

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102717\  
 Data File : BF099881.D  
 Acq On : 27 Oct 2017 17:00  
 Operator : SJ/JU  
 Sample : I6112-21 2X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 6-MARION26KV-(2-3)

Manual Integrations  
 APPROVED

Sohil  
 10/30/2017 6:16:33 PM

Quant Time: Oct 27 17:50:03 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 27 15:58:57 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.79  | 152  | 91893    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.07  | 136  | 378066   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.84  | 164  | 171616   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.33 | 188  | 288535   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.99 | 240  | 172279   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.46 | 264  | 185049   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.42  | 112  | 262029   | 44.77  | ng    | 0.00     |
| 7) Phenol-d6                | 6.43  | 99   | 328263   | 47.30  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 183871   | 31.31  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.63 | 330  | 71299    | 45.59  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.15  | 172  | 404191   | 36.34  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.92 | 244  | 283851   | 36.01  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 10) Phenol                  | 6.45  | 94   | 18684    | 2.452  | ng    | 87       |
| 31) Naphthalene             | 8.10  | 128  | 41317    | 2.264  | ng    | 99       |
| 37) 2-Methylnaphthalene     | 8.79  | 142  | 36353    | 2.972  | ng    | 98       |
| 49) Dimethylphthalate       | 9.55  | 163  | 119065   | 8.761  | ng    | 100      |
| 70) Phenanthrene            | 11.36 | 178  | 109876   | 6.748  | ng    | 98       |
| 74) Fluoranthene            | 12.55 | 202  | 144485   | 8.538  | ng    | 98       |
| 77) Pyrene                  | 12.78 | 202  | 130527   | 9.964  | ng    | 98       |
| 80) Benzo(a)anthracene      | 13.97 | 228  | 78390    | 7.178  | ng    | 98       |
| 82) Chrysene                | 14.01 | 228  | 78462    | 7.642  | ng    | 96       |
| 85) Indeno(1,2,3-cd)pyrene  | 16.95 | 276  | 63161    | 6.701  | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 15.03 | 252  | 130992m  | 11.210 | ng    |          |
| 88) Benzo(k)fluoranthene    | 15.06 | 252  | 33798m   | 3.067  | ng    |          |
| 89) Benzo(a)pyrene          | 15.40 | 252  | 87771    | 8.362  | ng    | # 93     |
| 91) Benzo(a,h,i)perylene    | 17.40 | 276  | 66760    | 7.316  | ng    | # 90     |

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

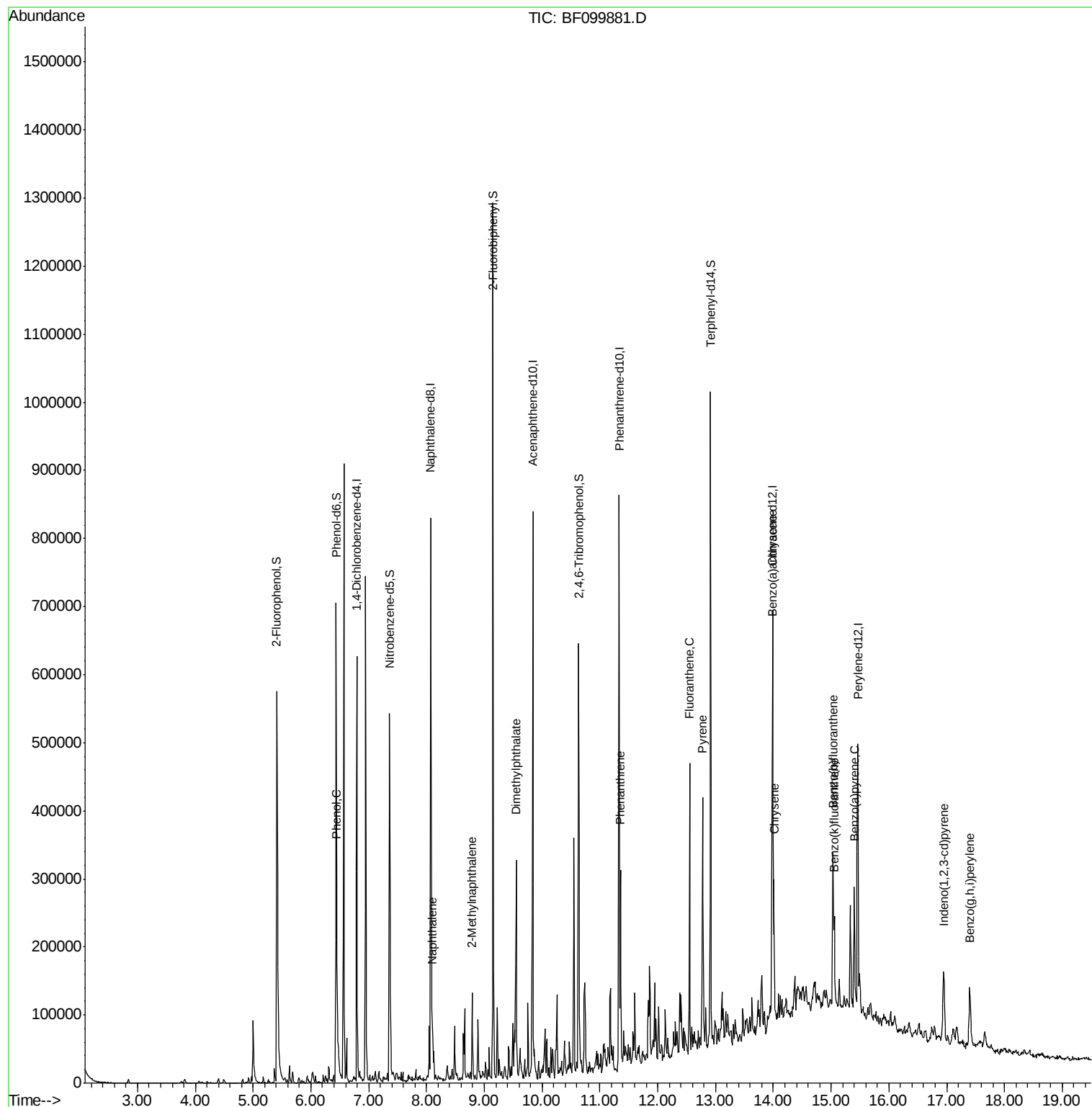
Data Path : Z:\HPCHEM1\BNA F\DATA\BF102717\  
Data File : BF099881.D  
Acq On : 27 Oct 2017 17:00  
Operator : SJ/JU  
Sample : I6112-21 2X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
6-MARION26KV-(2-3)

Manual Integrations  
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Quant Time: Oct 27 17:50:03 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 27 15:58:57 2017  
Response via : Initial Calibration





#1

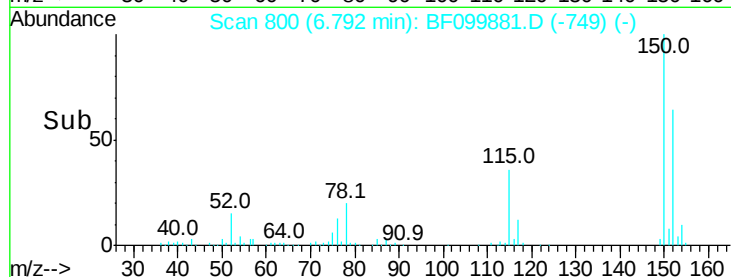
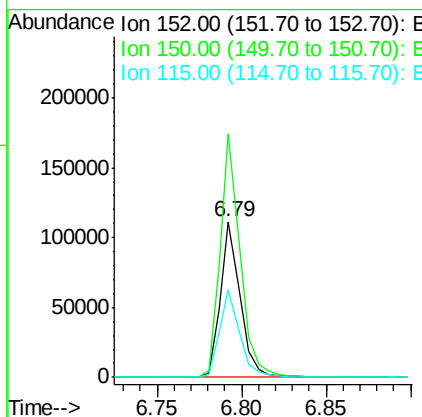
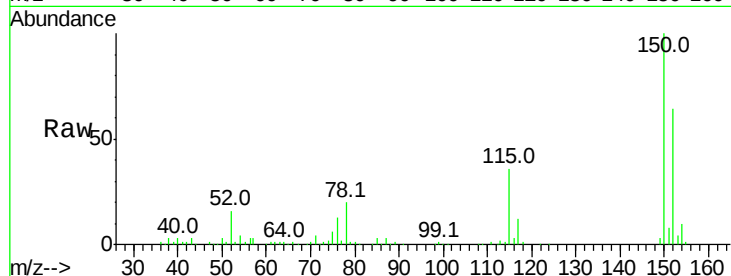
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.79 min Scan# 800  
Delta R.T. -0.00 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

Instrument :  
BNA\_F  
ClientSampleId :  
6-MARION26KV-(2-3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.2 | 124.6 | 186.8 |
| 115     | 56.3  | 50.1  | 75.1  |

