

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE032319\  
 Data File : BE099127.D  
 Acq On : 24 Mar 2019 1:15  
 Operator : JU/SJ  
 Sample : K2014-20  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PST-026-SW078-031919

Manual Integrations  
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Sohil  
 3/25/2019 12:37:22 PM

Quant Time: Mar 24 03:49:43 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE032219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Mar 23 04:40:11 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.84  | 152  | 3438     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.63 | 136  | 13437    | 0.40 | ng    | -0.01    |
| 13) Acenaphthene-d10      | 14.48 | 164  | 8944     | 0.40 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.21 | 188  | 26233    | 0.40 | ng    | 0.00     |
| 27) Chrysene-d12          | 21.38 | 240  | 38912    | 0.40 | ng    | -0.01    |
| 34) Perylene-d12          | 23.89 | 264  | 42607    | 0.40 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Fluorophenol           | 5.41  | 112  | 4219     | 0.41 | ng    | 0.00     |
| 5) Phenol-d6                | 6.99  | 99   | 5928     | 0.40 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.99  | 82   | 4173     | 0.71 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.22 | 152  | 8826     | 0.36 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol    | 15.96 | 330  | 1634     | 0.62 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl        | 13.10 | 172  | 12553    | 0.35 | ng    | -0.02    |
| 25) Fluoranthene-d10        | 19.24 | 212  | 132999   | 0.38 | ng    | 0.00     |
| 29) Terphenyl-d14           | 19.83 | 244  | 22850    | 0.28 | ng    | 0.00     |

| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 16) Acenaphthylene             | 14.20 | 152  | 961      | 0.020 | ng    | 95     |
| 23) Phenanthrene               | 17.25 | 178  | 14211    | 0.182 | ng    | 99     |
| 26) Fluoranthene               | 19.27 | 202  | 32163    | 0.293 | ng    | 98     |
| 28) Pyrene                     | 19.63 | 202  | 31600    | 0.239 | ng    | 95     |
| 30) Benzo(a)anthracene         | 21.37 | 228  | 17900    | 0.131 | ng    | 98     |
| 31) Chrysene                   | 21.42 | 228  | 18760    | 0.137 | ng    | 95     |
| 32) Bis(2-ethylhexyl)phthalate | 21.29 | 149  | 28462    | 0.160 | ng    | 98     |
| 33) Indeno(1,2,3-cd)pyrene     | 26.54 | 276  | 10639    | 0.072 | ng    | # 85   |
| 35) Benzo(b)fluoranthene       | 23.12 | 252  | 24246    | 0.165 | ng    | # 90   |
| 36) Benzo(k)fluoranthene       | 23.17 | 252  | 8940m    | 0.062 | ng    |        |
| 37) Benzo(a)pyrene             | 23.78 | 252  | 16072    | 0.118 | ng    | 96     |
| 38) Dibenzo(a,h)anthracene     | 26.57 | 278  | 2731     | 0.021 | ng    | # 61   |
| 39) Benzo(a,h,i)perylene       | 27.37 | 276  | 11007    | 0.081 | ng    | 95     |

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

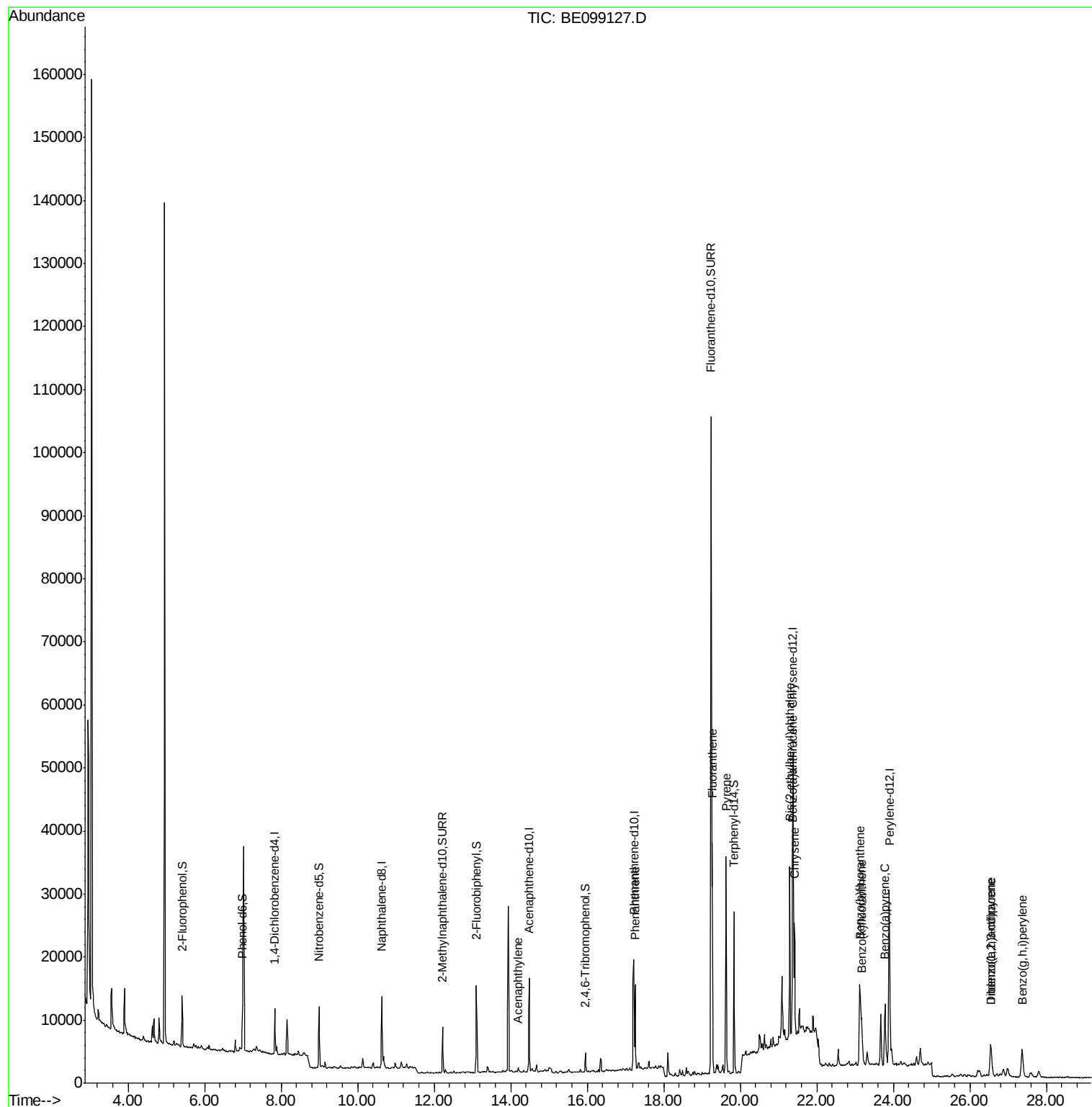
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE032319\  
Data File : BE099127.D  
Acq On : 24 Mar 2019 1:15  
Operator : JU/SJ  
Sample : K2014-20  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

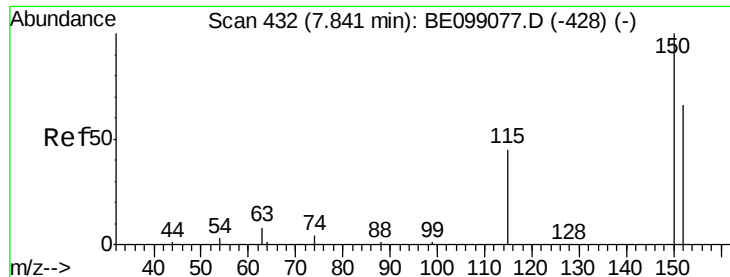
Instrument :  
BNA\_E  
ClientSampleId :  
PST-026-SW078-031919

Quant Time: Mar 24 03:49:43 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE032219.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Mar 23 04:40:11 2019  
Response via : Initial Calibration

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#1

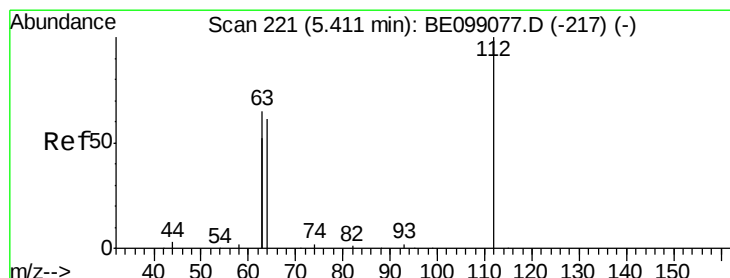
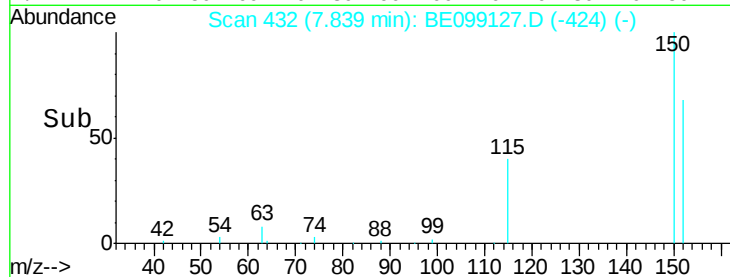
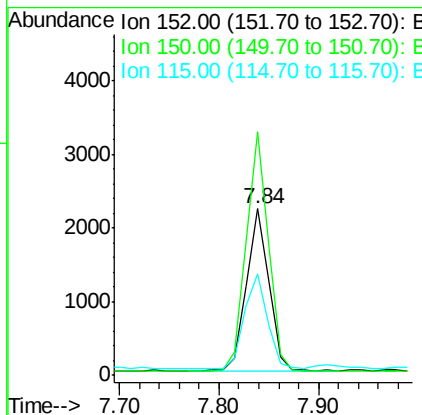
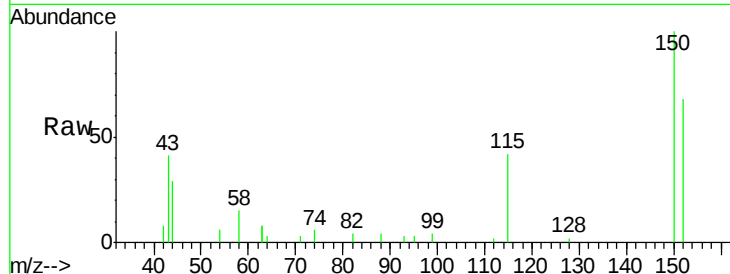
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.84 min Scan# 432  
Delta R.T. -0.00 min  
Lab File: BE099127.D  
Acq: 24 Mar 2019 1:15

