

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032520\  
 Data File : BF119525.D  
 Acq On : 26 Mar 2020 3:47  
 Operator : CG/JU  
 Sample : L2013-09 10X  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GHD1-SB-0203-0-11

Manual Integrations  
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Quant Time: Mar 26 07:32:18 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 18 15:11:18 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.84  | 152  | 265058   | 20.00   | ng    | -0.02    |
| 21) Naphthalene-d8             | 8.13  | 136  | 998832   | 20.00   | ng    | -0.02    |
| 39) Acenaphthene-d10           | 9.89  | 164  | 498463   | 20.00   | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.37 | 188  | 901314   | 20.00   | ng    | -0.02    |
| 76) Chrysene-d12               | 14.02 | 240  | 320797   | 20.00   | ng    | -0.02    |
| 87) Perylene-d12               | 15.48 | 264  | 564479   | 20.00   | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |         |       |          |
| 5) 2-Fluorophenol              | 5.44  | 112  | 171221   | 10.28   | ng    | -0.02    |
| 7) Phenol-d6                   | 6.45  | 99   | 220170   | 10.35   | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 131197   | 7.14    | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.67 | 330  | 56653    | 11.02   | ng    | -0.02    |
| 45) 2-Fluorobiphenyl           | 9.20  | 172  | 221295   | 6.58    | ng    | -0.02    |
| 79) Terphenyl-d14              | 12.96 | 244  | 186684   | 11.40   | ng    | -0.02    |
| Target Compounds               |       |      |          |         |       |          |
| 71) Phenanthrene               | 11.39 | 178  | 155642   | 3.330   | ng    | 99       |
| 75) Fluoranthene               | 12.59 | 202  | 310069   | 6.130   | ng    | 96       |
| 78) Pyrene                     | 12.82 | 202  | 254043   | 9.649   | ng    | 98       |
| 81) Benzo(a)anthracene         | 14.00 | 228  | 83138    | 3.985   | ng    | 94       |
| 83) Chrysene                   | 14.04 | 228  | 87012    | 4.042   | ng    | 98       |
| 84) Bis(2-ethylhexyl)phthalate | 14.02 | 149  | 7997587  | 630.046 | ng    | # 91     |
| 85) Di-n-octyl phthalate       | 14.62 | 149  | 441826   | 19.791  | ng    | # 99     |
| 86) Indeno(1,2,3-cd)pyrene     | 16.93 | 276  | 53584    | 2.643   | ng    | 96       |
| 88) Benzo(b)fluoranthene       | 15.05 | 252  | 128671m  | 3.412   | ng    |          |
| 90) Benzo(a)pyrene             | 15.42 | 252  | 90441    | 2.639   | ng    | 99       |

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

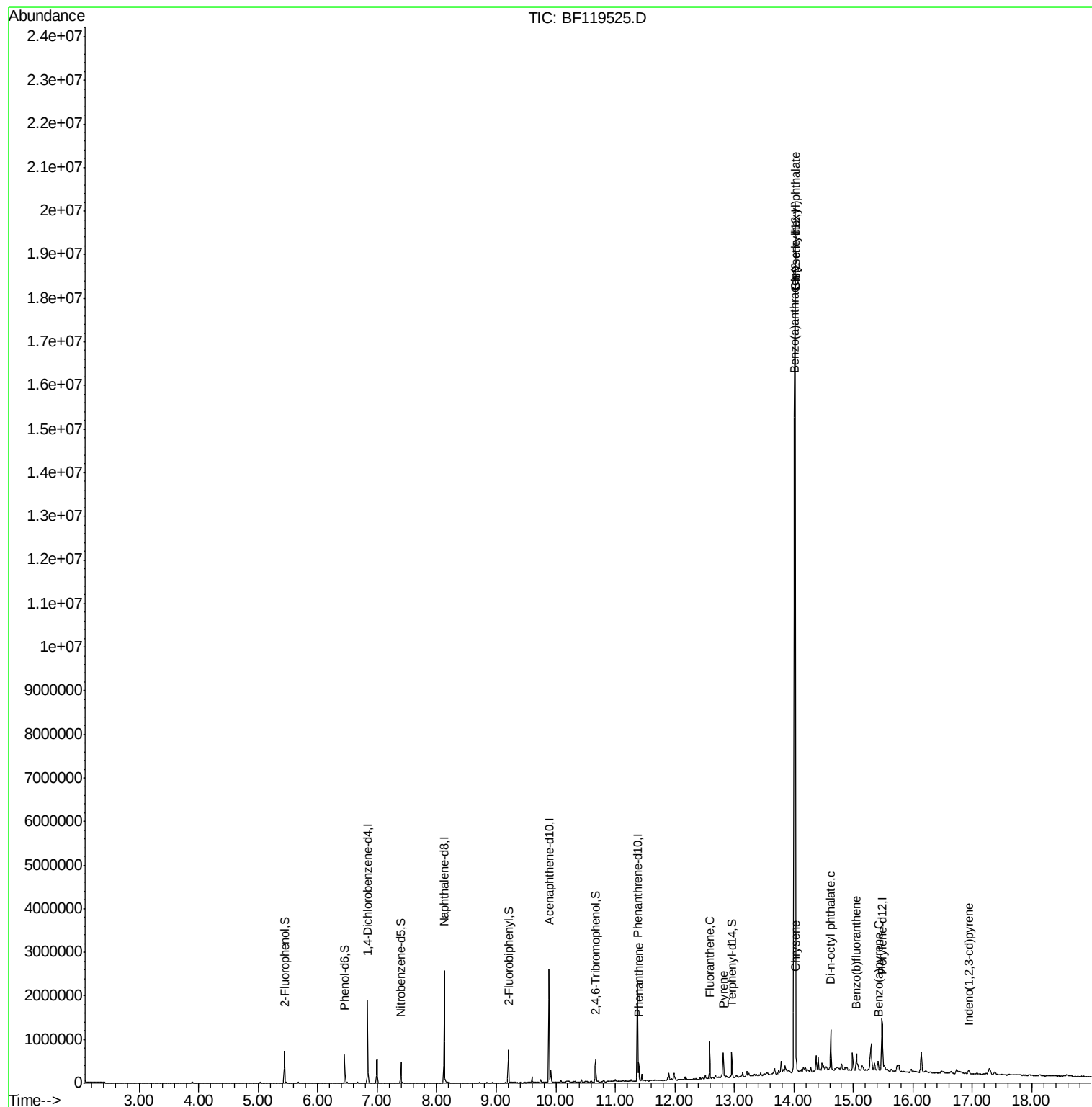
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF032520\  
Data File : BF119525.D  
Acq On : 26 Mar 2020 3:47  
Operator : CG/JU  
Sample : L2013-09 10X  
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ALS Vial : 28 Sample Multiplier: 1

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Quant Time: Mar 26 07:32:18 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 18 15:11:18 2020  
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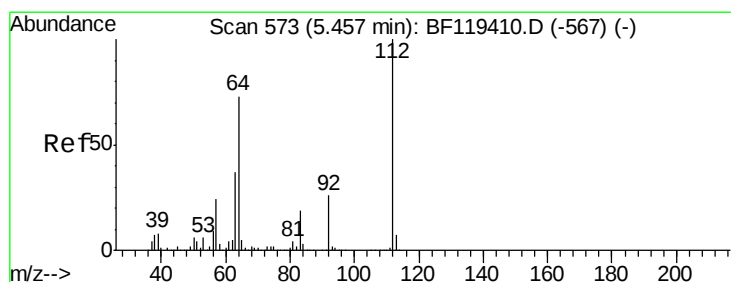
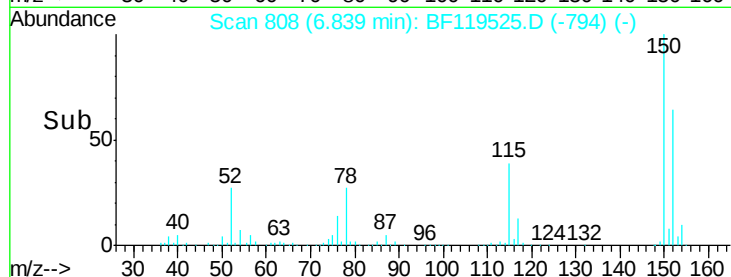
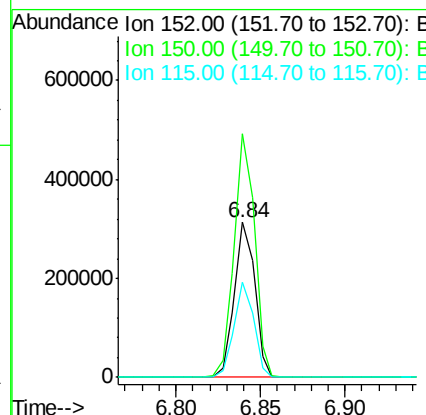
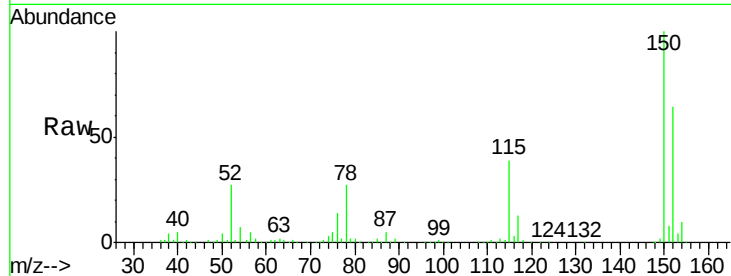
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.84 min Scan# 808  
 Delta R.T. -0.02 min  
 Lab File: BF119525.D  
 Acq: 26 Mar 2020 3:47