Manual Integrations  
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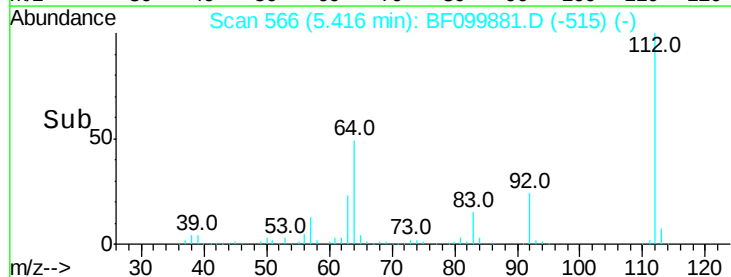
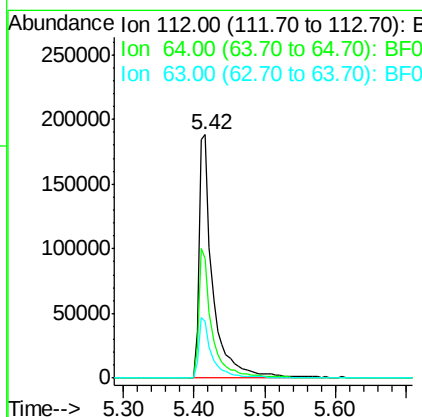
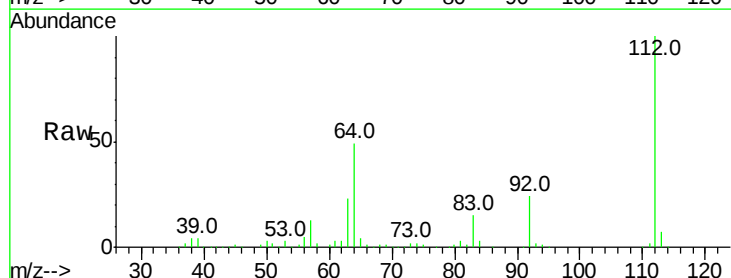
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#5

2-Fluorophenol  
Concen: 44.767 ng  
RT: 5.42 min Scan# 566  
Delta R.T. -0.00 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 49.0  | 47.9  | 71.9  |
| 63      | 23.2  | 23.7  | 35.5# |





#7

Phenol-d6

Concen: 47.299 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF099881.D

Acq: 27 Oct 2017 17:00

Instrument :

BNA\_F

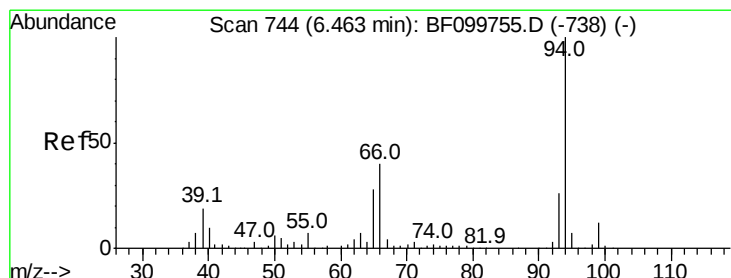
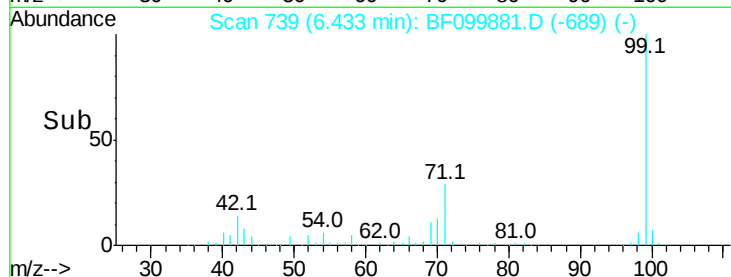
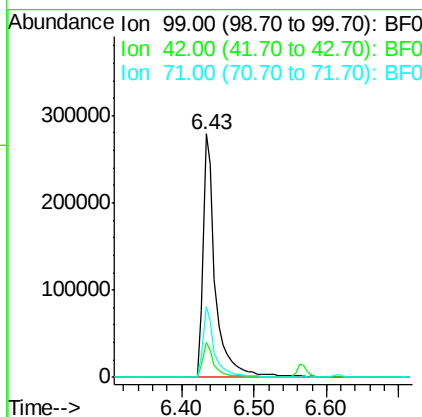
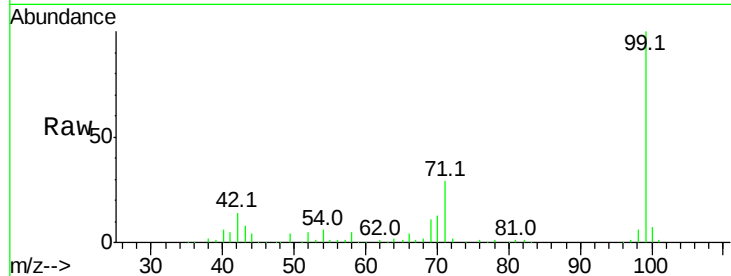
ClientSampleId :

6-MARION26KV-(2-3)

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 328263 |       |       |
| 42      | 14.3 | 14.5  | 21.7#  |       |       |
| 71      | 29.2 | 25.4  | 38.0   |       |       |

Manual Integrations  
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#10

Phenol

Concen: 2.452 ng

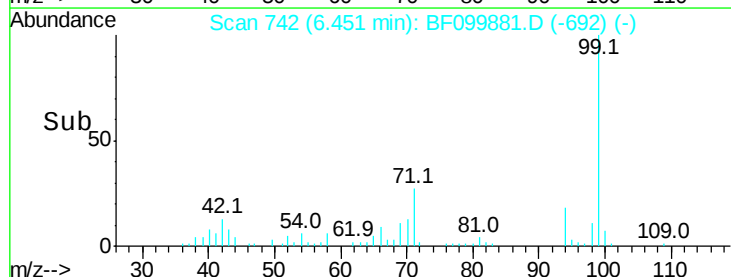
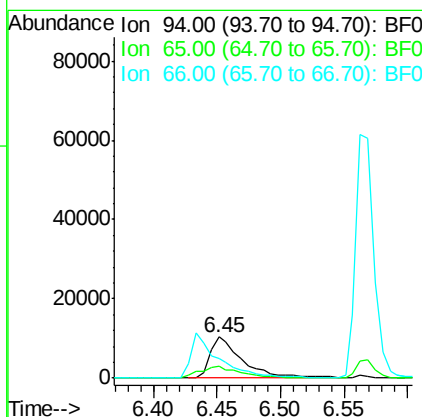
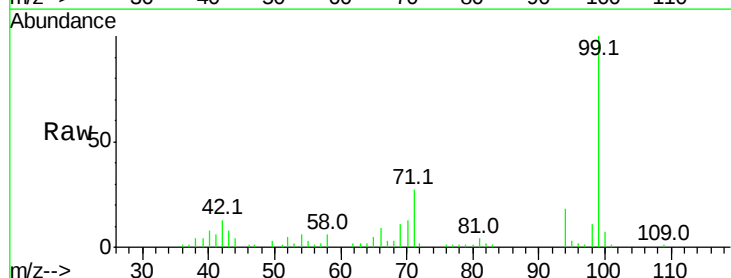
RT: 6.45 min Scan# 742

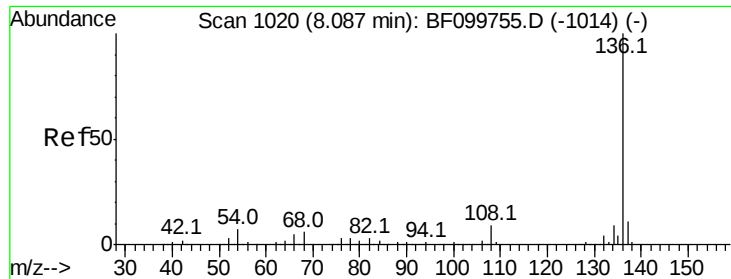
Delta R.T. -0.01 min

Lab File: BF099881.D

Acq: 27 Oct 2017 17:00

| Tgt Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 94      | 100  |       | 18684 |       |       |
| 65      | 29.2 | 7.9   | 47.9  |       |       |
| 66      | 49.0 | 16.2  | 56.2  |       |       |





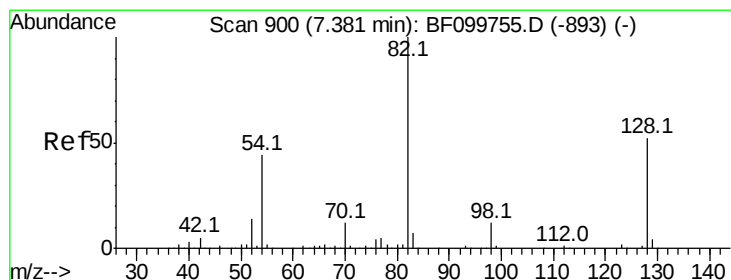
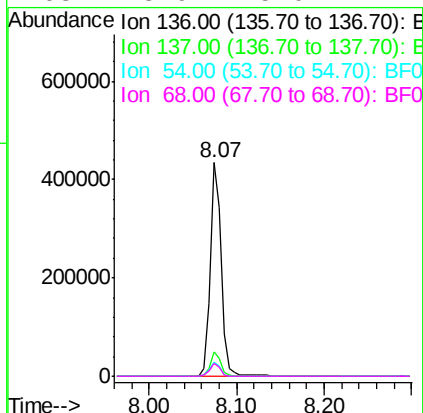
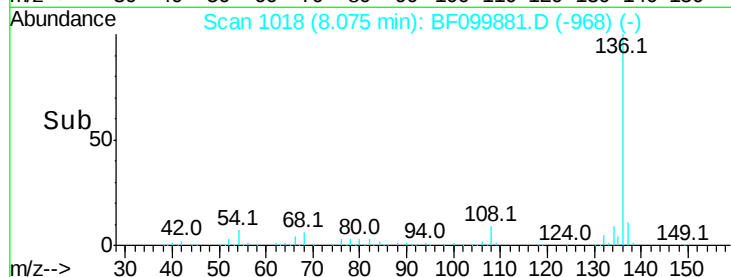
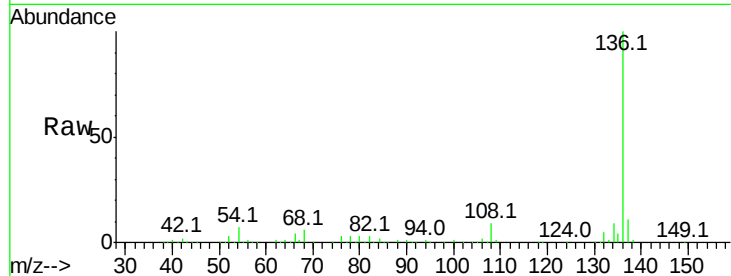
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.07 min Scan# 1018  
Delta R.T. -0.01 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

