

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040523\
 Data File : BN024768.D
 Acq On : 05 Apr 2023 13:50
 Operator : CG/JU
 Sample : 01950-21
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/06/2023
 Supervised By : Jagrut Upadhyay 04/06/2023

Quant Time: Apr 05 14:22:16 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN040523.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 05 11:04:25 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.954	152	7824	0.400	ng	0.00
7) Naphthalene-d8	10.760	136	20935	0.400	ng	# 0.00
13) Acenaphthene-d10	14.587	164	12073	0.400	ng	0.00
19) Phenanthrene-d10	17.336	188	27519	0.400	ng	0.00
29) Chrysene-d12	21.526	240	25266	0.400	ng	# 0.00
35) Perylene-d12	23.983	264	22042	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.499	112	8930	0.494	ng	0.00
5) Phenol-d6	7.109	99	11071	0.486	ng	0.00
8) Nitrobenzene-d5	9.116	82	7708	0.457	ng	0.00
11) 2-Methylnaphthalene-d10	12.351	152	13721	0.495	ng	0.00
14) 2,4,6-Tribromophenol	16.107	330	1621m	0.299	ng	0.00
15) 2-Fluorobiphenyl	13.219	172	21940	0.476	ng	0.00
27) Fluoranthene-d10	19.367	212	29718	0.476	ng	0.00
31) Terphenyl-d14	19.966	244	29990	0.524	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.814	128	262635	4.872	ng	100
12) 2-Methylnaphthalene	12.423	142	86362	2.304	ng	100
16) Acenaphthylene	14.309	152	322123	6.348	ng	99
17) Acenaphthene	14.651	154	151789	4.421	ng	98
18) Fluorene	15.635	166	498760	10.582	ng	99
25) Phenanthrene	17.373	178	319355	3.997	ng	100
26) Anthracene	17.472	178	93291	1.339	ng	99
28) Fluoranthene	19.401	202	428878	4.728	ng	99
30) Pyrene	19.764	202	451310	5.025	ng	100
32) Benzo(a)anthracene	21.509	228	364757	4.270	ng	98
33) Chrysene	21.571	228	376860	4.211	ng	99
36) Indeno(1,2,3-cd)pyrene	26.518	276	346557	3.586	ng	99
37) Benzo(b)fluoranthene	23.229	252	93570	1.119	ng	# 92
38) Benzo(k)fluoranthene	23.278	252	288157	3.478	ng	94
39) Benzo(a)pyrene	23.869	252	277419	3.470	ng	# 85
40) Dibenzo(a,h)anthracene	26.535	278	222364	2.924	ng	96
41) Benzo(g,h,i)perylene	27.298	276	261459	3.173	ng	99

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

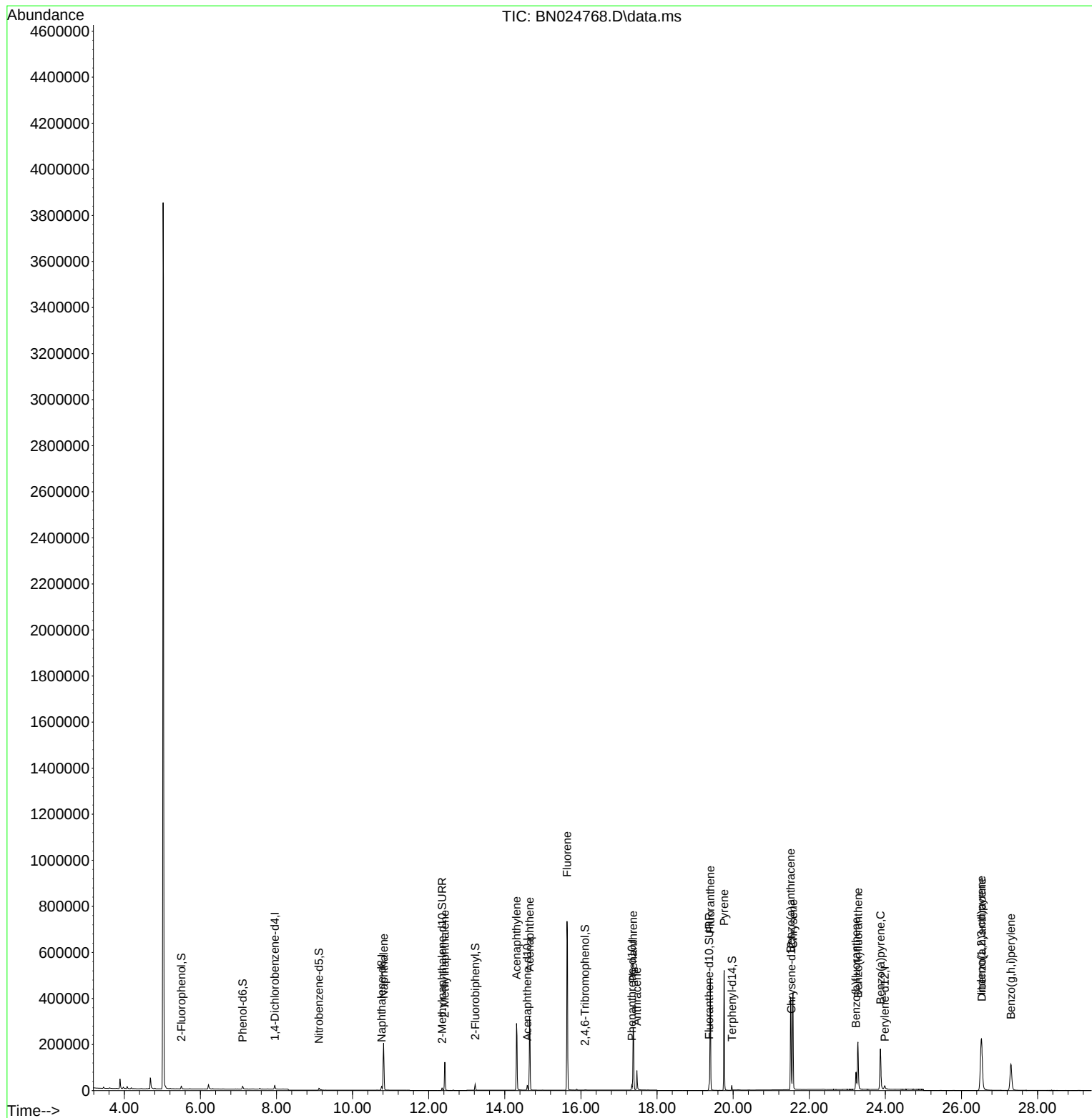
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN040523\
Data File : BN024768.D
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ALS Vial : 8 Sample Multiplier: 1

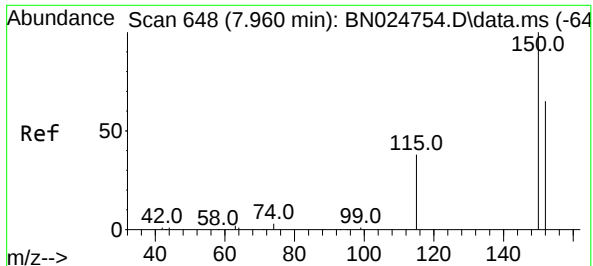
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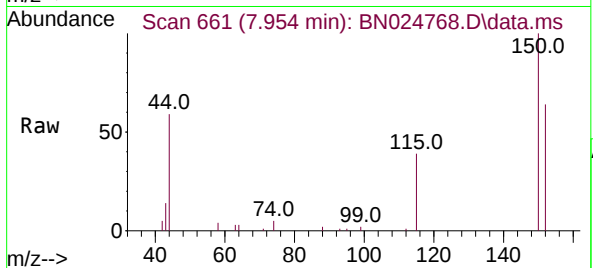
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.954 min Scan# 60
Delta R.T. 0.001 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

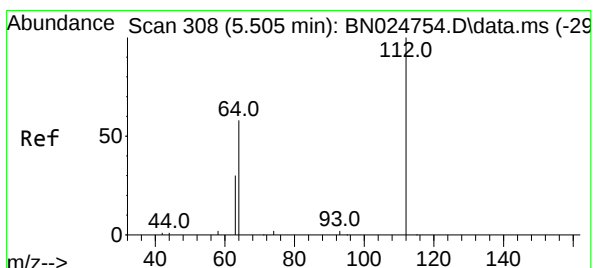
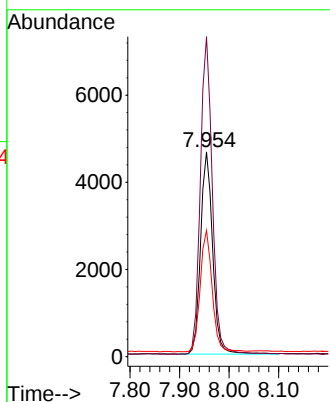
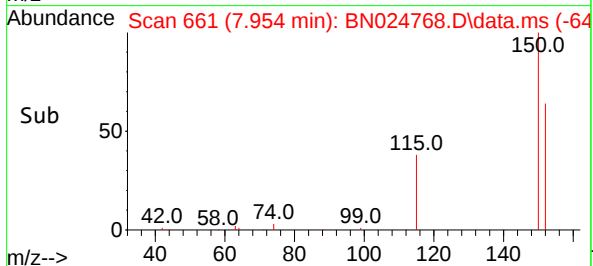
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ClientSampleId :
RR-PAH-WP



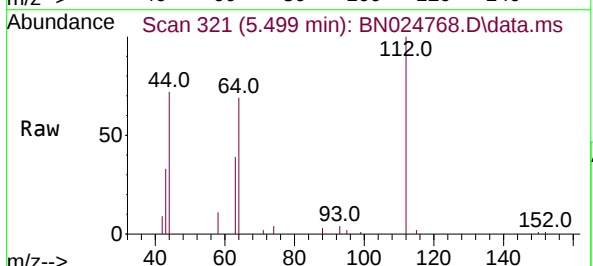
Tgt Ion:152 Resp: 7824
Ion Ratio Lower Upper
152 100
150 156.3 121.8 182.8
115 61.6 48.3 72.5

