

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050422\
 Data File : BN019694.D
 Acq On : 05 May 2022 13:46
 Operator : CG/JU
 Sample : N1870-21DL 10X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 05/06/2022
 Supervised By : mohammad ahmed 05/09/2022

Quant Time: May 05 14:56:33 2022
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN050422.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 04 15:20:22 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.854	152	6197	0.400	ng	0.00
7) Naphthalene-d8	10.647	136	18578	0.400	ng	0.00
13) Acenaphthene-d10	14.474	164	10390	0.400	ng	-0.01
19) Phenanthrene-d10	17.215	188	20897	0.400	ng	0.00
29) Chrysene-d12	21.404	240	14722	0.400	ng	# 0.00
35) Perylene-d12	23.749	264	12495	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.435	112	523	0.036	ng	0.00
5) Phenol-d6	7.016	99	628	0.035	ng	0.00
8) Nitrobenzene-d5	9.003	82	1088	0.072	ng	0.00
11) 2-Methylnaphthalene-d10	12.234	152	1032	0.034	ng	0.00
14) 2,4,6-Tribromophenol	15.964	330	102	0.027	ng	0.00
15) 2-Fluorobiphenyl	13.105	172	4848	0.108	ng	0.00
27) Fluoranthene-d10	19.248	212	1833	0.032	ng	0.00
31) Terphenyl-d14	19.847	244	9071	0.263	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.690	128	33219	0.625	ng	100
12) 2-Methylnaphthalene	12.310	142	10027	0.288	ng	98
16) Acenaphthylene	14.196	152	51236	1.022	ng	99
17) Acenaphthene	14.538	154	46232	1.340	ng	99
18) Fluorene	15.521	166	26840	0.633	ng	99
25) Phenanthrene	17.256	178	7086	0.102	ng	99
26) Anthracene	17.348	178	15019	0.255	ng	99
28) Fluoranthene	19.278	202	16060	0.222	ng	99
30) Pyrene	19.640	202	21843	0.359	ng	100
32) Benzo(a)anthracene	21.386	228	6357	0.122	ng	98
33) Chrysene	21.440	228	11058	0.194	ng	100
36) Indeno(1,2,3-cd)pyrene	26.158	276	16866	0.297	ng	95
37) Benzo(b)fluoranthene	23.039	252	13862	0.268	ng	95
38) Benzo(k)fluoranthene	23.086	252	18608m	0.340	ng	
39) Benzo(a)pyrene	23.641	252	3606	0.092	ng	# 88
40) Dibenzo(a,h)anthracene	26.173	278	6688	0.145	ng	97
41) Benzo(g,h,i)perylene	26.895	276	15723	0.343	ng	99

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

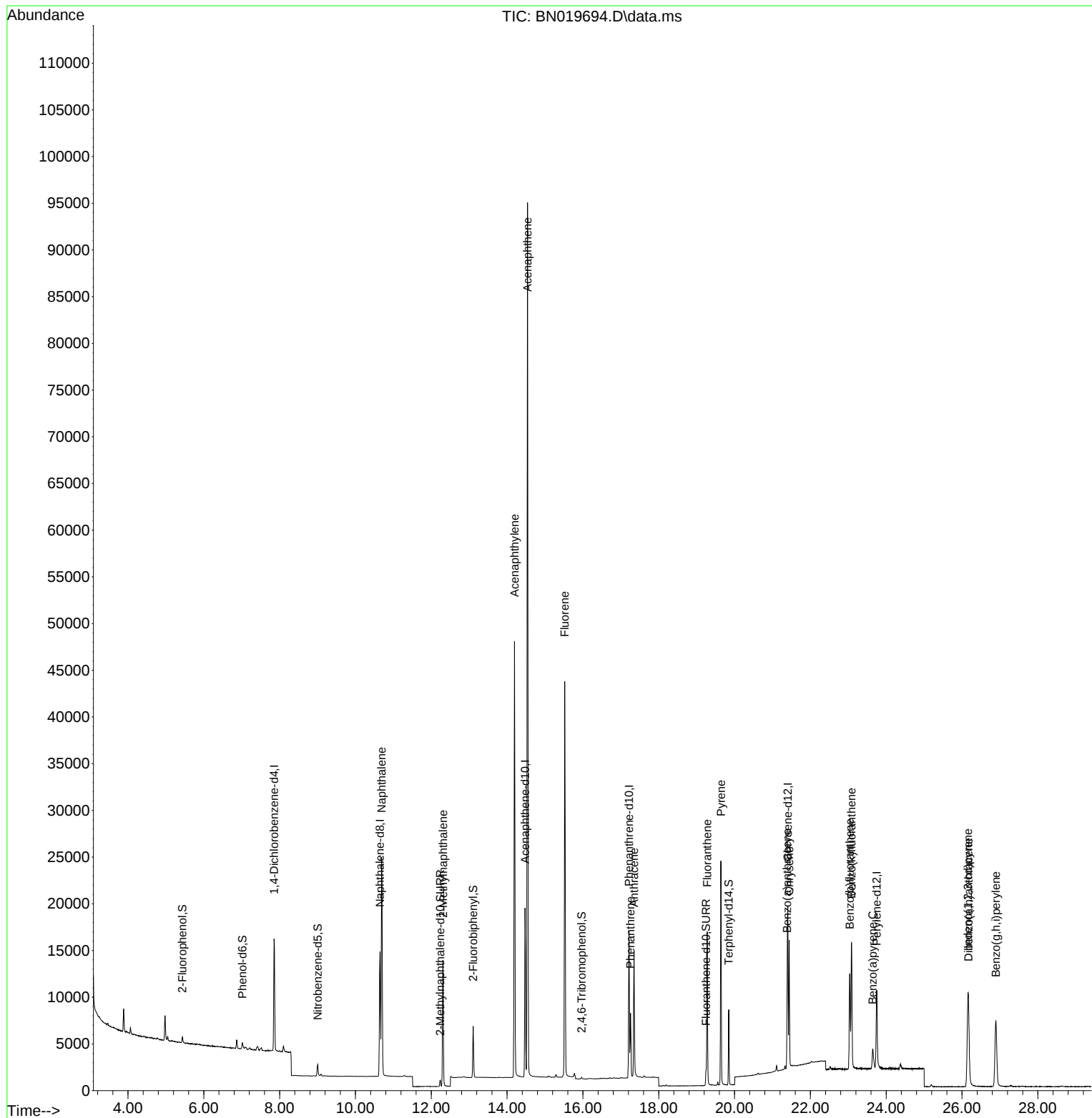
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050422\
Data File : BN019694.D
Acq On : 05 May 2022 13:46
Operator : CG/JU
Sample : N1870-21DL 10X
Misc :
ALS Vial : 37 Sample Multiplier: 1

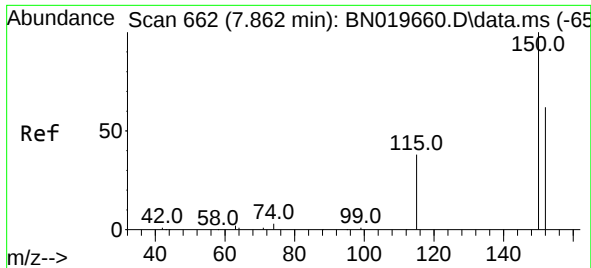
Instrument :
BNA_N
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Supervised By :mohammad ahmed 05/09/2022

