

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082619\  
 Data File : BF116576.D  
 Acq On : 26 Aug 2019 15:57  
 Operator : HP/JU  
 Sample : K4392-01DL 5X  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GW-1DL

Manual Integrations  
 APPROVED

Jagrut  
 8/27/2019 10:30:32 AM

Quant Time: Aug 27 12:00:26 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 23 13:38:31 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|-------|------|----------|---------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.90  | 152  | 105340   | 20.00   | ng    | 0.02     |
| 21) Naphthalene-d8          | 8.18  | 136  | 365025   | 20.00   | ng    | 0.02     |
| 39) Acenaphthene-d10        | 9.95  | 164  | 203852   | 20.00   | ng    | 0.03     |
| 64) Phenanthrene-d10        | 11.42 | 188  | 349774   | 20.00   | ng    | 0.02     |
| 76) Chrysene-d12            | 14.03 | 240  | 227407   | 20.00   | ng    | 0.00     |
| 87) Perylene-d12            | 15.50 | 264  | 273467   | 20.00   | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.50  | 112  | 43247    | 6.00    | ng    | 0.00     |
| 7) Phenol-d6                | 6.50  | 99   | 39272    | 4.44    | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.45  | 82   | 207782   | 31.14   | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.73 | 330  | 18427    | 10.53   | ng    | 0.03     |
| 45) 2-Fluorobiphenyl        | 9.25  | 172  | 196079   | 15.49   | ng    | 0.01     |
| 79) Terphenyl-d14           | 12.99 | 244  | 173525   | 14.25   | ng    | 0.00     |
| Target Compounds            |       |      |          |         |       |          |
| 31) Naphthalene             | 8.20  | 128  | 1176434  | 66.622  | ng    | # 94     |
| 37) 2-Methylnaphthalene     | 8.92  | 142  | 4056069  | 334.538 | ng    | # 94     |
| 38) 1-Methylnaphthalene     | 9.02  | 142  | 2452393  | 216.531 | ng    | # 99     |
| 46) 1,1'-Biphenyl           | 9.36  | 154  | 356986   | 21.903  | ng    | 99       |
| 49) Acenaphthylene          | 9.81  | 152  | 136066m  | 7.360   | ng    |          |
| 52) Acenaphthene            | 9.97  | 154  | 240755   | 20.296  | ng    | # 82     |
| 58) Fluorene                | 10.49 | 166  | 451827   | 35.170  | ng    | # 90     |
| 71) Phenanthrene            | 11.45 | 178  | 1169250  | 61.364  | ng    | 97       |
| 72) Anthracene              | 11.47 | 178  | 40725m   | 2.127   | ng    |          |
| 75) Fluoranthene            | 12.63 | 202  | 44058    | 2.237   | ng    | 68       |
| 78) Pyrene                  | 12.85 | 202  | 127253   | 6.997   | ng    | # 95     |

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

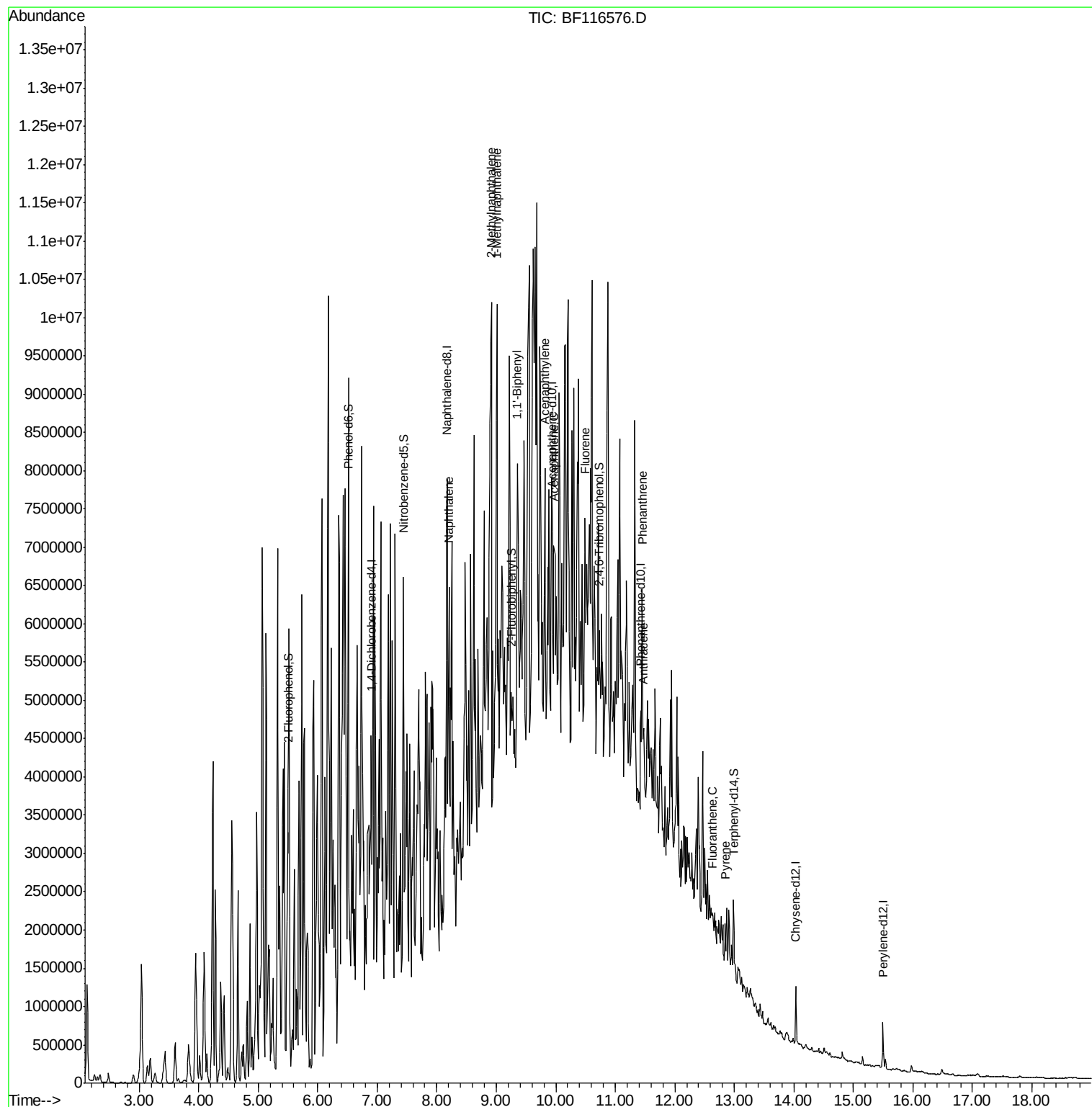
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082619\  
Data File : BF116576.D  
Acq On : 26 Aug 2019 15:57  
Operator : HP/JU  
Sample : K4392-01DL 5X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

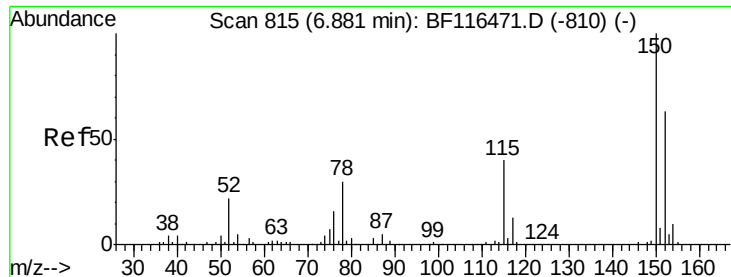
Instrument :  
BNA\_F  
ClientSampleId :  
GW-1DL

Manual Integrations  
APPROVED

Jagrut  
8/27/2019 10:30:32 AM

Quant Time: Aug 27 12:00:26 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 23 13:38:31 2019  
Response via : Initial Calibration





#1

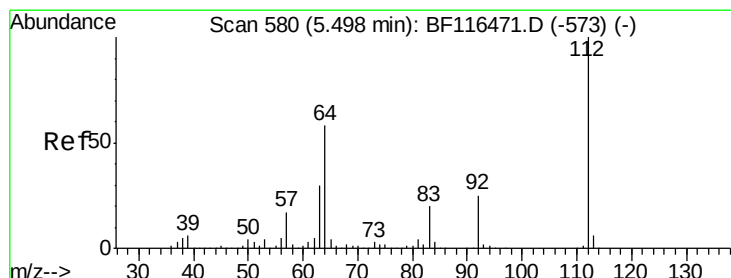
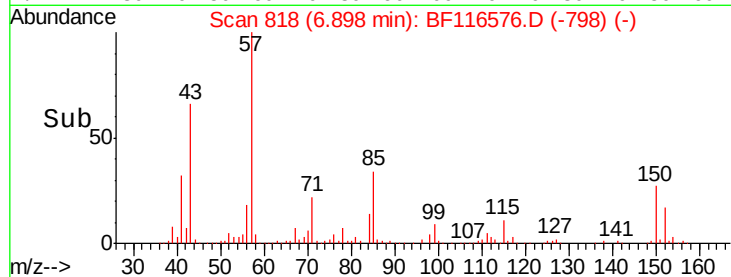
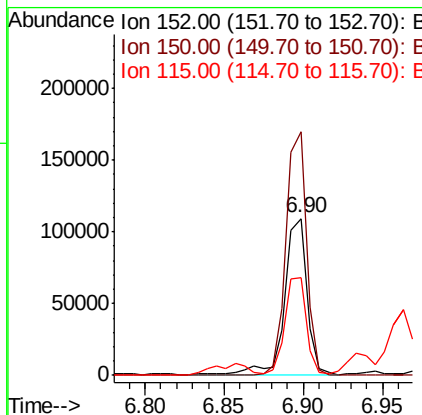
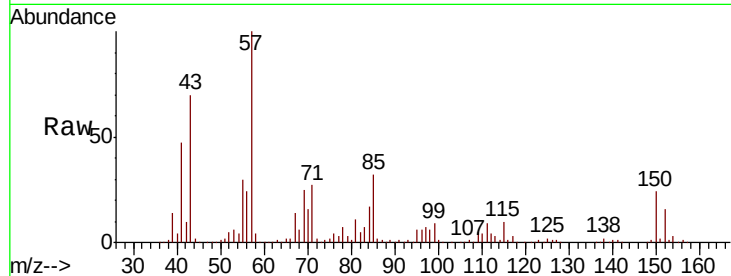
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.90 min Scan# 818  
Delta R.T. 0.02 min  
Lab File: BF116576.D  
Acq: 26 Aug 2019 15:57

