

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111219\  
 Data File : VN059192.D  
 Acq On : 12 Nov 2019 15:51  
 Operator : JC/SP  
 Sample : K5799-07  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LTM-RB-6-SRI4

Quant Time: Nov 13 07:04:16 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N110619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 07 04:00:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.64  | 168  | 443961   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.57  | 114  | 688984   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.40 | 117  | 607093   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.35 | 152  | 226057   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.00  | 65   | 290795   | 53.28 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 106.56% |          |
| 35) Dibromofluoromethane    | 7.57  | 113  | 224499   | 54.57 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 109.14% |          |
| 50) Toluene-d8              | 10.08 | 98   | 857927   | 52.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 105.88% |          |
| 62) 4-Bromofluorobenzene    | 12.40 | 95   | 278835   | 47.72 | ug/l    | 0.00     |
| Spiked Amount               |       |      |          |       |         |          |
|                             |       |      | Recovery | =     | 95.44%  |          |

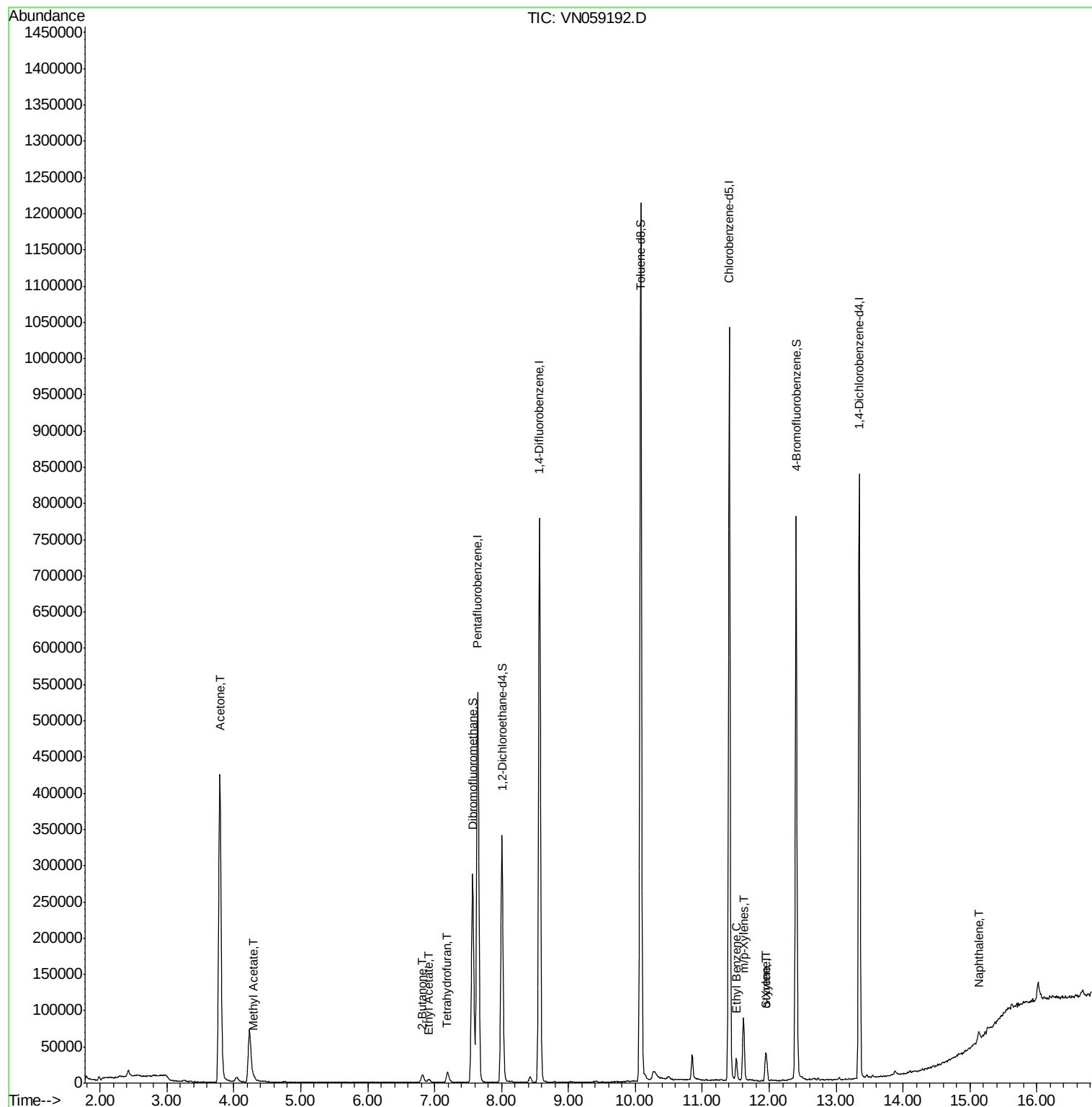
| Target Compounds    | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|---------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone         | 3.79  | 43   | 699161   | 246.360 | ug/l   | 99     |
| 18) Methyl Acetate  | 4.30  | 43   | 4699     | 0.698   | ug/l # | 90     |
| 25) 2-Butanone      | 6.82  | 43   | 19778    | 5.288   | ug/l   | 97     |
| 29) Tetrahydrofuran | 7.19  | 42   | 12543    | 5.278   | ug/l   | 93     |
| 37) Ethyl Acetate   | 6.91  | 43   | 6468     | 0.903   | ug/l # | 74     |
| 67) Ethyl Benzene   | 11.51 | 91   | 22061    | 1.051   | ug/l   | 99     |
| 68) m/p-Xylenes     | 11.62 | 106  | 26026    | 3.309   | ug/l   | 93     |
| 69) o-Xylene        | 11.95 | 106  | 8996     | 1.184   | ug/l   | 99     |
| 70) Styrene         | 11.96 | 104  | 10389    | 0.869   | ug/l   | 93     |
| 95) Naphthalene     | 15.13 | 128  | 8589     | 3.733   | ug/l # | 96     |

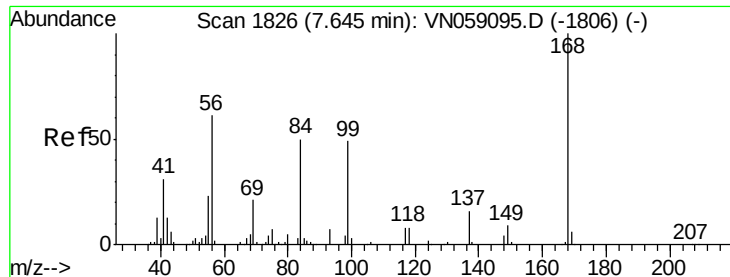
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN111219\  
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Instrument :  
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ClientSampleId :  
LTM-RB-6-SRI4

Quant Time: Nov 13 07:04:16 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N110619W.M  
Quant Title : SW846 8260  
QLast Update : Thu Nov 07 04:00:41 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059192.D

Acq: 12 Nov 2019 15:51

Instrument :

MSVOA\_N

ClientSampleId :