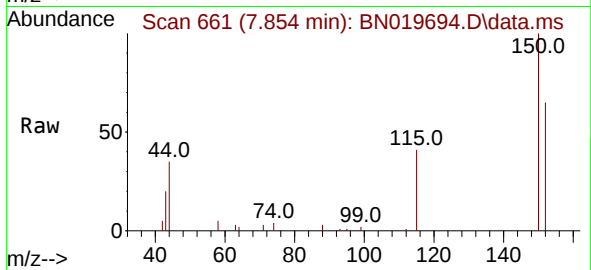
Quant Time: May 05 14:56:33 2022
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN050422.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 04 15:20:22 2022
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.854 min Scan# 619
Delta R.T. -0.008 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

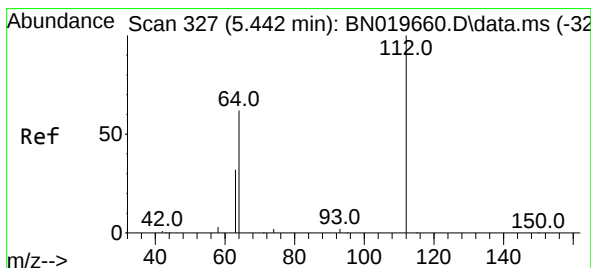
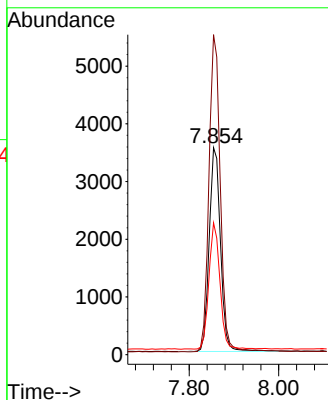
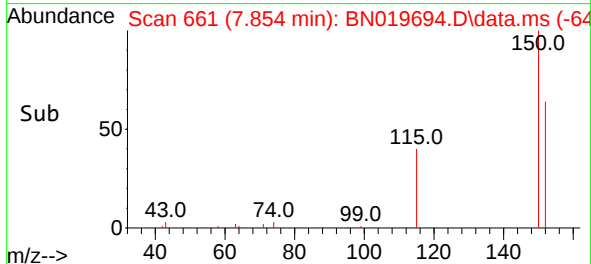
Instrument :
BNA_N
ClientSampleId :
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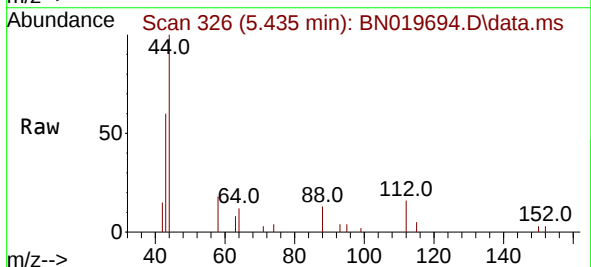
Tgt Ion:152 Resp: 619
Ion Ratio Lower Upper
152 100
150 154.5 122.6 183.8
115 63.7 49.0 73.6

Manual Integrations
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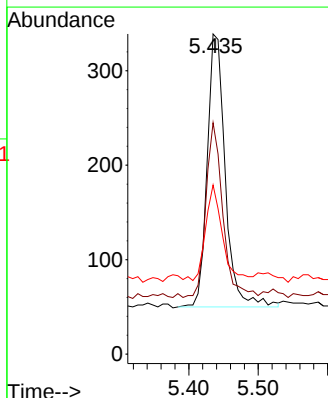
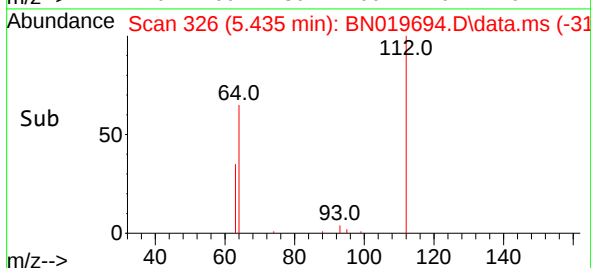
Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022

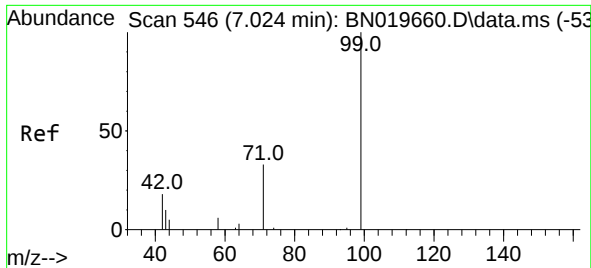


#4
2-Fluorophenol
Concen: 0.036 ng
RT: 5.435 min Scan# 326
Delta R.T. -0.007 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46



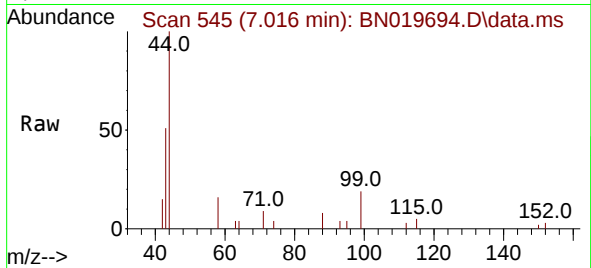
Tgt Ion:112 Resp: 523
Ion Ratio Lower Upper
112 100
64 59.7 47.3 70.9
63 32.9 24.6 36.8





#5
Phenol-d6
Concen: 0.035 ng
RT: 7.016 min Scan# 546
Delta R.T. -0.007 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

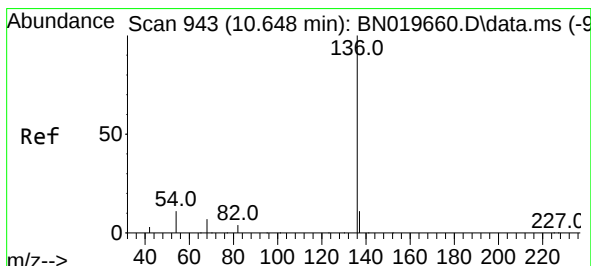
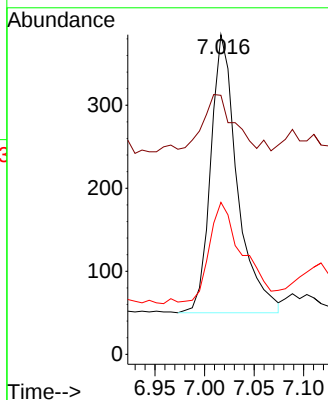
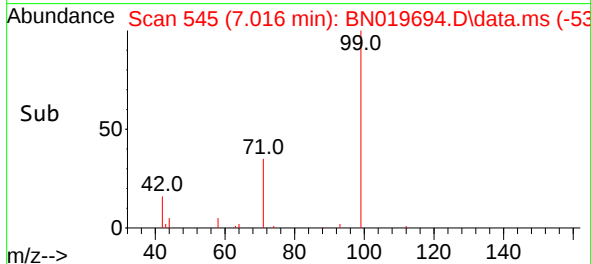
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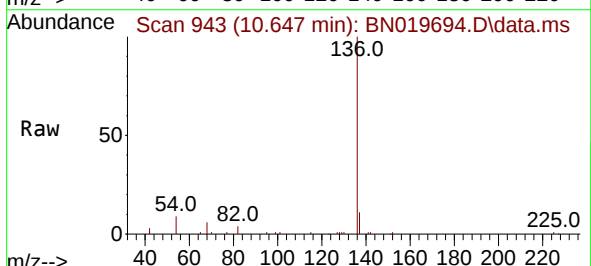
Tgt Ion: 99 Resp: 628
Ion Ratio Lower Upper
99 100
42 24.0 15.8 23.8
71 45.4 26.5 39.7