Instrument :  
BNA\_E  
ClientSampleId :  
PST-026-SW078-031919

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 146.3 | 122.5 | 183.7 |
| 115     | 61.3  | 57.4  | 86.2  |

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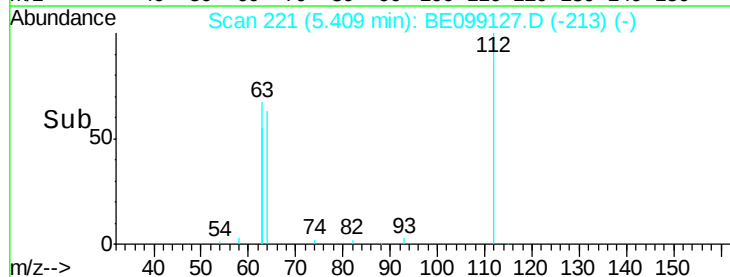
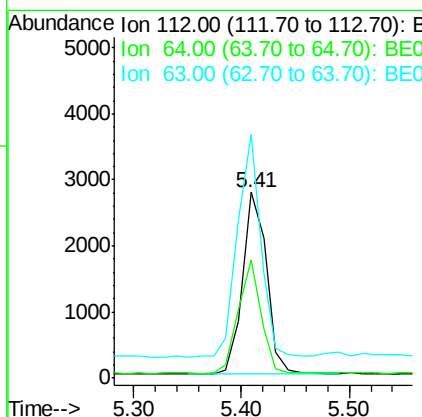
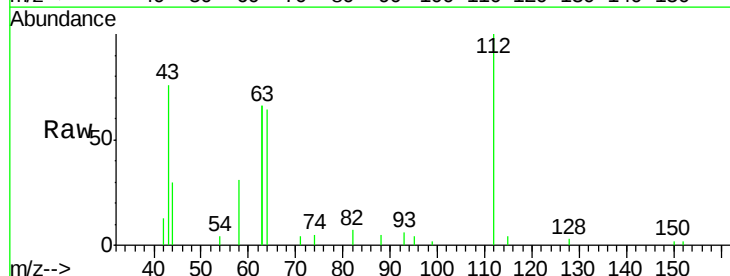
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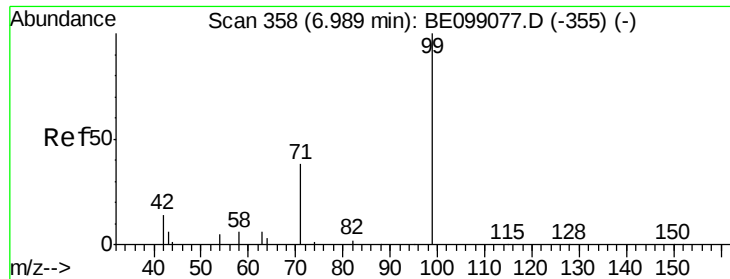


#4

2-Fluorophenol  
Concen: 0.412 ng  
RT: 5.41 min Scan# 221  
Delta R.T. -0.00 min  
Lab File: BE099127.D  
Acq: 24 Mar 2019 1:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.2  | 57.9  | 86.9  |
| 63      | 118.7 | 158.3 | 237.5 |





#5

Phenol-d6

Concen: 0.402 ng

RT: 6.99 min Scan# 358

Delta R.T. -0.00 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

Instrument :

BNA\_E

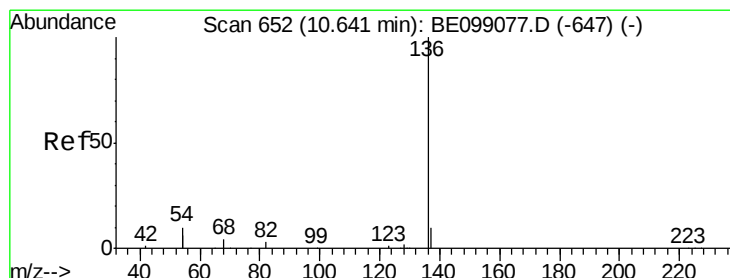
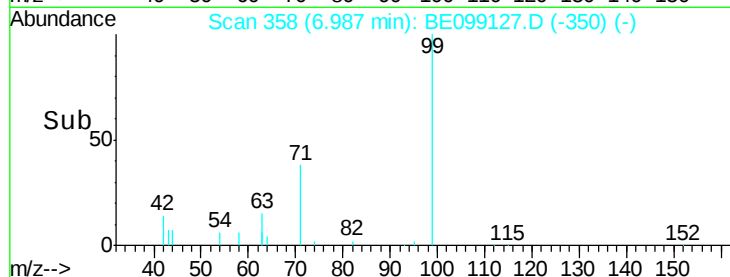
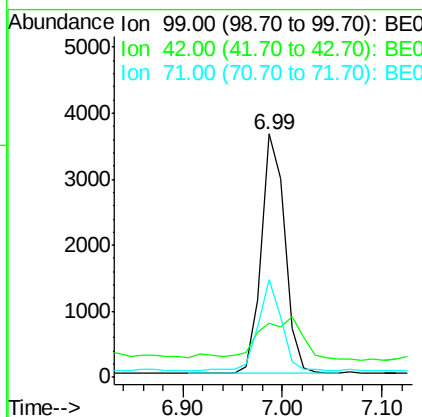
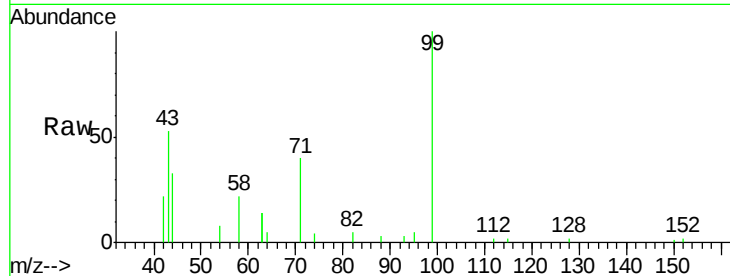
ClientSampleId :

PST-026-SW078-031919

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 5928  |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 0.0   | 24.2  | 36.2# |
| 71        | 37.4  | 35.7  | 53.5  |

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#7

Naphthalene-d8

Concen: 0.400 ng

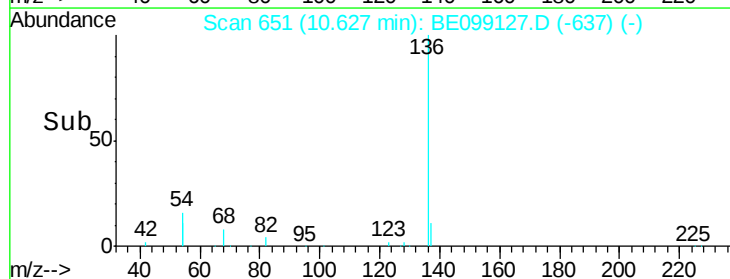
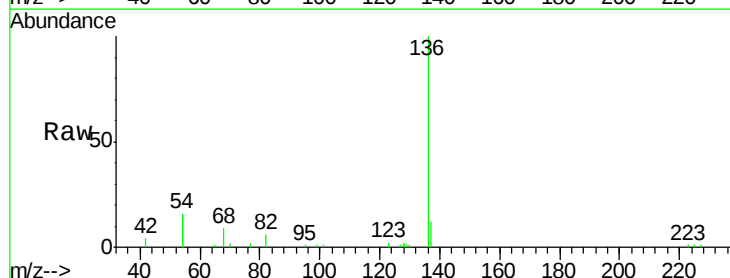
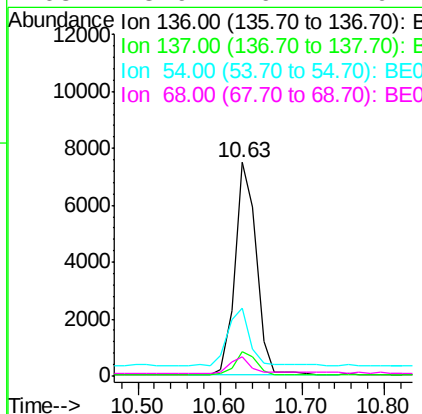
RT: 10.63 min Scan# 651

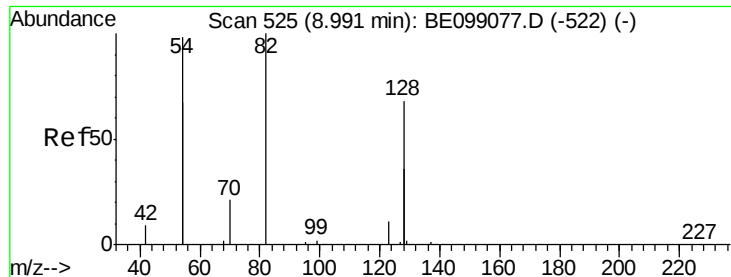
Delta R.T. -0.01 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 13437 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.5  | 11.4  | 17.0  |
| 54        | 32.1  | 39.3  | 58.9# |
| 68        | 8.9   | 6.7   | 10.1  |





#8

Nitrobenzene-d5

Concen: 0.710 ng

RT: 8.99 min Scan# 525

Delta R.T. -0.01 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

Instrument :

BNA\_E

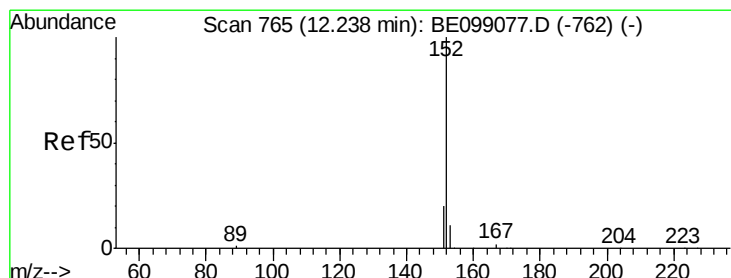
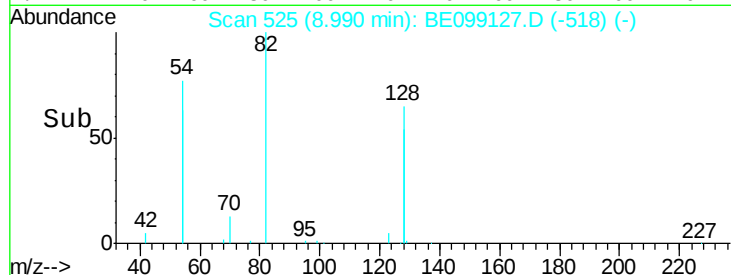
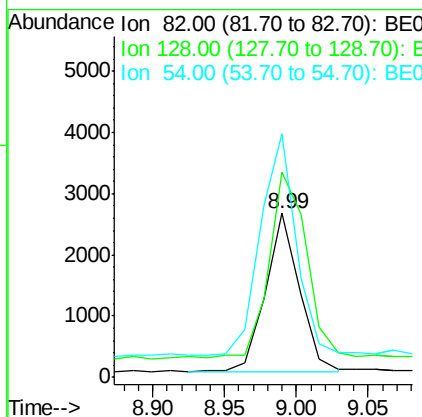
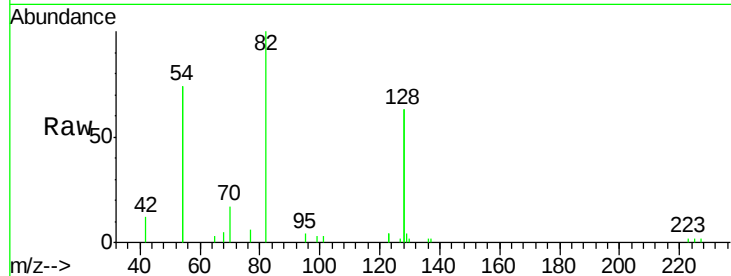
ClientSampleId :

