

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041224\
 Data File : BN030866.D
 Acq On : 12 Apr 2024 17:11
 Operator : MA/JU
 Sample : P1908-21
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 04/16/2024
 Supervised By :mohammad ahmed 04/17/2024

Quant Time: Apr 12 17:35:29 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041224.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 12 15:55:57 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.675	152	4980	0.400	ng	0.00
7) Naphthalene-d8	10.453	136	14422	0.400	ng	0.00
13) Acenaphthene-d10	14.305	164	7770	0.400	ng	0.00
19) Phenanthrene-d10	17.065	188	17833	0.400	ng	0.00
29) Chrysene-d12	21.258	240	17505	0.400	ng	# 0.00
35) Perylene-d12	23.489	264	14738	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.270	112	4194	0.351	ng	0.00
5) Phenol-d6	6.844	99	5368	0.371	ng	0.00
8) Nitrobenzene-d5	8.819	82	3783	0.367	ng	0.00
11) 2-Methylnaphthalene-d10	12.043	152	9100	0.412	ng	0.00
14) 2,4,6-Tribromophenol	15.811	330	530	0.168	ng	0.00
15) 2-Fluorobiphenyl	12.926	172	11327	0.411	ng	0.00
27) Fluoranthene-d10	19.098	212	20755	0.419	ng	0.00
31) Terphenyl-d14	19.702	244	15542	0.390	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.496	128	307101	7.699	ng	99
12) 2-Methylnaphthalene	12.119	142	182896	7.009	ng	99
16) Acenaphthylene	14.027	152	559915	16.492	ng	100
17) Acenaphthene	14.370	154	195301	8.142	ng	97
18) Fluorene	15.364	166	102885	3.263	ng	100
25) Phenanthrene	17.102	178	181508	3.478	ng	100
26) Anthracene	17.189	178	41516	0.952	ng	100
28) Fluoranthene	19.126	202	96285	1.491	ng	100
30) Pyrene	19.493	202	130839	1.988	ng	99
32) Benzo(a)anthracene	21.240	228	87992	1.450	ng	99
33) Chrysene	21.294	228	57182	0.879	ng	99
36) Indeno(1,2,3-cd)pyrene	25.737	276	289389	5.020	ng	100
37) Benzo(b)fluoranthene	22.817	252	56011	0.858	ng	96
38) Benzo(k)fluoranthene	22.861	252	307810m	5.001	ng	
39) Benzo(a)pyrene	23.393	252	89399	1.779	ng	# 90
40) Dibenzo(a,h)anthracene	25.752	278	193395	4.224	ng	96
41) Benzo(g,h,i)perylene	26.422	276	122694	2.474	ng	98

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

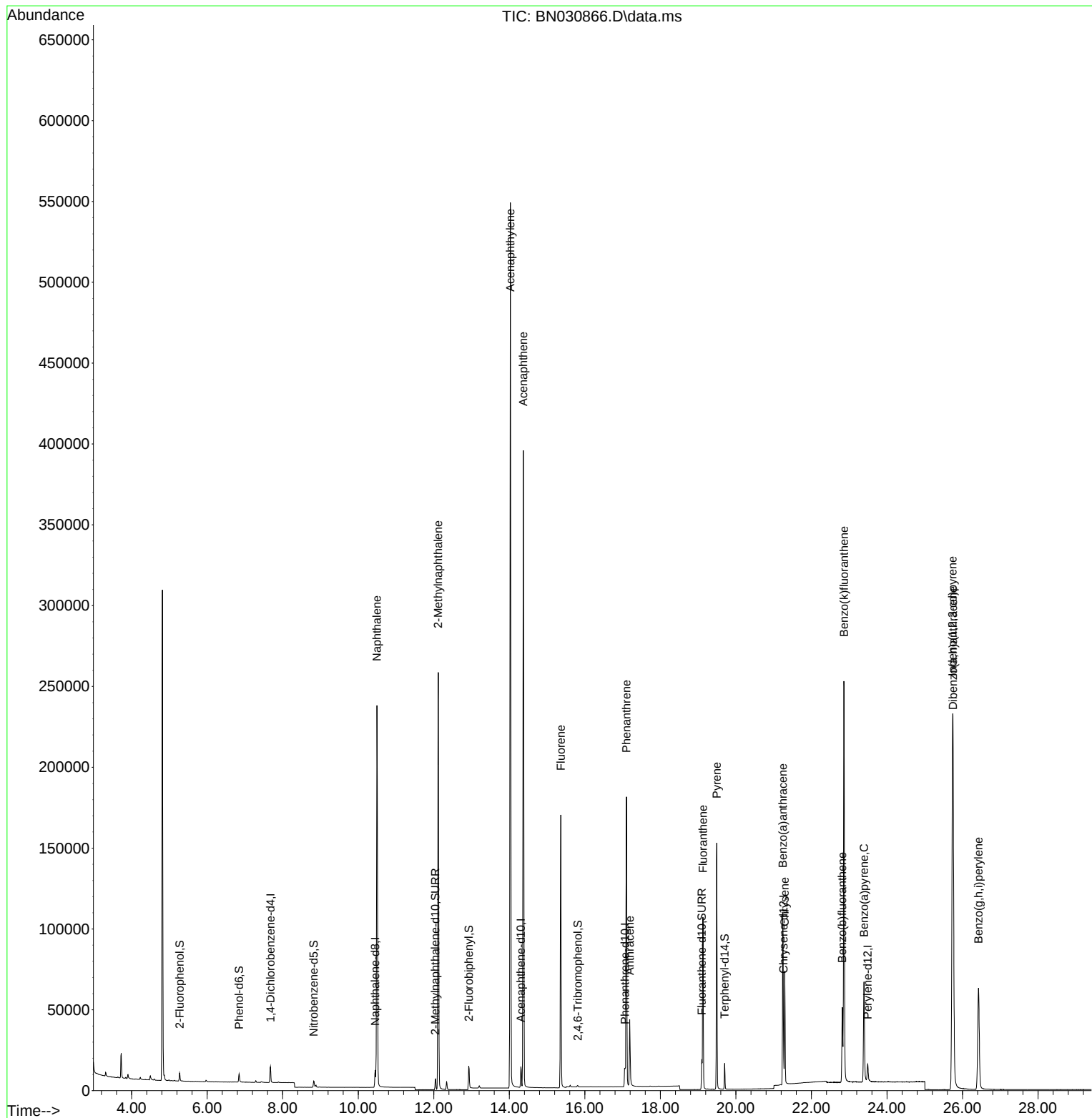
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041224\
Data File : BN030866.D
Acq On : 12 Apr 2024 17:11
Operator : MA/JU
Sample : P1908-21
Misc :
ALS Vial : 12 Sample Multiplier: 1

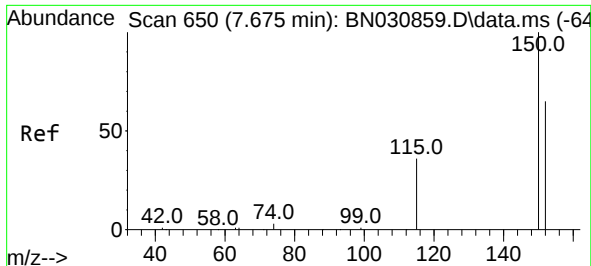
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024

Quant Time: Apr 12 17:35:29 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN041224.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 12 15:55:57 2024
Response via : Initial Calibration





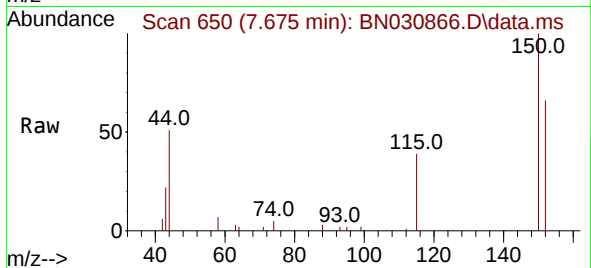
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.675 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP



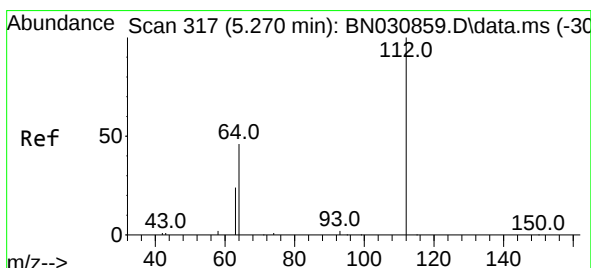
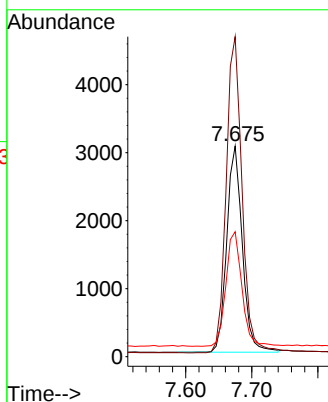
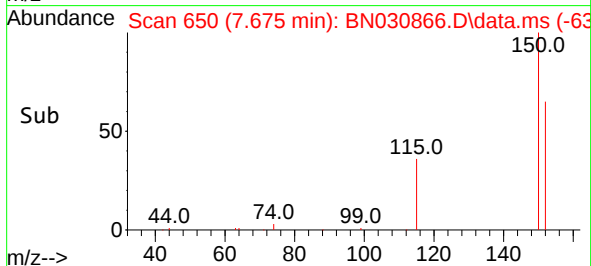
Tgt Ion:152 Resp: 4980
Ion Ratio Lower Upper
152 100
150 151.9 121.6 182.4
115 59.3 46.4 69.6