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GHD1-SB-0203-0-11

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.0 | 123.9 | 185.9 |
| 115     | 61.7  | 47.8  | 71.6  |

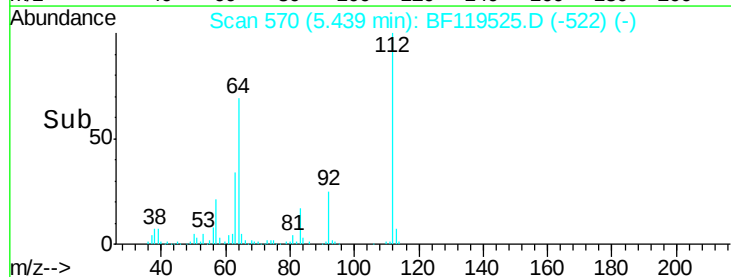
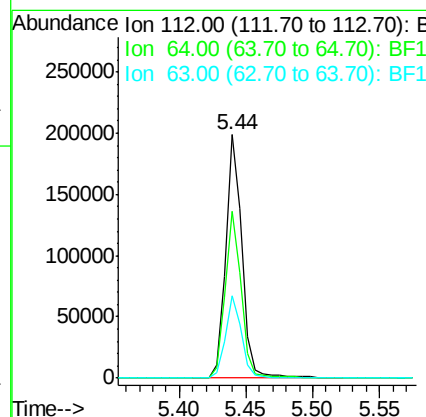
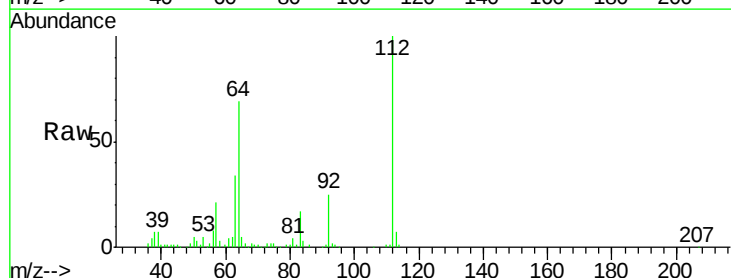
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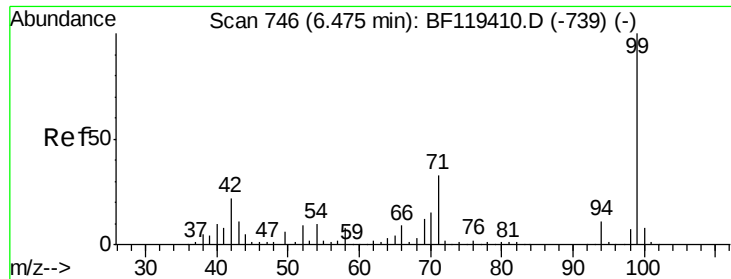
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#5  
 2-Fluorophenol  
 Concen: 10.283 ng  
 RT: 5.44 min Scan# 570  
 Delta R.T. -0.02 min  
 Lab File: BF119525.D  
 Acq: 26 Mar 2020 3:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 68.7  | 58.1  | 87.1  |
| 63      | 33.7  | 29.7  | 44.5  |





#7

Phenol-d6

Concen: 10.351 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.02 min

Lab File: BF119525.D

Acq: 26 Mar 2020 3:47

Instrument :

BNA\_F

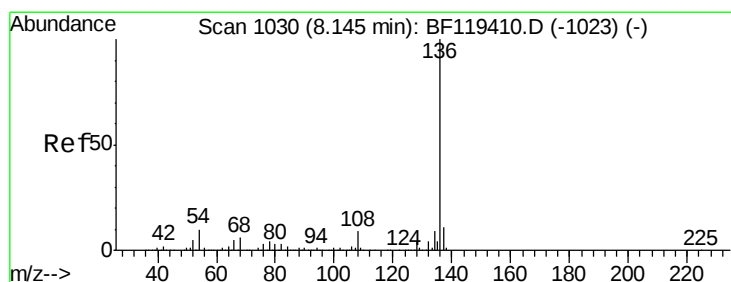
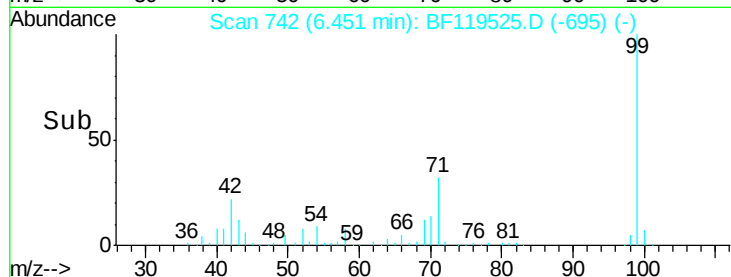
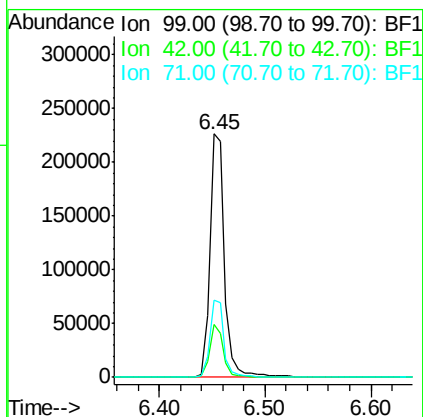
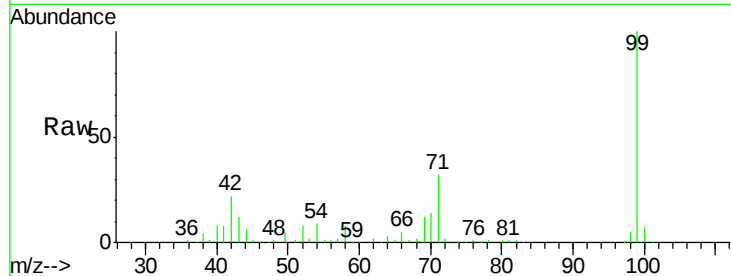
ClientSampleId :

GHD1-SB-0203-0-11

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 220170 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 21.6  | 17.8  | 26.6   |
| 71        | 31.8  | 26.0  | 39.0   |

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#21

Naphthalene-d8

Concen: 20.000 ng

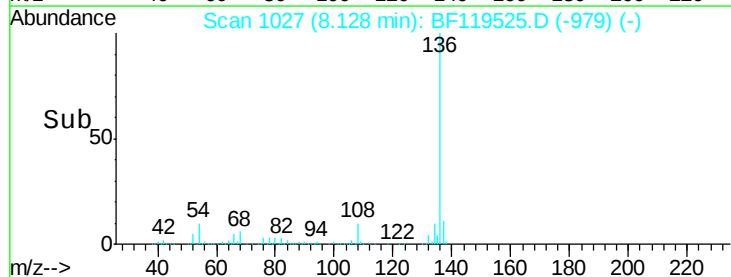
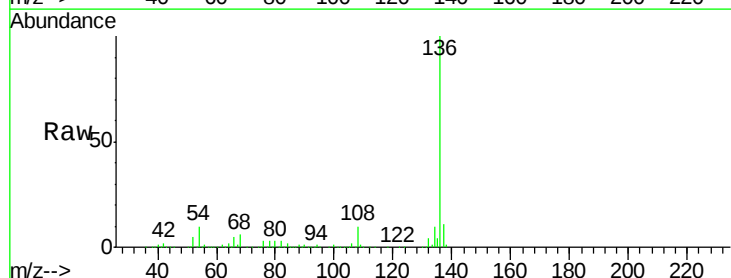
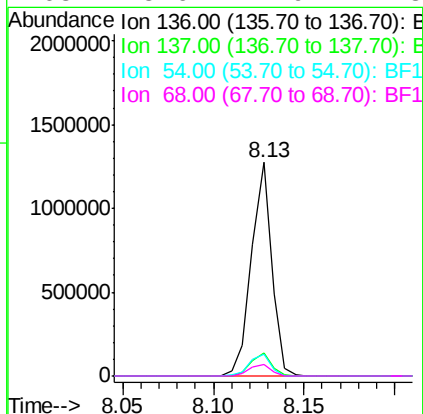
RT: 8.13 min Scan# 1027