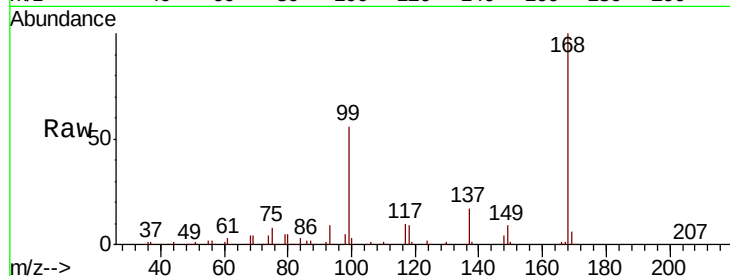
LTM-RB-6-SRI4

Tot Ion:168 Resp: 443961

Ion Ratio Lower Upper

168 100

99 55.6 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): VN059192.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN059192.D (-1733) (-)

7.64

200000

150000

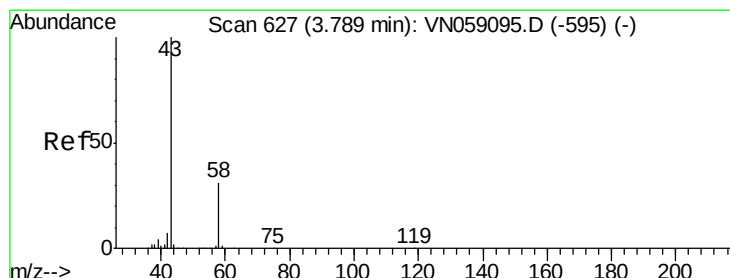
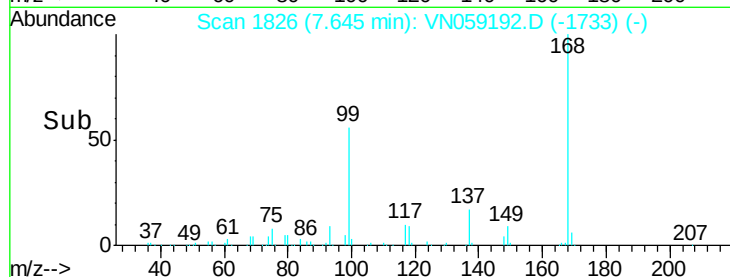
100000

50000

0

7.60 7.70

Time-->



#16

Acetone

Concen: 246.360 ug/l

RT: 3.79 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN059192.D

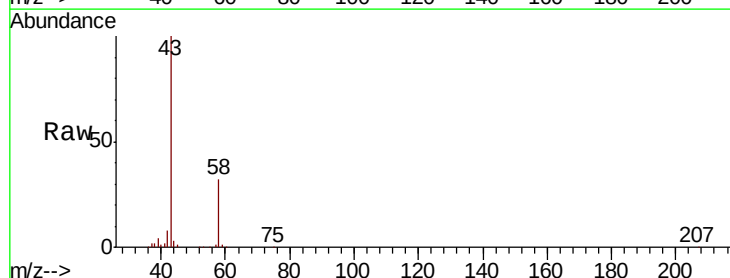
Acq: 12 Nov 2019 15:51

Tgt Ion: 43 Resp: 699161

Ion Ratio Lower Upper

43 100

58 31.5 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN059192.D (-534) (-)

Ion 58.00 (57.70 to 58.70): VN059192.D (-534) (-)

3.79

300000

250000

200000

150000

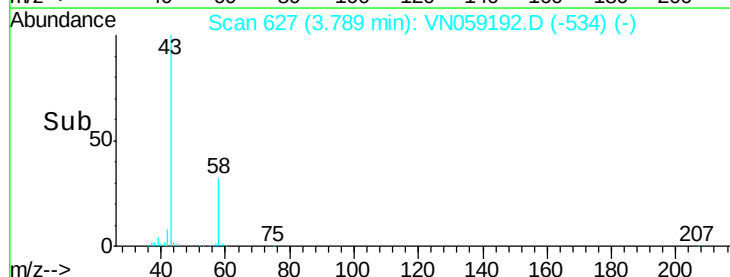
100000

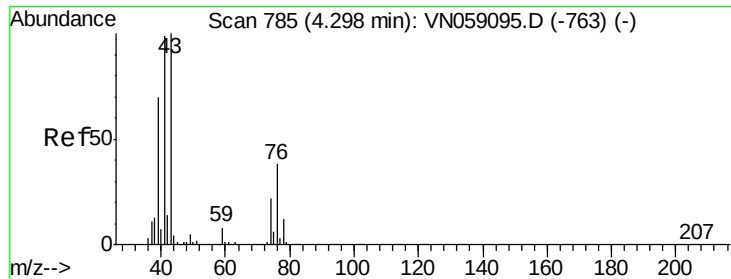
50000

0

3.70 3.80 3.90

Time-->

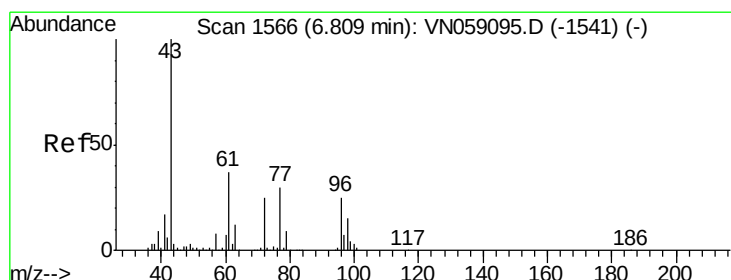
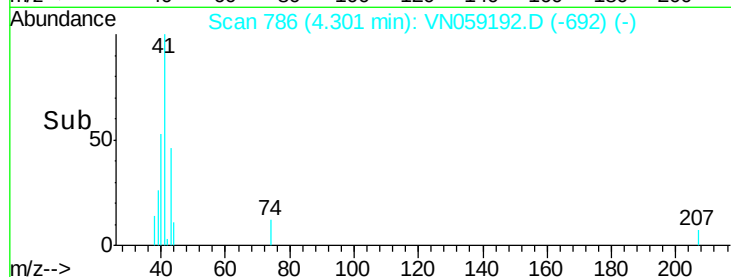
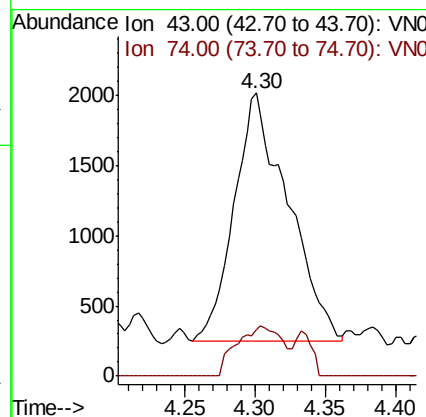
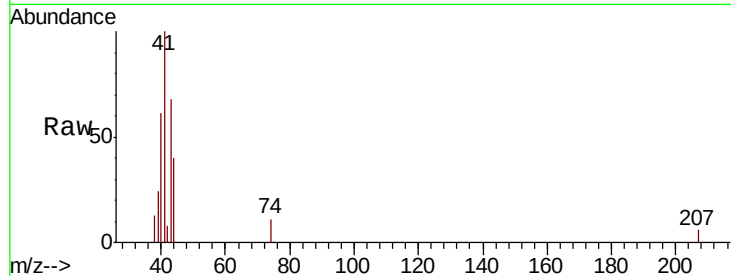