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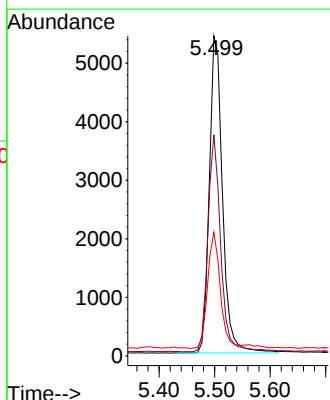
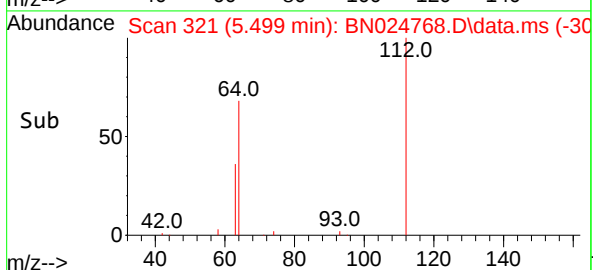
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023

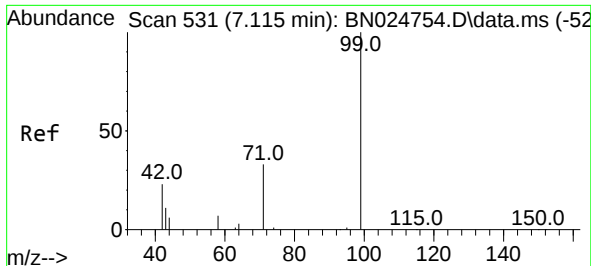


#4
2-Fluorophenol
Concen: 0.494 ng
RT: 5.499 min Scan# 321
Delta R.T. 0.001 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50



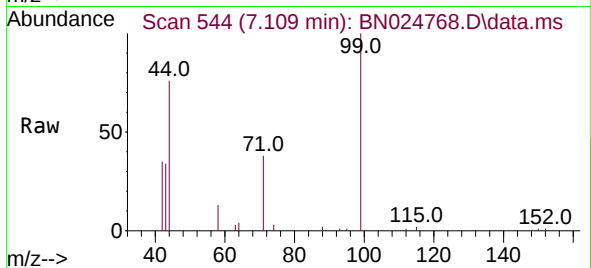
Tgt Ion:112 Resp: 8930
Ion Ratio Lower Upper
112 100
64 66.7 52.5 78.7
63 35.3 27.9 41.9





#5
Phenol-d6
Concen: 0.486 ng
RT: 7.109 min Scan# 54
Delta R.T. 0.001 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

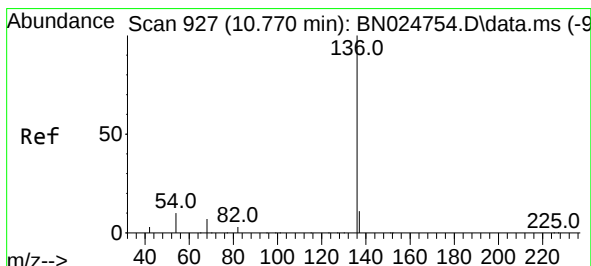
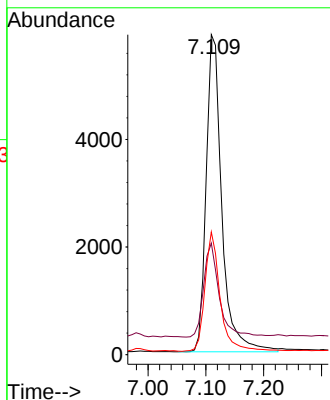
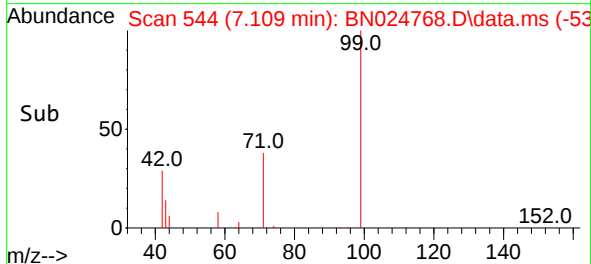
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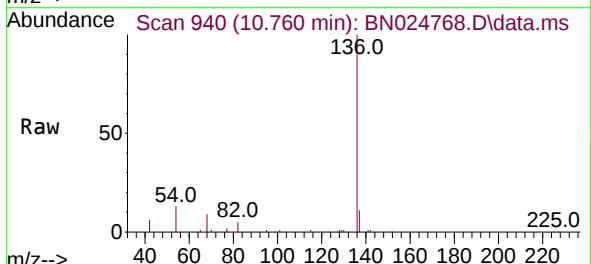
Tgt Ion: 99 Resp: 1107
Ion Ratio Lower Upper
99 100
42 29.5 22.8 34.2
71 36.8 28.2 42.2

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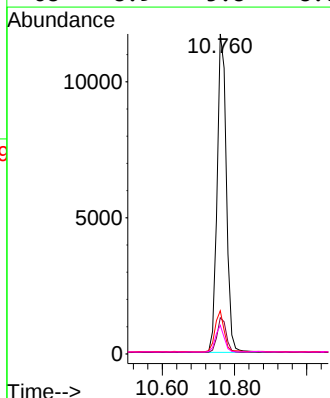
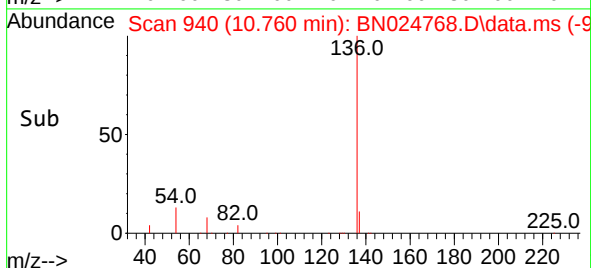
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023

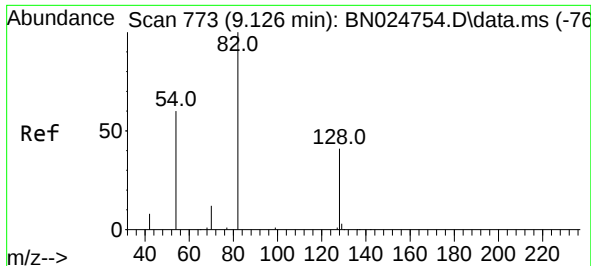


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.760 min Scan# 940
Delta R.T. 0.001 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50



Tgt Ion:136 Resp: 20935
Ion Ratio Lower Upper
136 100
137 11.3 8.9 13.3
54 13.5 8.2 12.4#
68 8.9 5.8 8.6#





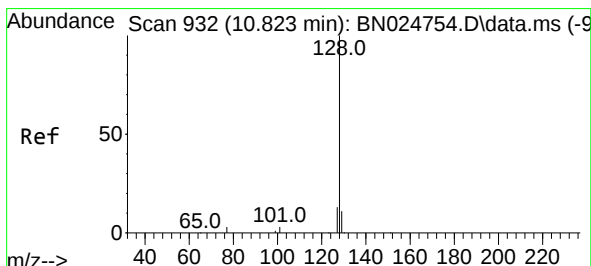
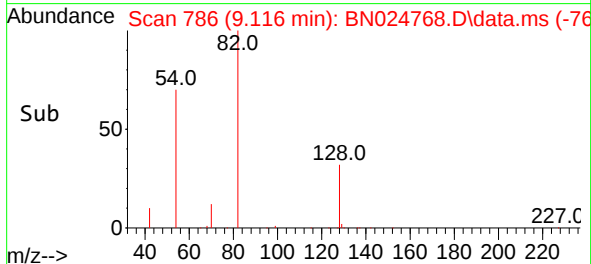
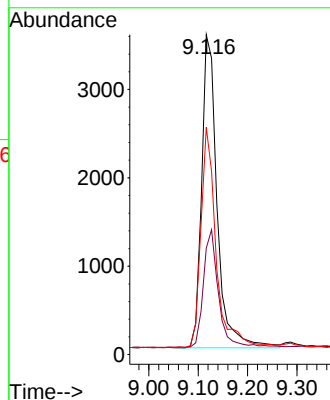
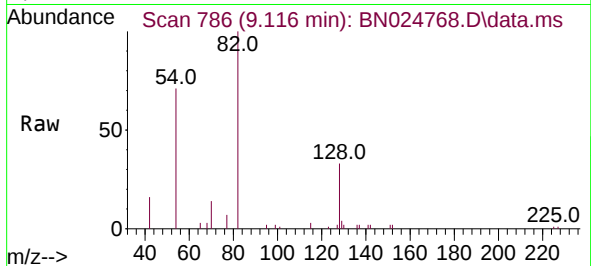
#8
Nitrobenzene-d5
Concen: 0.457 ng
RT: 9.116 min Scan# 773
Delta R.T. 0.001 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

Instrument :
BNA_N
ClientSampleId :
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Tgt Ion: 82 Resp: 7708
Ion Ratio Lower Upper
82 100
128 33.3 33.8 50.6
54 71.0 49.4 74.0

