

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN111523\  
 Data File : BN028789.D  
 Acq On : 19 Nov 2023 23:00  
 Operator : MA/JU  
 Sample : PB157270BS  
 Misc :  
 ALS Vial : 94 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SLCS270

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/20/2023  
 Supervised By :mohammad ahmed 11/20/2023

Quant Time: Nov 20 03:27:55 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN110923.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 20 01:23:26 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.845  | 152  | 5796m    | 0.400 | ng/ul  | 0.05     |
| 4) Naphthalene-d8           | 10.490 | 136  | 16629m   | 0.400 | ng/ul  | 0.00     |
| 9) Acenaphthene-d10         | 14.316 | 164  | 11412    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.085 | 188  | 16862    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.289 | 240  | 14453    | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.566 | 264  | 15017    | 0.400 | ng/ul  | #-0.01   |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.116  | 96   | 5993m    | 0.936 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.101 | 152  | 8019     | 0.320 | ng/ul  | -0.01    |
| 18) Fluoranthene-d10        | 19.112 | 212  | 26521    | 0.570 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       |        | Qvalue   |
| 2) 1,4-Dioxane              | 3.150  | 88   | 15002m   | 2.119 | ng/ul  |          |
| 5) Naphthalene              | 10.534 | 128  | 17673    | 0.379 | ng/ul# | 95       |
| 7) 2-Methylnaphthalene      | 12.178 | 142  | 7784     | 0.254 | ng/ul  | 96       |
| 8) 1-Methylnaphthalene      | 12.360 | 142  | 12325    | 0.395 | ng/ul  | 99       |
| 10) Acenaphthylene          | 14.043 | 152  | 21373    | 0.375 | ng/ul  | 99       |
| 11) Acenaphthene            | 14.381 | 153  | 17900    | 0.427 | ng/ul  | 99       |
| 12) Fluorene                | 15.389 | 166  | 16130    | 0.331 | ng/ul  | 100      |
| 14) Pentachlorophenol       | 16.735 | 266  | 3056     | 0.755 | ng/ul  | 99       |
| 15) Phenanthrene            | 17.123 | 178  | 24338    | 0.470 | ng/ul  | 98       |
| 16) Anthracene              | 17.233 | 178  | 15162    | 0.319 | ng/ul  | 96       |
| 19) Fluoranthene            | 19.140 | 202  | 29922    | 0.487 | ng/ul  | 98       |
| 20) Pyrene                  | 19.508 | 202  | 33728    | 0.529 | ng/ul  | 98       |
| 21) Benzo(a)anthracene      | 21.275 | 228  | 18759    | 0.328 | ng/ul  | 98       |
| 22) Chrysene                | 21.325 | 228  | 24560    | 0.440 | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 22.876 | 252  | 22398    | 0.397 | ng/ul  | 87       |
| 25) Benzo(k)fluoranthene    | 22.923 | 252  | 26463    | 0.448 | ng/ul# | 91       |
| 26) Benzo(a)pyrene          | 23.470 | 252  | 22737    | 0.427 | ng/ul# | 74       |
| 27) Indeno(1,2,3-cd)pyrene  | 25.914 | 276  | 28993    | 0.491 | ng/ul  | 99       |
| 28) Dibenzo(a,h)anthracene  | 25.937 | 278  | 22120    | 0.469 | ng/ul  | 94       |
| 29) Benzo(g,h,i)perylene    | 26.618 | 276  | 25467    | 0.526 | ng/ul  | 97       |
| -----                       |        |      |          |       |        |          |

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

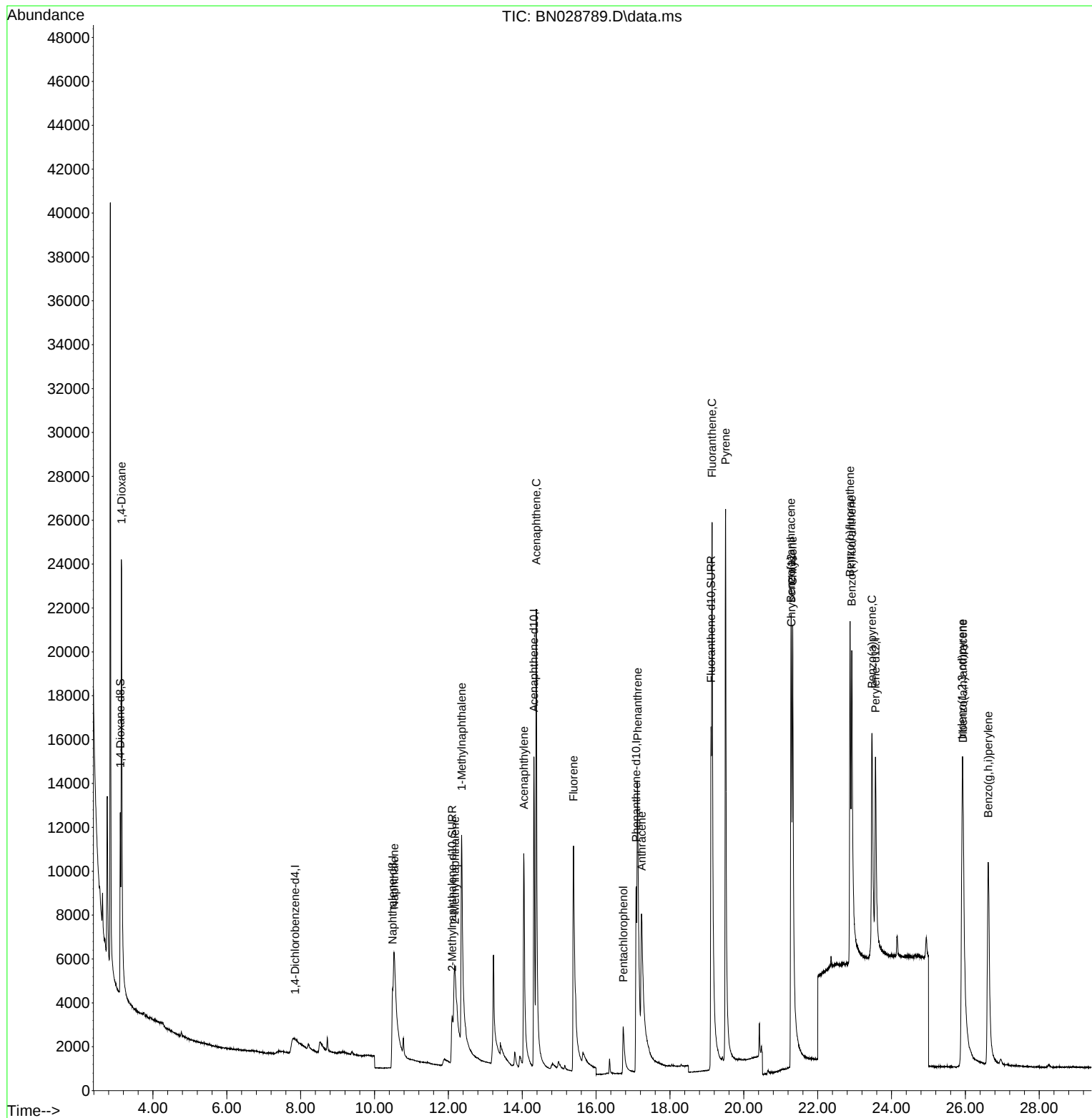
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN111523\  
Data File : BN028789.D  
Acq On : 19 Nov 2023 23:00  
Operator : MA/JU  
Sample : PB157270BS  
Misc :  
ALS Vial : 94 Sample Multiplier: 1