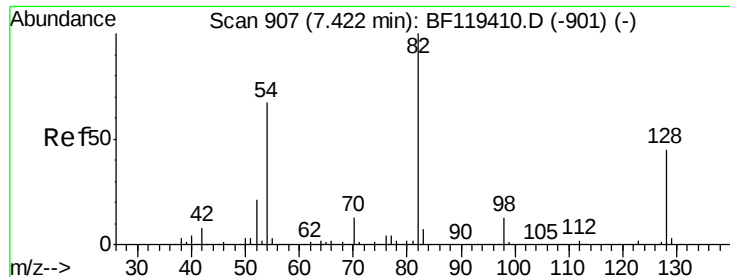
Delta R.T. -0.02 min

Lab File: BF119525.D

Acq: 26 Mar 2020 3:47

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 998832 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 11.0  | 8.4   | 12.6   |
| 54        | 10.1  | 8.3   | 12.5   |
| 68        | 5.6   | 4.9   | 7.3    |





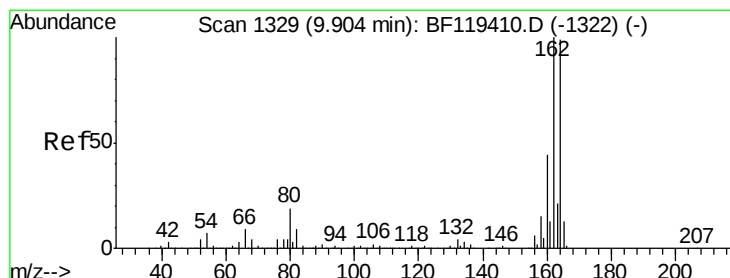
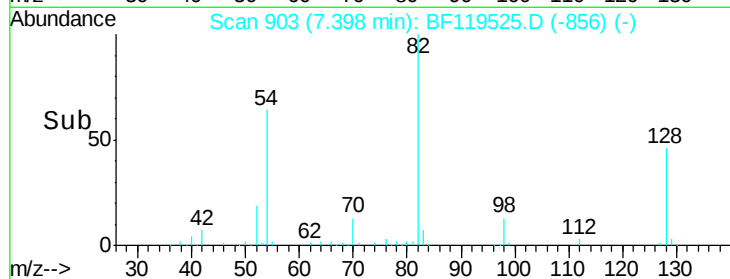
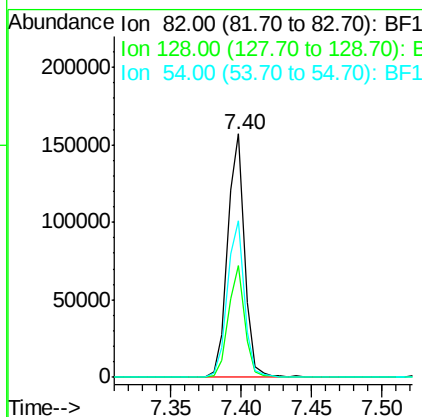
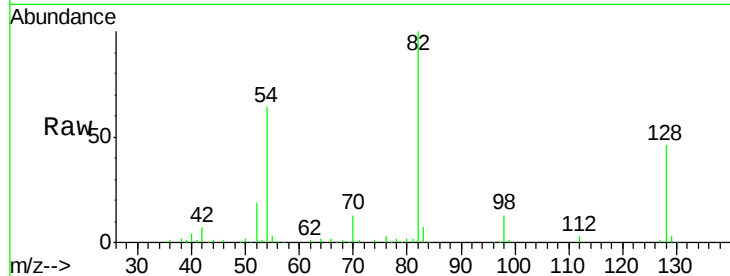
#23  
Nitrobenzene-d5  
Concen: 7.139 ng  
RT: 7.40 min Scan# 903  
Delta R.T. -0.02 min  
Lab File: BF119525.D  
Acq: 26 Mar 2020 3:47

Instrument :  
BNA\_F  
ClientSampleId :  
GHD1-SB-0203-0-11

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 46.0  | 35.8  | 53.8  |
| 54      | 64.4  | 53.4  | 80.0  |

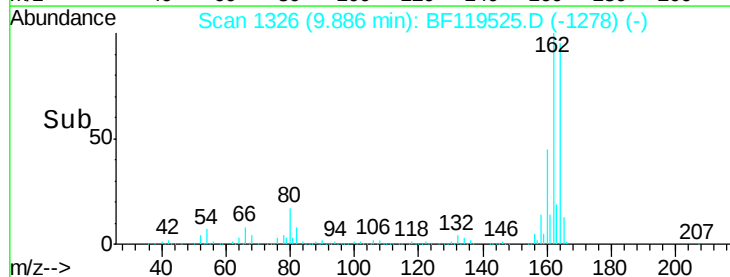
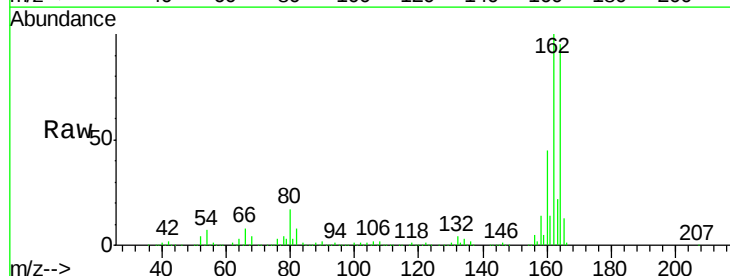
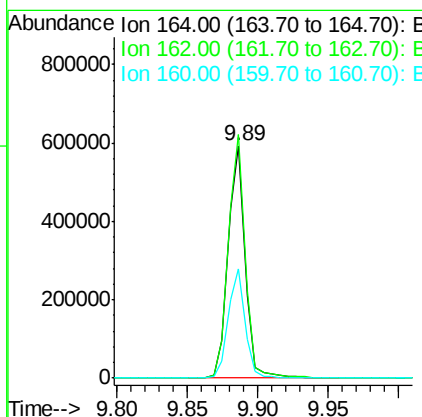
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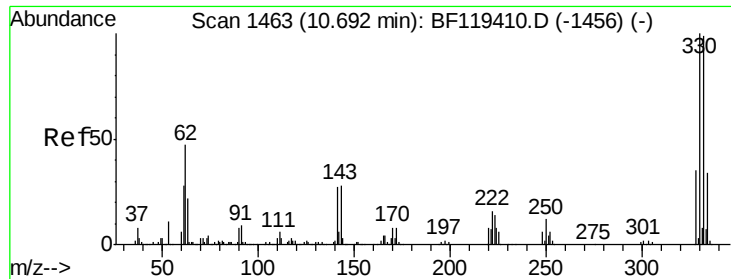
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.89 min Scan# 1326  
Delta R.T. -0.02 min  
Lab File: BF119525.D  
Acq: 26 Mar 2020 3:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.9 | 80.7  | 121.1 |
| 160     | 47.0  | 35.5  | 53.3  |





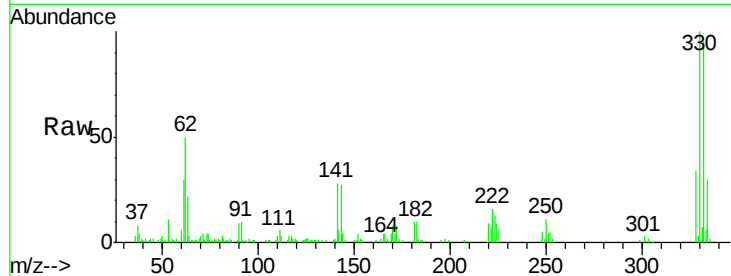
#42  
 2,4,6-Tribromophenol  
 Concen: 11.017 ng  
 RT: 10.67 min Scan# 1459  
 Delta R.T. -0.02 min  
 Lab File: BF119525.D  
 Acq: 26 Mar 2020 3:47

