

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM121123\  
 Data File : BM043288.D  
 Acq On : 13 Dec 2023 06:22  
 Operator : MA/JU  
 Sample : 05686-05MSD  
 Misc :  
 ALS Vial : 63 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 YCH84MSD

Quant Time: Dec 13 06:55:08 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM121123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 11 16:25:39 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/14/2023  
 Supervised By :mohammad ahmed 12/14/2023

| Compound                    | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|------|----------|-------|--------|----------|
| -----                       |        |      |          |       |        |          |
| Internal Standards          |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.005  | 152  | 9772     | 0.400 | ng/ul  | 0.00     |
| 4) Naphthalene-d8           | 10.807 | 136  | 31666    | 0.400 | ng/ul  | -0.01    |
| 9) Acenaphthene-d10         | 14.629 | 164  | 16908    | 0.400 | ng/ul  | 0.00     |
| 13) Phenanthrene-d10        | 17.367 | 188  | 33705    | 0.400 | ng/ul  | 0.00     |
| 17) Chrysene-d12            | 21.536 | 240  | 18740    | 0.400 | ng/ul  | # 0.00   |
| 23) Perylene-d12            | 23.950 | 264  | 17852    | 0.400 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| System Monitoring Compounds |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8           | 3.406  | 96   | 3497     | 0.283 | ng/ul  | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.390 | 152  | 14936    | 0.333 | ng/ul  | 0.00     |
| 18) Fluoranthene-d10        | 19.385 | 212  | 28989    | 0.433 | ng/ul  | 0.00     |
|                             |        |      |          |       |        |          |
| Target Compounds            |        |      |          |       |        |          |
|                             |        |      |          |       |        | Qvalue   |
| 2) 1,4-Dioxane              | 3.440  | 88   | 10043    | 0.811 | ng/ul  | 90       |
| 5) Naphthalene              | 10.862 | 128  | 37501    | 0.394 | ng/ul  | 100      |
| 7) 2-Methylnaphthalene      | 12.467 | 142  | 21161    | 0.344 | ng/ul  | 100      |
| 8) 1-Methylnaphthalene      | 12.682 | 142  | 20442    | 0.332 | ng/ul  | 100      |
| 10) Acenaphthylene          | 14.351 | 152  | 33578    | 0.361 | ng/ul  | 99       |
| 11) Acenaphthene            | 14.689 | 153  | 24778    | 0.366 | ng/ul  | 99       |
| 12) Fluorene                | 15.675 | 166  | 28523    | 0.372 | ng/ul  | 98       |
| 14) Pentachlorophenol       | 17.008 | 266  | 4679     | 0.627 | ng/ul  | 99       |
| 15) Phenanthrene            | 17.409 | 178  | 46251    | 0.411 | ng/ul  | 99       |
| 16) Anthracene              | 17.497 | 178  | 41852    | 0.410 | ng/ul  | 99       |
| 19) Fluoranthene            | 19.413 | 202  | 46229    | 0.437 | ng/ul# | 92       |
| 20) Pyrene                  | 19.775 | 202  | 47066    | 0.448 | ng/ul  | 95       |
| 21) Benzo(a)anthracene      | 21.518 | 228  | 35981    | 0.438 | ng/ul  | 99       |
| 22) Chrysene                | 21.571 | 228  | 36912    | 0.425 | ng/ul  | 100      |
| 24) Benzo(b)fluoranthene    | 23.214 | 252  | 34173    | 0.422 | ng/ul  | 98       |
| 25) Benzo(k)fluoranthene    | 23.260 | 252  | 35455m   | 0.422 | ng/ul  |          |
| 26) Benzo(a)pyrene          | 23.842 | 252  | 29009    | 0.434 | ng/ul  | 98       |
| 27) Indeno(1,2,3-cd)pyrene  | 26.465 | 276  | 34324    | 0.451 | ng/ul# | 91       |
| 28) Dibenzo(a,h)anthracene  | 26.499 | 278  | 27522    | 0.456 | ng/ul  | 97       |
| 29) Benzo(g,h,i)perylene    | 27.240 | 276  | 28998    | 0.446 | ng/ul  | 98       |
| -----                       |        |      |          |       |        |          |

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

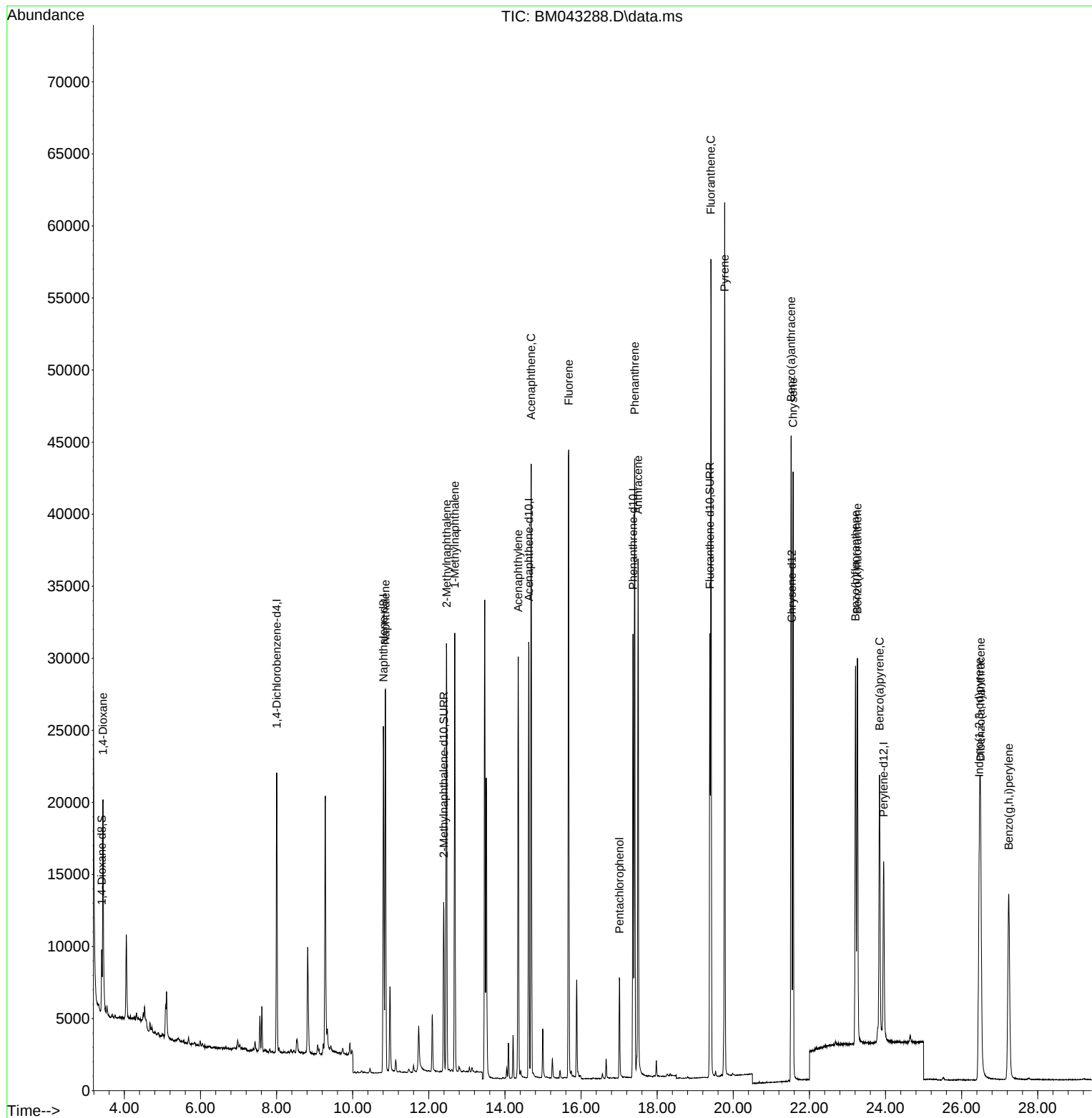
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Data File : BM043288.D  
Acq On : 13 Dec 2023 06:22  
Operator : MA/JU  
Sample : 05686-05MSD  
Misc :  
ALS Vial : 63 Sample Multiplier: 1