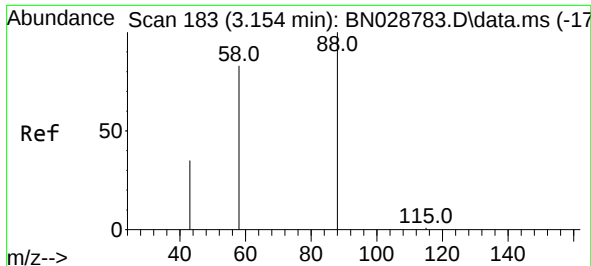
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS270

Quant Time: Nov 20 03:27:55 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-SIM-BN110923.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 20 01:23:26 2023  
Response via : Initial Calibration

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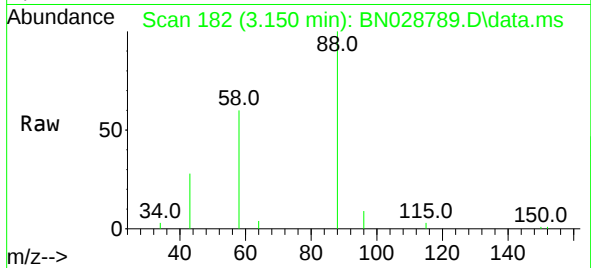
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023





#2  
1,4-Dioxane  
Concen: 2.119 ng/ul m  
RT: 3.150 min Scan# 11  
Delta R.T. -0.004 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00

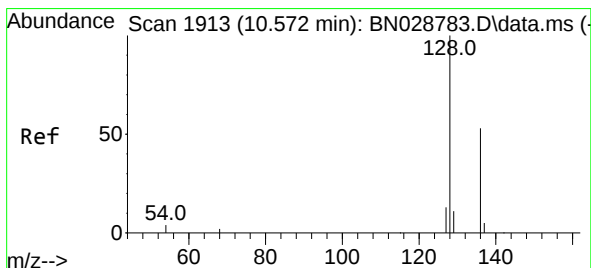
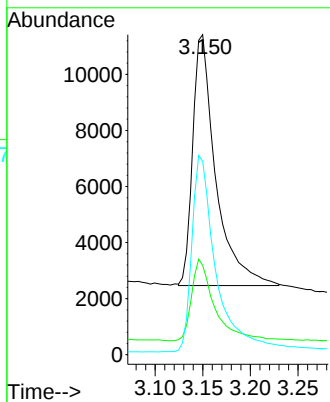
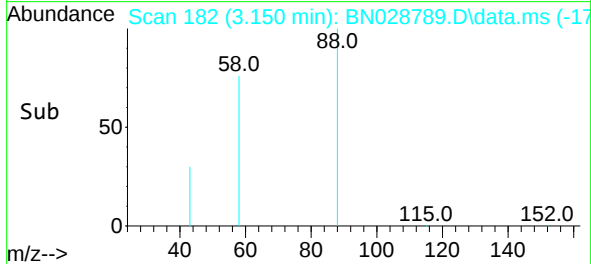
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS270



Tgt Ion: 88 Resp: 1500  
Ion Ratio Lower Upper  
88 100  
43 27.9 32.9 49.3  
58 60.4 41.8 62.8

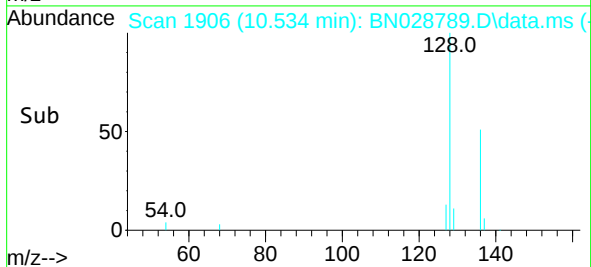
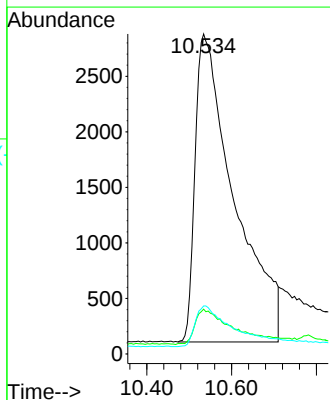
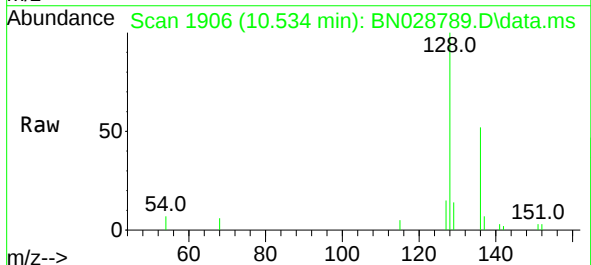
Manual Integrations  
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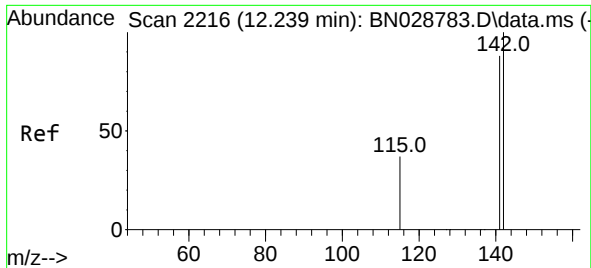
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023



#5  
Naphthalene  
Concen: 0.379 ng/ul  
RT: 10.534 min Scan# 1906  
Delta R.T. -0.000 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00

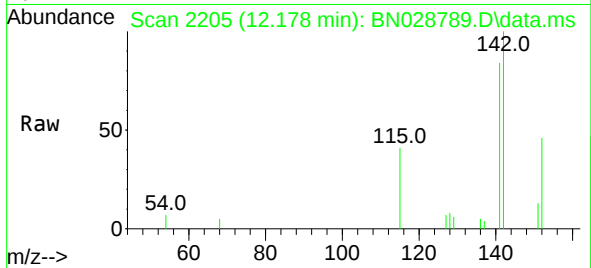
Tgt Ion:128 Resp: 17673  
Ion Ratio Lower Upper  
128 100  
129 14.0 9.2 13.8  
127 15.0 10.7 16.1





#7  
2-Methylnaphthalene  
Concen: 0.254 ng/ul  
RT: 12.178 min Scan# 211  
Delta R.T. 0.005 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00