Instrument :  
BNA\_F  
ClientSampleId :  
6-MARION26KV-(2-3)

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 11.2  | 8.9  | 13.3  |       |
| 54      | 6.7   | 6.6  | 9.8   |       |
| 68      | 5.9   | 5.0  | 7.4   |       |

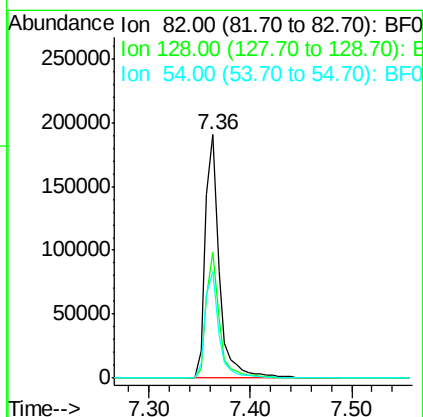
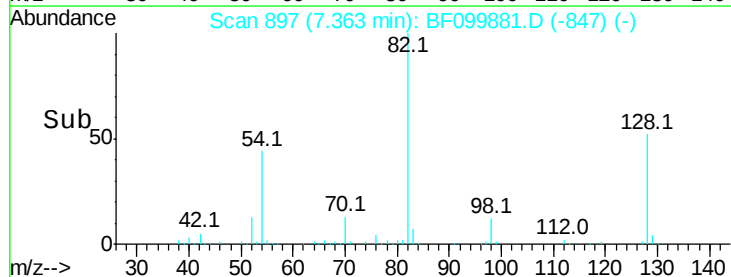
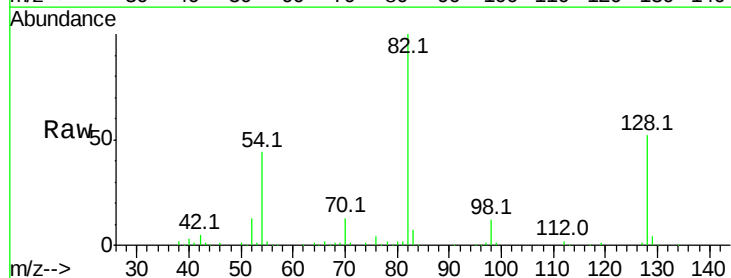
Manual Integrations  
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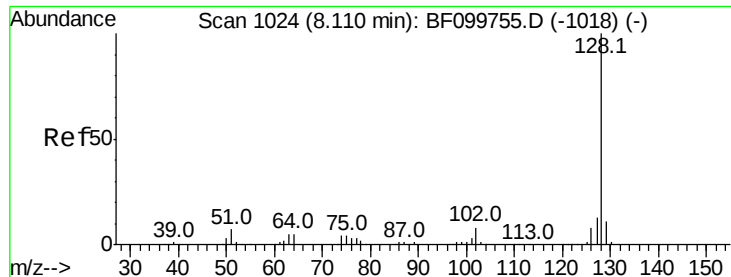
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#23  
Nitrobenzene-d5  
Concen: 31.311 ng  
RT: 7.36 min Scan# 897  
Delta R.T. -0.01 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 51.8  | 36.1 | 54.1  |       |
| 54      | 43.8  | 41.4 | 62.2  |       |





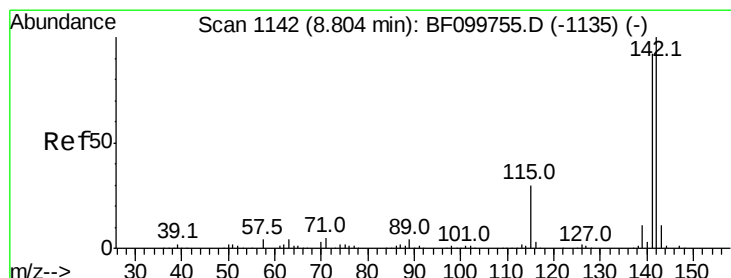
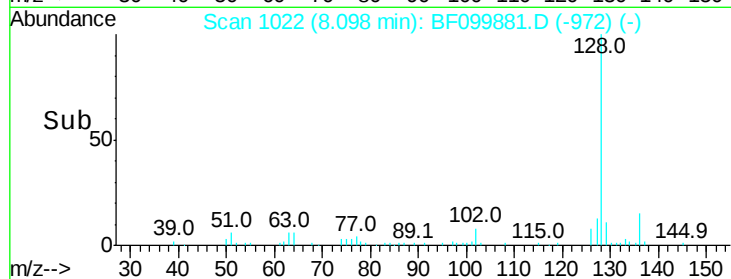
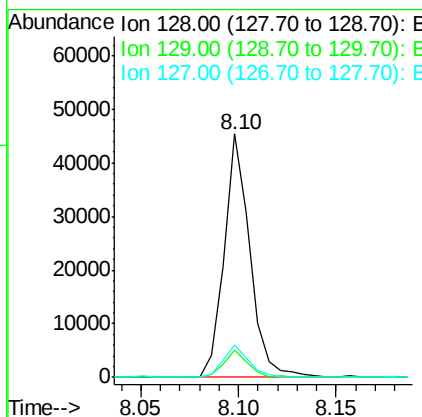
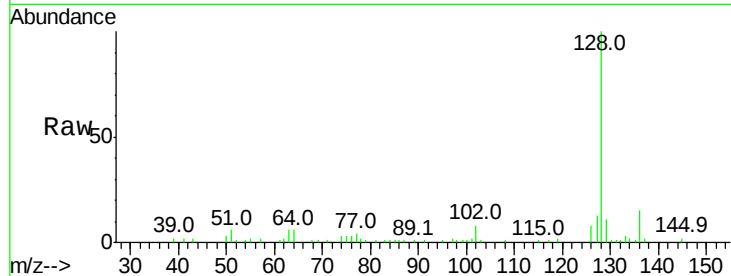
#31  
Naphthalene  
Concen: 2.264 ng  
RT: 8.10 min Scan# 1022  
Delta R.T. -0.01 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

Instrument :  
BNA\_F  
ClientSampleId :  
6-MARION26KV-(2-3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.3  | 8.8   | 13.2  |
| 127     | 13.1  | 10.9  | 16.3  |

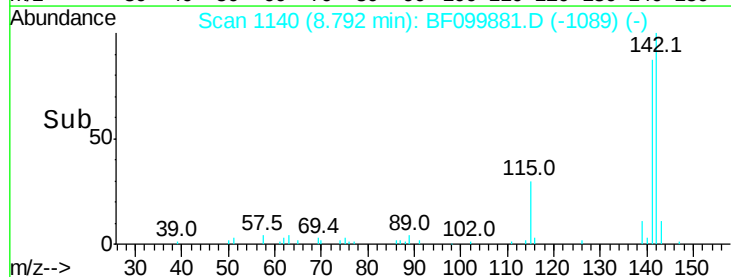
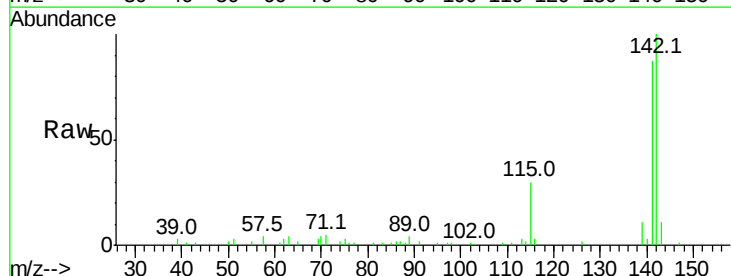
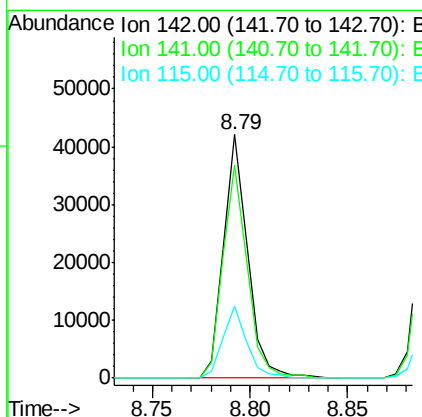
Manual Integrations  
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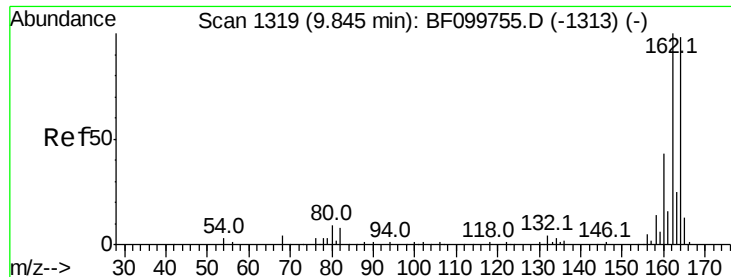
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#37  
2-Methylnaphthalene  
Concen: 2.972 ng  
RT: 8.79 min Scan# 1140  
Delta R.T. -0.00 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 87.2  | 70.8  | 106.2 |
| 115     | 29.7  | 26.1  | 39.1  |