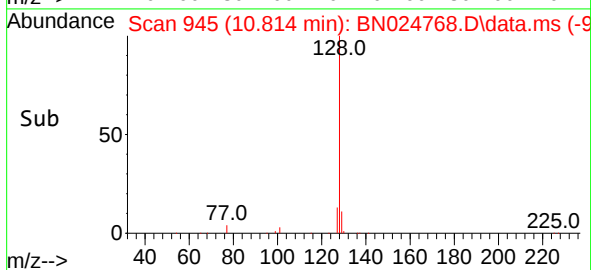
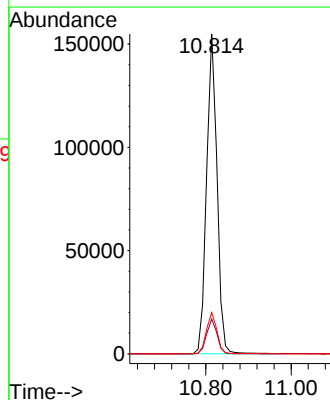
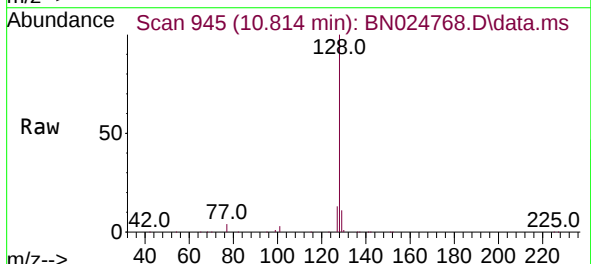
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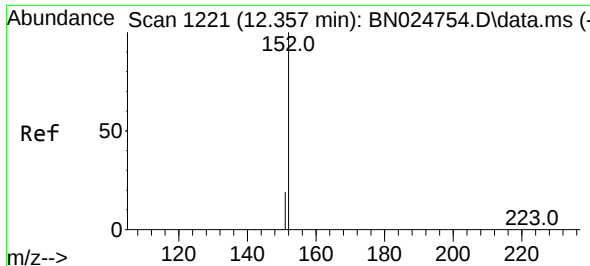
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023



#9
Naphthalene
Concen: 4.872 ng
RT: 10.814 min Scan# 945
Delta R.T. 0.001 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

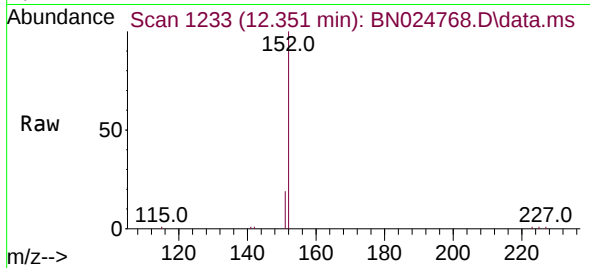
Tgt Ion:128 Resp: 262635
Ion Ratio Lower Upper
128 100
129 10.9 9.0 13.4
127 12.9 10.4 15.6





#11
2-Methylnaphthalene-d10
Concen: 0.495 ng
RT: 12.351 min Scan# 11
Delta R.T. 0.001 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

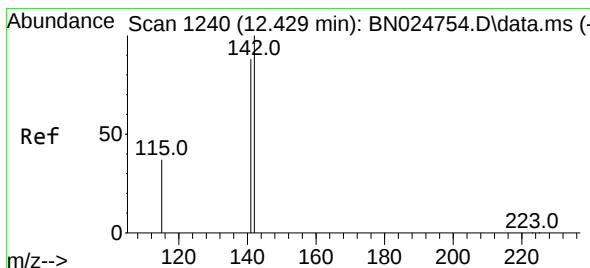
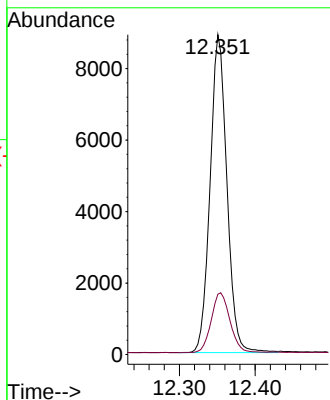
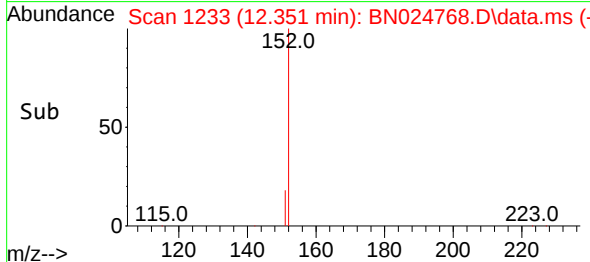
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



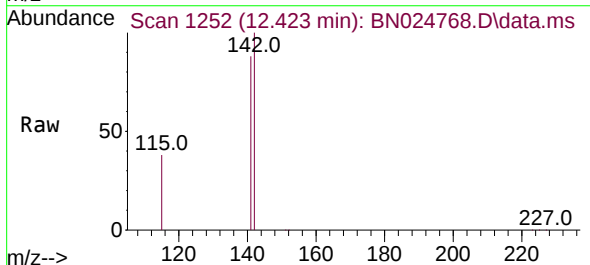
Tgt Ion:152 Resp: 1372
Ion Ratio Lower Upper
152 100
151 21.0 16.6 25.0

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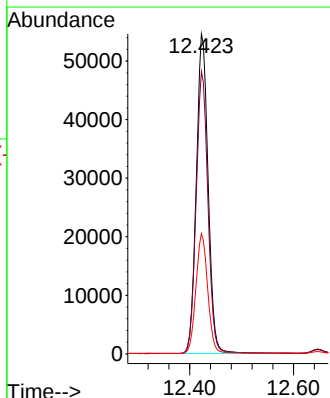
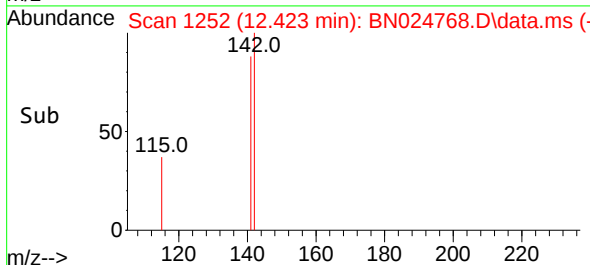
Reviewed By :Christian Giraldo 04/06/2023
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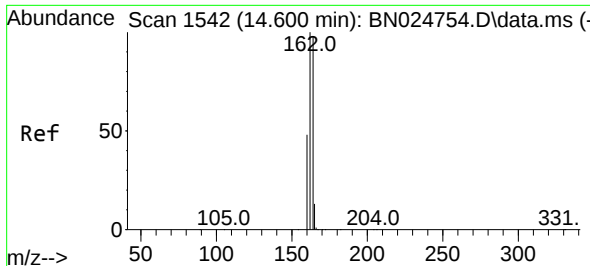


#12
2-Methylnaphthalene
Concen: 2.304 ng
RT: 12.423 min Scan# 1252
Delta R.T. -0.003 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50



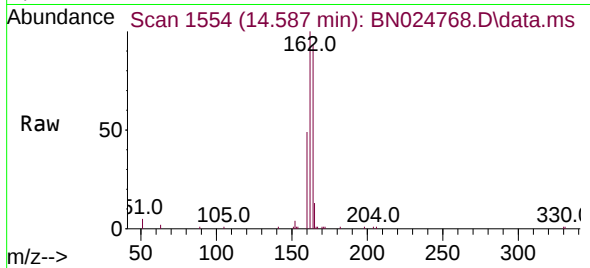
Tgt Ion:142 Resp: 86362
Ion Ratio Lower Upper
142 100
141 88.2 70.5 105.7
115 37.6 30.2 45.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.587 min Scan# 11
Delta R.T. -0.003 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

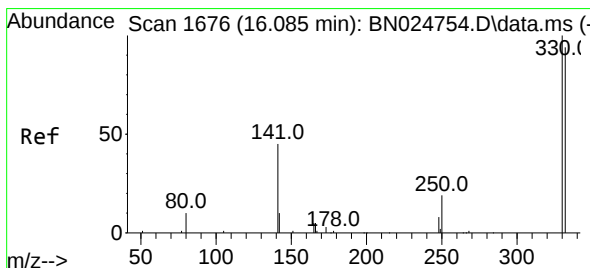
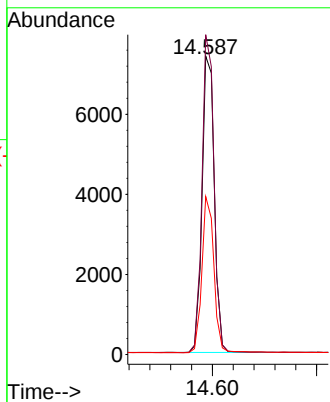
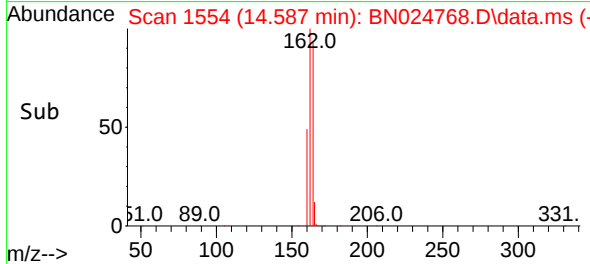
Instrument :
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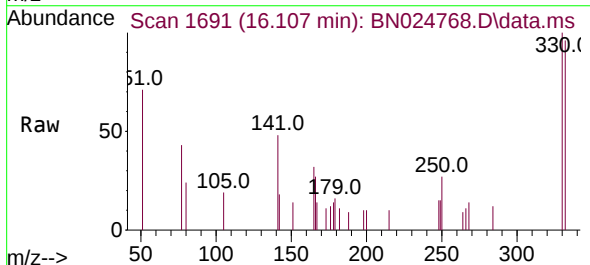
Tgt Ion:164 Resp: 12073
Ion Ratio Lower Upper
164 100
162 107.2 81.9 122.9
160 53.0 39.2 58.8

Manual Integrations
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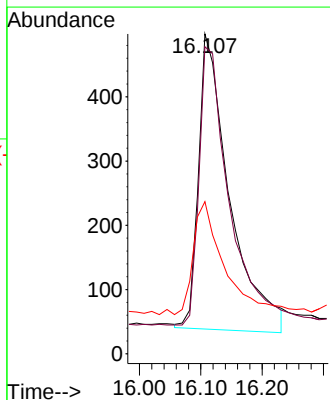
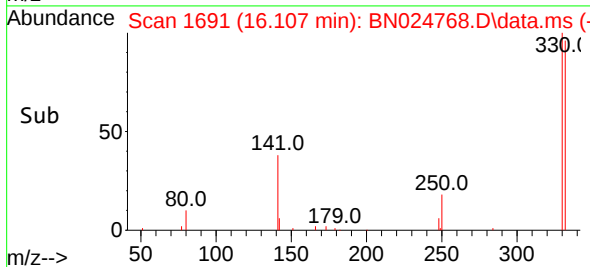
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023