PST-026-SW078-031919

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 125.2 | 123.8 | 185.8 |
| 54      | 148.6 | 203.4 | 305.2 |

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#11

2-Methylnaphthalene-d10

Concen: 0.365 ng

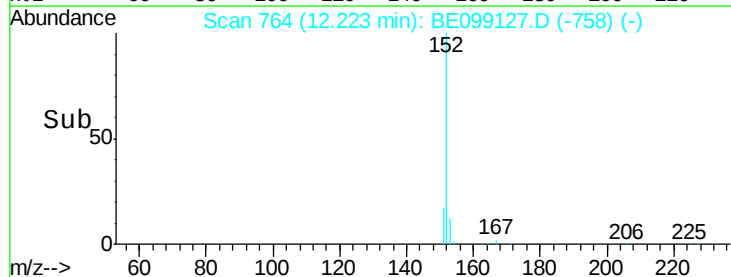
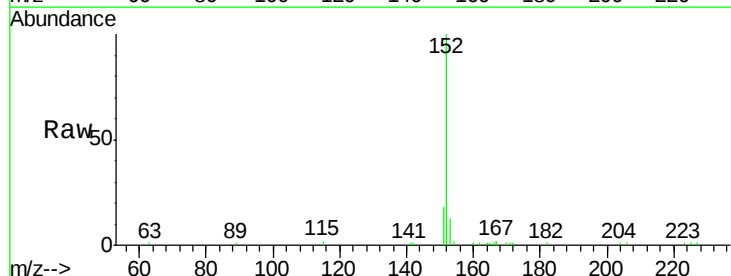
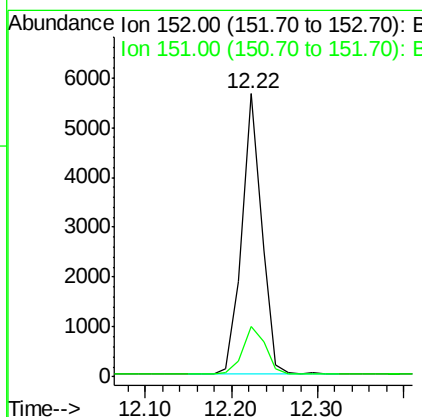
RT: 12.22 min Scan# 764

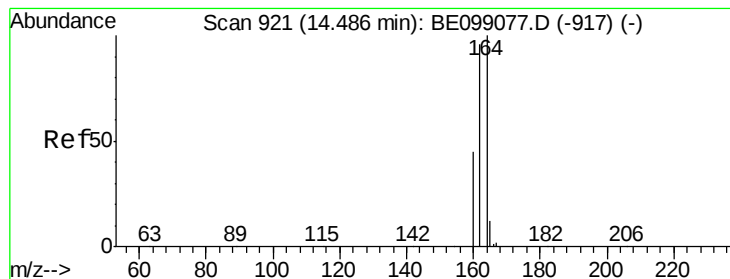
Delta R.T. -0.02 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.9  | 16.5  | 24.7  |





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.48 min Scan# 921

Delta R.T. -0.00 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

Instrument :

BNA\_E

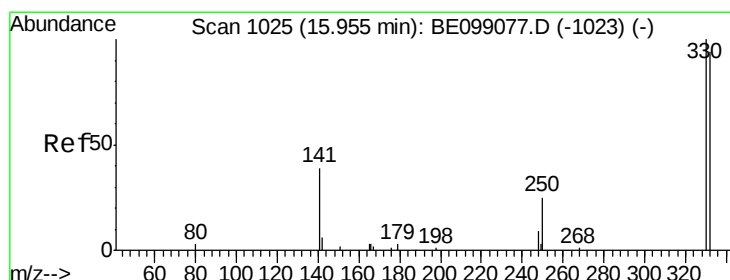
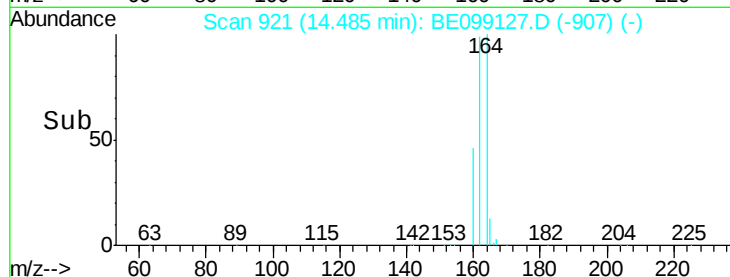
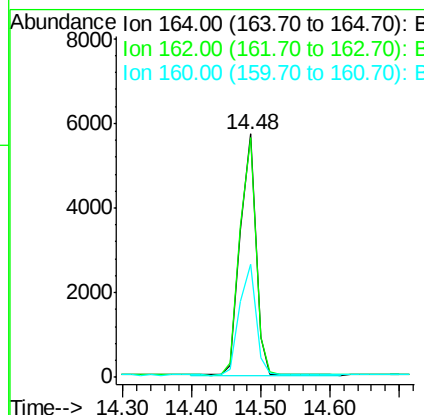
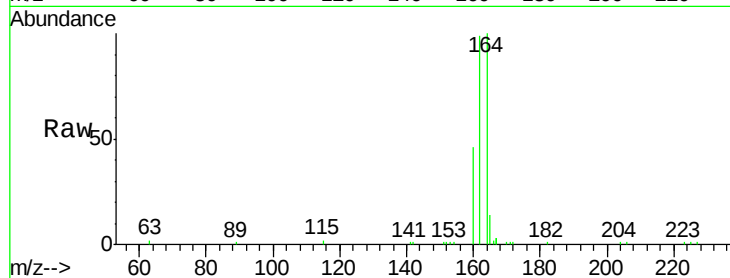
ClientSampleId :

PST-026-SW078-031919

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 164   | Resp: | 8944  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 162      | 98.5  | 80.2  | 120.2 |
| 160      | 46.2  | 37.8  | 56.8  |

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#14

2,4,6-Tribromophenol

Concen: 0.621 ng

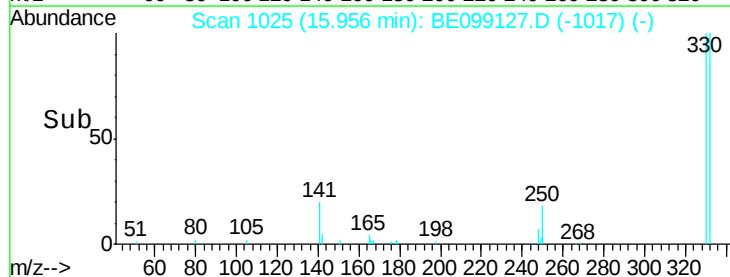
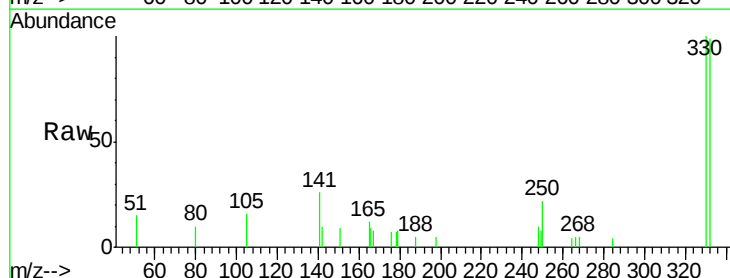
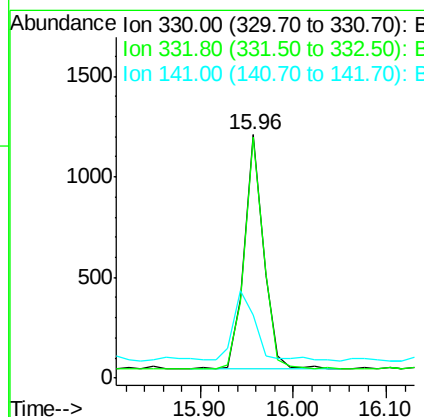
RT: 15.96 min Scan# 1025

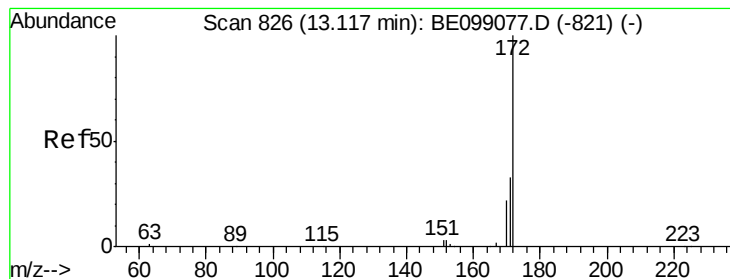
Delta R.T. 0.00 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 330   | Resp: | 1634  |
| Ion      | Ratio | Lower | Upper |
| 330      | 100   |       |       |
| 332      | 100.2 | 77.6  | 116.4 |
| 141      | 35.7  | 31.0  | 46.4  |





