

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\  
 Data File : BF116639.D  
 Acq On : 29 Aug 2019 2:24  
 Operator : HP/JU  
 Sample : K4543-03  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-2-S

Manual Integrations  
 APPROVED

Jagrut  
 8/29/2019 7:47:35 PM

Quant Time: Aug 29 04:40:28 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082819.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 28 13:34:15 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.86  | 152  | 72007    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.15  | 136  | 290282   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.90  | 164  | 93772    | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.38 | 188  | 147530   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.01 | 240  | 100398   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.47 | 264  | 105705   | 20.00 | ng    | 0.00     |

|                             |       |     |        |        |    |      |
|-----------------------------|-------|-----|--------|--------|----|------|
| System Monitoring Compounds |       |     |        |        |    |      |
| 5) 2-Fluorophenol           | 5.49  | 112 | 513191 | 123.10 | ng | 0.00 |
| 7) Phenol-d6                | 6.49  | 99  | 740132 | 130.95 | ng | 0.00 |
| 23) Nitrobenzene-d5         | 7.42  | 82  | 370848 | 73.10  | ng | 0.00 |
| 42) 2,4,6-Tribromophenol    | 10.68 | 330 | 89235  | 100.00 | ng | 0.00 |
| 45) 2-Fluorobiphenyl        | 9.22  | 172 | 549258 | 97.48  | ng | 0.00 |
| 79) Terphenyl-d14           | 12.96 | 244 | 298537 | 48.36  | ng | 0.00 |

|                            |       |     |         |         |    |     |
|----------------------------|-------|-----|---------|---------|----|-----|
| Target Compounds           |       |     |         | Qvalue  |    |     |
| 10) Phenol                 | 6.50  | 94  | 53778   | 8.674   | ng | 96  |
| 37) 2-Methylnaphthalene    | 8.86  | 142 | 20007   | 2.304   | ng | 96  |
| 38) 1-Methylnaphthalene    | 8.95  | 142 | 23395   | 2.759   | ng | 98  |
| 49) Acenaphthylene         | 9.76  | 152 | 19986   | 2.452   | ng | 97  |
| 50) Dimethylphthalate      | 9.60  | 163 | 67504   | 10.708  | ng | 100 |
| 52) Acenaphthene           | 9.93  | 154 | 48215   | 8.737   | ng | 95  |
| 55) Dibenzofuran           | 10.10 | 168 | 44174   | 5.944   | ng | 97  |
| 58) Fluorene               | 10.44 | 166 | 71199   | 12.624  | ng | 100 |
| 71) Phenanthrene           | 11.41 | 178 | 806432  | 101.769 | ng | 99  |
| 72) Anthracene             | 11.46 | 178 | 188002  | 23.728  | ng | 99  |
| 73) Carbazole              | 11.60 | 167 | 29967   | 4.444   | ng | 97  |
| 75) Fluoranthene           | 12.59 | 202 | 817491  | 115.030 | ng | 98  |
| 78) Pvrene                 | 12.82 | 202 | 637181  | 69.019  | ng | 99  |
| 81) Benzo(a)anthracene     | 14.00 | 228 | 293383  | 43.830  | ng | 96  |
| 83) Chrysene               | 14.04 | 228 | 250671  | 38.254  | ng | 98  |
| 86) Indeno(1,2,3-cd)pyrene | 16.92 | 276 | 190038  | 35.481  | ng | 95  |
| 88) Benzo(b)fluoranthene   | 15.05 | 252 | 275636m | 42.462  | ng |     |
| 89) Benzo(k)fluoranthene   | 15.07 | 252 | 108376m | 17.564  | ng |     |
| 90) Benzo(a)pvrene         | 15.41 | 252 | 192131  | 33.163  | ng | 97  |
| 91) Dibenzo(a,h)anthracene | 16.93 | 278 | 48970m  | 9.059   | ng |     |
| 92) Benzo(g,h,i)perylene   | 17.36 | 276 | 169960  | 30.237  | ng | 99  |

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

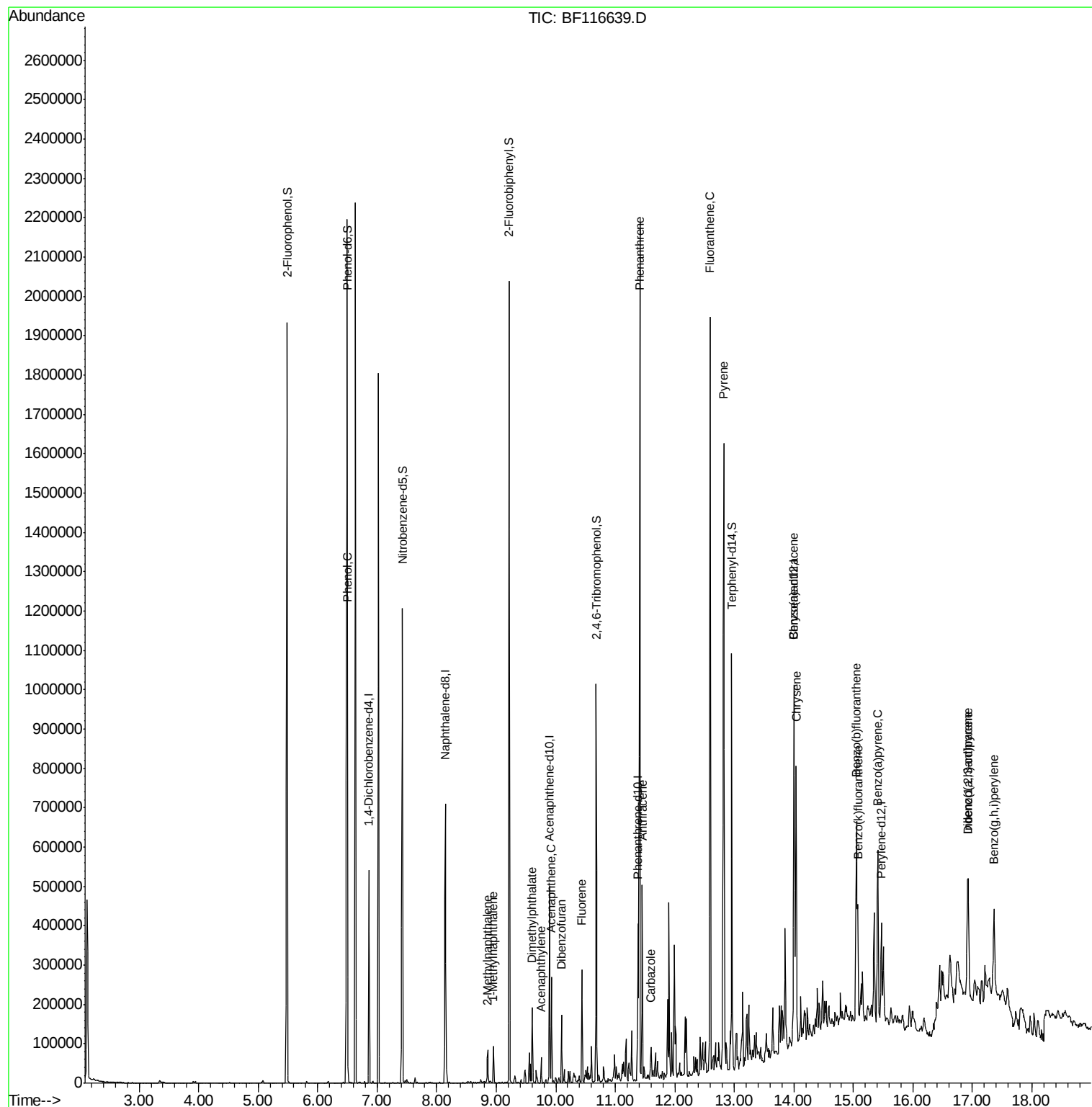
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF082819\  
Data File : BF116639.D  
Acq On : 29 Aug 2019 2:24  
Operator : HP/JU  
Sample : K4543-03  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

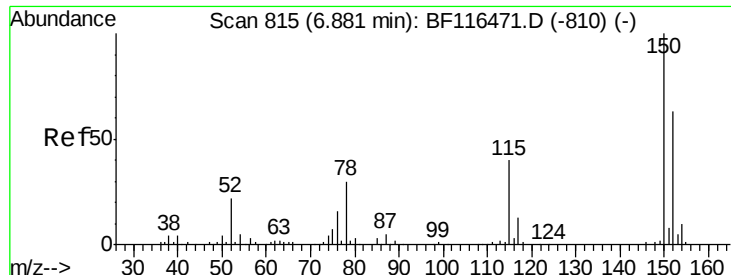
Instrument :  
BNA\_F  
ClientSampleId :  
TP-2-S

Manual Integrations  
APPROVED

Jagrut  
8/29/2019 7:47:35 PM

Quant Time: Aug 29 04:40:28 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082819.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 28 13:34:15 2019  
Response via : Initial Calibration





#1

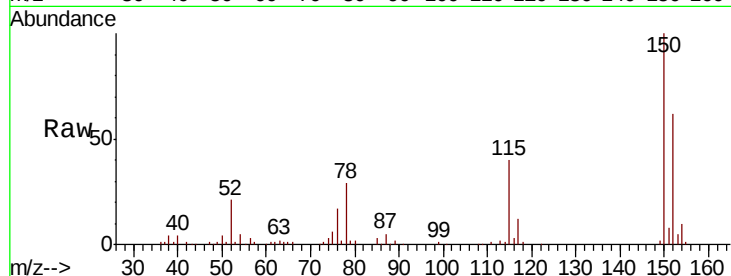
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 812  
Delta R.T. -0.01 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

Instrument :  
BNA\_F  
ClientSampled :  
TP-2-S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.0 | 123.4 | 185.2 |
| 115     | 64.0  | 48.2  | 72.2  |

Manual Integrations  
APPROVED

Jagrut  
8/29/2019 7:47:35 PM

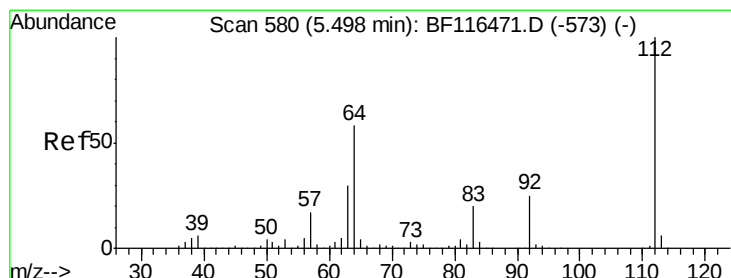
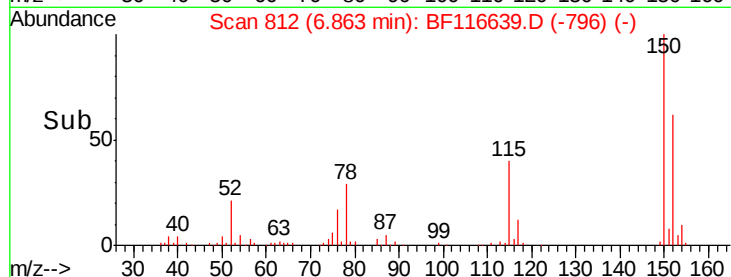
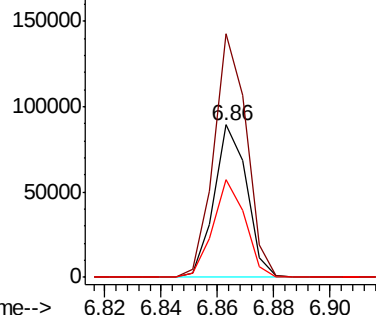


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

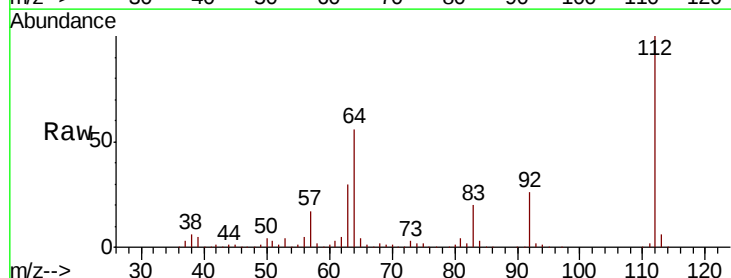
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 123.099 ng  
RT: 5.49 min Scan# 578  
Delta R.T. 0.01 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.2  | 48.0  | 72.0  |
| 63      | 29.5  | 24.6  | 36.8  |