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GHD1-SB-0203-0-11

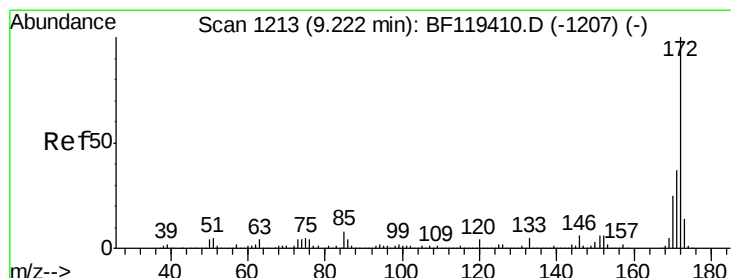
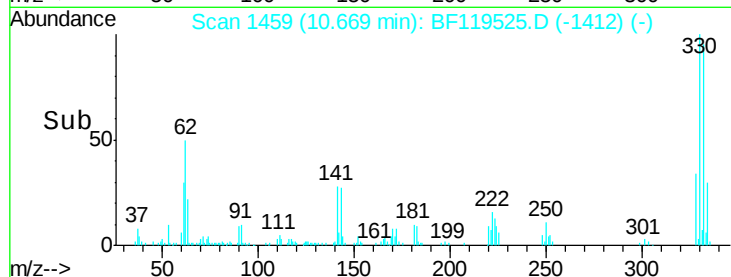
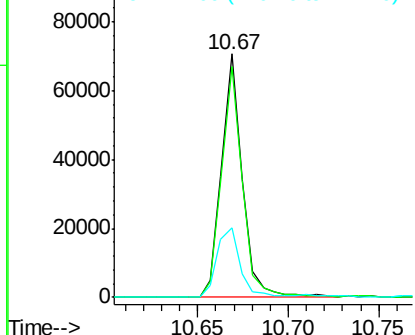
| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 330     | 100   | 56653 |       |       |
| 332     | 95.7  |       | 77.6  | 116.4 |
| 141     | 32.2  |       | 26.6  | 40.0  |

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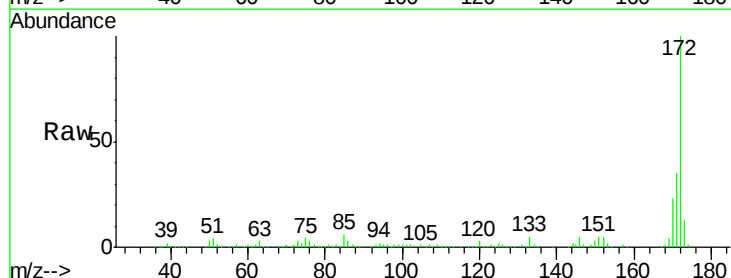


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

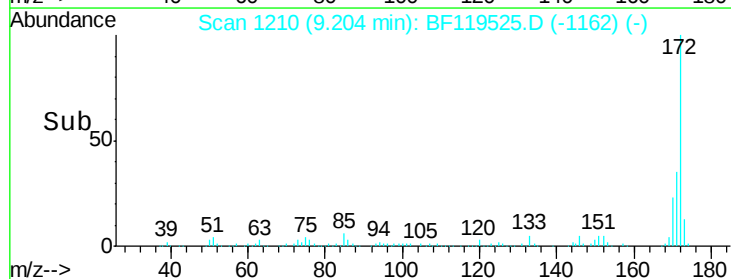
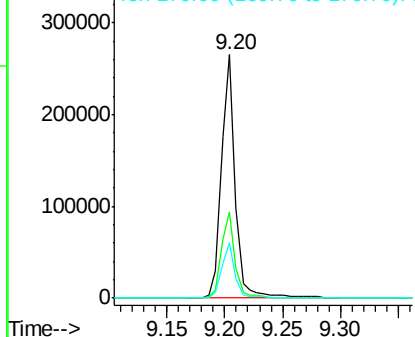


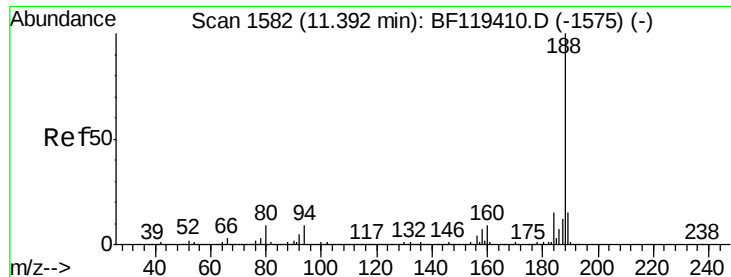
#45  
 2-Fluorobiphenyl  
 Concen: 6.577 ng  
 RT: 9.20 min Scan# 1210  
 Delta R.T. -0.02 min  
 Lab File: BF119525.D  
 Acq: 26 Mar 2020 3:47

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 221295 |       |       |
| 171     | 35.3  |        | 29.9  | 44.9  |
| 170     | 23.0  |        | 20.1  | 30.1  |



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





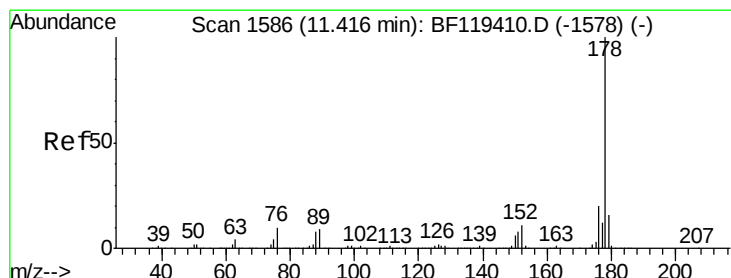
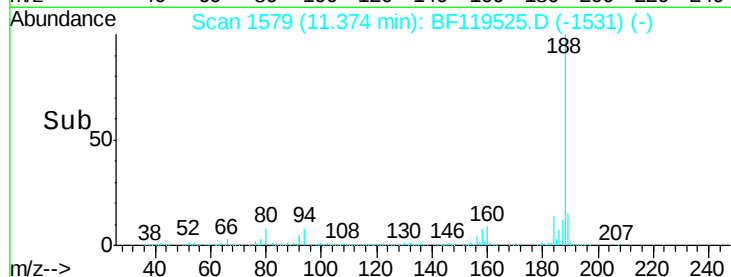
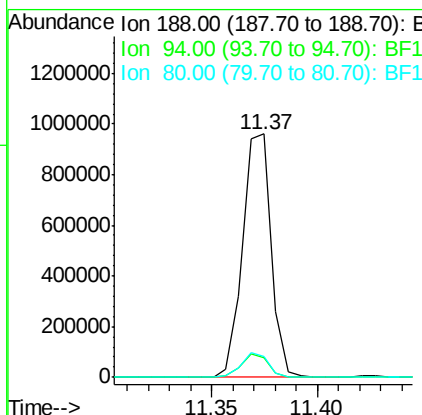
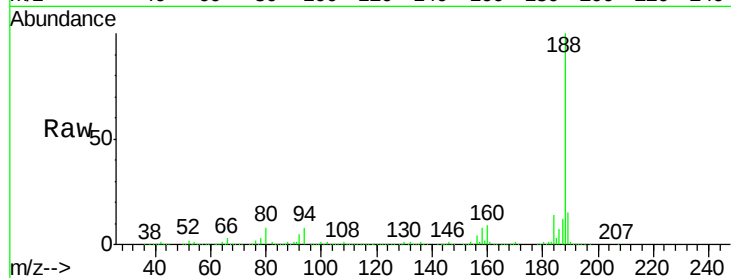
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.37 min Scan# 1579  
Delta R.T. -0.02 min  
Lab File: BF119525.D  
Acq: 26 Mar 2020 3:47

Instrument :  
BNA\_F  
ClientSampleId :  
GHD1-SB-0203-0-11

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 901314 |       |       |
| 94      | 8.3   |        | 7.1   | 10.7  |
| 80      | 8.4   |        | 7.5   | 11.3  |

