

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041224\
 Data File : BN030867.D
 Acq On : 12 Apr 2024 17:47
 Operator : MA/JU
 Sample : P1908-21DL 5X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

Manual Integrations
 APPROVED

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

Quant Time: Apr 12 19:08:41 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	5386	0.400	ng	0.00
7) Naphthalene-d8	10.453	136	15645	0.400	ng	0.00
13) Acenaphthene-d10	14.305	164	8329	0.400	ng	0.00
19) Phenanthrene-d10	17.065	188	19279	0.400	ng	0.00
29) Chrysene-d12	21.258	240	17687	0.400	ng	0.00
35) Perylene-d12	23.489	264	15450	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.270	112	776	0.060	ng	0.00
5) Phenol-d6	6.852	99	941	0.060	ng	0.00
8) Nitrobenzene-d5	8.830	82	670	0.060	ng	0.01
11) 2-Methylnaphthalene-d10	12.047	152	1755	0.073	ng	0.00
14) 2,4,6-Tribromophenol	15.811	330	98	0.029	ng	0.00
15) 2-Fluorobiphenyl	12.937	172	2289	0.078	ng	0.01
27) Fluoranthene-d10	19.098	212	3880	0.072	ng	0.00
31) Terphenyl-d14	19.702	244	2905	0.072	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.496	128	58127	1.343	ng	99
12) 2-Methylnaphthalene	12.119	142	34129	1.206	ng	100
16) Acenaphthylene	14.027	152	91935	2.526	ng	100
17) Acenaphthene	14.370	154	35706	1.389	ng	99
18) Fluorene	15.364	166	18344	0.543	ng	100
25) Phenanthrene	17.102	178	33117	0.587	ng	100
26) Anthracene	17.189	178	6870	0.146	ng	100
28) Fluoranthene	19.126	202	17025	0.244	ng	99
30) Pyrene	19.493	202	23381	0.352	ng	100
32) Benzo(a)anthracene	21.240	228	15079	0.246	ng	98
33) Chrysene	21.294	228	10509	0.160	ng	99
36) Indeno(1,2,3-cd)pyrene	25.737	276	47063	0.779	ng	99
37) Benzo(b)fluoranthene	22.817	252	10549m	0.154	ng	
38) Benzo(k)fluoranthene	22.861	252	52635	0.816	ng	98
39) Benzo(a)pyrene	23.390	252	15045	0.286	ng	96
40) Dibenzo(a,h)anthracene	25.752	278	31472	0.656	ng	98
41) Benzo(g,h,i)perylene	26.425	276	21141	0.407	ng	98

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

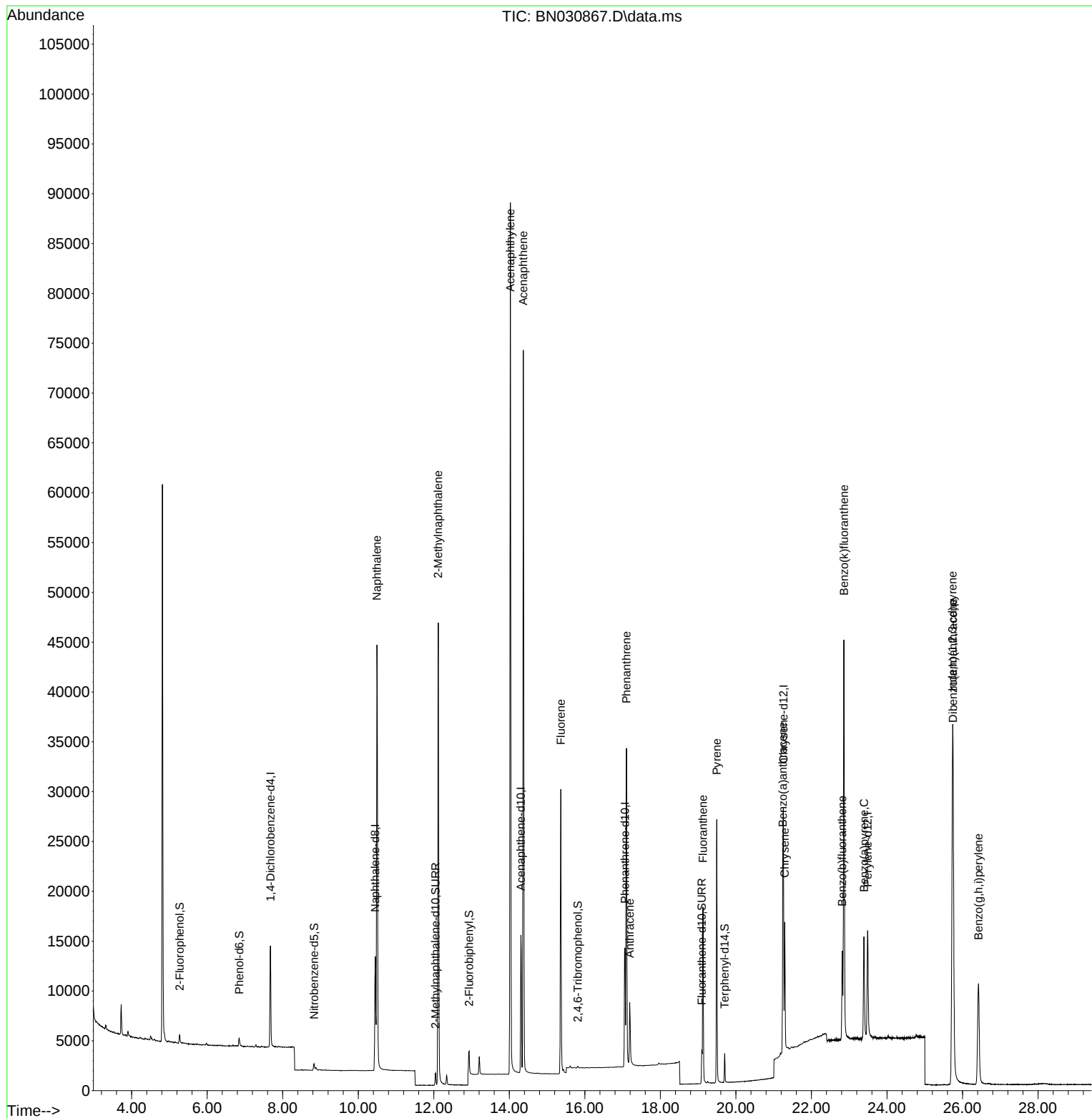
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN041224\
Data File : BN030867.D
Acq On : 12 Apr 2024 17:47
Operator : MA/JU
Sample : P1908-21DL 5X
Misc :
ALS Vial : 13 Sample Multiplier: 1

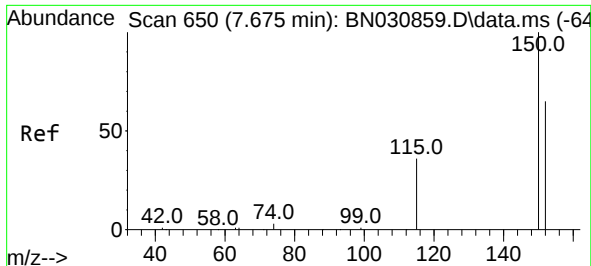
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Manual Integrations
APPROVED

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

Quant Time: Apr 12 19:08:41 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





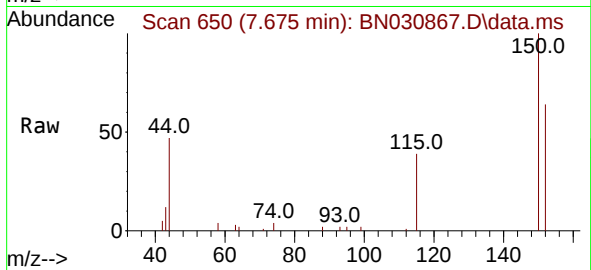
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.675 min Scan# 612
Delta R.T. -0.000 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL



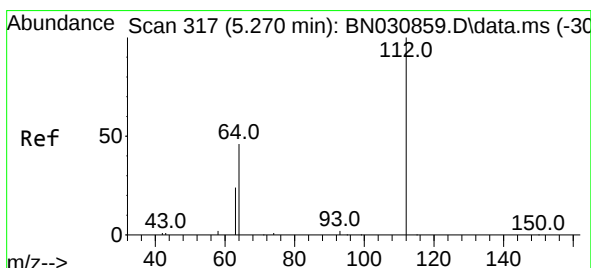
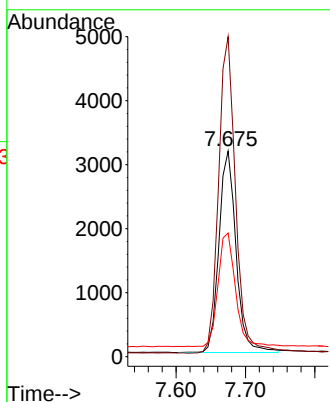
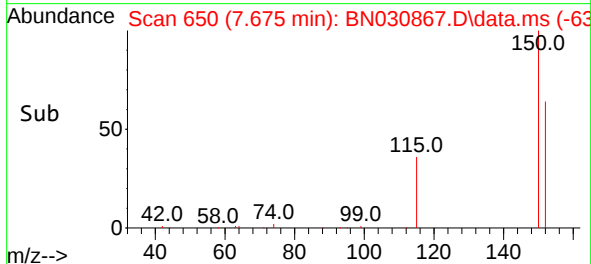
Tgt Ion:152 Resp: 5380
Ion Ratio Lower Upper
152 100
150 155.7 121.6 182.4
115 60.2 46.4 69.6