Instrument :  
BNA\_F  
ClientSampleId :  
GW-1DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.4 | 126.7 | 190.1 |
| 115     | 62.2  | 50.9  | 76.3  |

Manual Integrations  
APPROVED

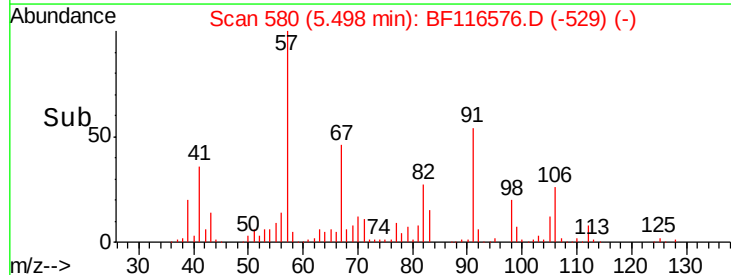
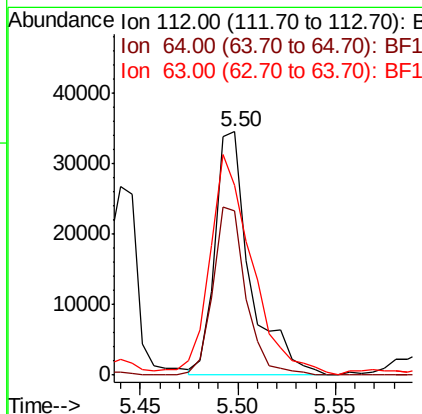
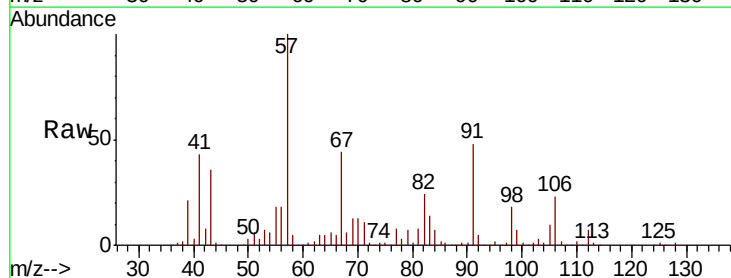
Jagrut  
8/27/2019 10:30:32 AM

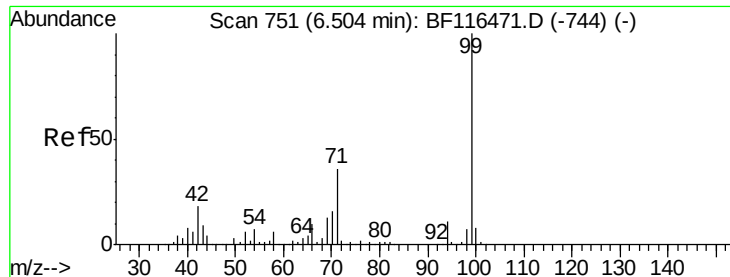


#5

2-Fluorophenol  
Concen: 5.999 ng  
RT: 5.50 min Scan# 580  
Delta R.T. -0.00 min  
Lab File: BF116576.D  
Acq: 26 Aug 2019 15:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 67.5  | 46.3  | 69.5  |
| 63      | 78.0  | 24.2  | 36.4# |





#7

Phenol-d6

Concen: 4.443 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: BF116576.D

Acq: 26 Aug 2019 15:57

Instrument :

BNA\_F

ClientSampled :

GW-1DL

Tot Ion: 99 Resp: 39272

Ion Ratio Lower Upper

99 100

42 218.8 14.6 21.8#

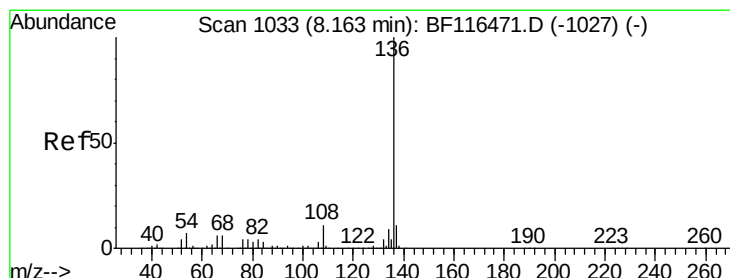
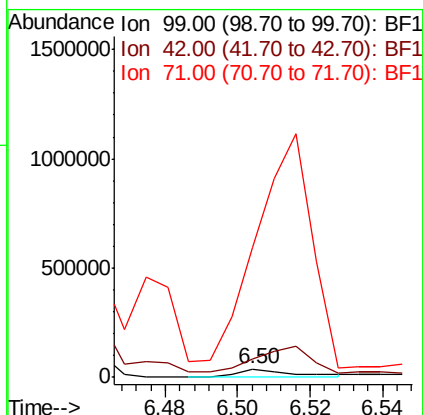
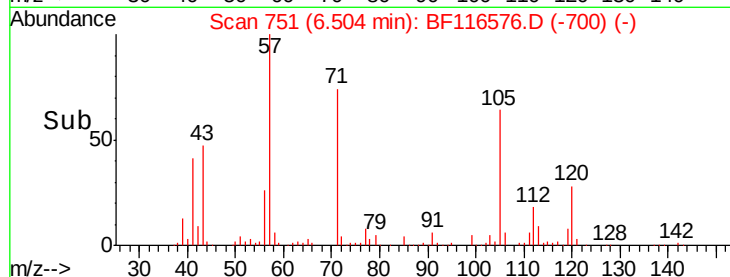
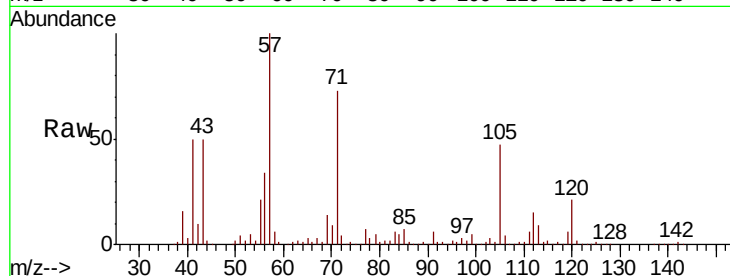
71 1556.8 28.5 42.7#

Manual Integrations

APPROVED

Jagrut

8/27/2019 10:30:32 AM



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.18 min Scan# 1036

Delta R.T. 0.02 min

Lab File: BF116576.D

Acq: 26 Aug 2019 15:57

Tgt Ion: 136 Resp: 365025

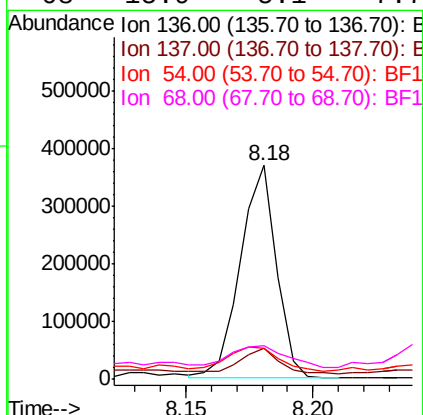
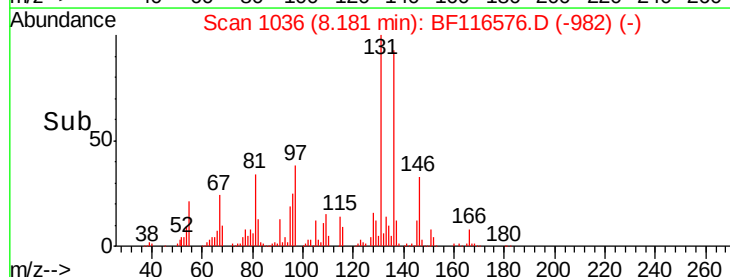
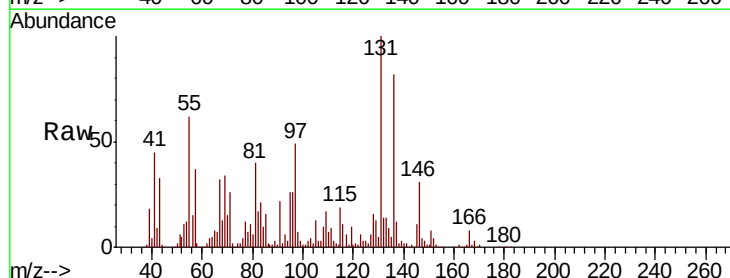
Ion Ratio Lower Upper