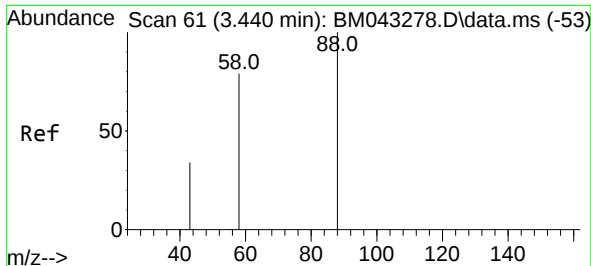
Instrument :  
BNA\_M  
ClientSampleId :  
YCH84MSD

Manual Integrations  
APPROVED

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Supervised By :mohammad ahmed 12/14/2023

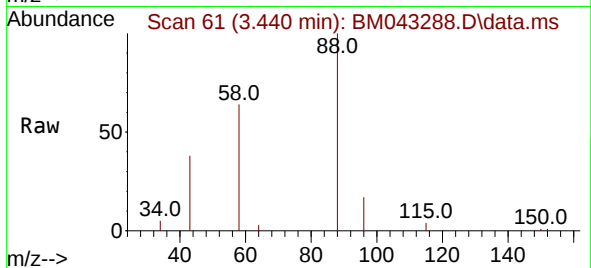
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-SIM-BM121123.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 11 16:25:39 2023  
Response via : Initial Calibration





#2  
1,4-Dioxane  
Concen: 0.811 ng/ul  
RT: 3.440 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22

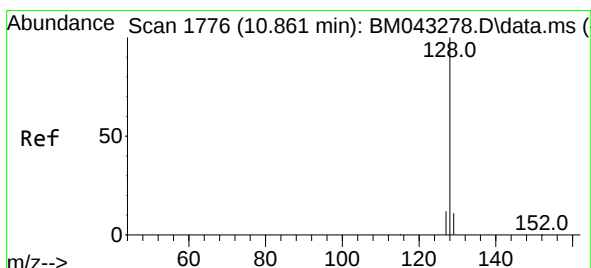
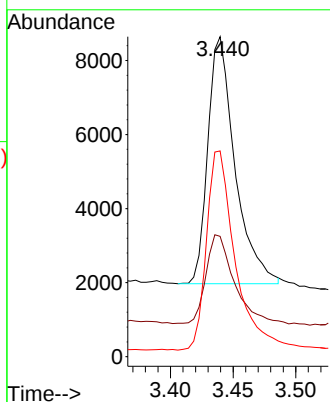
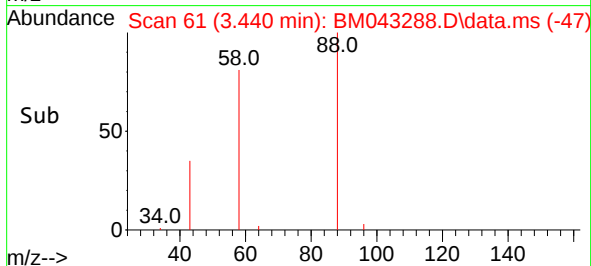
Instrument :  
BNA\_M  
ClientSampleId :  
YCH84MSD



Tgt Ion: 88 Resp: 1004  
Ion Ratio Lower Upper  
88 100  
43 37.6 27.9 41.9  
58 64.3 43.4 65.2

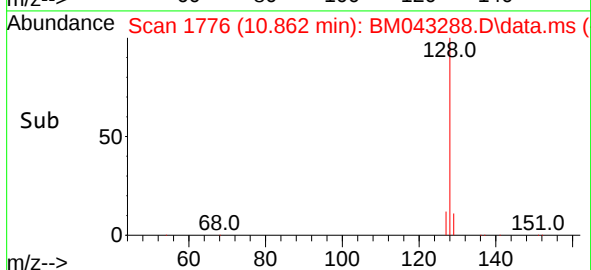
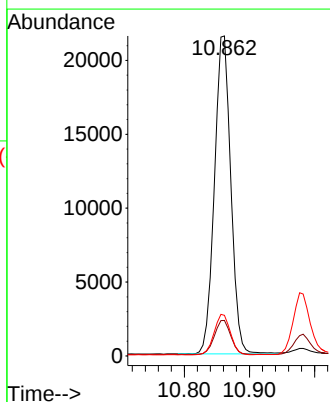
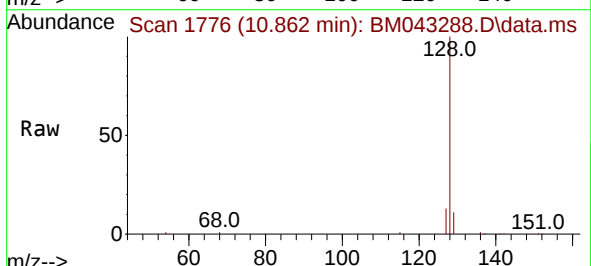
Manual Integrations  
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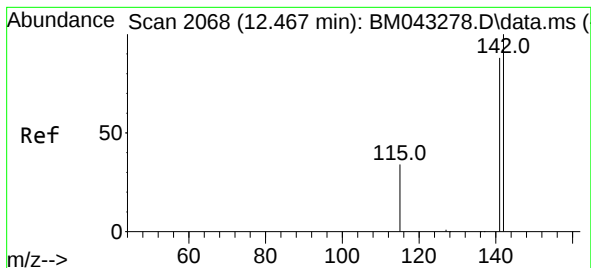
Reviewed By :Yogesh Patel 12/14/2023  
Supervised By :mohammad ahmed 12/14/2023



#5  
Naphthalene  
Concen: 0.394 ng/ul  
RT: 10.862 min Scan# 1776  
Delta R.T. -0.006 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22

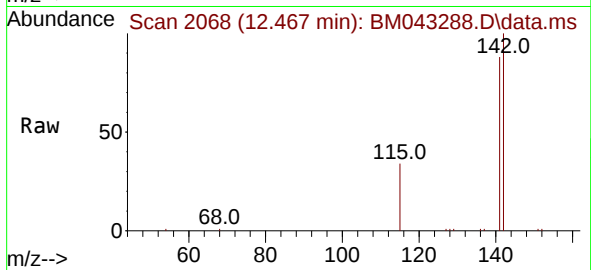
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Ion Ratio Lower Upper  
128 100  
129 11.1 9.0 13.4  
127 12.7 10.3 15.5





