

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP062323\  
 Data File : BP015677.D  
 Acq On : 23 Jun 2023 18:19  
 Operator : MA/JU  
 Sample : 03084-17  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 DCFN4

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/26/2023  
 Supervised By :mohammad ahmed 06/27/2023

Quant Time: Jun 23 23:58:44 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP060723.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jun 22 22:01:49 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.081  | 152  | 144213   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.904 | 136  | 532108   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.728 | 164  | 282867   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.492 | 188  | 607699   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.580 | 240  | 622598   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.145 | 264  | 756431   | 20.000 | ng/u1  | 0.01     |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.399  | 96   | 10994m   | 2.823  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.846  | 84   | 99371    | 9.823  | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.246  | 99   | 180015   | 13.549 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.405  | 67   | 126091   | 15.891 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.604  | 132  | 157969   | 16.399 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.804  | 113  | 110558   | 10.139 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.263  | 128  | 73458    | 17.584 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.993  | 143  | 80439    | 16.861 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.546 | 165  | 123545   | 14.196 | ng/u1  | 0.01     |
| 31) 4-Chloroaniline-d4        | 11.075 | 131  | 79160    | 6.337  | ng/u1  | 0.02     |
| 46) Dimethylphthalate-d6      | 14.134 | 166  | 393644   | 17.648 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.422 | 160  | 453087   | 18.576 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.981 | 143  | 42755    | 10.704 | ng/u1  | 0.03     |
| 60) Fluorene-d10              | 15.722 | 176  | 332457   | 17.675 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.875 | 200  | 44241    | 11.492 | ng/u1  | 0.01     |
| 73) Anthracene-d10            | 17.592 | 188  | 508387   | 18.387 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.822 | 212  | 667963   | 20.045 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.974 | 264  | 727589   | 19.170 | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        | Qvalue |          |
| 30) Naphthalene               | 10.957 | 128  | 41125    | 1.426  | ng/u1  | 99       |
| 50) Acenaphthylene            | 14.457 | 152  | 36219    | 1.341  | ng/u1  | 99       |
| 72) Phenanthrene              | 17.533 | 178  | 112568   | 3.452  | ng/u1  | 98       |
| 74) Anthracene                | 17.628 | 178  | 34384    | 1.039  | ng/u1  | 97       |
| 80) Fluoranthene              | 19.492 | 202  | 392453   | 9.669  | ng/u1  | 99       |
| 82) Pyrene                    | 19.845 | 202  | 326505   | 7.775  | ng/u1  | 98       |
| 85) Benzo(a)anthracene        | 21.568 | 228  | 240190   | 5.519  | ng/u1  | 96       |
| 87) Chrysene                  | 21.621 | 228  | 256543   | 6.236  | ng/u1  | 97       |
| 90) Benzo(b)fluoranthene      | 23.357 | 252  | 415012   | 8.500  | ng/u1# | 94       |
| 91) Benzo(k)fluoranthene      | 23.404 | 252  | 113668m  | 2.408  | ng/u1  |          |
| 93) Benzo(a)pyrene            | 24.027 | 252  | 245666   | 5.771  | ng/u1  | 98       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.856 | 276  | 211656   | 3.842  | ng/u1# | 94       |
| 95) Dibenzo(a,h)anthracene    | 26.856 | 278  | 56719    | 1.264  | ng/u1# | 68       |
| 96) Benzo(g,h,i)perylene      | 27.692 | 276  | 204164   | 4.497  | ng/u1  | 99       |
| -----                         |        |      |          |        |        |          |