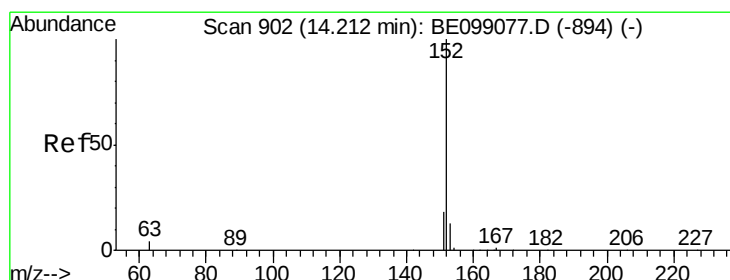
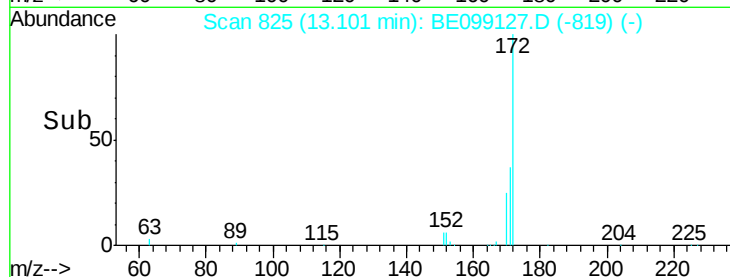
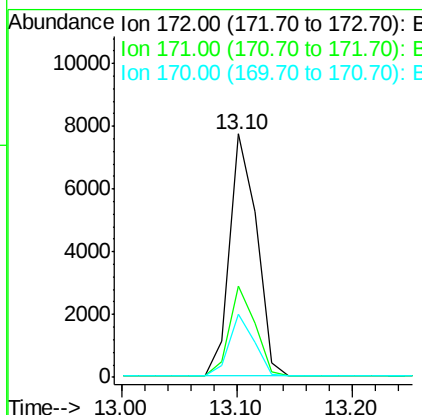
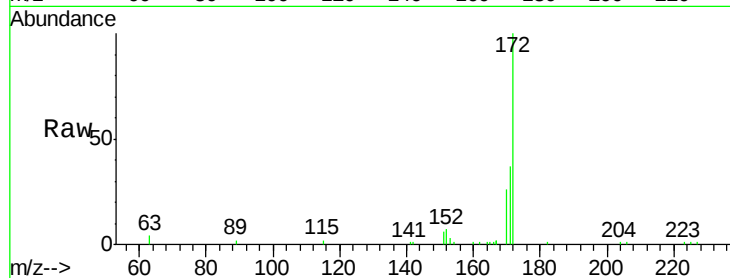
#15  
2-Fluorobiphenyl  
Concen: 0.353 ng  
RT: 13.10 min Scan# 825  
Delta R.T. -0.02 min  
Lab File: BE099127.D  
Acq: 24 Mar 2019 1:15

Instrument :  
BNA\_E  
ClientSampleId :  
PST-026-SW078-031919

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.5  | 28.0  | 42.0  |
| 170     | 25.7  | 17.7  | 26.5  |

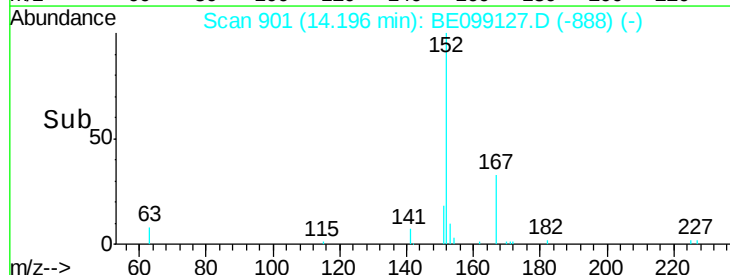
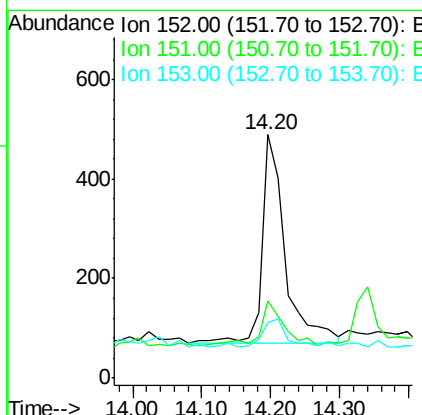
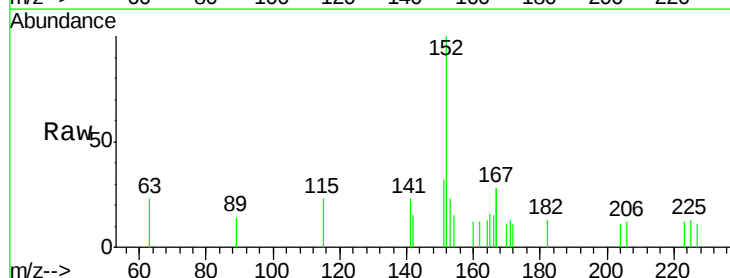
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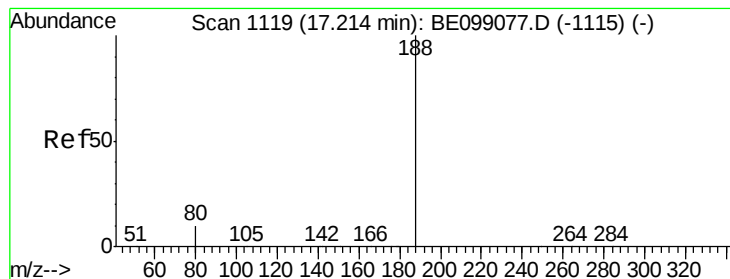
Sohil  
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#16  
Acenaphthylene  
Concen: 0.020 ng  
RT: 14.20 min Scan# 901  
Delta R.T. -0.02 min  
Lab File: BE099127.D  
Acq: 24 Mar 2019 1:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 24.6  | 17.0  | 25.6  |
| 153     | 13.1  | 11.2  | 16.8  |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.21 min Scan# 1119

Delta R.T. 0.00 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

Instrument :

BNA\_E

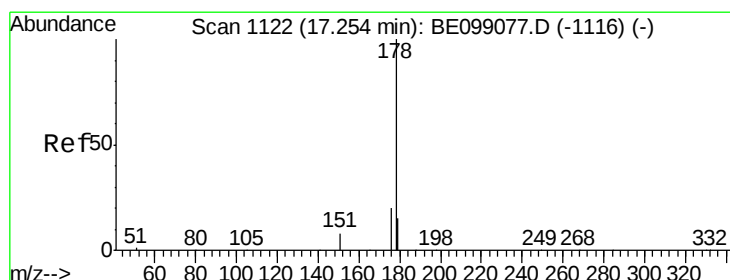
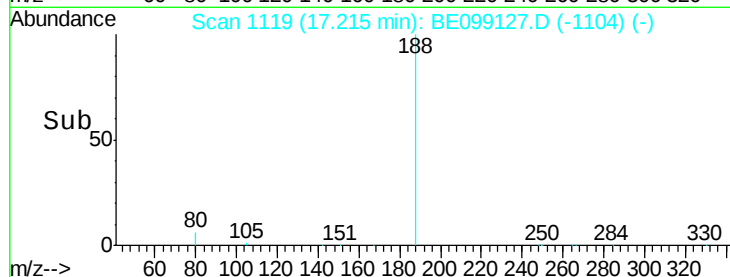
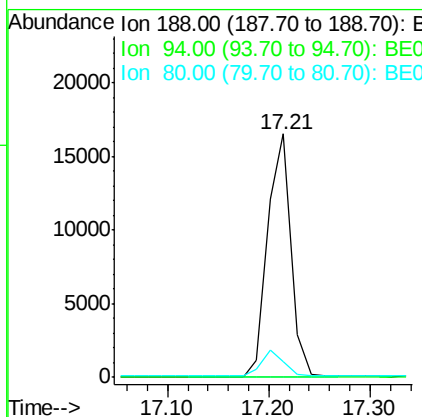
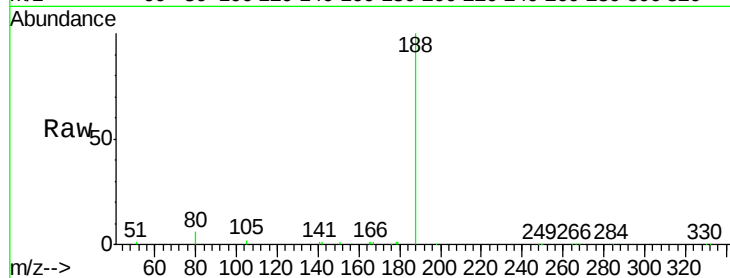
ClientSampleId :

PST-026-SW078-031919

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 0.0   | 0.0        | 0.0   |
| 80      | 6.3   | 6.3        | 9.5#  |

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#23

Phenanthrene

Concen: 0.182 ng

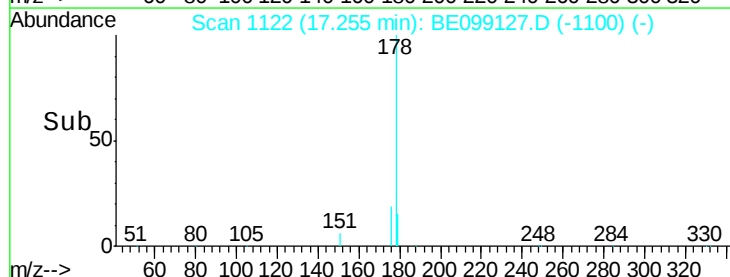
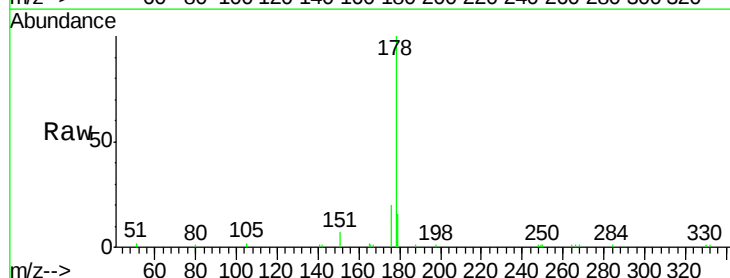
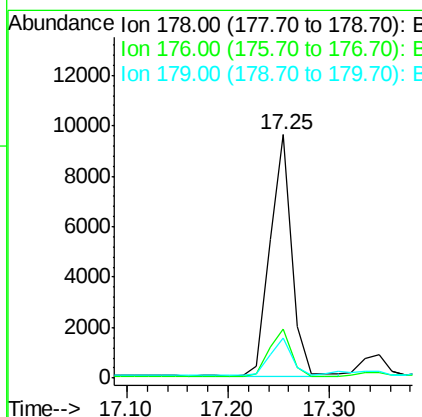
RT: 17.25 min Scan# 1122