Manual Integrations

APPROVED

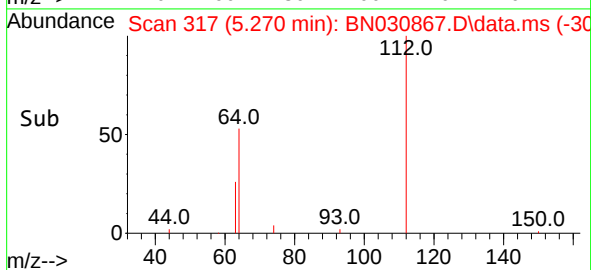
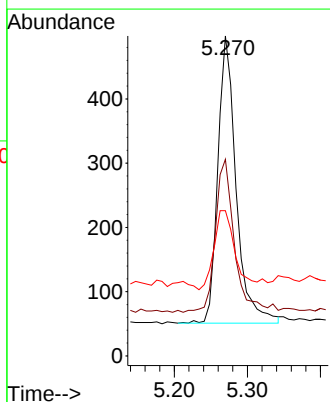
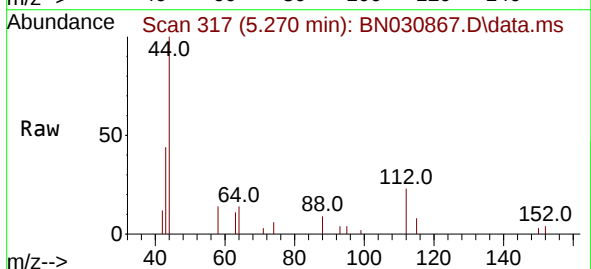
Reviewed By :Yogesh Patel 04/16/2024

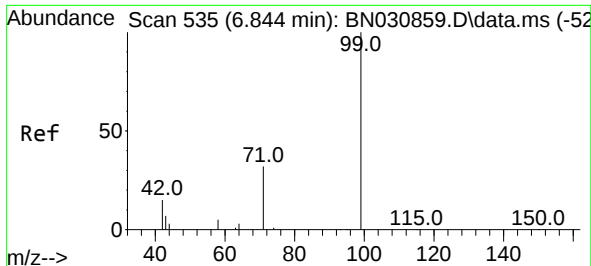
Supervised By :mohammad ahmed 04/17/2024



#4
2-Fluorophenol
Concen: 0.060 ng
RT: 5.270 min Scan# 317
Delta R.T. -0.000 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

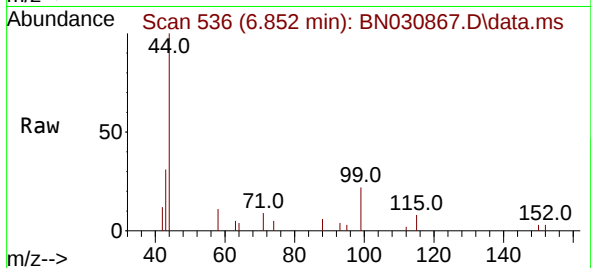
Tgt Ion:112 Resp: 776
Ion Ratio Lower Upper
112 100
64 55.7 42.2 63.4
63 31.8 22.1 33.1





#5
Phenol-d6
Concen: 0.060 ng
RT: 6.852 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

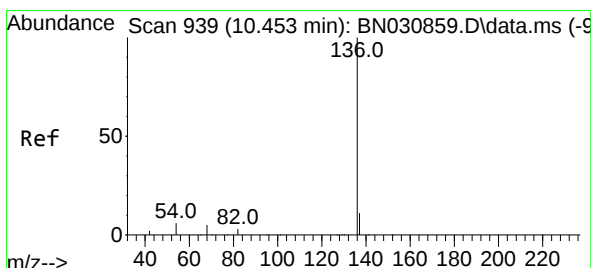
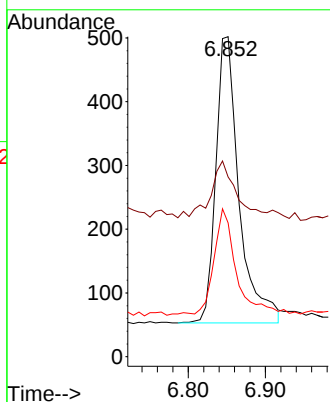
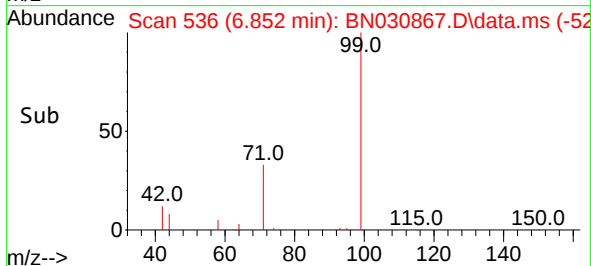
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



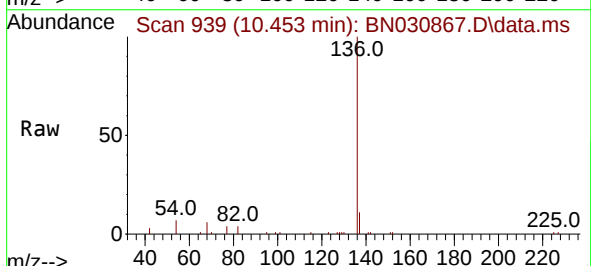
Tgt Ion: 99 Resp: 94
Ion Ratio Lower Upper
99 100
42 22.2 15.3 22.9
71 34.2 26.4 39.6

Manual Integrations
APPROVED

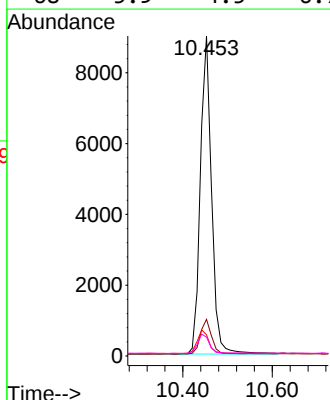
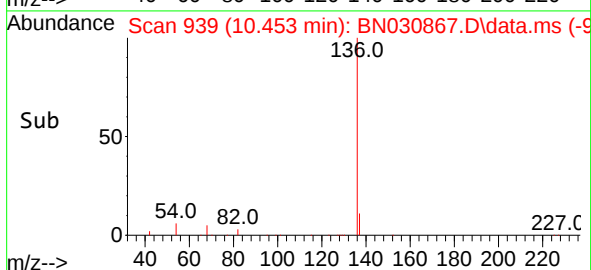
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024

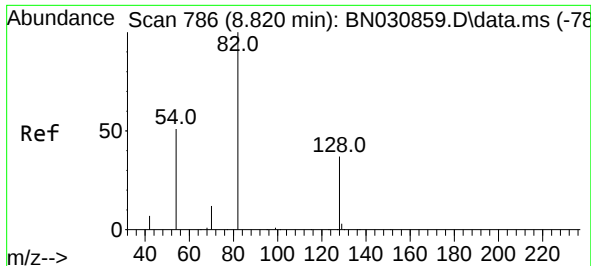


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.453 min Scan# 939
Delta R.T. -0.000 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47



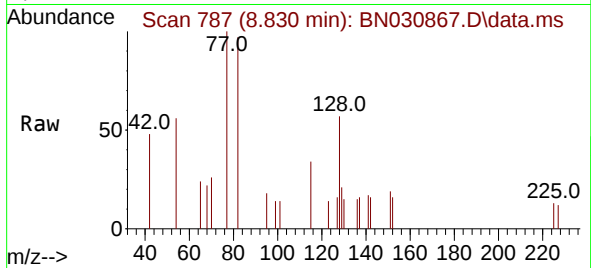
Tgt Ion:136 Resp: 15645
Ion Ratio Lower Upper
136 100
137 11.4 9.2 13.8
54 6.6 5.3 7.9
68 5.9 4.5 6.7





#8
Nitrobenzene-d5
Concen: 0.060 ng
RT: 8.830 min Scan# 786
Delta R.T. 0.011 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

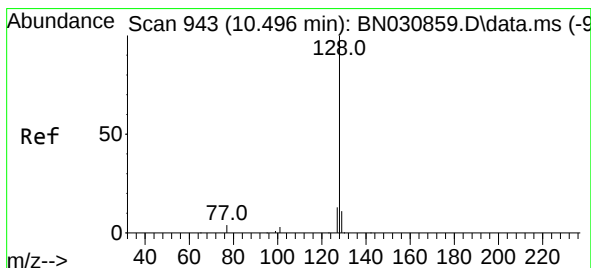
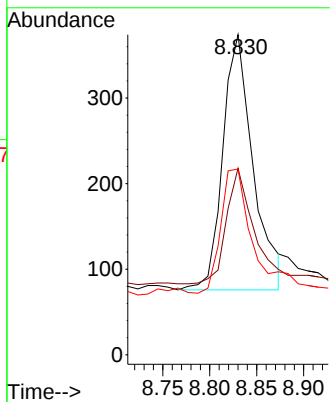
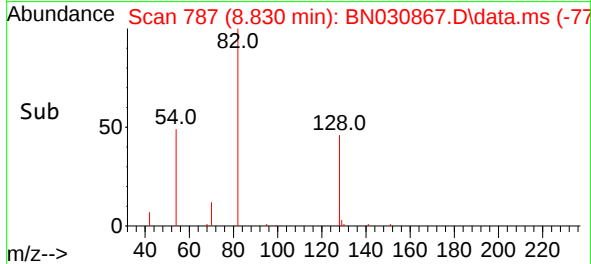
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion: 82 Resp: 670
Ion Ratio Lower Upper
82 100
128 58.3 31.4 47.2
54 58.0 41.8 62.6

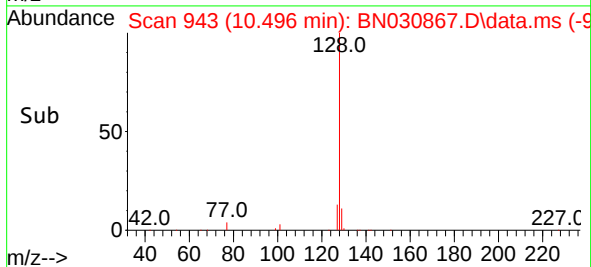
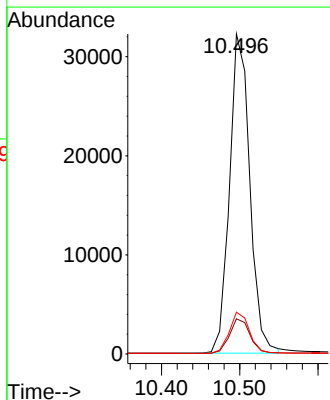
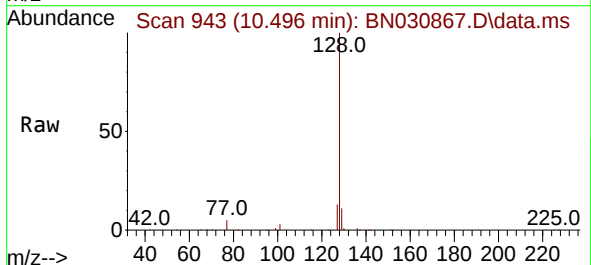
Manual Integrations
APPROVED