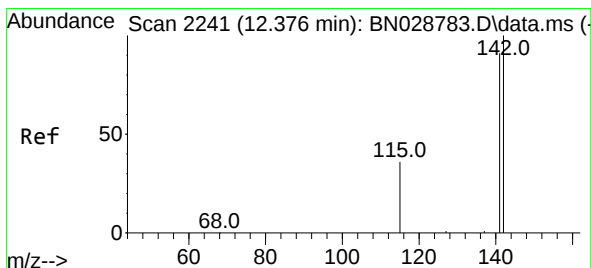
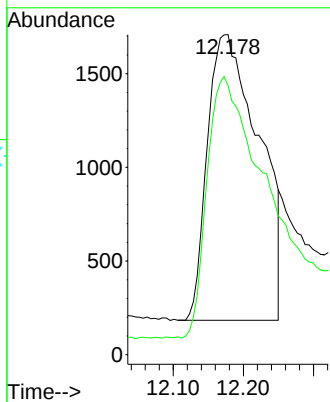
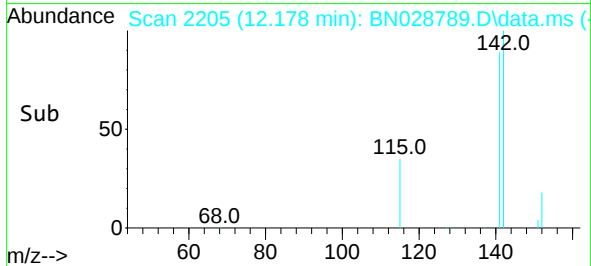
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS270



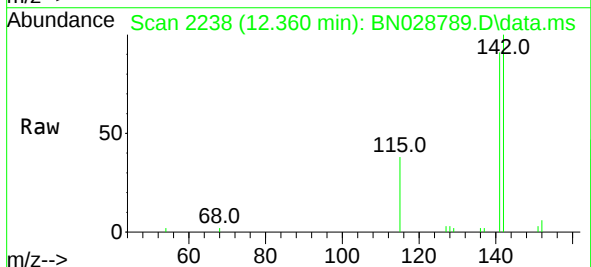
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Ion Ratio Lower Upper  
142 100  
141 92.0 70.8 106.2

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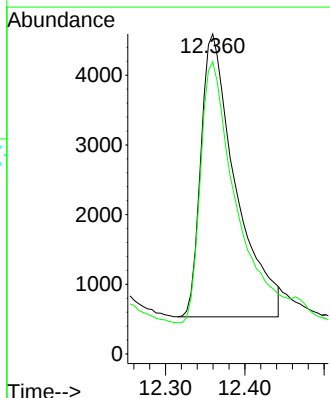
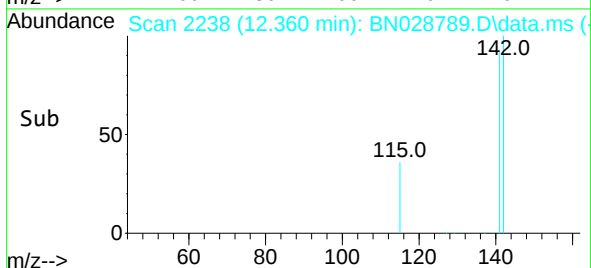
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023

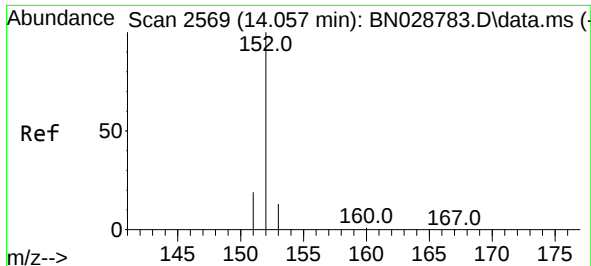


#8  
1-Methylnaphthalene  
Concen: 0.395 ng/ul  
RT: 12.360 min Scan# 2238  
Delta R.T. -0.006 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00



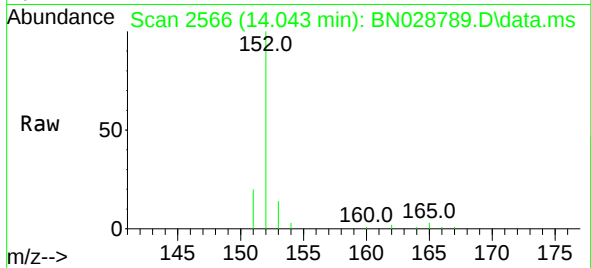
Tgt Ion:142 Resp: 12325  
Ion Ratio Lower Upper  
142 100  
141 93.4 74.1 111.1





#10  
Acenaphthylene  
Concen: 0.375 ng/ul  
RT: 14.043 min Scan# 2137  
Delta R.T. -0.009 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00

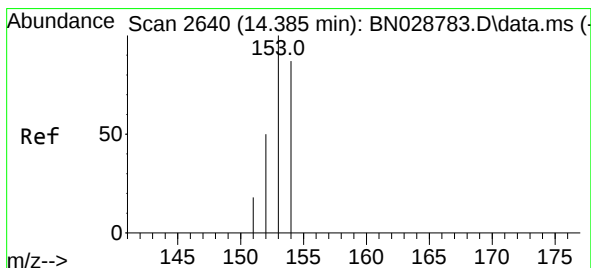
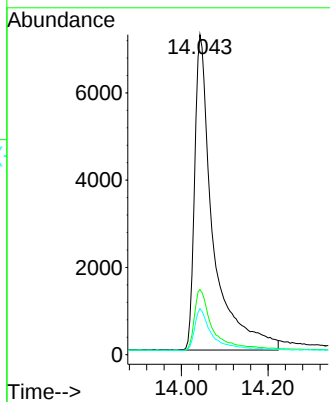
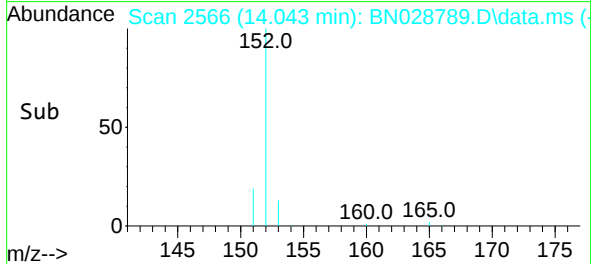
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS270



Tgt Ion:152 Resp: 2137  
Ion Ratio Lower Upper  
152 100  
151 20.3 16.1 24.1  
153 14.4 10.6 15.8