#7  
2-Methylnaphthalene  
Concen: 0.344 ng/ul  
RT: 12.467 min Scan# 2068  
Delta R.T. -0.006 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22

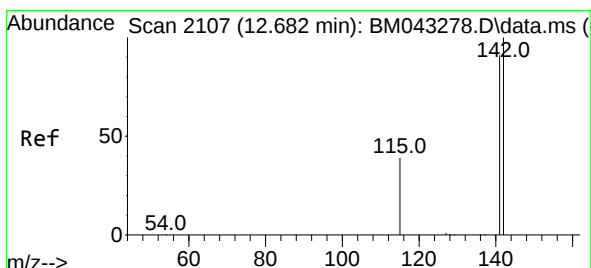
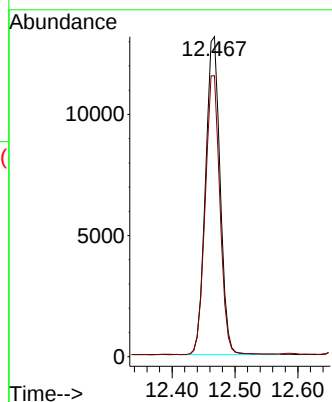
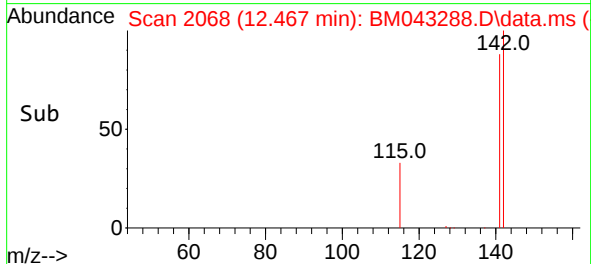
Instrument :  
BNA\_M  
ClientSampleId :  
YCH84MSD



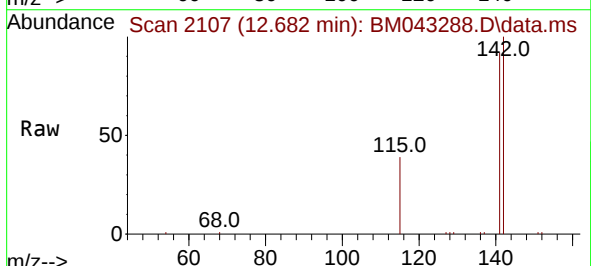
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Ion Ratio Lower Upper  
142 100  
141 88.4 70.9 106.3

Manual Integrations  
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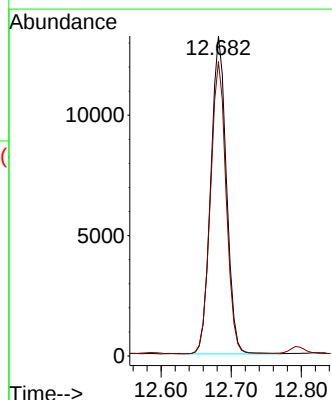
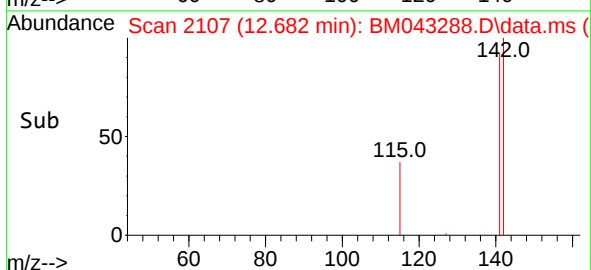
Reviewed By :Yogesh Patel 12/14/2023  
Supervised By :mohammad ahmed 12/14/2023

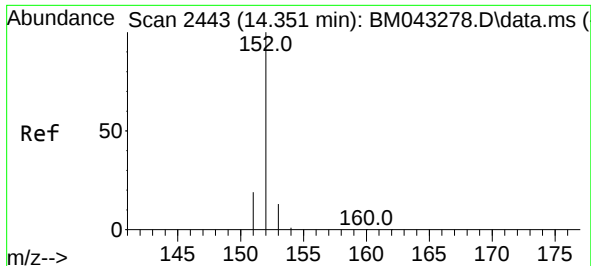


#8  
1-Methylnaphthalene  
Concen: 0.332 ng/ul  
RT: 12.682 min Scan# 2107  
Delta R.T. -0.006 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22



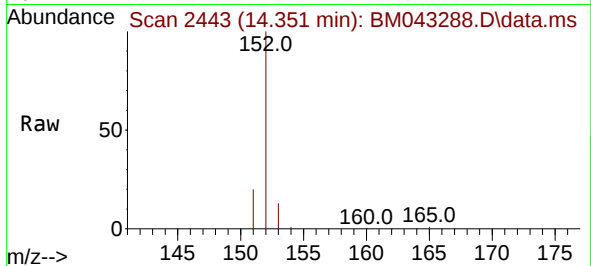
Tgt Ion:142 Resp: 20442  
Ion Ratio Lower Upper  
142 100  
141 92.1 73.7 110.5





#10  
Acenaphthylene  
Concen: 0.361 ng/ul  
RT: 14.351 min Scan# 2443  
Delta R.T. -0.000 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22

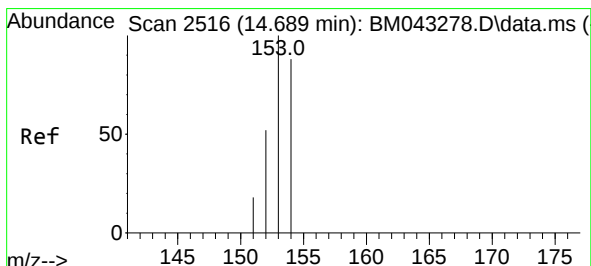
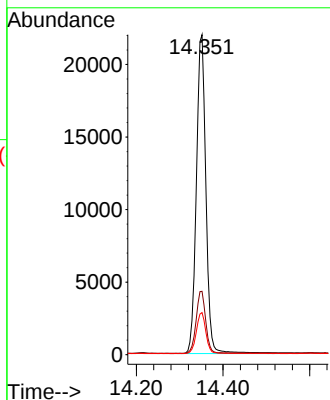
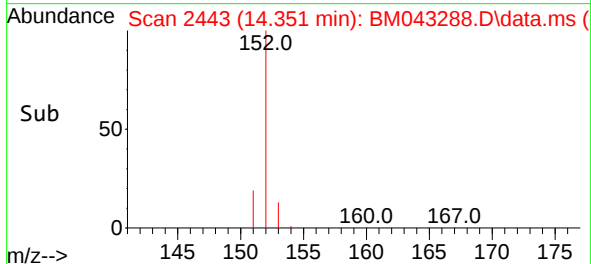
Instrument :  
BNA\_M  
ClientSampleId :  
YCH84MSD



Tgt Ion:152 Resp: 33578  
Ion Ratio Lower Upper  
152 100  
151 19.8 16.2 24.2  
153 13.1 10.4 15.6