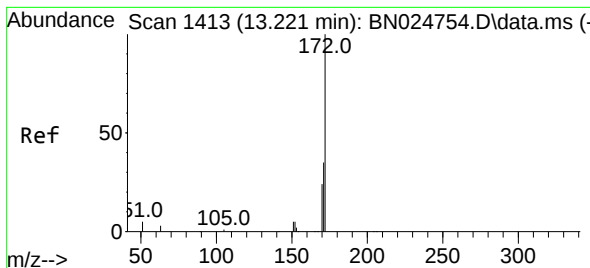


#14
2,4,6-Tribromophenol
Concen: 0.299 ng m
RT: 16.107 min Scan# 1691
Delta R.T. 0.010 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50



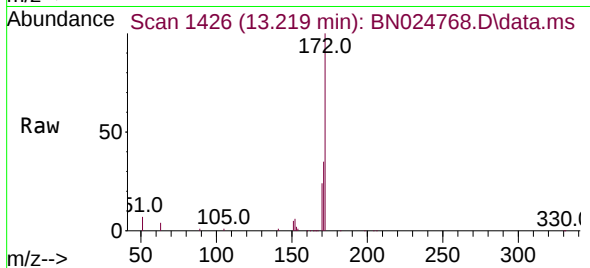
Tgt Ion:330 Resp: 1621
Ion Ratio Lower Upper
330 100
332 86.8 77.9 116.9
141 36.5 31.0 46.6





#15
2-Fluorobiphenyl
Concen: 0.476 ng
RT: 13.219 min Scan# 1413
Delta R.T. -0.003 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

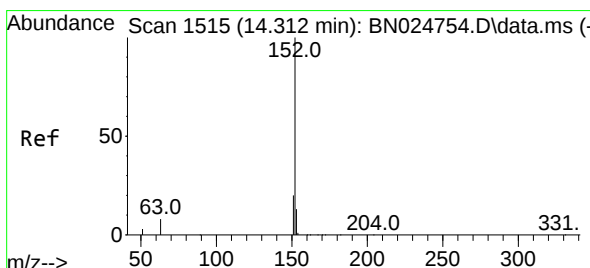
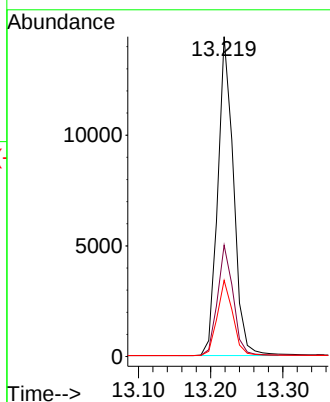
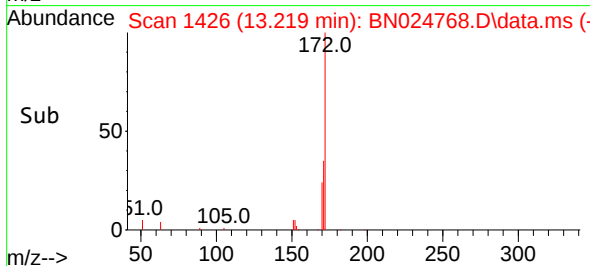
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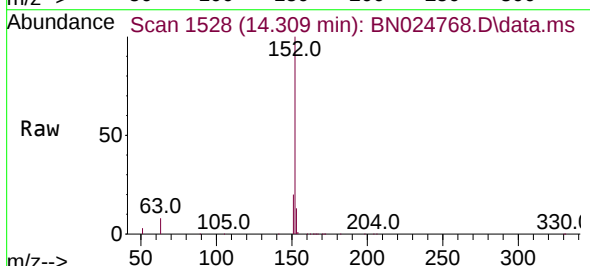
Tgt Ion:172 Resp: 21940
Ion Ratio Lower Upper
172 100
171 34.8 28.2 42.2
170 23.8 19.2 28.8

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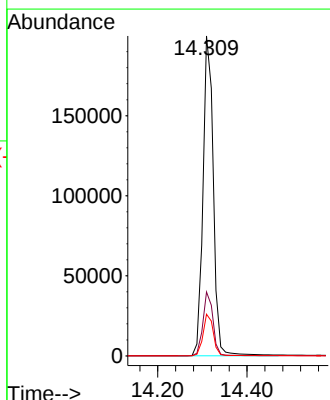
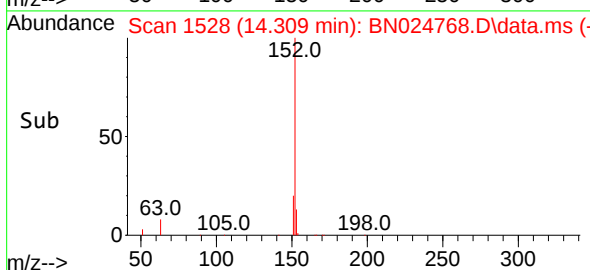
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023

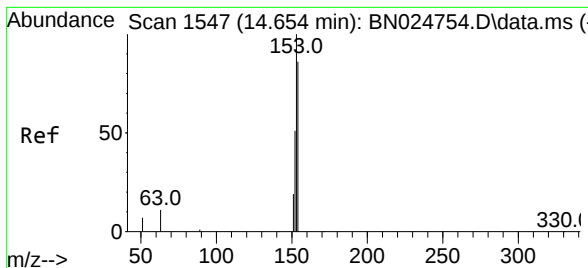


#16
Acenaphthylene
Concen: 6.348 ng
RT: 14.309 min Scan# 1528
Delta R.T. -0.003 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50



Tgt Ion:152 Resp: 322123
Ion Ratio Lower Upper
152 100
151 19.6 15.3 22.9
153 13.0 10.3 15.5





#17

Acenaphthene

Concen: 4.421 ng

RT: 14.651 min Scan# 1547

Delta R.T. -0.003 min

Lab File: BN024768.D

Acq: 05 Apr 2023 13:50

Instrument :

BNA_N

ClientSampleId :

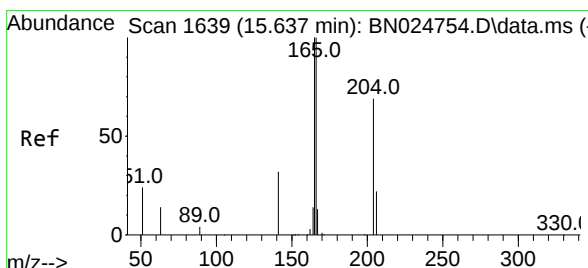
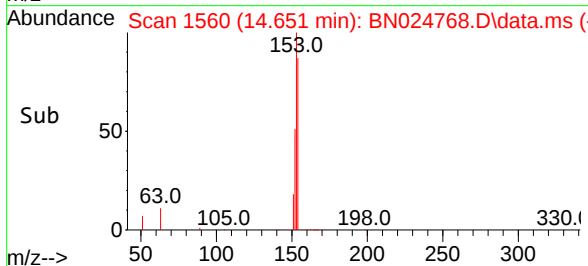
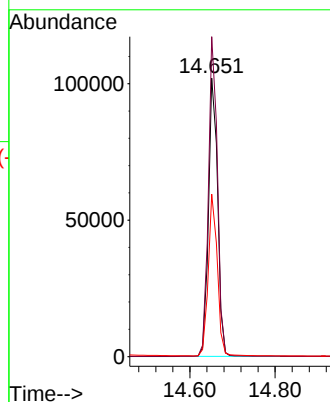
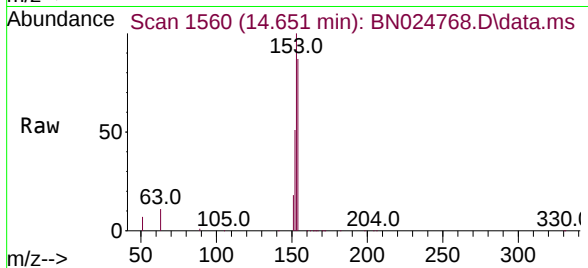
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Tgt Ion:154 Resp: 151789
 Ion Ratio Lower Upper
 154 100
 153 113.7 92.2 138.4
 152 57.7 47.1 70.7

Manual Integrations

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#18

Fluorene

Concen: 10.582 ng

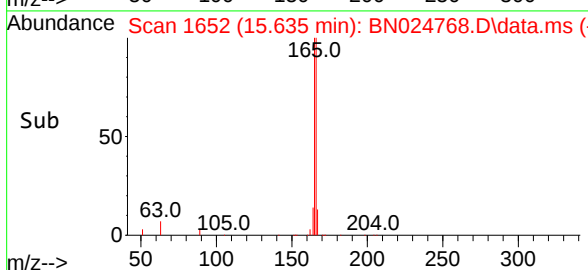
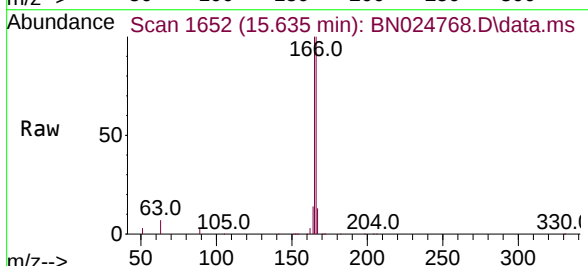
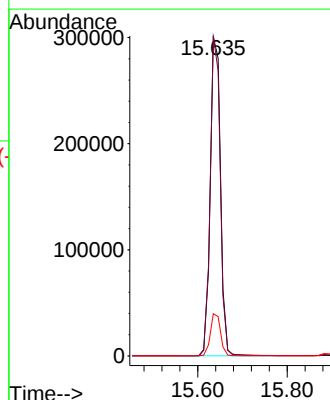
RT: 15.635 min Scan# 1652