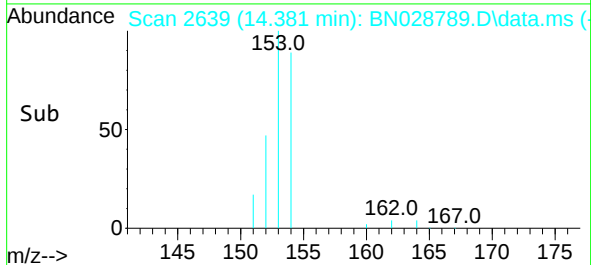
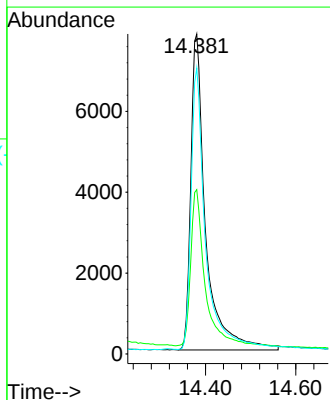
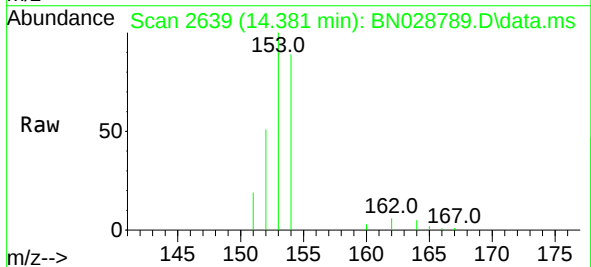
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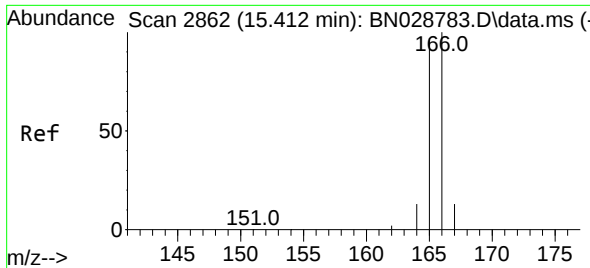
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023



#11  
Acenaphthene  
Concen: 0.427 ng/ul  
RT: 14.381 min Scan# 2639  
Delta R.T. -0.009 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00

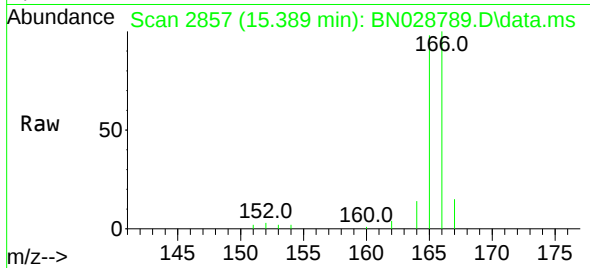
Tgt Ion:153 Resp: 17900  
Ion Ratio Lower Upper  
153 100  
152 51.3 39.6 59.4  
154 89.3 71.0 106.6





#12  
Fluorene  
Concen: 0.331 ng/ul  
RT: 15.389 min Scan# 21  
Delta R.T. -0.005 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00

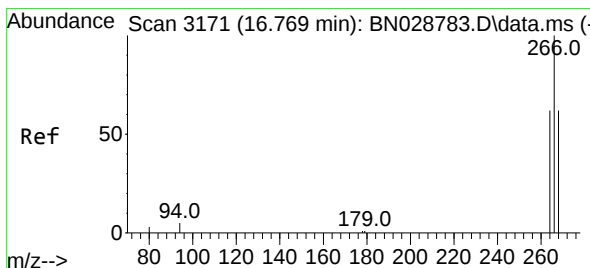
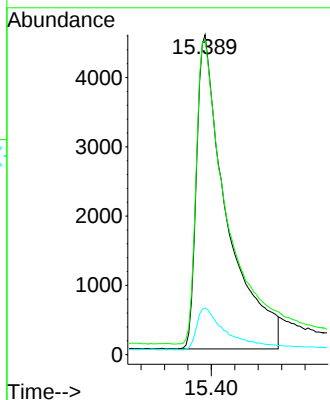
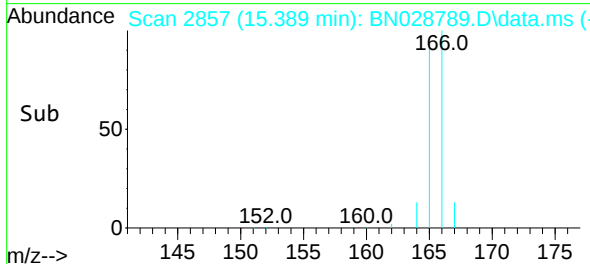
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS270



Tgt Ion:166 Resp: 16130  
Ion Ratio Lower Upper  
166 100  
165 98.4 78.6 118.0  
167 14.6 11.0 16.6

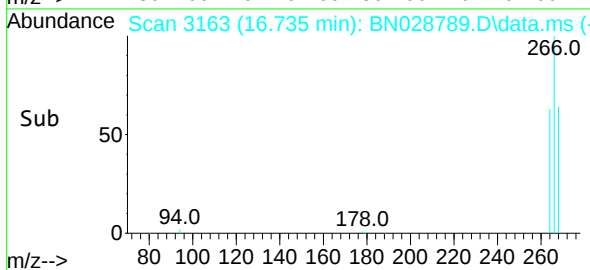
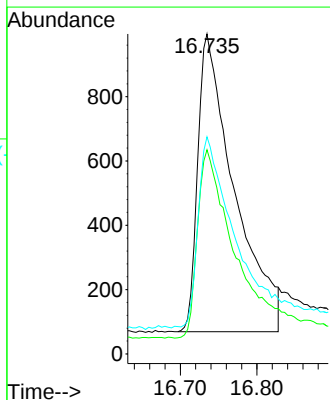
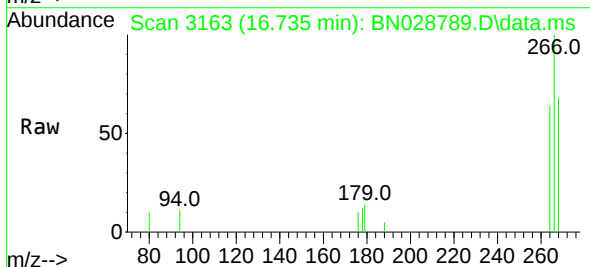
Manual Integrations  
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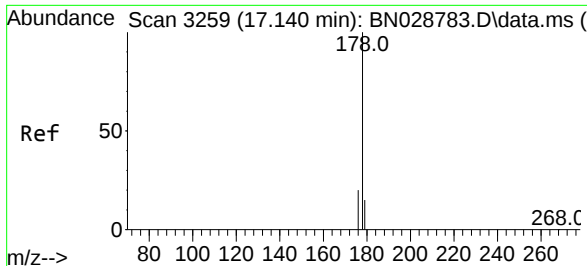
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023



#14  
Pentachlorophenol  
Concen: 0.755 ng/ul  
RT: 16.735 min Scan# 3163  
Delta R.T. -0.013 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00