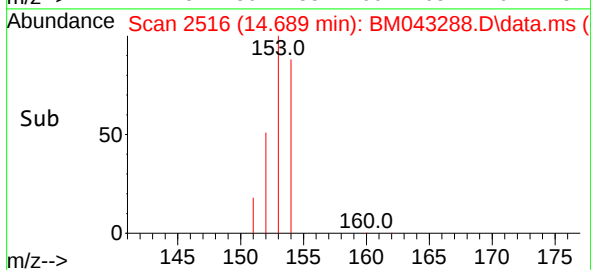
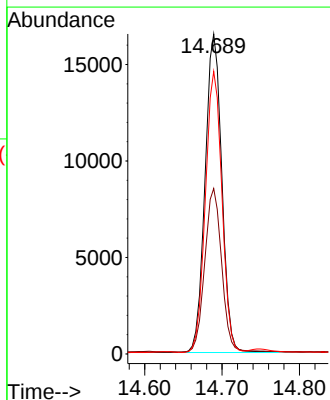
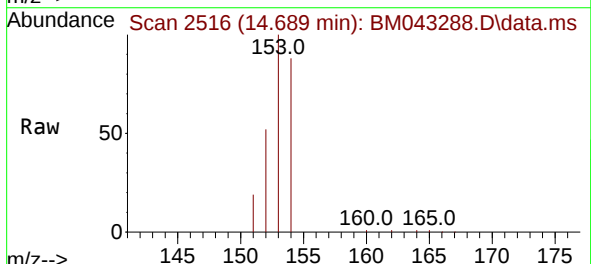
Manual Integrations  
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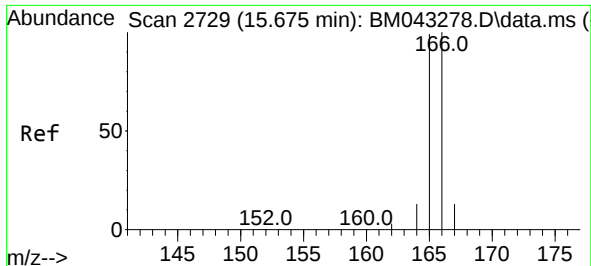
Reviewed By :Yogesh Patel 12/14/2023  
Supervised By :mohammad ahmed 12/14/2023



#11  
Acenaphthene  
Concen: 0.366 ng/ul  
RT: 14.689 min Scan# 2516  
Delta R.T. -0.005 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22

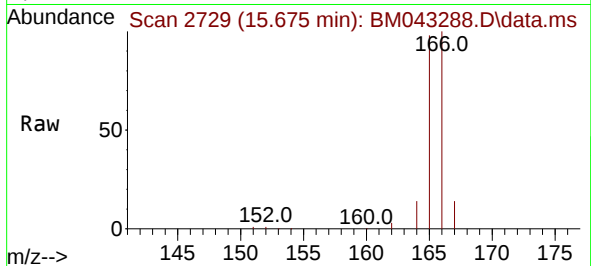
Tgt Ion:153 Resp: 24778  
Ion Ratio Lower Upper  
153 100  
152 51.7 42.1 63.1  
154 88.3 71.3 106.9





#12  
Fluorene  
Concen: 0.372 ng/ul  
RT: 15.675 min Scan# 2729  
Delta R.T. -0.000 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22

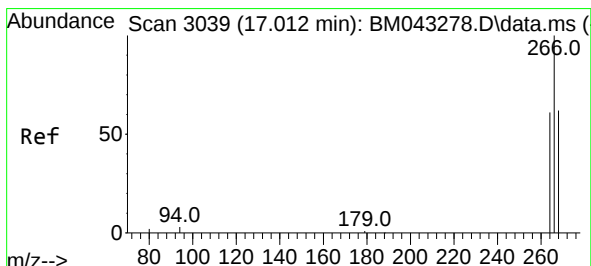
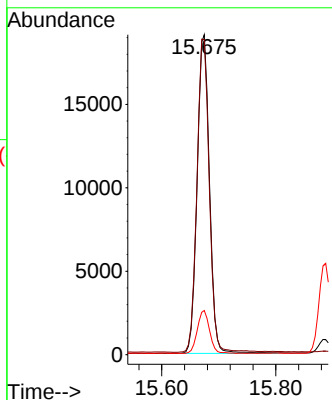
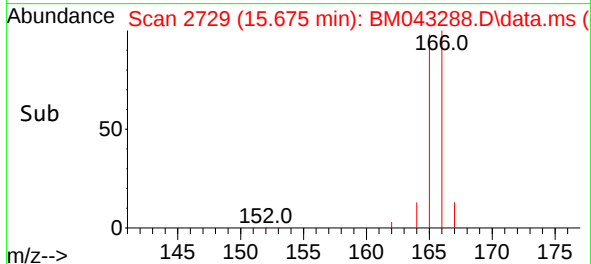
Instrument :  
BNA\_M  
ClientSampleId :  
YCH84MSD



Tgt Ion:166 Resp: 2852  
Ion Ratio Lower Upper  
166 100  
165 98.5 80.3 120.5  
167 13.8 10.8 16.2

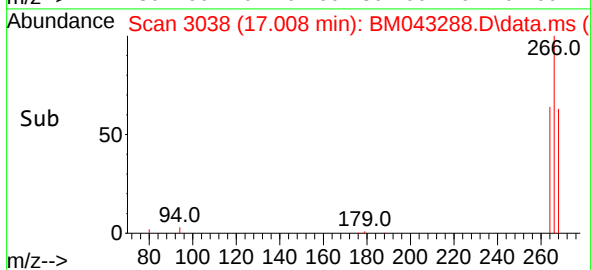
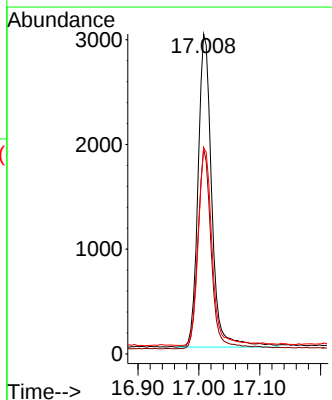
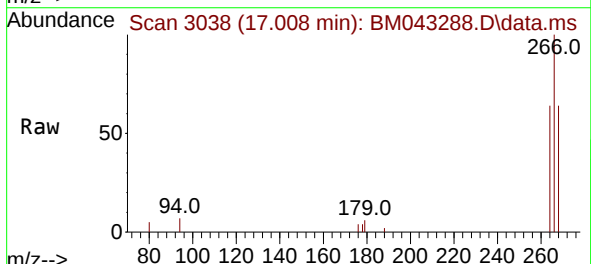
Manual Integrations  
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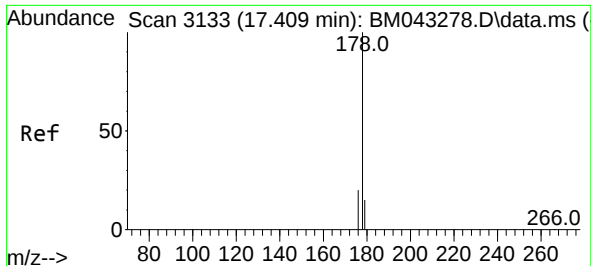
Reviewed By :Yogesh Patel 12/14/2023  
Supervised By :mohammad ahmed 12/14/2023