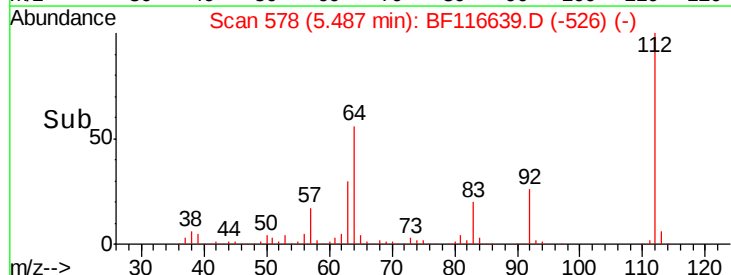
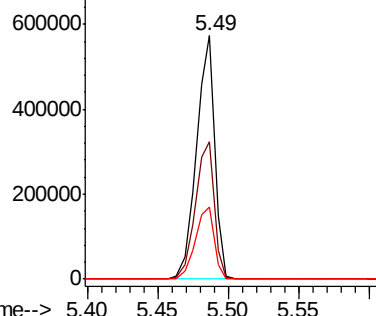


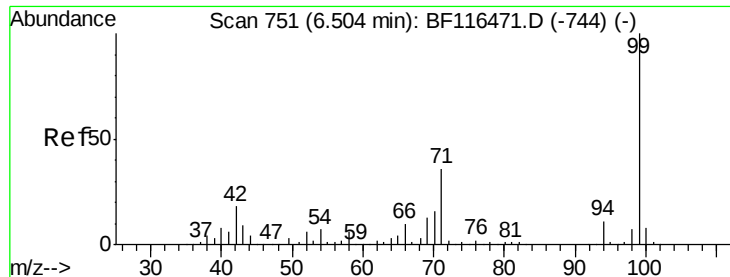
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 130.950 ng

RT: 6.49 min Scan# 749

Delta R.T. 0.00 min

Lab File: BF116639.D

Acq: 29 Aug 2019 2:24

Instrument :

BNA\_F

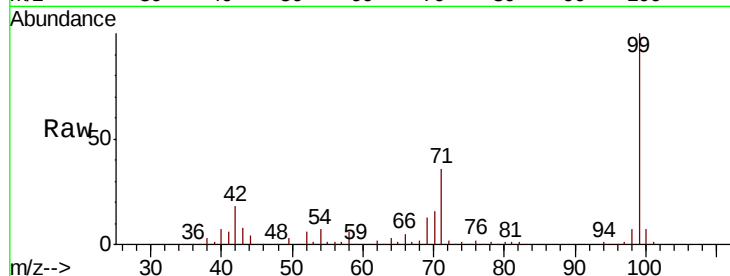
ClientSampled :

TP-2-S

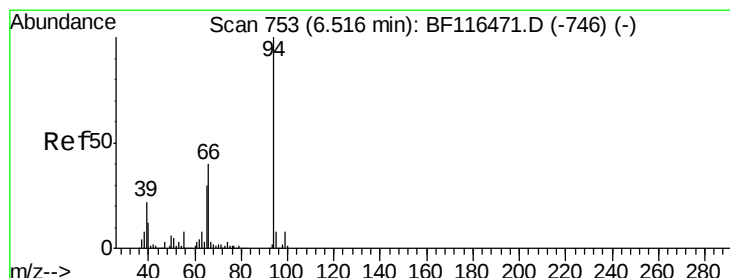
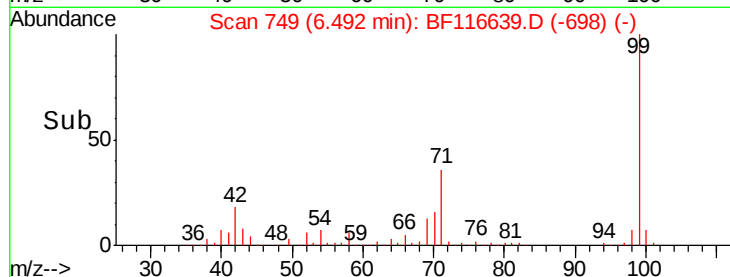
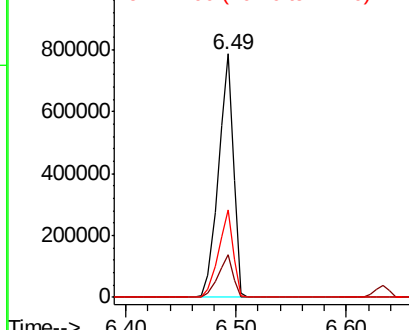
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 740132 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 17.7  | 13.2  | 19.8   |
| 71        | 36.1  | 27.4  | 41.2   |

Manual Integrations  
APPROVED

Jagrut  
8/29/2019 7:47:35 PM



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 8.674 ng

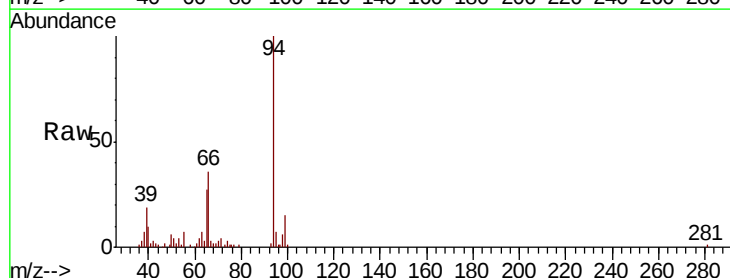
RT: 6.50 min Scan# 751

Delta R.T. 0.00 min

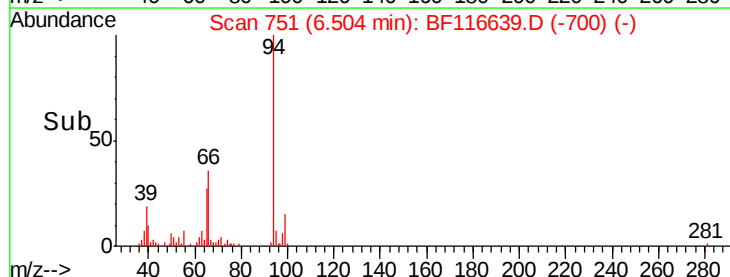
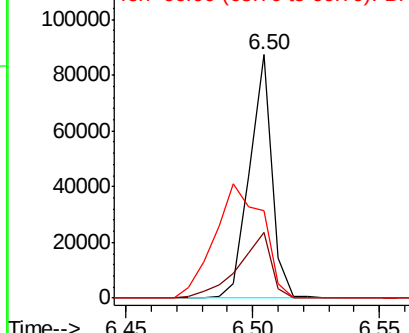
Lab File: BF116639.D

Acq: 29 Aug 2019 2:24

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 94    | Resp: | 53778 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 26.8  | 8.6   | 48.6  |
| 66        | 35.8  | 18.0  | 58.0  |



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1





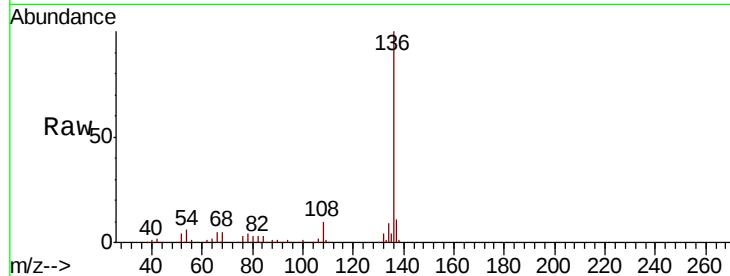
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.15 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

Instrument :  
BNA\_F  
ClientSampled :  
TP-2-S

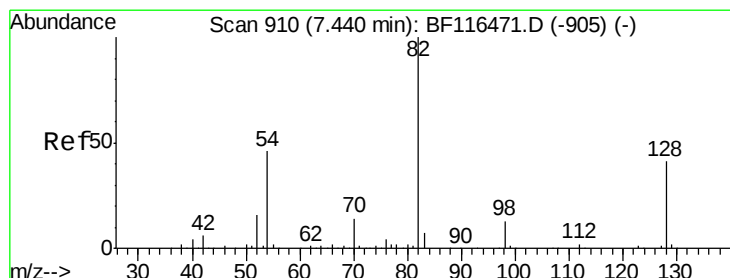
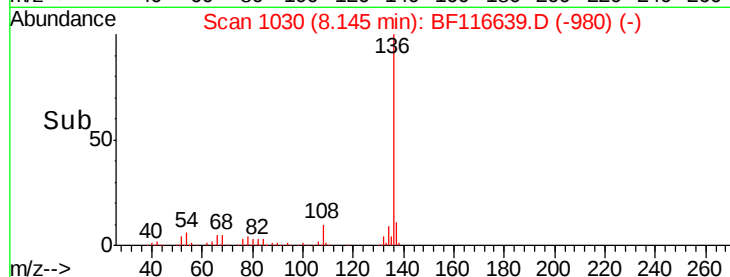
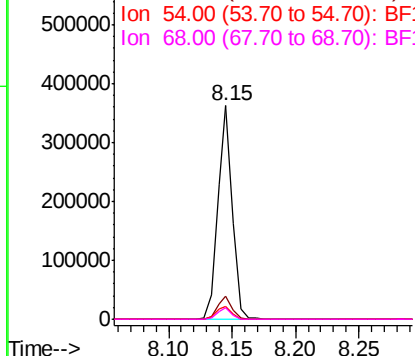
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 290282 |       |       |
| 137     | 10.9  | 8.7    | 13.1  |       |
| 54      | 5.9   | 5.0    | 7.4   |       |
| 68      | 5.2   | 4.5    | 6.7   |       |

Manual Integrations  
APPROVED

Jagrut  
8/29/2019 7:47:35 PM

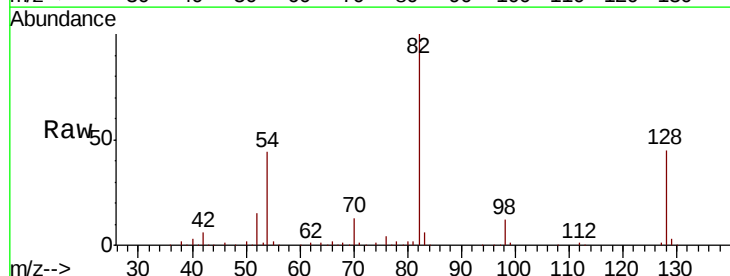


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

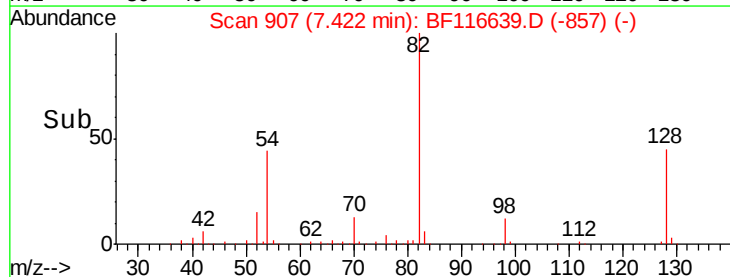
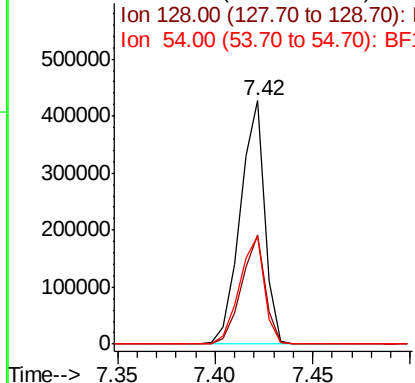


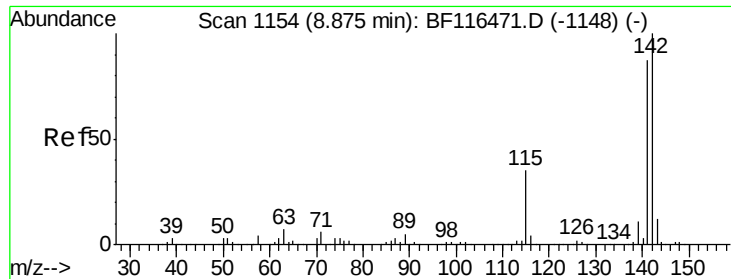
#23  
Nitrobenzene-d5  
Concen: 73.101 ng  
RT: 7.42 min Scan# 907  
Delta R.T. -0.01 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 370848 |       |       |
| 128     | 45.0  | 35.0   | 52.6  |       |
| 54      | 44.4  | 34.4   | 51.6  |       |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1