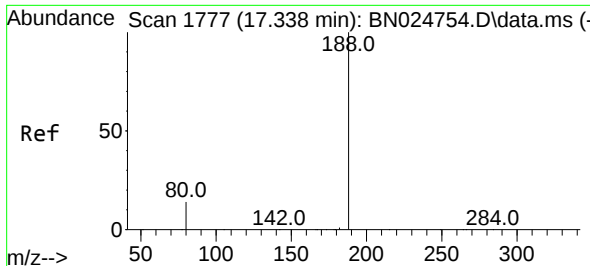
Delta R.T. -0.003 min

Lab File: BN024768.D

Acq: 05 Apr 2023 13:50

Tgt Ion:166 Resp: 498760
 Ion Ratio Lower Upper
 166 100
 165 98.8 78.3 117.5
 167 13.1 10.4 15.6





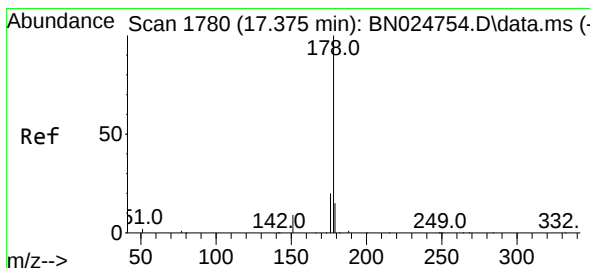
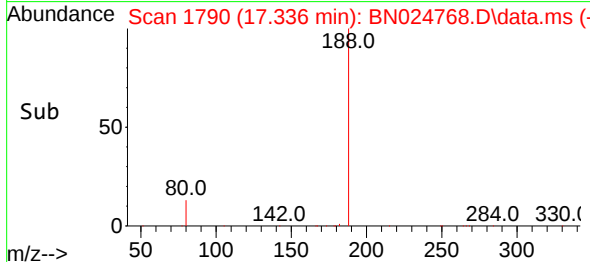
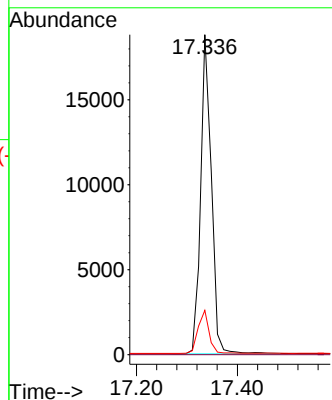
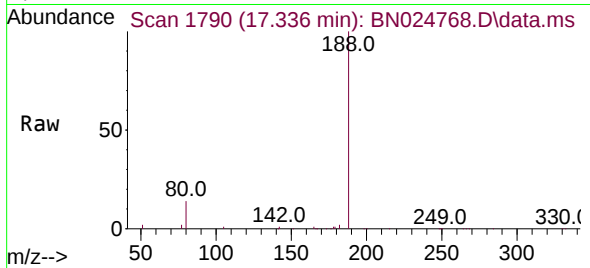
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.336 min Scan# 1790
Delta R.T. -0.003 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP

Tgt Ion:188 Resp: 27519
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.8 11.3 16.9

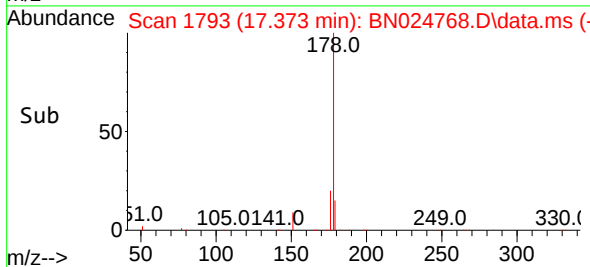
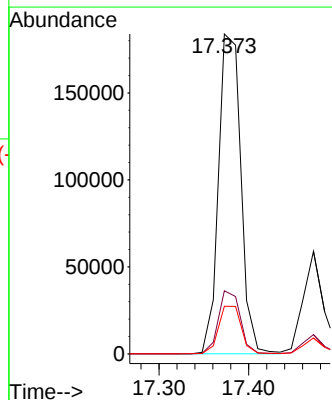
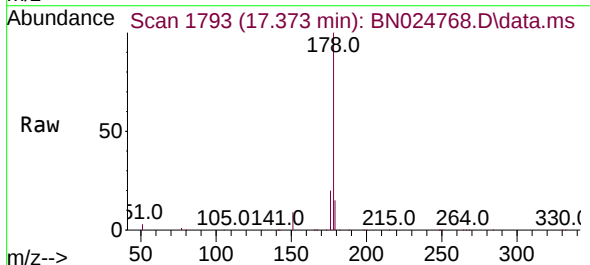
Manual Integrations
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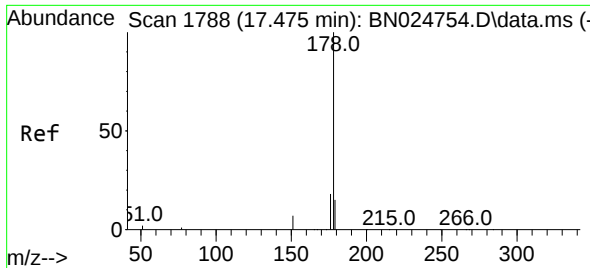
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023



#25
Phenanthrene
Concen: 3.997 ng
RT: 17.373 min Scan# 1793
Delta R.T. -0.003 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

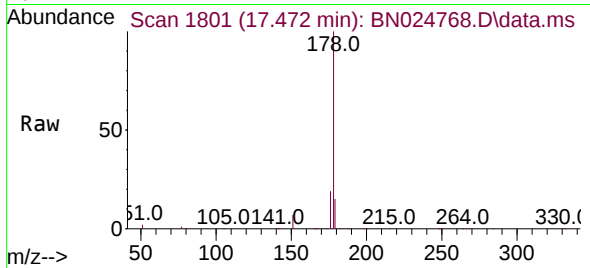
Tgt Ion:178 Resp: 319355
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.2
179 15.1 12.2 18.2





#26
 Anthracene
 Concen: 1.339 ng
 RT: 17.472 min Scan# 1801
 Delta R.T. -0.003 min
 Lab File: BN024768.D
 Acq: 05 Apr 2023 13:50

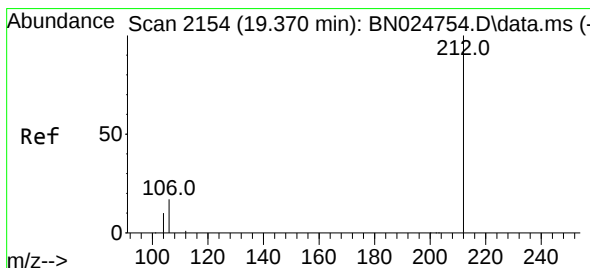
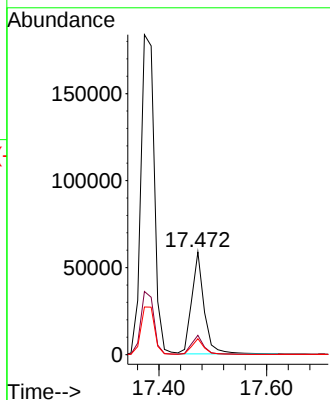
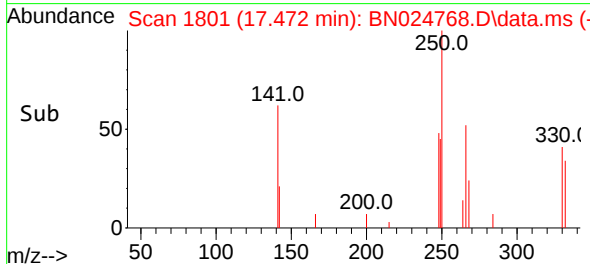
Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WP



Tgt Ion:178 Resp: 93291
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.9 22.3
 179 15.3 12.4 18.6

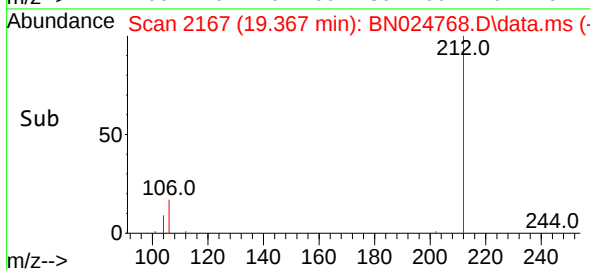
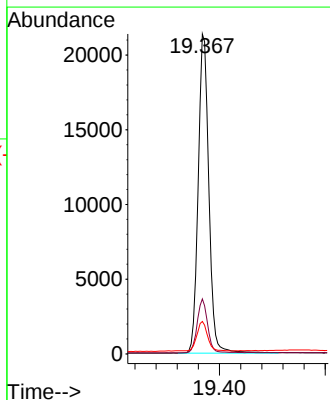
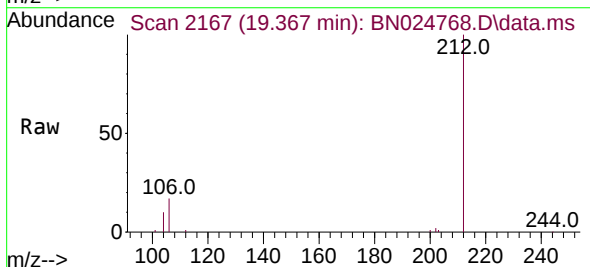
Manual Integrations
 APPROVED

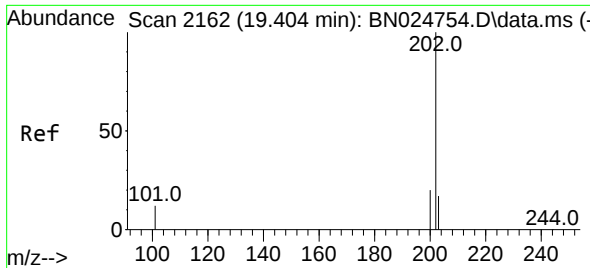
Reviewed By :Christian Giraldo 04/06/2023
 Supervised By :Jagrut Upadhyay 04/06/2023



#27
 Fluoranthene-d10
 Concen: 0.476 ng
 RT: 19.367 min Scan# 2167
 Delta R.T. -0.003 min
 Lab File: BN024768.D
 Acq: 05 Apr 2023 13:50