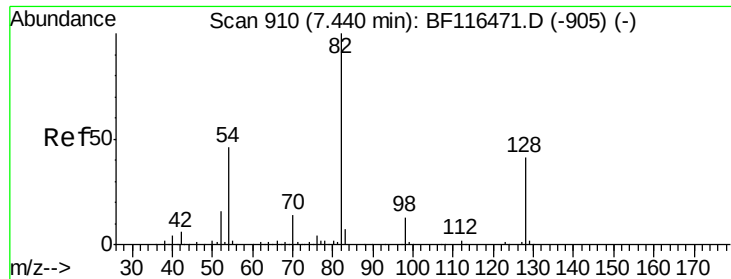
136 100

137 14.2 9.0 13.4#

54 14.2 5.8 8.6#

68 15.9 5.1 7.7#





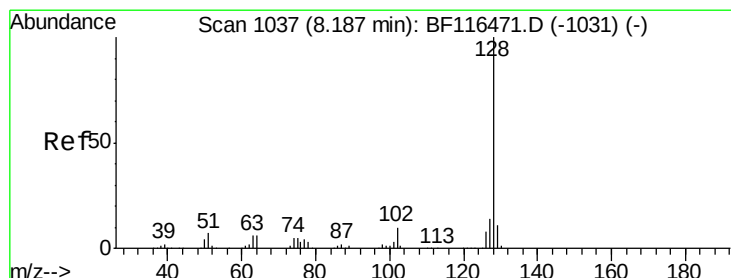
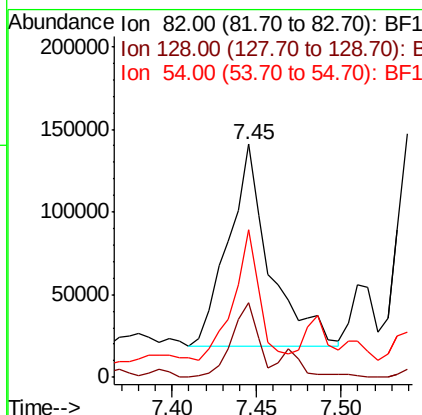
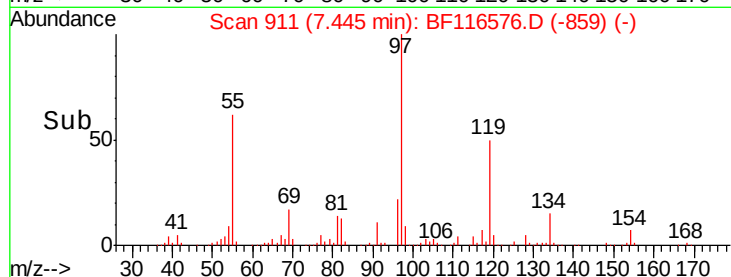
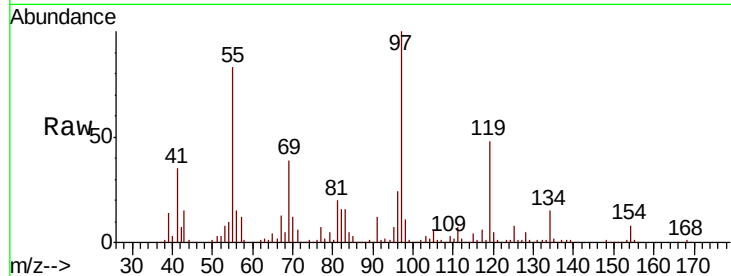
#23  
 Nitrobenzene-d5  
 Concen: 31.142 ng  
 RT: 7.45 min Scan# 911  
 Delta R.T. 0.01 min  
 Lab File: BF116576.D  
 Acq: 26 Aug 2019 15:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GW-1DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 82    | Resp: | 207782 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 31.8  | 32.2  | 48.4#  |
| 54        | 63.3  | 36.5  | 54.7#  |

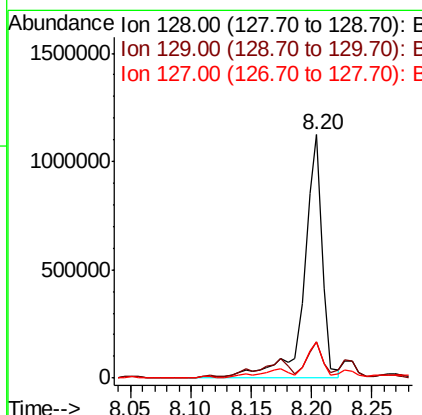
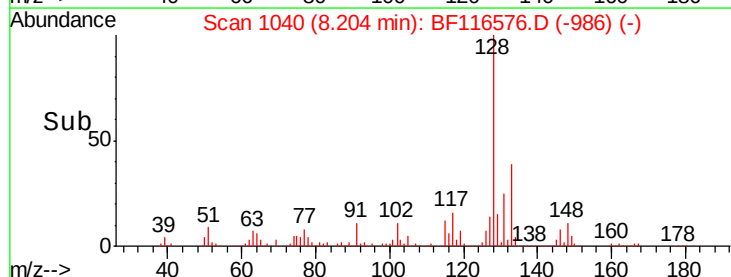
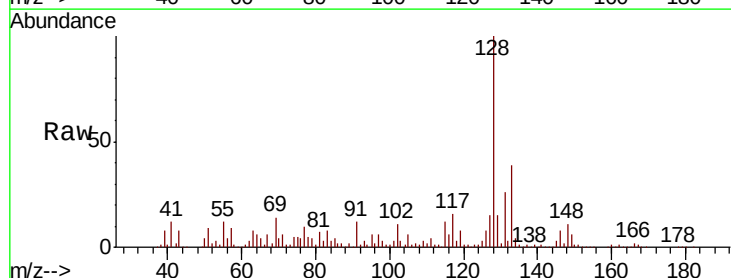
Manual Integrations  
 APPROVED

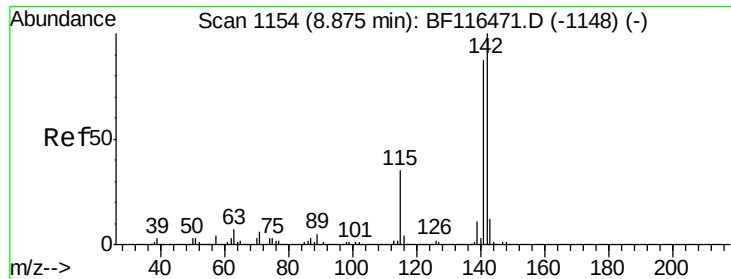
Jagrut  
 8/27/2019 10:30:32 AM



#31  
 Naphthalene  
 Concen: 66.622 ng  
 RT: 8.20 min Scan# 1040  
 Delta R.T. 0.02 min  
 Lab File: BF116576.D  
 Acq: 26 Aug 2019 15:57

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 128   | Resp: | 1176434 |
| Ion Ratio | Lower | Upper |         |
| 128       | 100   |       |         |
| 129       | 14.8  | 9.0   | 13.6#   |
| 127       | 14.7  | 10.9  | 16.3    |





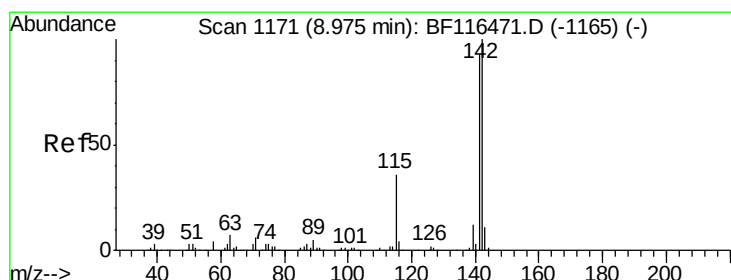
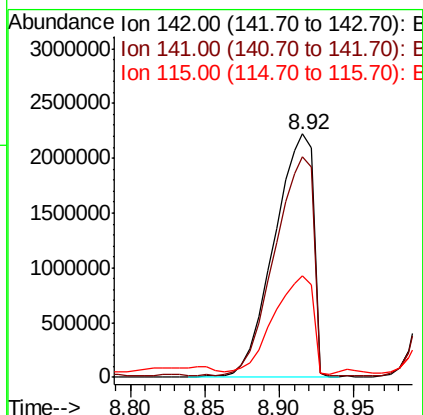
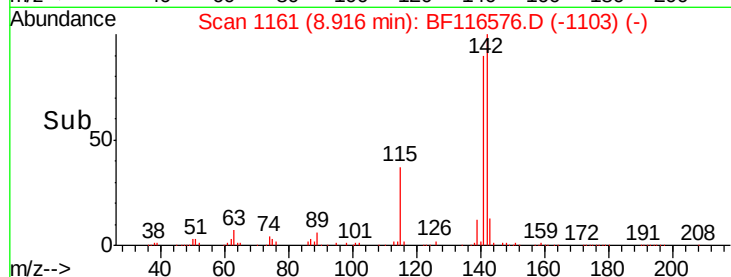
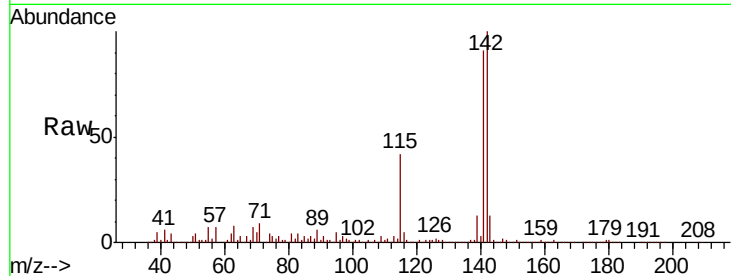
#37  
2-Methylnaphthalene  
Concen: 334.538 ng  
RT: 8.92 min Scan# 1161  
Delta R.T. 0.04 min  
Lab File: BF116576.D  
Acq: 26 Aug 2019 15:57