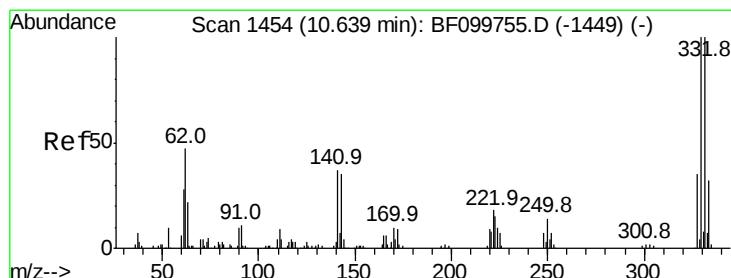
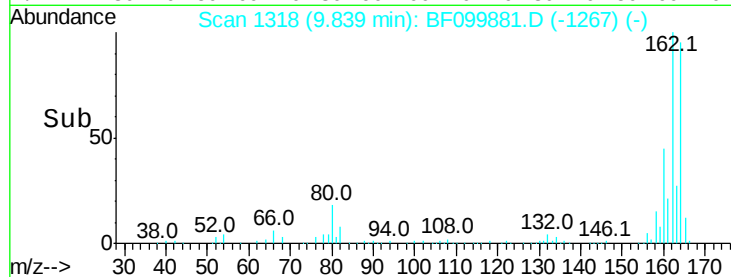
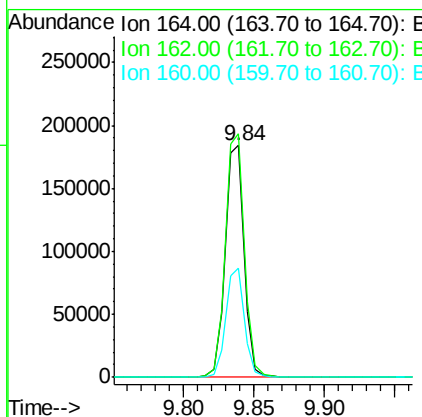
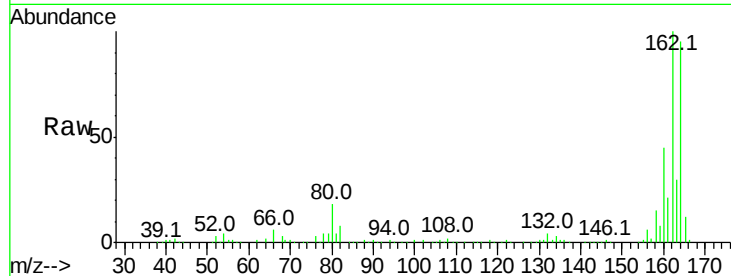
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.84 min Scan# 1318  
Delta R.T. -0.00 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

Instrument :  
BNA\_F  
ClientSampleId :  
6-MARION26KV-(2-3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 105.0 | 86.1  | 129.1 |
| 160     | 47.0  | 38.3  | 57.5  |

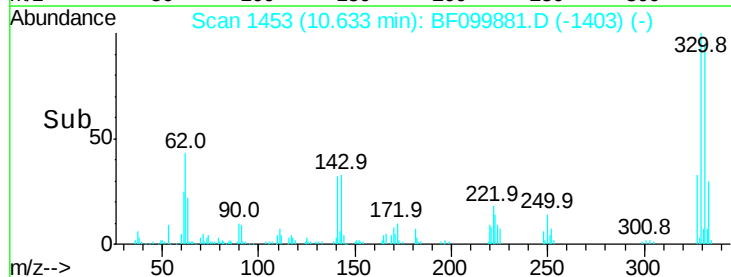
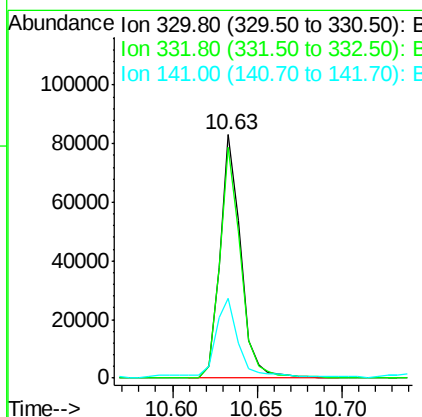
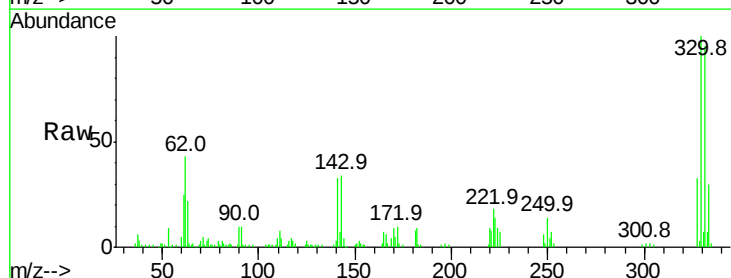
Manual Integrations  
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#41  
2,4,6-Tribromophenol  
Concen: 45.589 ng  
RT: 10.63 min Scan# 1453  
Delta R.T. -0.01 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.4  | 77.0  | 115.6 |
| 141     | 38.8  | 29.9  | 44.9  |





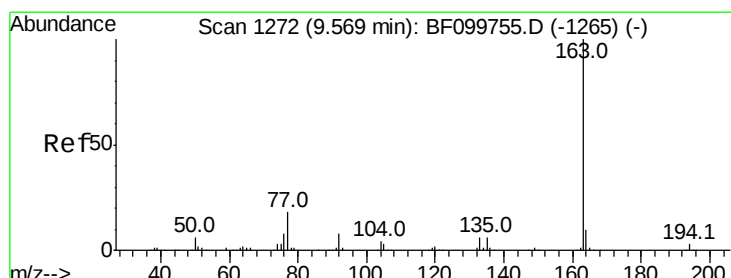
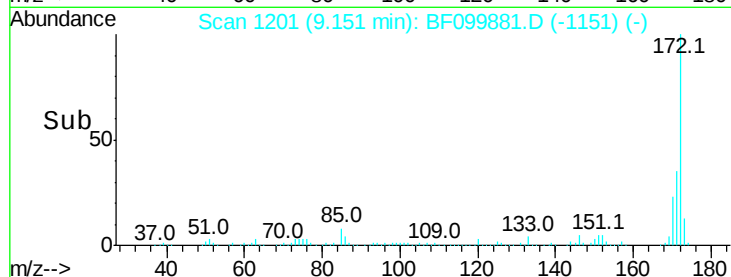
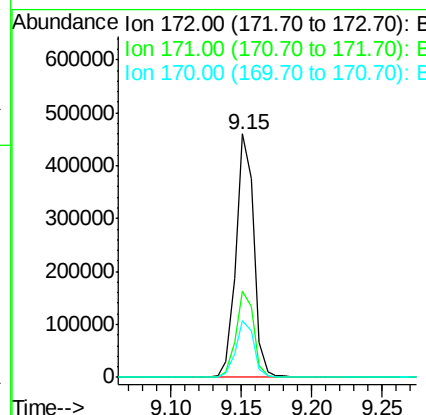
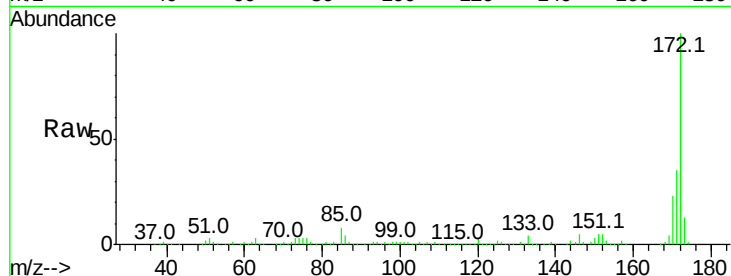
#44  
2-Fluorobiphenyl  
Concen: 36.337 ng  
RT: 9.15 min Scan# 1201  
Delta R.T. -0.01 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

Instrument :  
BNA\_F  
ClientSampleId :  
6-MARION26KV-(2-3)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 404191 |       |       |
| 171     | 35.4  |        | 29.7  | 44.5  |
| 170     | 23.4  |        | 19.6  | 29.4  |

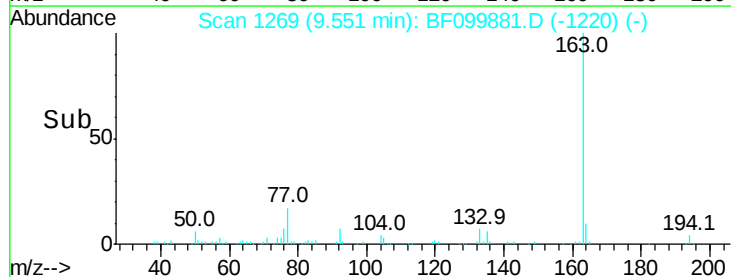
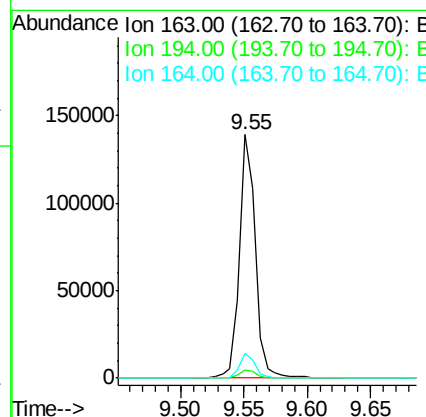
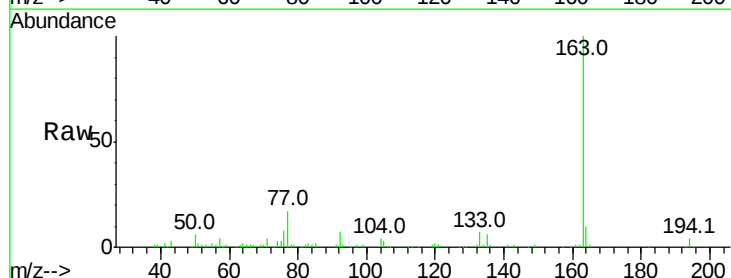
Manual Integrations  
APPROVED