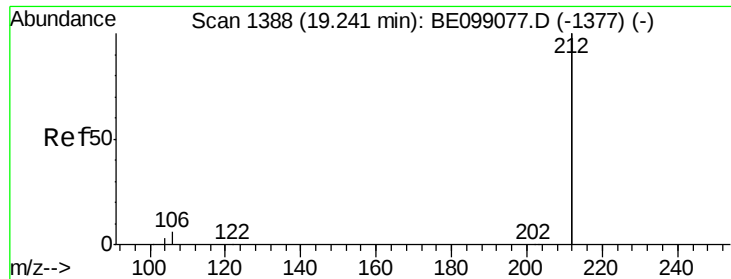
Delta R.T. 0.00 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 19.6  | 16.0       | 24.0  |
| 179     | 16.0  | 12.1       | 18.1  |





#25

Fluoranthene-d10

Concen: 0.380 ng

RT: 19.24 min Scan# 1387

Delta R.T. -0.00 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

Instrument :

BNA\_E

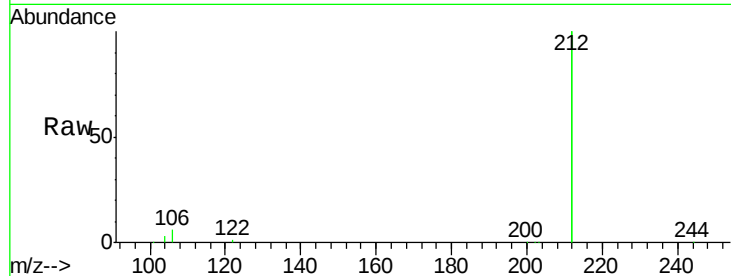
ClientSampleId :

PST-026-SW078-031919

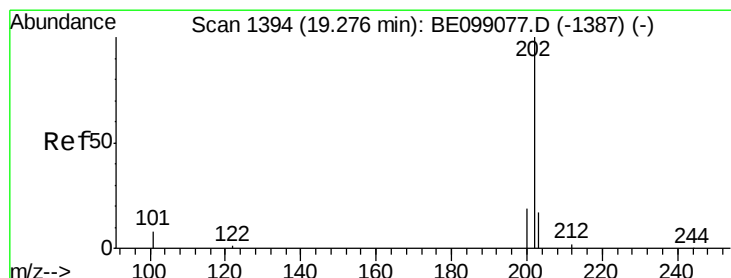
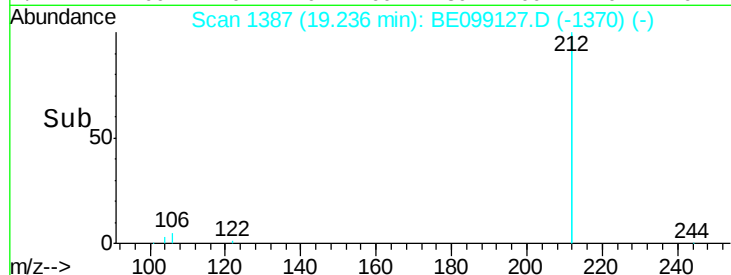
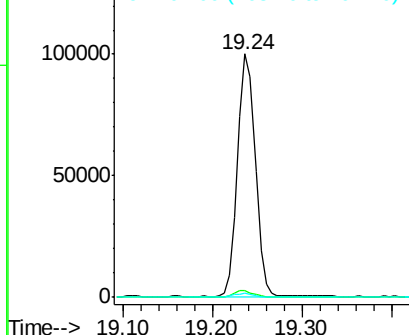
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 212     | 100   | 132999 |       |       |
| 106     | 2.7   |        | 1.8   | 2.8   |
| 104     | 1.5   |        | 1.0   | 1.6   |

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Abundance Ion 212.00 (211.70 to 212.70): E  
Ion 106.00 (105.70 to 106.70): E  
Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.293 ng

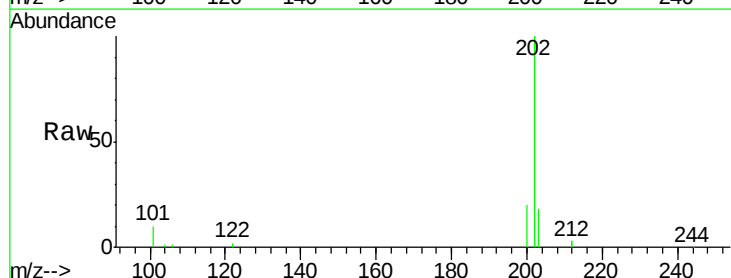
RT: 19.27 min Scan# 1392

Delta R.T. -0.01 min

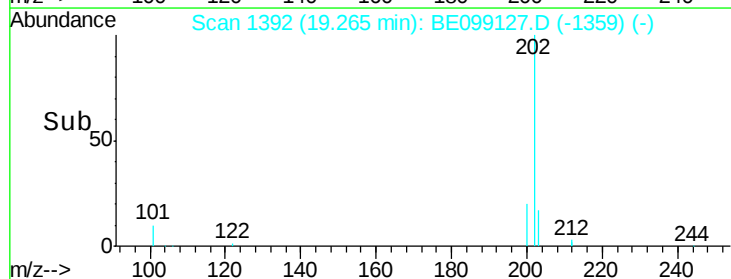
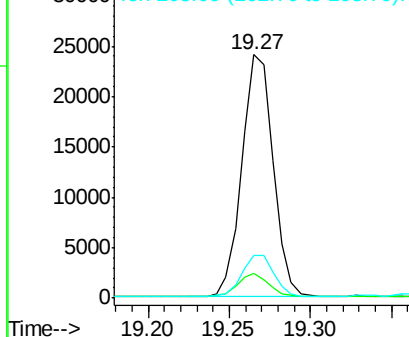
Lab File: BE099127.D

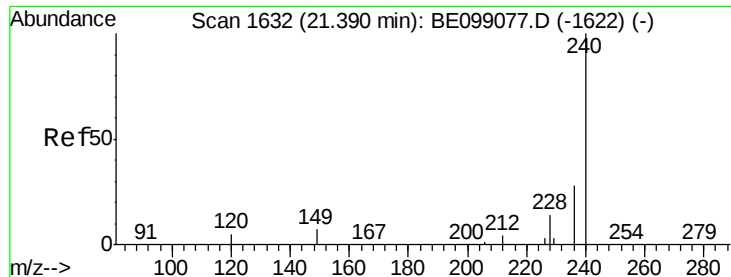
Acq: 24 Mar 2019 1:15

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 32163 |       |       |
| 101     | 9.8   |       | 7.3   | 10.9  |
| 203     | 17.5  |       | 13.4  | 20.2  |



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





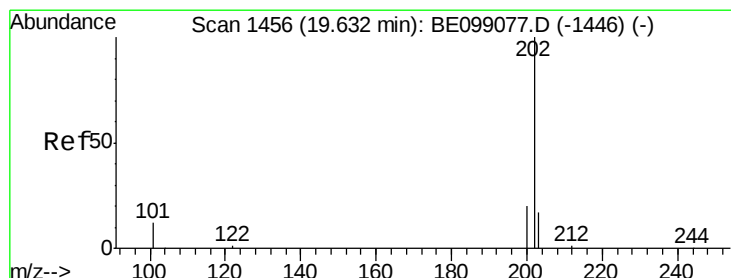
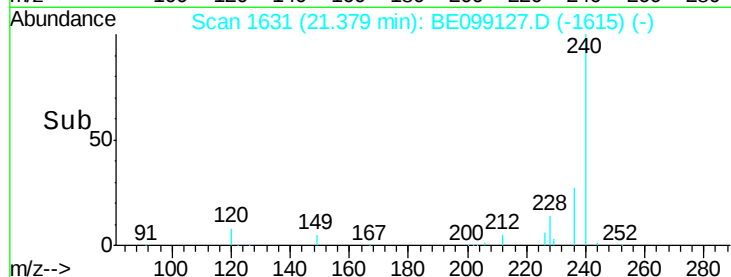
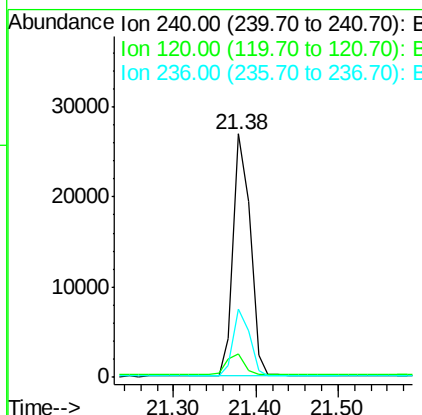
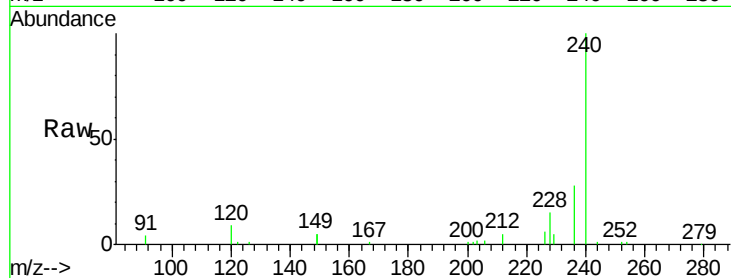
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.38 min Scan# 1631  
Delta R.T. -0.01 min  
Lab File: BE099127.D  
Acq: 24 Mar 2019 1:15

Instrument :  
BNA\_E  
ClientSampleId :  
PST-026-SW078-031919

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.4   | 5.0   | 7.4#  |
| 236     | 27.8  | 22.7  | 34.1  |

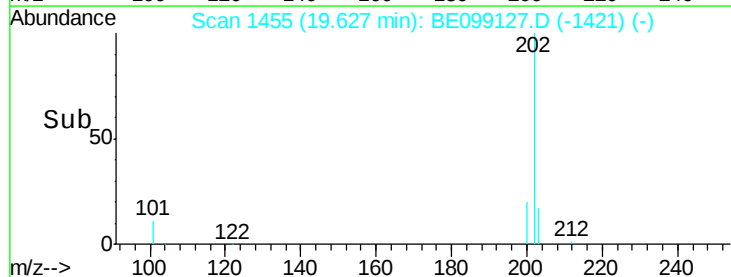
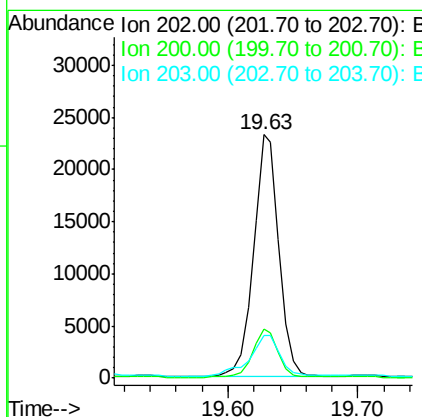
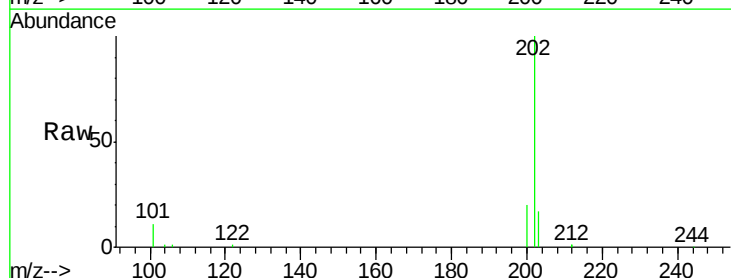
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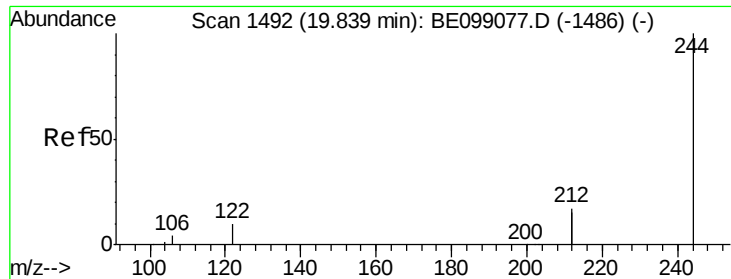
Sohil  
3/25/2019 12:37:22 PM