#18  
Methyl Acetate  
Concen: 0.698 ug/l  
RT: 4.30 min Scan# 786  
Delta R.T. 0.00 min  
Lab File: VN059192.D  
Acq: 12 Nov 2019 15:51

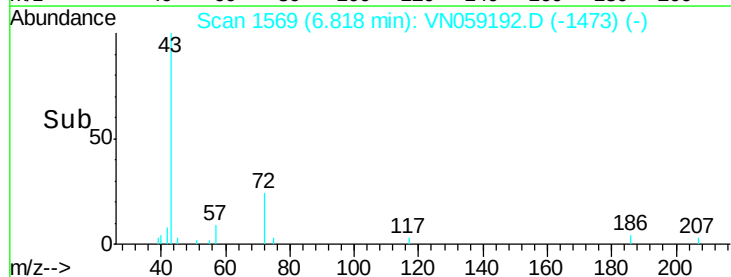
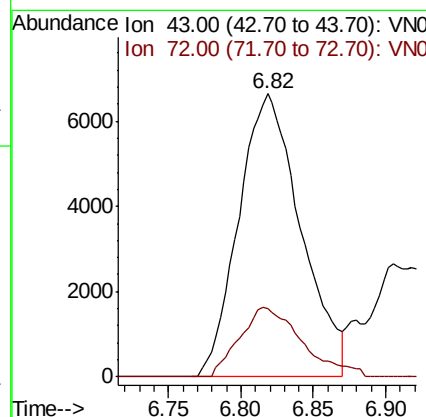
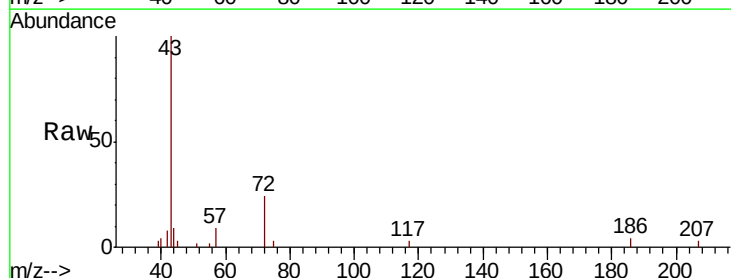
Instrument :  
MSVOA\_N  
ClientSampled :  
LTM-RB-6-SRI4

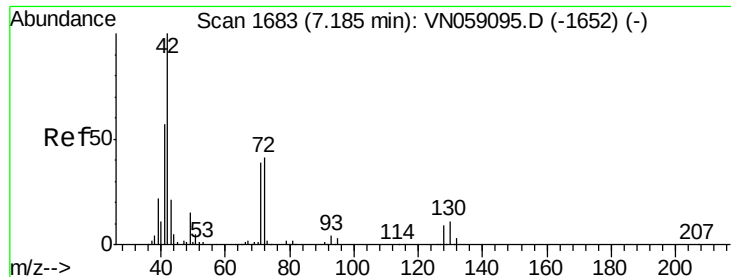
Tot Ion: 43 Resp: 4699  
Ion Ratio Lower Upper  
43 100  
74 17.5 17.8 26.8#



#25  
2-Butanone  
Concen: 5.288 ug/l  
RT: 6.82 min Scan# 1569  
Delta R.T. 0.01 min  
Lab File: VN059192.D  
Acq: 12 Nov 2019 15:51

Tgt Ion: 43 Resp: 19778  
Ion Ratio Lower Upper  
43 100  
72 24.0 20.3 30.5

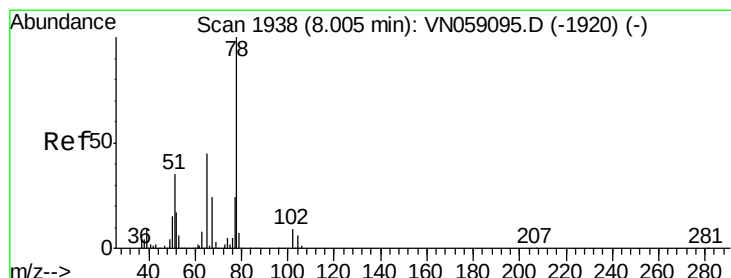
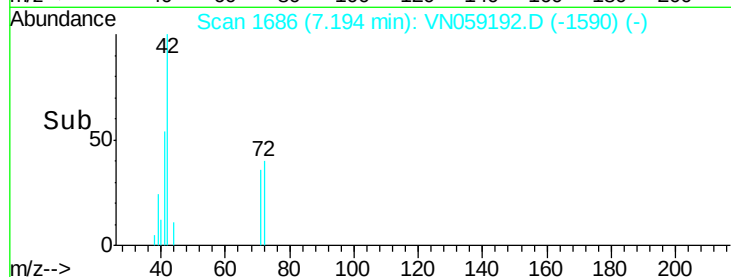
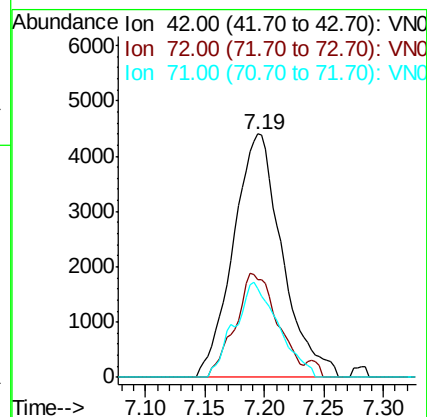
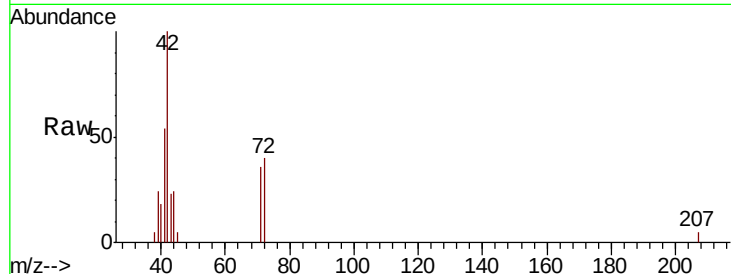




#29  
Tetrahydrofuran  
Concen: 5.278 ug/l  
RT: 7.19 min Scan# 1686  
Delta R.T. 0.01 min  
Lab File: VN059192.D  
Acq: 12 Nov 2019 15:51