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

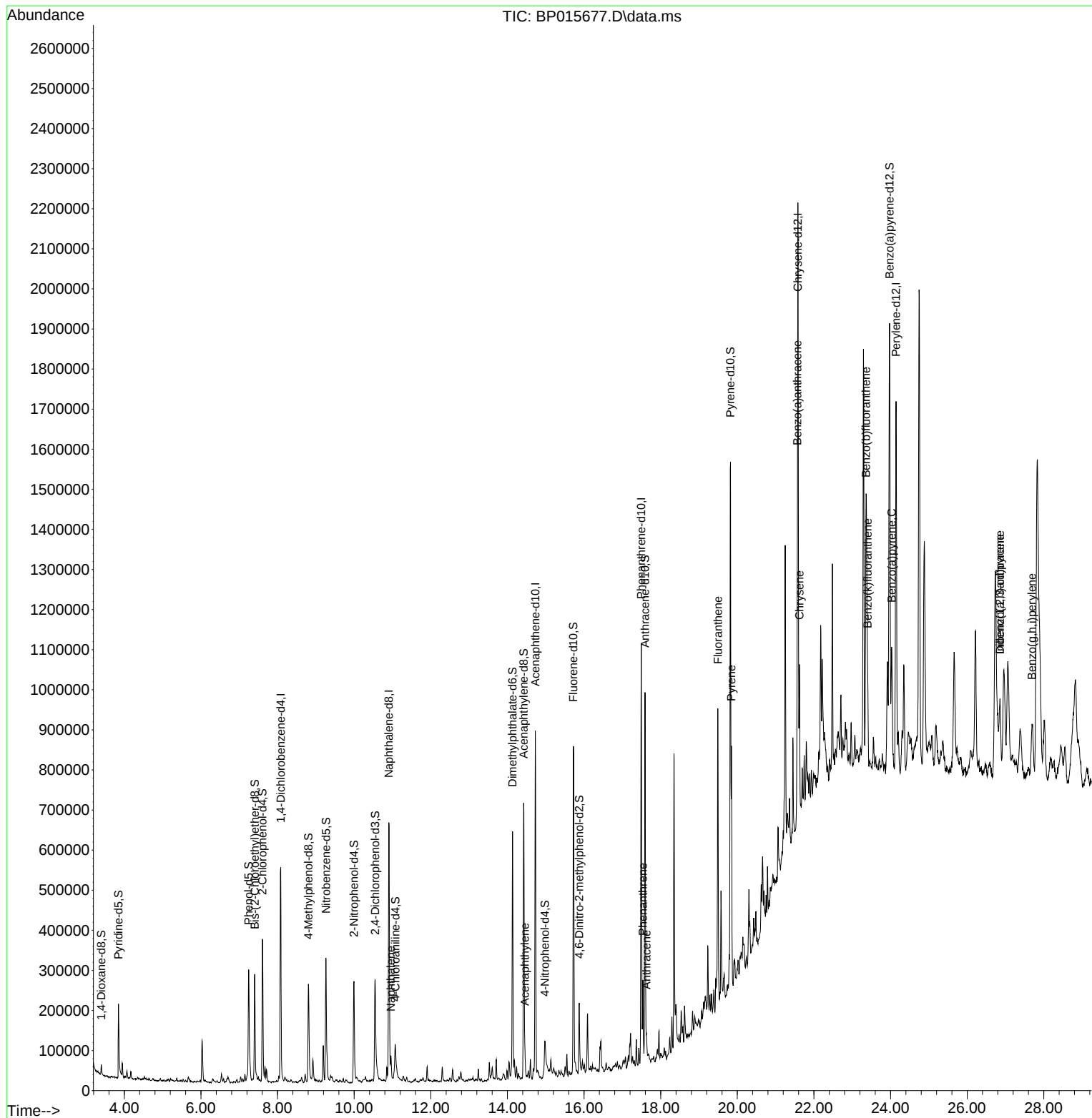
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Data File : BP015677.D  
Acq On : 23 Jun 2023 18:19  
Operator : MA/JU  
Sample : 03084-17  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

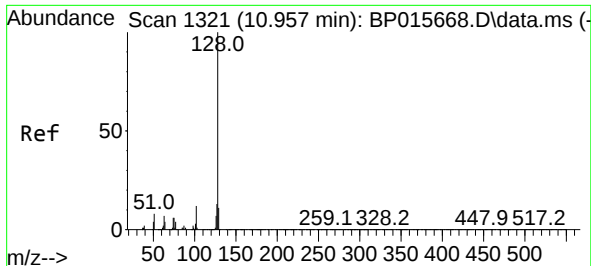
Instrument :  
BNA\_P  
ClientSampleId :  
DCFN4

Quant Time: Jun 23 23:58:44 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP060723.MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu Jun 22 22:01:49 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 06/26/2023  
Supervised By :mohammad ahmed 06/27/2023





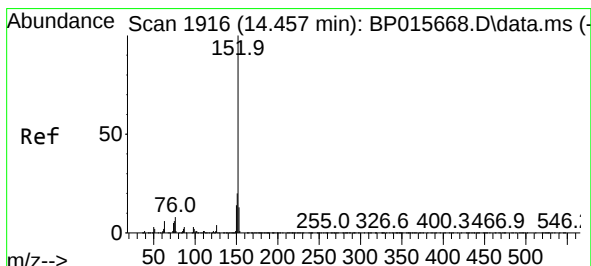
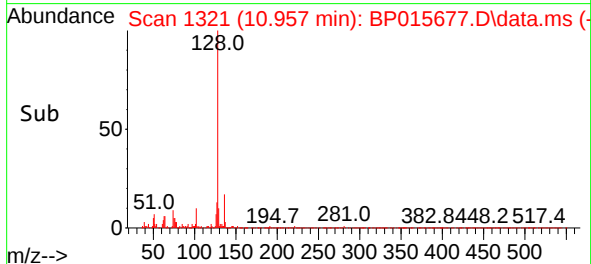
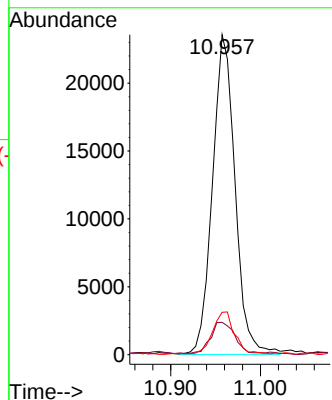
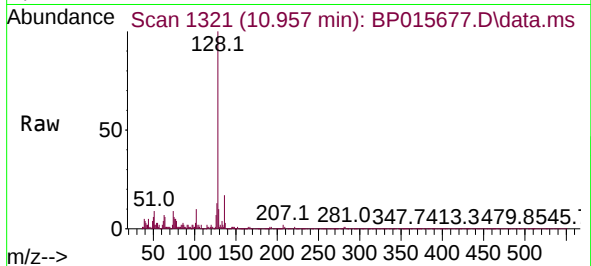
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Naphthalene  
Concen: 1.426 ng/ul  
RT: 10.957 min Scan# 1321  
Delta R.T. 0.000 min  
Lab File: BP015677.D  
Acq: 23 Jun 2023 18:19