#14  
Pentachlorophenol  
Concen: 0.627 ng/ul  
RT: 17.008 min Scan# 3038  
Delta R.T. -0.004 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22

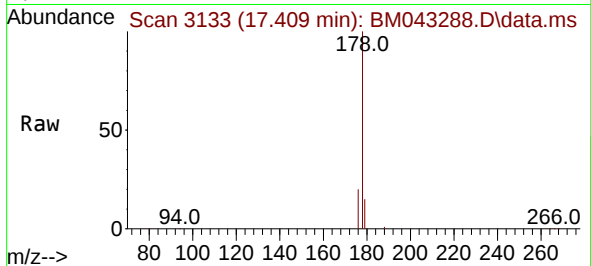
Tgt Ion:266 Resp: 4679  
Ion Ratio Lower Upper  
266 100  
264 63.3 51.7 77.5  
268 64.4 51.9 77.9





#15  
Phenanthrene  
Concen: 0.411 ng/ul  
RT: 17.409 min Scan# 3133  
Delta R.T. -0.000 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22

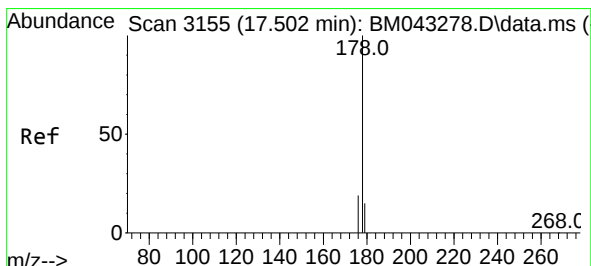
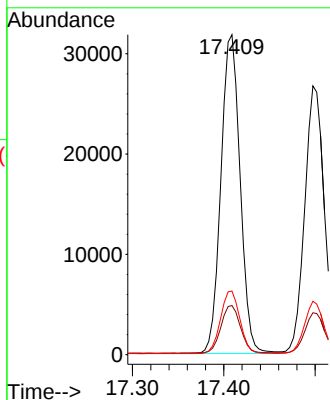
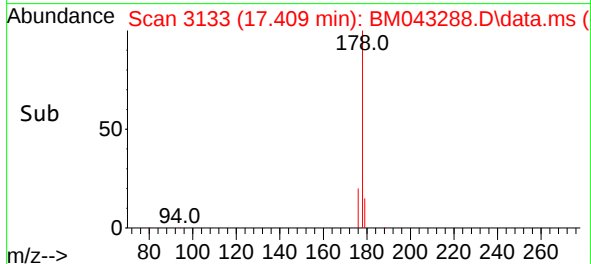
Instrument :  
BNA\_M  
ClientSampleId :  
YCH84MSD



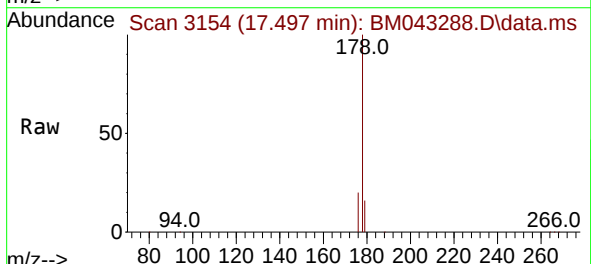
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Manual Integrations  
APPROVED

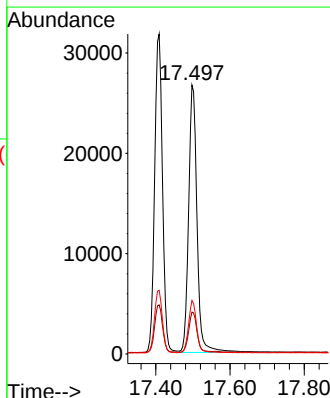
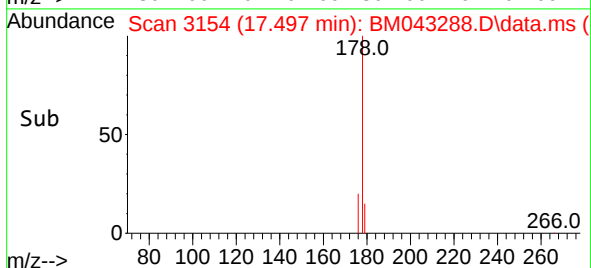
Reviewed By :Yogesh Patel 12/14/2023  
Supervised By :mohammad ahmed 12/14/2023

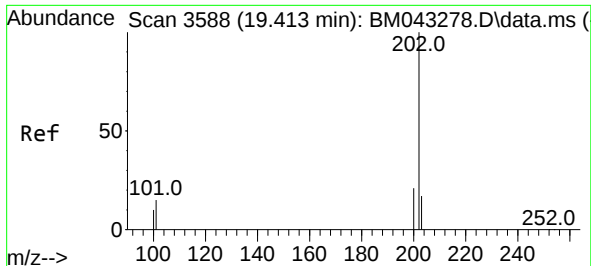


#16  
Anthracene  
Concen: 0.410 ng/ul  
RT: 17.497 min Scan# 3154  
Delta R.T. -0.004 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22



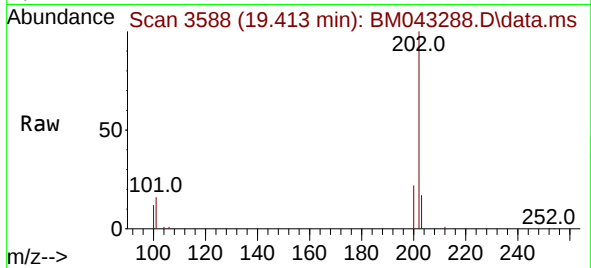
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Ion Ratio Lower Upper  
178 100  
179 15.6 12.6 18.8  
176 19.9 15.6 23.4





#19  
Fluoranthene  
Concen: 0.437 ng/u1  
RT: 19.413 min Scan# 3588  
Delta R.T. -0.005 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22

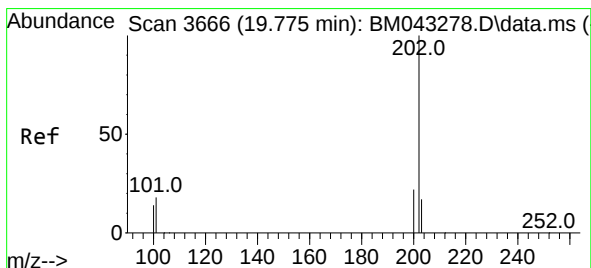
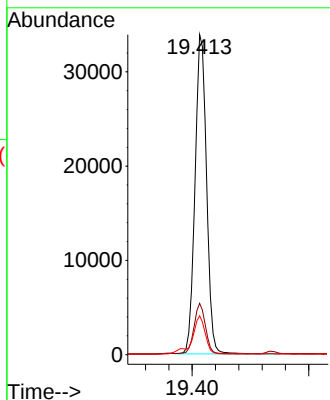
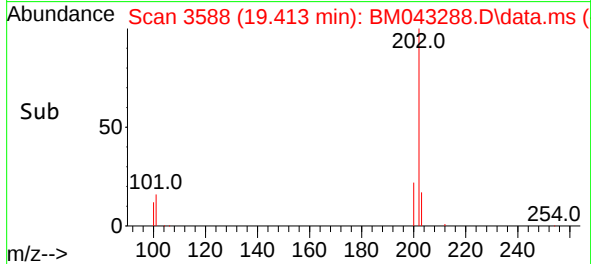
Instrument :  
BNA\_M  
ClientSampleId :  
YCH84MSD