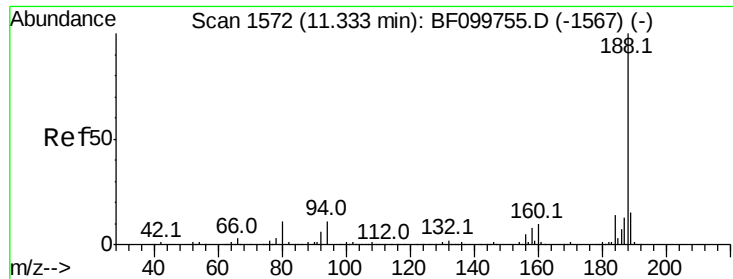
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#49  
Dimethylphthalate  
Concen: 8.761 ng  
RT: 9.55 min Scan# 1269  
Delta R.T. -0.01 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 119065 |       |       |
| 194     | 3.6   |        | 2.7   | 4.1   |
| 164     | 10.4  |        | 8.2   | 12.2  |





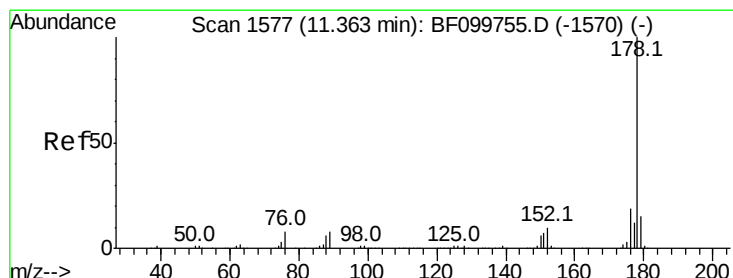
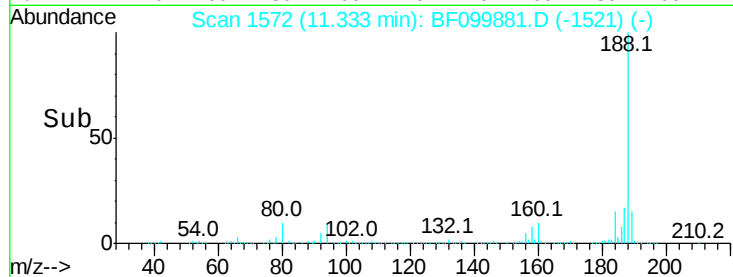
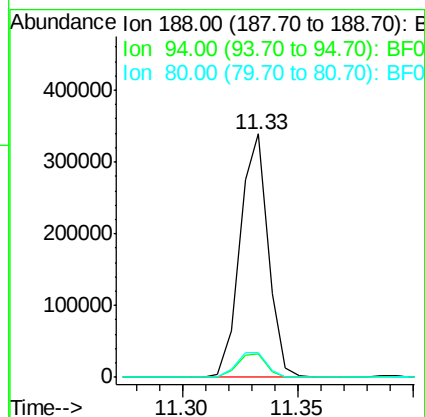
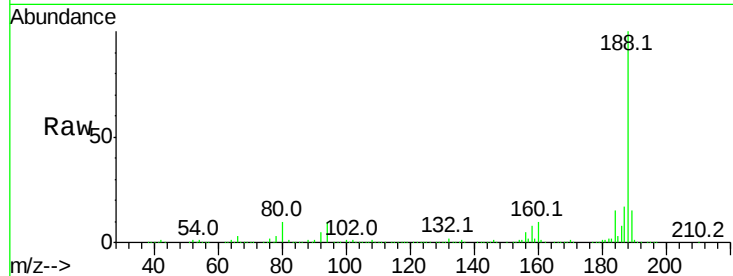
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.33 min Scan# 1572  
Delta R.T. -0.00 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

Instrument :  
BNA\_F  
ClientSampleId :  
6-MARION26KV-(2-3)

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 9.6   | 8.5        | 12.7       |
| 80      | 10.0  | 9.2        | 13.8       |

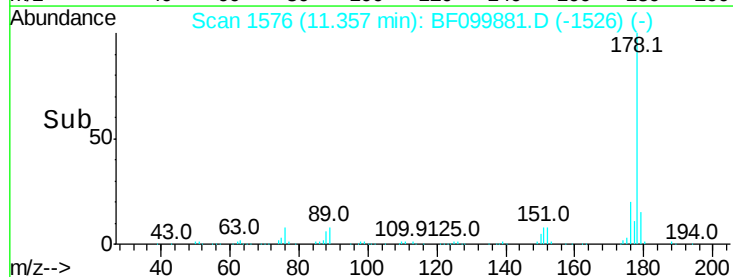
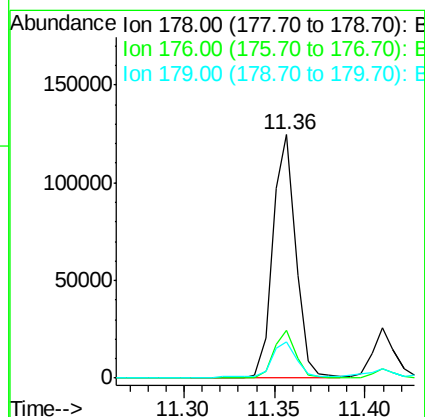
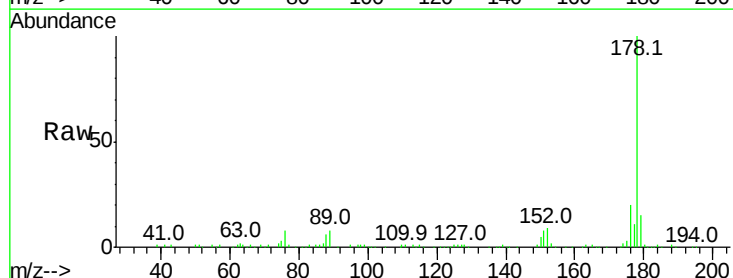
Manual Integrations  
APPROVED

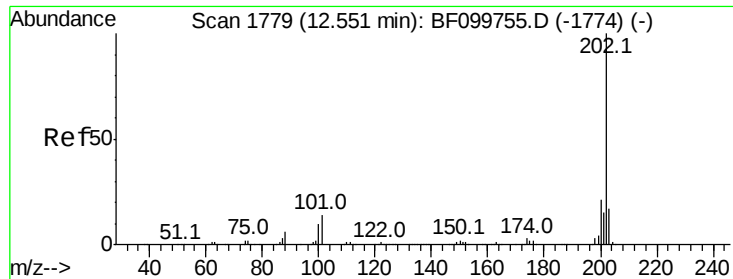
Sohil  
10/30/2017 6:16:33 PM



#70  
Phenanthrene  
Concen: 6.748 ng  
RT: 11.36 min Scan# 1576  
Delta R.T. -0.01 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 178     | 100   |            |            |
| 176     | 19.6  | 15.8       | 23.8       |
| 179     | 15.1  | 13.0       | 19.6       |





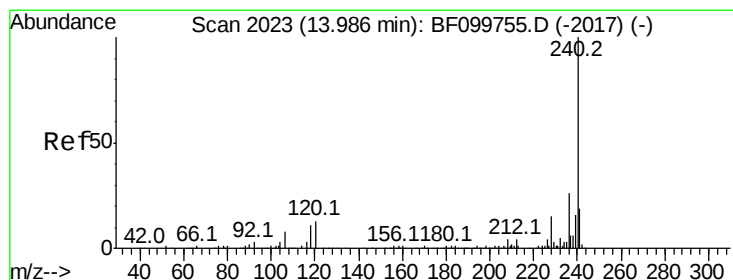
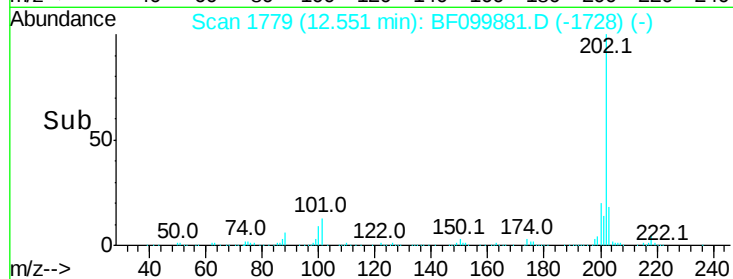
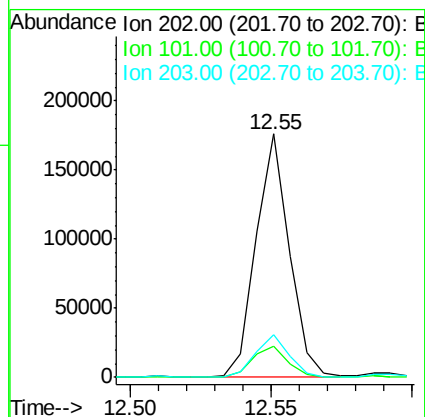
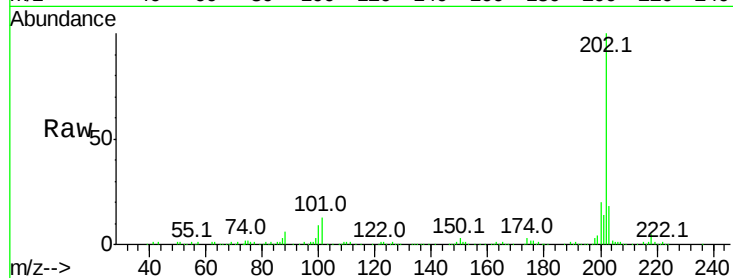
#74  
 Fluoranthene  
 Concen: 8.538 ng  
 RT: 12.55 min Scan# 1779  
 Delta R.T. -0.00 min  
 Lab File: BF099881.D  
 Acq: 27 Oct 2017 17:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 6-MARION26KV-(2-3)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 144485 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 12.6  | 0.0   | 34.1   |
| 203       | 17.7  | 0.0   | 38.1   |

