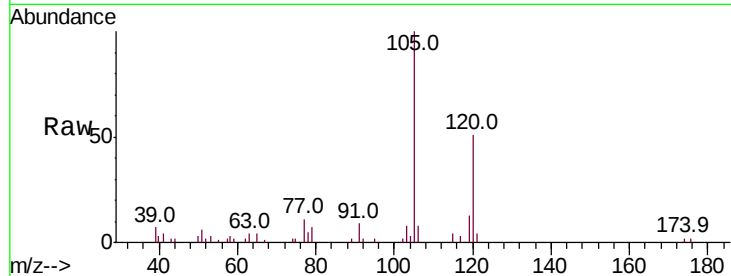




#80  
 1,3,5-Trimethylbenzene  
 Concen: 1.524 ug/l  
 RT: 12.73 min Scan# 3408  
 Delta R.T. 0.00 min  
 Lab File: VN056746.D  
 Acq: 16 Jul 2019 5:13

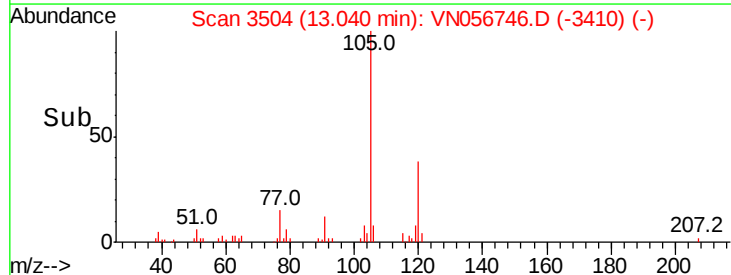
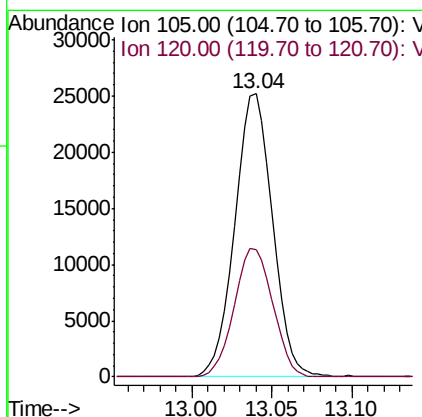
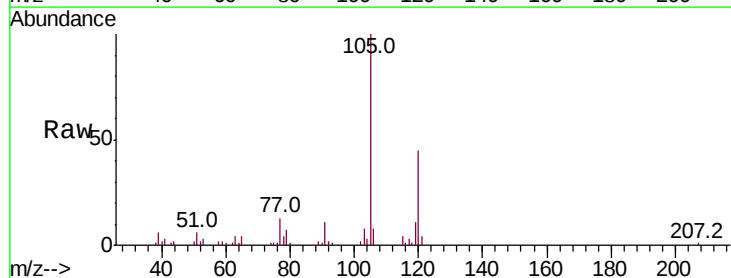
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CL-01-071219-B

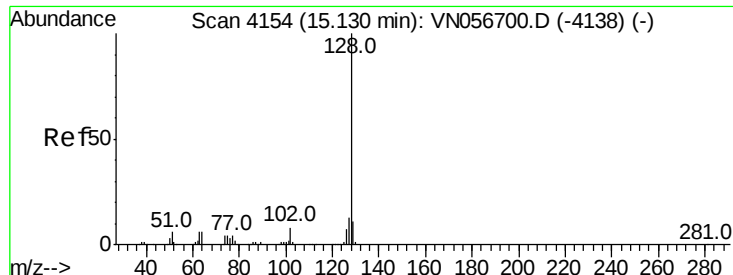
Tot Ion:105 Resp: 25462  
 Ion Ratio Lower Upper  
 105 100  
 120 50.8 24.8 74.3



#84  
 1,2,4-Trimethylbenzene  
 Concen: 2.470 ug/l  
 RT: 13.04 min Scan# 3504  
 Delta R.T. 0.00 min  
 Lab File: VN056746.D  
 Acq: 16 Jul 2019 5:13

Tgt Ion:105 Resp: 40314  
 Ion Ratio Lower Upper  
 105 100  
 120 46.4 22.9 68.8





#95

Naphthalene

Concen: 5.208 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN056746.D

Acq: 16 Jul 2019 5:13

Instrument :

MSVOA\_N

ClientSampleId :

CL-01-071219-B

Tot Ion:128 Resp: 9829

Ion Ratio Lower Upper

128 100

127 11.3 10.3 15.5

129 12.6 8.7 13.1