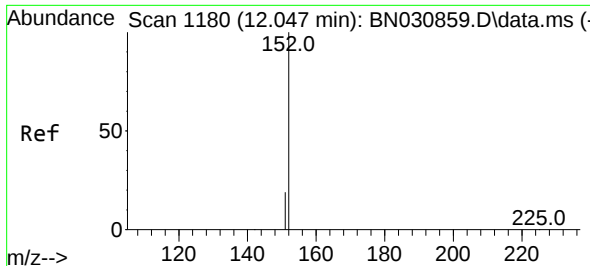
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#9
Naphthalene
Concen: 1.343 ng
RT: 10.496 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

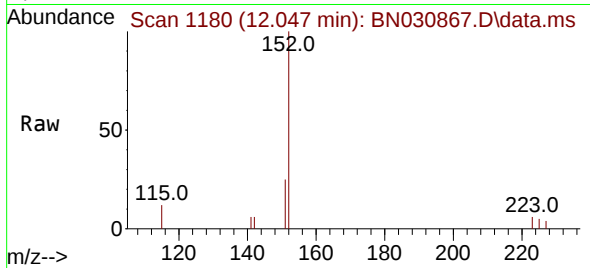
Tgt Ion:128 Resp: 58127
Ion Ratio Lower Upper
128 100
129 11.0 9.1 13.7
127 13.1 10.7 16.1





#11
2-Methylnaphthalene-d10
Concen: 0.073 ng
RT: 12.047 min Scan# 1180
Delta R.T. -0.000 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

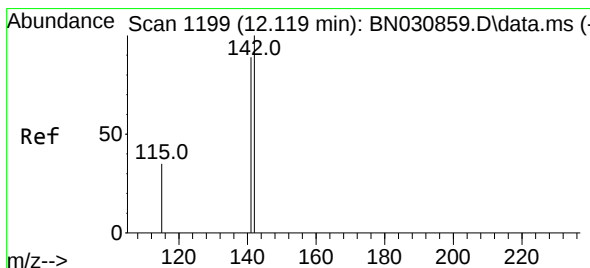
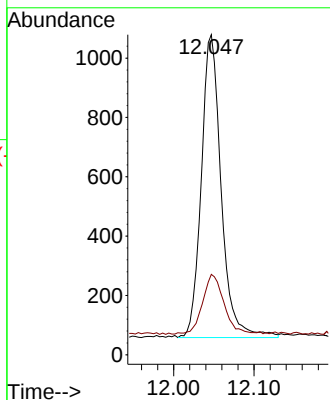
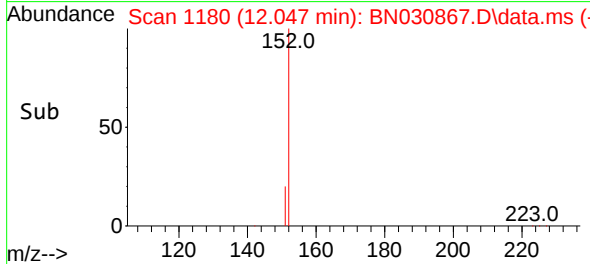
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:152 Resp: 1758
Ion Ratio Lower Upper
152 100
151 21.0 16.6 24.8

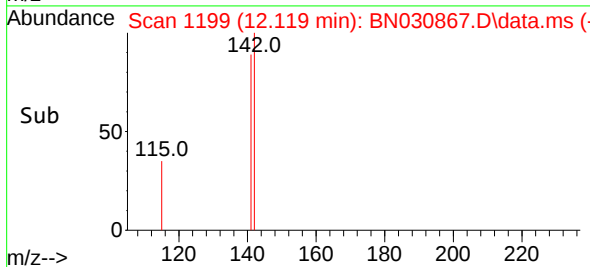
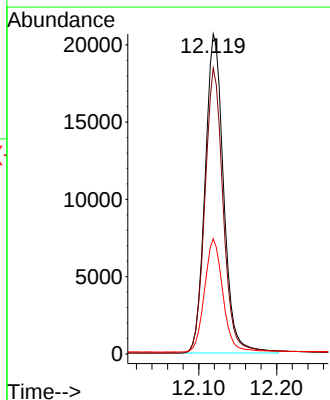
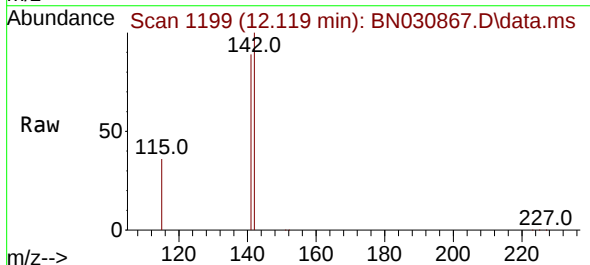
Manual Integrations
APPROVED

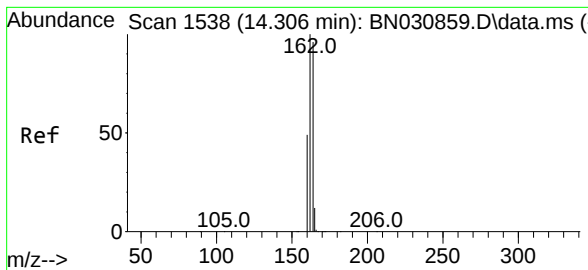
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#12
2-Methylnaphthalene
Concen: 1.206 ng
RT: 12.119 min Scan# 1199
Delta R.T. -0.000 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

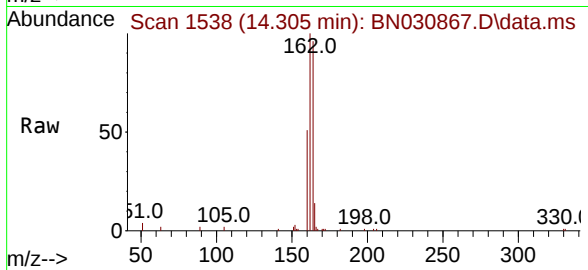
Tgt Ion:142 Resp: 34129
Ion Ratio Lower Upper
142 100
141 89.3 71.4 107.0
115 36.0 29.1 43.7





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.305 min Scan# 1538
Delta R.T. -0.000 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

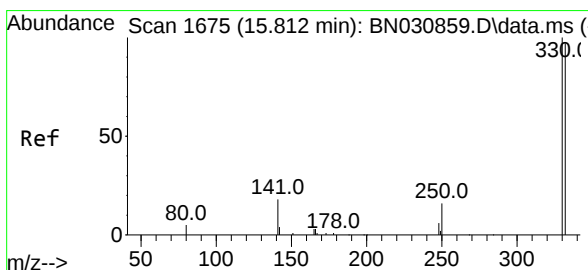
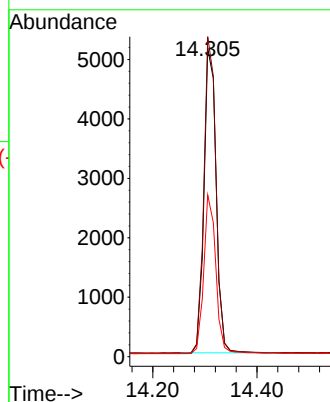
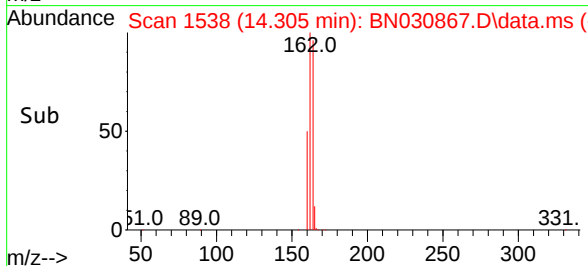
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



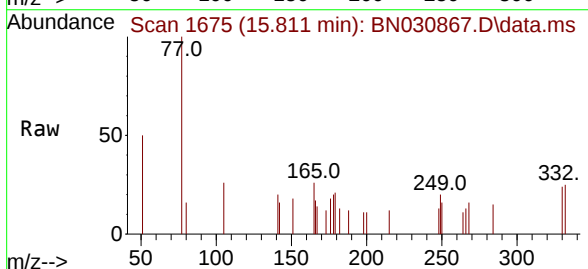
Tgt Ion:164 Resp: 8329
Ion Ratio Lower Upper
164 100
162 103.8 83.7 125.5
160 52.5 41.4 62.0

Manual Integrations
APPROVED

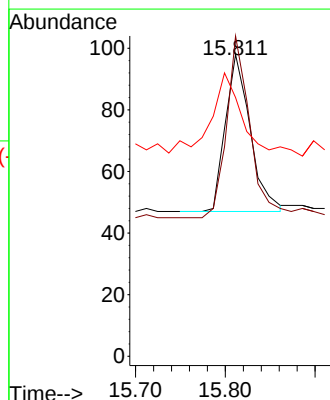
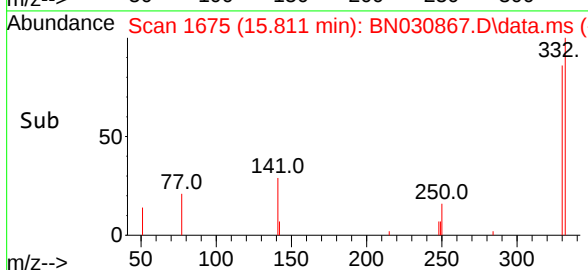
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024