Instrument :  
BNA\_P  
ClientSampleId :  
DCFN4

Tgt Ion:128 Resp: 41125  
Ion Ratio Lower Upper  
128 100  
129 10.1 8.6 13.0  
127 13.2 10.5 15.7

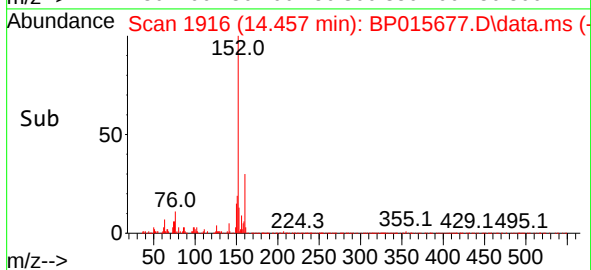
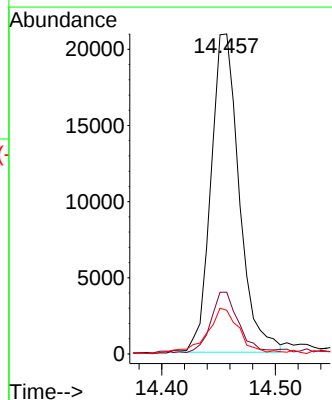
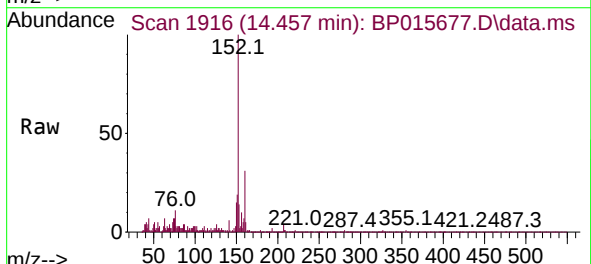
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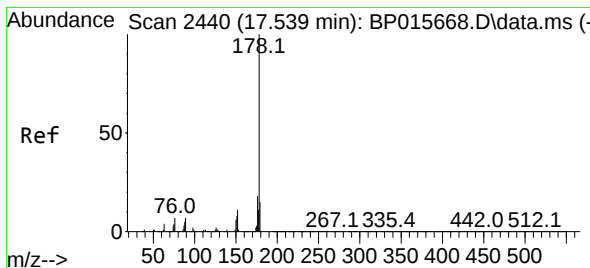
Reviewed By :Yogesh Patel 06/26/2023  
Supervised By :mohammad ahmed 06/27/2023



#50  
Acenaphthylene  
Concen: 1.341 ng/ul  
RT: 14.457 min Scan# 1916  
Delta R.T. 0.006 min  
Lab File: BP015677.D  
Acq: 23 Jun 2023 18:19

Tgt Ion:152 Resp: 36219  
Ion Ratio Lower Upper  
152 100  
151 19.3 16.0 24.0  
153 13.6 10.6 15.8





#72

Phenanthrene

Concen: 3.452 ng/ul

RT: 17.533 min Scan# 2440

Delta R.T. 0.000 min

Lab File: BP015677.D

Acq: 23 Jun 2023 18:19

Instrument :

BNP\_P

ClientSampleId :

DCFN4

Tgt Ion:178 Resp: 11256

Ion Ratio Lower Upper

178 100

179 17.1 12.3 18.5

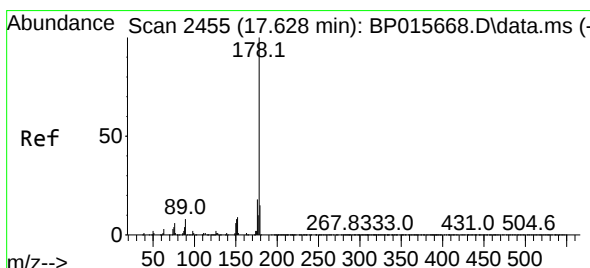
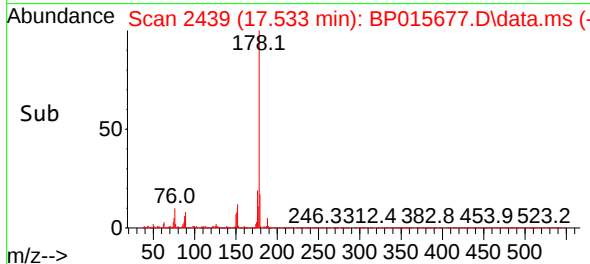
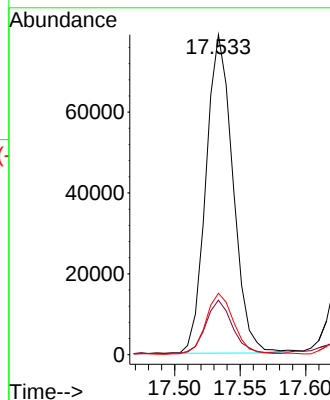
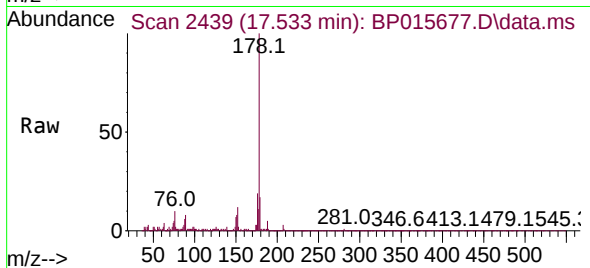
176 19.2 15.4 23.0