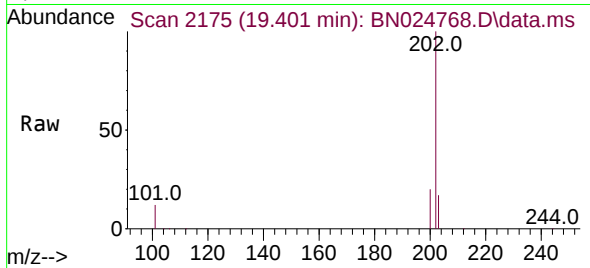
Tgt Ion:212 Resp: 29718
 Ion Ratio Lower Upper
 212 100
 106 16.5 13.2 19.8
 104 9.1 7.6 11.4





#28
Fluoranthene
Concen: 4.728 ng
RT: 19.401 min Scan# 2162
Delta R.T. 0.002 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

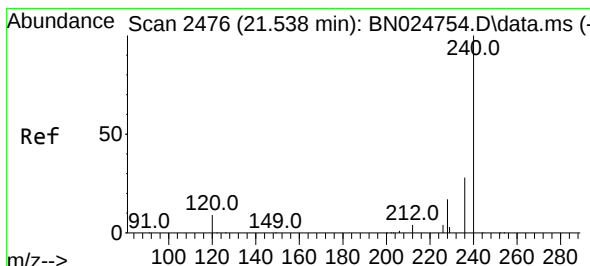
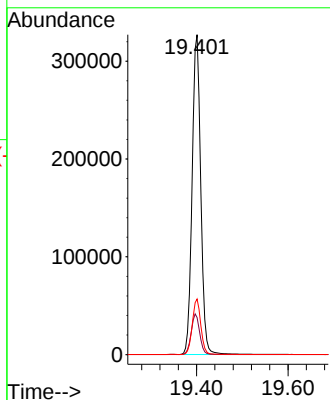
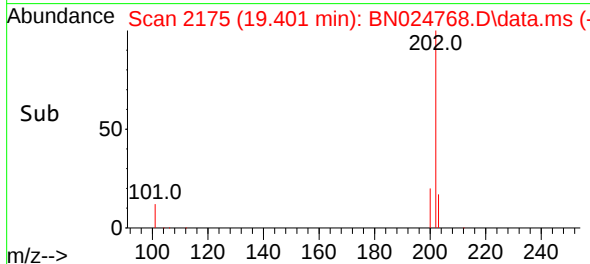
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



Tgt Ion:202 Resp: 428878
Ion Ratio Lower Upper
202 100
101 12.5 10.2 15.4
203 17.1 13.4 20.2

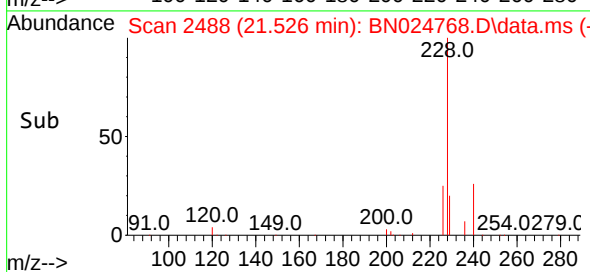
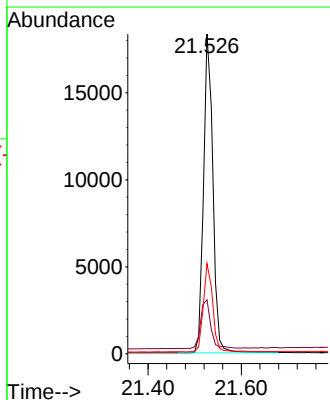
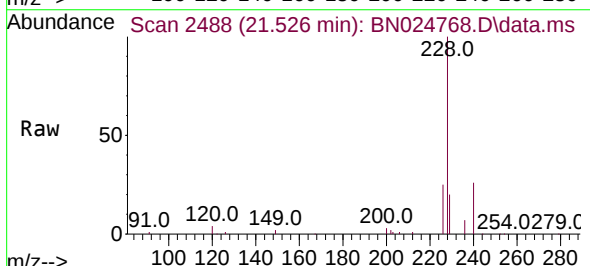
Manual Integrations
APPROVED

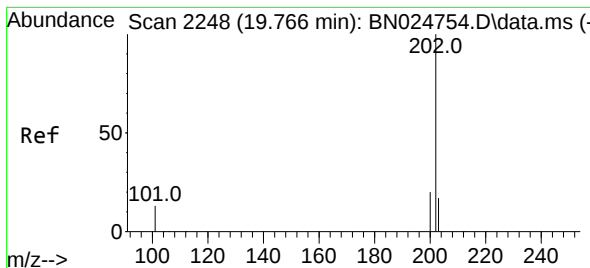
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.526 min Scan# 2488
Delta R.T. -0.003 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

Tgt Ion:240 Resp: 25266
Ion Ratio Lower Upper
240 100
120 16.9 8.8 13.2#
236 28.2 22.6 34.0





#30

Pyrene

Concen: 5.025 ng

RT: 19.764 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN024768.D

Acq: 05 Apr 2023 13:50

Instrument :

BNA_N

ClientSampleId :

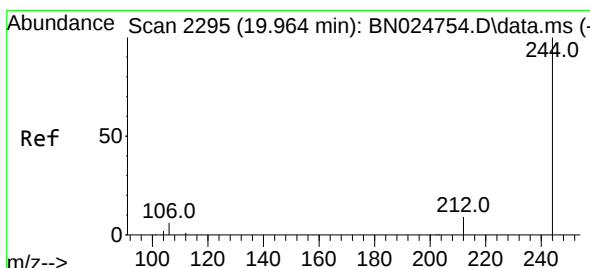
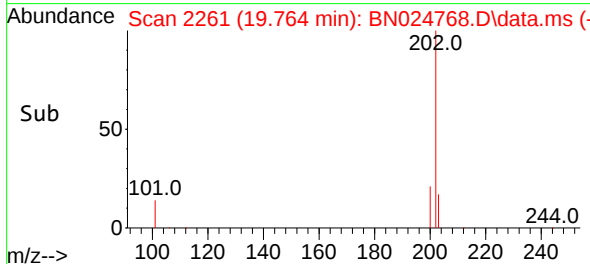
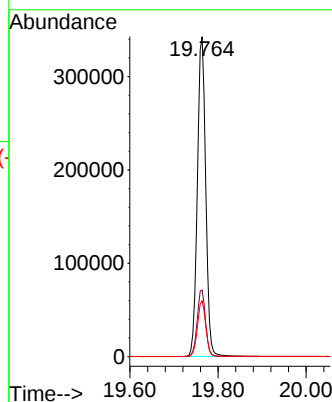
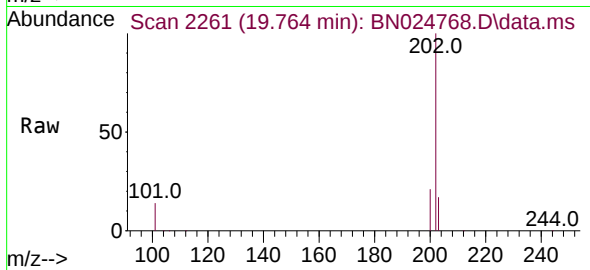
RR-PAH-WP

Tgt Ion:	202	Resp:	451310
Ion Ratio	Lower	Upper	
202	100		
200	20.9	16.7	25.1
203	17.4	14.2	21.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023



#31

Terphenyl-d14

Concen: 0.524 ng

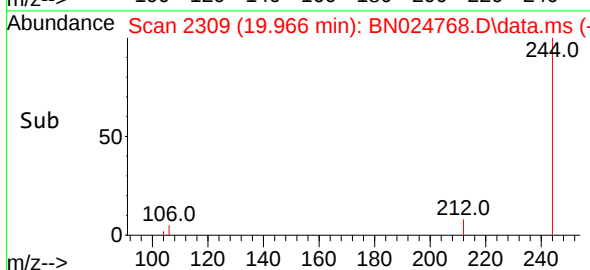
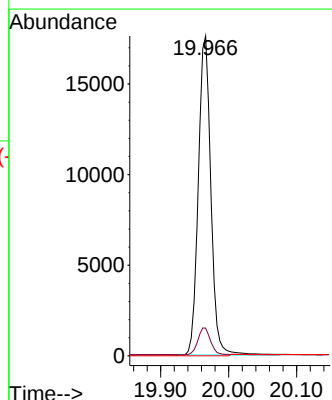
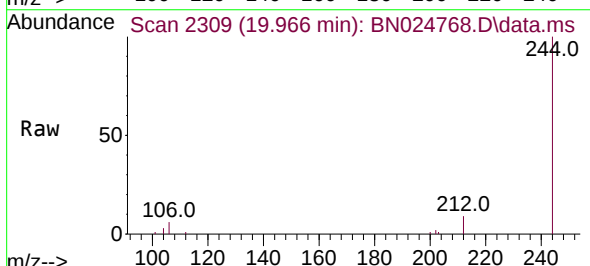
RT: 19.966 min Scan# 2309

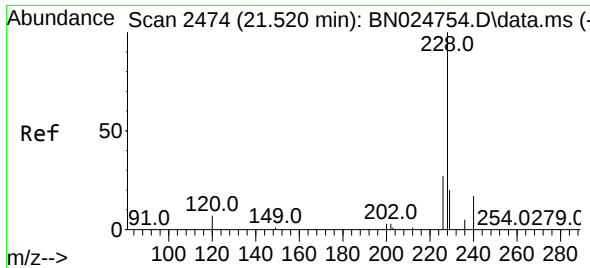
Delta R.T. 0.002 min

Lab File: BN024768.D

Acq: 05 Apr 2023 13:50

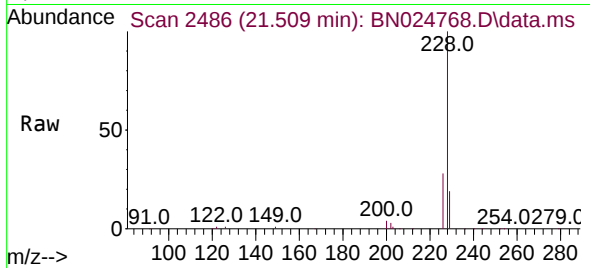
Tgt Ion:	244	Resp:	29990
Ion Ratio	Lower	Upper	
244	100		
212	8.7	7.4	11.0
122	0.0	0.0	0.0