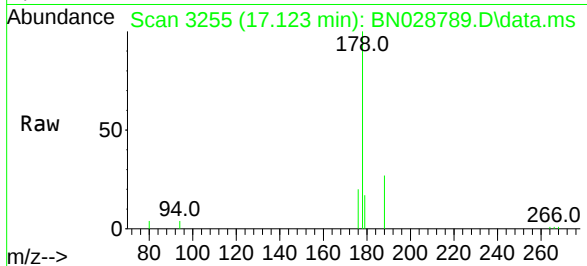
Tgt Ion:266 Resp: 3056  
Ion Ratio Lower Upper  
266 100  
264 62.7 50.1 75.1  
268 64.4 50.6 75.8





#15  
Phenanthrene  
Concen: 0.470 ng/ul  
RT: 17.123 min Scan# 31  
Delta R.T. -0.008 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00

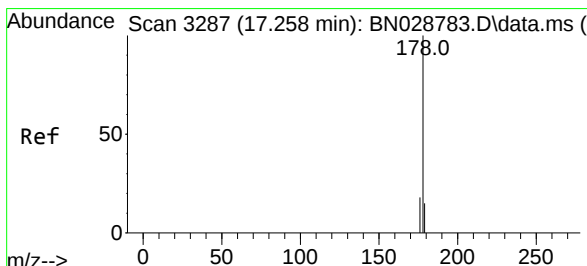
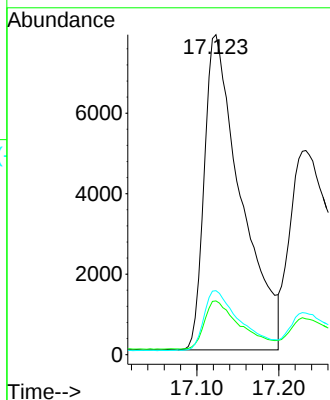
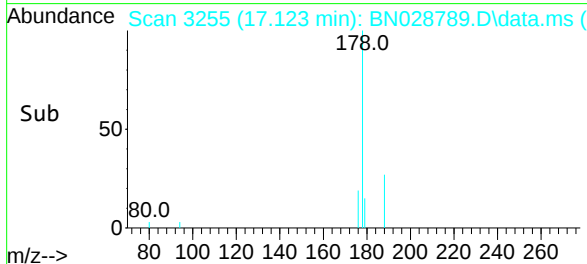
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS270



Tgt Ion:178 Resp: 24338  
Ion Ratio Lower Upper  
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179 16.8 12.4 18.6  
176 20.0 15.4 23.2

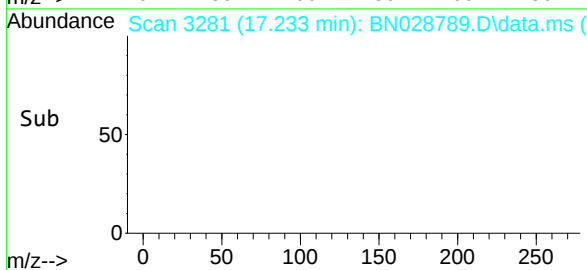
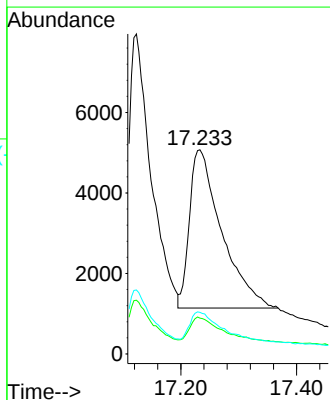
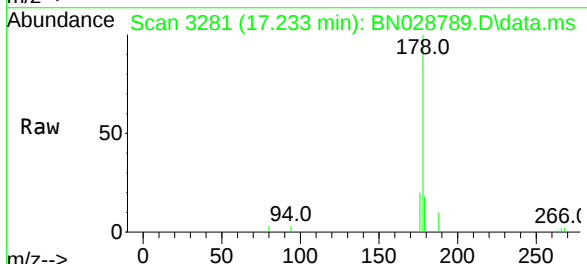
Manual Integrations  
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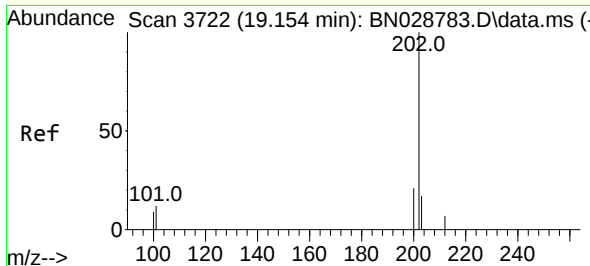
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023



#16  
Anthracene  
Concen: 0.319 ng/ul  
RT: 17.233 min Scan# 3281  
Delta R.T. -0.004 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00

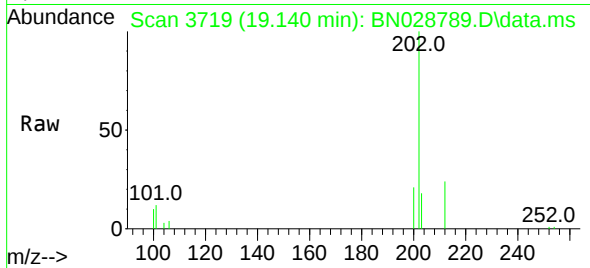
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Ion Ratio Lower Upper  
178 100  
179 17.6 12.6 18.8  
176 20.3 14.9 22.3





#19  
Fluoranthene  
Concen: 0.487 ng/u1  
RT: 19.140 min Scan# 3719  
Delta R.T. -0.009 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00

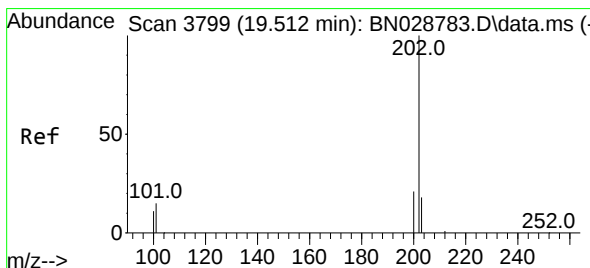
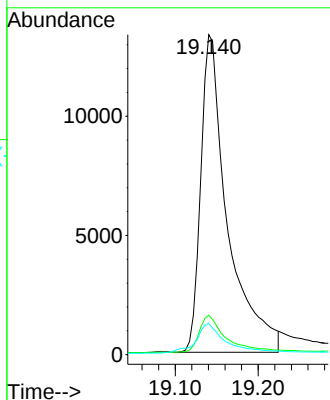
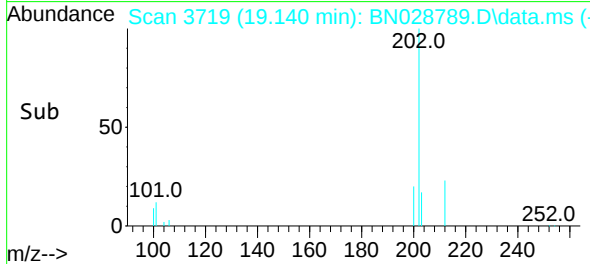
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS270