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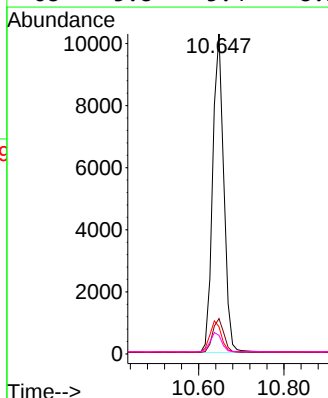
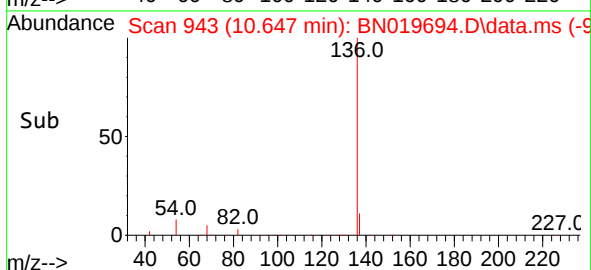
Reviewed By :Christian Giraldo 05/06/2022
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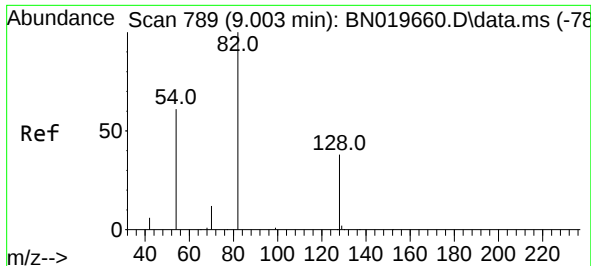


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.647 min Scan# 943
Delta R.T. -0.000 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46



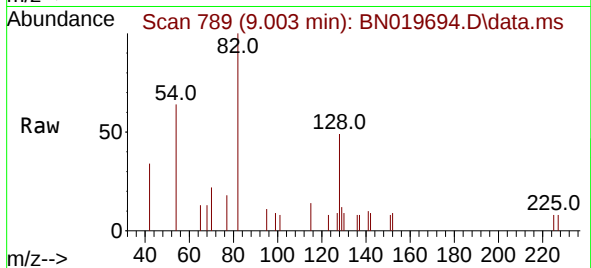
Tgt Ion:136 Resp: 18578
Ion Ratio Lower Upper
136 100
137 11.0 9.1 13.7
54 8.5 7.8 11.6
68 5.8 5.4 8.2





#8
Nitrobenzene-d5
Concen: 0.072 ng
RT: 9.003 min Scan# 789
Delta R.T. -0.000 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

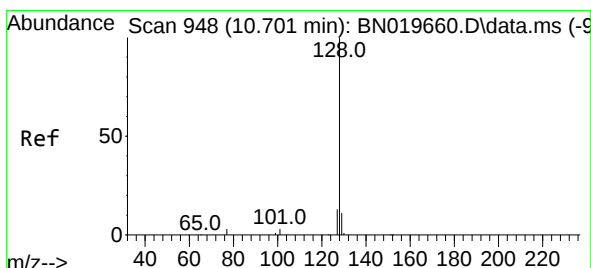
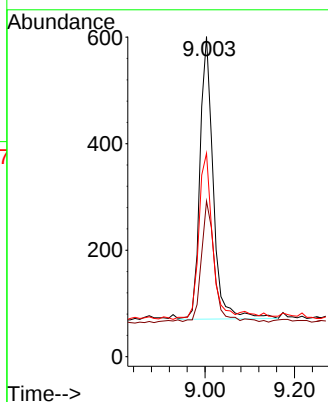
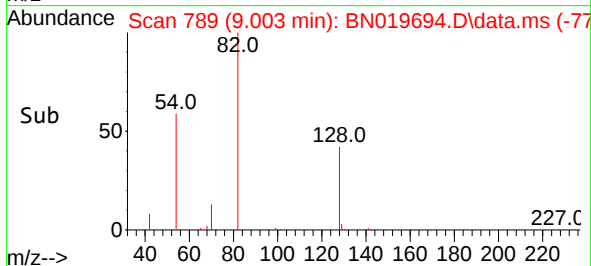
Instrument :
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ClientSampleId :
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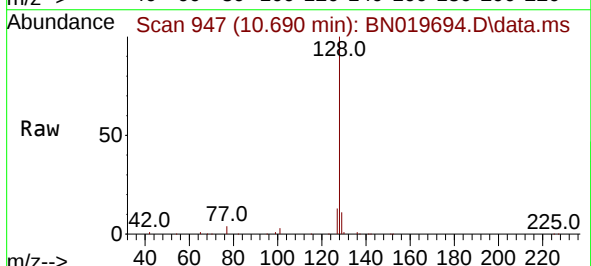
Tgt Ion: 82 Resp: 1088
Ion Ratio Lower Upper
82 100
128 48.6 32.4 48.6
54 63.6 44.4 66.6

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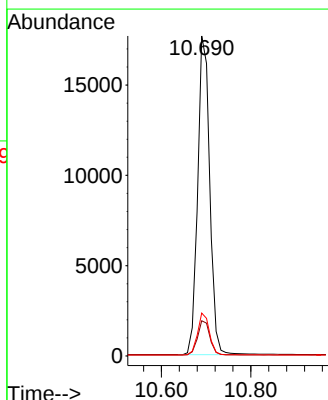
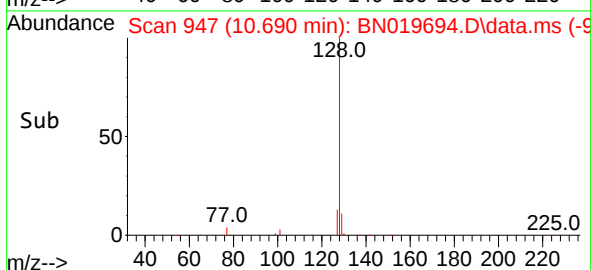
Reviewed By :Christian Giraldo 05/06/2022
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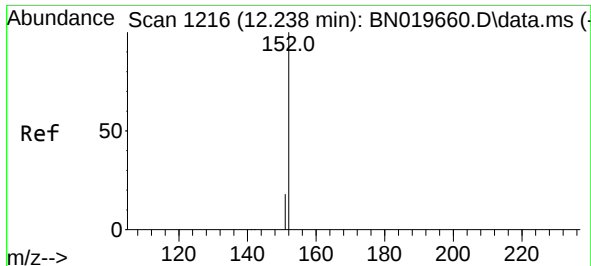


#9
Naphthalene
Concen: 0.625 ng
RT: 10.690 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46



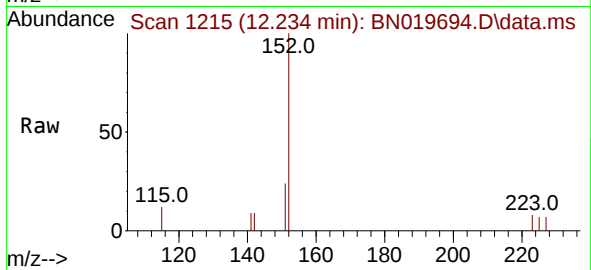
Tgt Ion:128 Resp: 33219
Ion Ratio Lower Upper
128 100
129 11.0 9.0 13.4
127 13.4 10.8 16.2