Manual Integrations

APPROVED

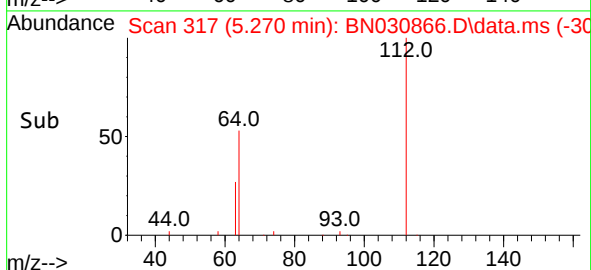
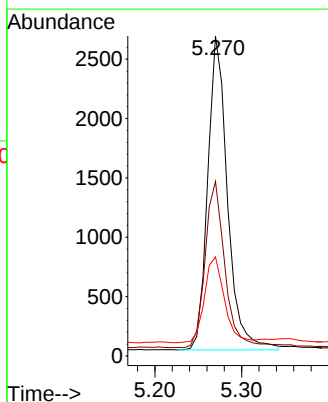
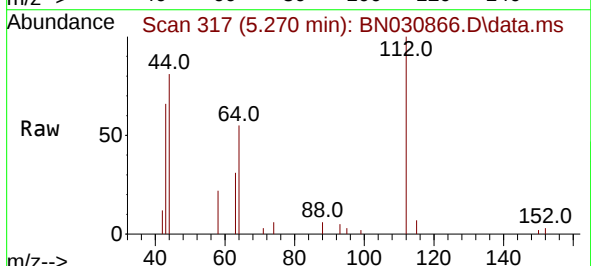
Reviewed By :Yogesh Patel 04/16/2024

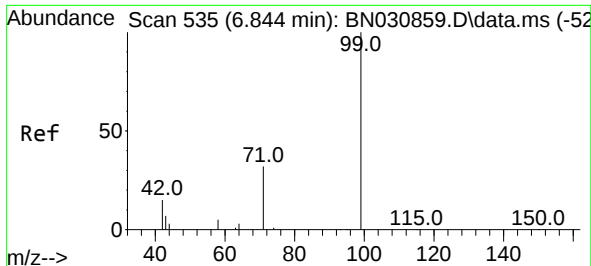
Supervised By :mohammad ahmed 04/17/2024



#4
2-Fluorophenol
Concen: 0.351 ng
RT: 5.270 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

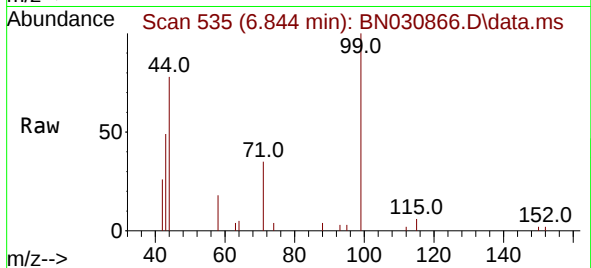
Tgt Ion:112 Resp: 4194
Ion Ratio Lower Upper
112 100
64 53.3 42.2 63.4
63 27.5 22.1 33.1





#5
Phenol-d6
Concen: 0.371 ng
RT: 6.844 min Scan# 535
Delta R.T. -0.000 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

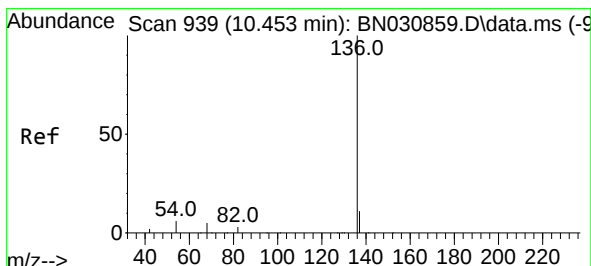
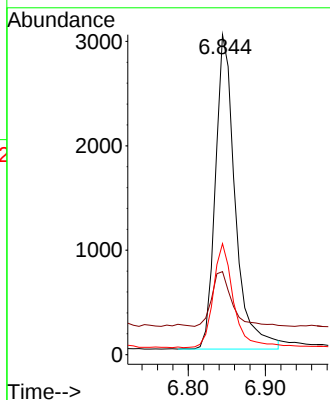
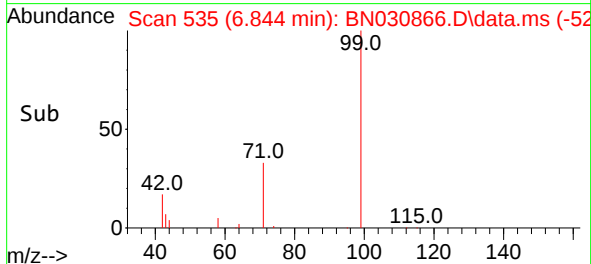
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



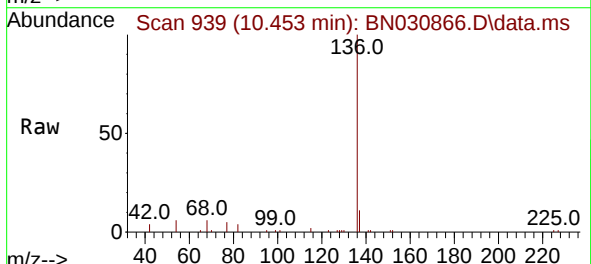
Tgt Ion: 99 Resp: 5368
Ion Ratio Lower Upper
99 100
42 17.7 15.3 22.9
71 33.8 26.4 39.6

Manual Integrations
APPROVED

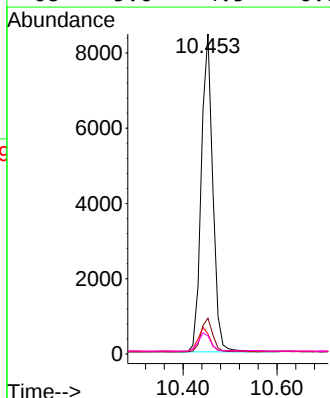
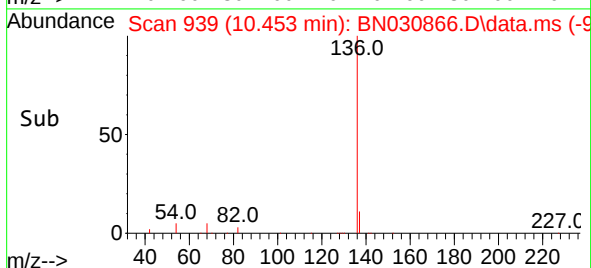
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024

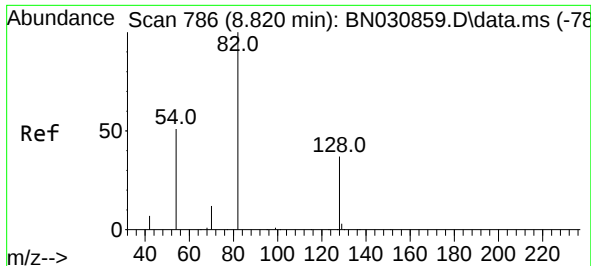


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.453 min Scan# 939
Delta R.T. -0.000 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11



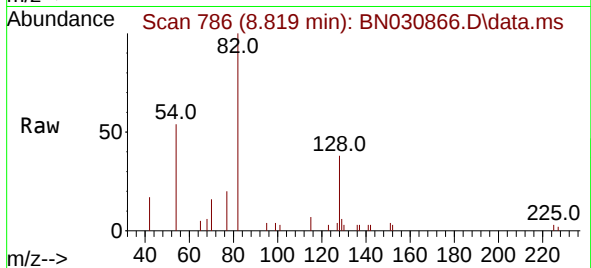
Tgt Ion:136 Resp: 14422
Ion Ratio Lower Upper
136 100
137 11.2 9.2 13.8
54 6.3 5.3 7.9
68 5.6 4.5 6.7





#8
Nitrobenzene-d5
Concen: 0.367 ng
RT: 8.819 min Scan# 786
Delta R.T. -0.000 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

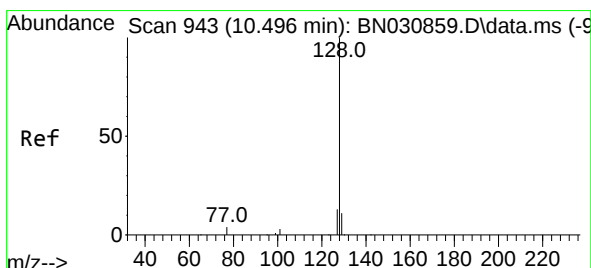
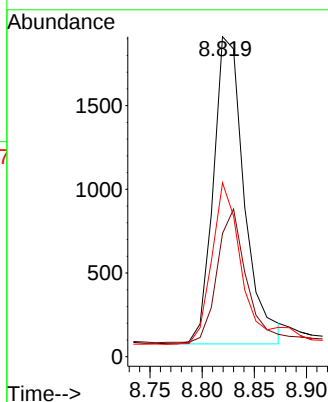
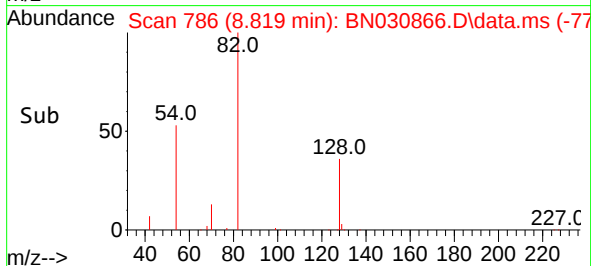
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



Tgt Ion: 82 Resp: 378
Ion Ratio Lower Upper
82 100
128 38.5 31.4 47.2
54 54.3 41.8 62.6

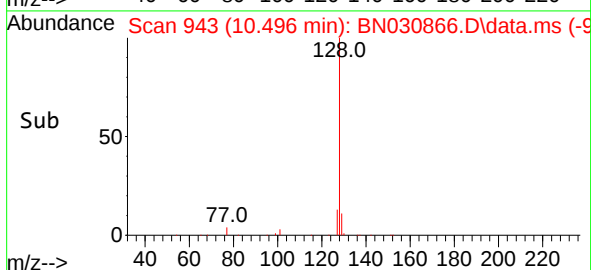
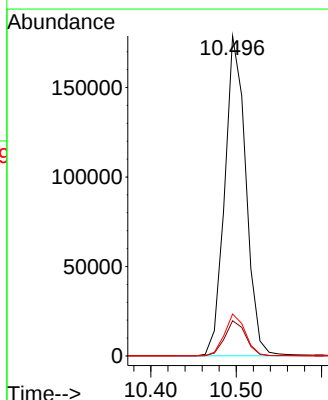
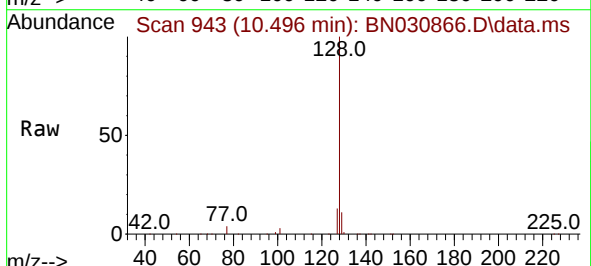
Manual Integrations
APPROVED