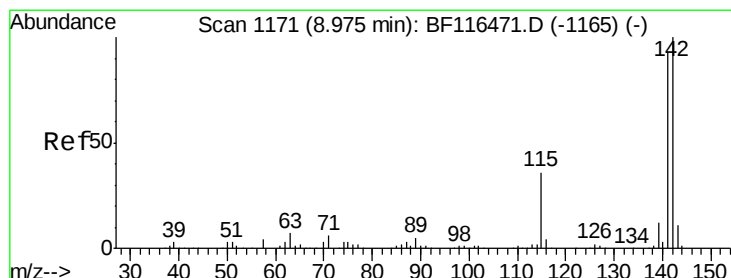
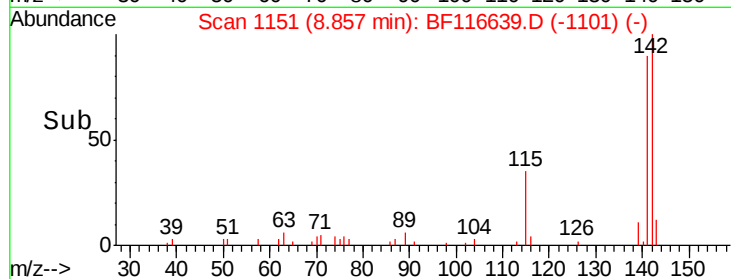
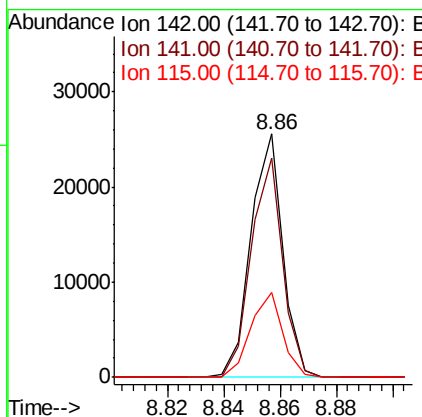
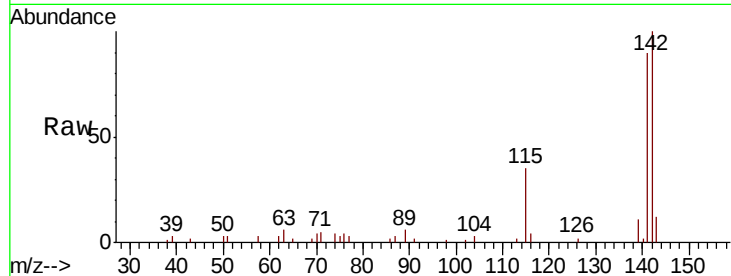
#37  
2-Methylnaphthalene  
Concen: 2.304 ng  
RT: 8.86 min Scan# 1151  
Delta R.T. -0.01 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

Instrument :  
BNA\_F  
ClientSampleId :  
TP-2-S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.3  | 69.5  | 104.3 |
| 115     | 34.6  | 26.0  | 39.0  |

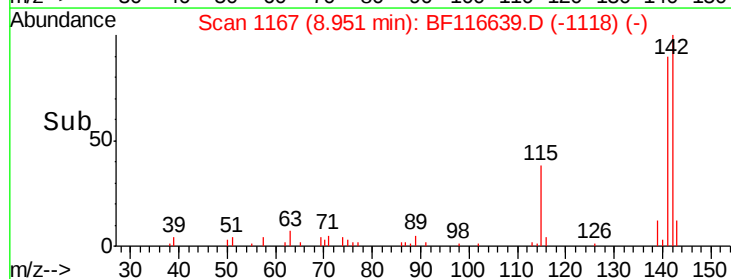
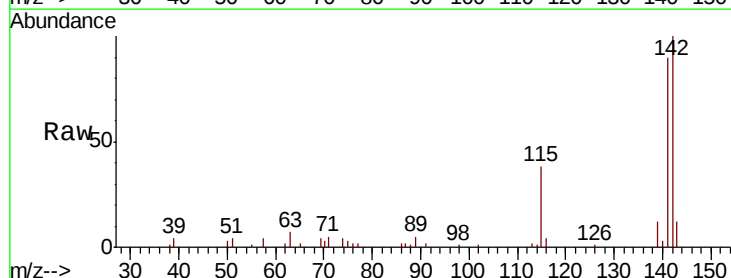
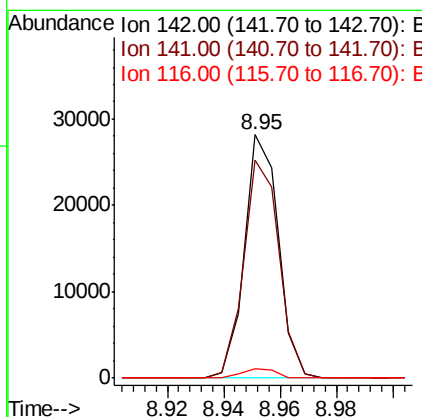
Manual Integrations  
APPROVED

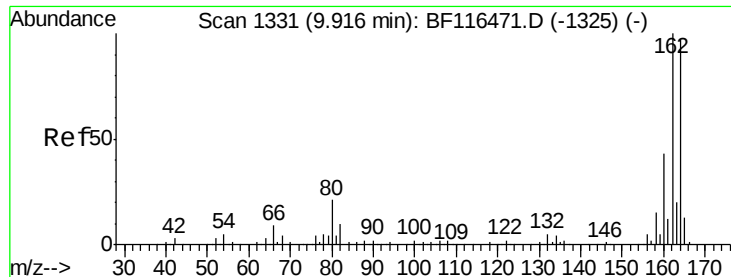
Jagrut  
8/29/2019 7:47:35 PM



#38  
1-Methylnaphthalene  
Concen: 2.759 ng  
RT: 8.95 min Scan# 1167  
Delta R.T. -0.01 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.6  | 73.1  | 109.7 |
| 116     | 3.9   | 2.7   | 4.1   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.01 min

Lab File: BF116639.D

Acq: 29 Aug 2019 2:24

Instrument :

BNA\_F

ClientSampleId :

TP-2-S

Tot Ion:164 Resp: 93772

Ion Ratio Lower Upper

164 100

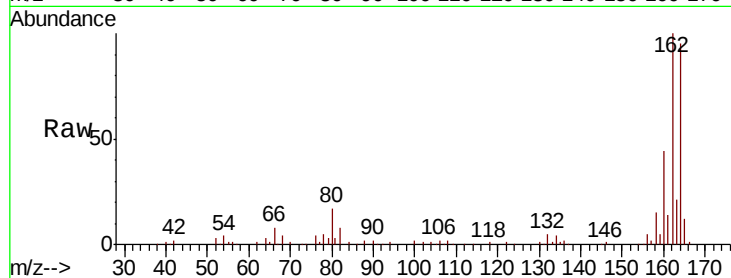
162 105.7 83.4 125.0

160 46.0 37.0 55.4

Manual Integrations  
APPROVED

Jagrut

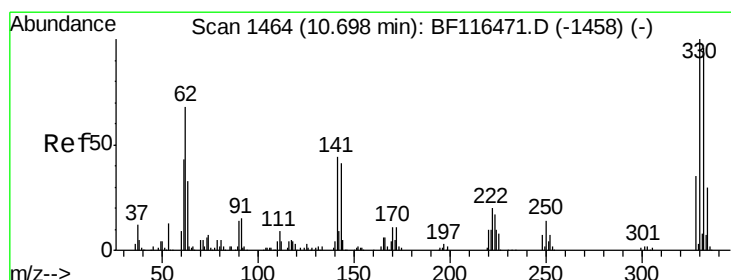
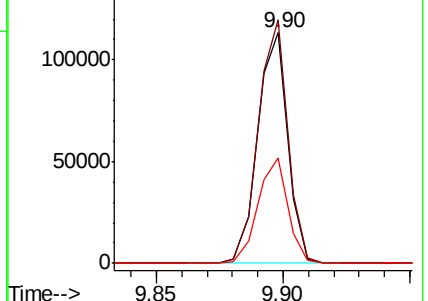
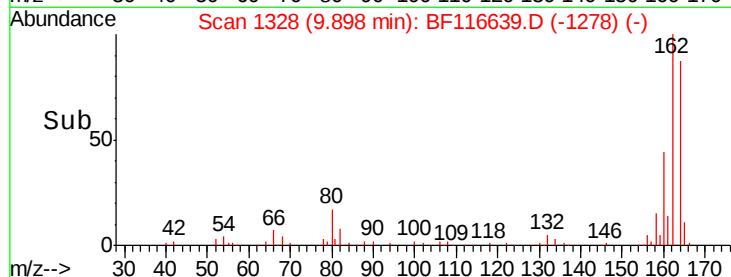
8/29/2019 7:47:35 PM



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42

2,4,6-Tribromophenol

Concen: 100.001 ng

RT: 10.68 min Scan# 1461

Delta R.T. -0.01 min

Lab File: BF116639.D

Acq: 29 Aug 2019 2:24

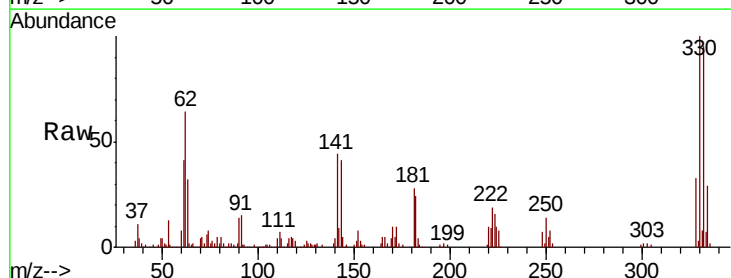
Tgt Ion:330 Resp: 89235

Ion Ratio Lower Upper

330 100

332 95.9 77.5 116.3

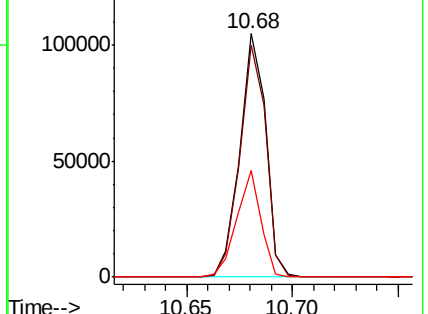
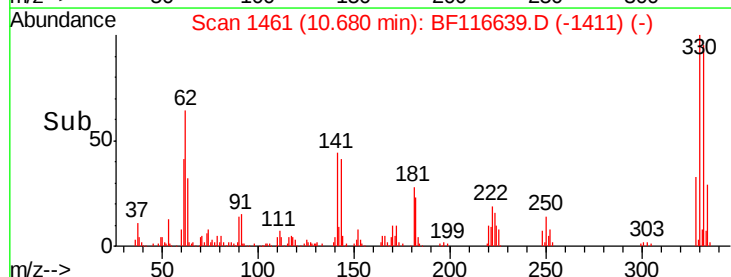
141 41.0 28.2 42.2

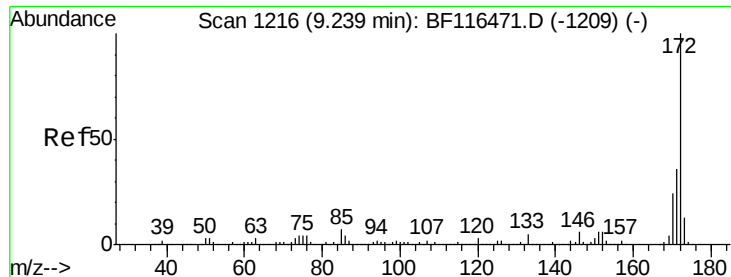


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





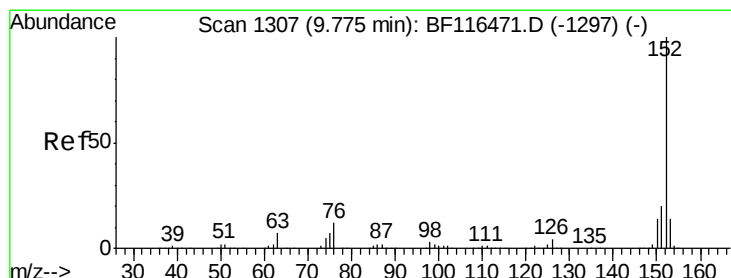
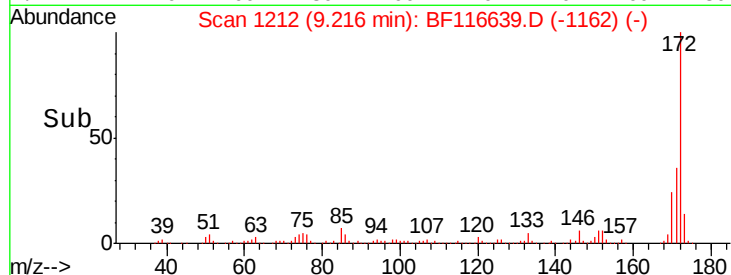
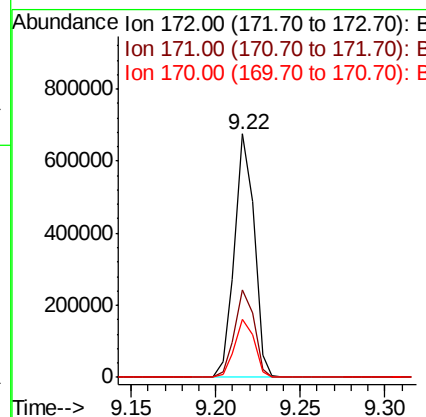
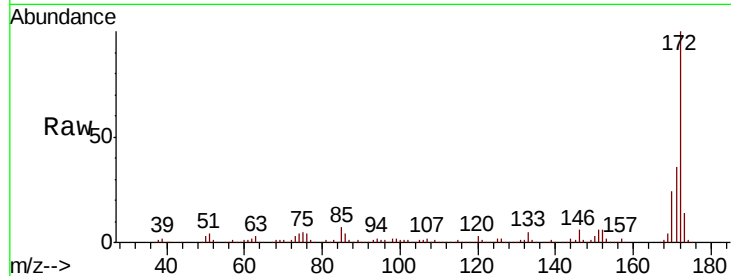
#45  
2-Fluorobiphenyl  
Concen: 97.478 ng  
RT: 9.22 min Scan# 1212  
Delta R.T. -0.01 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