Instrument :  
BNA\_F  
ClientSampled :  
GW-1DL

Tot Ion:142 Resp: 4056069  
Ion Ratio Lower Upper  
142 100  
141 90.8 69.8 104.6  
115 41.6 27.7 41.5#

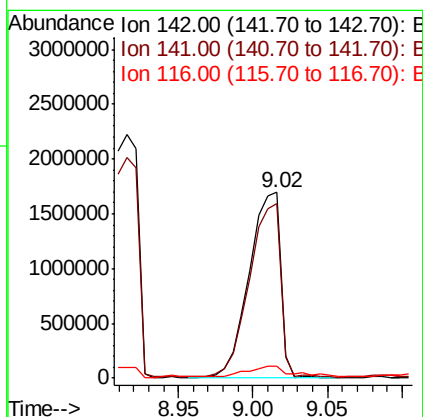
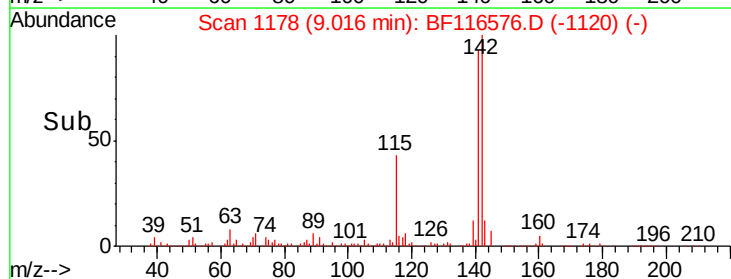
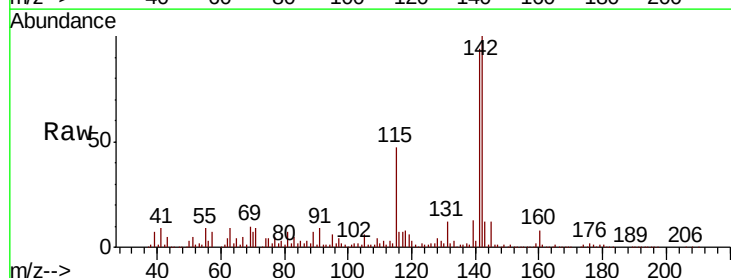
Manual Integrations  
APPROVED

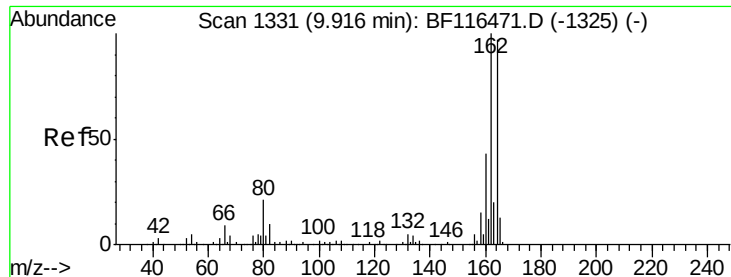
Jagrut  
8/27/2019 10:30:32 AM



#38  
1-Methylnaphthalene  
Concen: 216.531 ng  
RT: 9.02 min Scan# 1178  
Delta R.T. 0.04 min  
Lab File: BF116576.D  
Acq: 26 Aug 2019 15:57

Tgt Ion:142 Resp: 2452393  
Ion Ratio Lower Upper  
142 100  
141 93.8 74.2 111.2  
116 6.5 2.9 4.3#





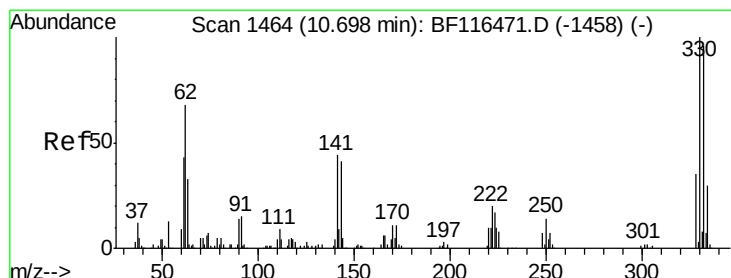
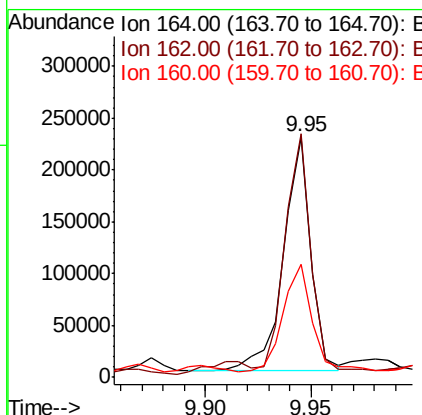
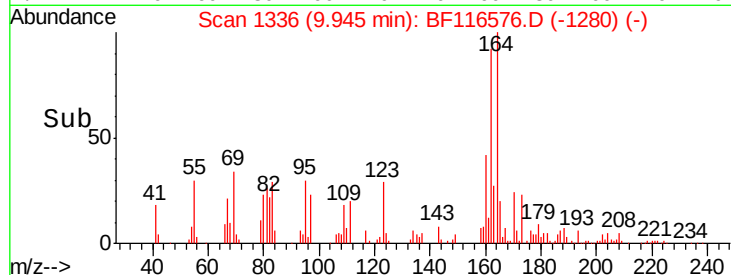
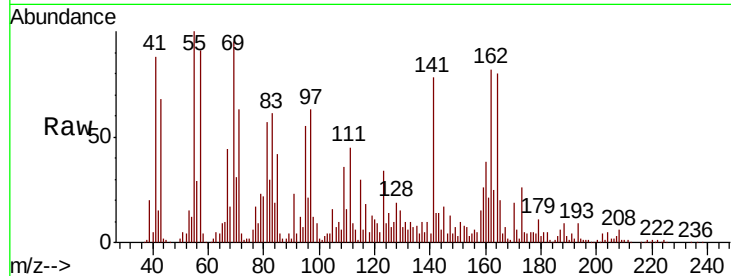
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.95 min Scan# 1336  
 Delta R.T. 0.03 min  
 Lab File: BF116576.D  
 Acq: 26 Aug 2019 15:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GW-1DL

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 101.5 | 82.6 | 123.8 |       |
| 160     | 47.3  | 35.8 | 53.8  |       |

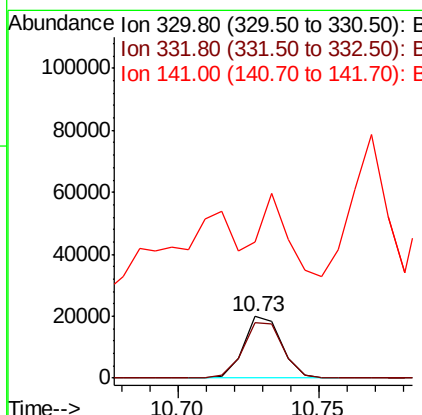
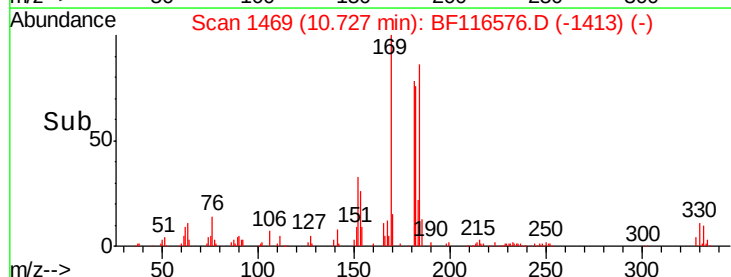
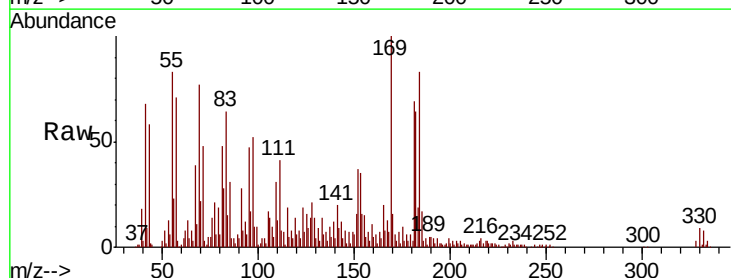
Manual Integrations  
 APPROVED