Manual Integrations

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Reviewed By :Yogesh Patel 06/26/2023

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#74

Anthracene

Concen: 1.039 ng/ul

RT: 17.628 min Scan# 2455

Delta R.T. 0.000 min

Lab File: BP015677.D

Acq: 23 Jun 2023 18:19

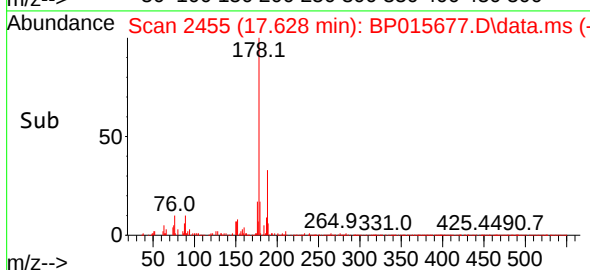
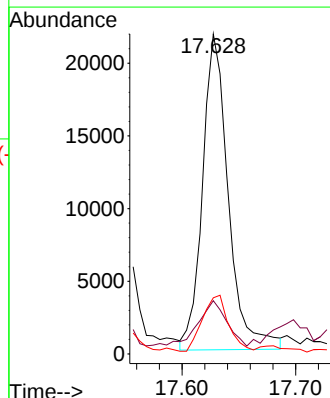
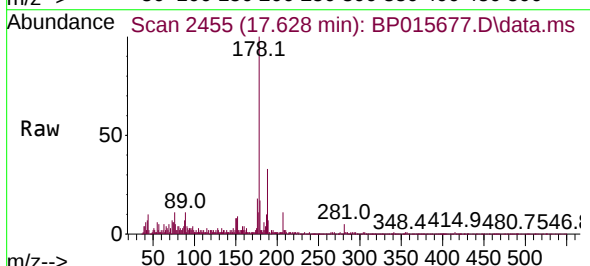
Tgt Ion:178 Resp: 34384

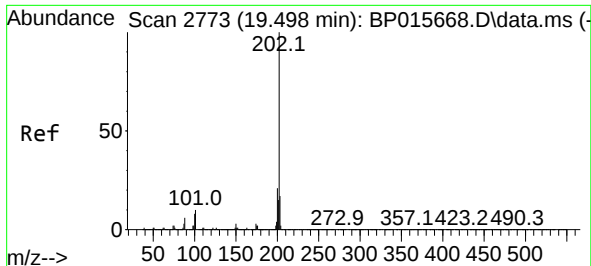
Ion Ratio Lower Upper

178 100

179 16.6 12.4 18.6

176 17.5 15.0 22.4





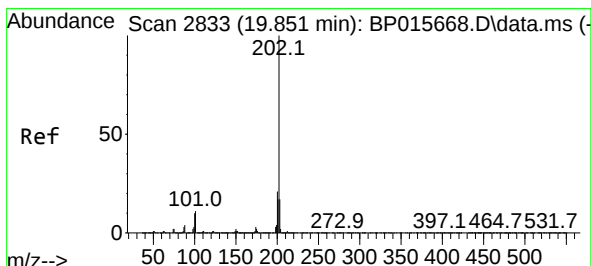
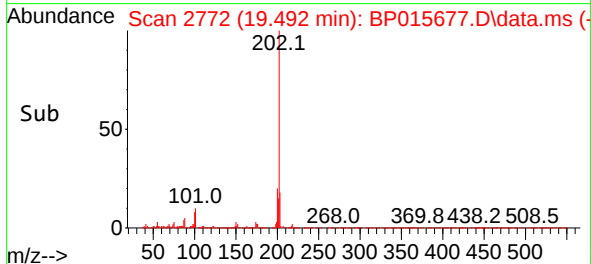
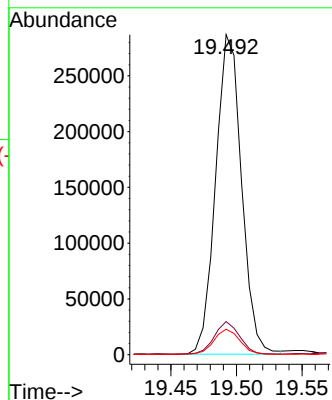
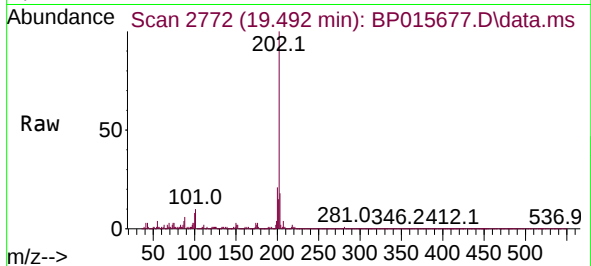
#80  
Fluoranthene  
Concen: 9.669 ng/u1  
RT: 19.492 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BP015677.D  
Acq: 23 Jun 2023 18:19

Instrument :  
BNA\_P  
ClientSampleId :  
DCFN4

Tgt Ion:202 Resp: 39245  
Ion Ratio Lower Upper  
202 100  
101 10.4 8.6 13.0  
100 7.9 6.6 9.8