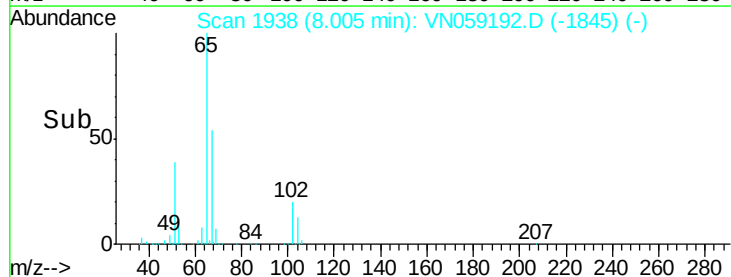
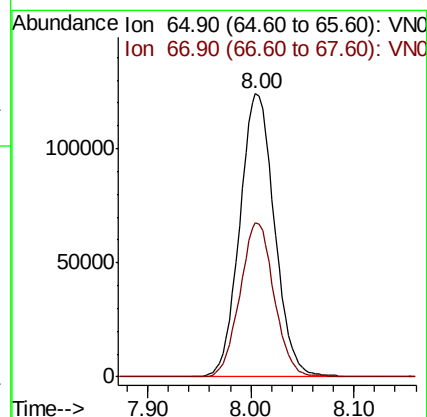
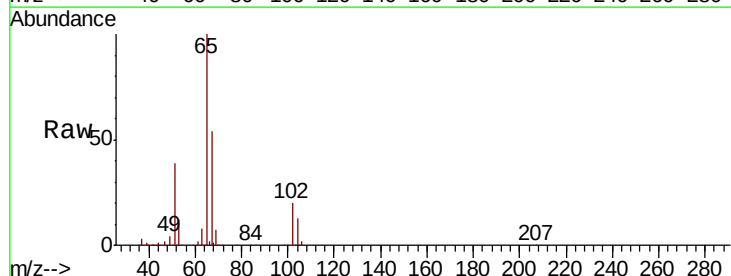
Instrument :  
MSVOA\_N  
ClientSampleId :  
LTM-RB-6-SRI4

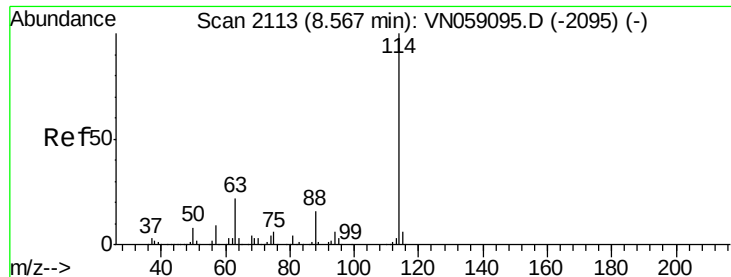
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 36.8  | 33.1  | 49.7  |
| 71      | 34.9  | 30.9  | 46.3  |



#33  
1,2-Dichloroethane-d4  
Concen: 53.284 ug/l  
RT: 8.00 min Scan# 1938  
Delta R.T. -0.00 min  
Lab File: VN059192.D  
Acq: 12 Nov 2019 15:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 53.5  | 0.0   | 107.4 |

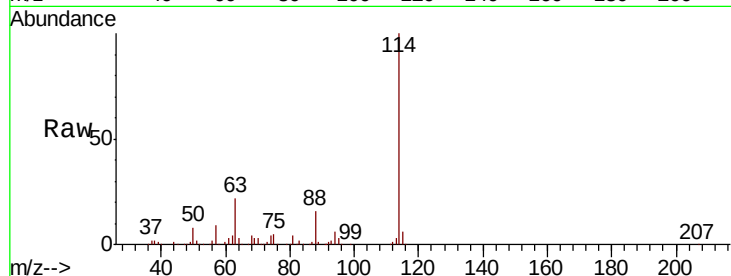




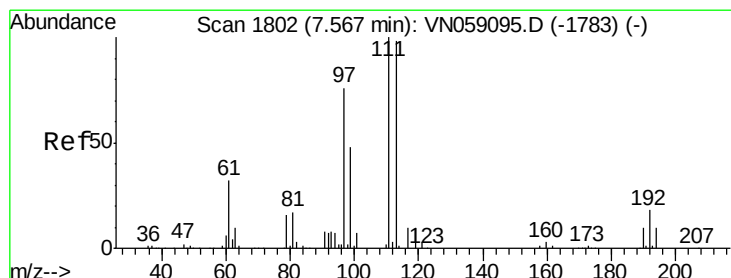
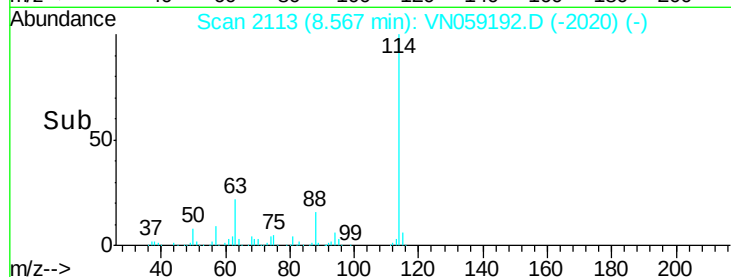
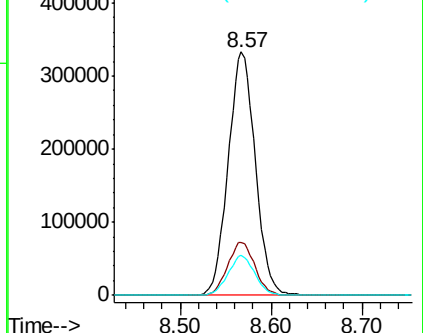
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.57 min Scan# 2113  
 Delta R.T. -0.00 min  
 Lab File: VN059192.D  
 Acq: 12 Nov 2019 15:51

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 LTM-RB-6-SRI4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 21.9  | 0.0   | 43.4  |
| 88      | 16.3  | 0.0   | 32.2  |

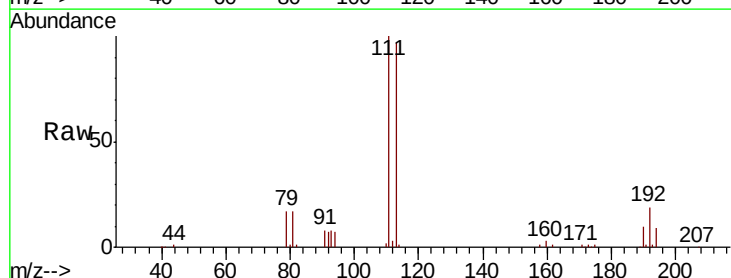


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VN  
 Ion 87.90 (87.60 to 88.60): VN