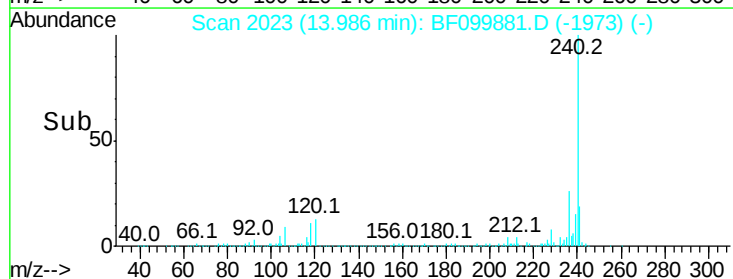
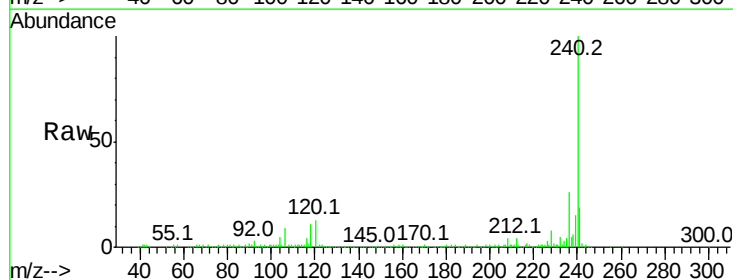
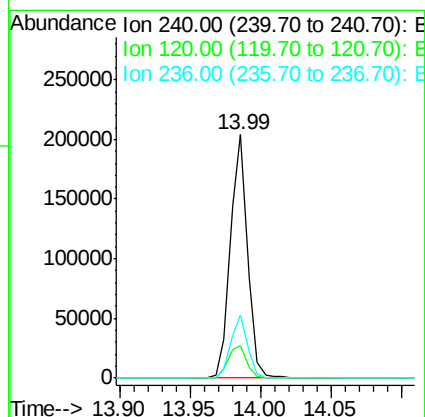
Manual Integrations  
 APPROVED

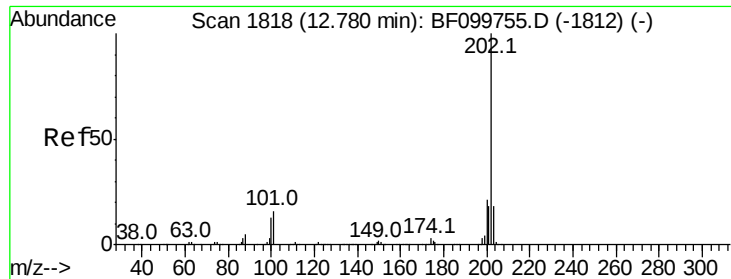
Sohil  
 10/30/2017 6:16:33 PM



#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.99 min Scan# 2023  
 Delta R.T. -0.01 min  
 Lab File: BF099881.D  
 Acq: 27 Oct 2017 17:00

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 172279 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 13.1  | 9.5   | 14.3   |
| 236       | 25.7  | 20.7  | 31.1   |





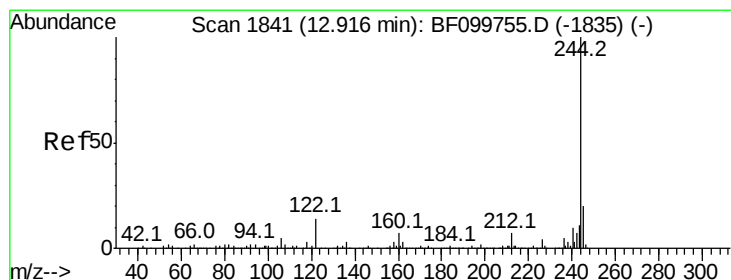
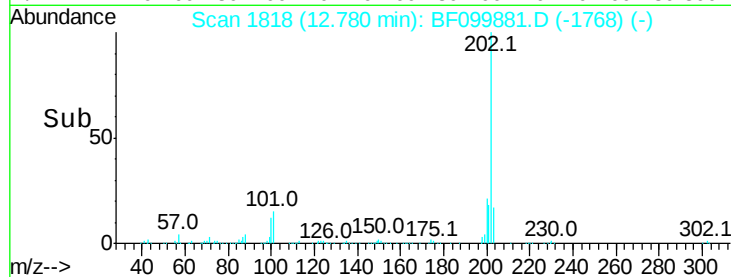
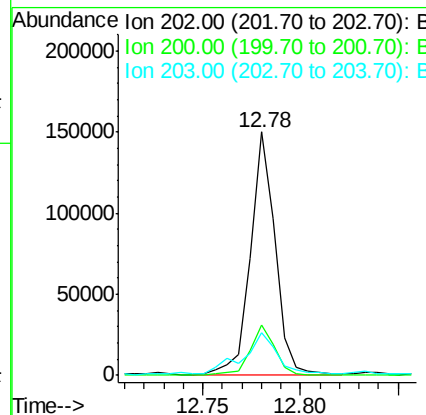
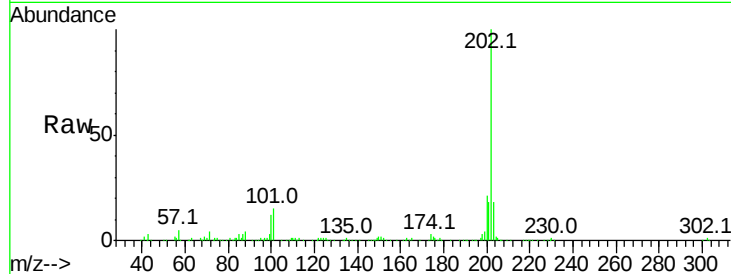
#77  
Pvrene  
Concen: 9.964 ng  
RT: 12.78 min Scan# 1818  
Delta R.T. -0.01 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

Instrument :  
BNA\_F  
ClientSampleId :  
6-MARION26KV-(2-3)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 20.7  | 17.4       | 26.2  |
| 203     | 17.6  | 14.3       | 21.5  |

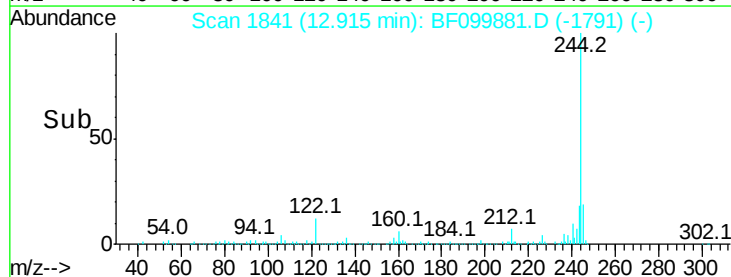
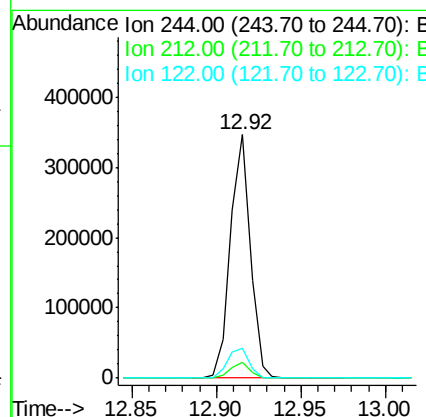
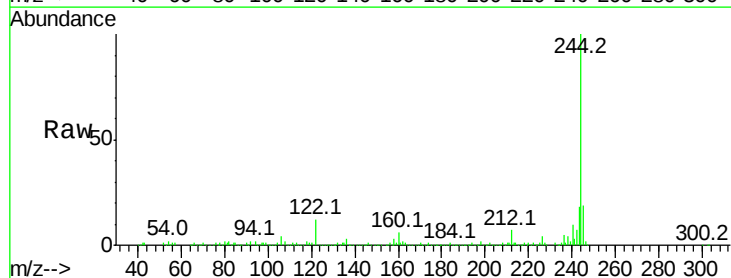
Manual Integrations  
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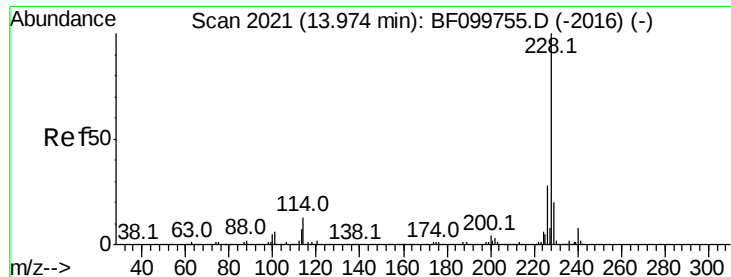
Sohil  
10/30/2017 6:16:33 PM



#78  
Terphenyl-d14  
Concen: 36.007 ng  
RT: 12.92 min Scan# 1841  
Delta R.T. -0.01 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 6.7   | 5.4        | 8.0   |
| 122     | 12.4  | 11.0       | 16.4  |