Instrument :  
BNA\_F  
ClientSampleId :  
TP-2-S

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 172     | 100   |            |       |
| 171     | 35.8  | 29.0       | 43.6  |
| 170     | 23.8  | 19.3       | 28.9  |

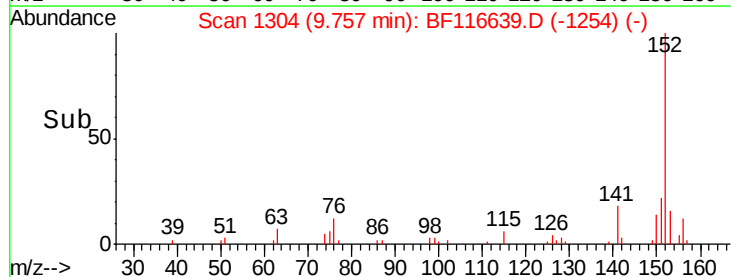
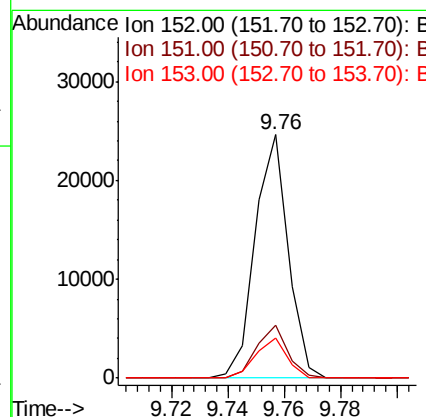
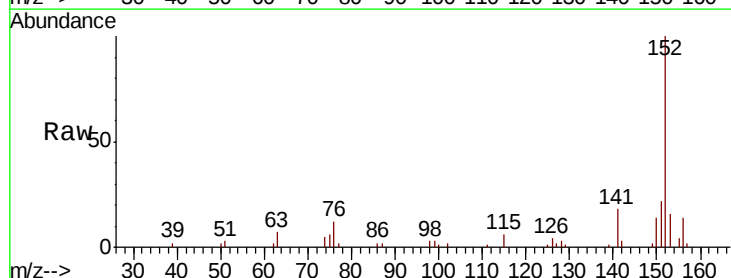
Manual Integrations  
APPROVED

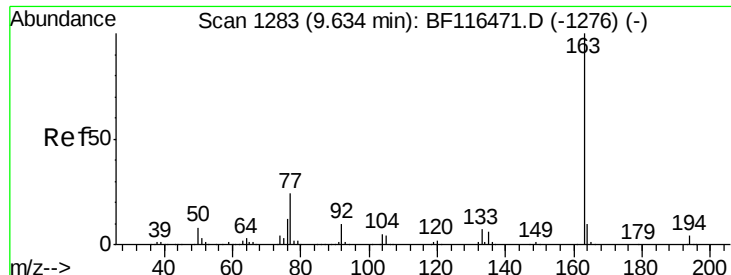
Jagrut  
8/29/2019 7:47:35 PM



#49  
Acenaphthylene  
Concen: 2.452 ng  
RT: 9.76 min Scan# 1304  
Delta R.T. -0.01 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 152     | 100   |            |       |
| 151     | 21.6  | 16.4       | 24.6  |
| 153     | 16.2  | 11.3       | 16.9  |





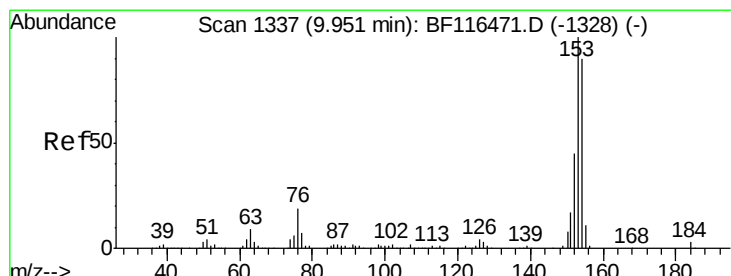
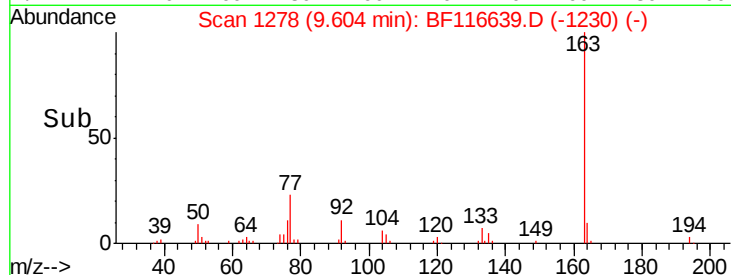
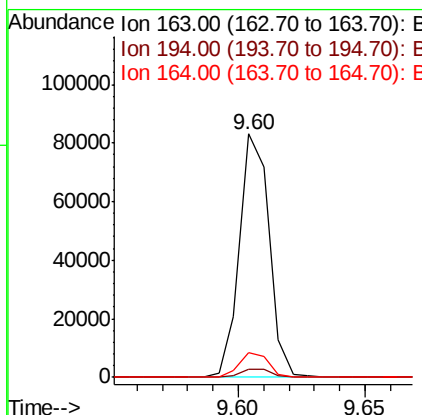
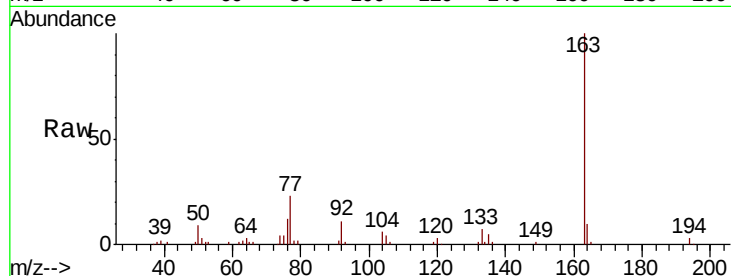
#50  
Dimethylphthalate  
Concen: 10.708 ng  
RT: 9.60 min Scan# 1278  
Delta R.T. -0.02 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

Instrument :  
BNA\_F  
ClientSampled :  
TP-2-S

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 67504 |       |       |
| 194     | 3.4   |       | 3.0   | 4.6   |
| 164     | 10.3  |       | 8.2   | 12.2  |

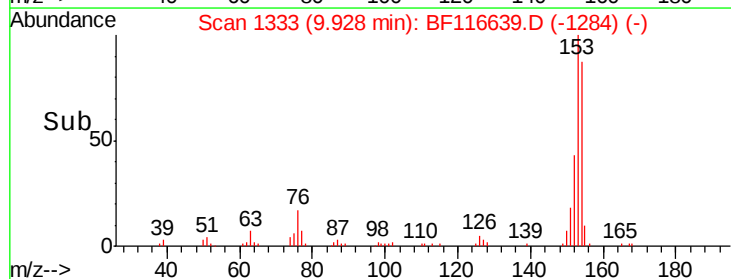
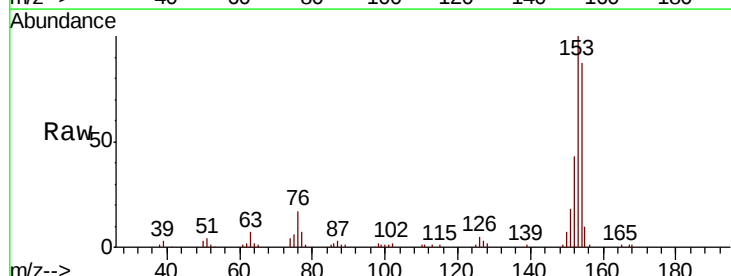
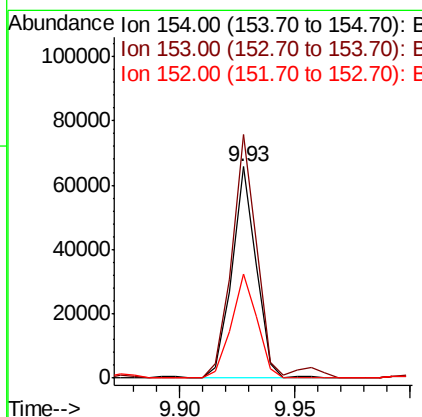
Manual Integrations  
APPROVED

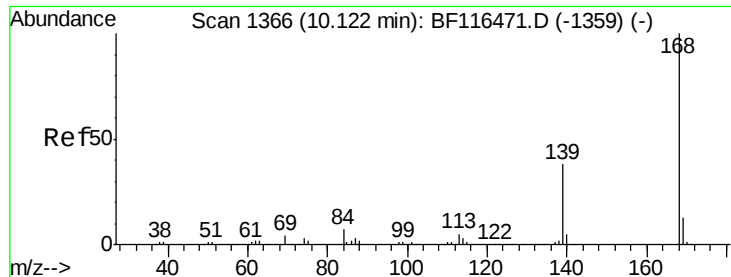
Jagrut  
8/29/2019 7:47:35 PM



#52  
Acenaphthene  
Concen: 8.737 ng  
RT: 9.93 min Scan# 1333  
Delta R.T. -0.01 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 154     | 100   | 48215 |       |       |
| 153     | 115.3 |       | 86.6  | 129.8 |
| 152     | 49.0  |       | 39.4  | 59.0  |





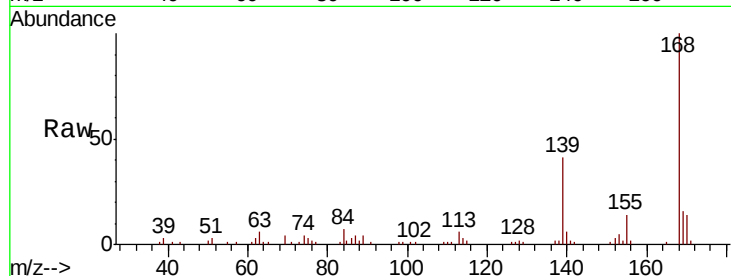
#55  
Dibenzenofuran  
Concen: 5.944 ng  
RT: 10.10 min Scan# 1362  
Delta R.T. -0.01 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

Instrument :  
BNA\_F  
ClientSampleId :  
TP-2-S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 40.6  | 31.3  | 46.9  |
| 169     | 15.6  | 11.3  | 16.9  |

Manual Integrations  
APPROVED

Jagrut  
8/29/2019 7:47:35 PM

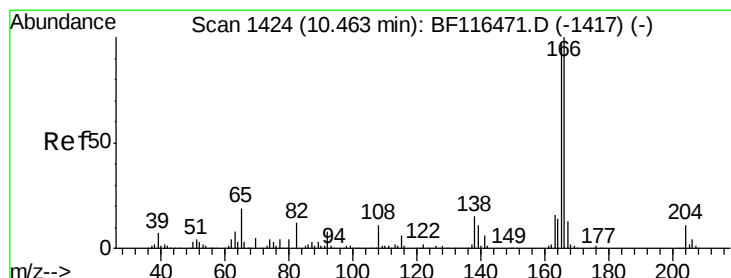
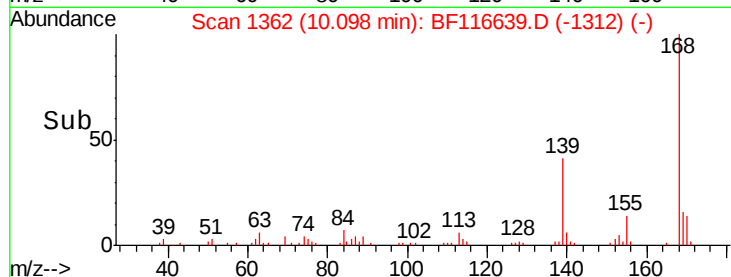
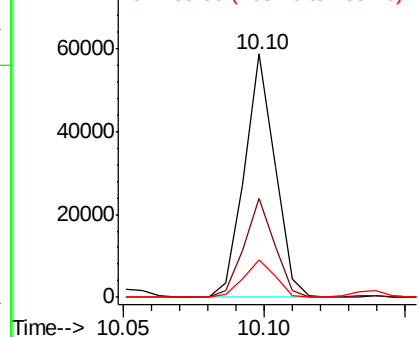


Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#58  
Fluorene  
Concen: 12.624 ng  
RT: 10.44 min Scan# 1420  
Delta R.T. -0.01 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

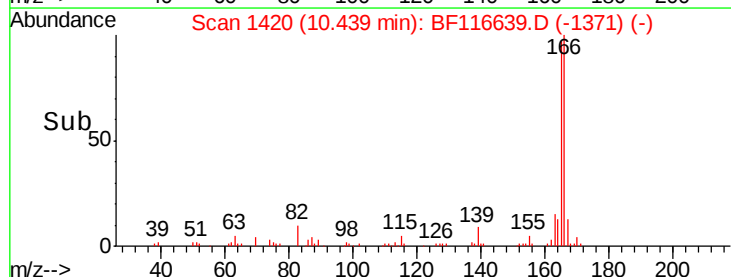
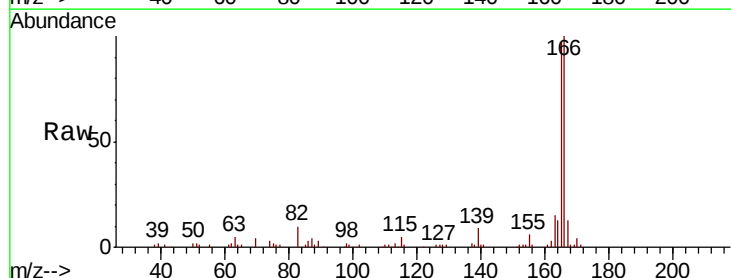
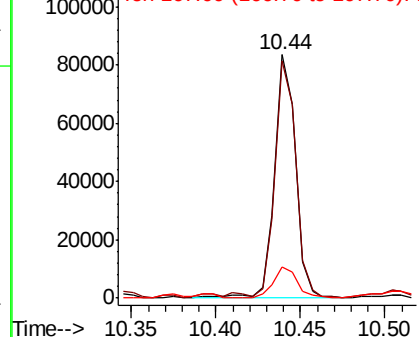
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.4  | 77.8  | 116.6 |
| 167     | 12.9  | 10.6  | 16.0  |

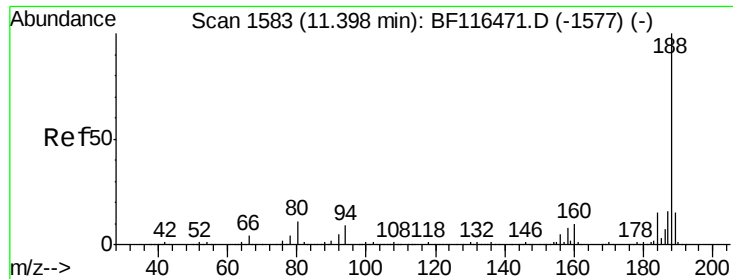
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





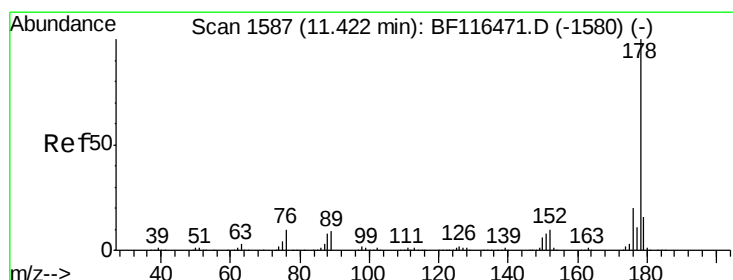
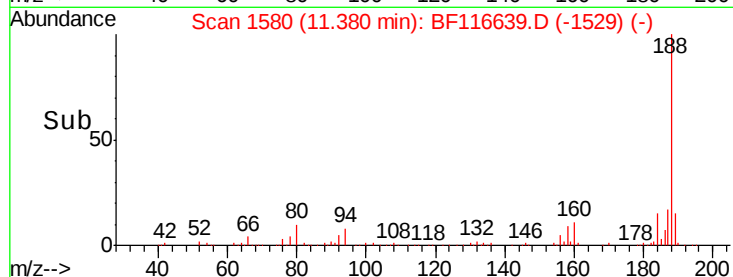
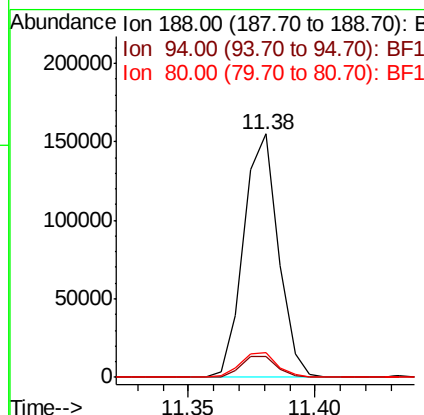
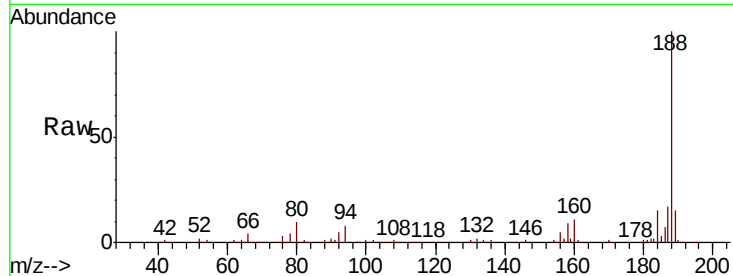
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.38 min Scan# 1580  
Delta R.T. 0.00 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

Instrument :  
BNA\_F  
ClientSampleId :  
TP-2-S

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 8.4   | 8.2        | 12.4  |
| 80      | 10.1  | 8.9        | 13.3  |

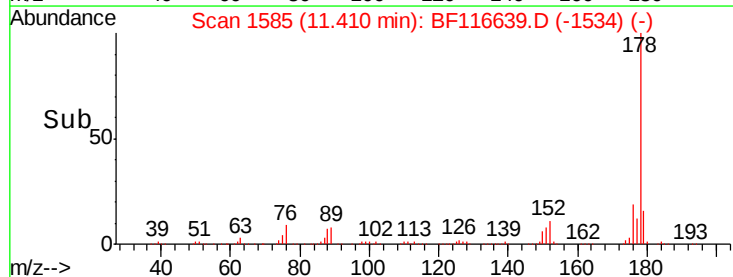
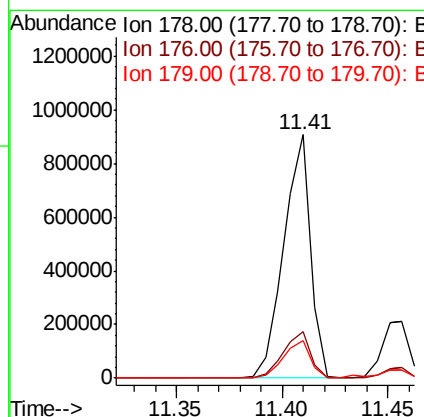
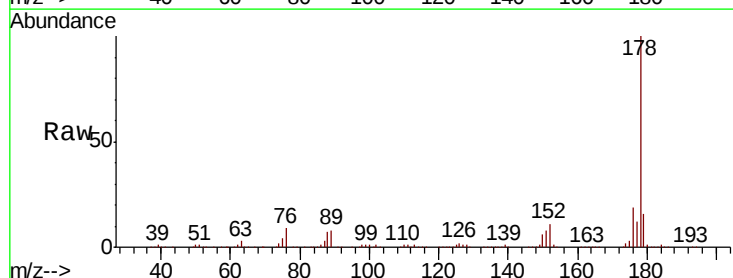
Manual Integrations  
APPROVED

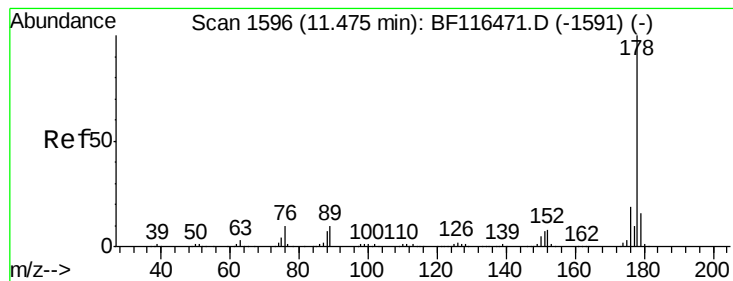
Jagrut  
8/29/2019 7:47:35 PM



#71  
Phenanthrene  
Concen: 101.769 ng  
RT: 11.41 min Scan# 1585  
Delta R.T. -0.00 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 19.1  | 15.5       | 23.3  |
| 179     | 15.6  | 12.4       | 18.6  |





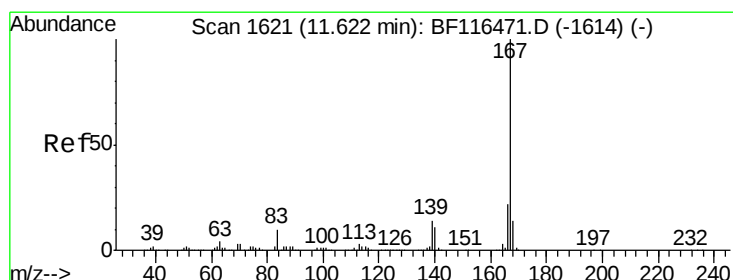
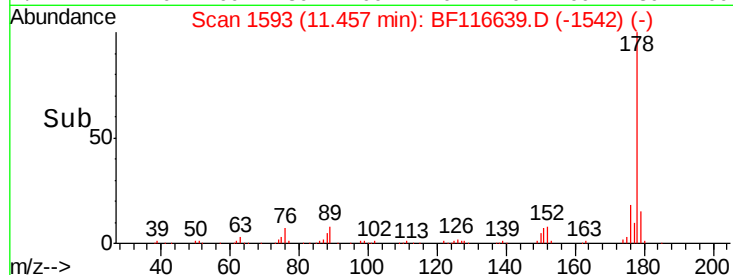
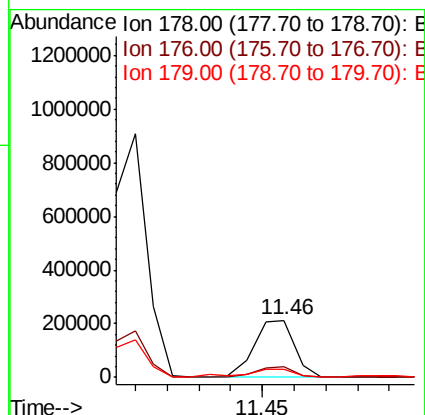
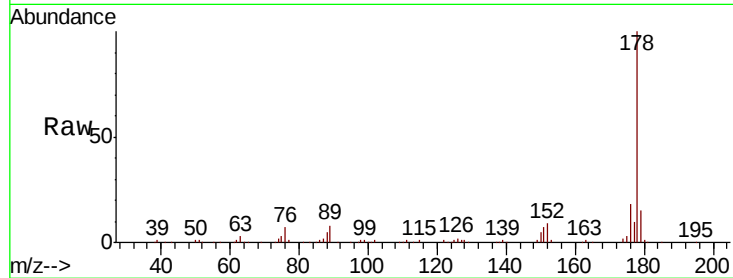
#72  
 Anthracene  
 Concen: 23.728 ng  
 RT: 11.46 min Scan# 1593  
 Delta R.T. 0.00 min  
 Lab File: BF116639.D  
 Acq: 29 Aug 2019 2:24

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-2-S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.4  | 15.1  | 22.7  |
| 179     | 15.1  | 12.7  | 19.1  |