#11
2-Methylnaphthalene-d10
Concen: 0.034 ng
RT: 12.234 min Scan# 1215
Delta R.T. -0.004 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

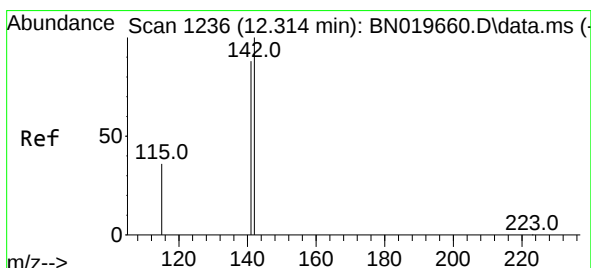
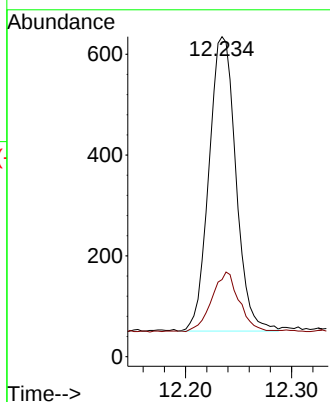
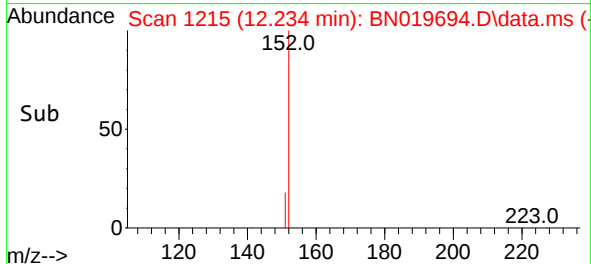
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



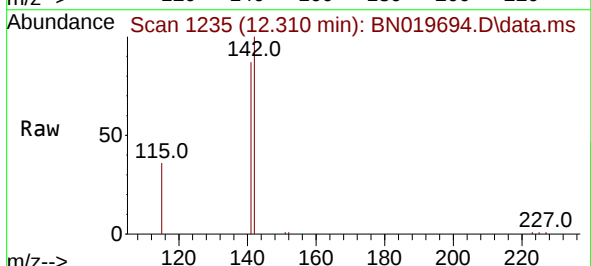
Tgt Ion:152 Resp: 1032
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4

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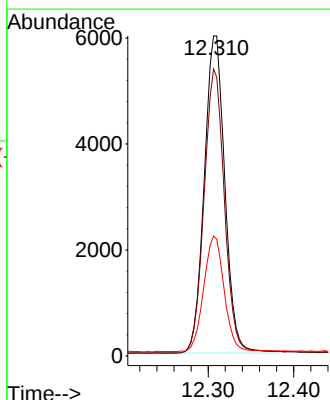
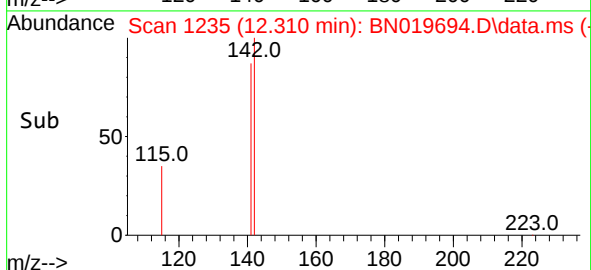
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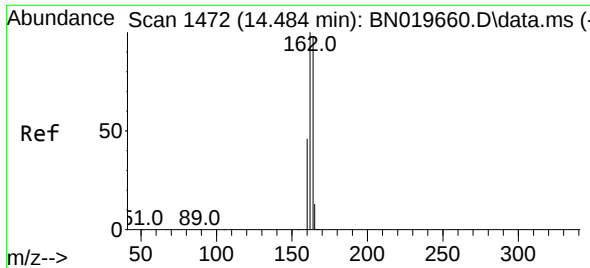


#12
2-Methylnaphthalene
Concen: 0.288 ng
RT: 12.310 min Scan# 1235
Delta R.T. -0.004 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46



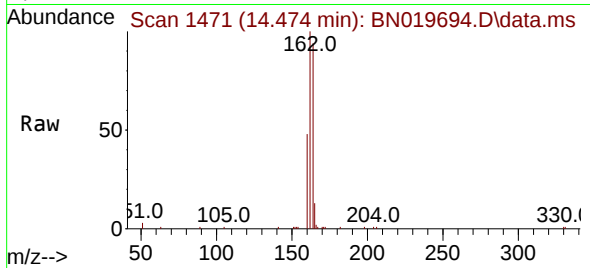
Tgt Ion:142 Resp: 10027
Ion Ratio Lower Upper
142 100
141 87.0 71.0 106.6
115 36.4 29.6 44.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.474 min Scan# 1472
Delta R.T. -0.011 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

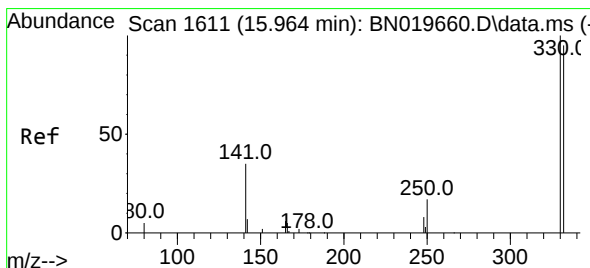
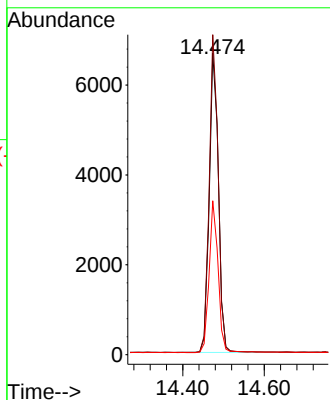
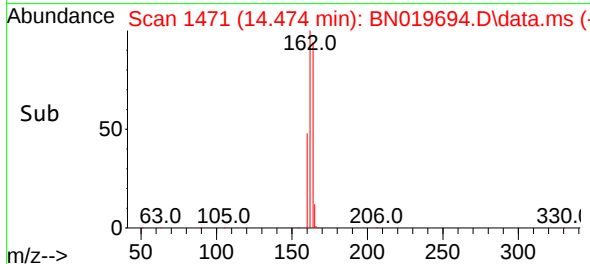
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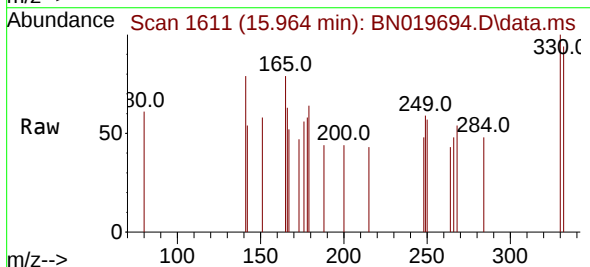
Tgt Ion:164 Resp: 10390
Ion Ratio Lower Upper
164 100
162 106.2 81.8 122.6
160 51.1 38.3 57.5