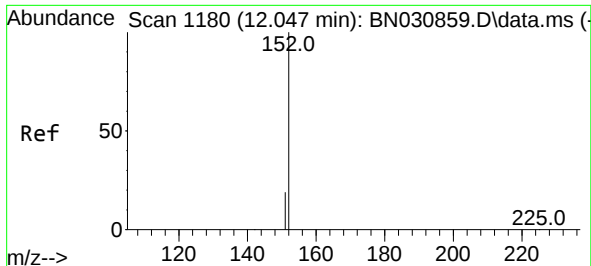
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#9
Naphthalene
Concen: 7.699 ng
RT: 10.496 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

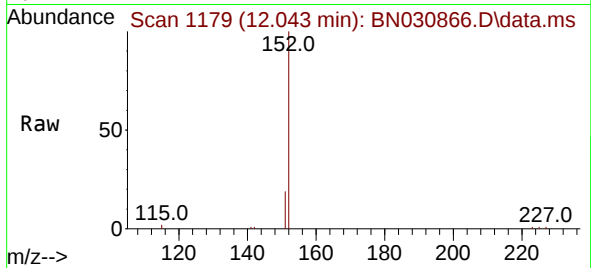
Tgt Ion:128 Resp: 307101
Ion Ratio Lower Upper
128 100
129 11.0 9.1 13.7
127 13.1 10.7 16.1





#11
2-Methylnaphthalene-d10
Concen: 0.412 ng
RT: 12.043 min Scan# 1180
Delta R.T. -0.004 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

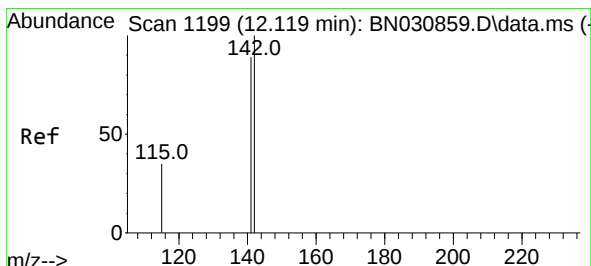
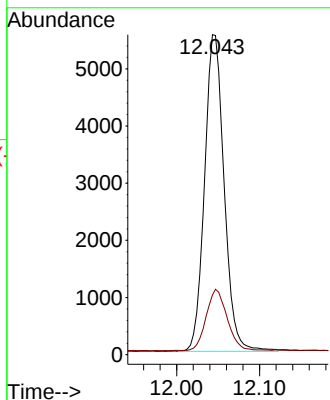
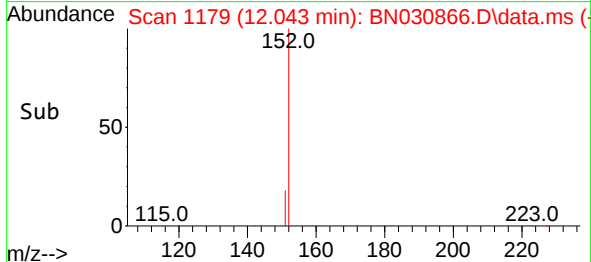
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



Tgt Ion:152 Resp: 9100
Ion Ratio Lower Upper
152 100
151 20.6 16.6 24.8

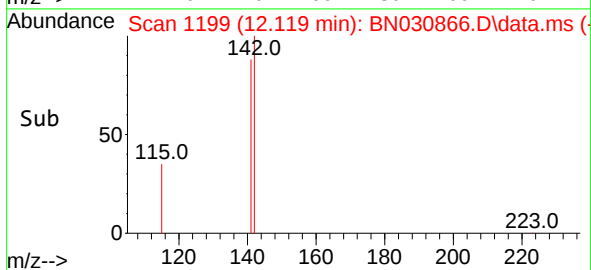
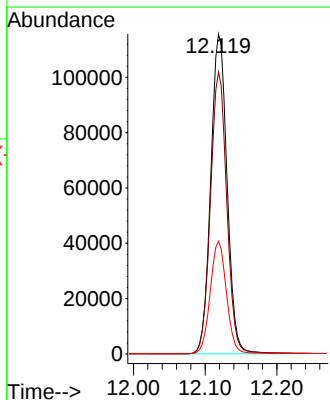
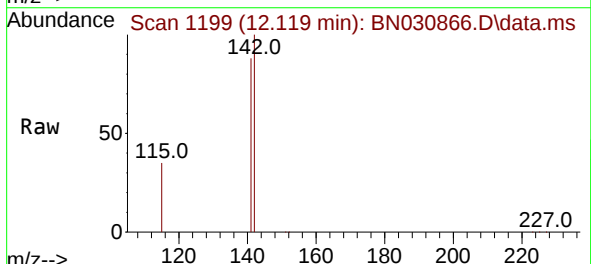
Manual Integrations
APPROVED

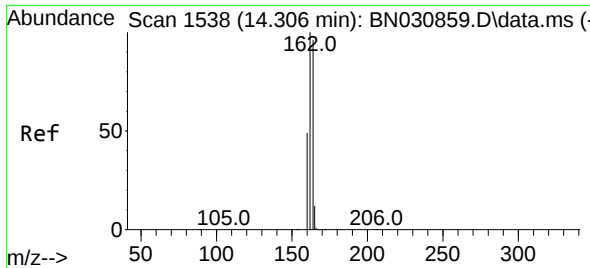
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#12
2-Methylnaphthalene
Concen: 7.009 ng
RT: 12.119 min Scan# 1199
Delta R.T. -0.000 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

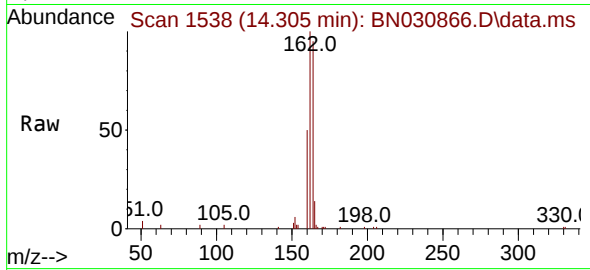
Tgt Ion:142 Resp: 182896
Ion Ratio Lower Upper
142 100
141 88.2 71.4 107.0
115 35.2 29.1 43.7





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.305 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

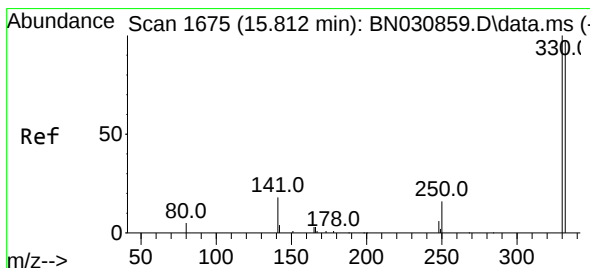
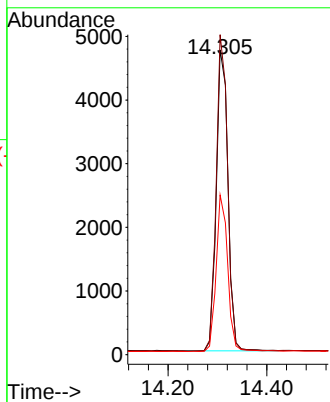
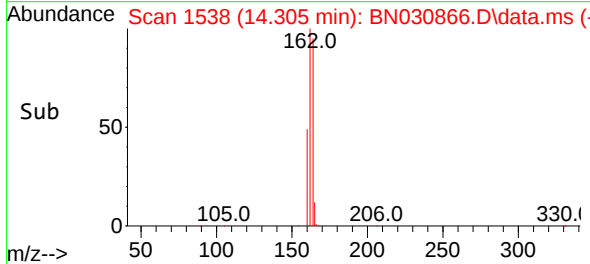
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



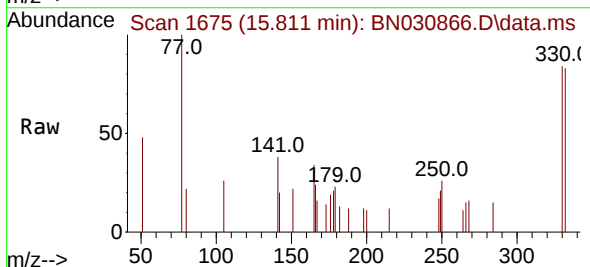
Tgt Ion:164 Resp: 7770
Ion Ratio Lower Upper
164 100
162 105.0 83.7 125.5
160 52.4 41.4 62.0

Manual Integrations
APPROVED

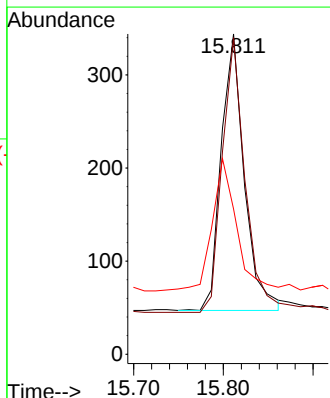
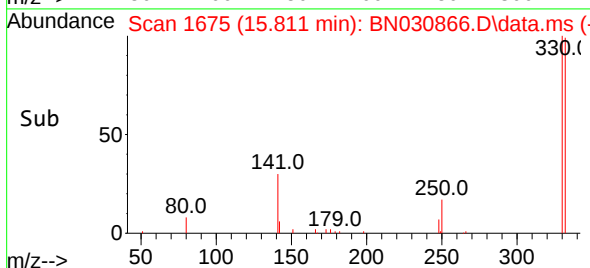
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024