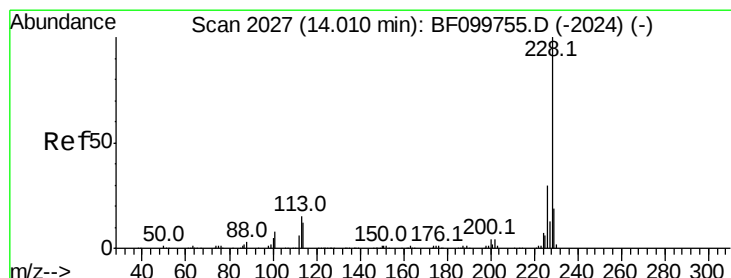
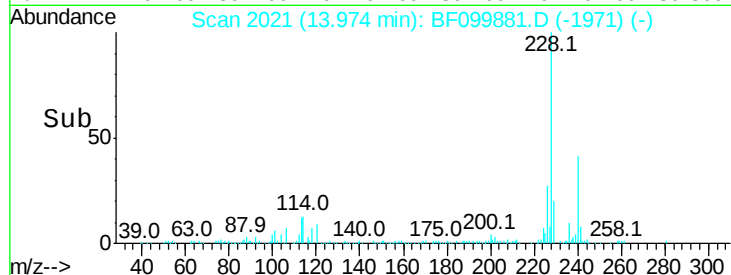
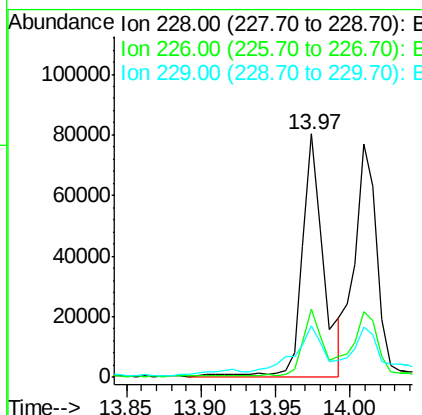
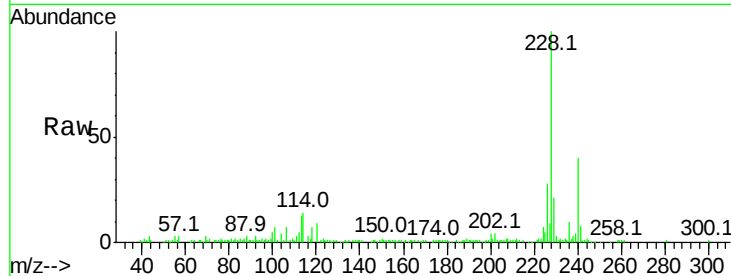
#80  
Benzo(a)anthracene  
Concen: 7.178 ng  
RT: 13.97 min Scan# 2021  
Delta R.T. -0.01 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

Instrument :  
BNA\_F  
ClientSampleId :  
6-MARION26KV-(2-3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.8  | 22.6  | 33.8  |
| 229     | 21.3  | 15.8  | 23.6  |

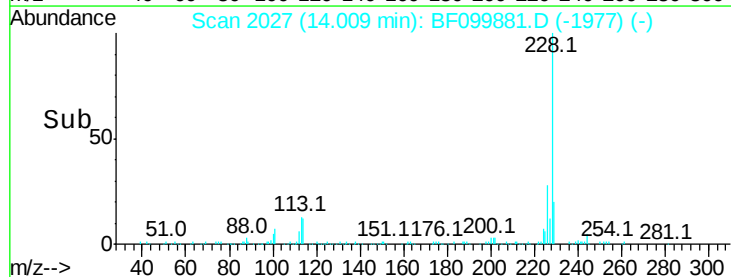
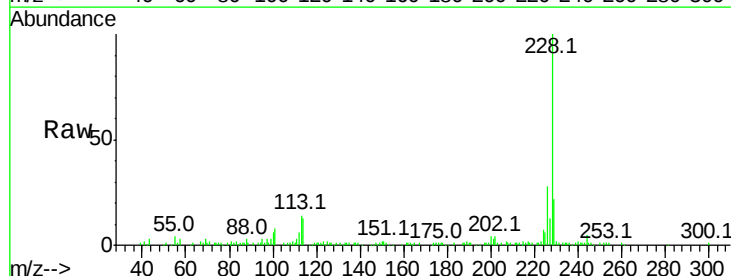
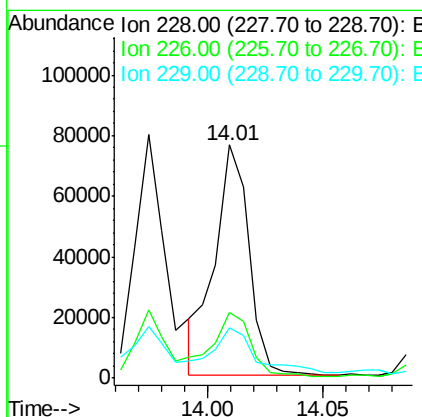
Manual Integrations  
APPROVED

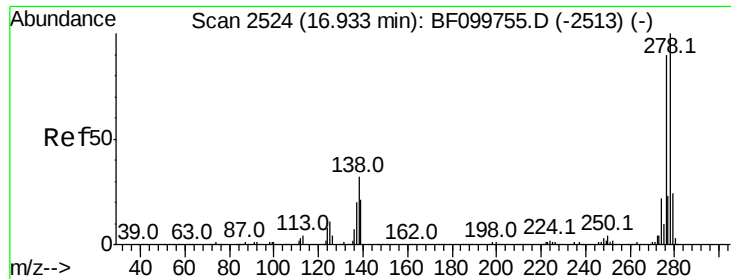
Sohil  
10/30/2017 6:16:33 PM



#82  
Chrysene  
Concen: 7.642 ng  
RT: 14.01 min Scan# 2027  
Delta R.T. -0.01 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.3  | 25.0  | 37.6  |
| 229     | 21.7  | 16.2  | 24.4  |





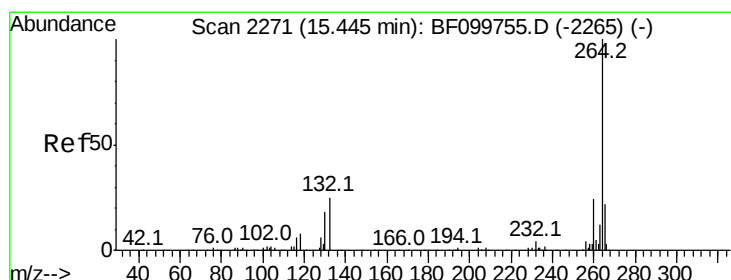
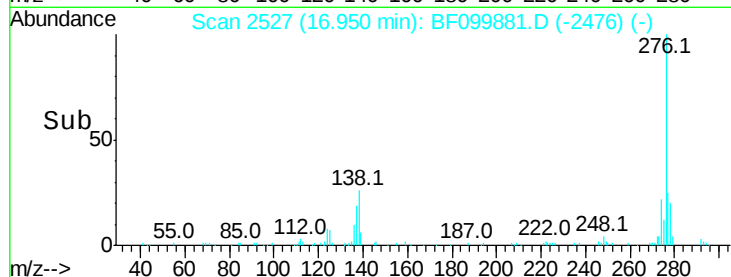
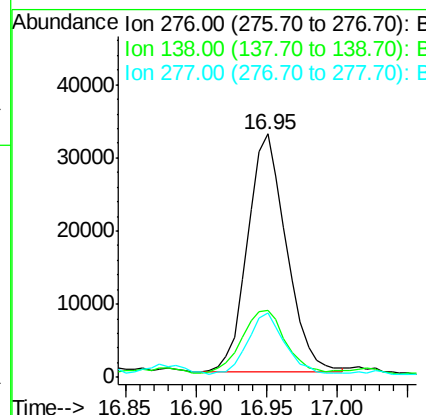
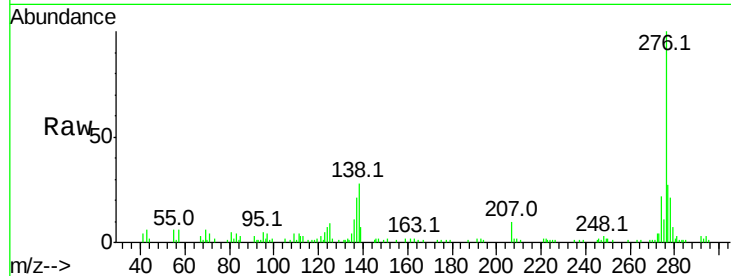
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 6.701 ng  
RT: 16.95 min Scan# 2527  
Delta R.T. -0.00 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

Instrument :  
BNA\_F  
ClientSampleId :  
6-MARION26KV-(2-3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 29.2  | 25.0  | 37.6  |
| 277     | 25.0  | 20.1  | 30.1  |

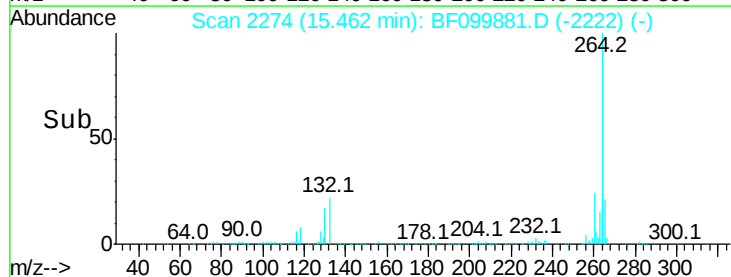
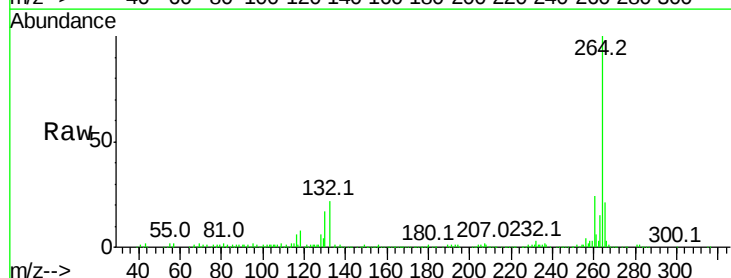
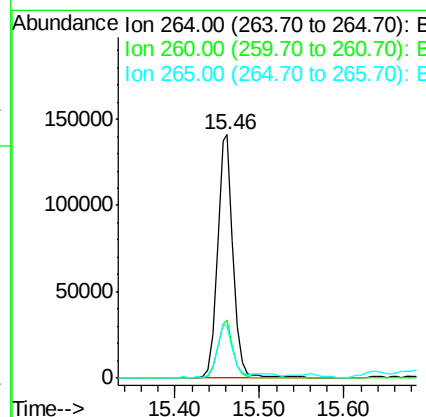
Manual Integrations  
APPROVED