Manual Integrations
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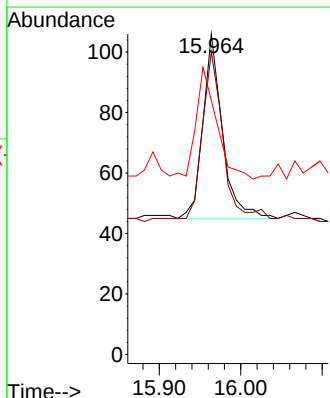
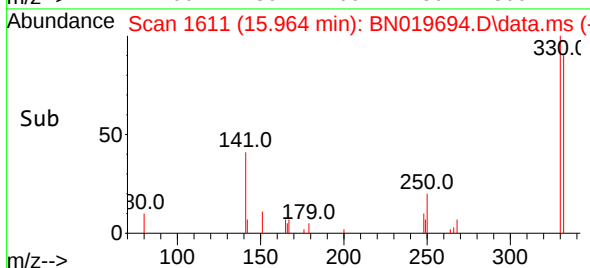
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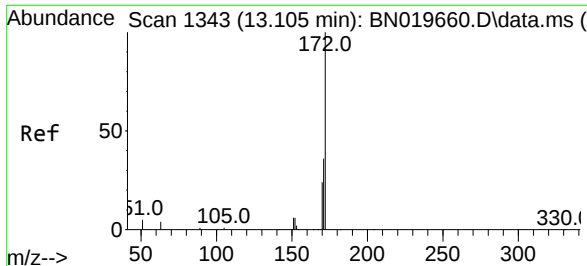


#14
2,4,6-Tribromophenol
Concen: 0.027 ng
RT: 15.964 min Scan# 1611
Delta R.T. -0.000 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46



Tgt Ion:330 Resp: 102
Ion Ratio Lower Upper
330 100
332 92.2 76.2 114.4
141 63.7 39.7 59.5#





#15
2-Fluorobiphenyl
Concen: 0.108 ng
RT: 13.105 min Scan# 1343
Delta R.T. -0.000 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

Instrument :

BNA_N

ClientSampleId :

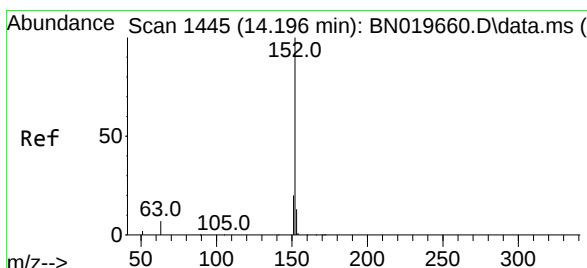
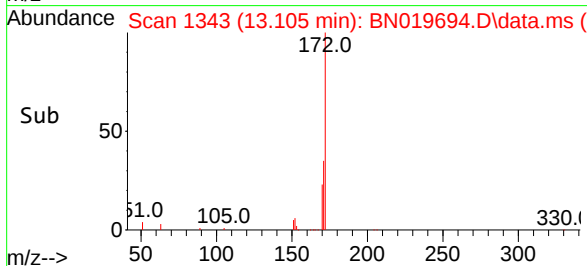
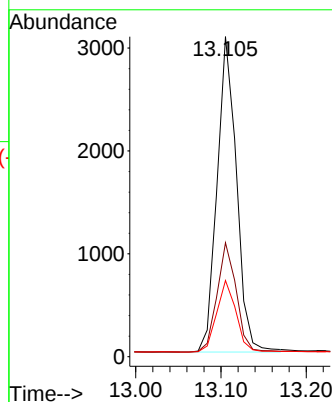
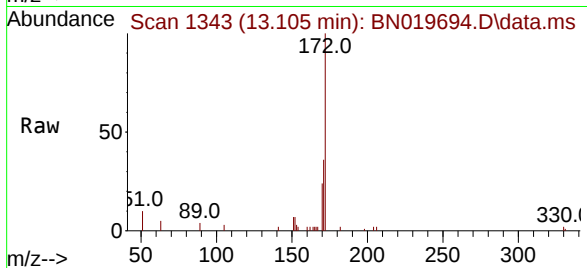
RR-PAH-WPDL

Tgt Ion:172 Resp: 4848
Ion Ratio Lower Upper
172 100
171 35.6 28.0 42.0
170 23.8 19.0 28.4

Manual Integrations

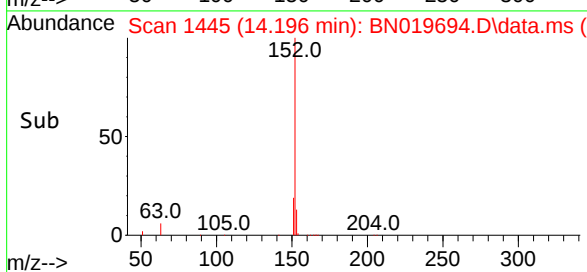
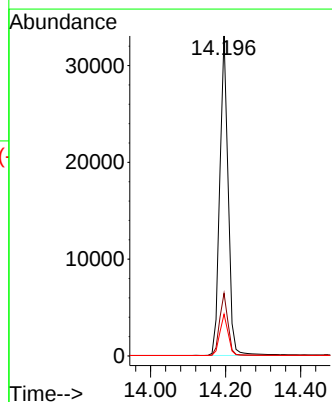
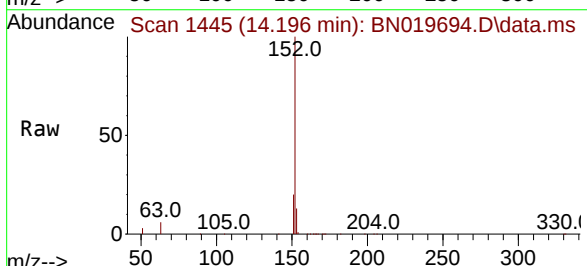
APPROVED

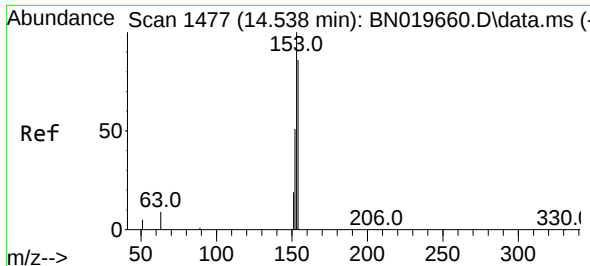
Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022



#16
Acenaphthylene
Concen: 1.022 ng
RT: 14.196 min Scan# 1445
Delta R.T. -0.000 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

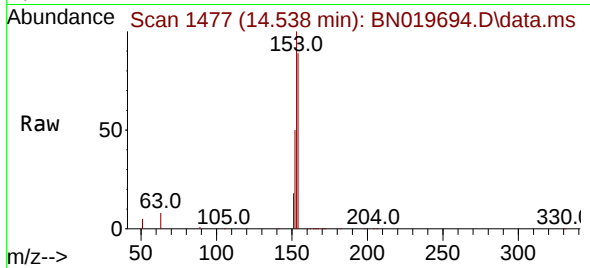
Tgt Ion:152 Resp: 51236
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.4
153 12.9 10.5 15.7





#17
Acenaphthene
Concen: 1.340 ng
RT: 14.538 min Scan# 1477
Delta R.T. -0.000 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