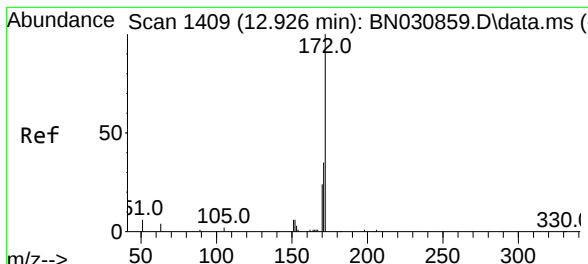


#14
2,4,6-Tribromophenol
Concen: 0.168 ng
RT: 15.811 min Scan# 1675
Delta R.T. -0.000 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11



Tgt Ion:330 Resp: 530
Ion Ratio Lower Upper
330 100
332 98.3 76.4 114.6
141 48.7 36.7 55.1





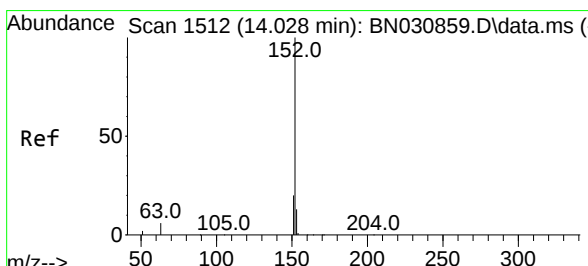
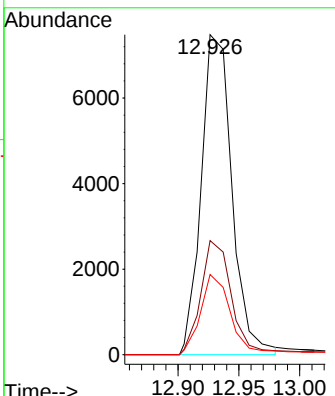
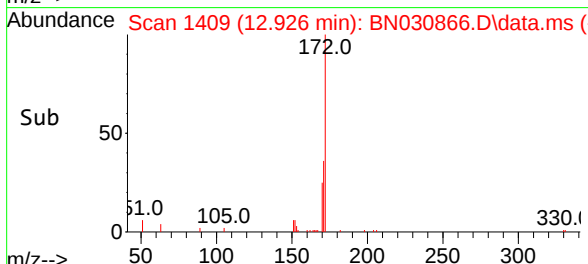
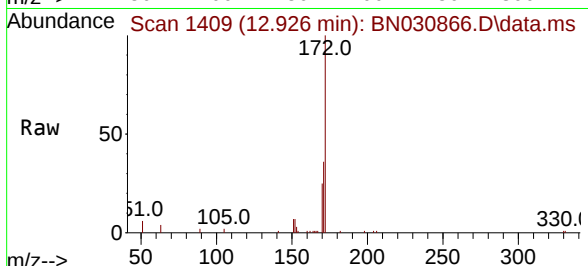
#15
 2-Fluorobiphenyl
 Concen: 0.411 ng
 RT: 12.926 min Scan# 1409
 Delta R.T. -0.000 min
 Lab File: BN030866.D
 Acq: 12 Apr 2024 17:11

Instrument : BNA_N
 ClientSampleId : RR-PAH-WP

Tgt Ion:	172	Resp:	1132
Ion Ratio	Lower	Upper	
172	100		
171	35.6	28.4	42.6
170	25.1	19.5	29.3

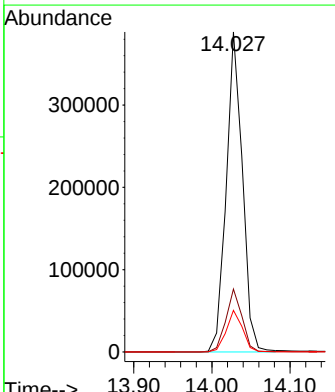
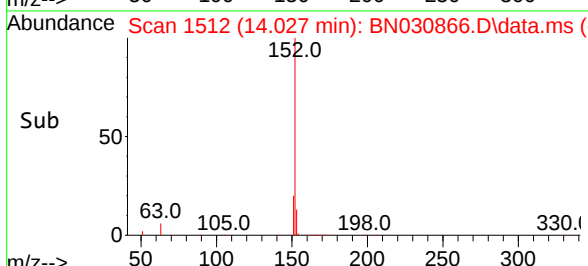
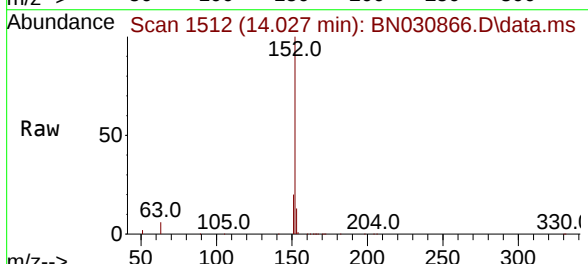
Manual Integrations
 APPROVED

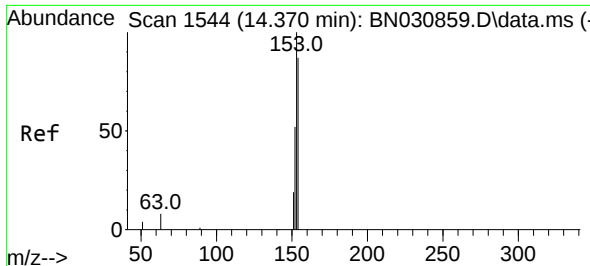
Reviewed By :Yogesh Patel 04/16/2024
 Supervised By :mohammad ahmed 04/17/2024



#16
 Acenaphthylene
 Concen: 16.492 ng
 RT: 14.027 min Scan# 1512
 Delta R.T. -0.000 min
 Lab File: BN030866.D
 Acq: 12 Apr 2024 17:11

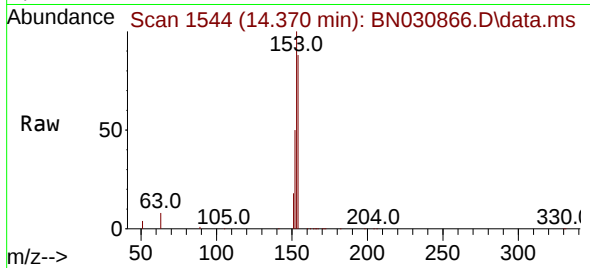
Tgt Ion:	152	Resp:	559915
Ion Ratio	Lower	Upper	
152	100		
151	19.5	15.6	23.4
153	13.0	10.3	15.5





#17
Acenaphthene
Concen: 8.142 ng
RT: 14.370 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

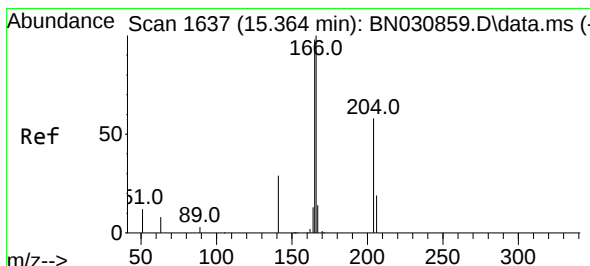
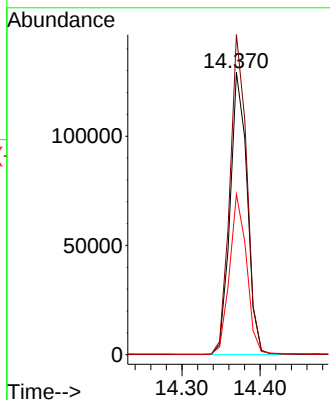
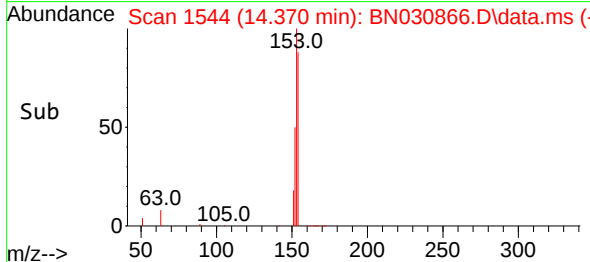
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



Tgt Ion:154 Resp: 19530
Ion Ratio Lower Upper
154 100
153 112.4 91.7 137.5
152 56.2 47.0 70.6

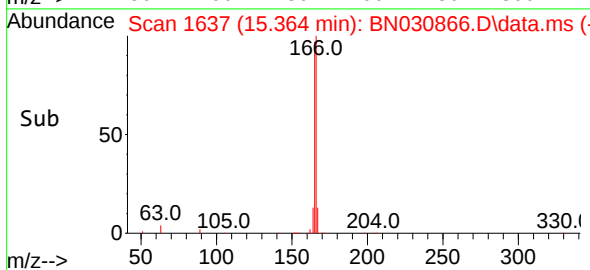
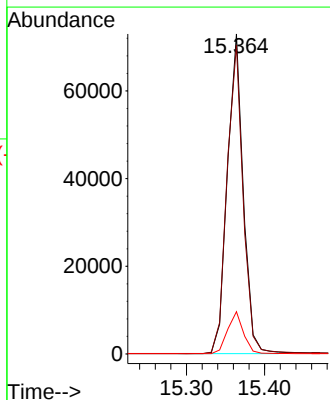
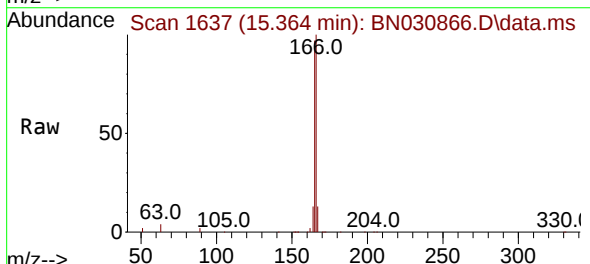
Manual Integrations
APPROVED