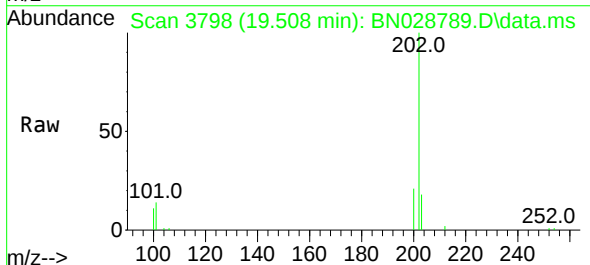
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Ion Ratio Lower Upper  
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100 9.8 7.2 10.8

Manual Integrations  
APPROVED

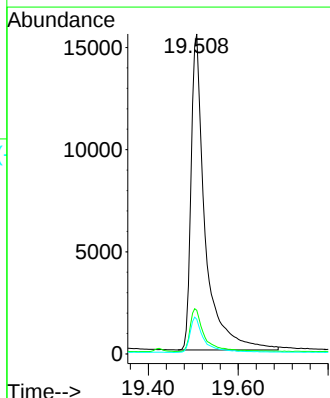
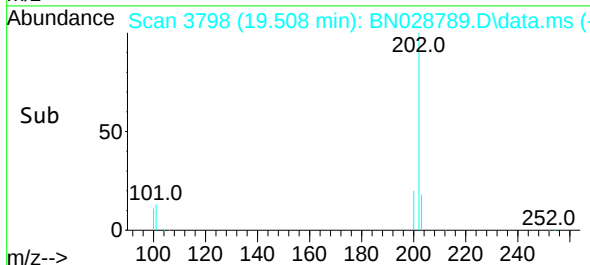
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023

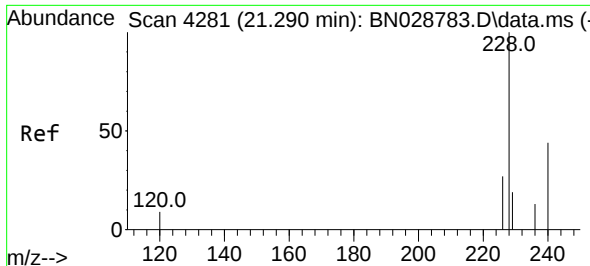


#20  
Pyrene  
Concen: 0.529 ng/u1  
RT: 19.508 min Scan# 3798  
Delta R.T. -0.005 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00



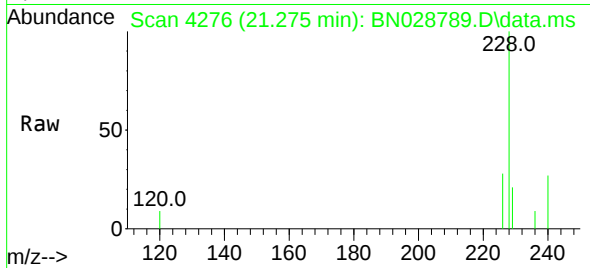
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Ion Ratio Lower Upper  
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101 13.6 10.3 15.5  
100 10.9 8.2 12.2





#21  
Benzo(a)anthracene  
Concen: 0.328 ng/ul  
RT: 21.275 min Scan# 4281  
Delta R.T. -0.006 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00

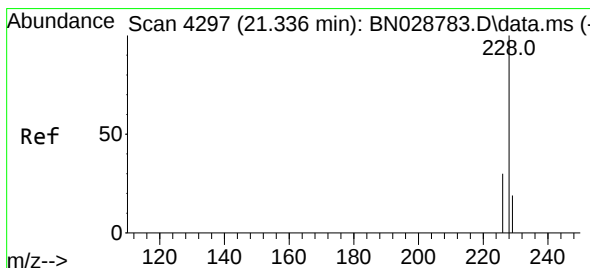
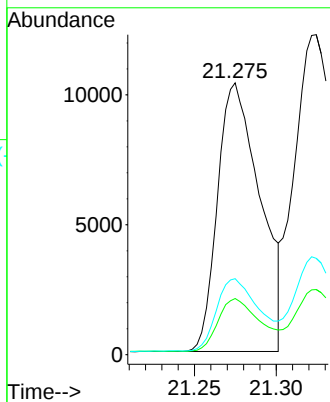
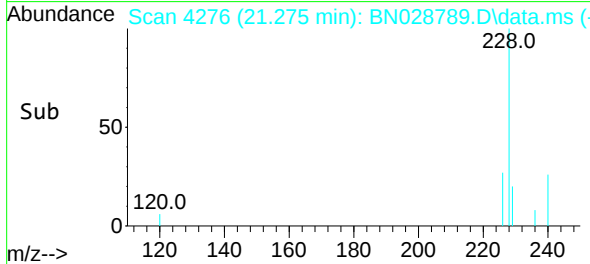
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS270



Tgt Ion:228 Resp: 18759  
Ion Ratio Lower Upper  
228 100  
229 20.6 15.7 23.5  
226 28.0 21.4 32.0

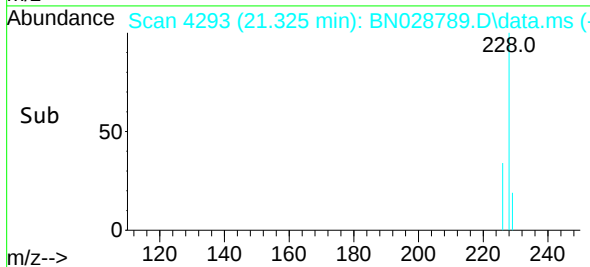
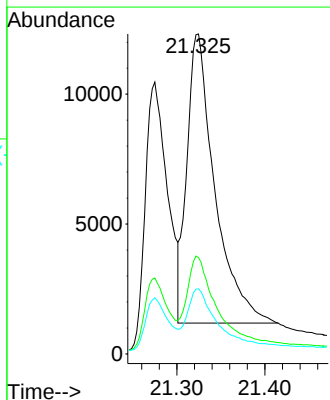
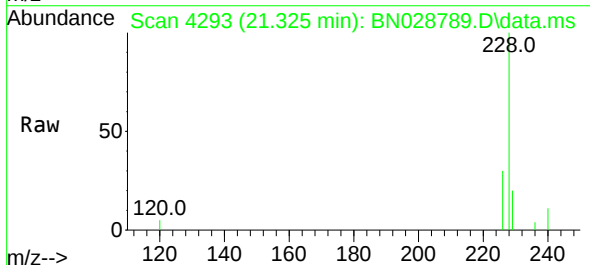
Manual Integrations  
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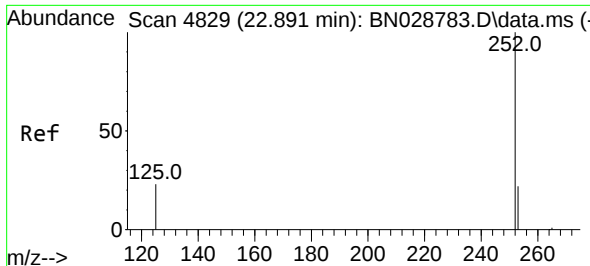
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023