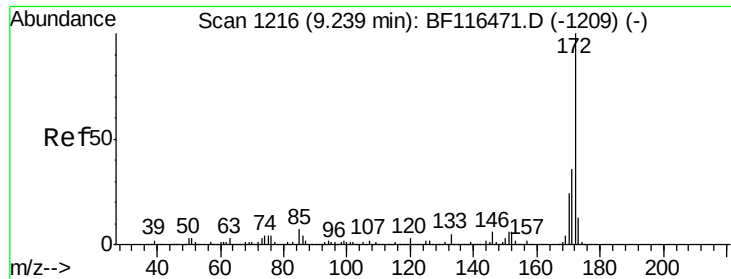
Jagrut  
 8/27/2019 10:30:32 AM



#42  
 2,4,6-Tribromophenol  
 Concen: 10.527 ng  
 RT: 10.73 min Scan# 1469  
 Delta R.T. 0.03 min  
 Lab File: BF116576.D  
 Acq: 26 Aug 2019 15:57

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 94.8  | 77.2 | 115.8 |       |
| 141     | 99.0  | 33.3 | 49.9  |       |





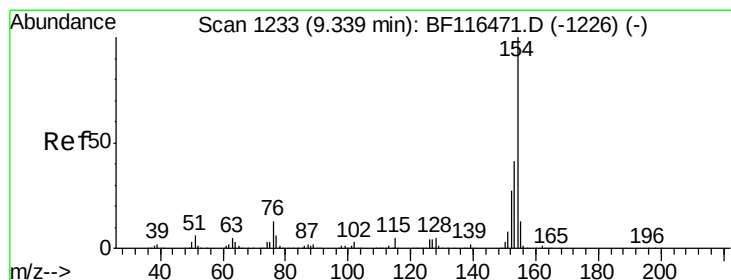
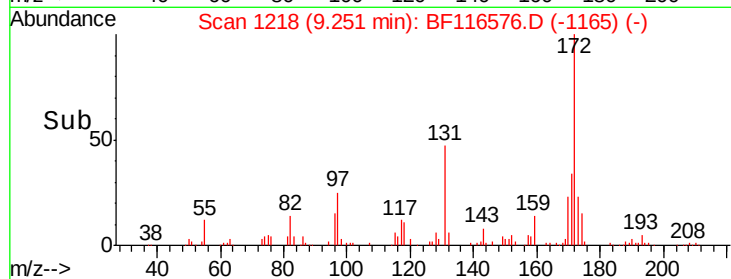
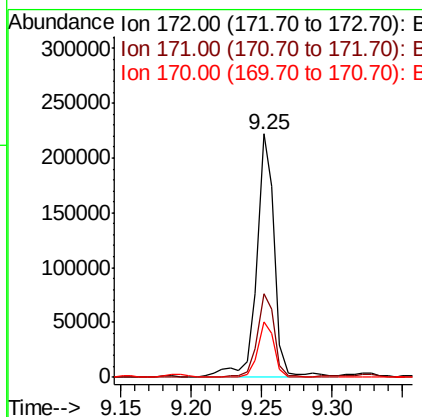
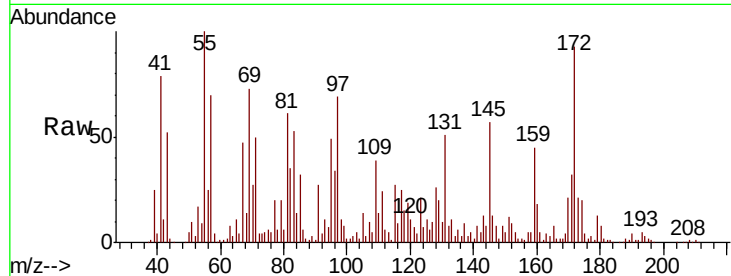
#45  
2-Fluorobiphenyl  
Concen: 15.490 ng  
RT: 9.25 min Scan# 1218  
Delta R.T. 0.01 min  
Lab File: BF116576.D  
Acq: 26 Aug 2019 15:57

Instrument :  
BNA\_F  
ClientSampled :  
GW-1DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 196079 |       |       |
| 171     | 34.5  | 28.9   | 43.3  |       |
| 170     | 22.7  | 19.4   | 29.0  |       |

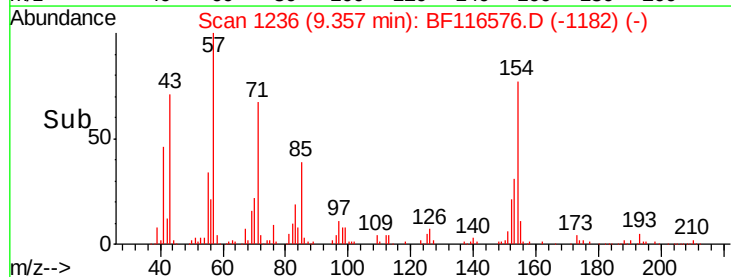
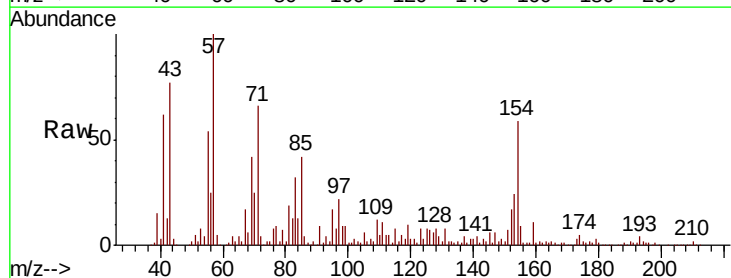
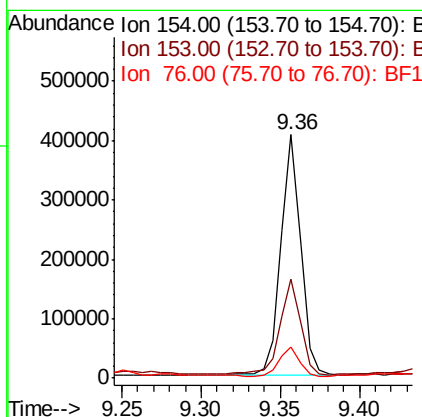
Manual Integrations  
APPROVED

Jagrut  
8/27/2019 10:30:32 AM

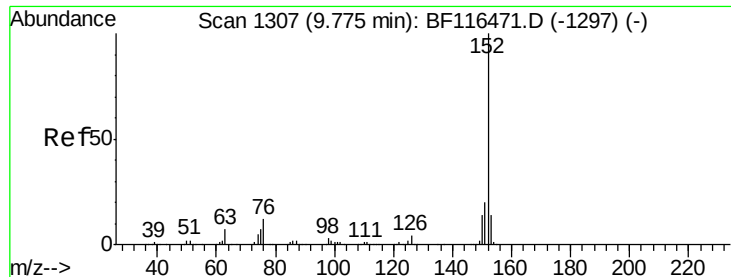


#46  
1,1'-Biphenyl  
Concen: 21.903 ng  
RT: 9.36 min Scan# 1236  
Delta R.T. 0.02 min  
Lab File: BF116576.D  
Acq: 26 Aug 2019 15:57

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 356986 |       |       |
| 153     | 40.6  | 21.3   | 61.3  |       |
| 76      | 12.9  | 0.0    | 32.9  |       |







#49

Acenaphthylene

Concen: 7.360 ng/mL

RT: 9.81 min Scan# 1313

Delta R.T. 0.04 min

Lab File: BF116576.D

Acq: 26 Aug 2019 15:57

Instrument :

BNA\_F

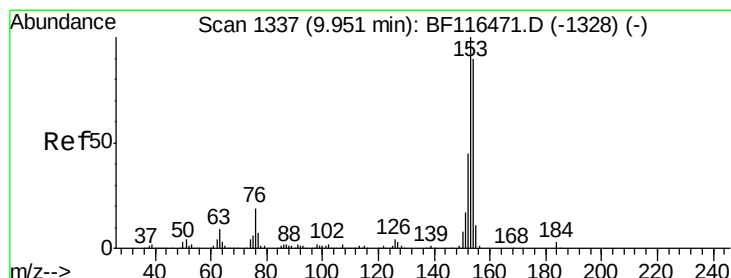
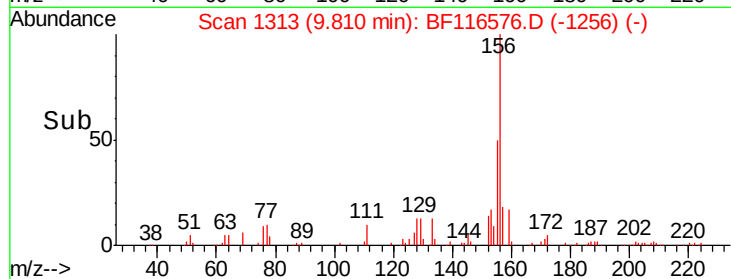
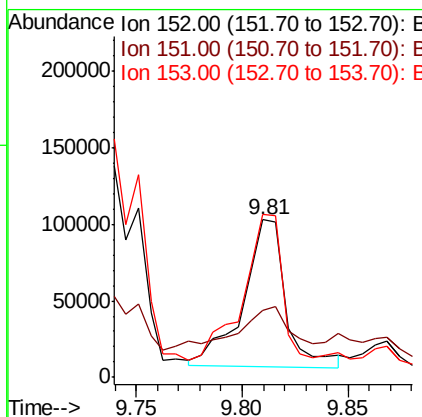
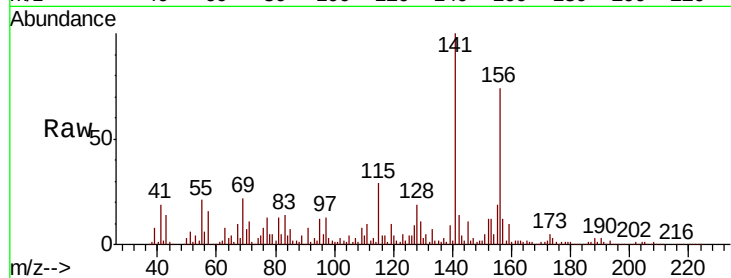
ClientSampled :