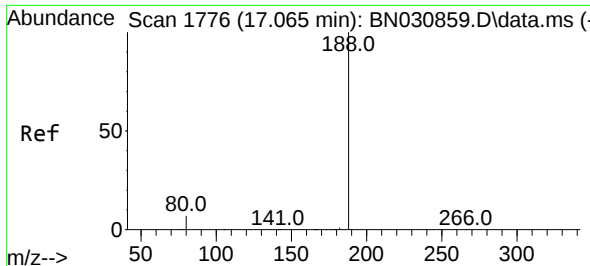
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#18
Fluorene
Concen: 3.263 ng
RT: 15.364 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

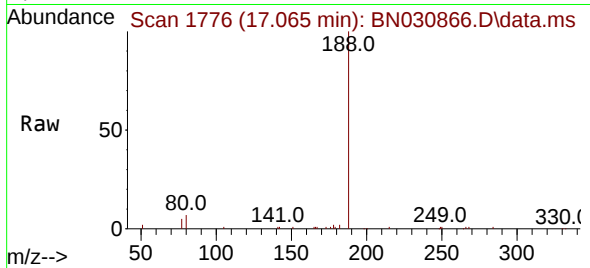
Tgt Ion:166 Resp: 102885
Ion Ratio Lower Upper
166 100
165 97.7 77.9 116.9
167 13.2 10.9 16.3





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.065 min Scan# 1776
Delta R.T. 0.000 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

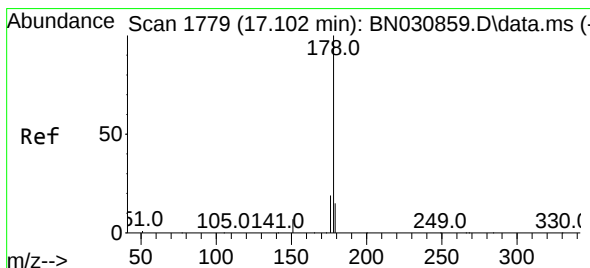
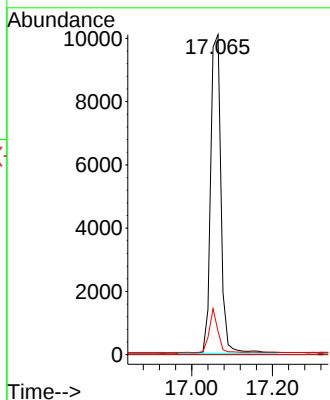
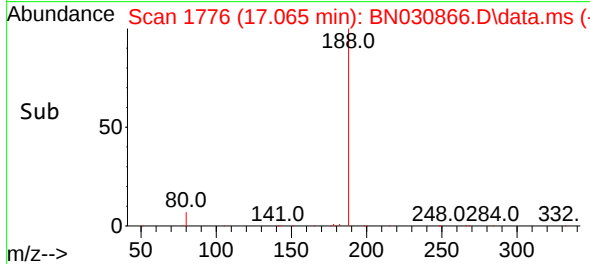
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



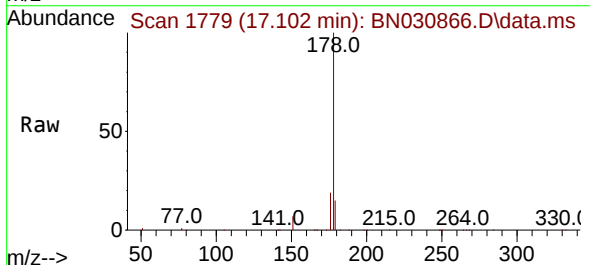
Tgt Ion:188 Resp: 1783
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.3 5.8 8.6

Manual Integrations
APPROVED

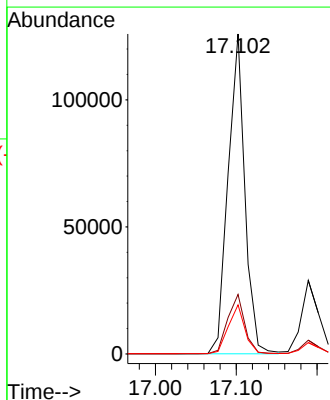
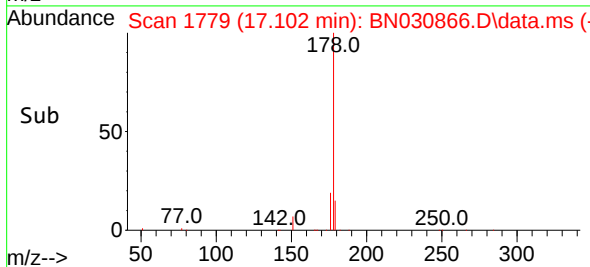
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024

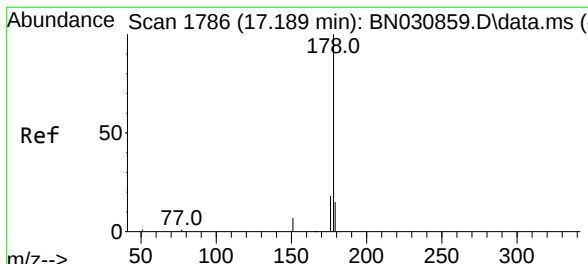


#25
Phenanthrene
Concen: 3.478 ng
RT: 17.102 min Scan# 1779
Delta R.T. -0.000 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11



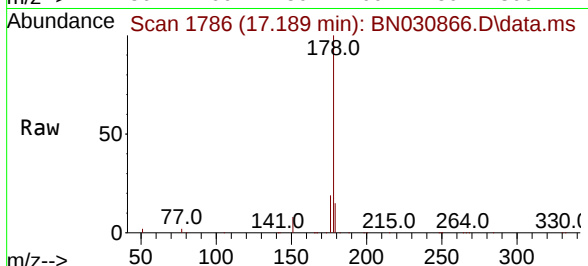
Tgt Ion:178 Resp: 181508
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.2 12.3 18.5





#26
 Anthracene
 Concen: 0.952 ng
 RT: 17.189 min Scan# 1786
 Delta R.T. -0.000 min
 Lab File: BN030866.D
 Acq: 12 Apr 2024 17:11

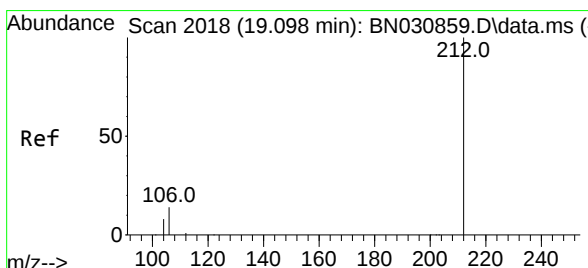
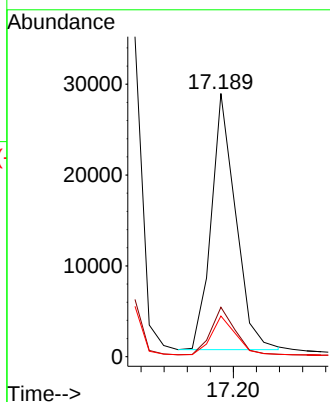
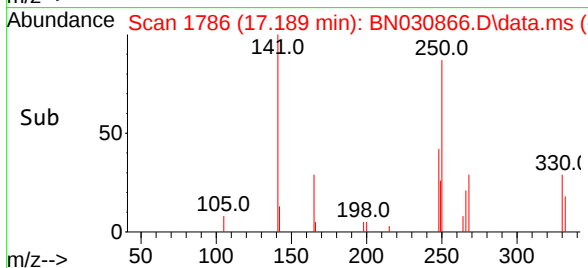
Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP



Tgt Ion:178	Resp:	41510
Ion Ratio	Lower	Upper
178	100	
176	18.4	14.7 22.1
179	15.2	12.2 18.2

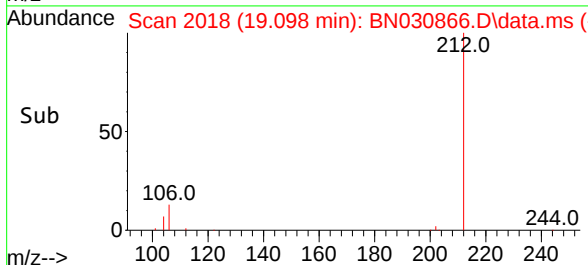
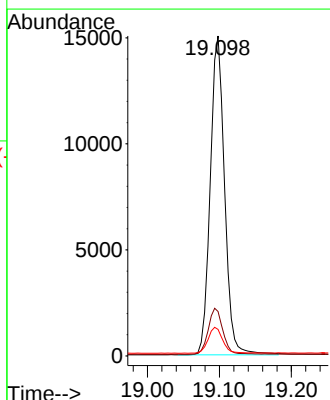
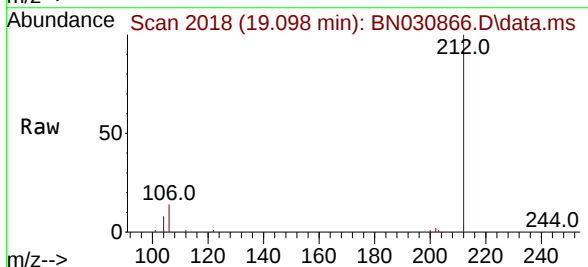
Manual Integrations
 APPROVED

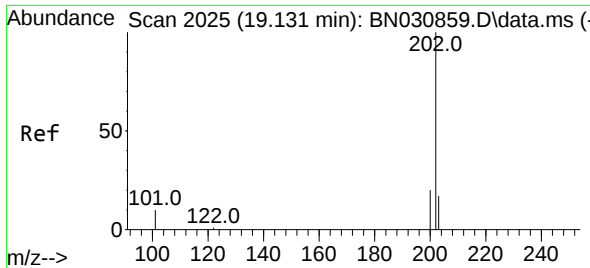
Reviewed By :Yogesh Patel 04/16/2024
 Supervised By :mohammad ahmed 04/17/2024