#28  
Pyrene  
Concen: 0.239 ng  
RT: 19.63 min Scan# 1455  
Delta R.T. -0.00 min  
Lab File: BE099127.D  
Acq: 24 Mar 2019 1:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 19.8  | 17.0  | 25.6  |
| 203     | 20.6  | 14.2  | 21.2  |





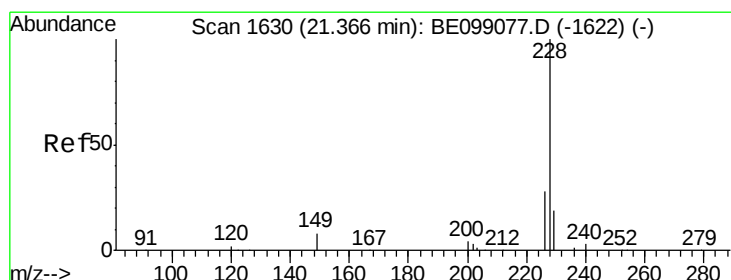
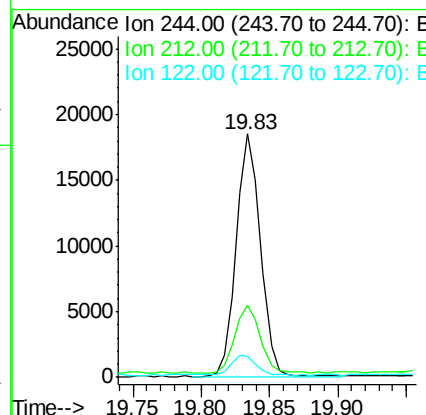
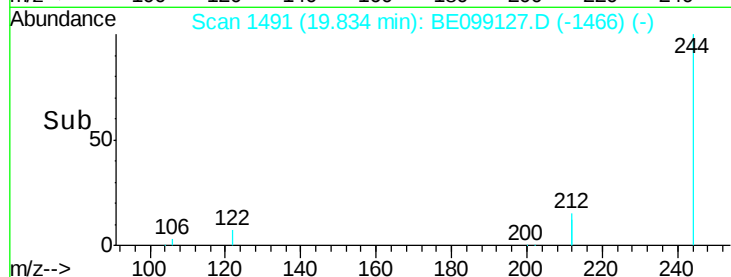
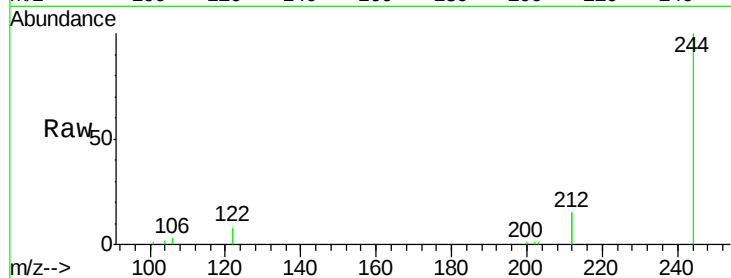
#29  
 Terphenyl-d14  
 Concen: 0.277 ng  
 RT: 19.83 min Scan# 1491  
 Delta R.T. -0.00 min  
 Lab File: BE099127.D  
 Acq: 24 Mar 2019 1:15

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PST-026-SW078-031919

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 29.5  | 29.4  | 44.2  |
| 122     | 8.4   | 7.1   | 10.7  |

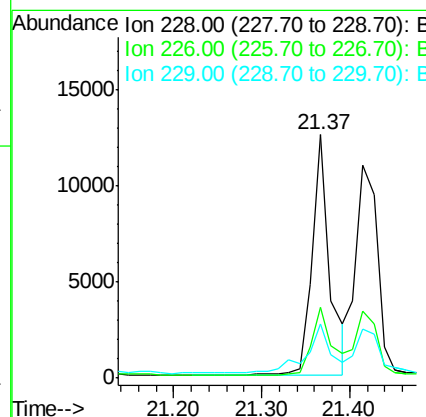
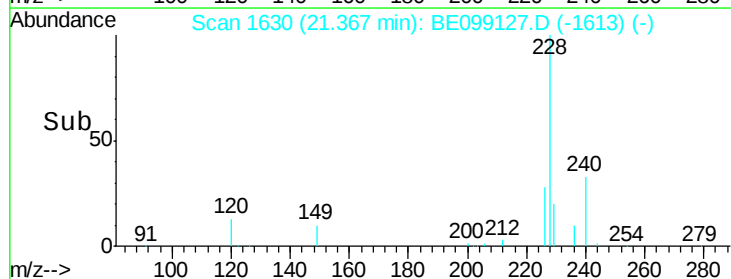
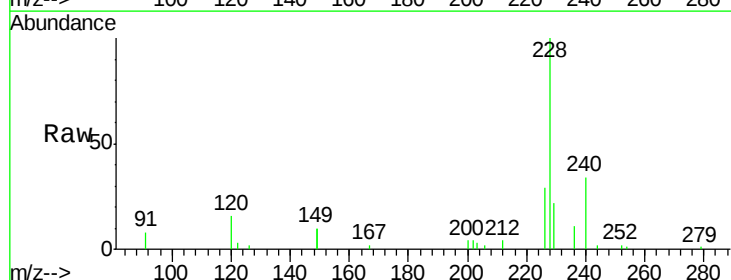
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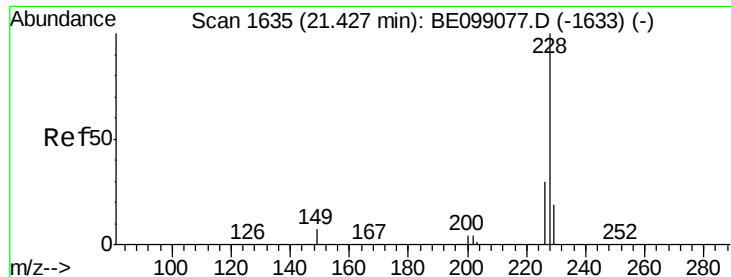
Sohil  
 3/25/2019 12:37:22 PM



#30  
 Benzo(a)anthracene  
 Concen: 0.131 ng  
 RT: 21.37 min Scan# 1630  
 Delta R.T. 0.00 min  
 Lab File: BE099127.D  
 Acq: 24 Mar 2019 1:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.0  | 23.0  | 34.4  |
| 229     | 22.1  | 16.5  | 24.7  |





#31

Chrysene

Concen: 0.137 ng

RT: 21.42 min Scan# 1634

Delta R.T. -0.01 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

Instrument :

BNA\_E

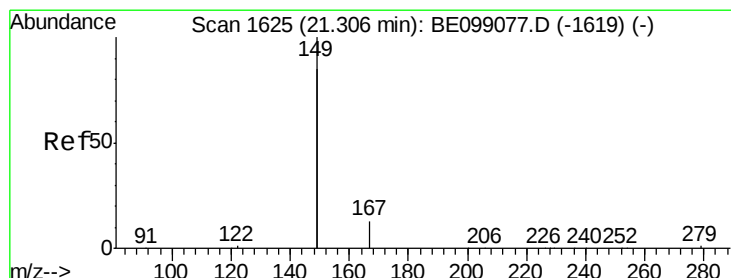
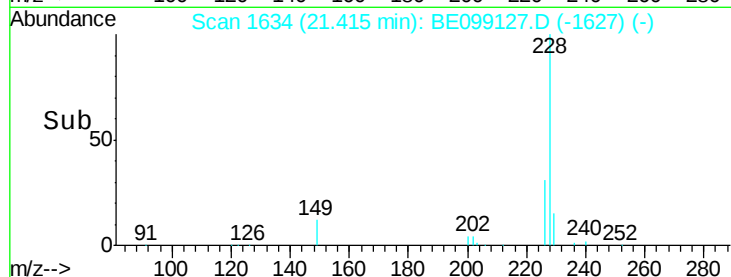
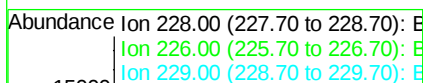
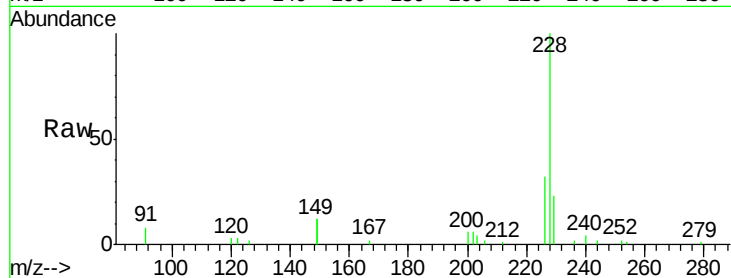
ClientSampleId :

PST-026-SW078-031919

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 18760 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.7  | 23.7  | 35.5  |
| 229       | 23.0  | 16.1  | 24.1  |