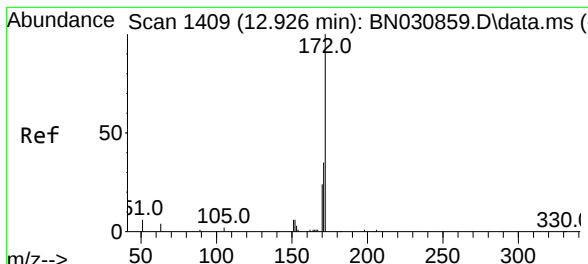


#14
2,4,6-Tribromophenol
Concen: 0.029 ng
RT: 15.811 min Scan# 1675
Delta R.T. -0.000 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47



Tgt Ion:330 Resp: 98
Ion Ratio Lower Upper
330 100
332 108.2 76.4 114.6
141 59.2 36.7 55.1#





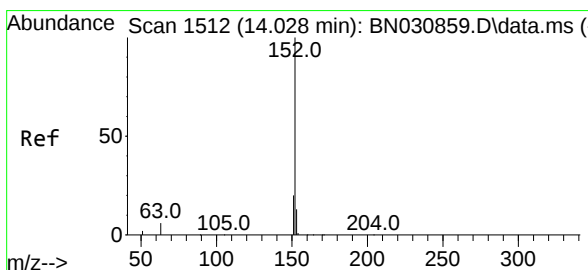
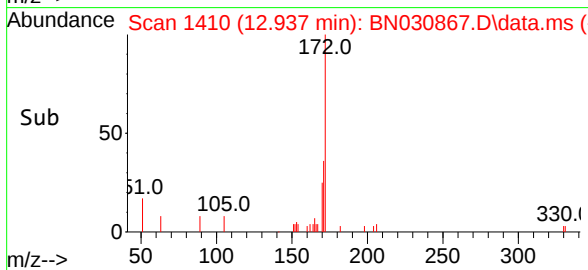
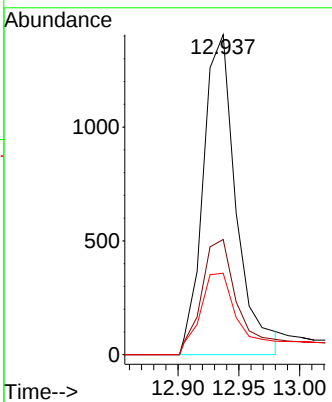
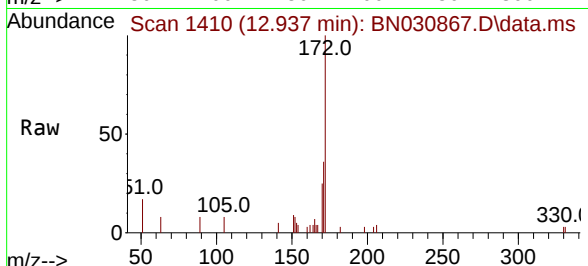
#15
 2-Fluorobiphenyl
 Concen: 0.078 ng
 RT: 12.937 min Scan# 1410
 Delta R.T. 0.011 min
 Lab File: BN030867.D
 Acq: 12 Apr 2024 17:47

Instrument : BNA_N
 ClientSampleId : RR-PAH-WPDL

Tgt Ion:	172	Resp:	2289
Ion Ratio	Lower	Upper	
172	100		
171	36.0	28.4	42.6
170	25.5	19.5	29.3

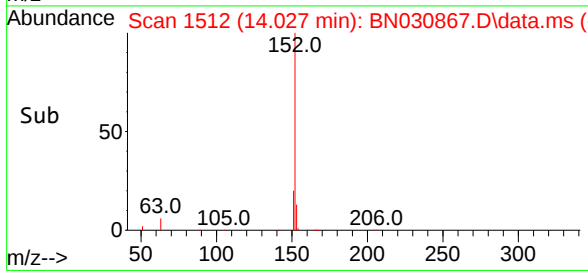
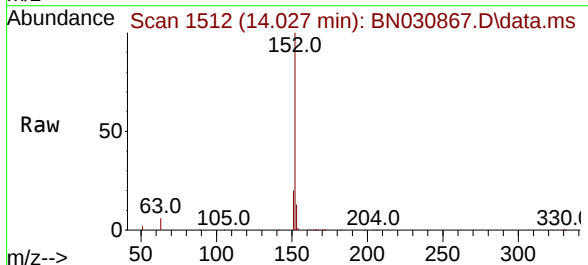
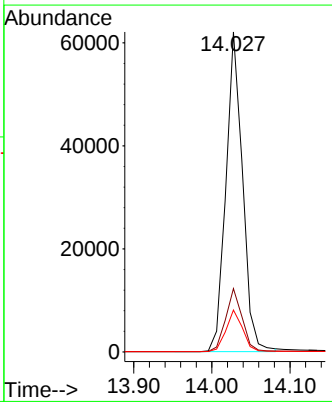
Manual Integrations
 APPROVED

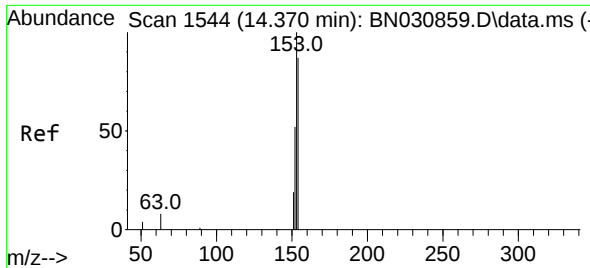
Reviewed By :Yogesh Patel 04/16/2024
 Supervised By :mohammad ahmed 04/17/2024



#16
 Acenaphthylene
 Concen: 2.526 ng
 RT: 14.027 min Scan# 1512
 Delta R.T. -0.000 min
 Lab File: BN030867.D
 Acq: 12 Apr 2024 17:47

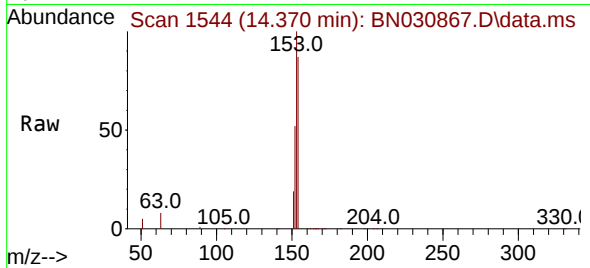
Tgt Ion:	152	Resp:	91935
Ion Ratio	Lower	Upper	
152	100		
151	19.5	15.6	23.4
153	13.0	10.3	15.5





#17
Acenaphthene
Concen: 1.389 ng
RT: 14.370 min Scan# 1544
Delta R.T. -0.000 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

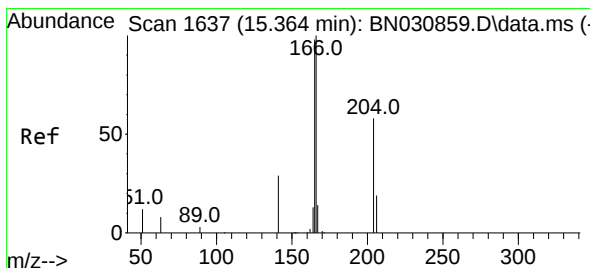
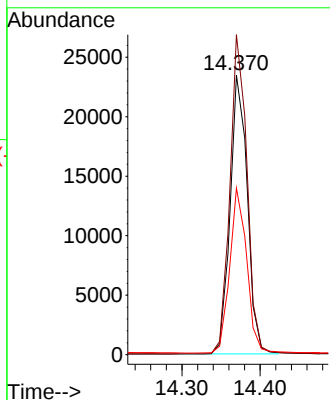
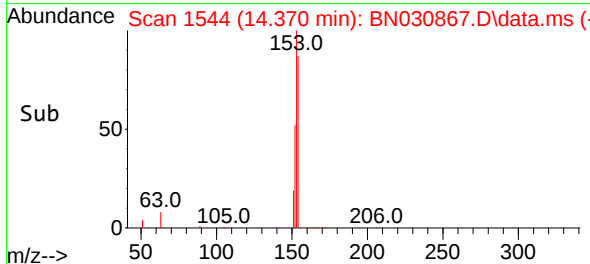
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:154 Resp: 35700
Ion Ratio Lower Upper
154 100
153 113.5 91.7 137.5
152 58.5 47.0 70.6

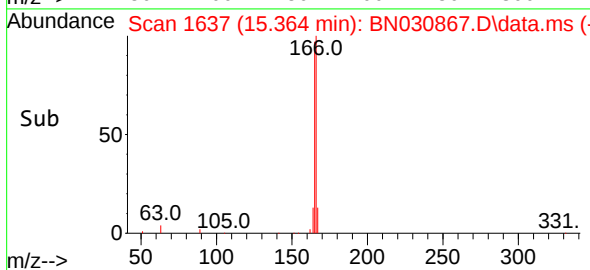
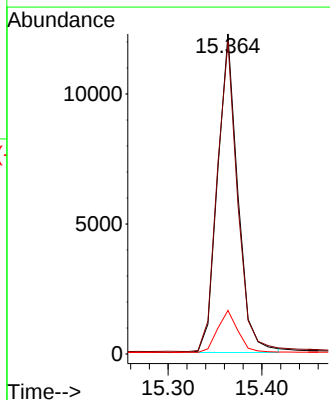
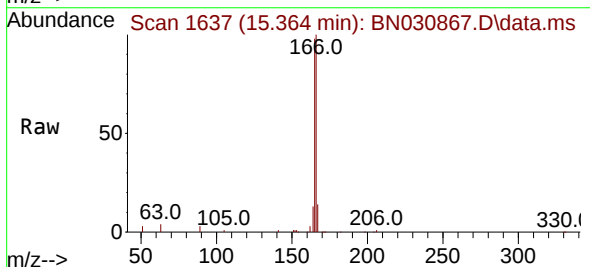
Manual Integrations
APPROVED