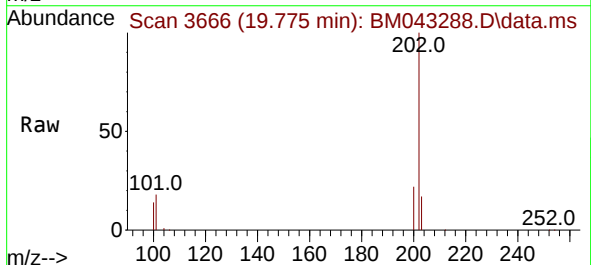
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100 12.1 7.4 11.2

Manual Integrations  
APPROVED

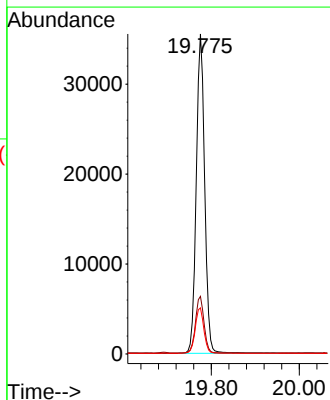
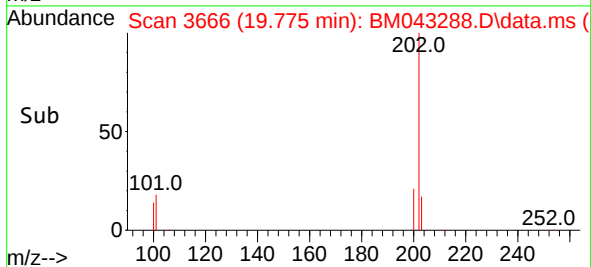
Reviewed By :Yogesh Patel 12/14/2023  
Supervised By :mohammad ahmed 12/14/2023

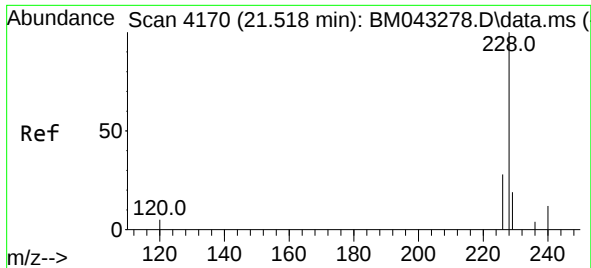


#20  
Pyrene  
Concen: 0.448 ng/u1  
RT: 19.775 min Scan# 3666  
Delta R.T. -0.000 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22



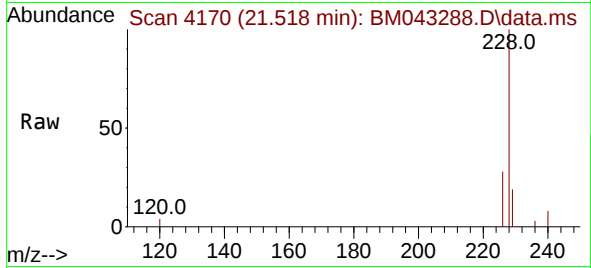
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Ion Ratio Lower Upper  
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101 18.0 12.7 19.1  
100 14.4 9.8 14.8





#21  
Benzo(a)anthracene  
Concen: 0.438 ng/u1  
RT: 21.518 min Scan# 4170  
Delta R.T. -0.000 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22

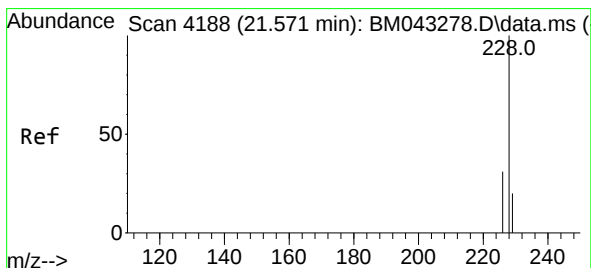
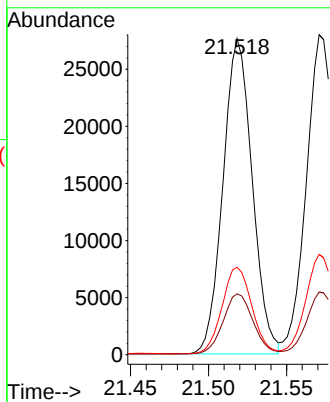
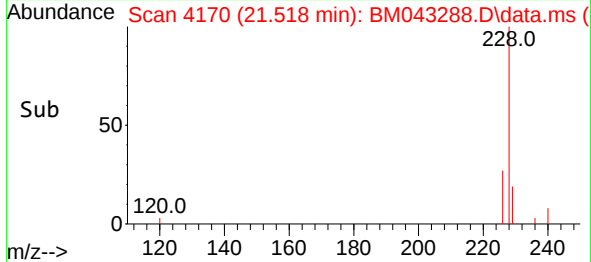
Instrument :  
BNA\_M  
ClientSampleId :  
YCH84MSD



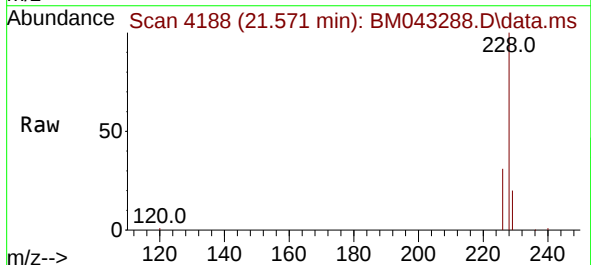
Tgt Ion:228 Resp: 3598  
Ion Ratio Lower Upper  
228 100  
229 19.2 15.5 23.3  
226 27.6 22.6 34.0

Manual Integrations  
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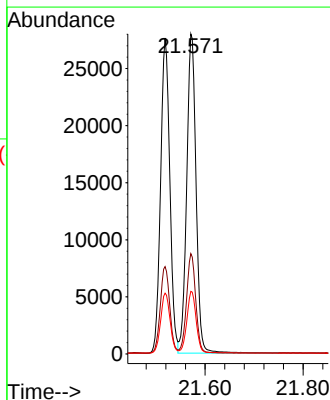
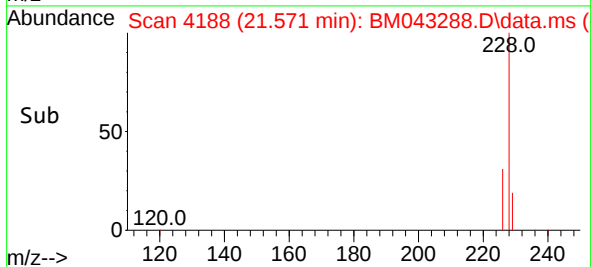
Reviewed By :Yogesh Patel 12/14/2023  
Supervised By :mohammad ahmed 12/14/2023