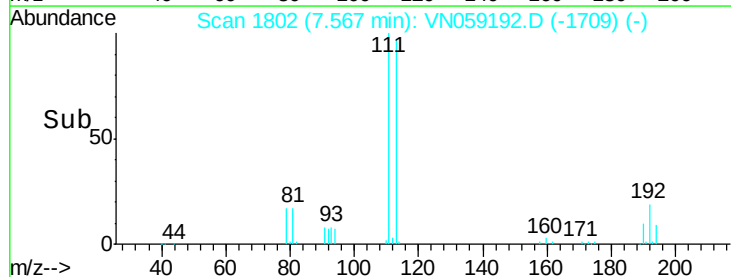
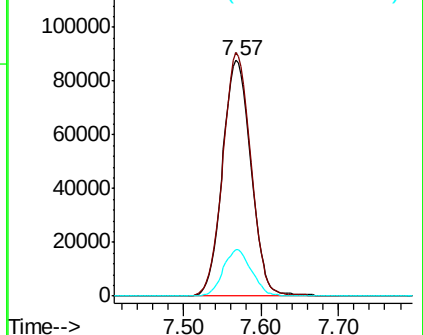


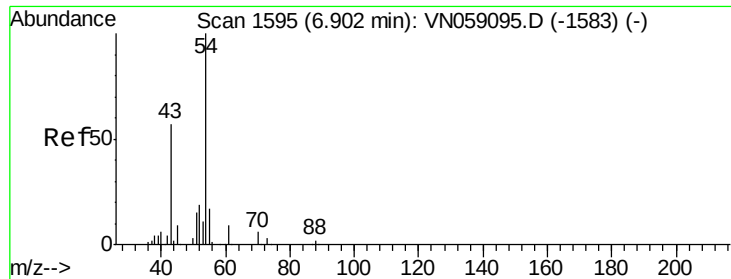
#35  
 Dibromofluoromethane  
 Concen: 54.571 ug/l  
 RT: 7.57 min Scan# 1802  
 Delta R.T. -0.00 min  
 Lab File: VN059192.D  
 Acq: 12 Nov 2019 15:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.1 | 82.8  | 124.2 |
| 192     | 19.5  | 16.1  | 24.1  |



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

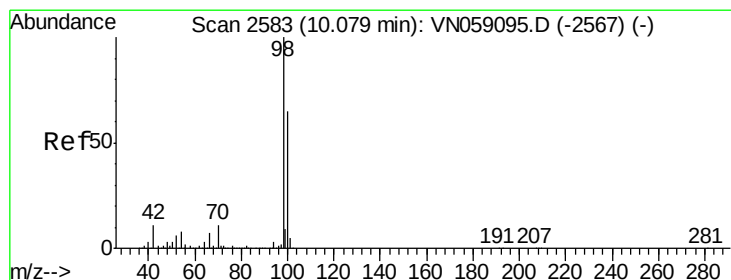
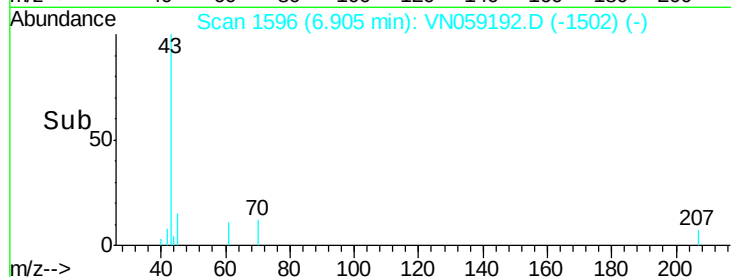
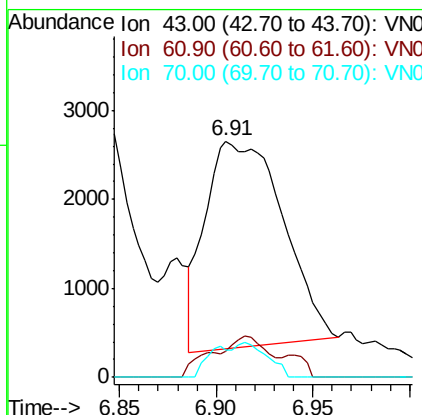
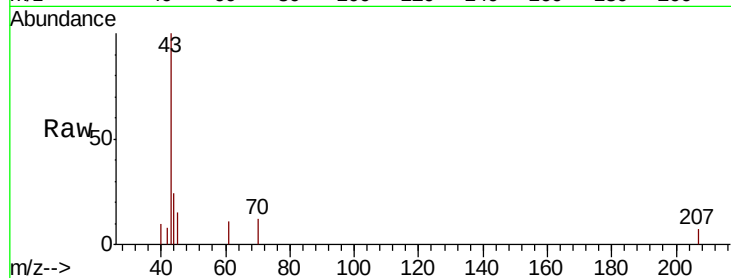




#37  
Ethyl Acetate  
Concen: 0.903 ug/l  
RT: 6.91 min Scan# 1596  
Delta R.T. 0.00 min  
Lab File: VN059192.D  
Acq: 12 Nov 2019 15:51

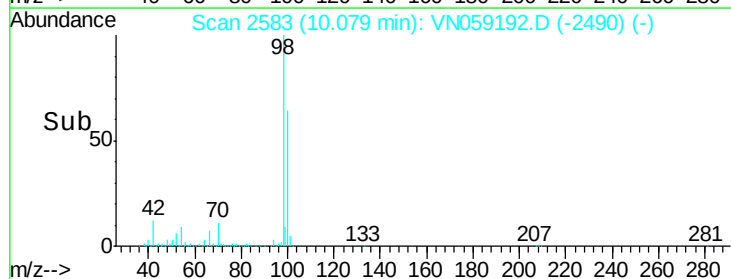
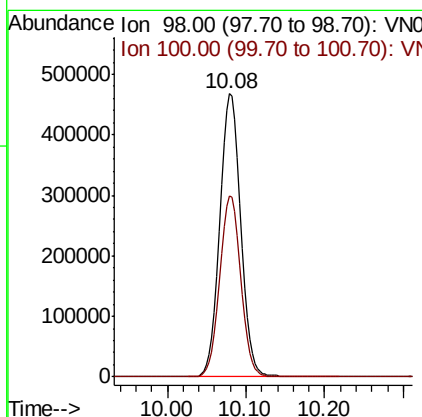
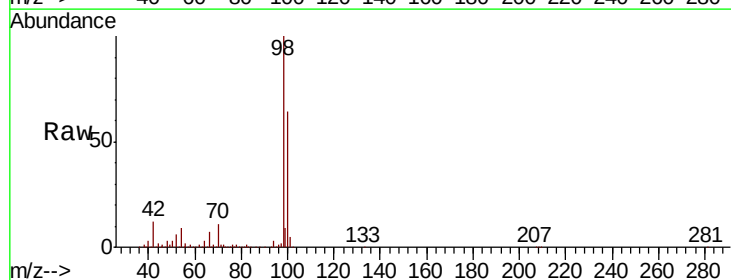
Instrument :  
MSVOA\_N  
ClientSampleId :  
LTM-RB-6-SRI4

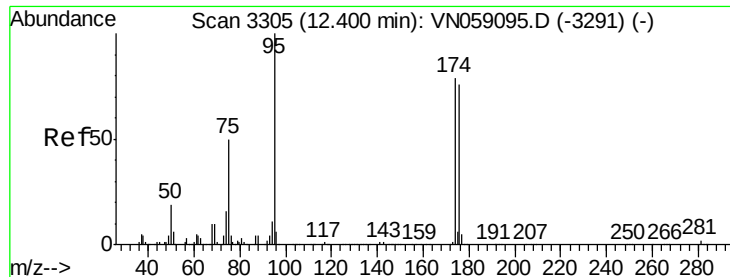
Tot Ion: 43 Resp: 6468  
Ion Ratio Lower Upper  
43 100  
61 0.0 11.2 16.8#  
70 5.0 7.8 11.8#