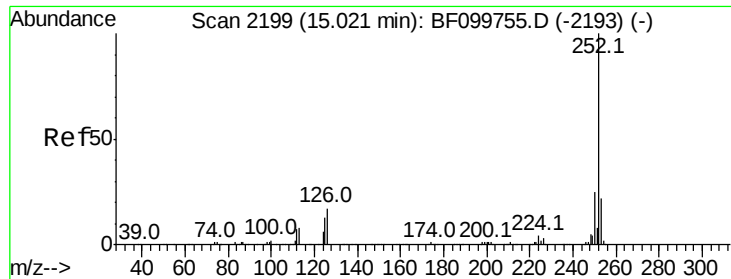
Sohil  
10/30/2017 6:16:33 PM



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.46 min Scan# 2274  
Delta R.T. 0.01 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 19.2  | 28.8  |
| 265     | 21.0  | 17.5  | 26.3  |





#87

Benzo(b)fluoranthene

Concen: 11.210 ng m

RT: 15.03 min Scan# 2201

Delta R.T. -0.00 min

Lab File: BF099881.D

Acq: 27 Oct 2017 17:00

Instrument :

BNA\_F

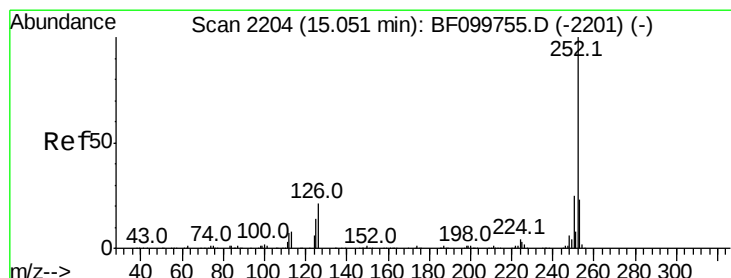
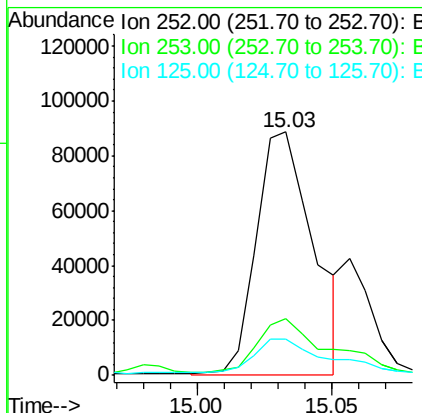
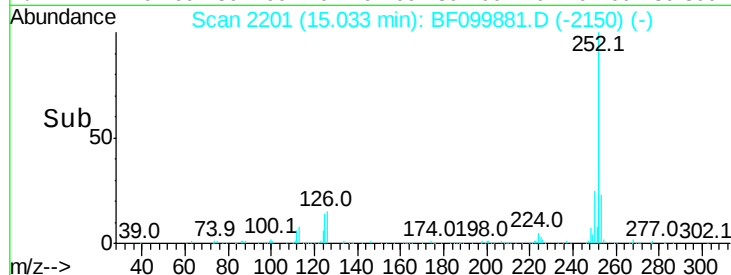
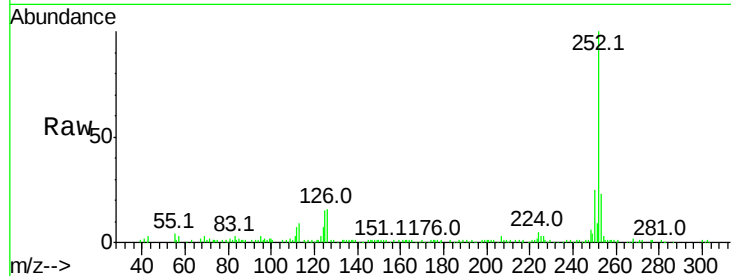
ClientSampleId :

6-MARION26KV-(2-3)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 130992 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.2  | 17.0  | 25.6   |
| 125       | 14.7  | 9.0   | 13.6   |

Manual Integrations  
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#88

Benzo(k)fluoranthene

Concen: 3.067 ng m

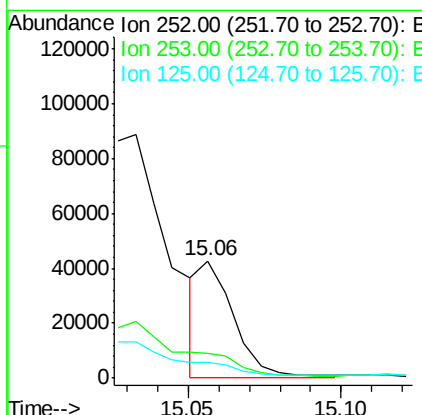
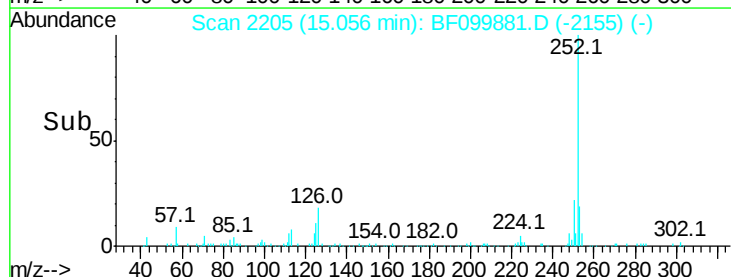
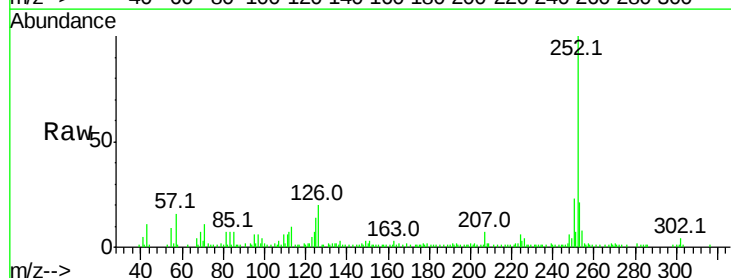
RT: 15.06 min Scan# 2205

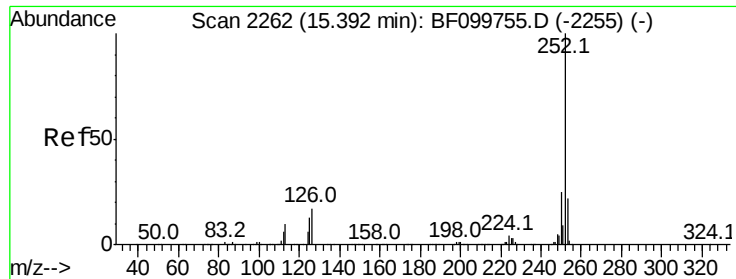
Delta R.T. -0.01 min

Lab File: BF099881.D

Acq: 27 Oct 2017 17:00

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 33798 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 21.4  | 17.9  | 26.9  |
| 125       | 13.9  | 10.2  | 15.2  |





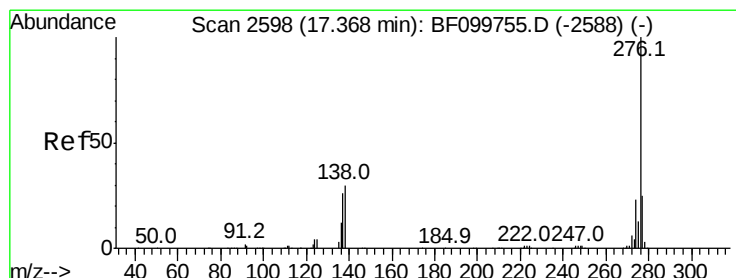
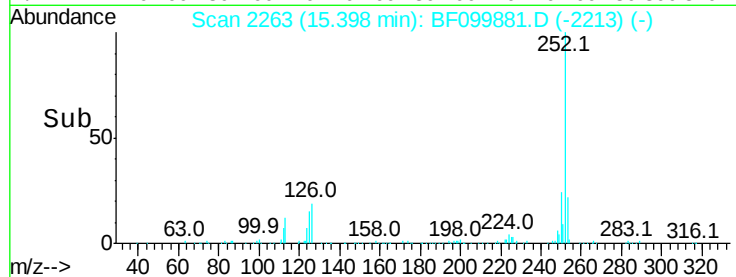
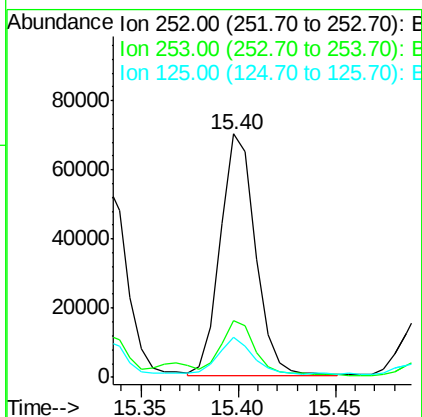
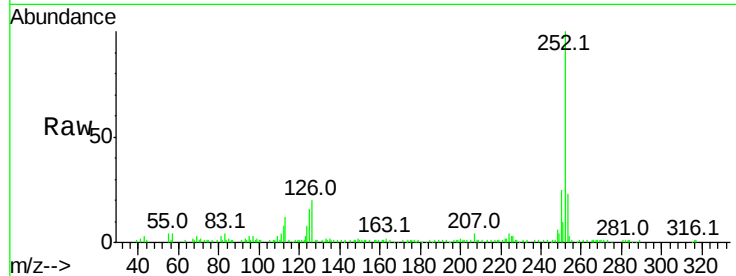
#89  
Benzo(a)pyrene  
Concen: 8.362 ng  
RT: 15.40 min Scan# 2263  
Delta R.T. -0.01 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

Instrument :  
BNA\_F  
ClientSampleId :  
6-MARION26KV-(2-3)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.1  | 25.7  |
| 125     | 16.3  | 9.8   | 14.6  |

Manual Integrations  
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10/30/2017 6:16:33 PM



#91  
Benzo(g,h,i)perylene  
Concen: 7.316 ng  
RT: 17.40 min Scan# 2603  
Delta R.T. -0.00 min  
Lab File: BF099881.D  
Acq: 27 Oct 2017 17:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 27.5  | 17.9  | 26.9  |
| 138     | 32.2  | 21.8  | 32.8  |