GW-1DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 152   | Resp: | 136066 |
| Ion Ratio | Lower | Upper |        |
| 152       | 100   |       |        |
| 151       | 42.8  | 16.1  | 24.1#  |
| 153       | 103.5 | 11.4  | 17.0#  |

Manual Integrations  
APPROVED

Jagrut  
8/27/2019 10:30:32 AM



#52

Acenaphthene

Concen: 20.296 ng/mL

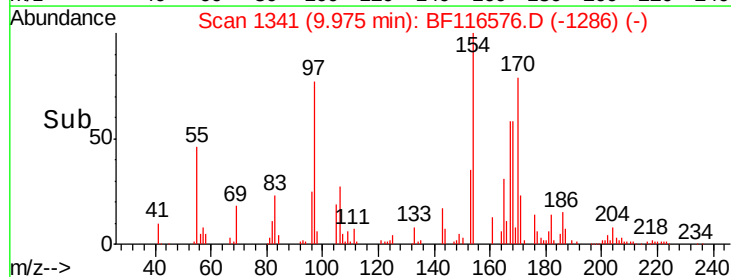
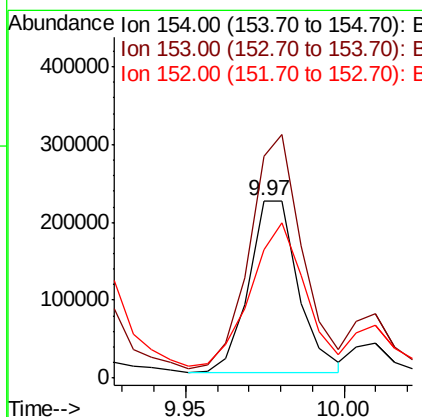
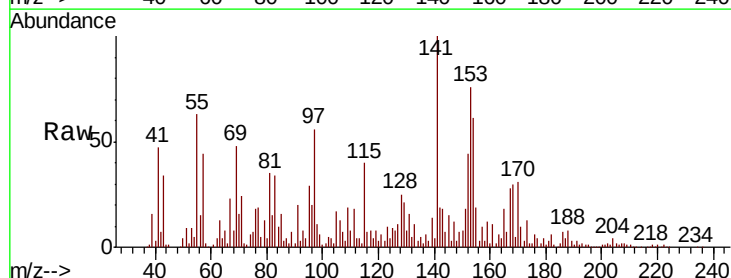
RT: 9.97 min Scan# 1341

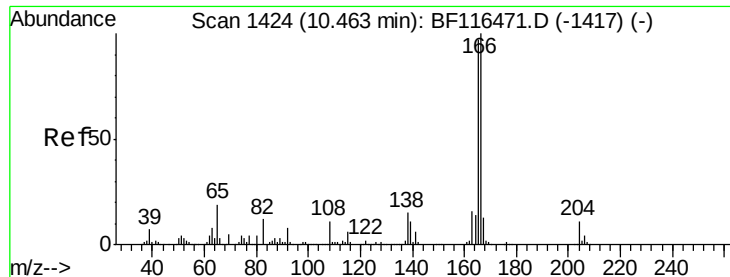
Delta R.T. 0.02 min

Lab File: BF116576.D

Acq: 26 Aug 2019 15:57

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 154   | Resp: | 240755 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 124.9 | 89.3  | 133.9  |
| 152       | 72.2  | 40.2  | 60.4#  |





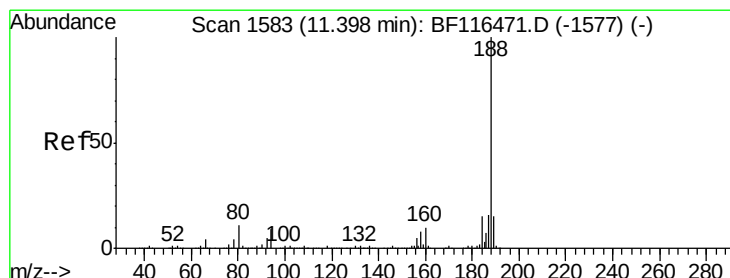
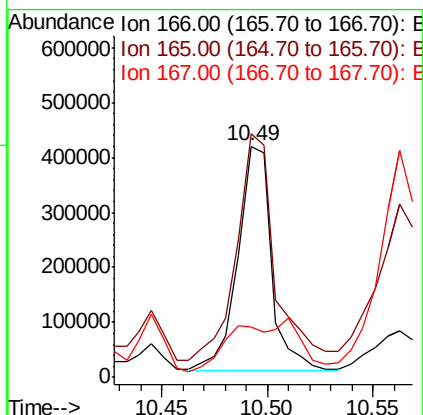
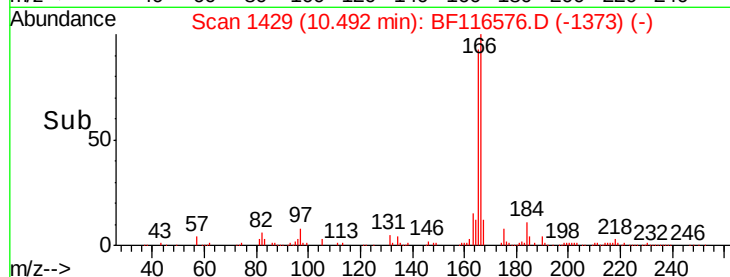
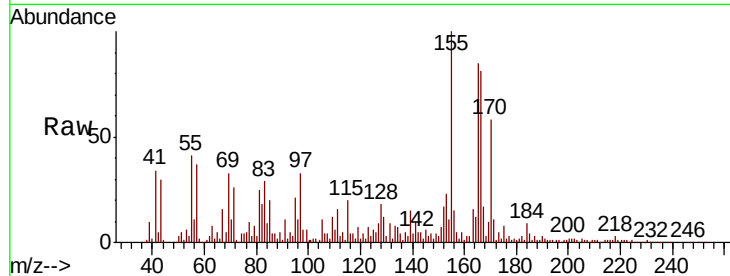
#58  
 Fluorene  
 Concen: 35.170 ng  
 RT: 10.49 min Scan# 1429  
 Delta R.T. 0.03 min  
 Lab File: BF116576.D  
 Acq: 26 Aug 2019 15:57

Instrument :  
 BNA\_F  
 ClientSampled :  
 GW-1DL

| Tot Ion | Ion   | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|-------|
| 166     | 100   |       |       |       |       |
| 165     | 105.4 | 77.4  | 116.0 |       |       |
| 167     | 21.6  | 10.8  | 16.2# |       |       |

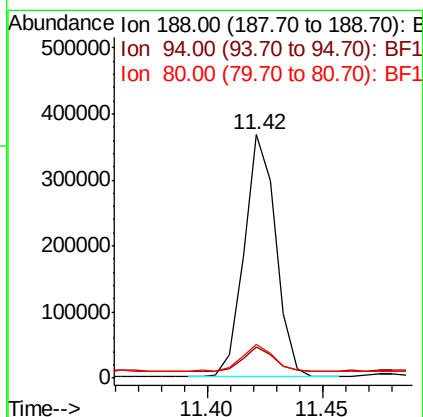
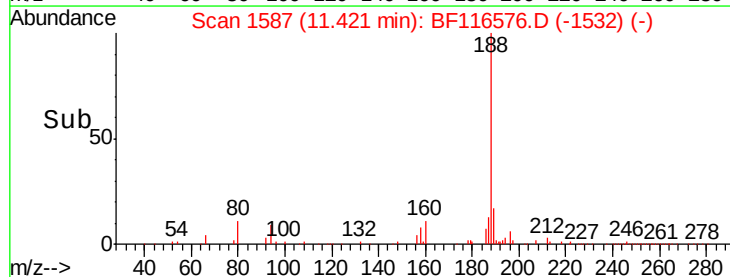
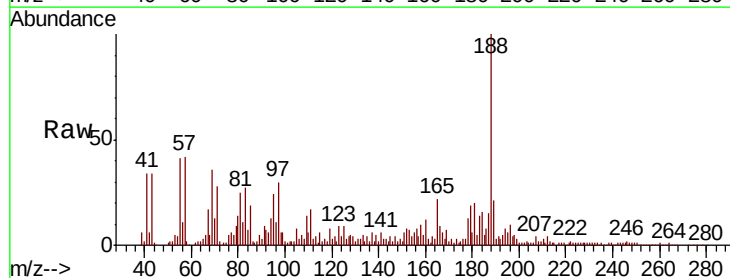
Manual Integrations  
 APPROVED