#50  
Toluene-d8  
Concen: 52.944 ug/l  
RT: 10.08 min Scan# 2583  
Delta R.T. -0.00 min  
Lab File: VN059192.D  
Acq: 12 Nov 2019 15:51

Tgt Ion: 98 Resp: 857927  
Ion Ratio Lower Upper  
98 100  
100 64.3 52.2 78.2





#62

4-Bromofluorobenzene

Concen: 47.724 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059192.D

Acq: 12 Nov 2019 15:51

Instrument :

MSVOA\_N

ClientSampleId :

LTM-RB-6-SRI4

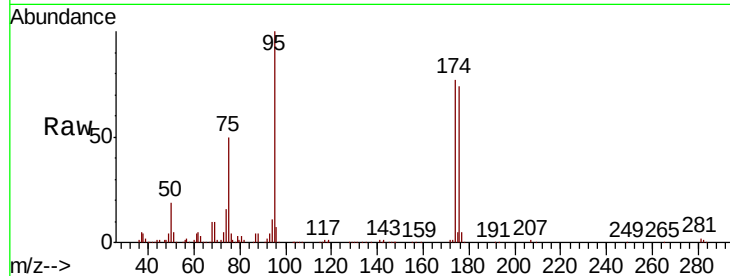
Tot Ion: 95 Resp: 278835

Ion Ratio Lower Upper

95 100

174 78.2 0.0 158.2

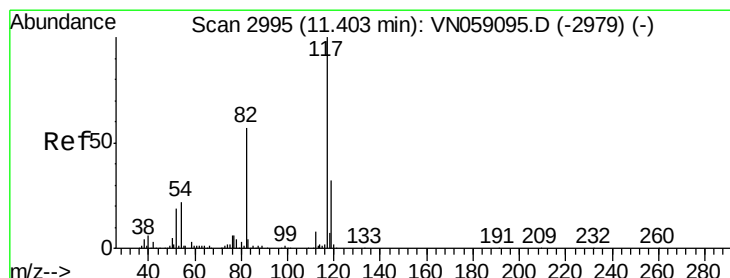
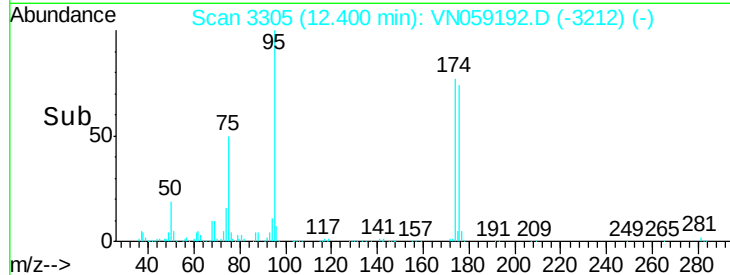
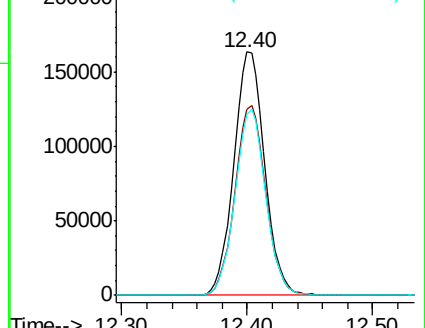
176 76.0 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): VN059192.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN059192.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN059192.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059192.D

Acq: 12 Nov 2019 15:51

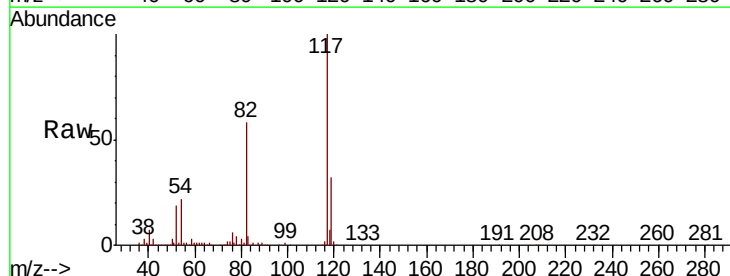
Tgt Ion: 117 Resp: 607093

Ion Ratio Lower Upper

117 100

82 58.1 45.8 68.8

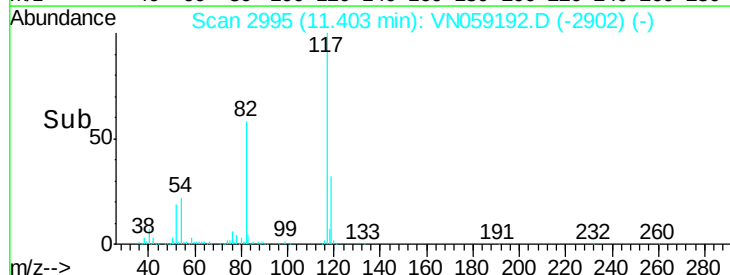
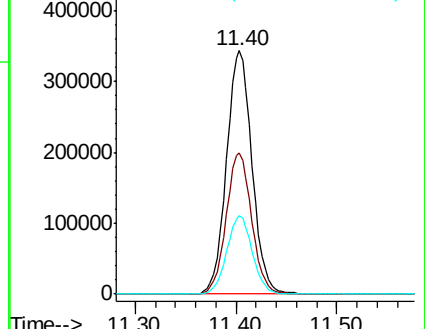
119 32.0 25.8 38.6



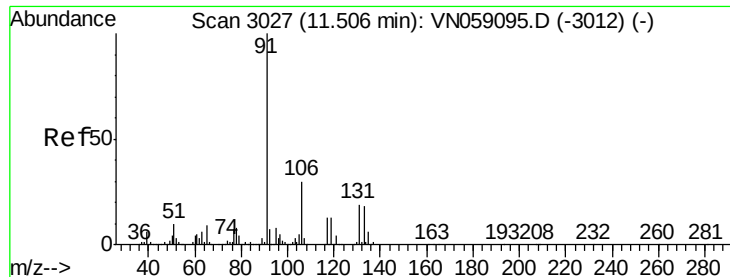
Abundance Ion 116.90 (116.60 to 117.60): VN059192.D (-2902) (-)

Ion 82.00 (81.70 to 82.70): VN059192.D (-2902) (-)

Ion 118.90 (118.60 to 119.60): VN059192.D (-2902) (-)







#67

Ethyl Benzene

Concen: 1.051 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN059192.D

Acq: 12 Nov 2019 15:51

Instrument :

MSVOA\_N

ClientSampled :