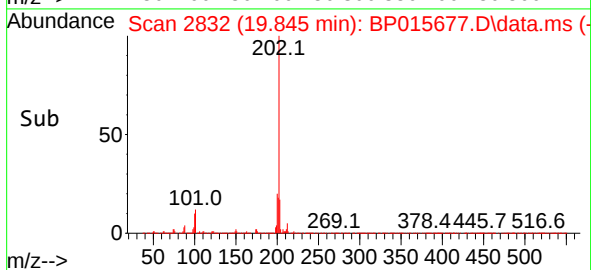
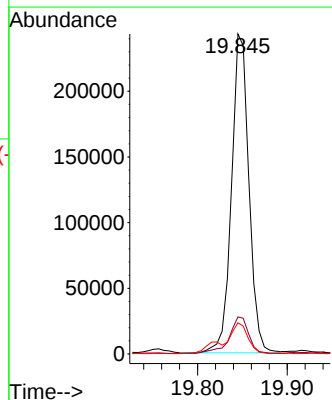
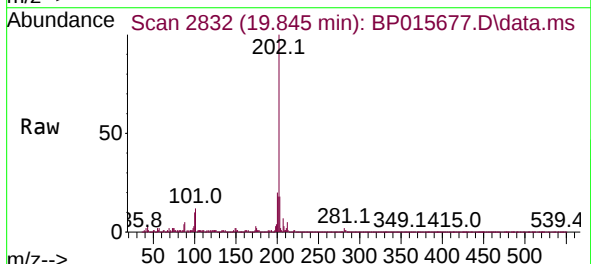
Manual Integrations  
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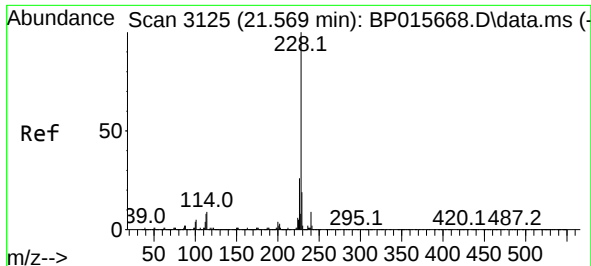
Reviewed By :Yogesh Patel 06/26/2023  
Supervised By :mohammad ahmed 06/27/2023



#82  
Pyrene  
Concen: 7.775 ng/u1  
RT: 19.845 min Scan# 2832  
Delta R.T. 0.000 min  
Lab File: BP015677.D  
Acq: 23 Jun 2023 18:19

Tgt Ion:202 Resp: 326505  
Ion Ratio Lower Upper  
202 100  
101 11.6 9.9 14.9  
100 9.7 8.4 12.6





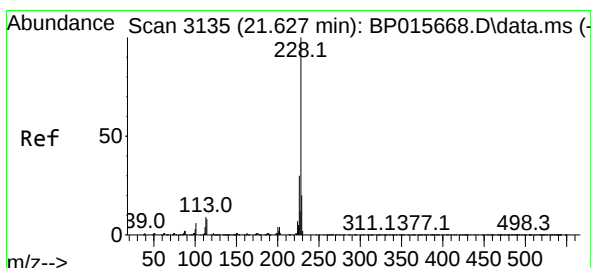
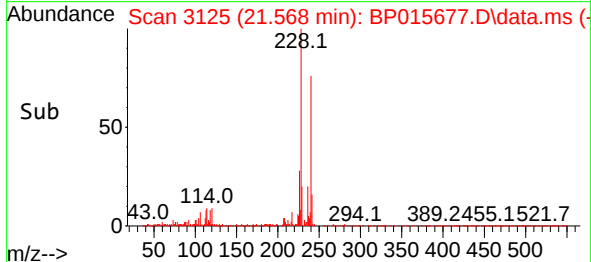
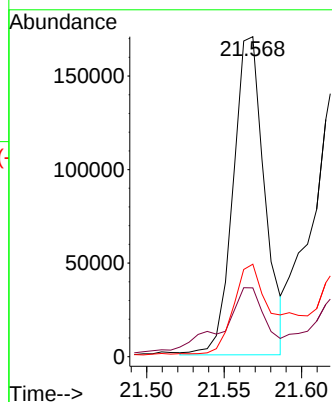
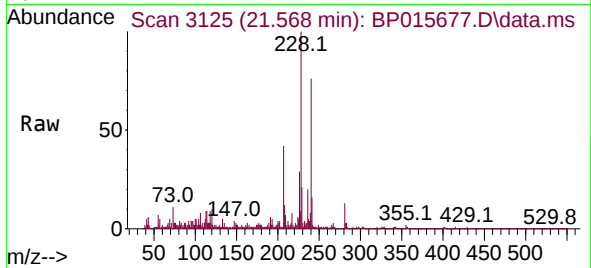
#85  
Benzo(a)anthracene  
Concen: 5.519 ng/u1  
RT: 21.568 min Scan# 3125  
Delta R.T. 0.006 min  
Lab File: BP015677.D  
Acq: 23 Jun 2023 18:19

Instrument :  
BNA\_P  
ClientSampleId :  
DCFN4

Tgt Ion:228 Resp: 240190  
Ion Ratio Lower Upper  
228 100  
229 21.5 15.8 23.6  
226 28.9 21.8 32.6