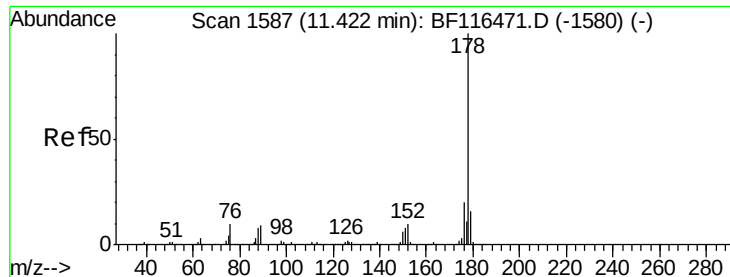
Jagrut  
 8/27/2019 10:30:32 AM



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.42 min Scan# 1587  
 Delta R.T. 0.02 min  
 Lab File: BF116576.D  
 Acq: 26 Aug 2019 15:57

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 188     | 100  |       |       |       |       |
| 94      | 12.6 | 7.4   | 11.2# |       |       |
| 80      | 13.9 | 8.6   | 12.8# |       |       |





#71

Phenanthrene

Concen: 61.364 ng

RT: 11.45 min Scan# 1592

Delta R.T. 0.03 min

Lab File: BF116576.D

Acq: 26 Aug 2019 15:57

Instrument :

BNA\_F

ClientSampled :

GW-1DL

Tot Ion:178 Resp: 1169250

Ion Ratio Lower Upper

178 100

176 19.7 15.8 23.6

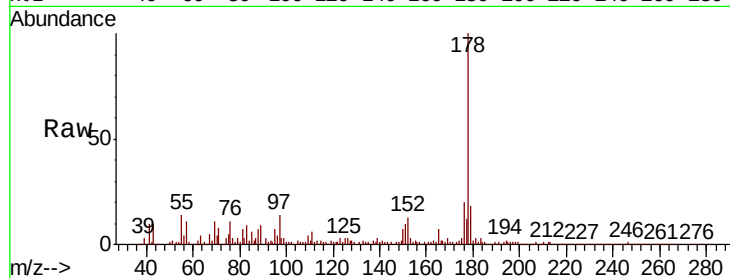
179 18.4 12.8 19.2

Manual Integrations

APPROVED

Jagrut

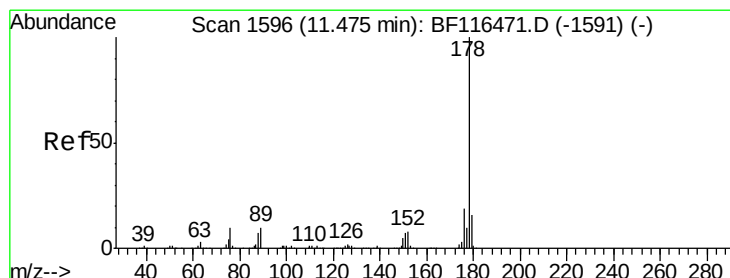
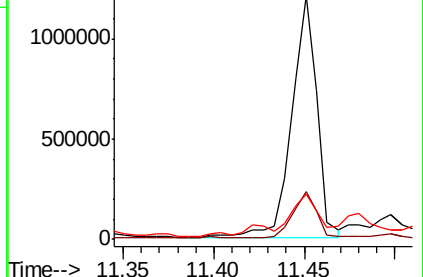
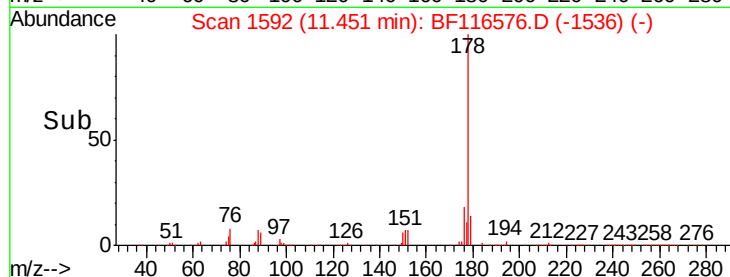
8/27/2019 10:30:32 AM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 2.127 ng m

RT: 11.47 min Scan# 1596

Delta R.T. -0.00 min

Lab File: BF116576.D

Acq: 26 Aug 2019 15:57

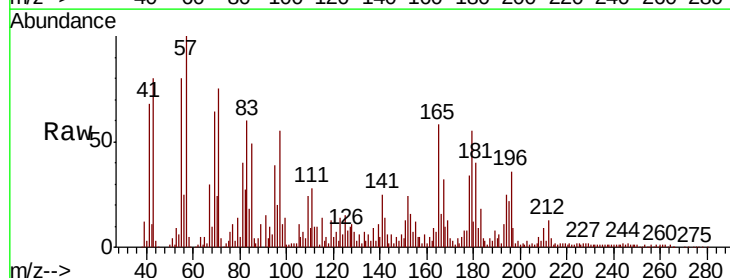
Tgt Ion:178 Resp: 40725

Ion Ratio Lower Upper

178 100

176 23.2 15.2 22.8#

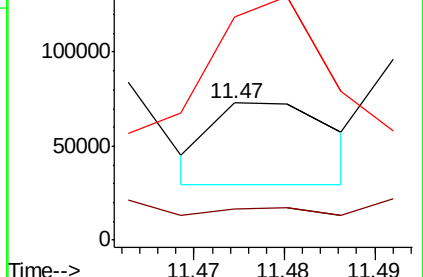
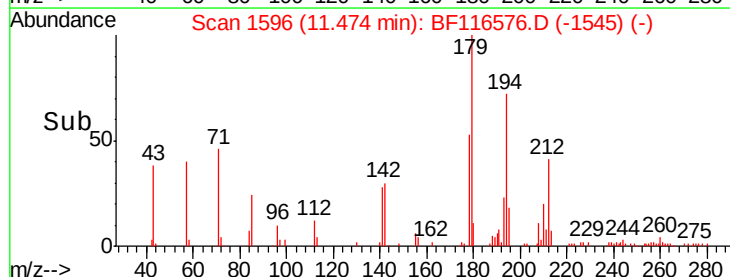
179 162.9 12.5 18.7#

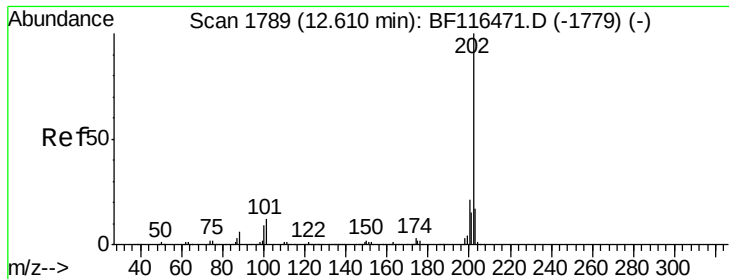


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Fluoranthene

Concen: 2.237 ng

RT: 12.63 min Scan# 1792

Delta R.T. 0.02 min

Lab File: BF116576.D

Acq: 26 Aug 2019 15:57

Instrument :

BNA\_F

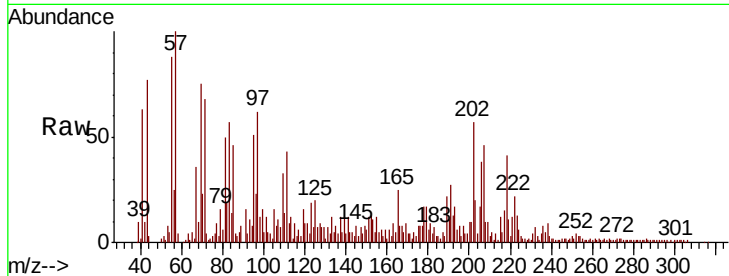
ClientSampled :

GW-1DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 44058 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 20.3  | 0.0   | 31.5  |
| 203       | 34.4  | 0.0   | 37.5  |

Manual Integrations  
APPROVED

Jagrut  
8/27/2019 10:30:32 AM

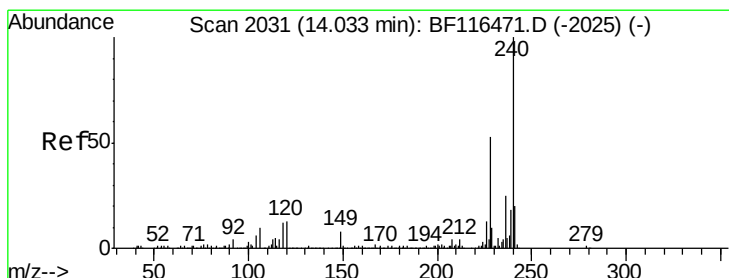
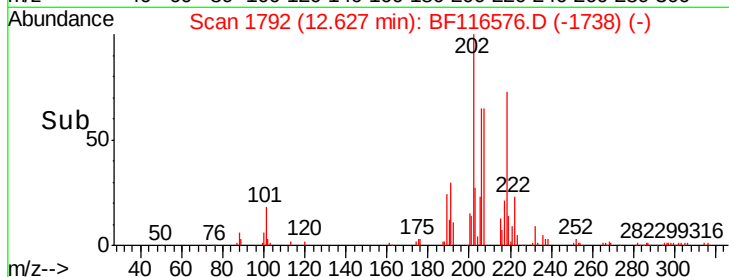
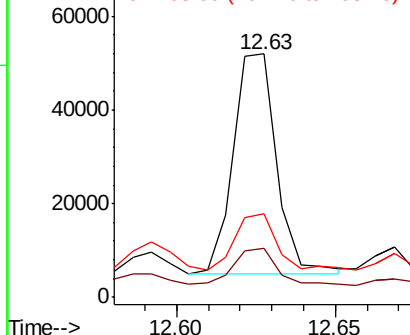