#27
 Fluoranthene-d10
 Concen: 0.419 ng
 RT: 19.098 min Scan# 2018
 Delta R.T. -0.000 min
 Lab File: BN030866.D
 Acq: 12 Apr 2024 17:11

Tgt Ion:212	Resp:	20755
Ion Ratio	Lower	Upper
212	100	
106	14.7	11.8 17.8
104	8.2	6.6 10.0





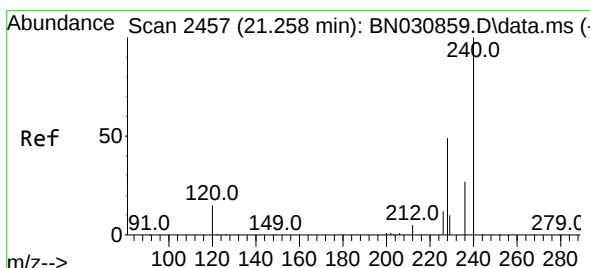
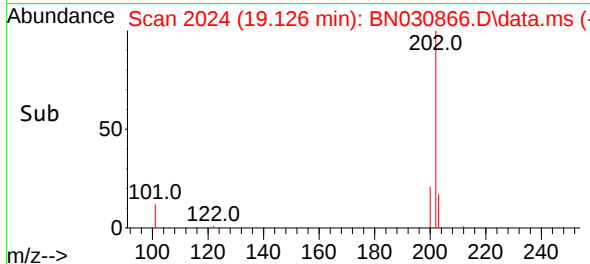
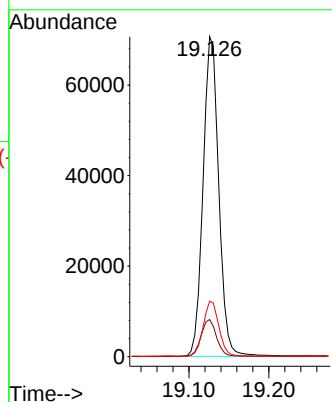
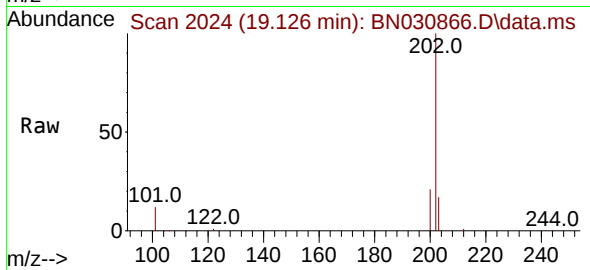
#28
Fluoranthene
Concen: 1.491 ng
RT: 19.126 min Scan# 2024
Delta R.T. -0.005 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tgt Ion:202 Resp: 96285
Ion Ratio Lower Upper
202 100
101 11.5 9.4 14.2
203 17.2 13.7 20.5

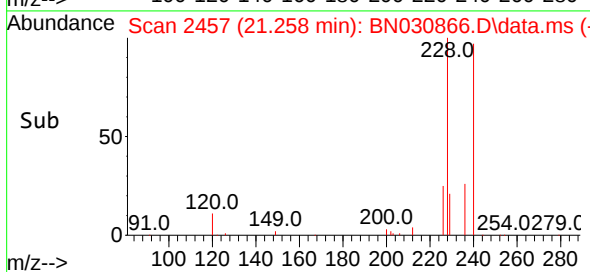
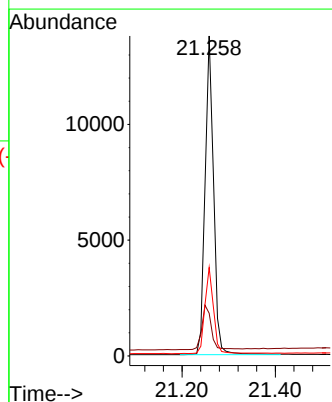
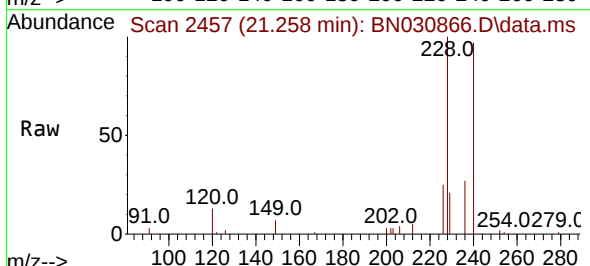
Manual Integrations
APPROVED

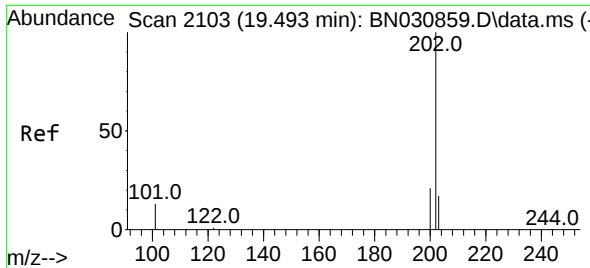
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.258 min Scan# 2457
Delta R.T. -0.000 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

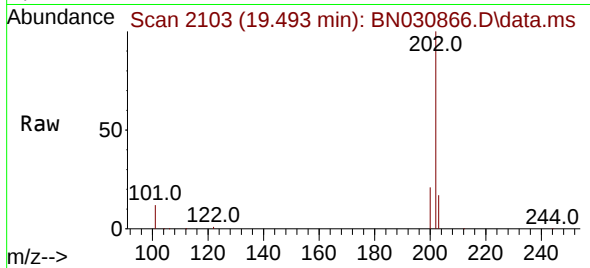
Tgt Ion:240 Resp: 17505
Ion Ratio Lower Upper
240 100
120 13.4 13.5 20.3#
236 27.6 22.2 33.2





#30
Pyrene
Concen: 1.988 ng
RT: 19.493 min Scan# 2103
Delta R.T. -0.000 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

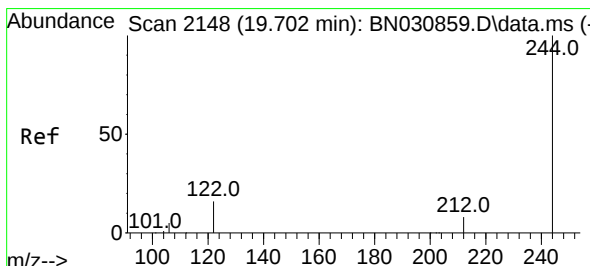
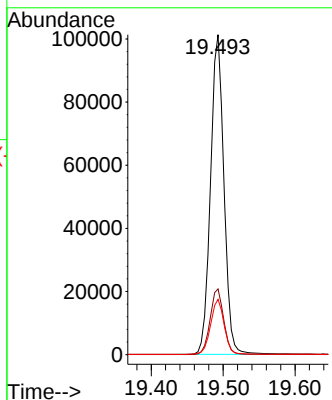
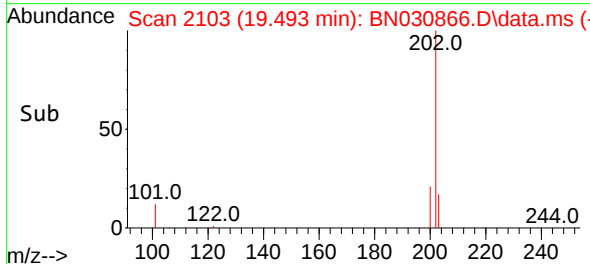
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



Tgt Ion:202 Resp: 130839
Ion Ratio Lower Upper
202 100
200 20.7 16.6 24.8
203 17.4 14.4 21.6

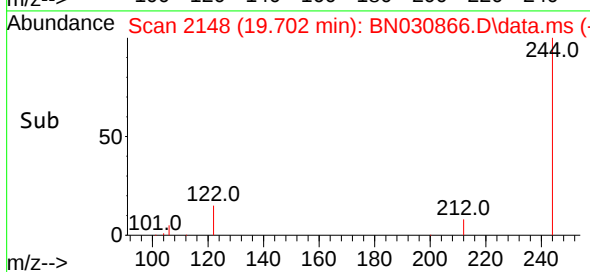
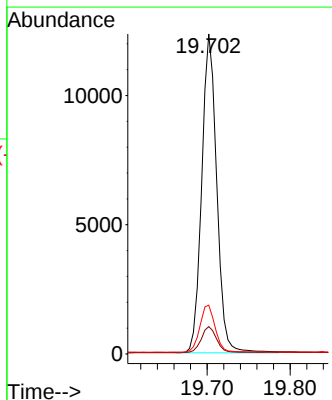
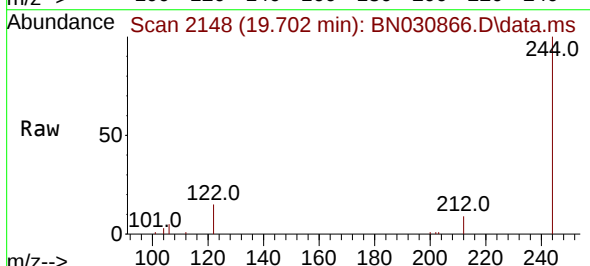
Manual Integrations
APPROVED

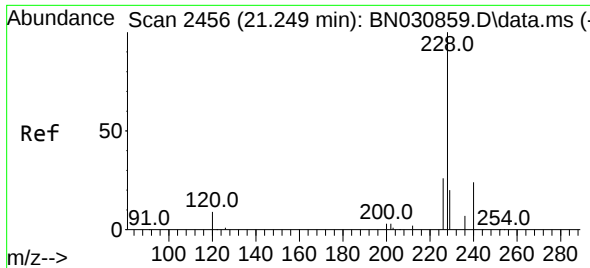
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#31
Terphenyl-d14
Concen: 0.390 ng
RT: 19.702 min Scan# 2148
Delta R.T. -0.000 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

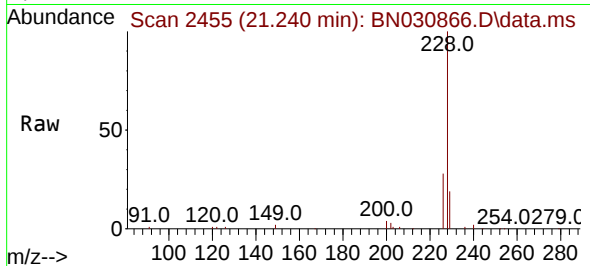
Tgt Ion:244 Resp: 15542
Ion Ratio Lower Upper
244 100
212 8.5 6.7 10.1
122 15.3 12.8 19.2