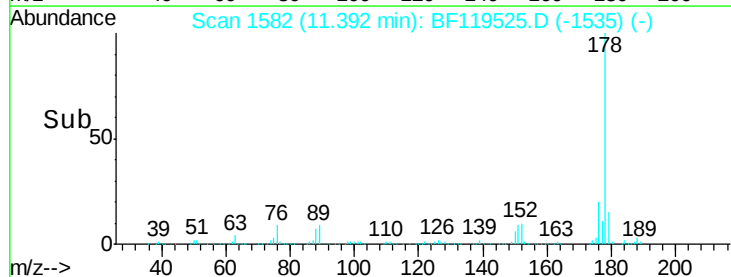
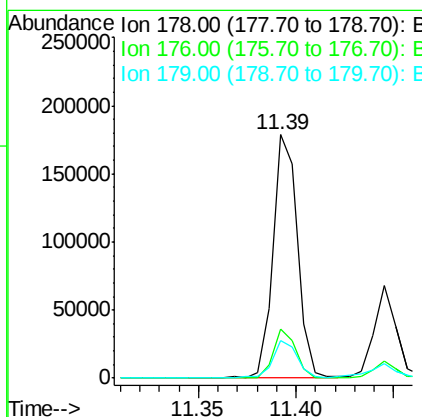
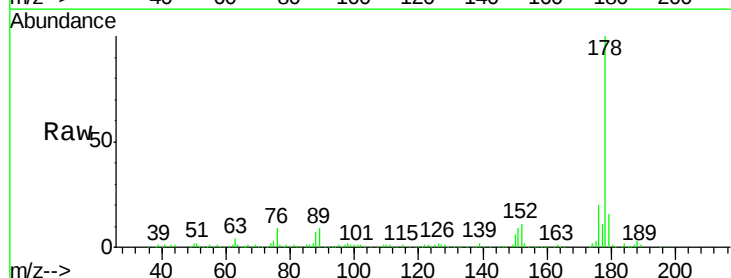
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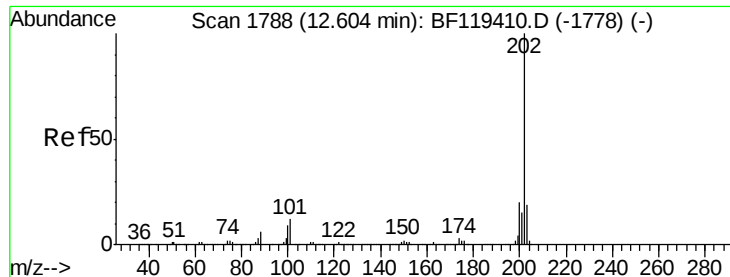
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#71  
Phenanthrene  
Concen: 3.330 ng  
RT: 11.39 min Scan# 1582  
Delta R.T. -0.02 min  
Lab File: BF119525.D  
Acq: 26 Mar 2020 3:47

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 155642 |       |       |
| 176     | 20.0  |        | 16.2  | 24.4  |
| 179     | 15.5  |        | 12.9  | 19.3  |





#75

Fluoranthene

Concen: 6.130 ng

RT: 12.59 min Scan# 1785

Delta R.T. -0.02 min

Lab File: BF119525.D

Acq: 26 Mar 2020 3:47

Instrument :

BNA\_F

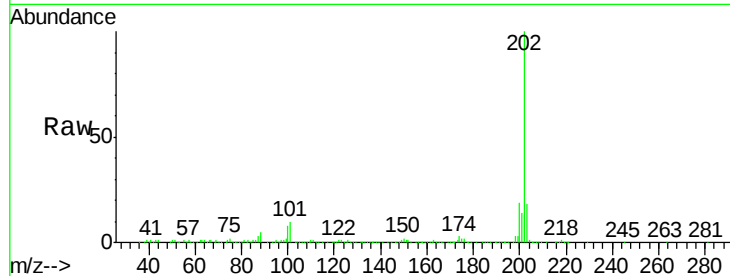
ClientSampleId :

GHD1-SB-0203-0-11

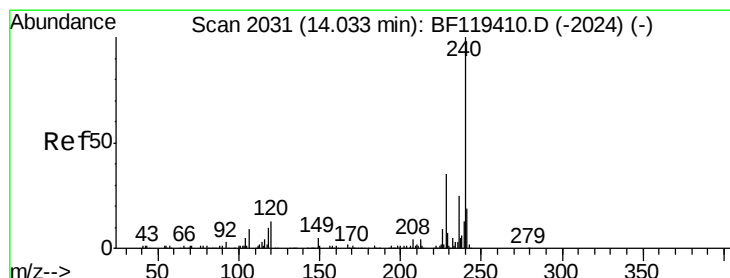
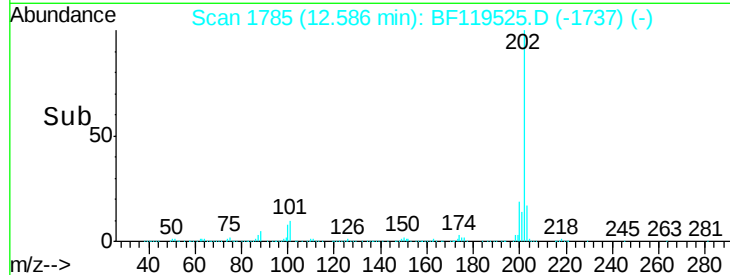
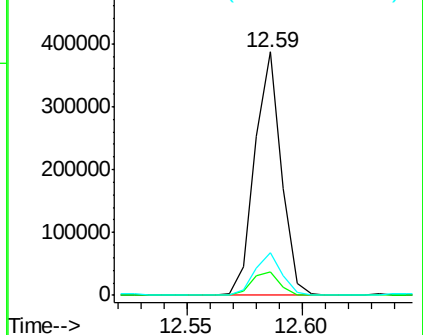
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 310069 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 9.6   | 0.0   | 32.4   |
| 203       | 17.6  | 0.0   | 38.5   |

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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

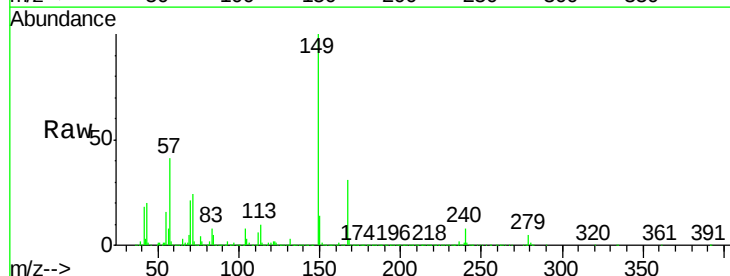
RT: 14.02 min Scan# 2028

Delta R.T. -0.02 min

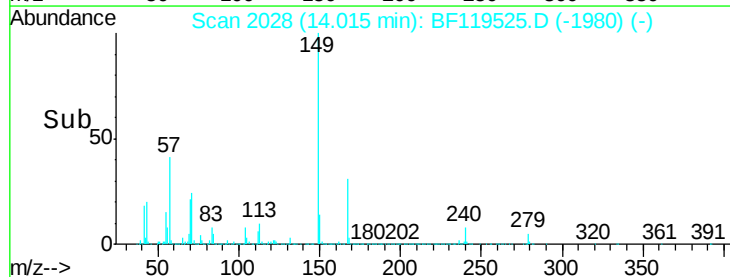
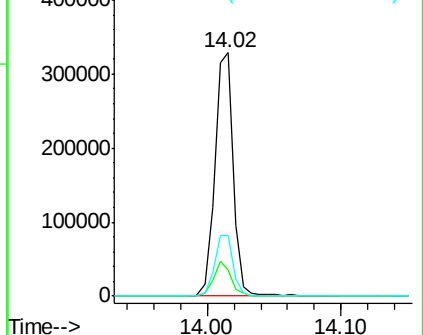
Lab File: BF119525.D

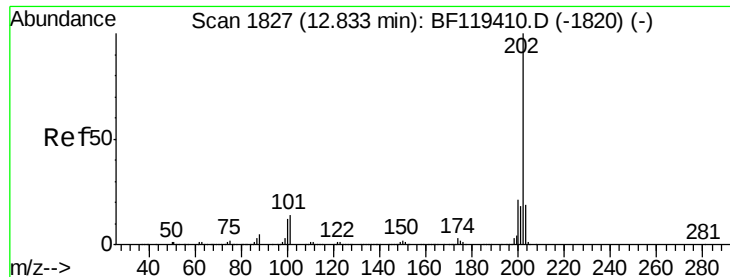
Acq: 26 Mar 2020 3:47

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 320797 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 10.9  | 10.2  | 15.4   |
| 236       | 24.7  | 20.4  | 30.6   |



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: 9.649 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.02 min

Lab File: BF119525.D

Acq: 26 Mar 2020 3:47

Instrument :