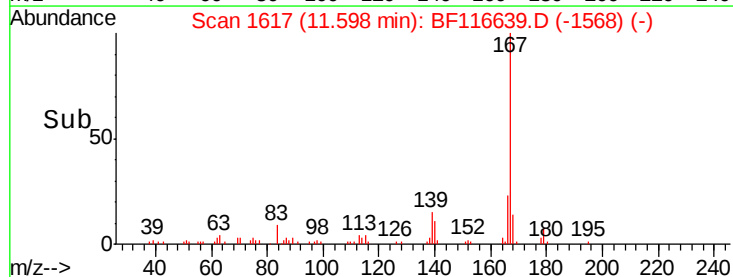
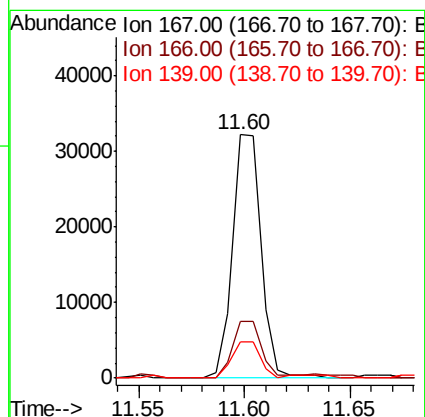
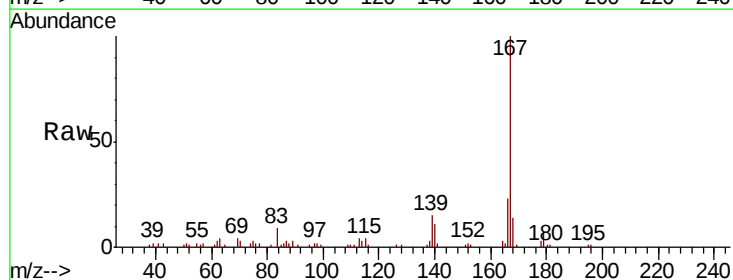
Manual Integrations  
 APPROVED

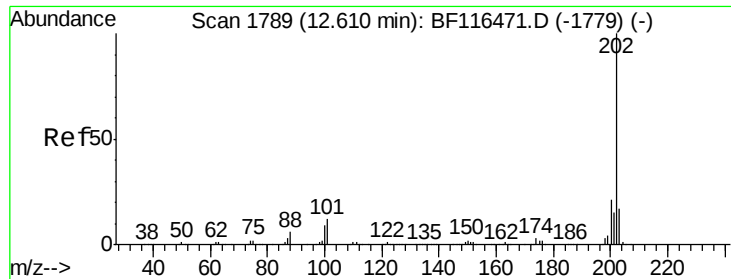
Jagrut  
 8/29/2019 7:47:35 PM



#73  
 Carbazole  
 Concen: 4.444 ng  
 RT: 11.60 min Scan# 1617  
 Delta R.T. -0.01 min  
 Lab File: BF116639.D  
 Acq: 29 Aug 2019 2:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 23.2  | 17.9  | 26.9  |
| 139     | 14.9  | 10.3  | 15.5  |





#75

Fluoranthene

Concen: 115.030 ng

RT: 12.59 min Scan# 1786

Delta R.T. 0.00 min

Lab File: BF116639.D

Acq: 29 Aug 2019 2:24

Instrument :

BNA\_F

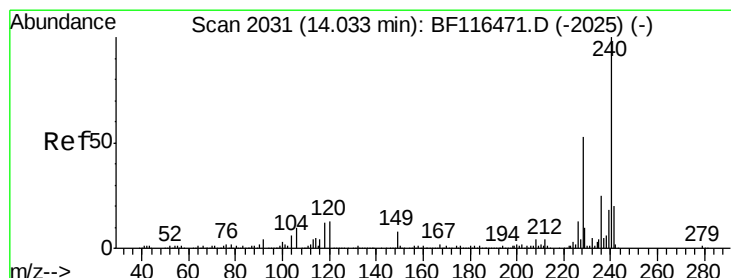
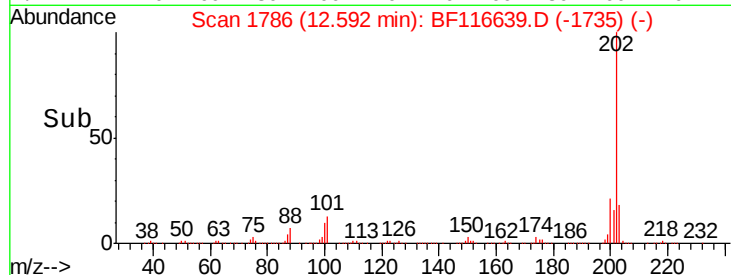
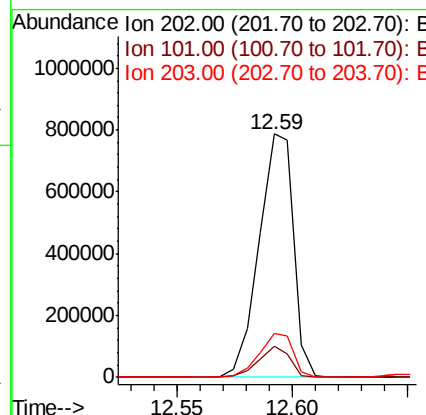
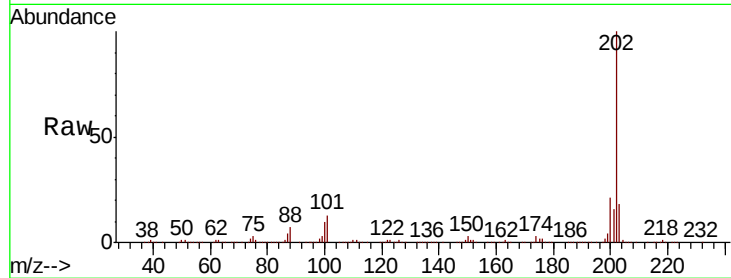
ClientSampled :

TP-2-S

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 817491 |       |       |
| 101     | 12.6  | 0.0    | 31.8  |       |
| 203     | 18.0  | 0.0    | 37.1  |       |

Manual Integrations  
APPROVED

Jagrut  
8/29/2019 7:47:35 PM



#76

Chrysene-d12

Concen: 20.000 ng

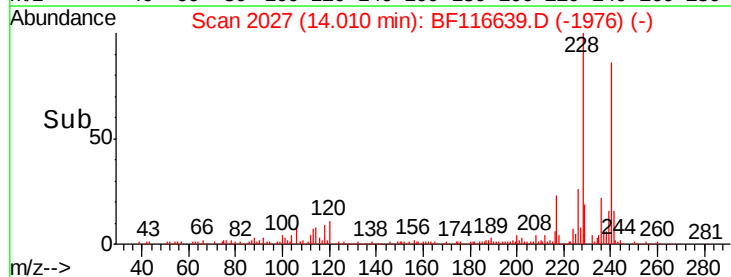
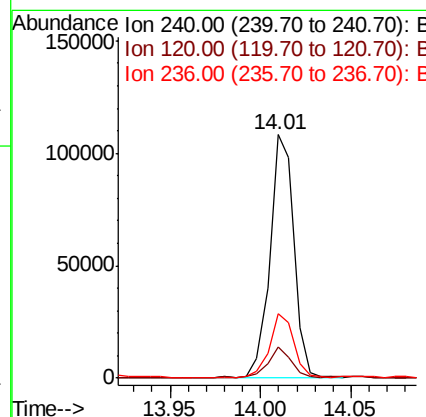
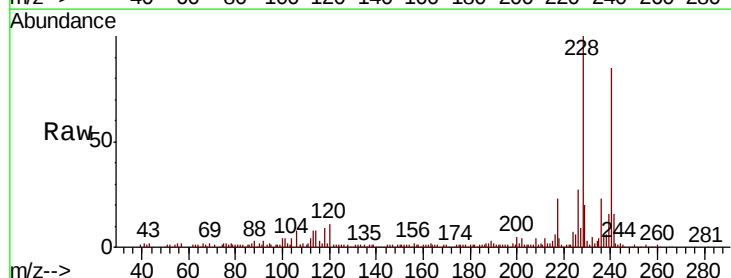
RT: 14.01 min Scan# 2027

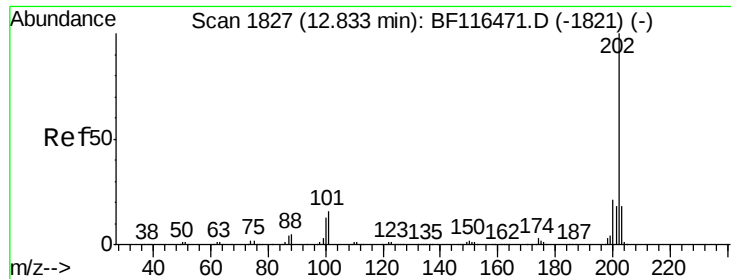
Delta R.T. -0.00 min

Lab File: BF116639.D

Acq: 29 Aug 2019 2:24

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 100398 |       |       |
| 120     | 12.9  | 11.3   | 16.9  |       |
| 236     | 26.5  | 21.4   | 32.2  |       |





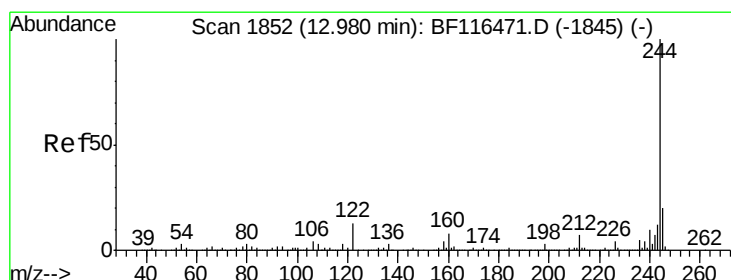
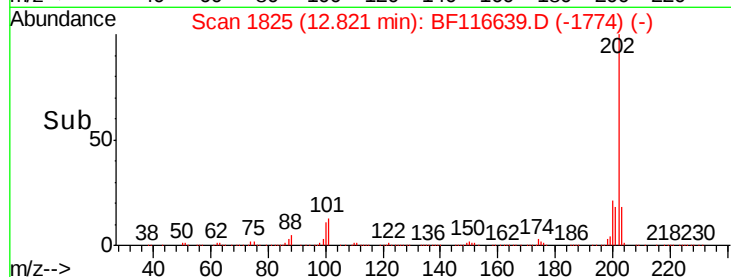
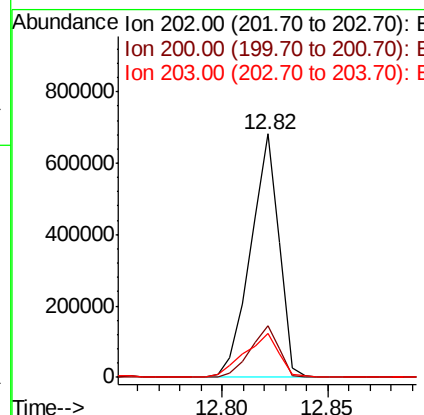
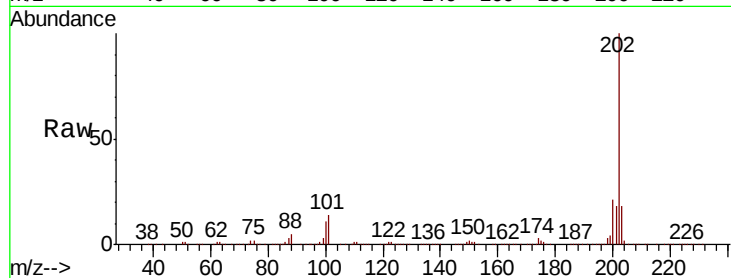
#78  
Pvrene  
Concen: 69.019 ng  
RT: 12.82 min Scan# 1825  
Delta R.T. 0.00 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

Instrument :  
BNA\_F  
ClientSampleId :  
TP-2-S

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 200     | 21.3  | 17.4       | 26.0       |
| 203     | 17.9  | 14.2       | 21.4       |

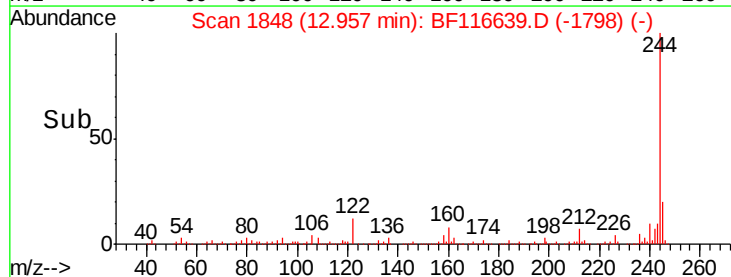
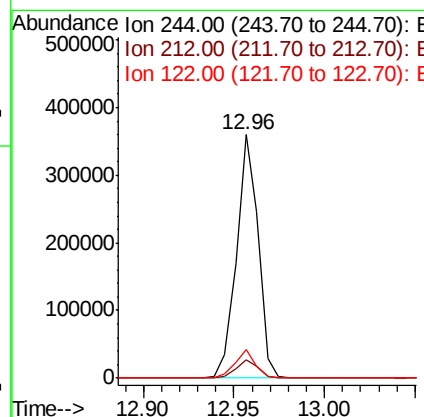
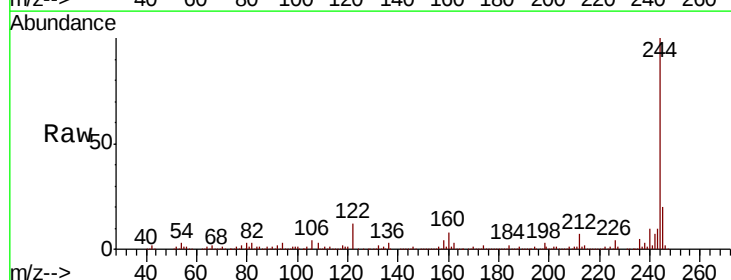
Manual Integrations  
APPROVED