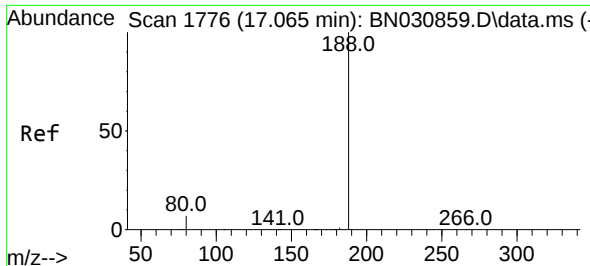
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#18
Fluorene
Concen: 0.543 ng
RT: 15.364 min Scan# 1637
Delta R.T. -0.000 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

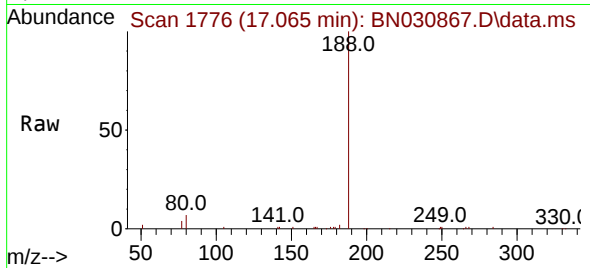
Tgt Ion:166 Resp: 18344
Ion Ratio Lower Upper
166 100
165 97.8 77.9 116.9
167 13.3 10.9 16.3





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.065 min Scan# 1776
Delta R.T. 0.000 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

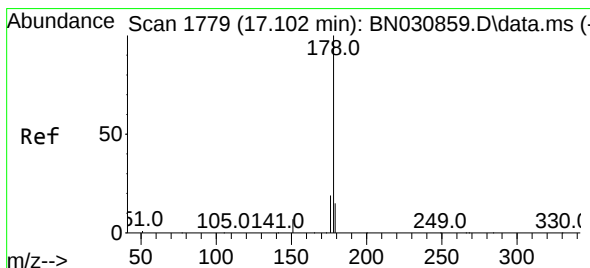
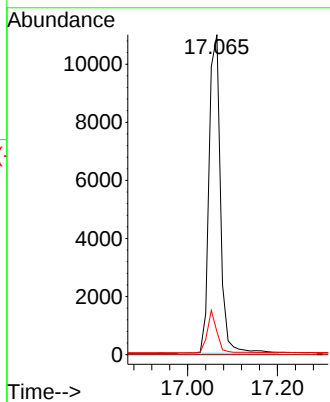
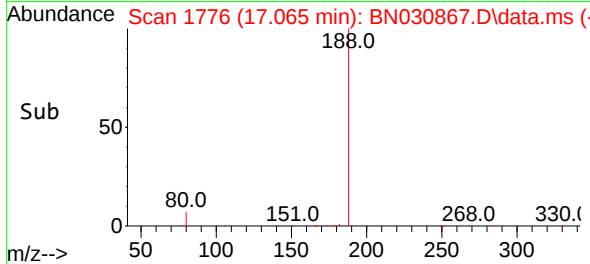
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



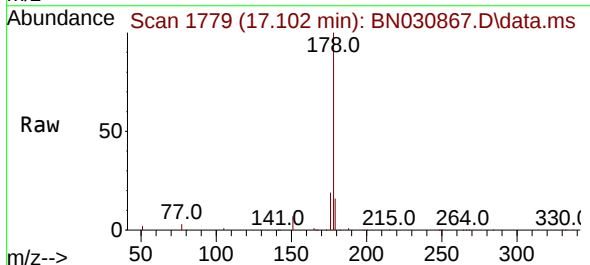
Tgt Ion:188 Resp: 19279
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.2 5.8 8.6

Manual Integrations
APPROVED

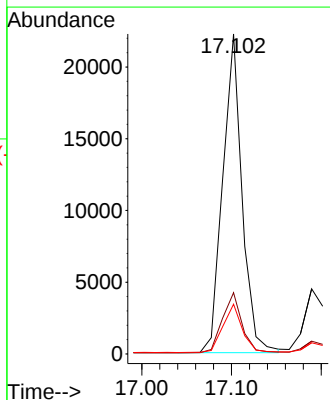
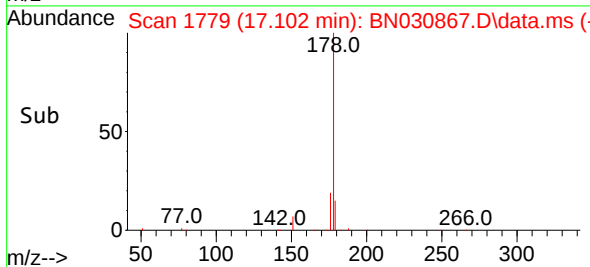
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024

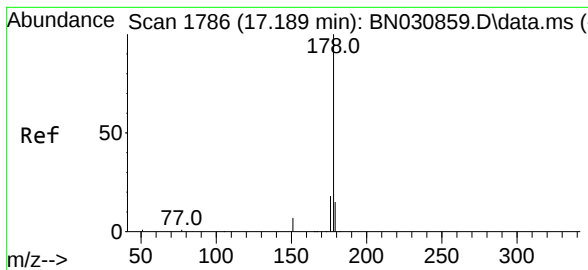


#25
Phenanthrene
Concen: 0.587 ng
RT: 17.102 min Scan# 1779
Delta R.T. -0.000 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47



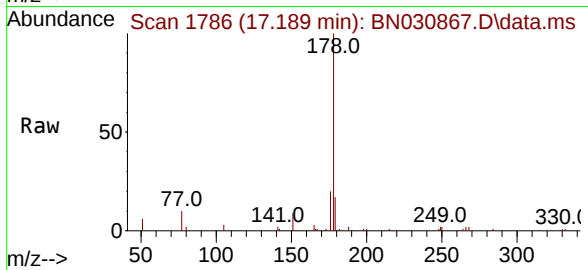
Tgt Ion:178 Resp: 33117
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.3 12.3 18.5





#26
 Anthracene
 Concen: 0.146 ng
 RT: 17.189 min Scan# 1786
 Delta R.T. -0.000 min
 Lab File: BN030867.D
 Acq: 12 Apr 2024 17:47

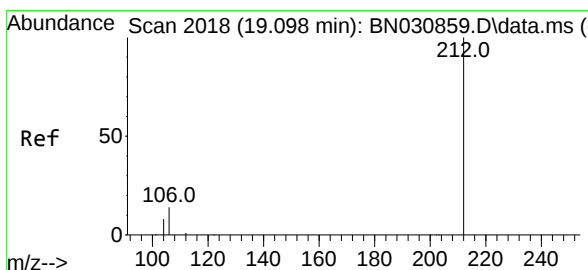
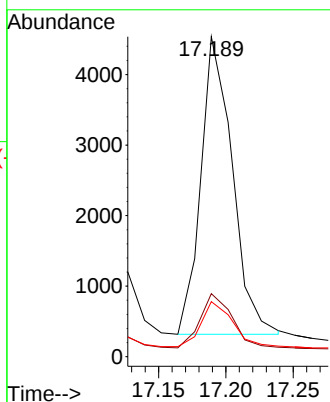
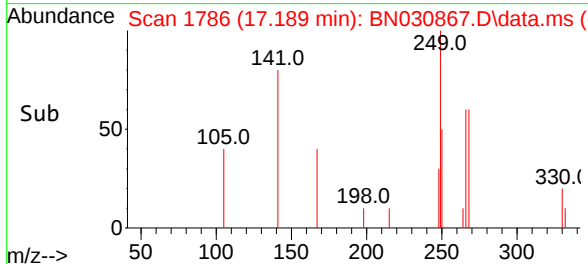
Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL



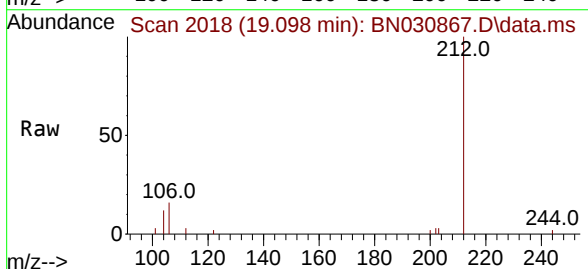
Tgt Ion:178 Resp: 6870
 Ion Ratio Lower Upper
 178 100
 176 18.3 14.7 22.1
 179 14.9 12.2 18.2

Manual Integrations
 APPROVED

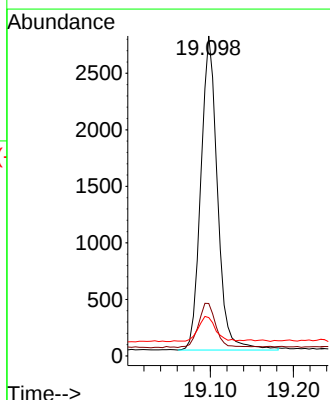
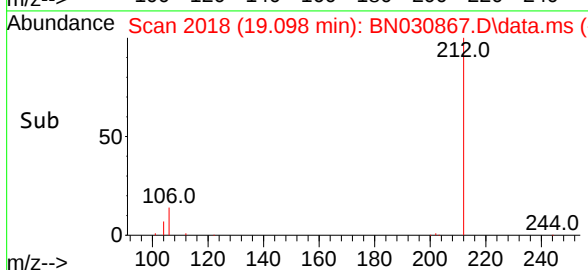
Reviewed By :Yogesh Patel 04/16/2024
 Supervised By :mohammad ahmed 04/17/2024

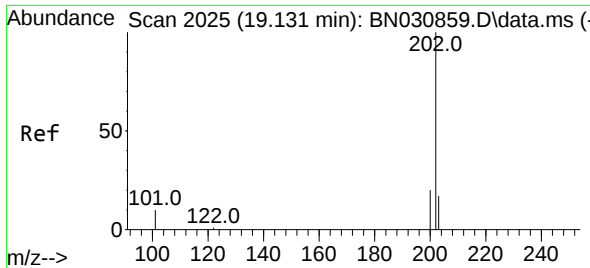


#27
 Fluoranthene-d10
 Concen: 0.072 ng
 RT: 19.098 min Scan# 2018
 Delta R.T. -0.000 min
 Lab File: BN030867.D
 Acq: 12 Apr 2024 17:47



Tgt Ion:212 Resp: 3880
 Ion Ratio Lower Upper
 212 100
 106 14.6 11.8 17.8
 104 8.6 6.6 10.0