BNA\_F

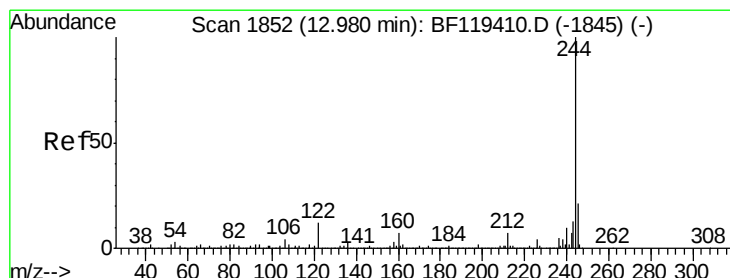
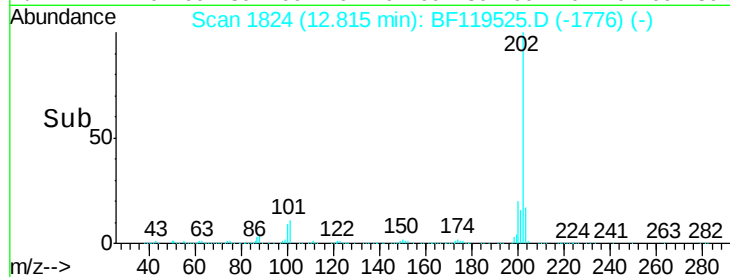
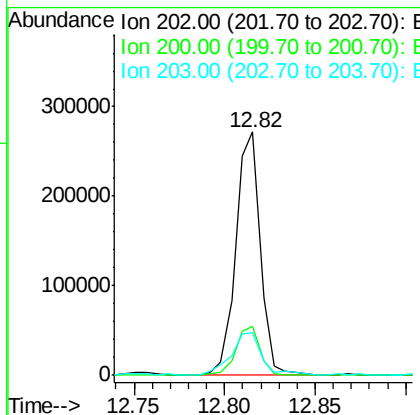
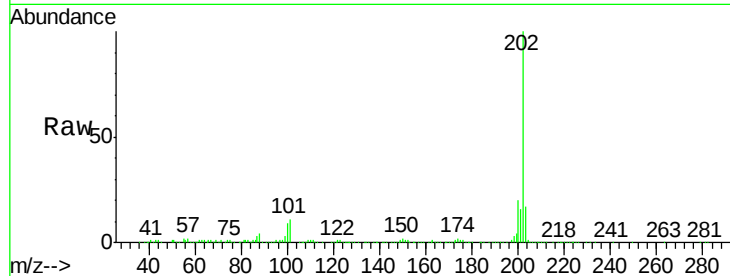
ClientSampleId :

GHD1-SB-0203-0-11

|             |       |        |
|-------------|-------|--------|
| Tot Ion:202 | Resp: | 254043 |
| Ion Ratio   | Lower | Upper  |
| 202 100     |       |        |
| 200 20.0    | 16.8  | 25.2   |
| 203 17.4    | 14.8  | 22.2   |

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#79

Terphenyl-d14

Concen: 11.401 ng

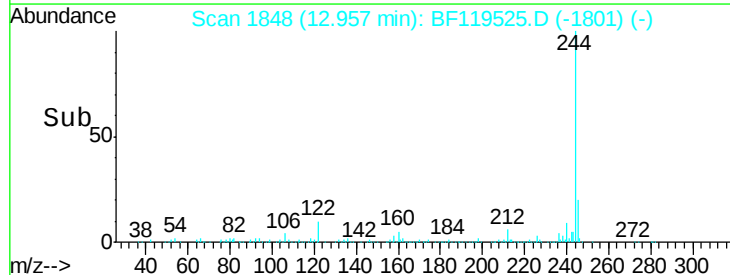
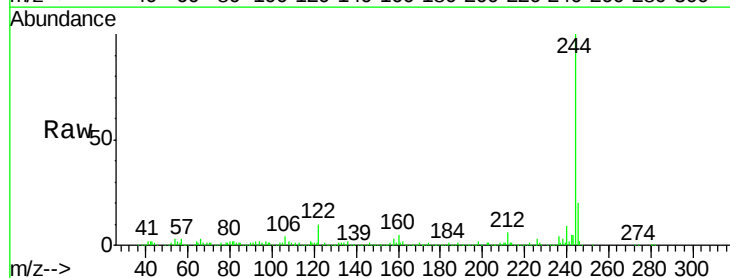
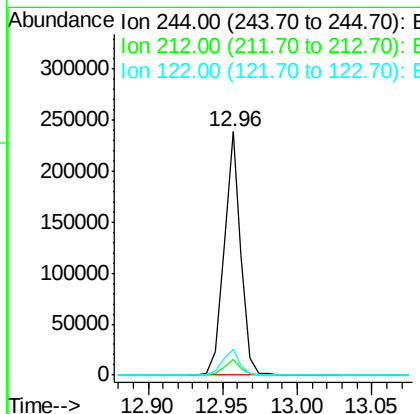
RT: 12.96 min Scan# 1848

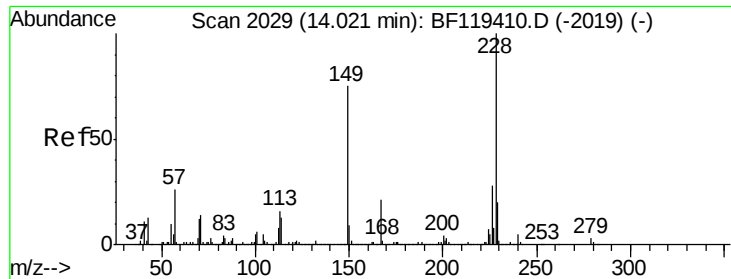
Delta R.T. -0.02 min

Lab File: BF119525.D

Acq: 26 Mar 2020 3:47

|             |       |        |
|-------------|-------|--------|
| Tgt Ion:244 | Resp: | 186684 |
| Ion Ratio   | Lower | Upper  |
| 244 100     |       |        |
| 212 6.2     | 5.7   | 8.5    |
| 122 10.5    | 9.8   | 14.8   |





#81

Benzo(a)anthracene

Concen: 3.985 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.02 min

Lab File: BF119525.D

Acq: 26 Mar 2020 3:47

Instrument :

BNA\_F

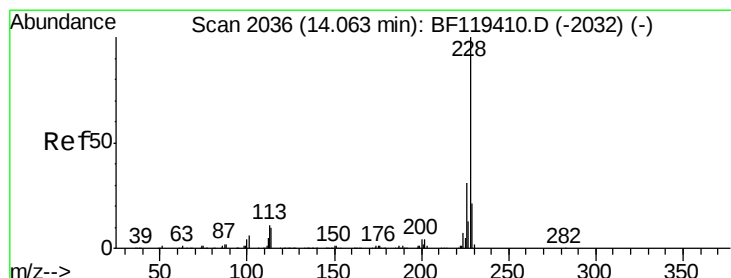
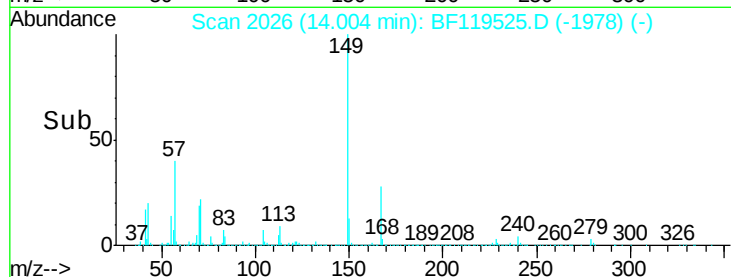
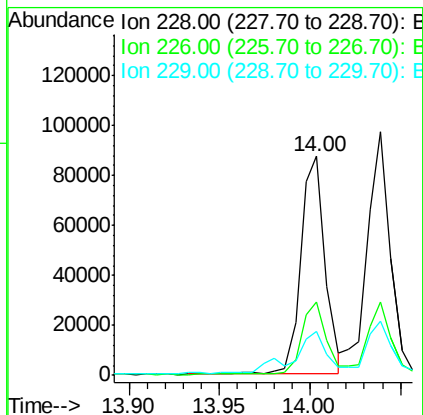
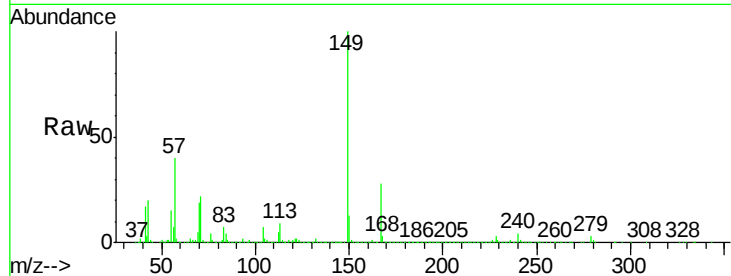
ClientSampleId :

GHD1-SB-0203-0-11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 83138 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 33.3  | 22.3  | 33.5  |
| 229       | 19.9  | 16.3  | 24.5  |