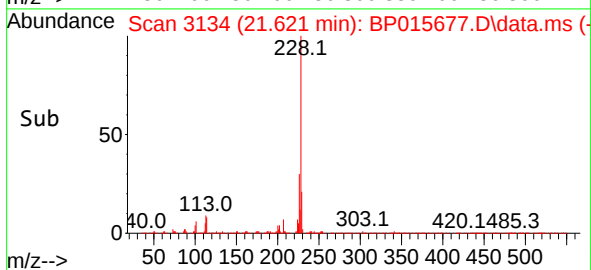
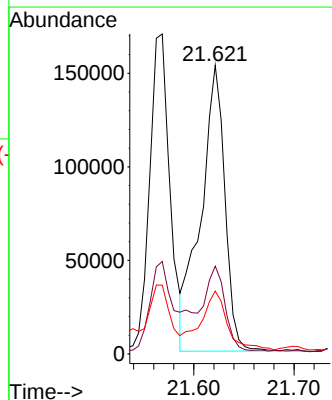
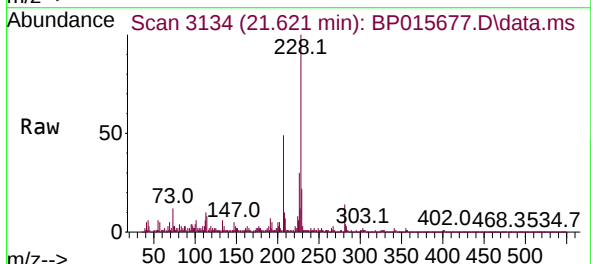
Manual Integrations  
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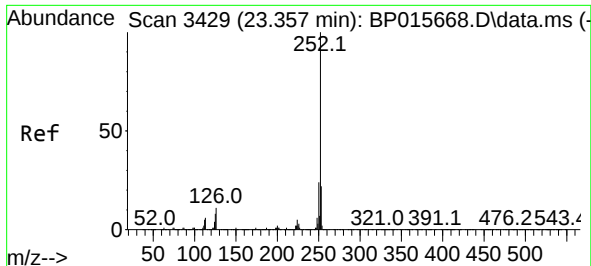
Reviewed By :Yogesh Patel 06/26/2023  
Supervised By :mohammad ahmed 06/27/2023



#87  
Chrysene  
Concen: 6.236 ng/u1  
RT: 21.621 min Scan# 3134  
Delta R.T. 0.000 min  
Lab File: BP015677.D  
Acq: 23 Jun 2023 18:19

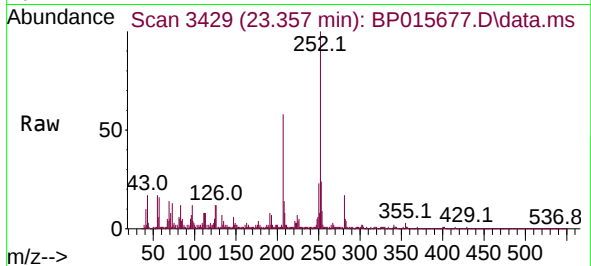
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Ion Ratio Lower Upper  
228 100  
226 30.4 23.9 35.9  
229 21.8 15.1 22.7





#90  
Benzo(b)fluoranthene  
Concen: 8.500 ng/ul  
RT: 23.357 min Scan# 3429  
Delta R.T. 0.012 min  
Lab File: BP015677.D  
Acq: 23 Jun 2023 18:19

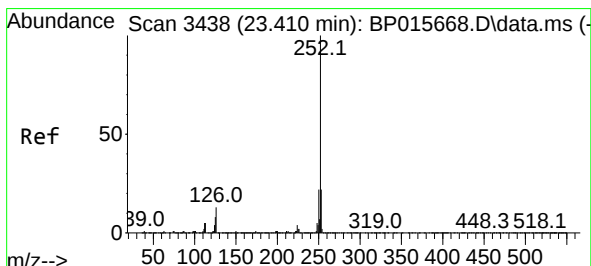
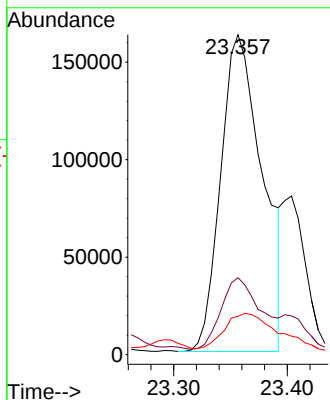
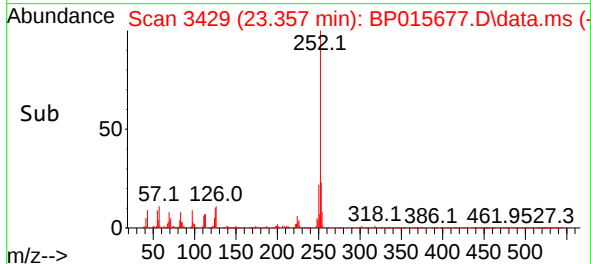
Instrument :  
BNA\_P  
ClientSampleId :  
DCFN4



Tgt Ion:252 Resp: 415012  
Ion Ratio Lower Upper  
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125 12.0 7.3 10.9