#32
Benzo(a)anthracene
Concen: 4.270 ng
RT: 21.509 min Scan# 2486
Delta R.T. -0.003 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

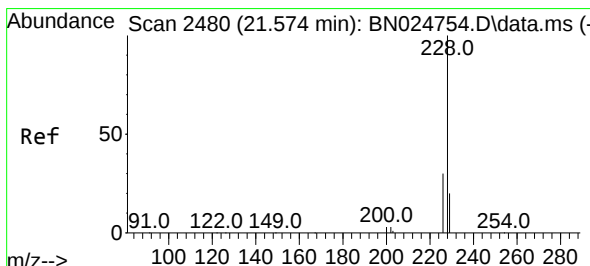
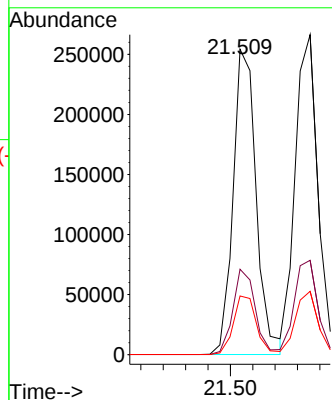
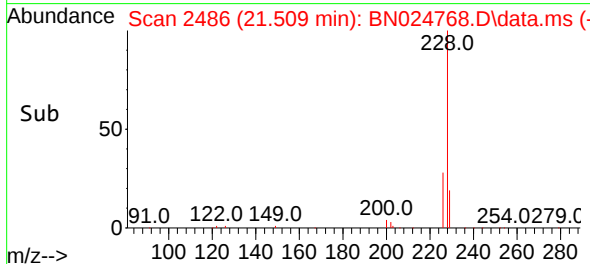
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



Tgt Ion:228 Resp: 364752
Ion Ratio Lower Upper
228 100
226 28.0 21.5 32.3
229 19.2 16.0 24.0

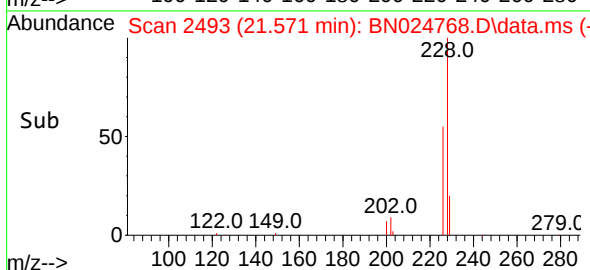
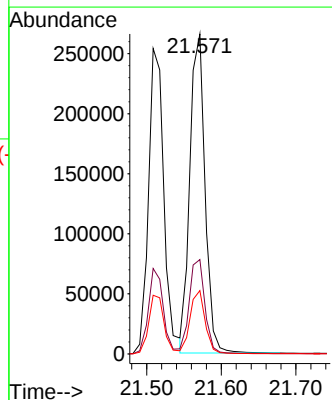
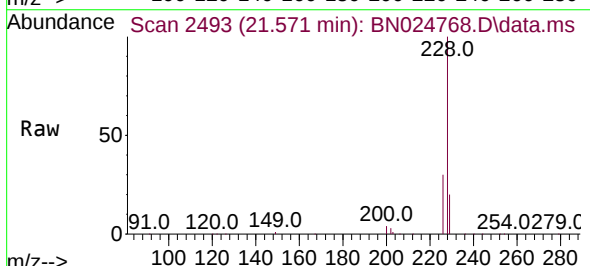
Manual Integrations
APPROVED

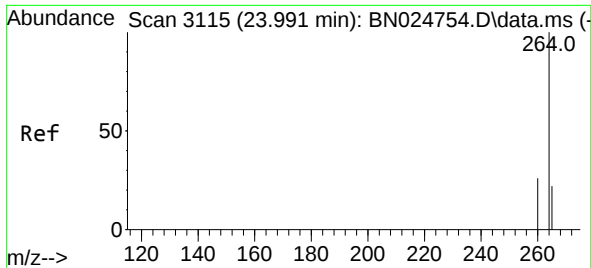
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023



#33
Chrysene
Concen: 4.211 ng
RT: 21.571 min Scan# 2493
Delta R.T. 0.006 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

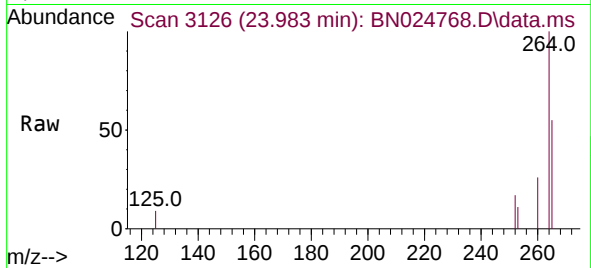
Tgt Ion:228 Resp: 376860
Ion Ratio Lower Upper
228 100
226 29.5 23.9 35.9
229 19.8 16.0 24.0





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.983 min Scan# 3115
Delta R.T. 0.006 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

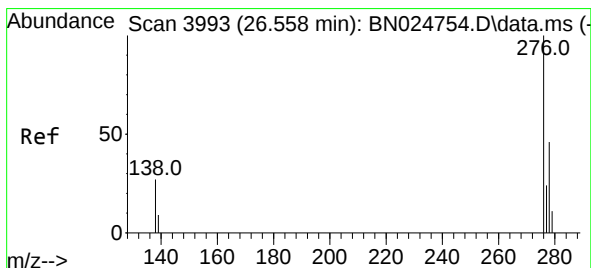
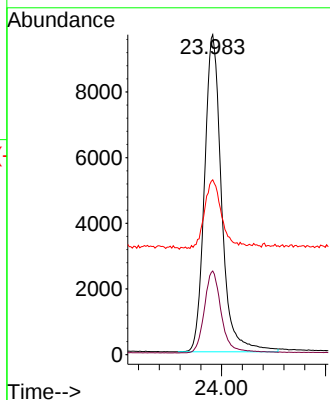
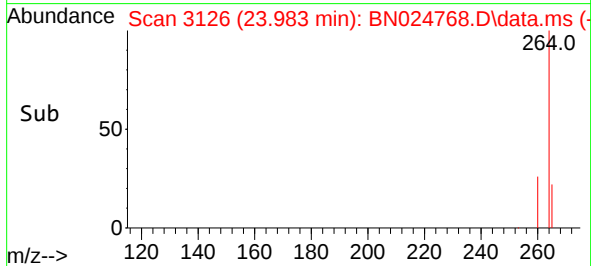
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



Tgt Ion:264 Resp: 22042
Ion Ratio Lower Upper
264 100
260 26.1 20.8 31.2
265 54.6 46.5 69.7

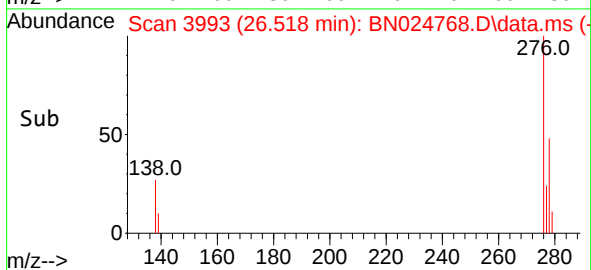
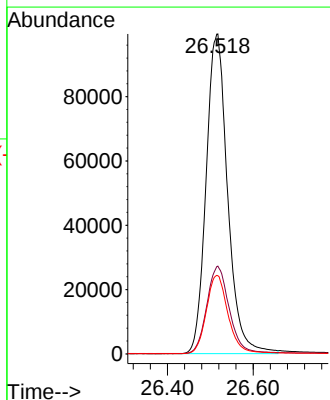
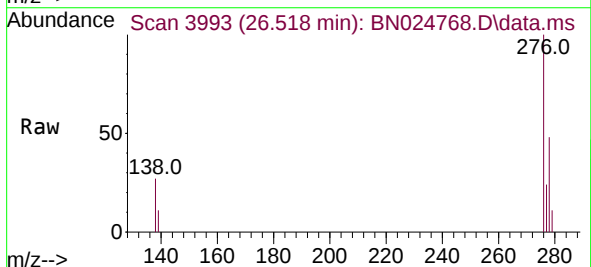
Manual Integrations
APPROVED

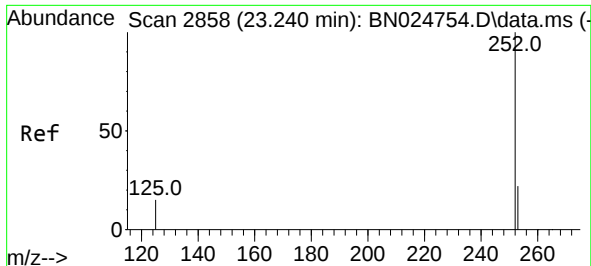
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023



#36
Indeno(1,2,3-cd)pyrene
Concen: 3.586 ng
RT: 26.518 min Scan# 3993
Delta R.T. 0.006 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

Tgt Ion:276 Resp: 346557
Ion Ratio Lower Upper
276 100
138 28.5 23.4 35.0
277 24.8 19.8 29.8





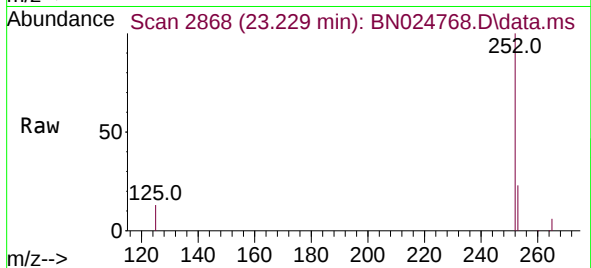
#37
Benzo(b)fluoranthene
Concen: 1.119 ng
RT: 23.229 min Scan# 2868
Delta R.T. 0.003 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

Instrument :

BN024768.D

ClientSampleId :