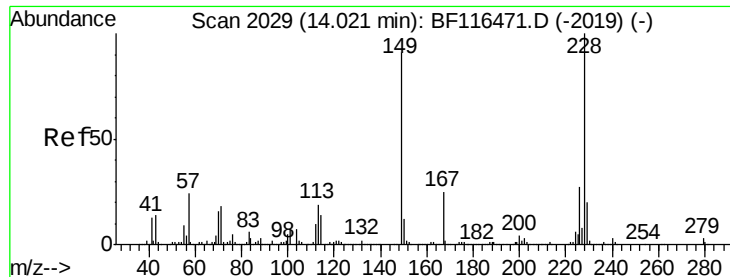
Jagrut  
8/29/2019 7:47:35 PM



#79  
Terphenyl-d14  
Concen: 48.360 ng  
RT: 12.96 min Scan# 1848  
Delta R.T. -0.01 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 244     | 100   |            |            |
| 212     | 7.3   | 5.9        | 8.9        |
| 122     | 11.8  | 10.0       | 15.0       |





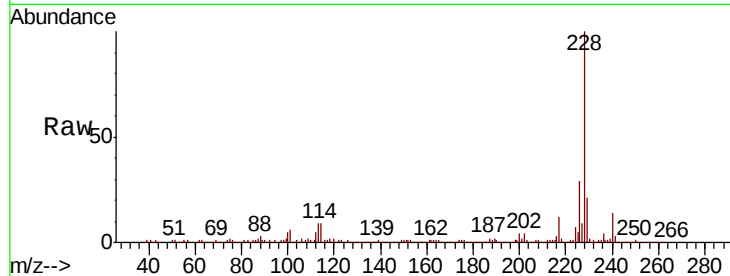
#81  
Benzo(a)anthracene  
Concen: 43.830 ng  
RT: 14.00 min Scan# 2026  
Delta R.T. -0.00 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

Instrument :  
BNA\_F  
ClientSampleId :  
TP-2-S

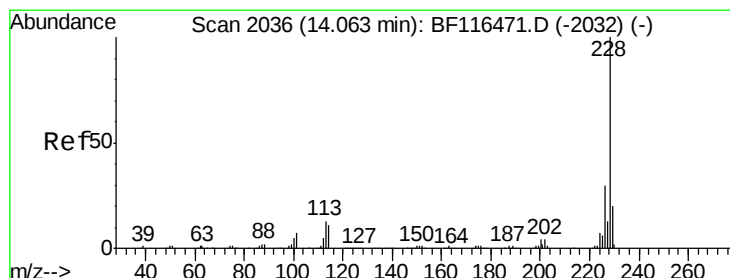
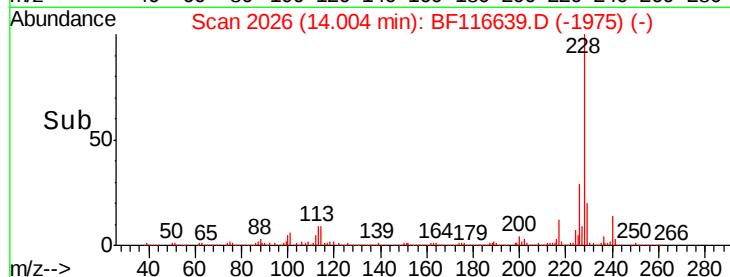
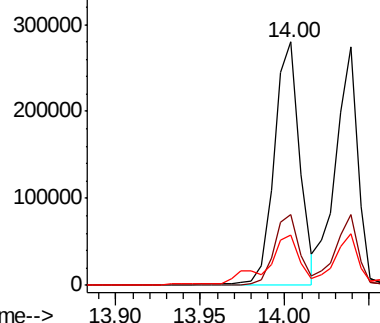
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.9  | 21.5  | 32.3  |
| 229     | 20.7  | 15.4  | 23.0  |

Manual Integrations  
APPROVED

Jagrut  
8/29/2019 7:47:35 PM



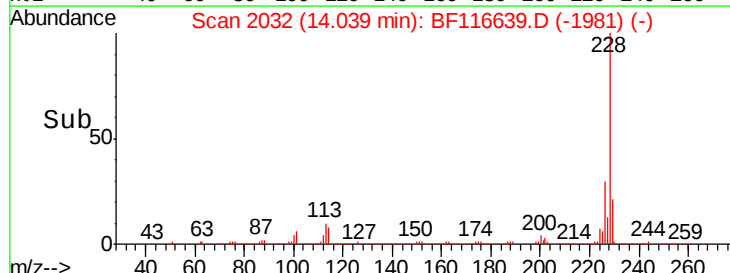
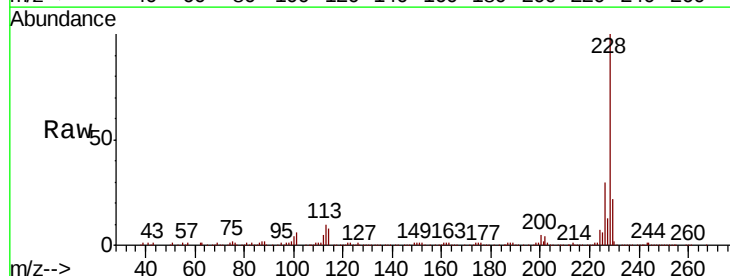
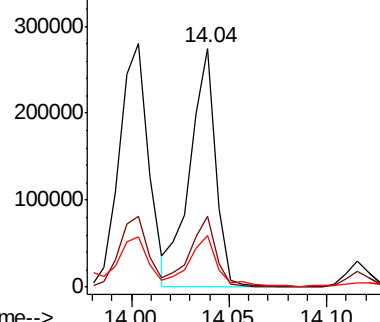
Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

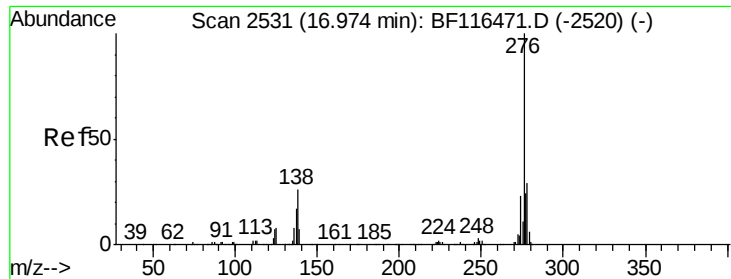


#83  
Chrysene  
Concen: 38.254 ng  
RT: 14.04 min Scan# 2032  
Delta R.T. 0.00 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.7  | 24.0  | 36.0  |
| 229     | 21.6  | 15.8  | 23.8  |

Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





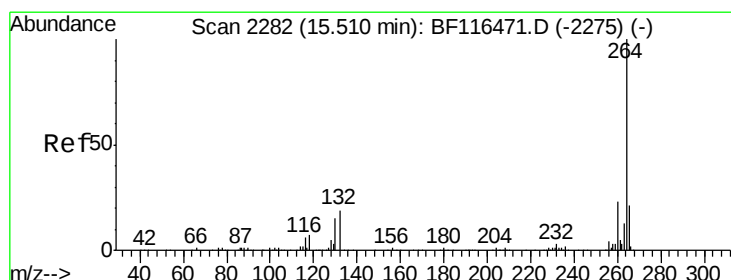
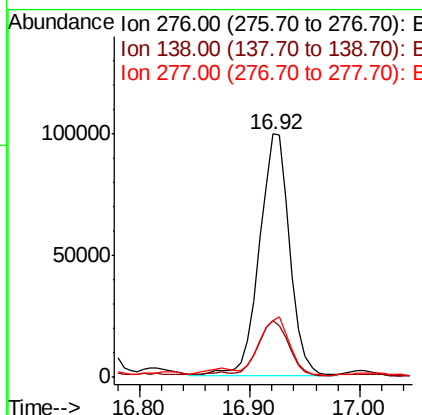
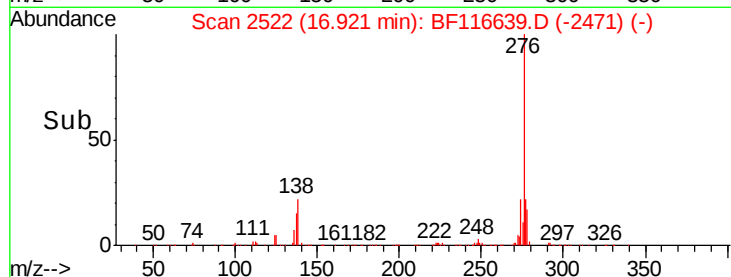
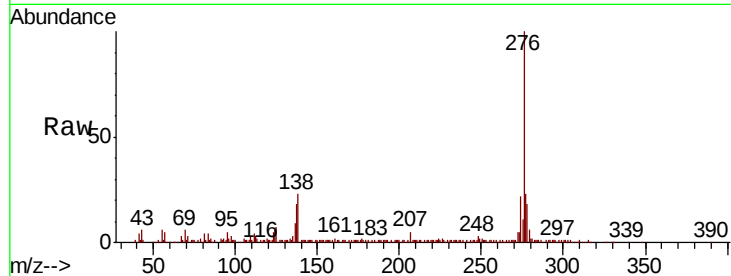
#86  
 Indeno(1,2,3-cd)pyrene  
 Concen: 35.481 ng  
 RT: 16.92 min Scan# 2522  
 Delta R.T. 0.00 min  
 Lab File: BF116639.D  
 Acq: 29 Aug 2019 2:24

Instrument :  
 BNA\_F  
 ClientSampled :  
 TP-2-S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.7  | 21.5  | 32.3  |
| 277     | 23.9  | 20.0  | 30.0  |

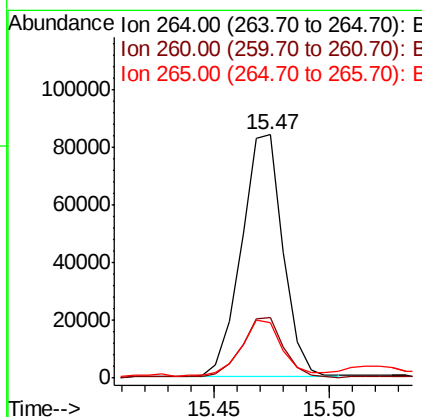
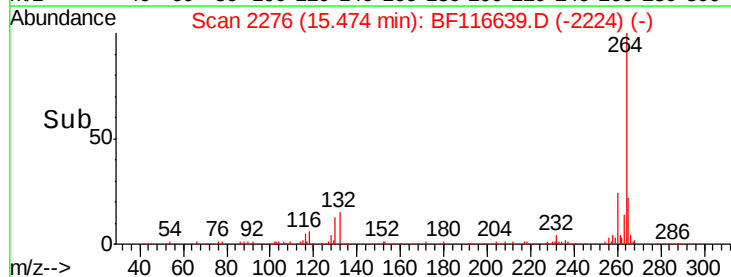
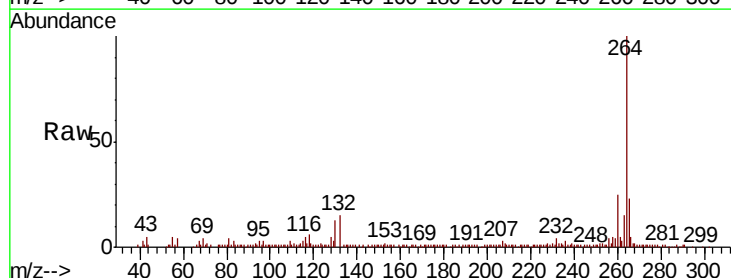
Manual Integrations  
 APPROVED

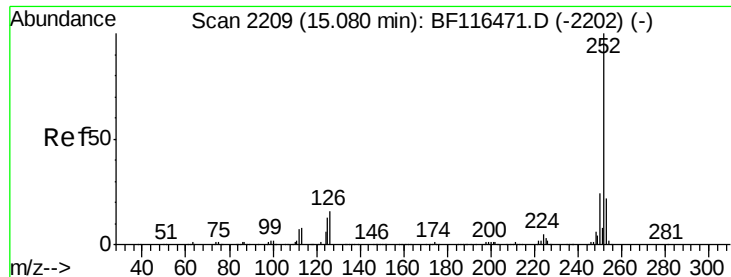
Jagrut  
 8/29/2019 7:47:35 PM



#87  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.47 min Scan# 2276  
 Delta R.T. 0.01 min  
 Lab File: BF116639.D  
 Acq: 29 Aug 2019 2:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.9  | 20.0  | 30.0  |
| 265     | 22.5  | 17.6  | 26.4  |