#22  
Chrysene  
Concen: 0.440 ng/ul  
RT: 21.325 min Scan# 4293  
Delta R.T. -0.009 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00

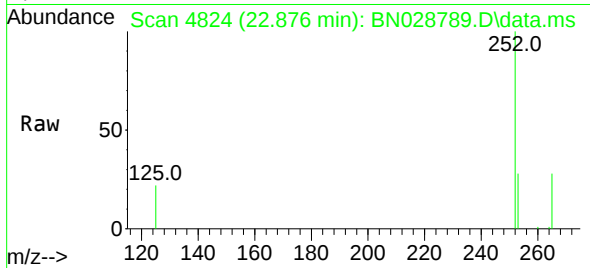
Tgt Ion:228 Resp: 24560  
Ion Ratio Lower Upper  
228 100  
226 30.1 23.8 35.8  
229 20.4 15.4 23.2





#24  
Benzo(b)fluoranthene  
Concen: 0.397 ng/ul  
RT: 22.876 min Scan# 4824  
Delta R.T. -0.012 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00

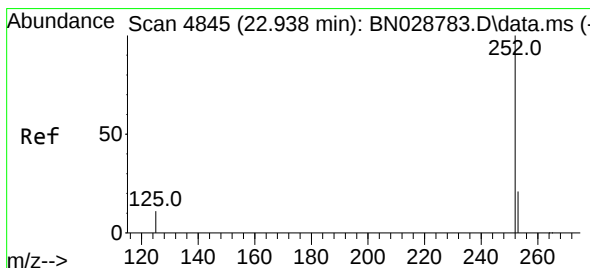
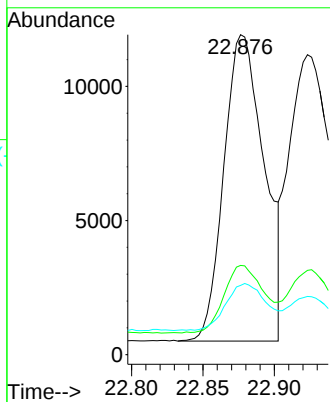
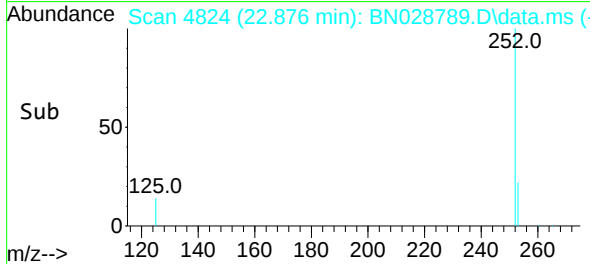
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS270



Tgt Ion:252 Resp: 22398  
Ion Ratio Lower Upper  
252 100  
253 27.9 0.0 46.6  
125 21.7 0.0 27.6

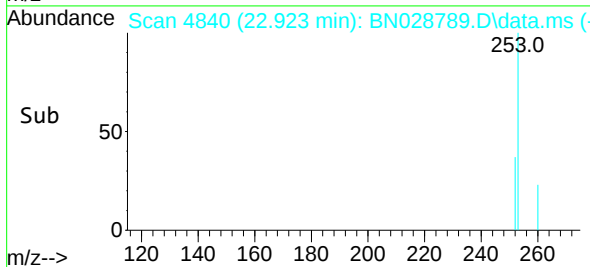
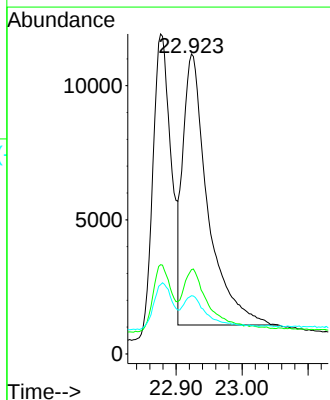
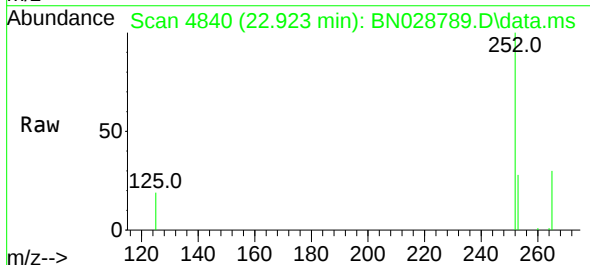
Manual Integrations  
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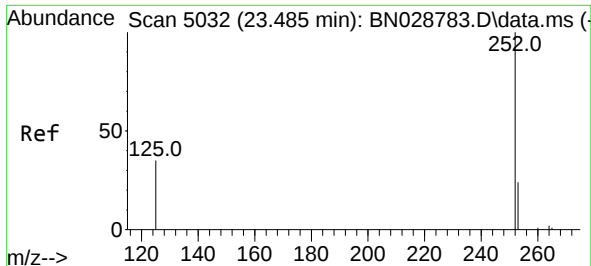
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023



#25  
Benzo(k)fluoranthene  
Concen: 0.448 ng/ul  
RT: 22.923 min Scan# 4840  
Delta R.T. -0.009 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00

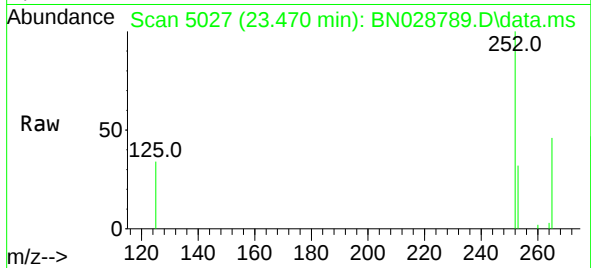
Tgt Ion:252 Resp: 26463  
Ion Ratio Lower Upper  
252 100  
253 28.1 18.6 28.0#  
125 19.4 12.7 19.1#





#26  
Benzo(a)pyrene  
Concen: 0.427 ng/ul  
RT: 23.470 min Scan# 5032  
Delta R.T. -0.012 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00