RR-PAH-WP

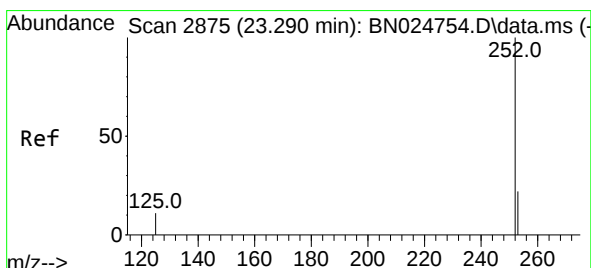
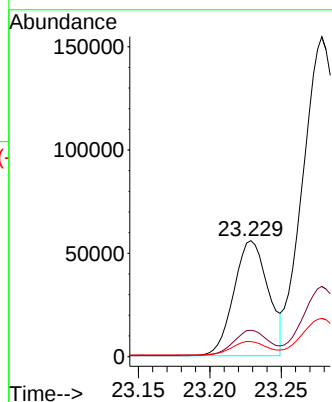
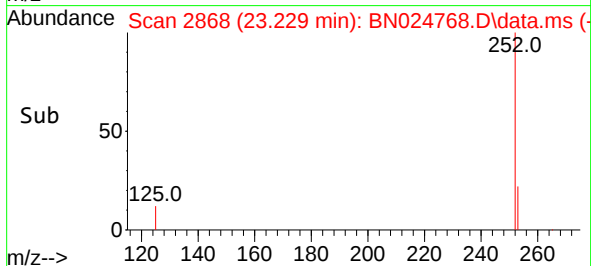


Tgt Ion:252 Resp: 93570
Ion Ratio Lower Upper
252 100
253 22.7 20.0 30.0
125 13.0 14.6 21.8

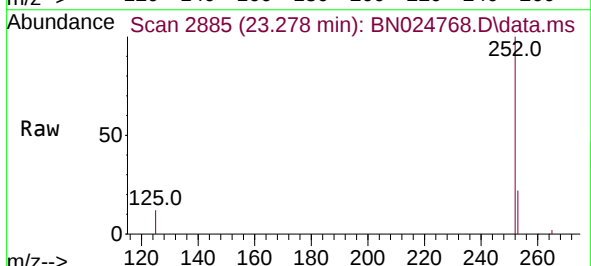
Manual Integrations

APPROVED

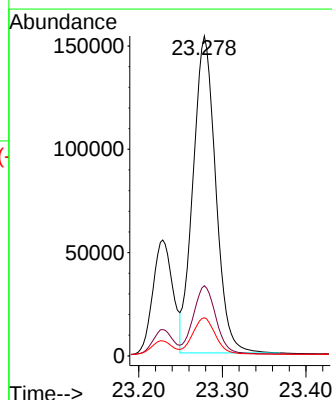
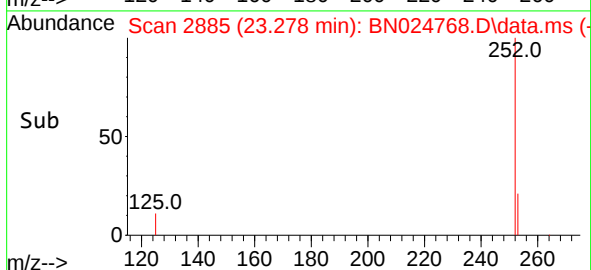
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023

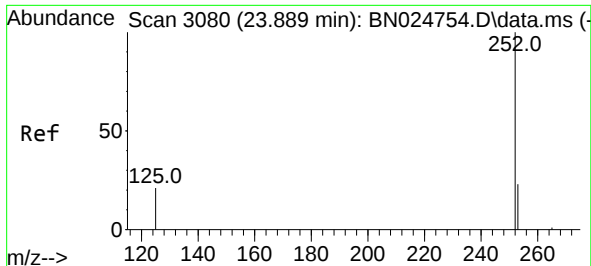


#38
Benzo(k)fluoranthene
Concen: 3.478 ng
RT: 23.278 min Scan# 2885
Delta R.T. 0.003 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50



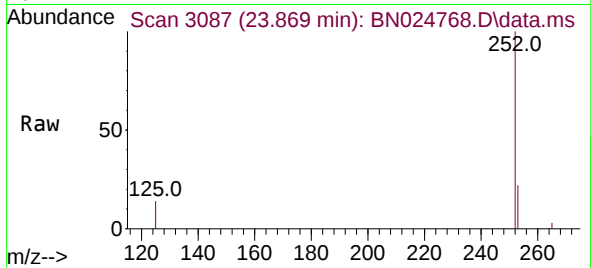
Tgt Ion:252 Resp: 288157
Ion Ratio Lower Upper
252 100
253 21.9 20.0 30.0
125 12.0 11.9 17.9





#39
Benzo(a)pyrene
Concen: 3.470 ng
RT: 23.869 min Scan# 3080
Delta R.T. 0.006 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

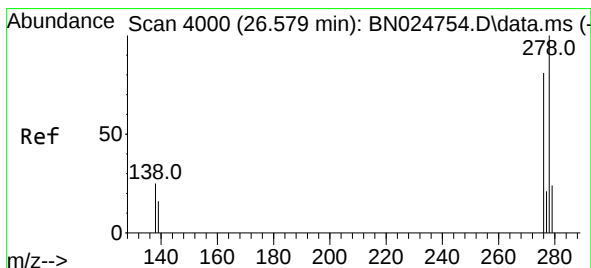
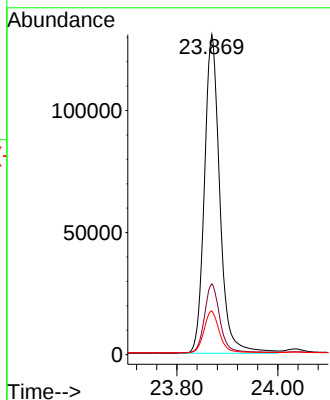
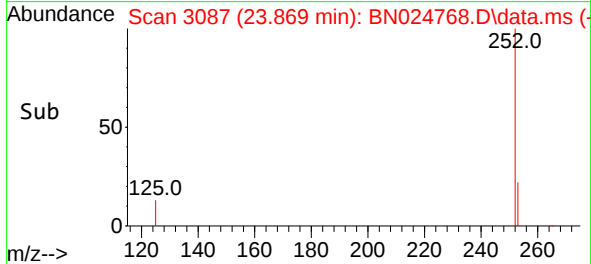
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



Tgt Ion:252 Resp: 277419
Ion Ratio Lower Upper
252 100
253 22.1 21.0 31.6
125 13.7 20.2 30.4

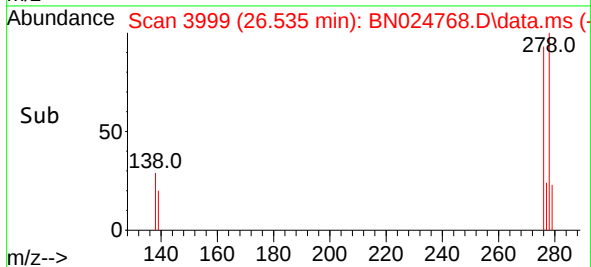
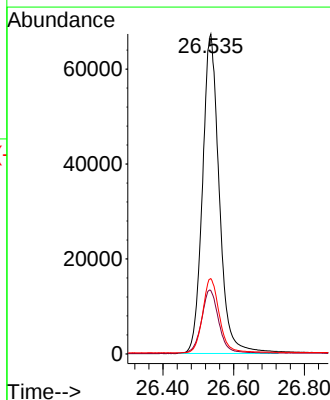
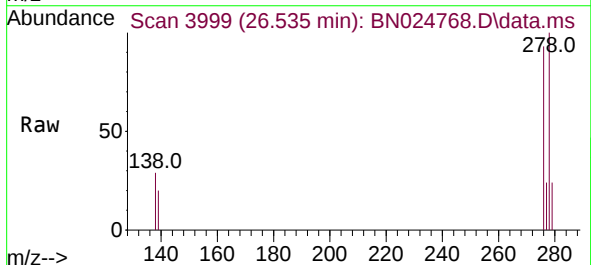
Manual Integrations
APPROVED

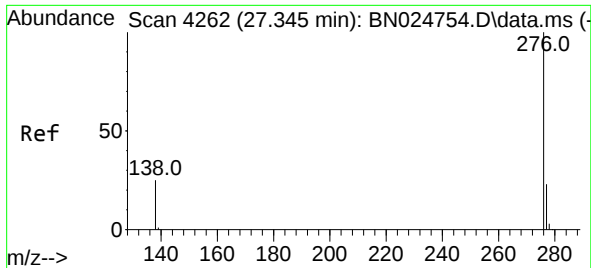
Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023



#40
Dibenzo(a,h)anthracene
Concen: 2.924 ng
RT: 26.535 min Scan# 3999
Delta R.T. 0.006 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

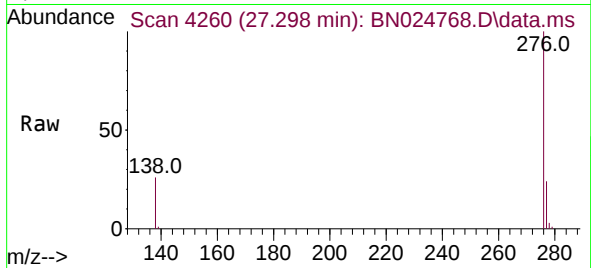
Tgt Ion:278 Resp: 222364
Ion Ratio Lower Upper
278 100
139 19.8 17.1 25.7
279 23.5 20.7 31.1





#41
Benzo(g,h,i)perylene
Concen: 3.173 ng
RT: 27.298 min Scan# 41
Delta R.T. 0.003 min
Lab File: BN024768.D
Acq: 05 Apr 2023 13:50

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WP



Tgt Ion:276 Resp: 261459
Ion Ratio Lower Upper
276 100
277 23.5 19.2 28.8
138 25.9 20.9 31.3

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 04/06/2023
Supervised By :Jagrut Upadhyay 04/06/2023