#28
Fluoranthene
Concen: 0.244 ng
RT: 19.126 min Scan# 2025
Delta R.T. -0.005 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

Instrument :

BNA_N

ClientSampleId :

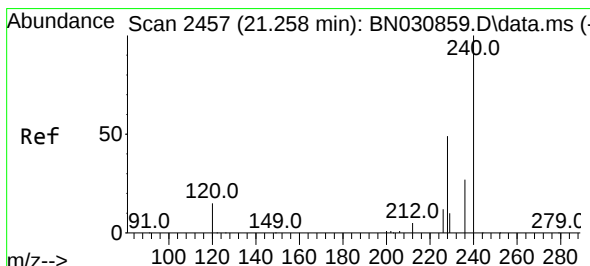
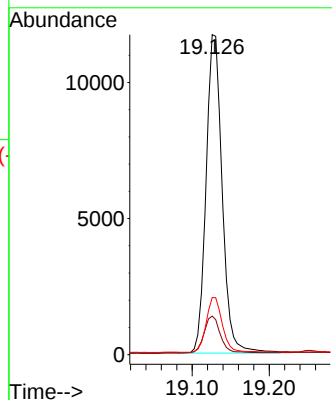
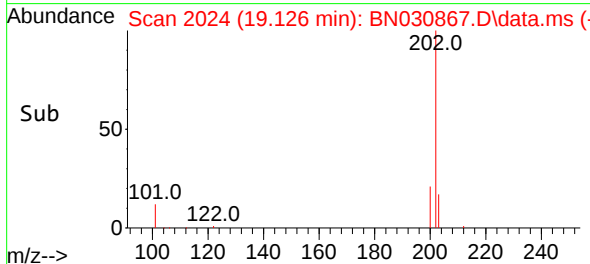
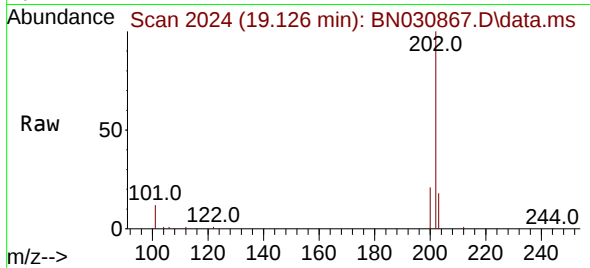
RR-PAH-WPDL

Tgt Ion:202 Resp: 17025
Ion Ratio Lower Upper
202 100
101 11.4 9.4 14.2
203 17.3 13.7 20.5

Manual Integrations

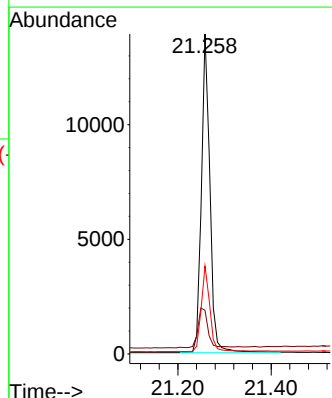
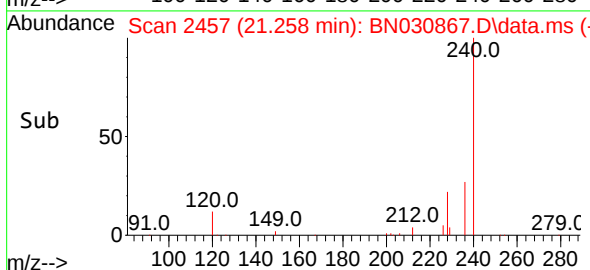
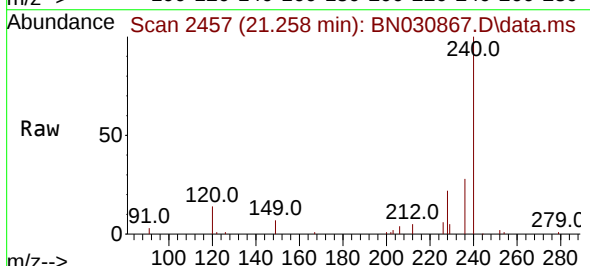
APPROVED

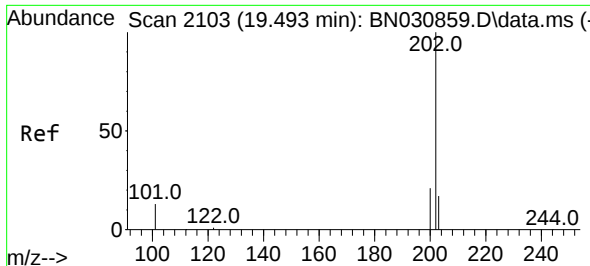
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.258 min Scan# 2457
Delta R.T. -0.000 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

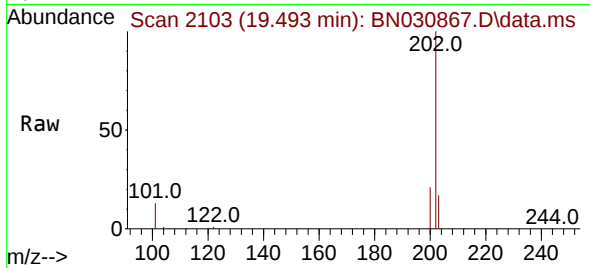
Tgt Ion:240 Resp: 17687
Ion Ratio Lower Upper
240 100
120 13.6 13.5 20.3
236 27.5 22.2 33.2





#30
Pyrene
Concen: 0.352 ng
RT: 19.493 min Scan# 2103
Delta R.T. -0.000 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

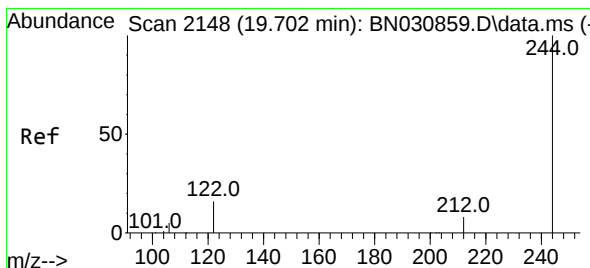
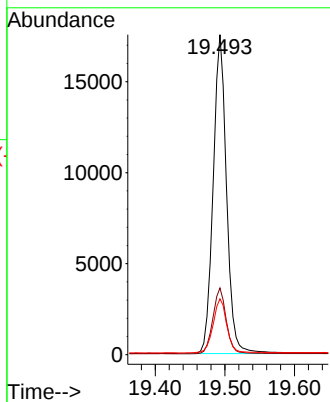
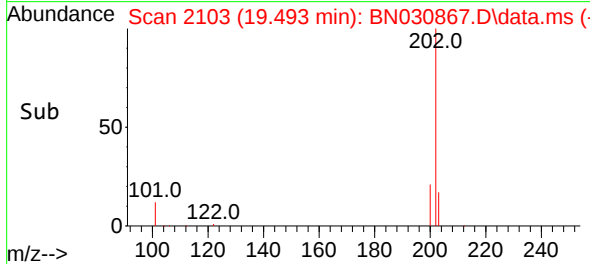
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:202 Resp: 2338
Ion Ratio Lower Upper
202 100
200 20.7 16.6 24.8
203 17.6 14.4 21.6

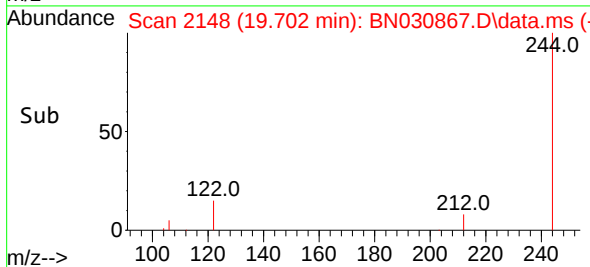
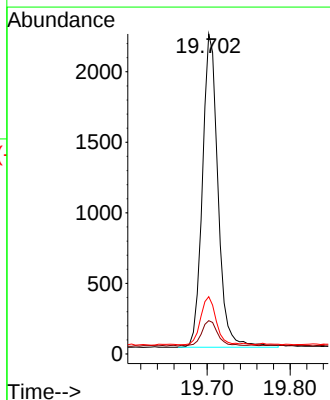
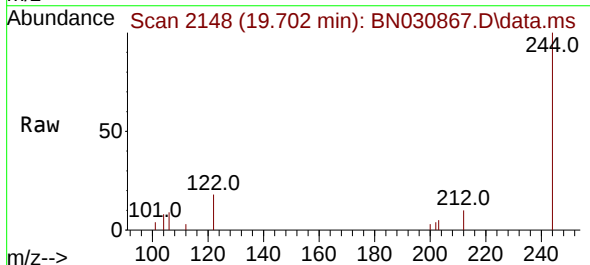
Manual Integrations
APPROVED

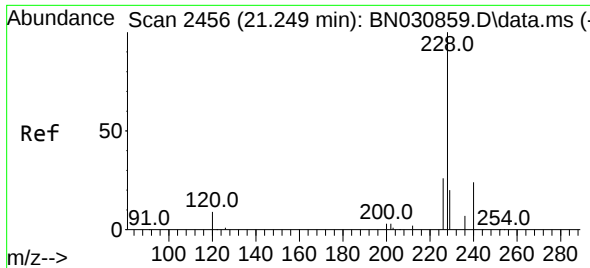
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#31
Terphenyl-d14
Concen: 0.072 ng
RT: 19.702 min Scan# 2148
Delta R.T. -0.000 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

Tgt Ion:244 Resp: 2905
Ion Ratio Lower Upper
244 100
212 10.4 6.7 10.1#
122 17.9 12.8 19.2





#32
Benzo(a)anthracene
Concen: 0.246 ng
RT: 21.240 min Scan# 2455
Delta R.T. -0.009 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

Instrument :

BNA_N

ClientSampleId :