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#83

Chrysene

Concen: 4.042 ng

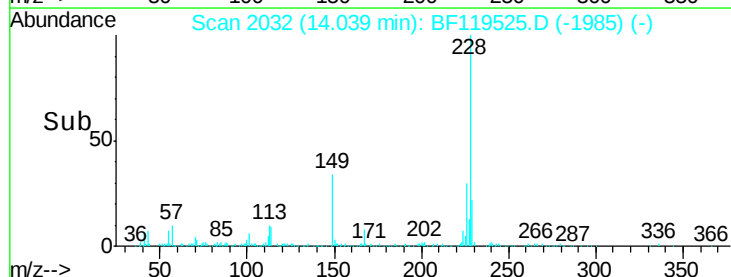
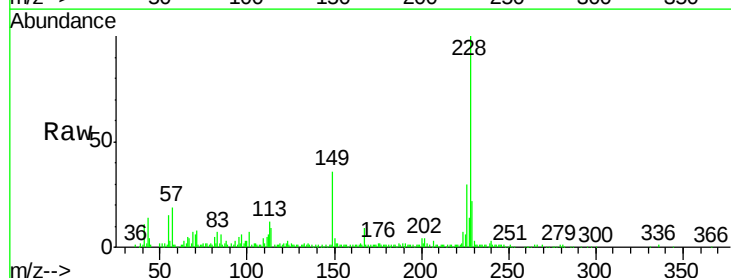
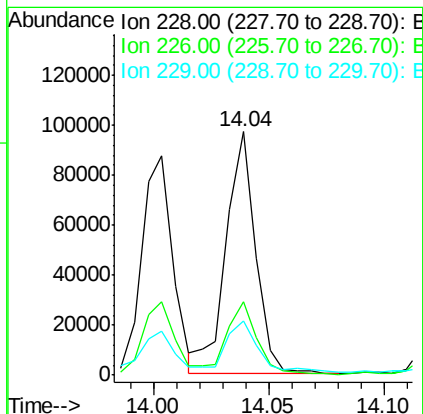
RT: 14.04 min Scan# 2032

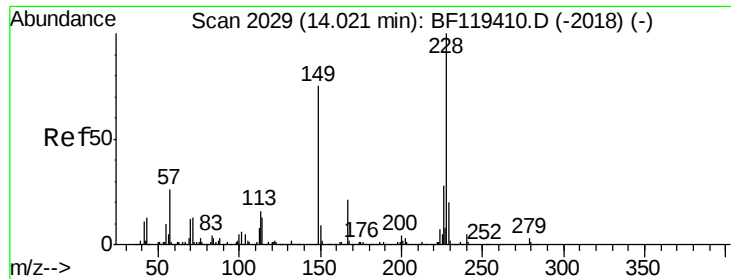
Delta R.T. -0.02 min

Lab File: BF119525.D

Acq: 26 Mar 2020 3:47

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 87012 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.3  | 24.8  | 37.2  |
| 229       | 22.5  | 16.6  | 25.0  |





#84

Bis(2-ethylhexyl)phthalate

Concen: 630.046 ng

RT: 14.02 min Scan# 2029

Delta R.T. -0.00 min

Lab File: BF119525.D

Acq: 26 Mar 2020 3:47

Instrument :

BNA\_F

ClientSampleId :

GHD1-SB-0203-0-11

Tot Ion:149 Resp: 7997587

Ion Ratio Lower Upper

149 100

167 32.7 22.0 33.0

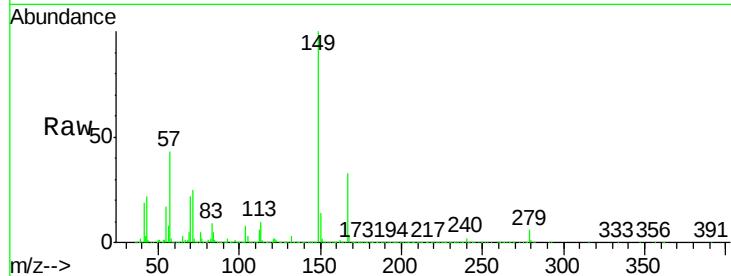
279 5.6 3.2 4.8#

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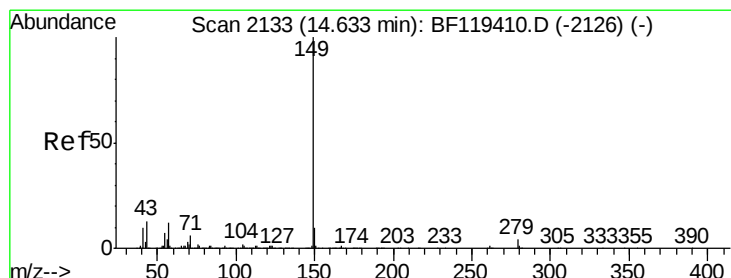
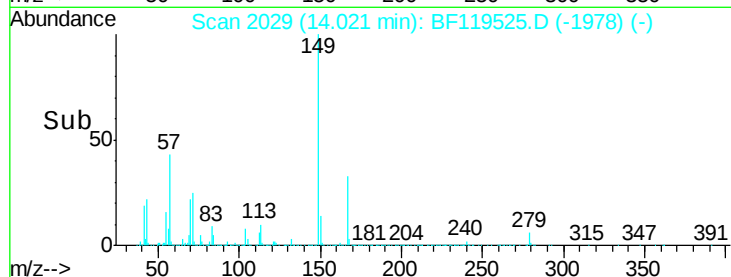
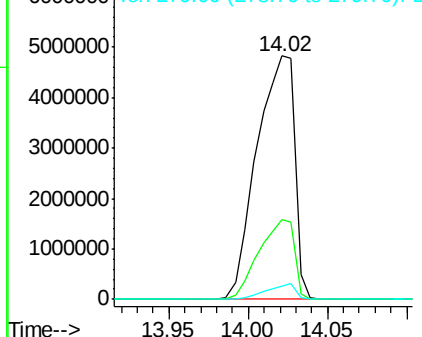
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Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#85

Di-n-octyl phthalate

Concen: 19.791 ng

RT: 14.62 min Scan# 2131

Delta R.T. -0.01 min

Lab File: BF119525.D

Acq: 26 Mar 2020 3:47

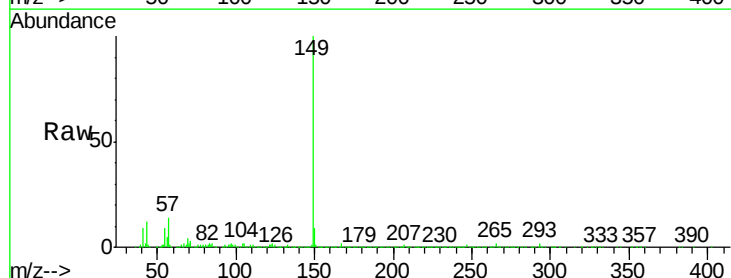
Tgt Ion:149 Resp: 441826

Ion Ratio Lower Upper

149 100

167 2.3 1.1 1.7#

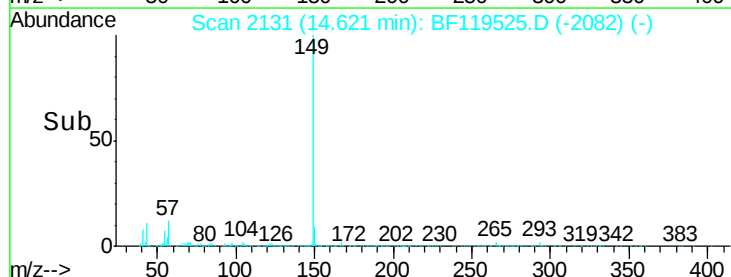
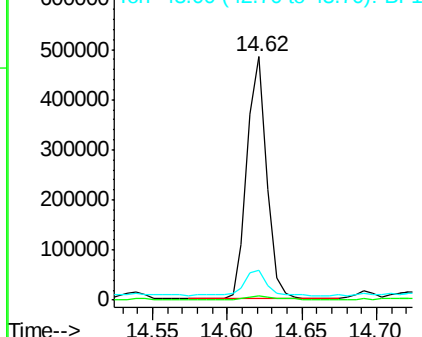
43 12.4 10.1 15.1

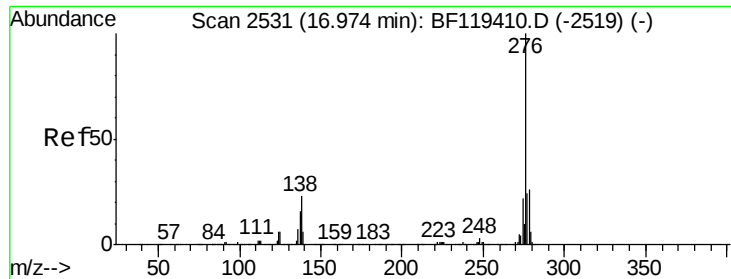


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BF1





#86

Indeno(1,2,3-cd)pyrene

Concen: 2.643 ng

RT: 16.93 min Scan# 2524

Delta R.T. -0.04 min

Lab File: BF119525.D

Acq: 26 Mar 2020 3:47

Instrument :