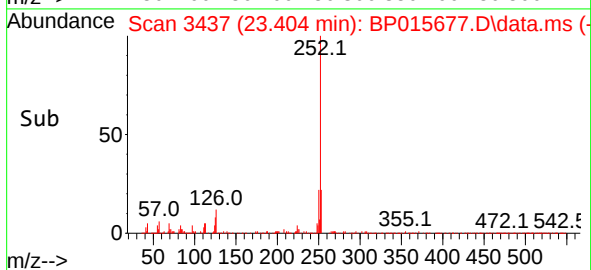
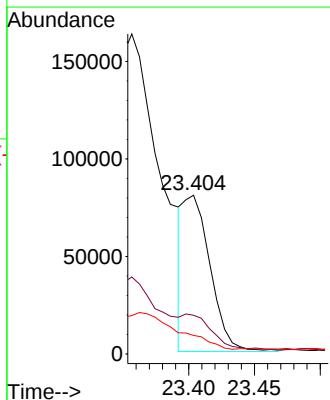
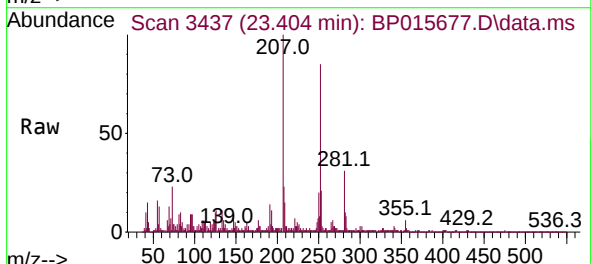
Manual Integrations  
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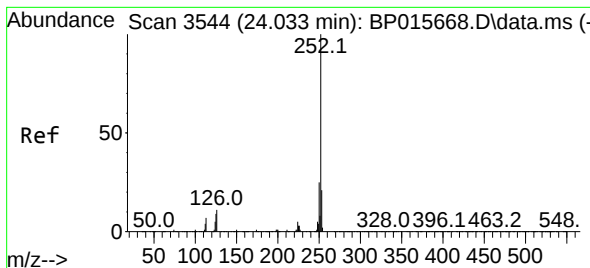
Reviewed By :Yogesh Patel 06/26/2023  
Supervised By :mohammad ahmed 06/27/2023



#91  
Benzo(k)fluoranthene  
Concen: 2.408 ng/ul m  
RT: 23.404 min Scan# 3437  
Delta R.T. 0.006 min  
Lab File: BP015677.D  
Acq: 23 Jun 2023 18:19

Tgt Ion:252 Resp: 113668  
Ion Ratio Lower Upper  
252 100  
253 24.4 17.7 26.5  
125 11.7 7.3 10.9





#93

Benzo(a)pyrene

Concen: 5.771 ng/ul

RT: 24.027 min Scan# 3

Delta R.T. 0.006 min

Lab File: BP015677.D

Acq: 23 Jun 2023 18:19

Instrument :

BNA\_P

ClientSampleId :

DCFN4

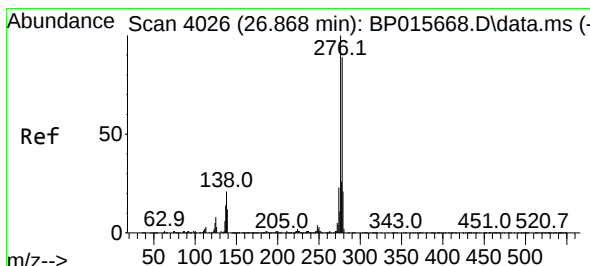
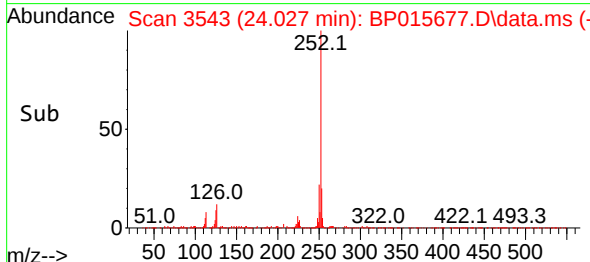
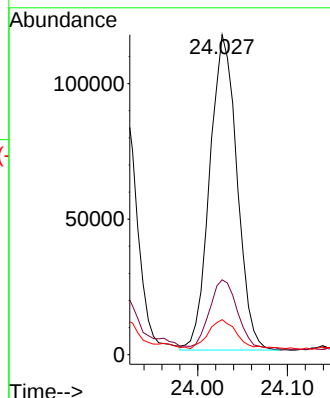
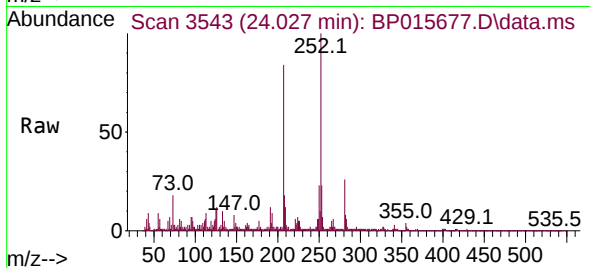
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|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 24566 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.4  | 17.8  | 26.6  |
| 125       | 11.0  | 8.1   | 12.1  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/26/2023