#32
Benzo(a)anthracene
Concen: 1.450 ng
RT: 21.240 min Scan# 2455
Delta R.T. -0.009 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

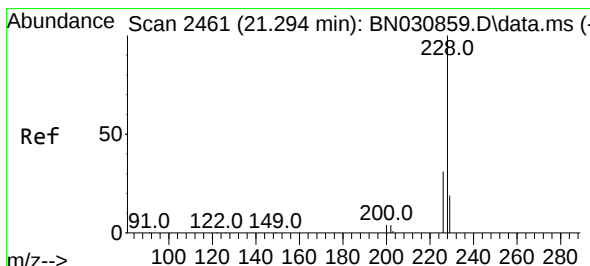
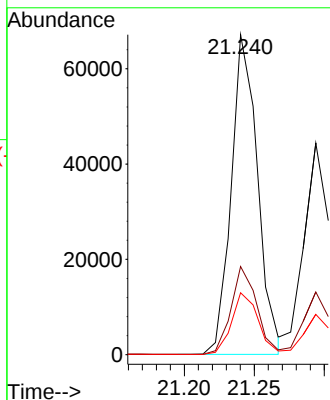
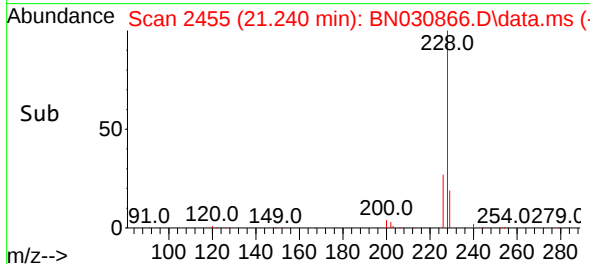
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



Tgt Ion:228 Resp: 87992
Ion Ratio Lower Upper
228 100
226 27.5 21.3 31.9
229 19.3 15.8 23.8

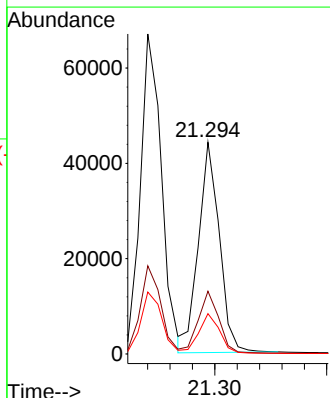
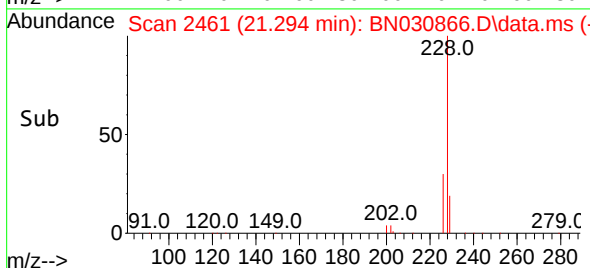
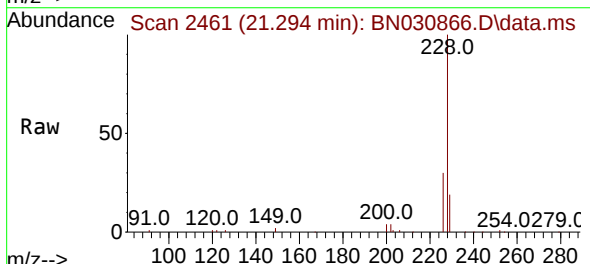
Manual Integrations
APPROVED

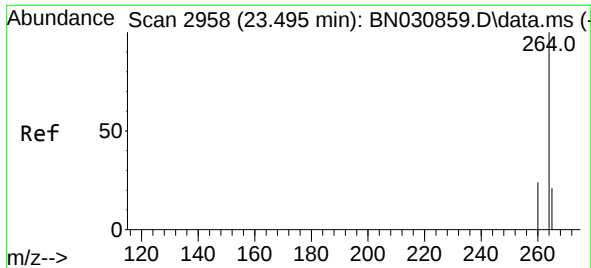
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#33
Chrysene
Concen: 0.879 ng
RT: 21.294 min Scan# 2461
Delta R.T. -0.000 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

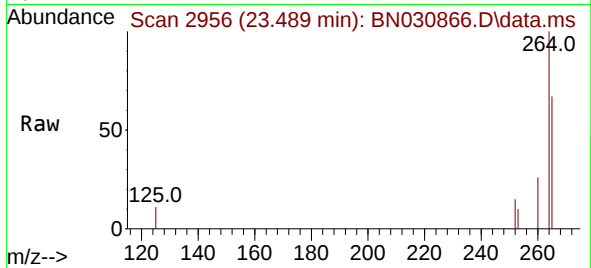
Tgt Ion:228 Resp: 57182
Ion Ratio Lower Upper
228 100
226 29.6 24.6 36.8
229 19.1 15.2 22.8





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.489 min Scan# 2956
Delta R.T. -0.006 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

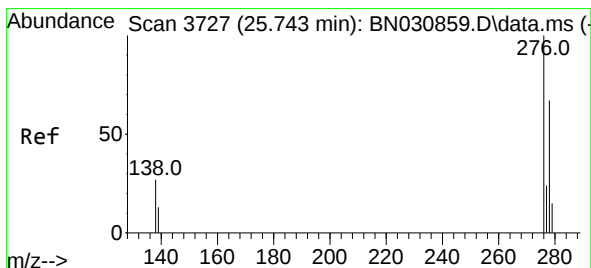
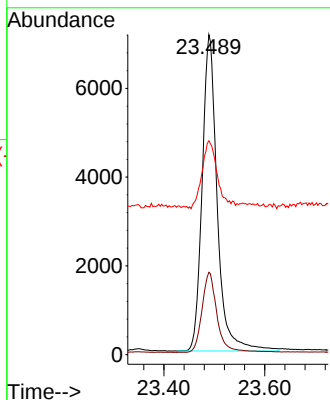
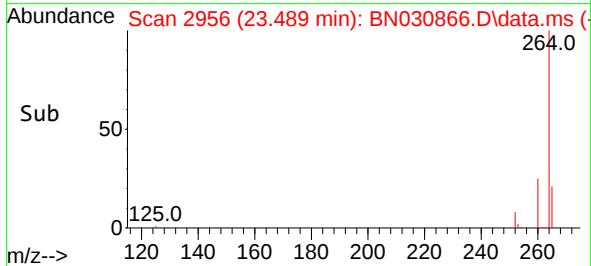
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



Tgt Ion:264 Resp: 14738
Ion Ratio Lower Upper
264 100
260 25.7 19.8 29.8
265 66.8 42.5 63.7

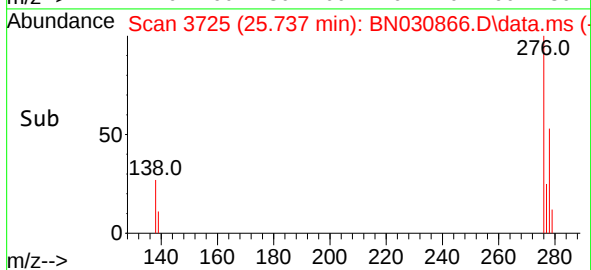
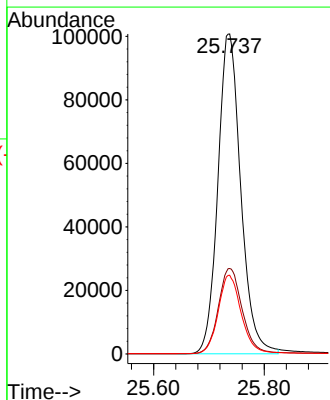
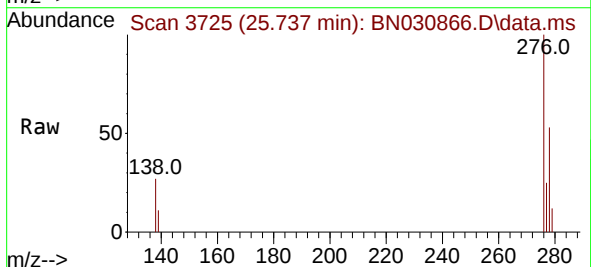
Manual Integrations
APPROVED

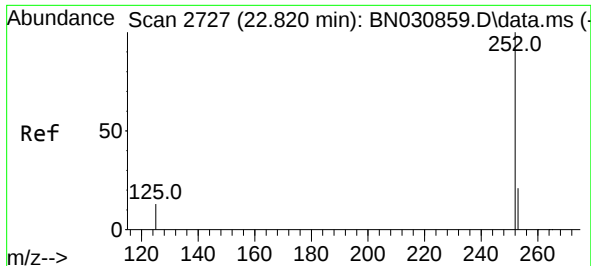
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#36
Indeno(1,2,3-cd)pyrene
Concen: 5.020 ng
RT: 25.737 min Scan# 3725
Delta R.T. -0.006 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

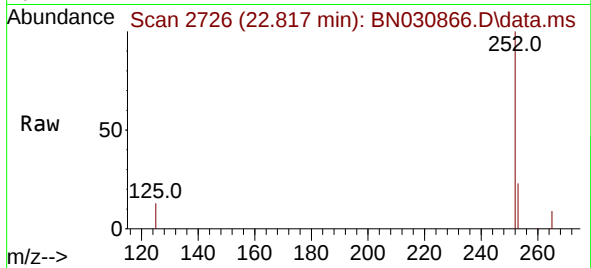
Tgt Ion:276 Resp: 289389
Ion Ratio Lower Upper
276 100
138 27.7 22.2 33.4
277 24.7 20.0 30.0





#37
Benzo(b)fluoranthene
Concen: 0.858 ng
RT: 22.817 min Scan# 2717
Delta R.T. -0.003 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