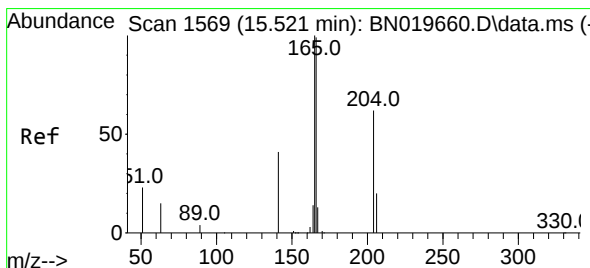
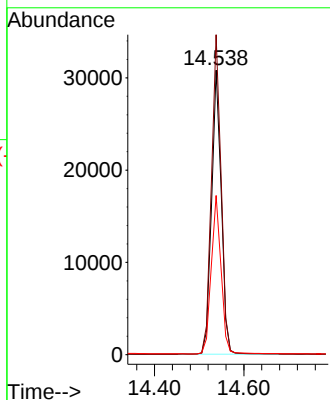
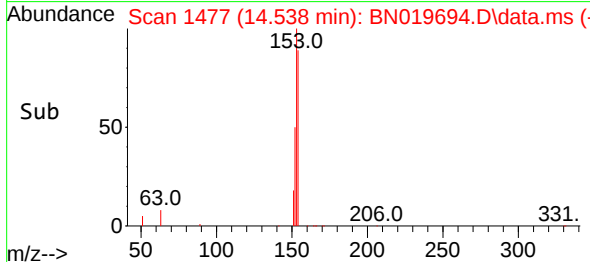
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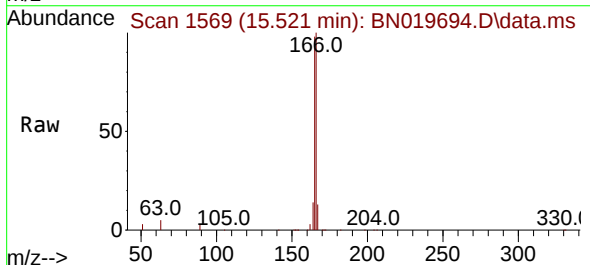
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Ion Ratio Lower Upper
154 100
153 112.6 89.3 133.9
152 56.4 44.1 66.1

Manual Integrations
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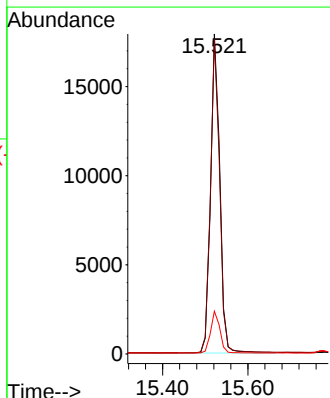
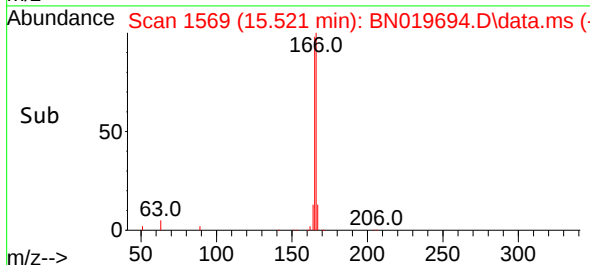
Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022

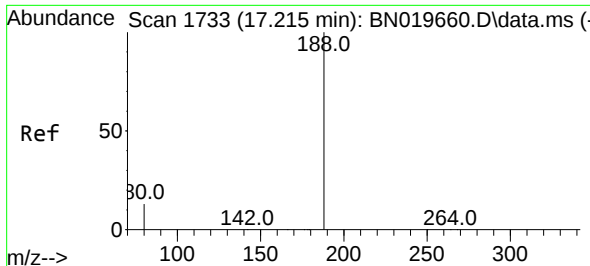


#18
Fluorene
Concen: 0.633 ng
RT: 15.521 min Scan# 1569
Delta R.T. -0.000 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46



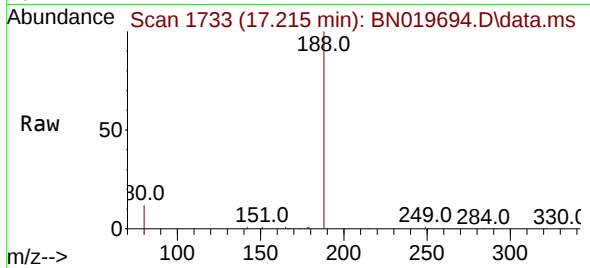
Tgt Ion:166 Resp: 26840
Ion Ratio Lower Upper
166 100
165 97.9 79.1 118.7
167 13.3 10.7 16.1





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.215 min Scan# 1733
Delta R.T. -0.000 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

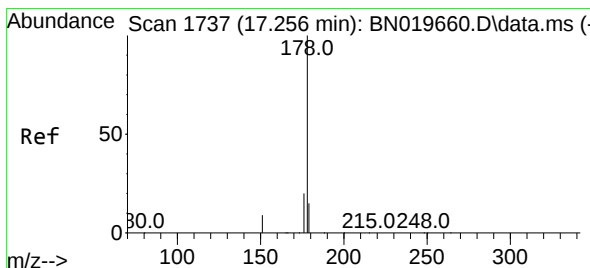
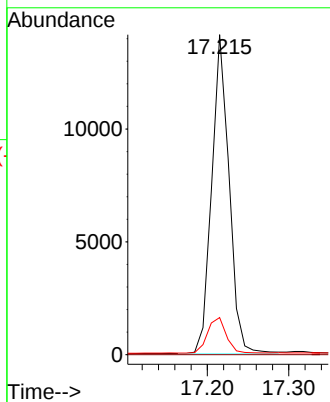
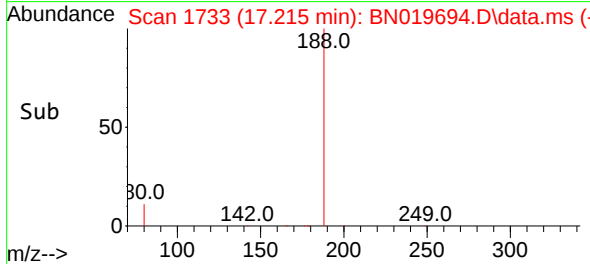
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:188 Resp: 2089
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.6 8.6 12.8

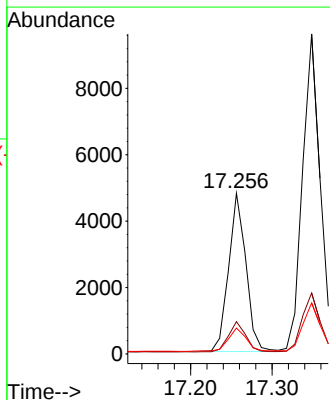
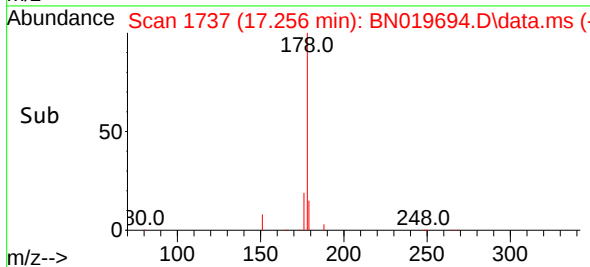
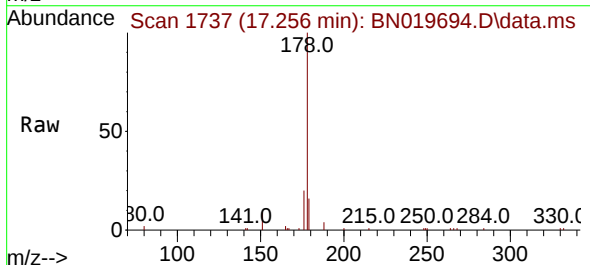
Manual Integrations
APPROVED