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3/25/2019 12:37:22 PM



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.160 ng

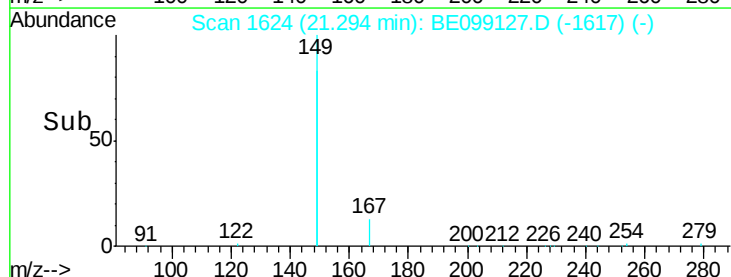
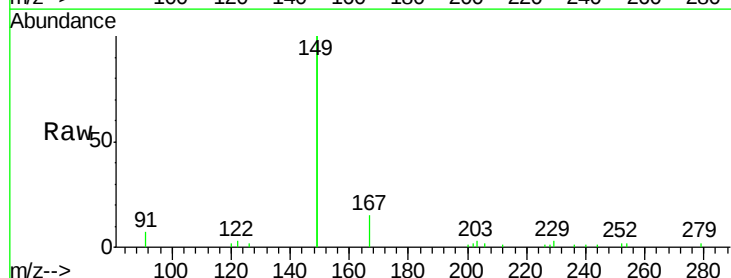
RT: 21.29 min Scan# 1624

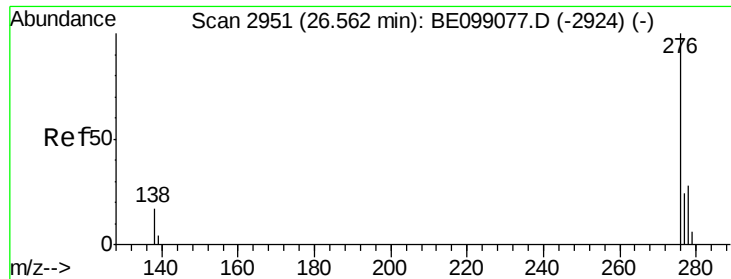
Delta R.T. -0.01 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 28462 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 7.5   | 5.4   | 8.0   |
| 279       | 1.0   | 1.0   | 1.4   |





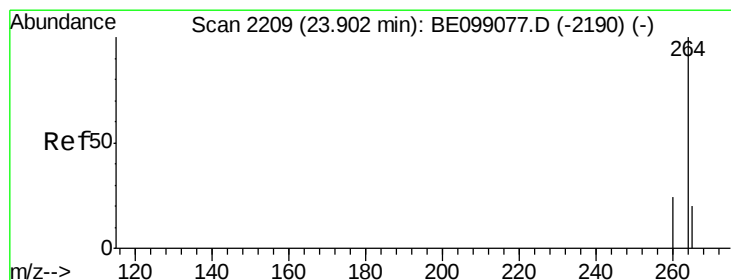
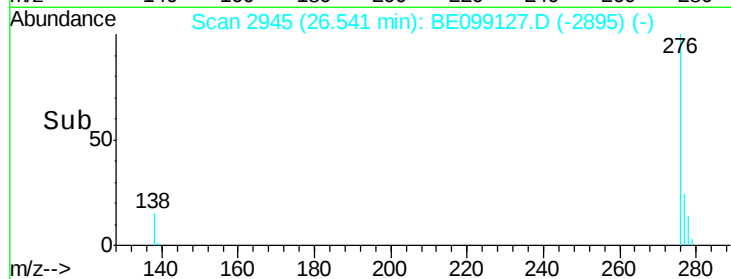
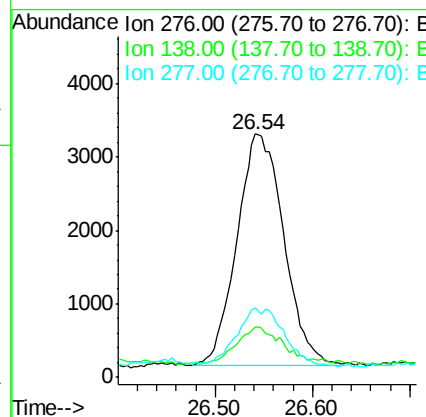
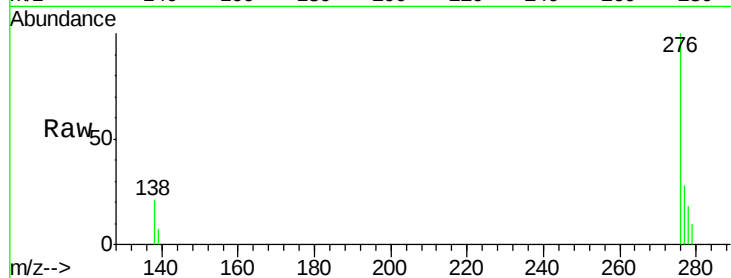
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.072 ng  
RT: 26.54 min Scan# 2945  
Delta R.T. -0.02 min  
Lab File: BE099127.D  
Acq: 24 Mar 2019 1:15

Instrument :  
BNA\_E  
ClientSampleId :  
PST-026-SW078-031919

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 14.8  | 13.8  | 20.8  |
| 277     | 13.6  | 19.5  | 29.3# |

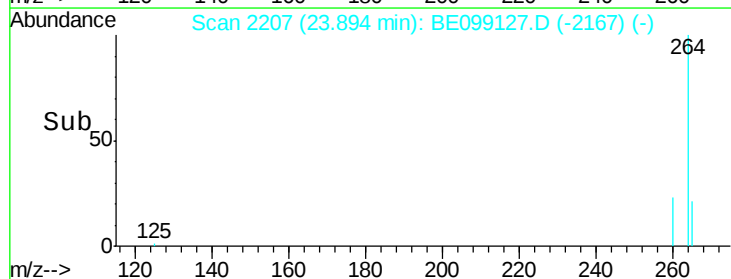
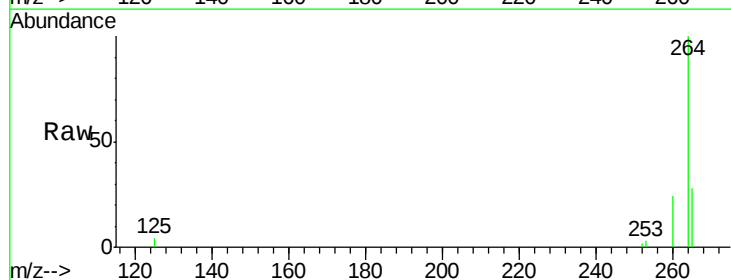
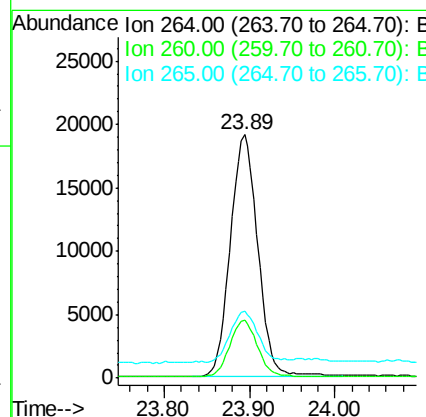
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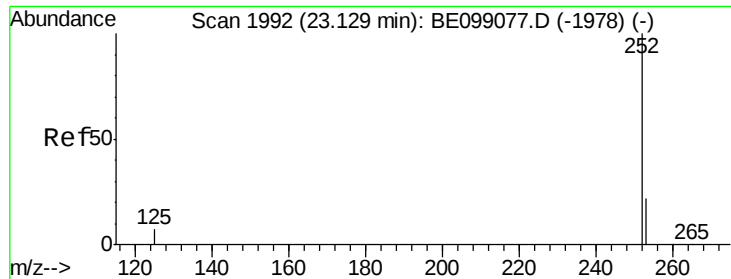
Sohil  
3/25/2019 12:37:22 PM



#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.89 min Scan# 2207  
Delta R.T. -0.01 min  
Lab File: BE099127.D  
Acq: 24 Mar 2019 1:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 21.2  | 31.8  |
| 265     | 27.6  | 24.6  | 36.8  |





#35

Benzo(b)fluoranthene

Concen: 0.165 ng

RT: 23.12 min Scan# 1990

Delta R.T. -0.01 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

Instrument :

BNA\_E

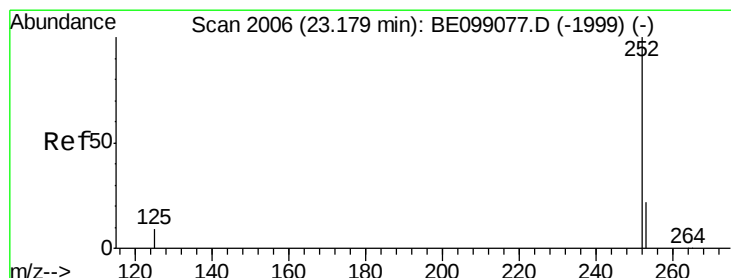
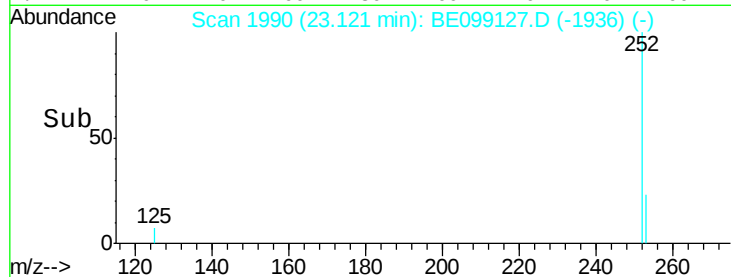
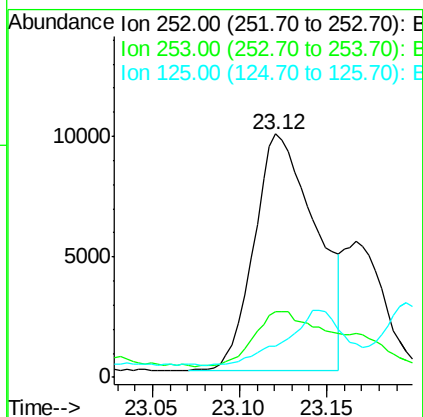
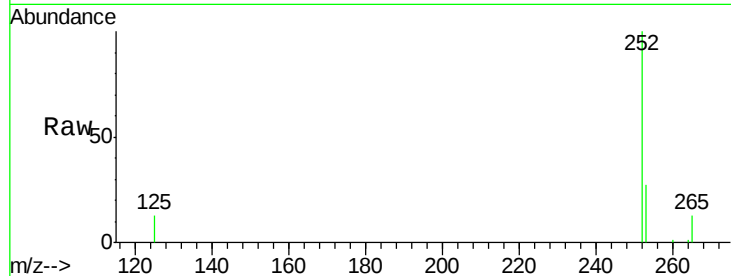
ClientSampleId :

PST-026-SW078-031919

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 24246 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 27.1  | 18.2  | 27.2  |
| 125       | 12.9  | 7.3   | 10.9# |