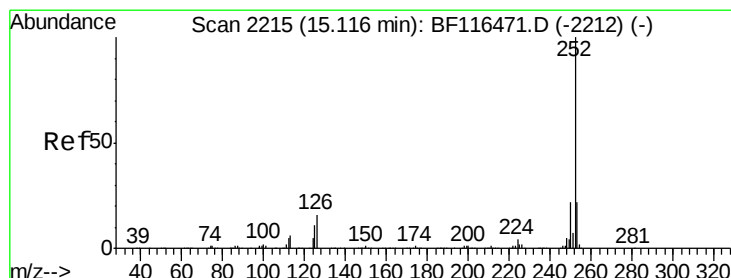
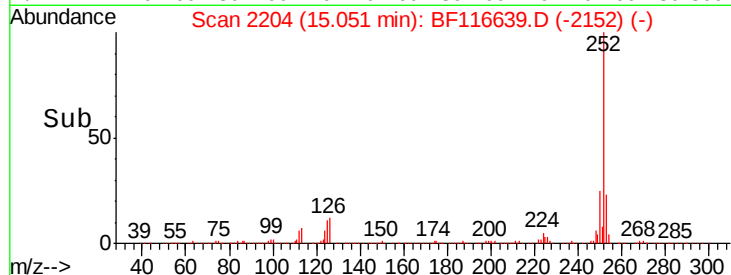
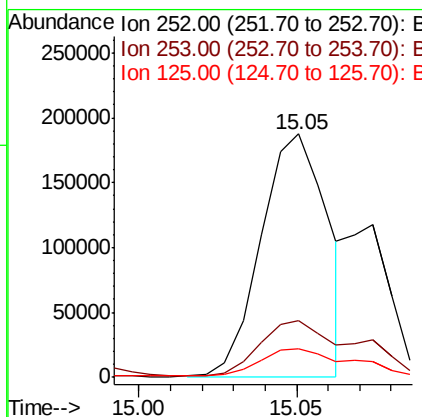
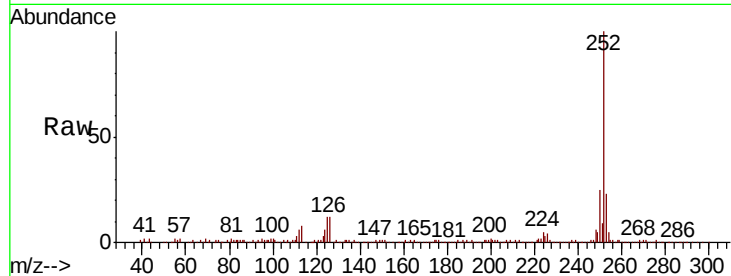
#88  
Benzo(b)fluoranthene  
Concen: 42.462 ng m  
RT: 15.05 min Scan# 2204  
Delta R.T. 0.01 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

Instrument :  
BNA\_F  
ClientSampled :  
TP-2-S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 17.3  | 25.9  |
| 125     | 11.9  | 9.0   | 13.6  |

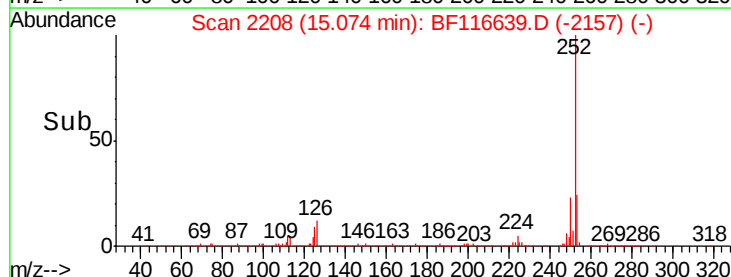
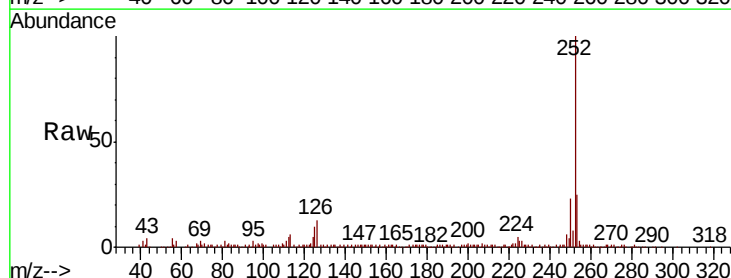
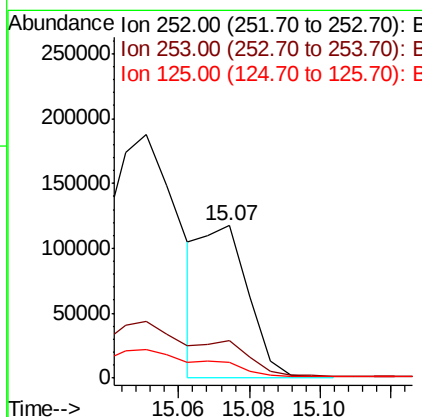
Manual Integrations  
APPROVED

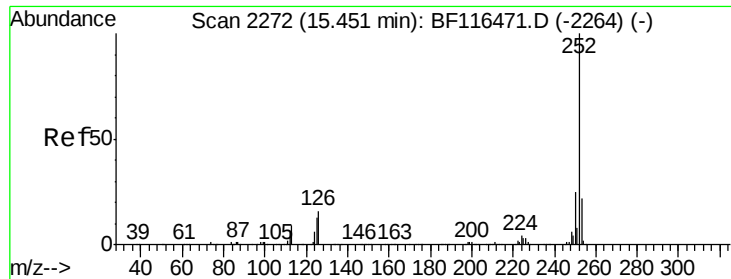
Jagrut  
8/29/2019 7:47:35 PM



#89  
Benzo(k)fluoranthene  
Concen: 17.564 ng m  
RT: 15.07 min Scan# 2208  
Delta R.T. -0.00 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 17.2  | 25.8  |
| 125     | 10.2  | 8.6   | 13.0  |





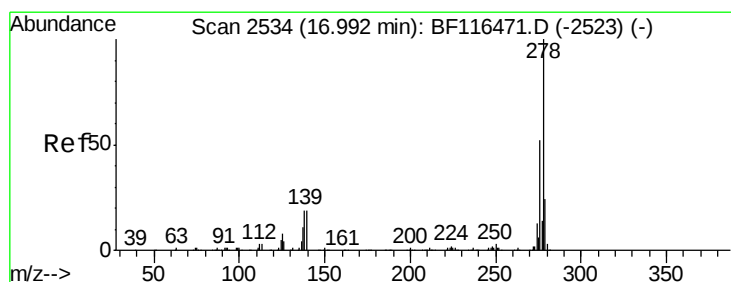
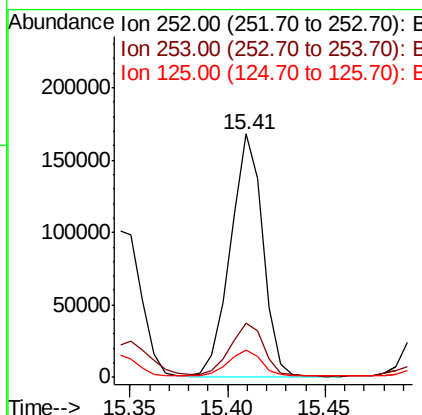
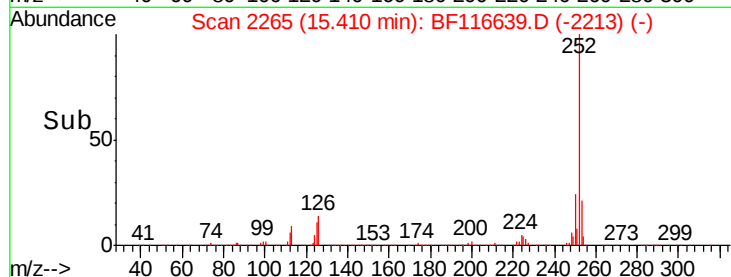
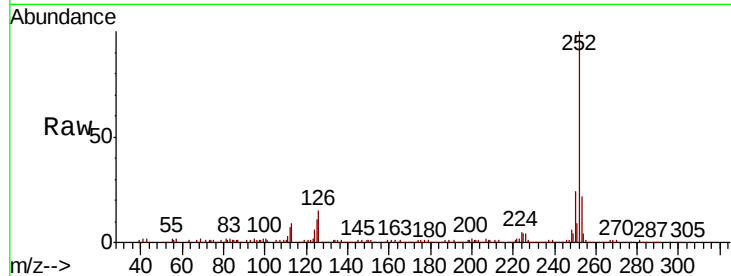
#90  
Benzo(a)pyrene  
Concen: 33.163 ng  
RT: 15.41 min Scan# 2265  
Delta R.T. 0.01 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

Instrument :  
BNA\_F  
ClientSampled :  
TP-2-S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.3  | 17.4  | 26.0  |
| 125     | 11.2  | 10.6  | 16.0  |

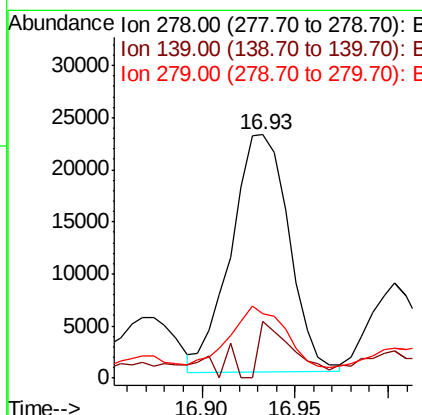
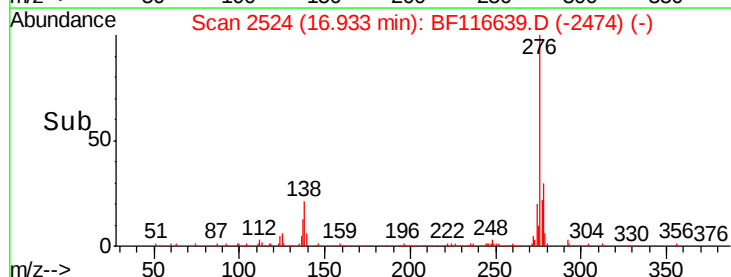
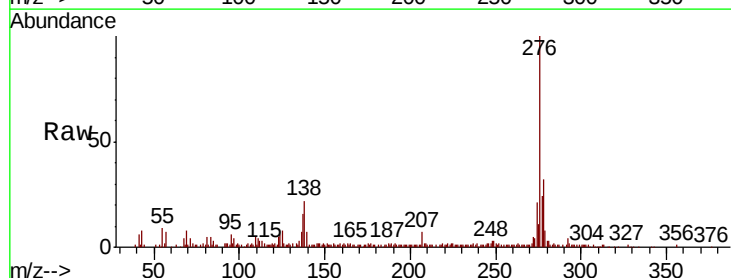
Manual Integrations  
APPROVED

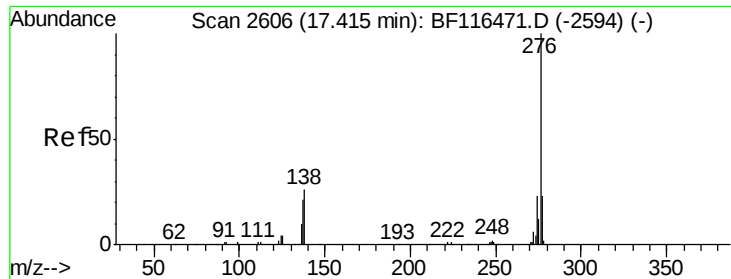
Jagrut  
8/29/2019 7:47:35 PM



#91  
Dibenzo(a,h)anthracene  
Concen: 9.059 ng m  
RT: 16.93 min Scan# 2524  
Delta R.T. -0.01 min  
Lab File: BF116639.D  
Acq: 29 Aug 2019 2:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 23.3  | 14.1  | 21.1# |
| 279     | 26.5  | 19.5  | 29.3  |





#92  
 Benzo(a,h,i)perylene  
 Concen: 30.237 ng  
 RT: 17.36 min Scan# 2597  
 Delta R.T. 0.00 min  
 Lab File: BF116639.D  
 Acq: 29 Aug 2019 2:24

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-2-S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.0  | 19.0  | 28.4  |
| 138     | 23.6  | 18.2  | 27.2  |

Manual Integrations  
 APPROVED

Jagrut  
 8/29/2019 7:47:35 PM