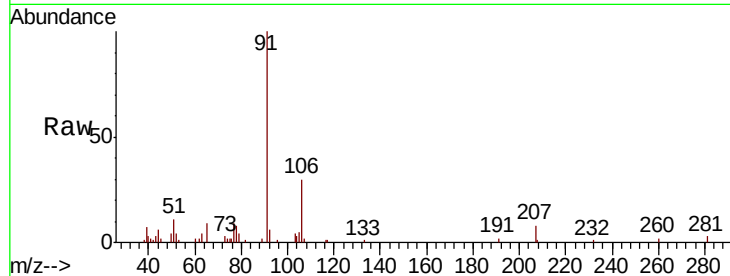
LTM-RB-6-SRI4

Tot Ion: 91 Resp: 22061

Ion Ratio Lower Upper

91 100

106 29.7 24.1 36.1



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V

15000

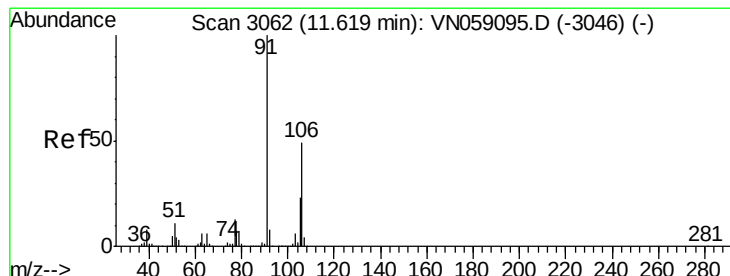
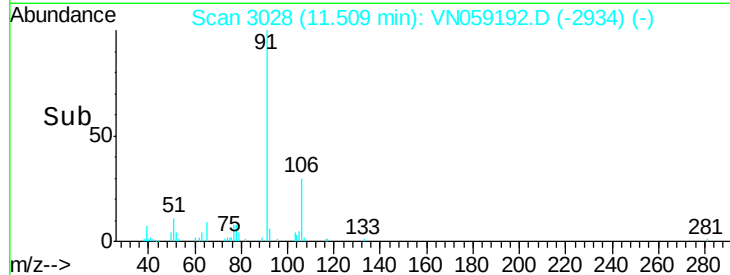
11.51

10000

5000

0

Time-->



#68

m/p-Xylenes

Concen: 3.309 ug/l

RT: 11.62 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VN059192.D

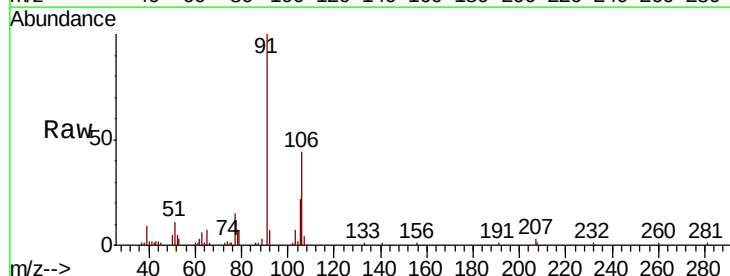
Acq: 12 Nov 2019 15:51

Tgt Ion: 106 Resp: 26026

Ion Ratio Lower Upper

106 100

91 216.5 164.7 247.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0

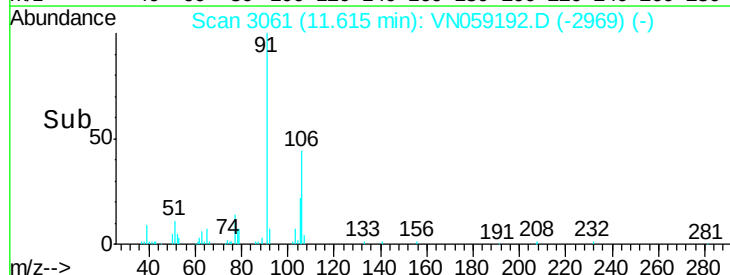
30000

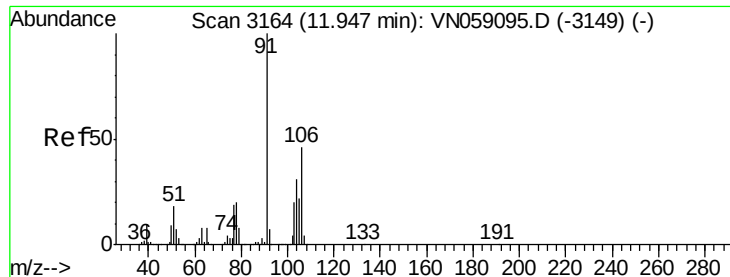
20000

10000

0

Time-->





#69

o-Xylene

Concen: 1.184 ug/l

RT: 11.95 min Scan# 3164

Delta R.T. -0.00 min

Lab File: VN059192.D

Acq: 12 Nov 2019 15:51

Instrument :

MSVOA\_N

ClientSampled :

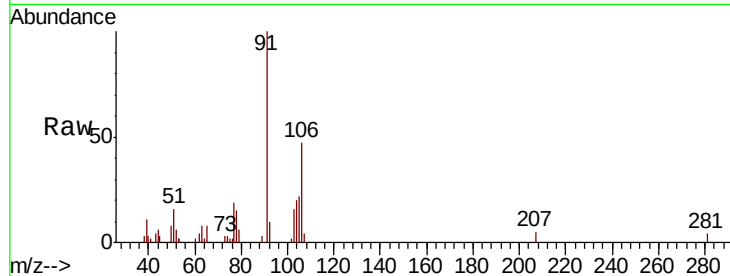
LTM-RB-6-SRI4

Tot Ion:106 Resp: 8996

Ion Ratio Lower Upper

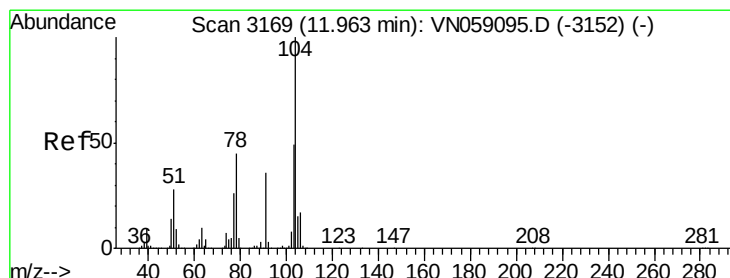
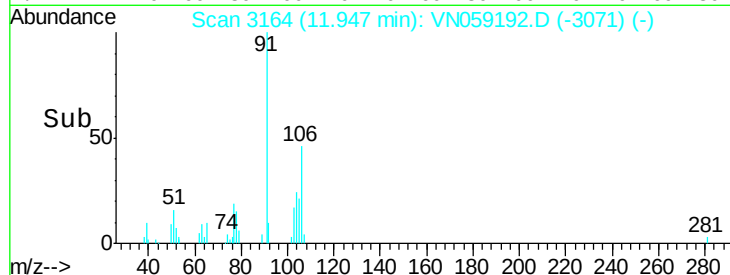
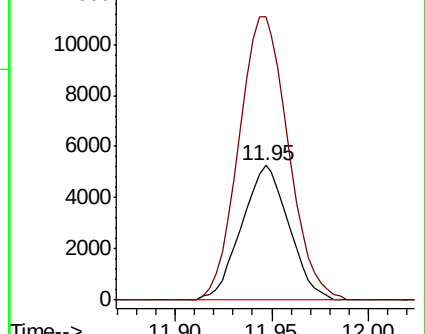
106 100