BNA\_F

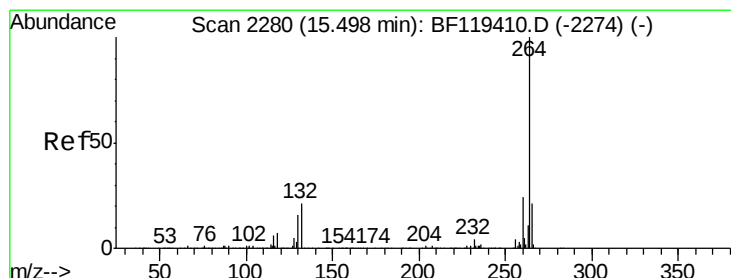
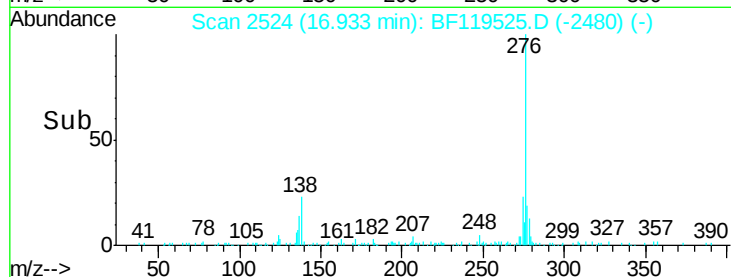
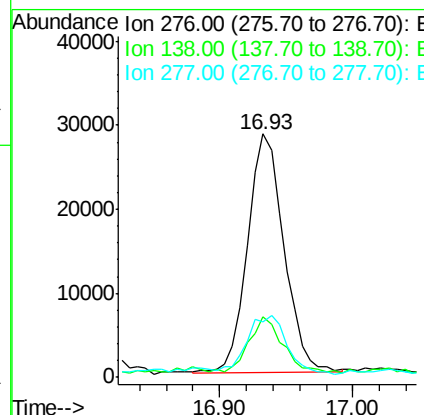
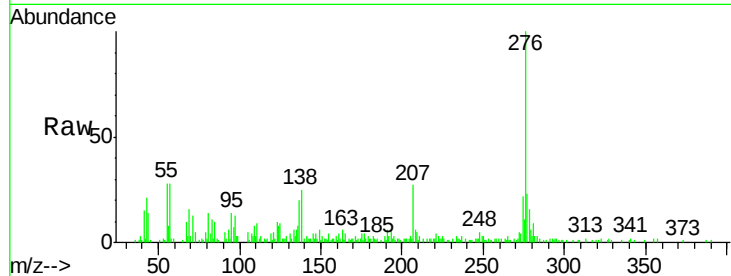
ClientSampleId :

GHD1-SB-0203-0-11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 53584 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 24.4  | 21.3  | 31.9  |
| 277       | 27.2  | 20.2  | 30.2  |

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#87

Perylene-d12

Concen: 20.000 ng

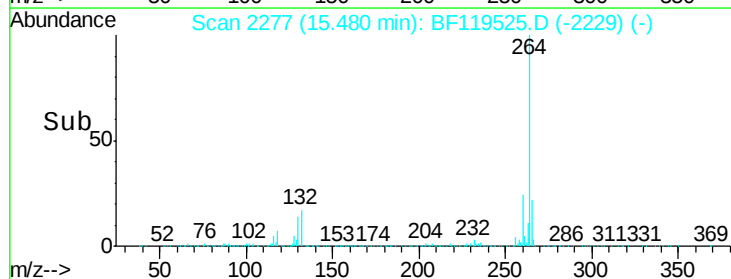
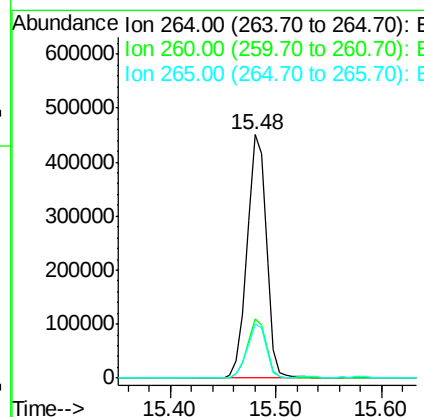
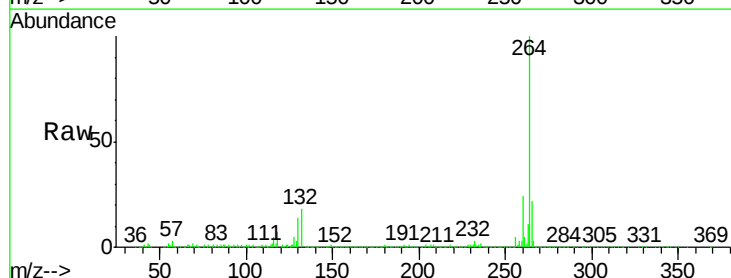
RT: 15.48 min Scan# 2277

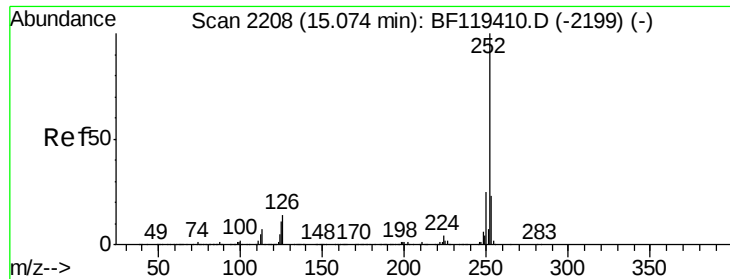
Delta R.T. -0.02 min

Lab File: BF119525.D

Acq: 26 Mar 2020 3:47

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 564479 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.2  | 19.2  | 28.8   |
| 265       | 22.4  | 16.9  | 25.3   |





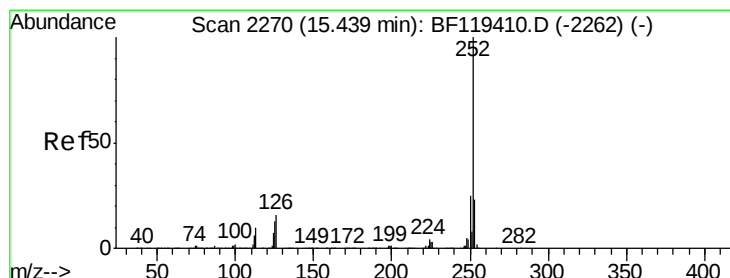
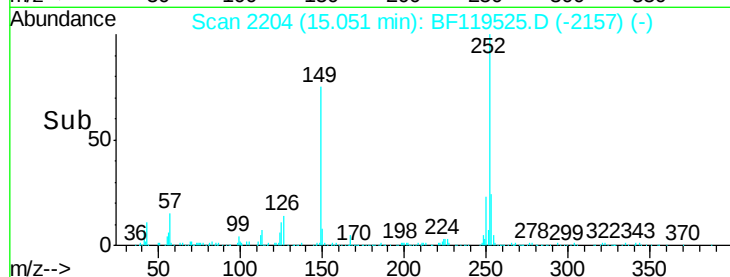
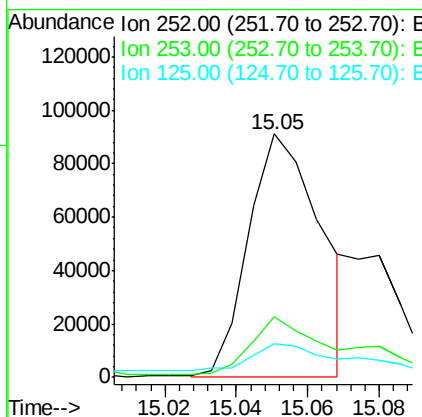
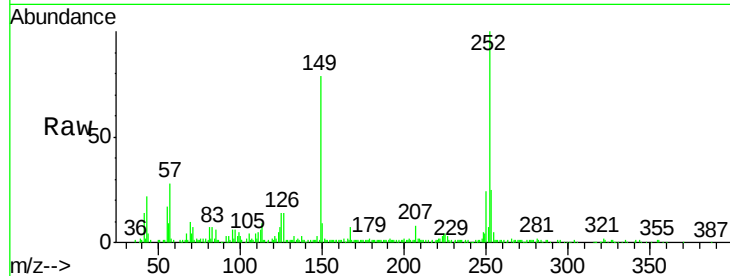
#88  
Benzo(b)fluoranthene  
Concen: 3.412 ng m  
RT: 15.05 min Scan# 2204  
Delta R.T. -0.02 min  
Lab File: BF119525.D  
Acq: 26 Mar 2020 3:47

Instrument :  
BNA\_F  
ClientSampleId :  
GHD1-SB-0203-0-11

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.7  | 18.2  | 27.4  |
| 125     | 13.9  | 8.8   | 13.2  |

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#90  
Benzo(a)pyrene  
Concen: 2.639 ng  
RT: 15.42 min Scan# 2266  
Delta R.T. -0.02 min  
Lab File: BF119525.D  
Acq: 26 Mar 2020 3:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 18.2  | 27.4  |
| 125     | 13.4  | 10.2  | 15.2  |