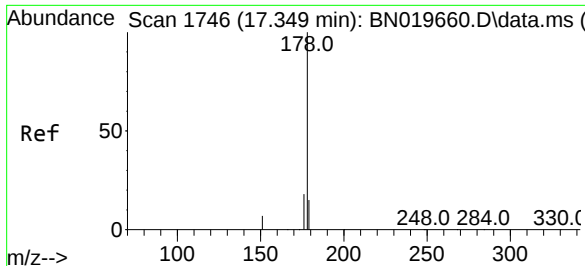
Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022



#25
Phenanthrene
Concen: 0.102 ng
RT: 17.256 min Scan# 1737
Delta R.T. -0.000 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

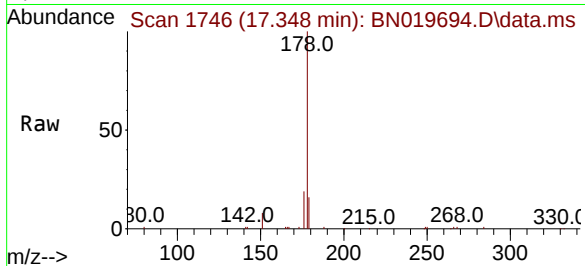
Tgt Ion:178 Resp: 7086
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.6 12.1 18.1





#26
 Anthracene
 Concen: 0.255 ng
 RT: 17.348 min Scan# 1746
 Delta R.T. -0.000 min
 Lab File: BN019694.D
 Acq: 05 May 2022 13:46

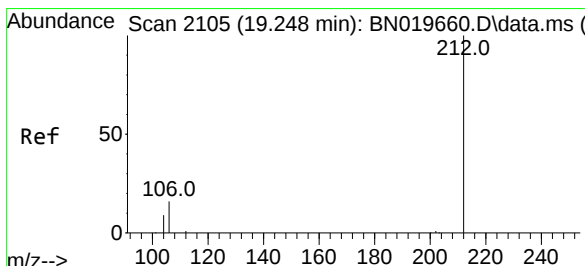
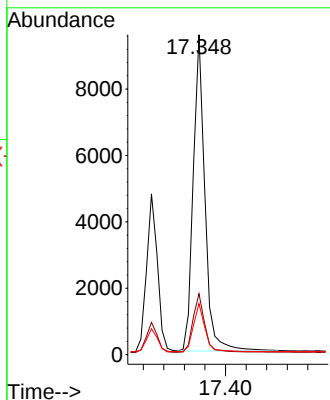
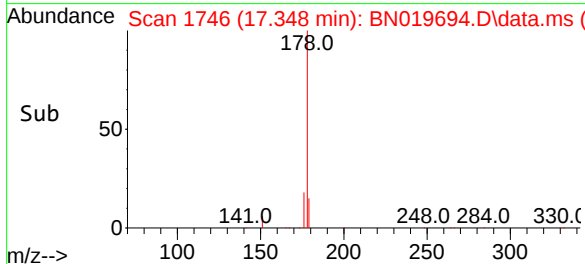
Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL



Tgt Ion:178 Resp: 15019
 Ion Ratio Lower Upper
 178 100
 176 18.3 14.3 21.5
 179 15.1 12.2 18.4

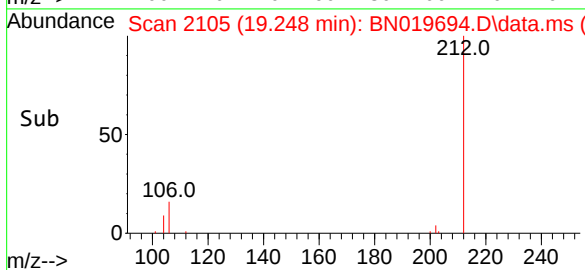
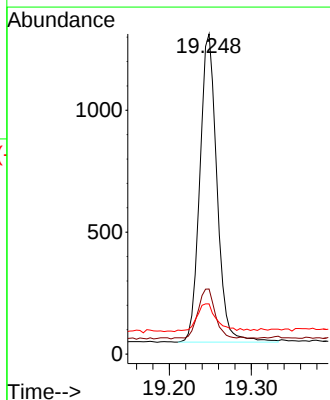
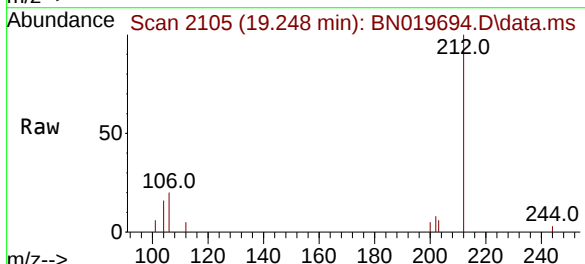
Manual Integrations
 APPROVED

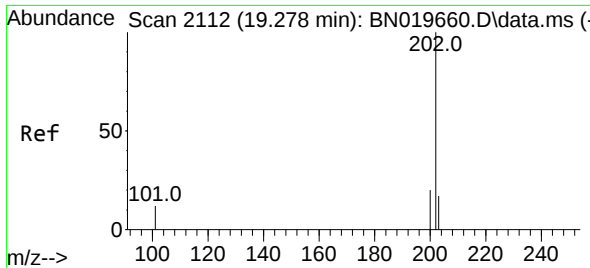
Reviewed By :Christian Giraldo 05/06/2022
 Supervised By :mohammad ahmed 05/09/2022



#27
 Fluoranthene-d10
 Concen: 0.032 ng
 RT: 19.248 min Scan# 2105
 Delta R.T. -0.000 min
 Lab File: BN019694.D
 Acq: 05 May 2022 13:46

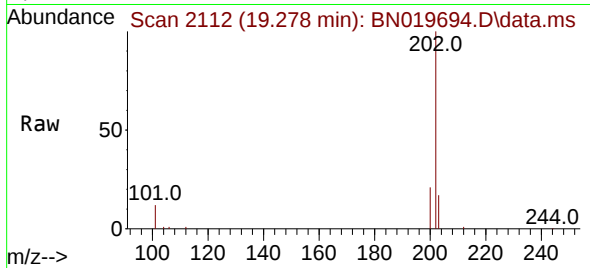
Tgt Ion:212 Resp: 1833
 Ion Ratio Lower Upper
 212 100
 106 16.6 13.5 20.3
 104 10.6 7.6 11.4





#28
Fluoranthene
Concen: 0.222 ng
RT: 19.278 min Scan# 2112
Delta R.T. -0.000 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