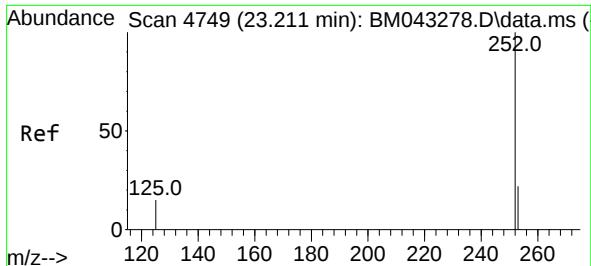


#22  
Chrysene  
Concen: 0.425 ng/u1  
RT: 21.571 min Scan# 4188  
Delta R.T. -0.000 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22



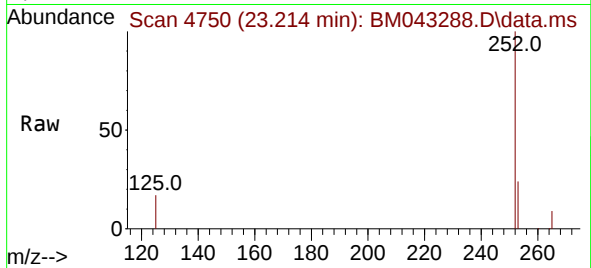
Tgt Ion:228 Resp: 36912  
Ion Ratio Lower Upper  
228 100  
226 31.4 24.8 37.2  
229 19.5 15.7 23.5





#24  
Benzo(b)fluoranthene  
Concen: 0.422 ng/ul  
RT: 23.214 min Scan# 4750  
Delta R.T. -0.000 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22

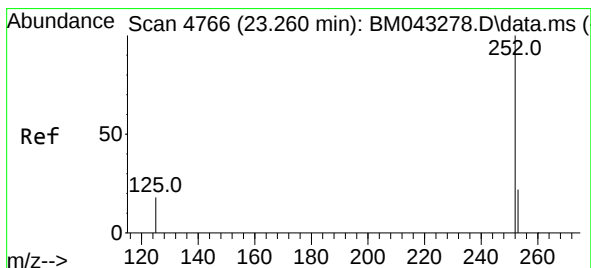
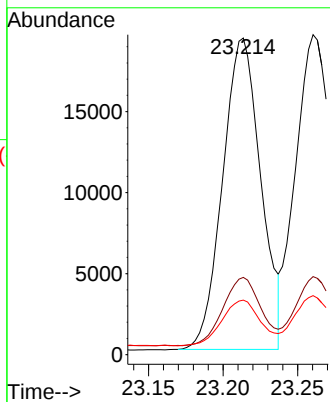
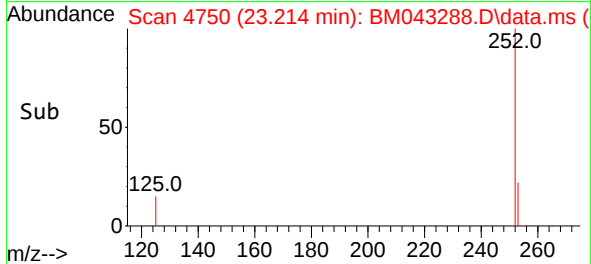
Instrument :  
BNA\_M  
ClientSampleId :  
YCH84MSD



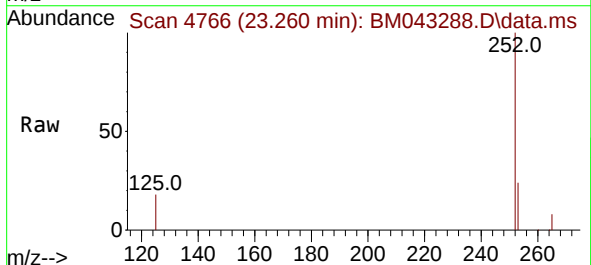
Tgt Ion:252 Resp: 3417  
Ion Ratio Lower Upper  
252 100  
253 24.4 0.0 48.8  
125 17.2 0.0 29.2

Manual Integrations  
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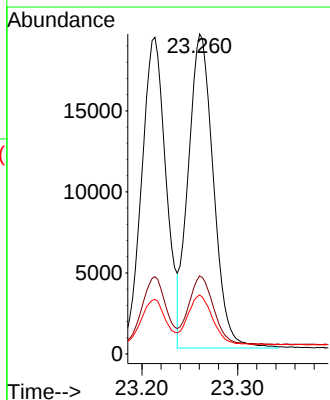
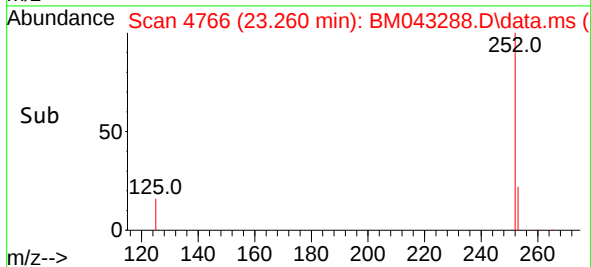
Reviewed By :Yogesh Patel 12/14/2023  
Supervised By :mohammad ahmed 12/14/2023

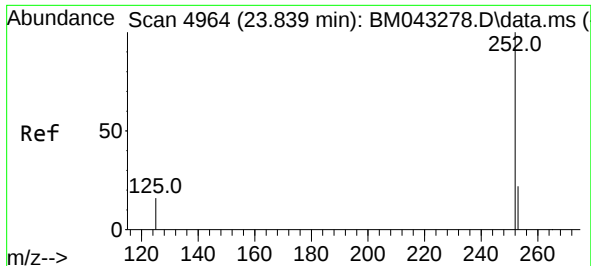


#25  
Benzo(k)fluoranthene  
Concen: 0.422 ng/ul m  
RT: 23.260 min Scan# 4766  
Delta R.T. -0.003 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22



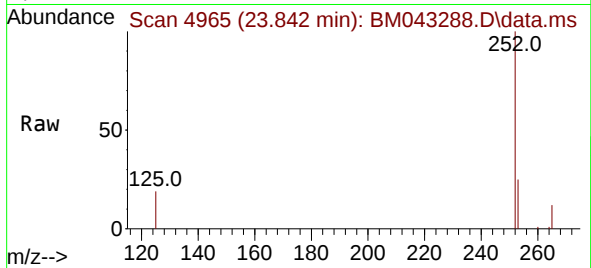
Tgt Ion:252 Resp: 35455  
Ion Ratio Lower Upper  
252 100  
253 24.4 18.6 28.0  
125 18.5 11.8 17.8#





#26  
Benzo(a)pyrene  
Concen: 0.434 ng/ul  
RT: 23.842 min Scan# 4965  
Delta R.T. -0.003 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22