91 218.6 110.1 330.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#70

Styrene

Concen: 0.869 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. -0.00 min

Lab File: VN059192.D

Acq: 12 Nov 2019 15:51

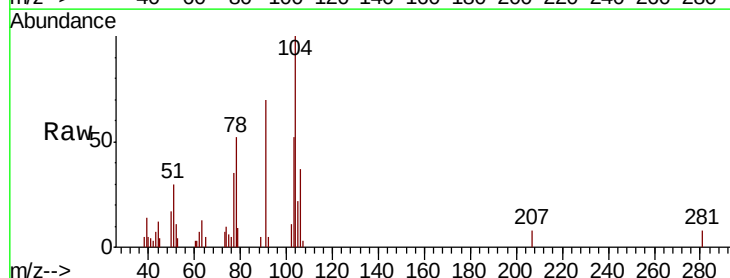
Tgt Ion:104 Resp: 10389

Ion Ratio Lower Upper

104 100

78 55.0 41.2 61.8

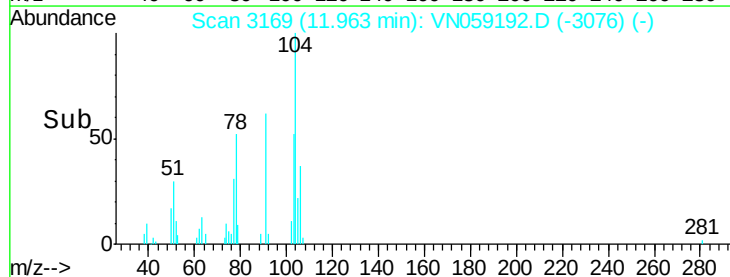
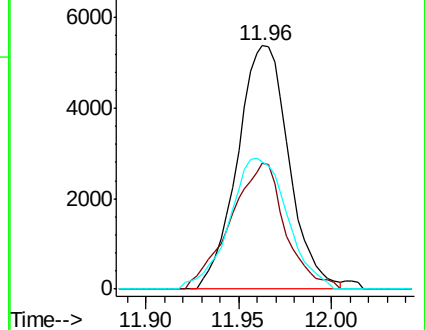
103 60.5 43.8 65.6

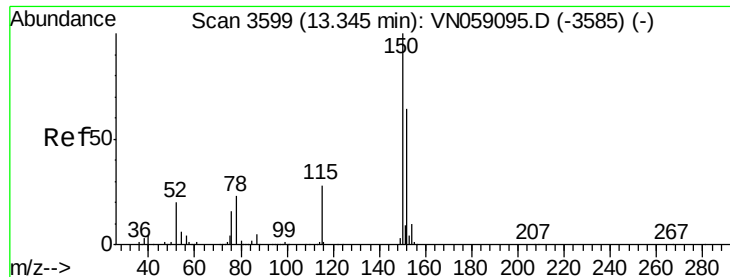


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN059192.D

Acq: 12 Nov 2019 15:51

Instrument :

MSVOA\_N

ClientSampleId :

LTM-RB-6-SRI4

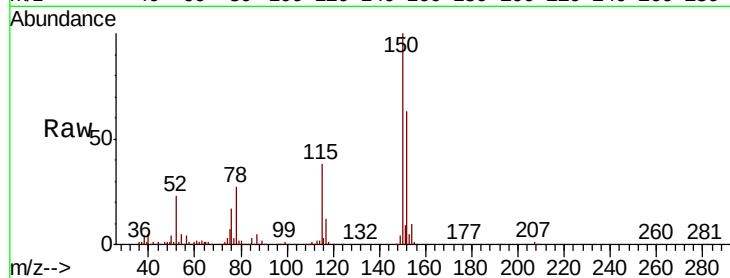
Tot Ion:152 Resp: 226057

Ion Ratio Lower Upper

152 100

115 58.9 29.4 88.2

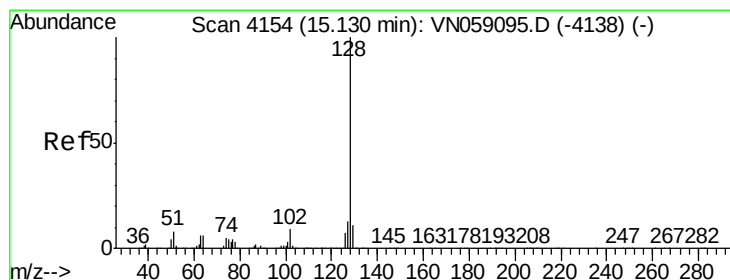
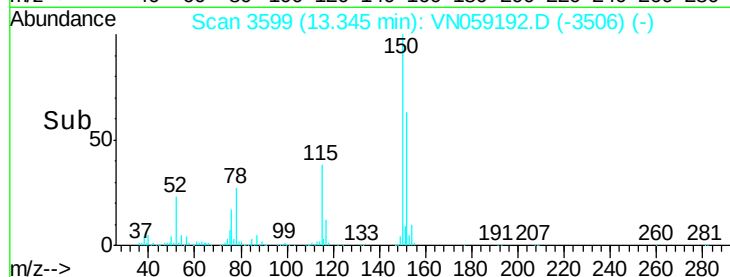
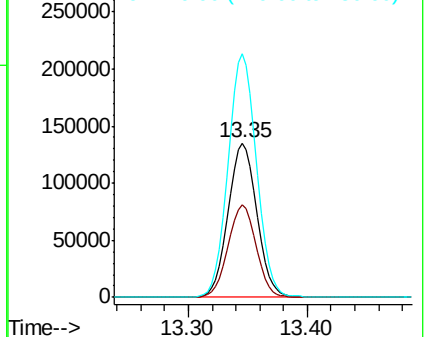
150 156.1 0.0 345.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#95

Naphthalene

Concen: 3.733 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059192.D

Acq: 12 Nov 2019 15:51

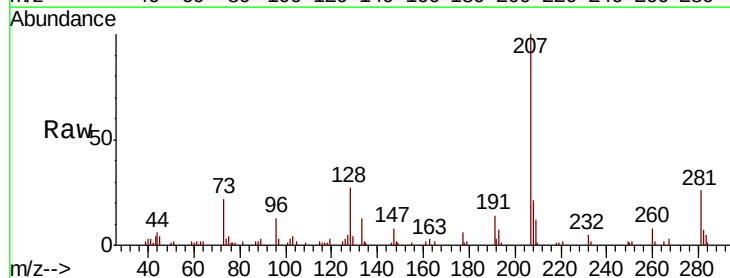
Tgt Ion:128 Resp: 8589

Ion Ratio Lower Upper

128 100

127 15.5 10.2 15.2#

129 10.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