Supervised By :mohammad ahmed 06/27/2023



#94

Indeno(1,2,3-cd)pyrene

Concen: 3.842 ng/ul

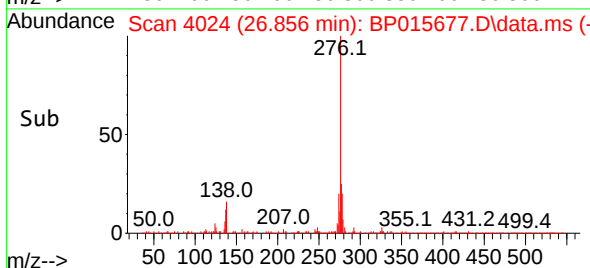
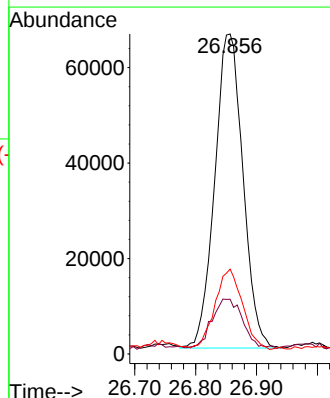
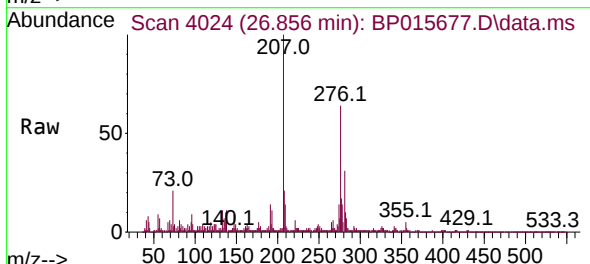
RT: 26.856 min Scan# 4024

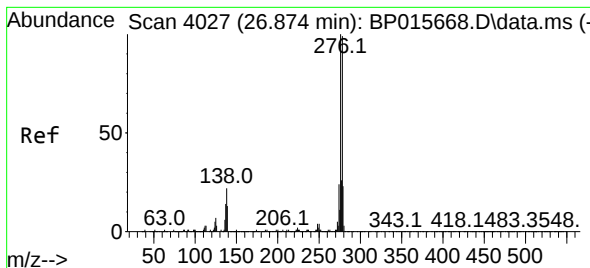
Delta R.T. 0.018 min

Lab File: BP015677.D

Acq: 23 Jun 2023 18:19

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 211656 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 17.1  | 17.3  | 25.9#  |
| 277       | 26.5  | 20.2  | 30.2   |





#95

Dibenzo(a,h)anthracene

Concen: 1.264 ng/ul

RT: 26.856 min Scan# 4027

Delta R.T. 0.006 min

Lab File: BP015677.D

Acq: 23 Jun 2023 18:19

Instrument :

BNP\_P

ClientSampleId :

DCFN4

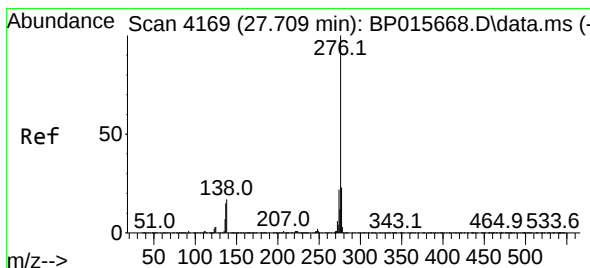
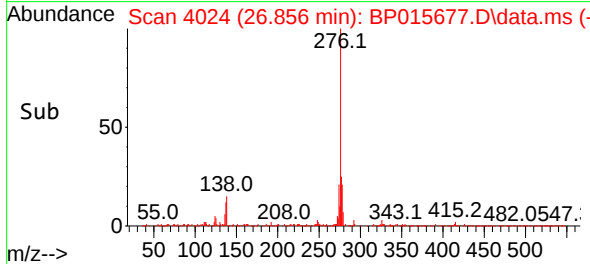
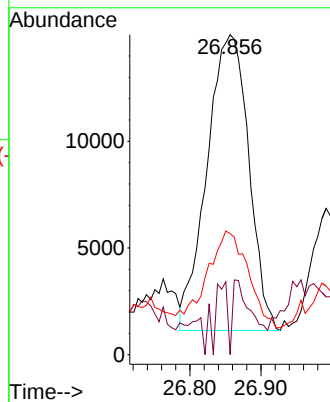
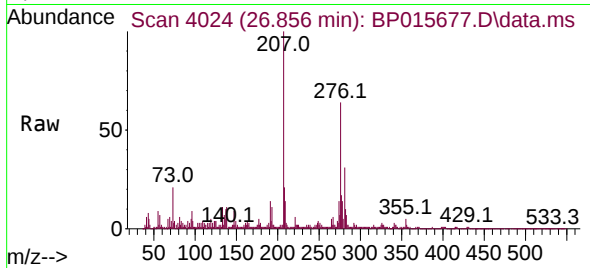
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 56719 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 0.0   | 11.4  | 17.0  |
| 279       | 37.9  | 18.7  | 28.1  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/26/2023

Supervised By :mohammad ahmed 06/27/2023



#96

Benzo(g,h,i)perylene

Concen: 4.497 ng/ul

RT: 27.692 min Scan# 4166

Delta R.T. 0.012 min

Lab File: BP015677.D

Acq: 23 Jun 2023 18:19

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 204164 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 20.3  | 15.6  | 23.4   |
| 277       | 24.3  | 19.0  | 28.6   |