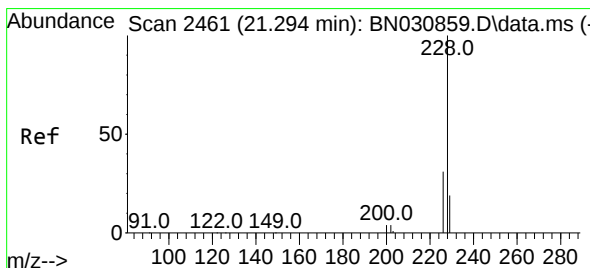
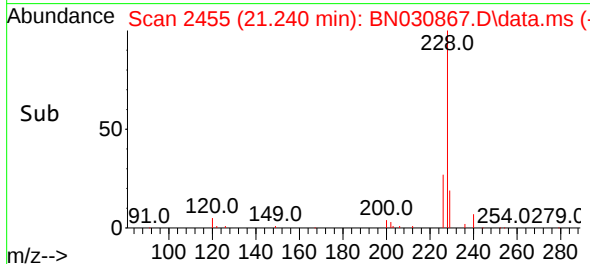
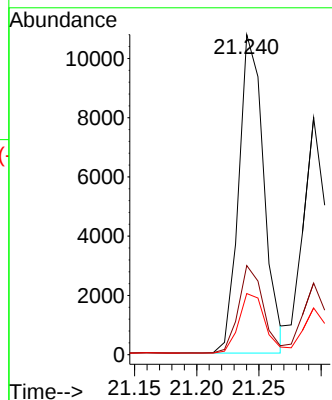
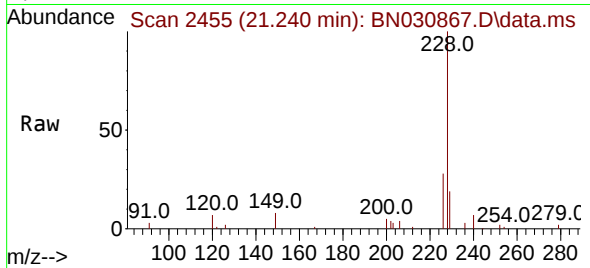
RR-PAH-WPDL

Tgt Ion:228 Resp: 15079
Ion Ratio Lower Upper
228 100
226 27.8 21.3 31.9
229 19.1 15.8 23.8

Manual Integrations

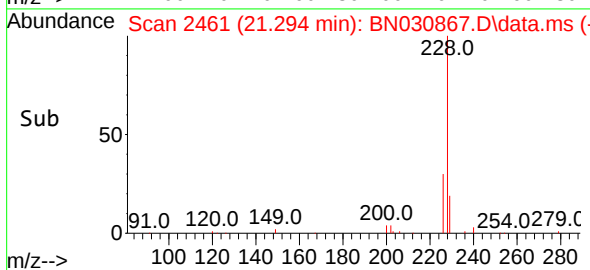
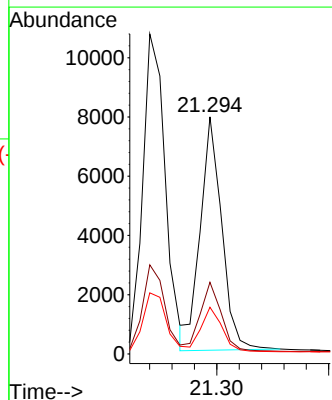
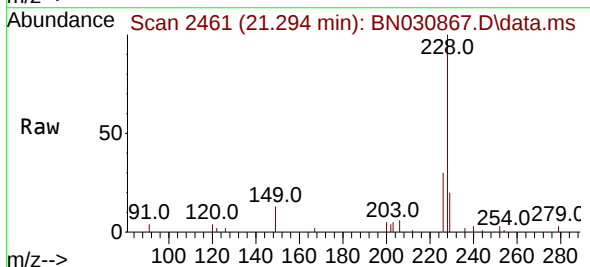
APPROVED

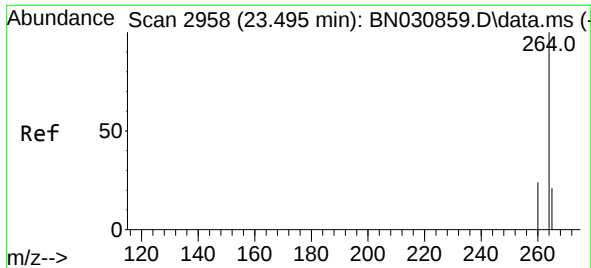
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#33
Chrysene
Concen: 0.160 ng
RT: 21.294 min Scan# 2461
Delta R.T. -0.000 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

Tgt Ion:228 Resp: 10509
Ion Ratio Lower Upper
228 100
226 30.2 24.6 36.8
229 19.7 15.2 22.8





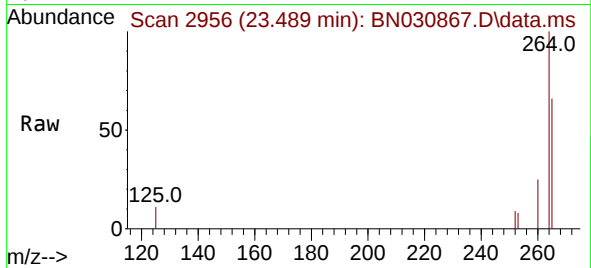
#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.489 min Scan# 2956
 Delta R.T. -0.006 min
 Lab File: BN030867.D
 Acq: 12 Apr 2024 17:47

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

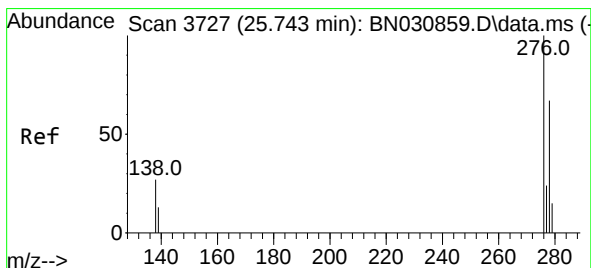
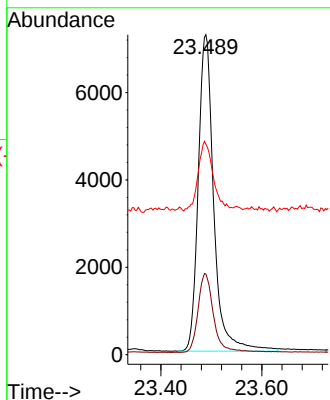
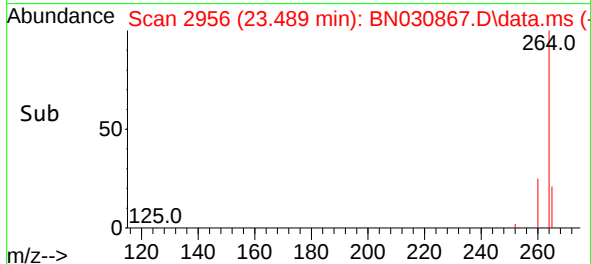


Tgt Ion:264 Resp: 15450
 Ion Ratio Lower Upper
 264 100
 260 25.2 19.8 29.8
 265 65.7 42.5 63.7

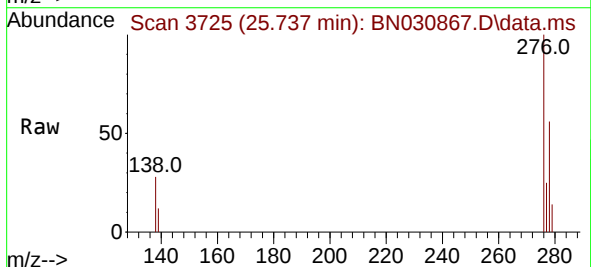
Manual Integrations

APPROVED

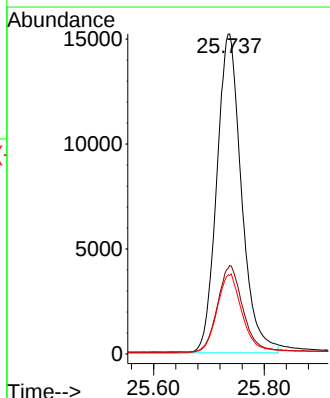
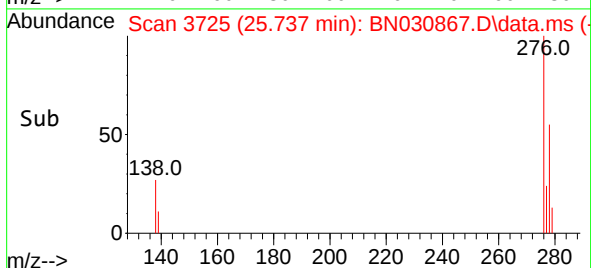
Reviewed By :Yogesh Patel 04/16/2024
 Supervised By :mohammad ahmed 04/17/2024

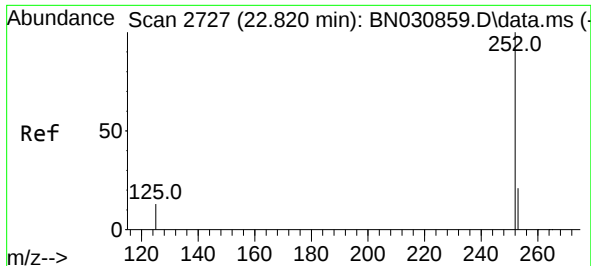


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.779 ng
 RT: 25.737 min Scan# 3725
 Delta R.T. -0.006 min
 Lab File: BN030867.D
 Acq: 12 Apr 2024 17:47



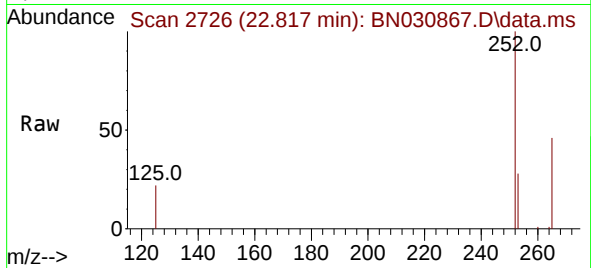
Tgt Ion:276 Resp: 47063
 Ion Ratio Lower Upper
 276 100
 138 27.5 22.2 33.4
 277 24.7 20.0 30.0





#37
Benzo(b)fluoranthene
Concen: 0.154 ng m
RT: 22.817 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