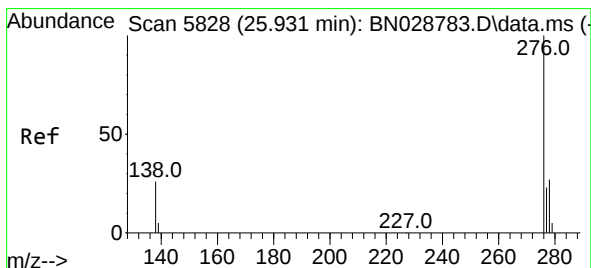
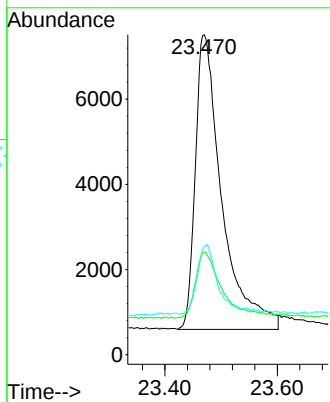
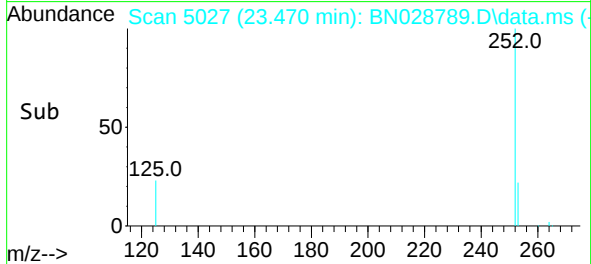
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS270



Tgt Ion:252 Resp: 2273  
Ion Ratio Lower Upper  
252 100  
253 32.1 19.0 28.6  
125 33.7 13.2 19.8

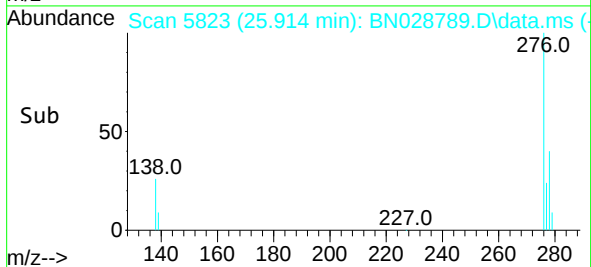
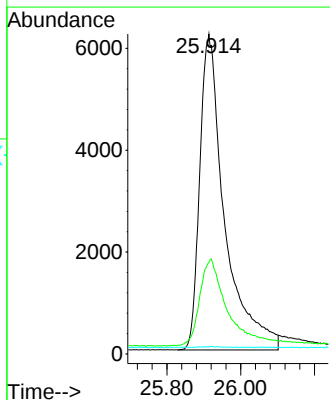
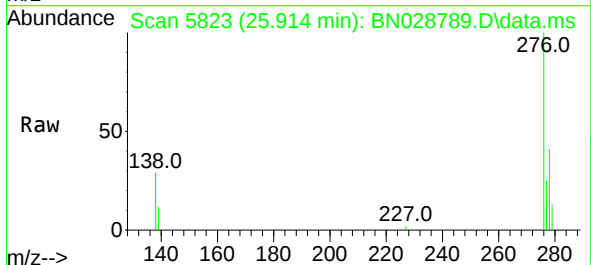
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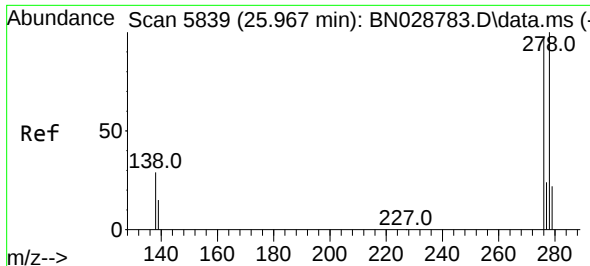
Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023



#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.491 ng/ul  
RT: 25.914 min Scan# 5823  
Delta R.T. -0.017 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00

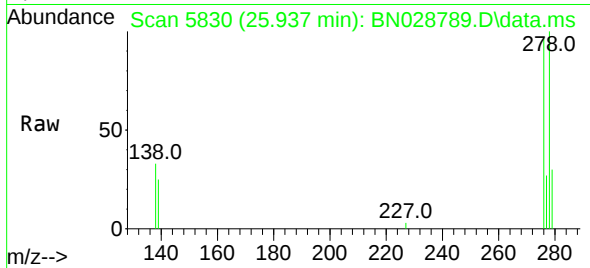
Tgt Ion:276 Resp: 28993  
Ion Ratio Lower Upper  
276 100  
138 30.1 23.8 35.6  
227 0.1 0.1 0.1





#28  
Dibenzo(a,h)anthracene  
Concen: 0.469 ng/ul  
RT: 25.937 min Scan# 5839  
Delta R.T. -0.020 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00

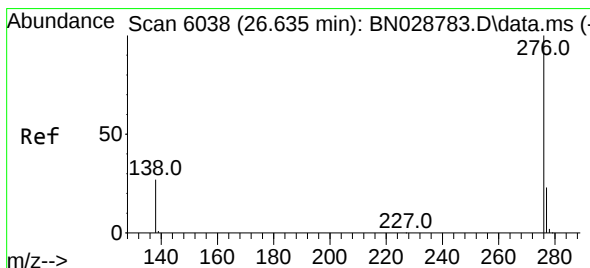
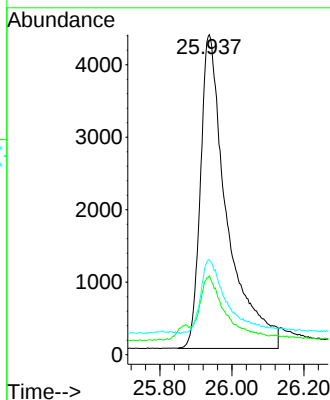
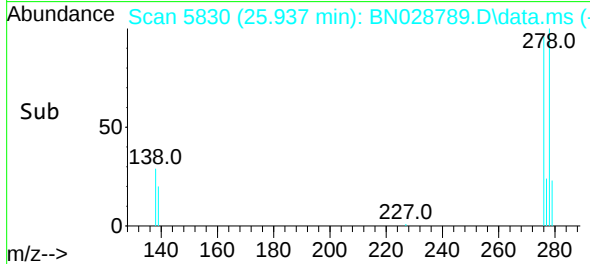
Instrument :  
BNA\_N  
ClientSampleId :  
SLCS270



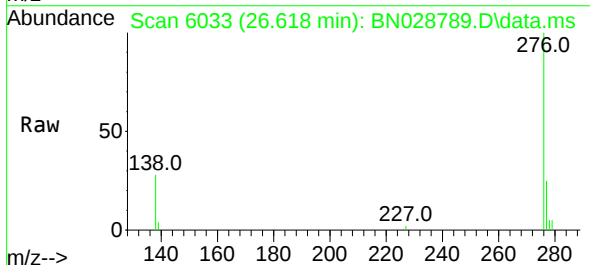
Tgt Ion:278 Resp: 22120  
Ion Ratio Lower Upper  
278 100  
139 24.6 18.2 27.4  
279 29.7 20.7 31.1

Manual Integrations  
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Reviewed By :Yogesh Patel 11/20/2023  
Supervised By :mohammad ahmed 11/20/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.526 ng/ul  
RT: 26.618 min Scan# 6033  
Delta R.T. -0.023 min  
Lab File: BN028789.D  
Acq: 19 Nov 2023 23:00



Tgt Ion:276 Resp: 25467  
Ion Ratio Lower Upper  
276 100  
138 27.6 20.5 30.7  
277 25.0 19.4 29.0