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2031

Delta R.T. -0.00 min

Lab File: BF116576.D

Acq: 26 Aug 2019 15:57

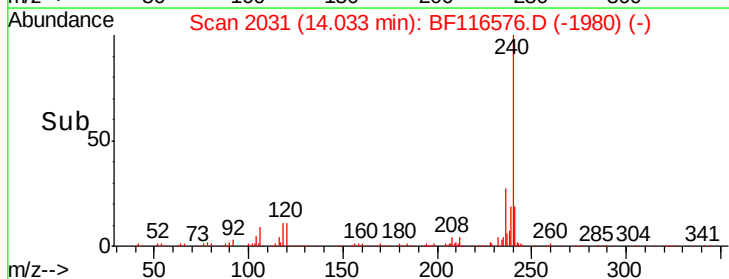
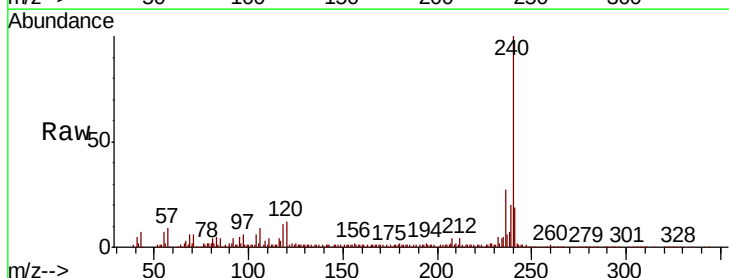
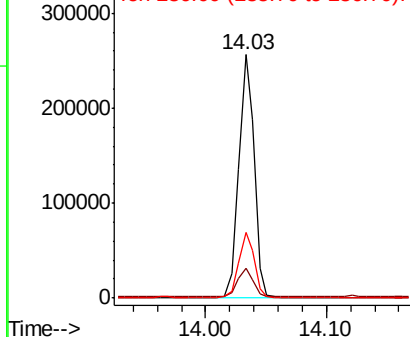
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 227407 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 12.3  | 10.5  | 15.7   |
| 236       | 27.2  | 20.2  | 30.2   |

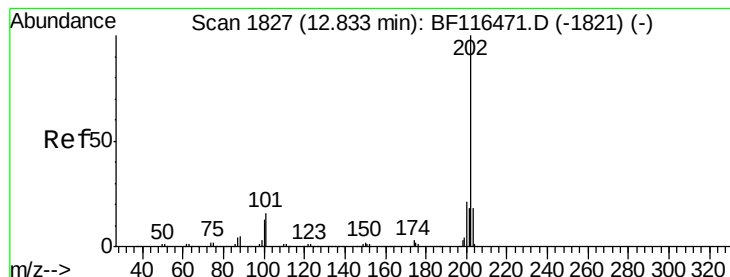
Abundance

Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 6.997 ng

RT: 12.85 min Scan# 1830

Delta R.T. 0.02 min

Lab File: BF116576.D

Acq: 26 Aug 2019 15:57

Instrument :

BNA\_F

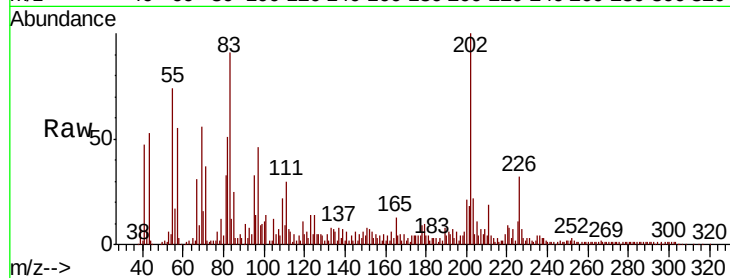
ClientSampled :

GW-1DL

| Tot Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 202     | 100  |       |      |       |       |
| 200     | 21.5 |       | 17.0 | 25.4  |       |
| 203     | 22.1 |       | 14.2 | 21.4  |       |

Manual Integrations  
APPROVED

Jagrut  
8/27/2019 10:30:32 AM

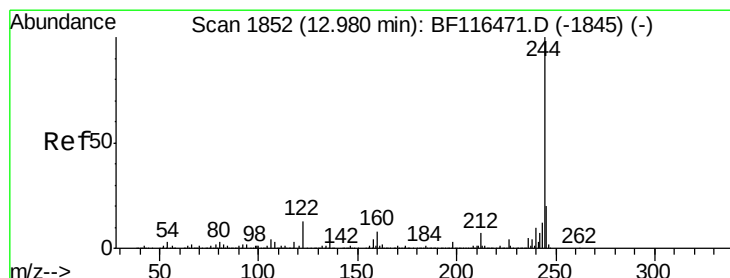
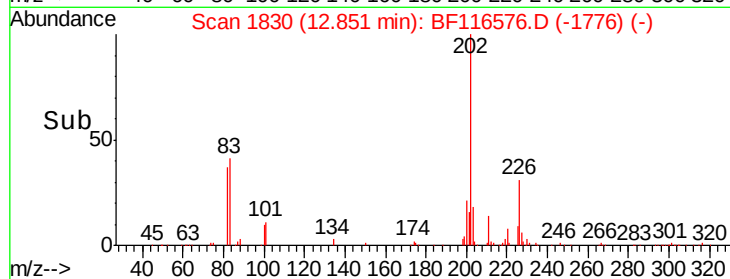
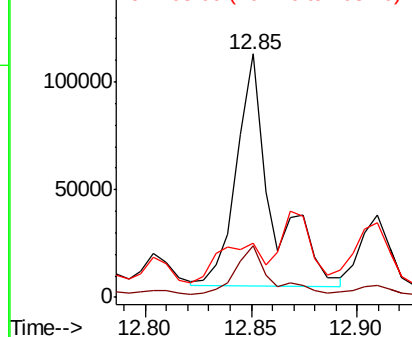


Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 14.253 ng

RT: 12.99 min Scan# 1853

Delta R.T. 0.01 min

Lab File: BF116576.D

Acq: 26 Aug 2019 15:57

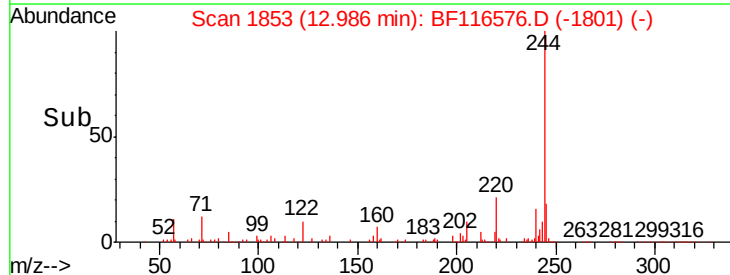
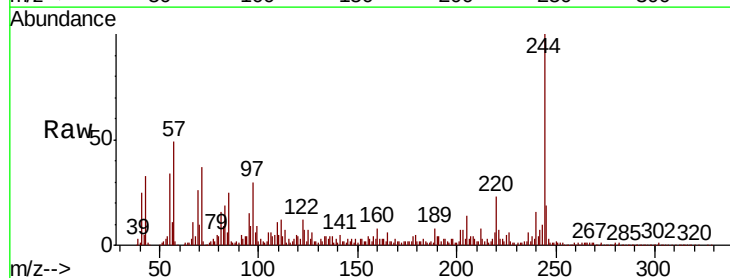
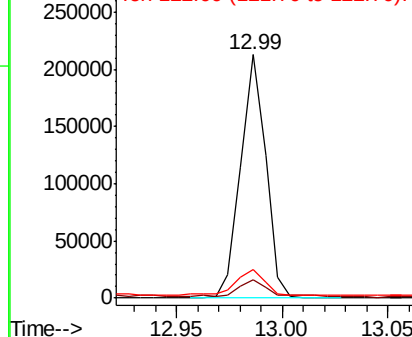
| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 244     | 100  |       |      |       |       |
| 212     | 7.5  |       | 5.7  | 8.5   |       |
| 122     | 11.9 |       | 10.2 | 15.4  |       |

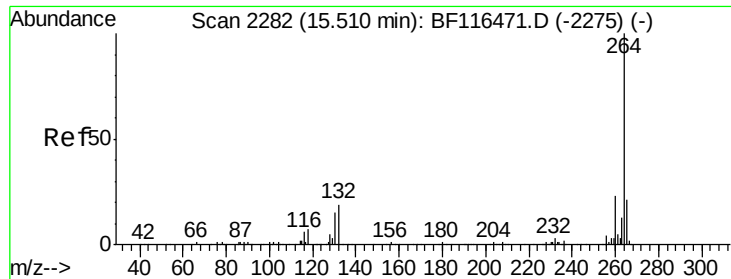
Abundance

Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.50 min Scan# 2280  
Delta R.T. -0.01 min  
Lab File: BF116576.D  
Acq: 26 Aug 2019 15:57

Instrument :  
BNA\_F  
ClientSampleId :  
GW-1DL

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 264     | 100   |            |       |
| 260     | 23.6  | 18.8       | 28.2  |
| 265     | 21.8  | 17.1       | 25.7  |

Manual Integrations  
APPROVED

Jagrut  
8/27/2019 10:30:32 AM