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#36

Benzo(k)fluoranthene

Concen: 0.062 ng m

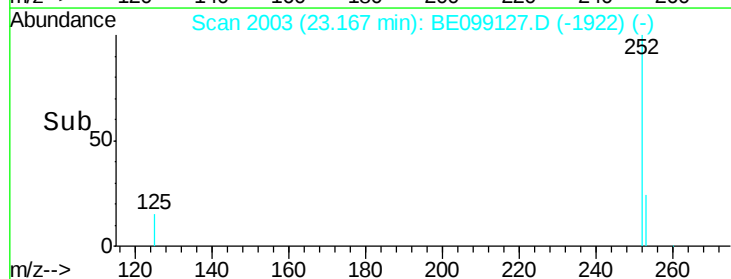
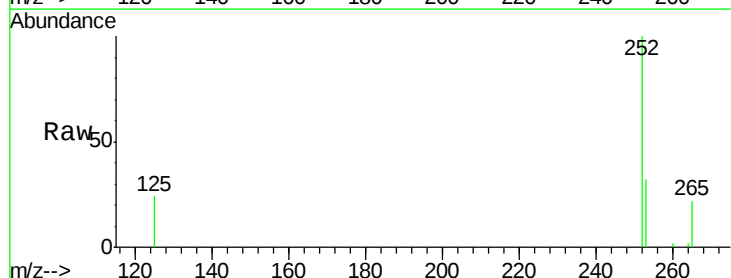
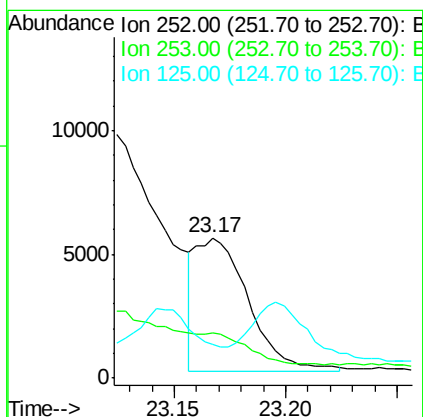
RT: 23.17 min Scan# 2003

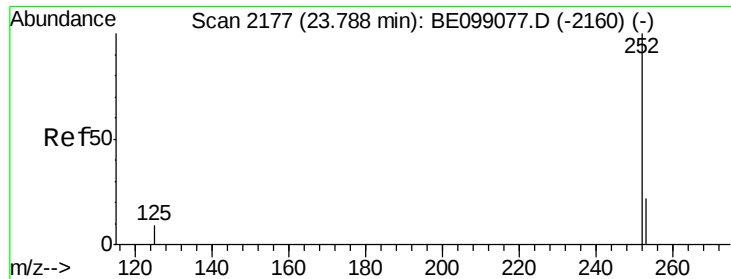
Delta R.T. -0.01 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 8940  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 32.0  | 19.3  | 28.9# |
| 125       | 24.3  | 7.5   | 11.3# |





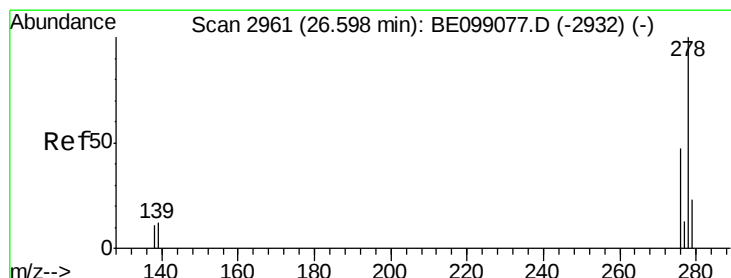
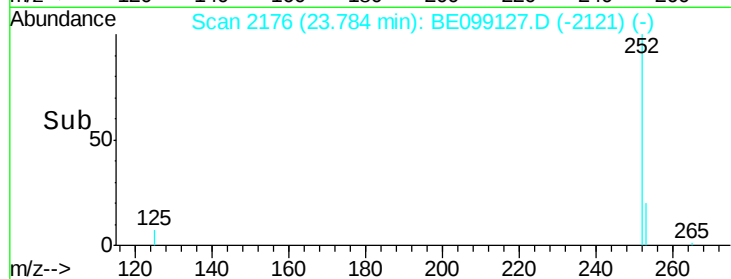
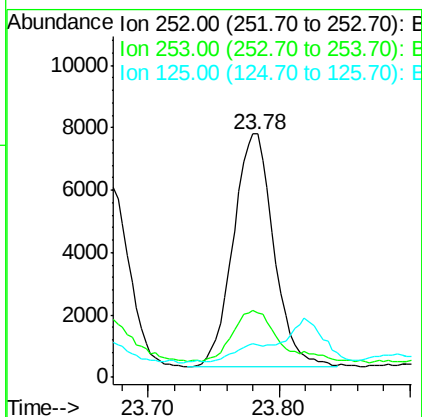
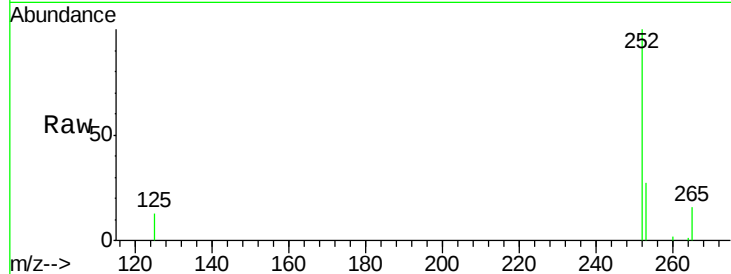
#37  
Benzo(a)pyrene  
Concen: 0.118 ng  
RT: 23.78 min Scan# 2176  
Delta R.T. -0.00 min  
Lab File: BE099127.D  
Acq: 24 Mar 2019 1:15

Instrument :  
BNA\_E  
ClientSampleId :  
PST-026-SW078-031919

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.5  | 19.9  | 29.9  |
| 125     | 13.4  | 9.0   | 13.4  |

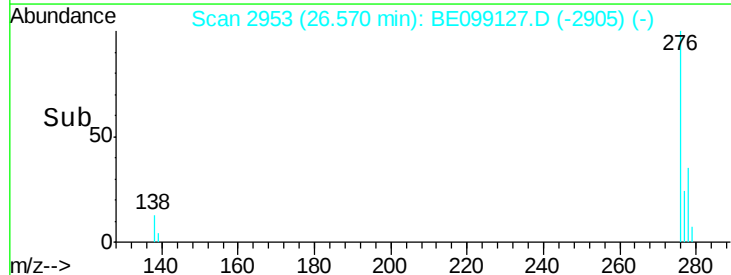
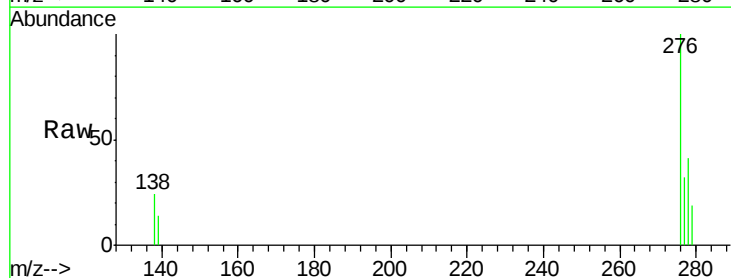
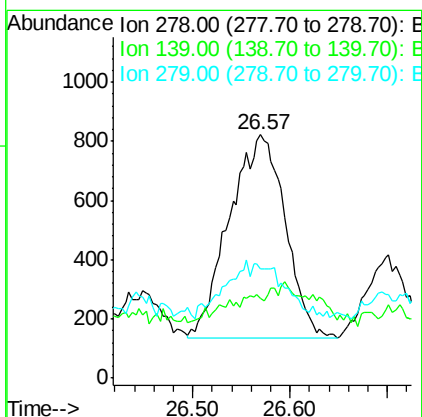
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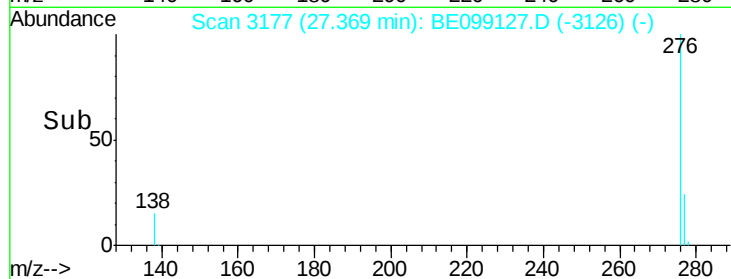
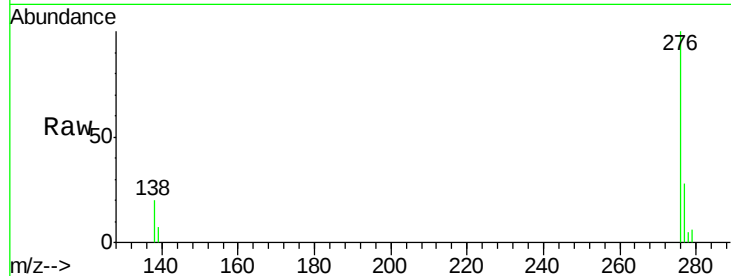
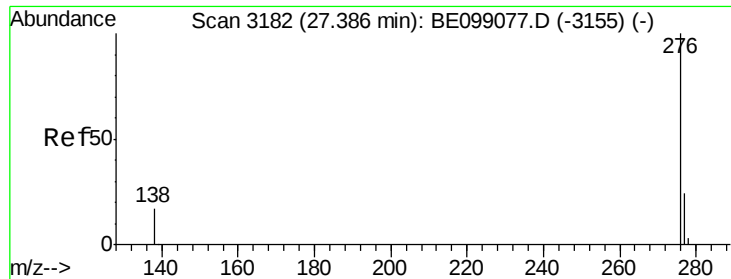
Sohil  
3/25/2019 12:37:22 PM



#38  
Dibenzo(a,h)anthracene  
Concen: 0.021 ng  
RT: 26.57 min Scan# 2953  
Delta R.T. -0.03 min  
Lab File: BE099127.D  
Acq: 24 Mar 2019 1:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 32.9  | 11.8  | 17.6# |
| 279     | 45.1  | 21.1  | 31.7# |





#39

Benzo(a,h,i)perylene

Concen: 0.081 ng

RT: 27.37 min Scan# 3177

Delta R.T. -0.02 min

Lab File: BE099127.D

Acq: 24 Mar 2019 1:15

Instrument :

BNA\_E

ClientSampleId :

PST-026-SW078-031919

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 11007 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 27.7  | 20.4  | 30.6  |
| 138       | 20.1  | 13.6  | 20.4  |

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