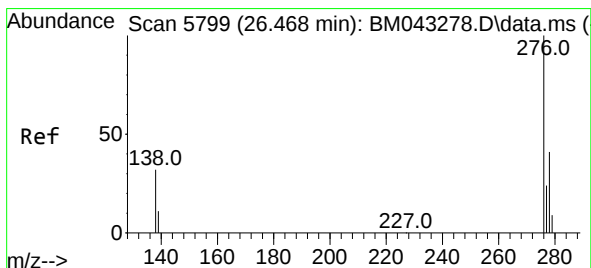
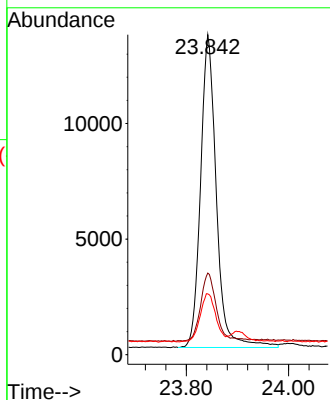
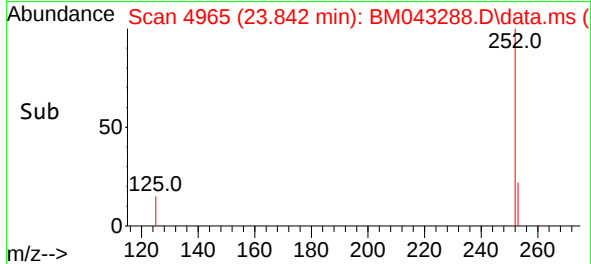
Instrument :  
BNA\_M  
ClientSampleId :  
YCH84MSD



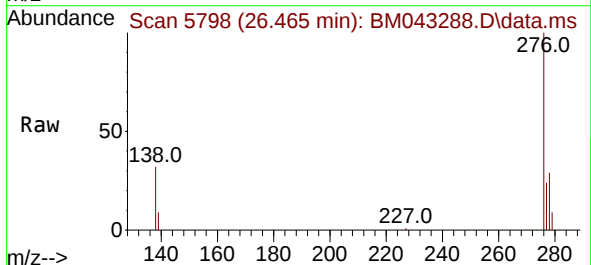
Tgt Ion:252 Resp: 29009  
Ion Ratio Lower Upper  
252 100  
253 25.5 20.2 30.2  
125 19.0 13.5 20.3

Manual Integrations  
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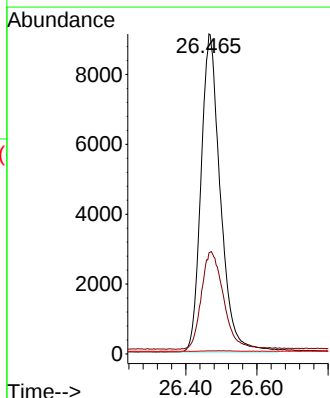
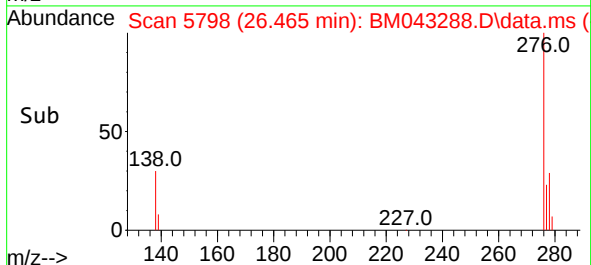
Reviewed By :Yogesh Patel 12/14/2023  
Supervised By :mohammad ahmed 12/14/2023

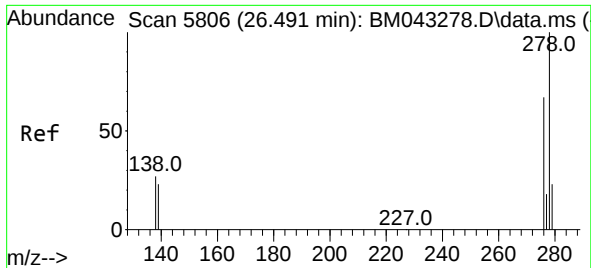


#27  
Indeno(1,2,3-cd)pyrene  
Concen: 0.451 ng/ul  
RT: 26.465 min Scan# 5798  
Delta R.T. -0.006 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22



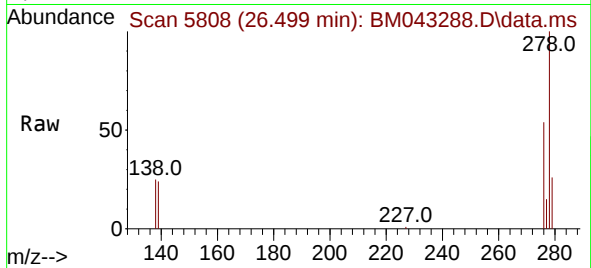
Tgt Ion:276 Resp: 34324  
Ion Ratio Lower Upper  
276 100  
138 35.4 24.6 36.8  
227 0.1 0.0 0.0#





#28  
Dibenzo(a,h)anthracene  
Concen: 0.456 ng/ul  
RT: 26.499 min Scan# 5806  
Delta R.T. -0.003 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22

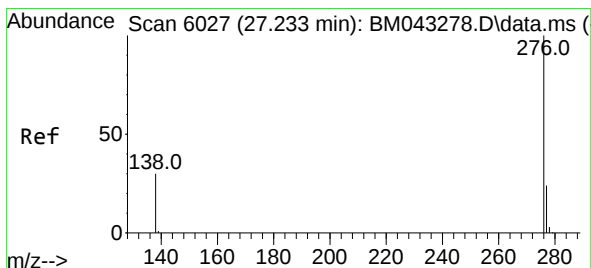
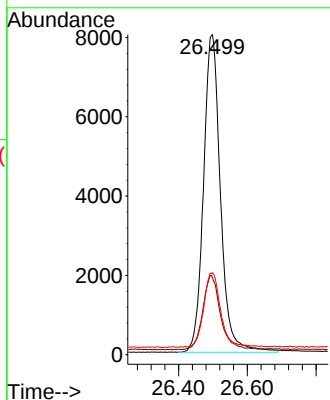
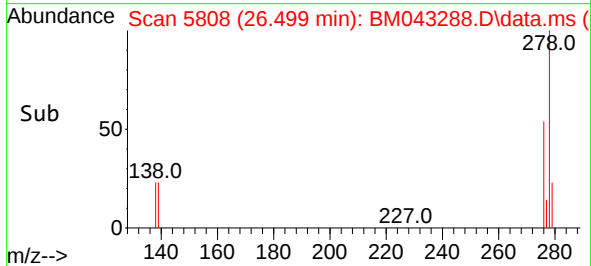
Instrument :  
BNA\_M  
ClientSampleId :  
YCH84MSD



Tgt Ion: 278 Resp: 2752  
Ion Ratio Lower Upper  
278 100  
139 24.1 17.4 26.2  
279 25.6 20.9 31.3

Manual Integrations  
APPROVED

Reviewed By : Yogesh Patel 12/14/2023  
Supervised By : mohammad ahmed 12/14/2023



#29  
Benzo(g,h,i)perylene  
Concen: 0.446 ng/ul  
RT: 27.240 min Scan# 6029  
Delta R.T. 0.000 min  
Lab File: BM043288.D  
Acq: 13 Dec 2023 06:22

Tgt Ion: 276 Resp: 28998  
Ion Ratio Lower Upper  
276 100  
138 30.6 23.1 34.7  
277 24.4 19.4 29.0