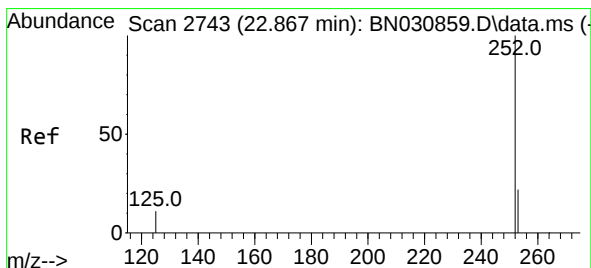
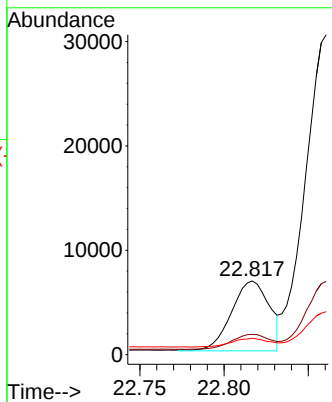
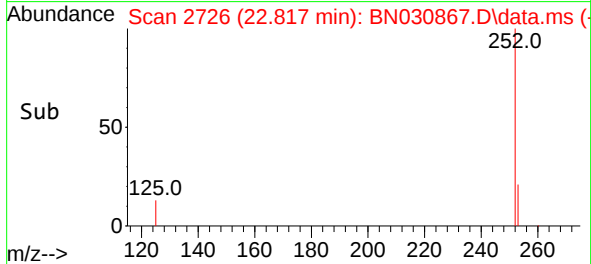
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:252 Resp: 10549
Ion Ratio Lower Upper
252 100
253 27.5 18.8 28.2
125 22.3 13.0 19.6

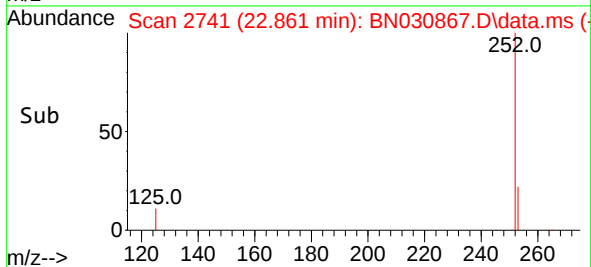
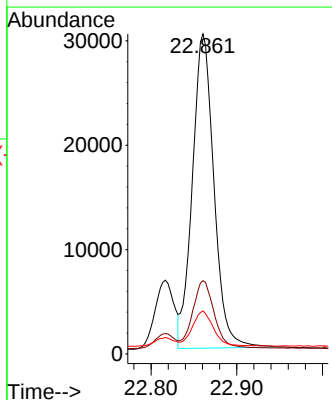
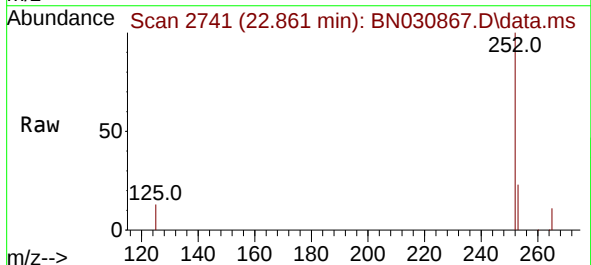
Manual Integrations
APPROVED

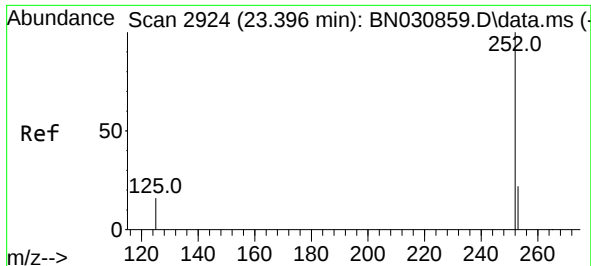
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#38
Benzo(k)fluoranthene
Concen: 0.816 ng
RT: 22.861 min Scan# 2741
Delta R.T. -0.006 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

Tgt Ion:252 Resp: 52635
Ion Ratio Lower Upper
252 100
253 22.9 19.1 28.7
125 13.5 11.6 17.4





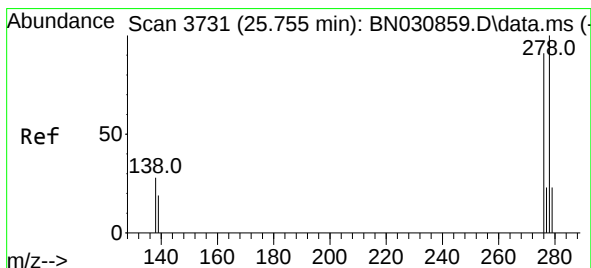
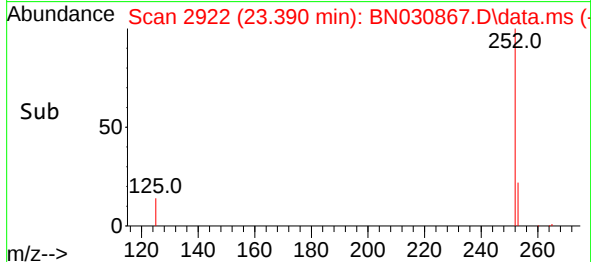
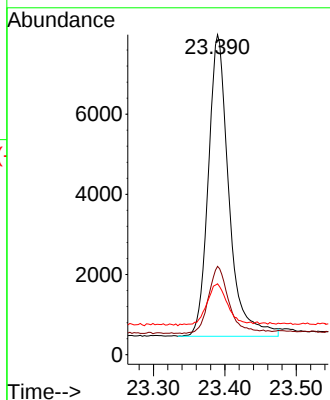
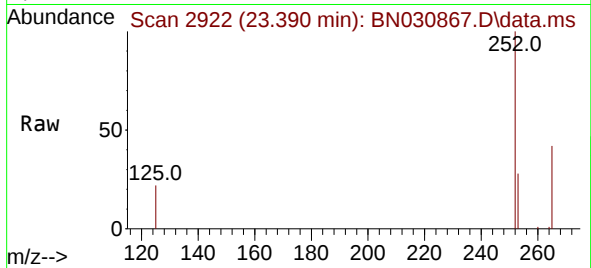
#39
Benzo(a)pyrene
Concen: 0.286 ng
RT: 23.390 min Scan# 2924
Delta R.T. -0.006 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tgt Ion:252 Resp: 15049
Ion Ratio Lower Upper
252 100
253 27.6 20.2 30.4
125 22.2 16.6 25.0

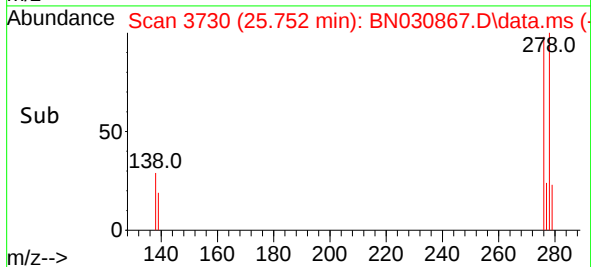
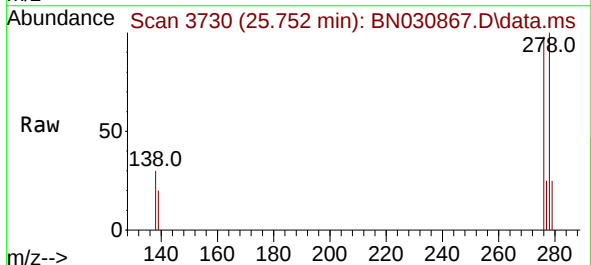
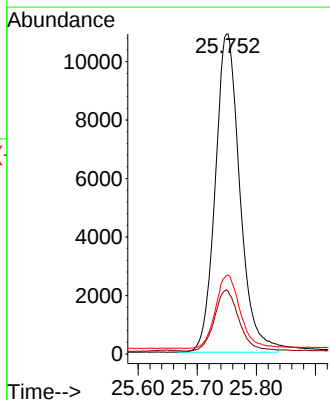
Manual Integrations
APPROVED

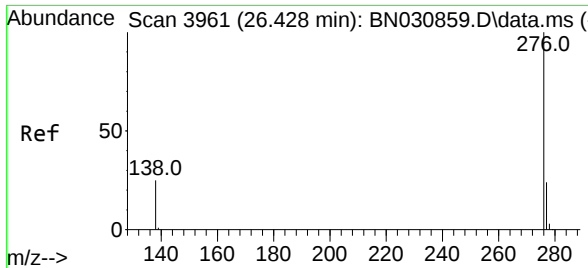
Reviewed By :Yogesh Patel 04/16/2024
Supervised By :mohammad ahmed 04/17/2024



#40
Dibenzo(a,h)anthracene
Concen: 0.656 ng
RT: 25.752 min Scan# 3730
Delta R.T. -0.003 min
Lab File: BN030867.D
Acq: 12 Apr 2024 17:47

Tgt Ion:278 Resp: 31472
Ion Ratio Lower Upper
278 100
139 19.6 16.5 24.7
279 24.7 20.6 30.8





#41

Benzo(g,h,i)perylene

Concen: 0.407 ng

RT: 26.425 min Scan# 3960

Delta R.T. -0.003 min

Lab File: BN030867.D

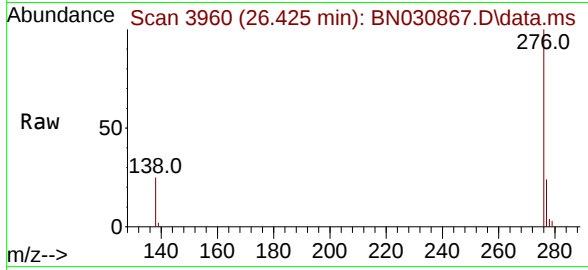
Acq: 12 Apr 2024 17:47

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL



Tgt Ion:276 Resp: 2114

Ion Ratio Lower Upper

276 100

277 24.3 19.8 29.8

138 25.2 21.2 31.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/16/2024

Supervised By :mohammad ahmed 04/17/2024