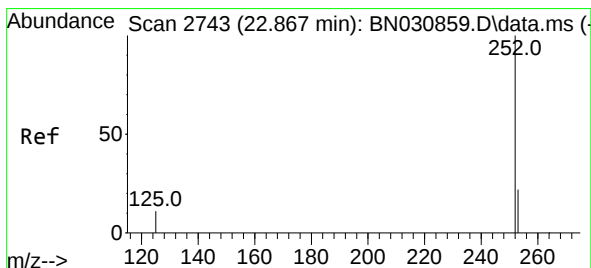
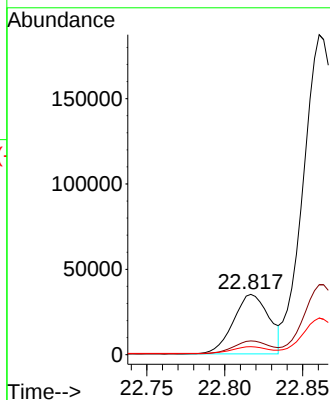
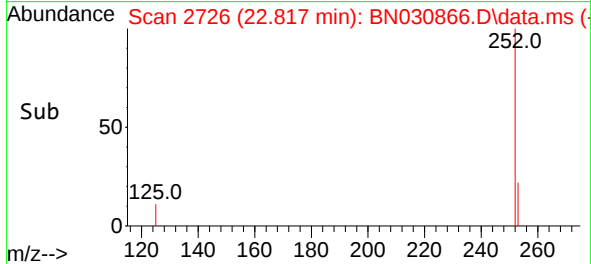
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



Tgt Ion:252 Resp: 56011
Ion Ratio Lower Upper
252 100
253 22.9 18.8 28.2
125 13.3 13.0 19.6

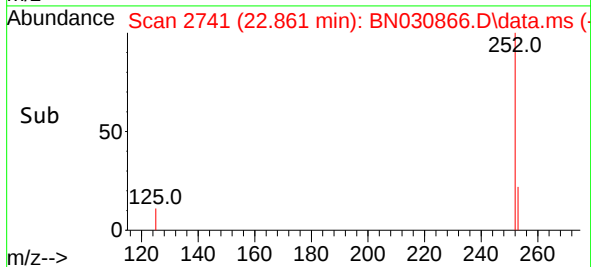
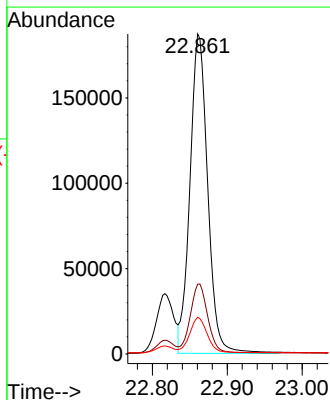
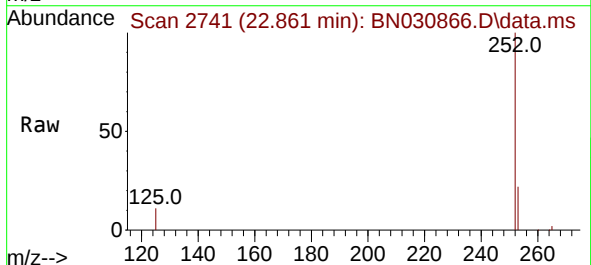
Manual Integrations
APPROVED

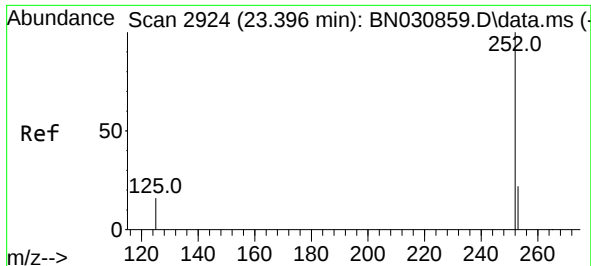
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#38
Benzo(k)fluoranthene
Concen: 5.001 ng m
RT: 22.861 min Scan# 2741
Delta R.T. -0.006 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

Tgt Ion:252 Resp: 307810
Ion Ratio Lower Upper
252 100
253 21.8 19.1 28.7
125 11.5 11.6 17.4#





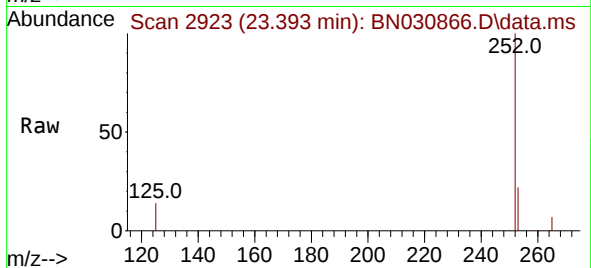
#39
Benzo(a)pyrene
Concen: 1.779 ng
RT: 23.393 min Scan# 2923
Delta R.T. -0.003 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WP



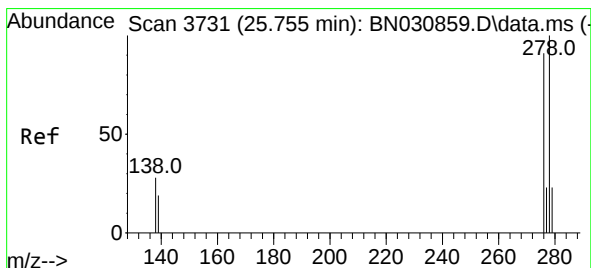
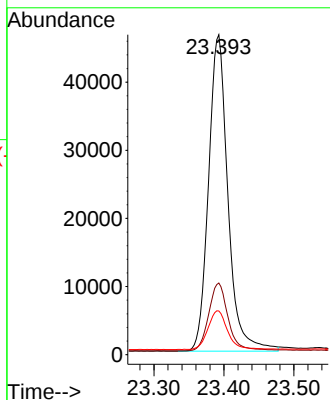
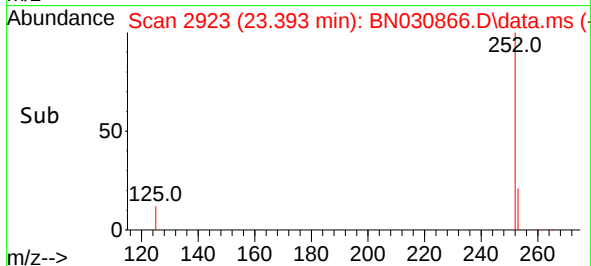
Tgt Ion:252 Resp: 89395
Ion Ratio Lower Upper
252 100
253 22.4 20.2 30.4
125 13.6 16.6 25.0

Manual Integrations

APPROVED

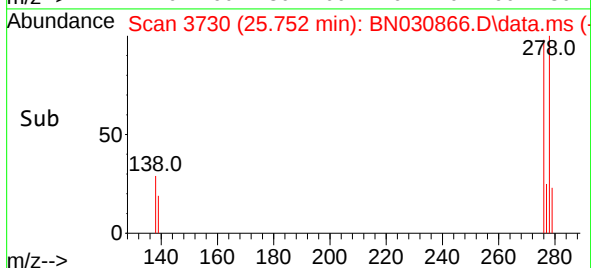
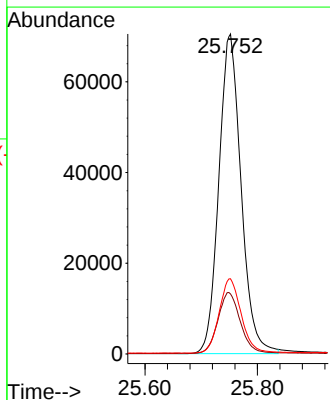
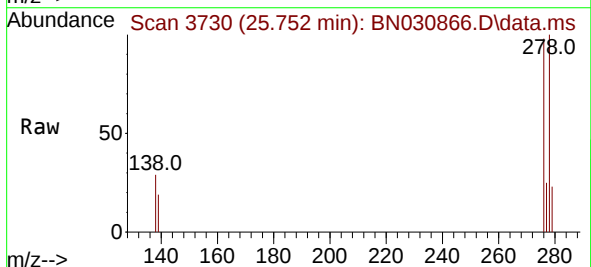
Reviewed By :Yogesh Patel 04/16/2024

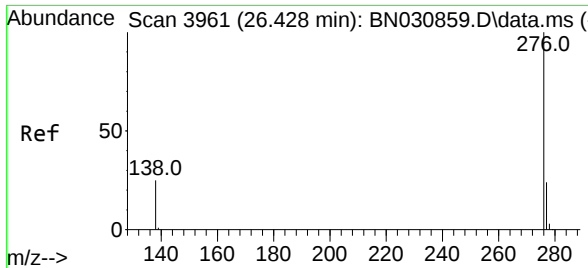
Supervised By :mohammad ahmed 04/17/2024



#40
Dibenzo(a,h)anthracene
Concen: 4.224 ng
RT: 25.752 min Scan# 3730
Delta R.T. -0.003 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

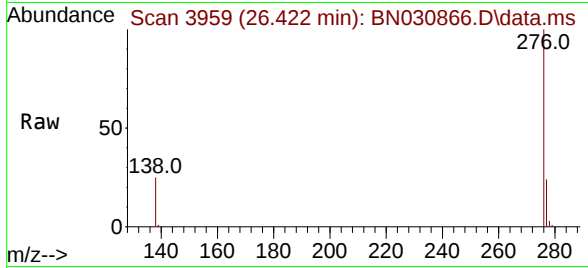
Tgt Ion:278 Resp: 193395
Ion Ratio Lower Upper
278 100
139 18.7 16.5 24.7
279 23.5 20.6 30.8





#41
Benzo(g,h,i)perylene
Concen: 2.474 ng
RT: 26.422 min Scan# 3959
Delta R.T. -0.006 min
Lab File: BN030866.D
Acq: 12 Apr 2024 17:11

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



Tgt Ion:276 Resp: 122694
Ion Ratio Lower Upper
276 100
277 23.7 19.8 29.8
138 25.1 21.2 31.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024