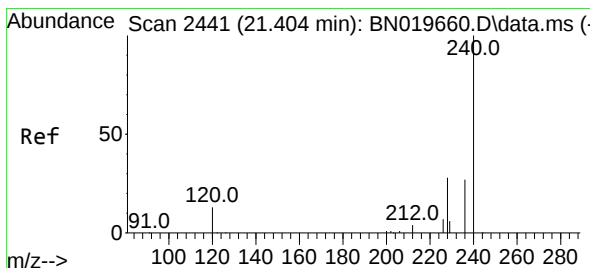
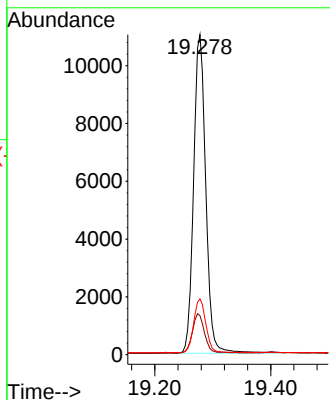
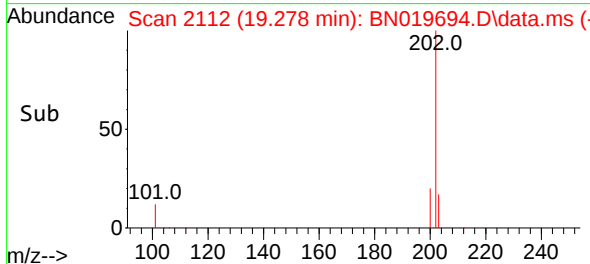
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



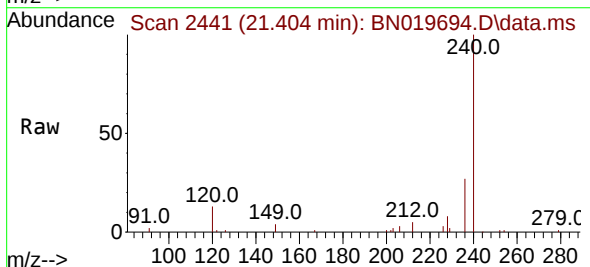
Tgt Ion:202 Resp: 16060
Ion Ratio Lower Upper
202 100
101 12.2 10.6 15.8
203 17.0 13.6 20.4

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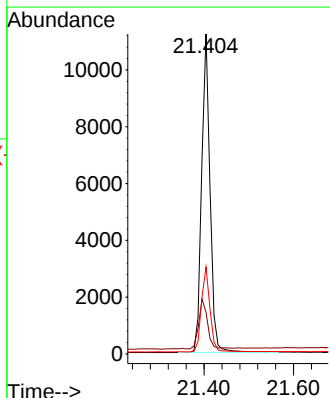
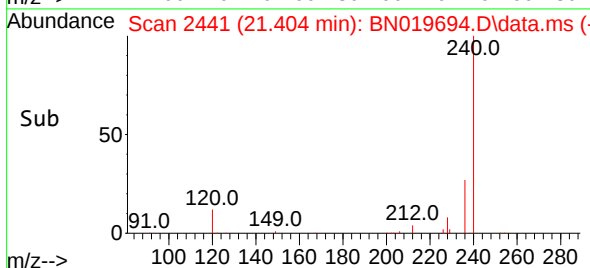
Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022

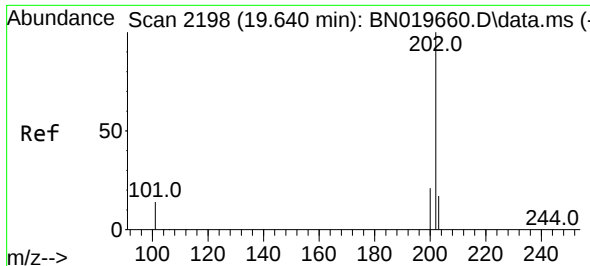


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.404 min Scan# 2441
Delta R.T. -0.000 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46



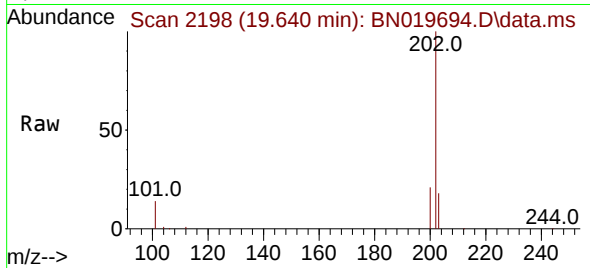
Tgt Ion:240 Resp: 14722
Ion Ratio Lower Upper
240 100
120 13.0 17.4 26.2#
236 27.1 23.0 34.4





#30
Pyrene
Concen: 0.359 ng
RT: 19.640 min Scan# 2198
Delta R.T. -0.000 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

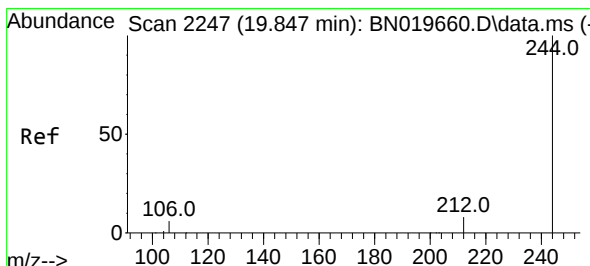
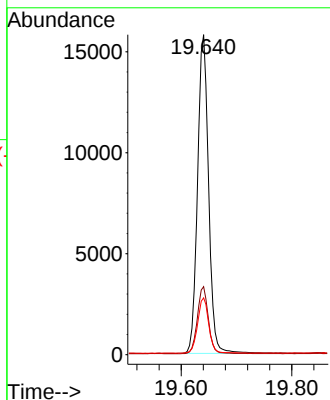
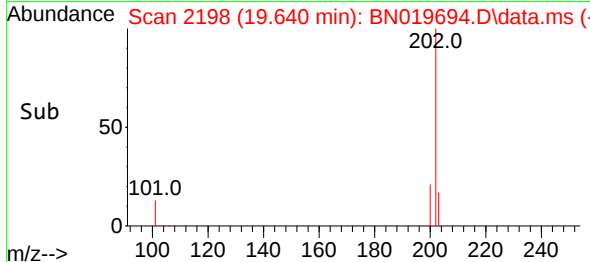
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:202 Resp: 2184
Ion Ratio Lower Upper
202 100
200 20.9 16.7 25.1
203 17.4 14.2 21.4

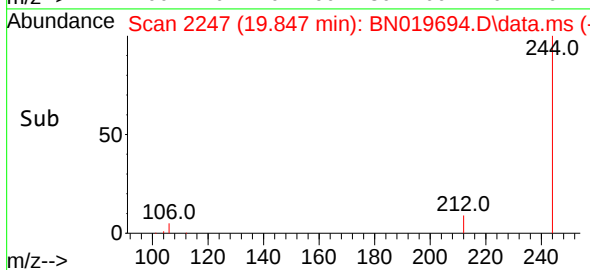
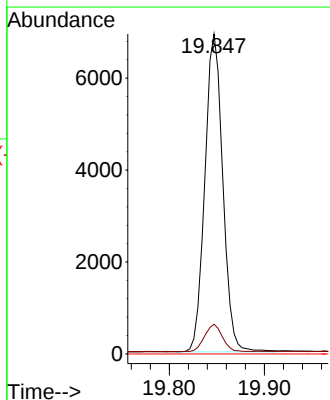
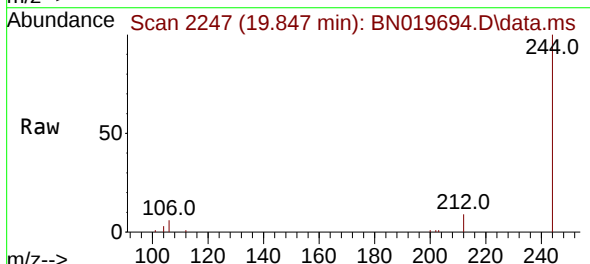
Manual Integrations
APPROVED

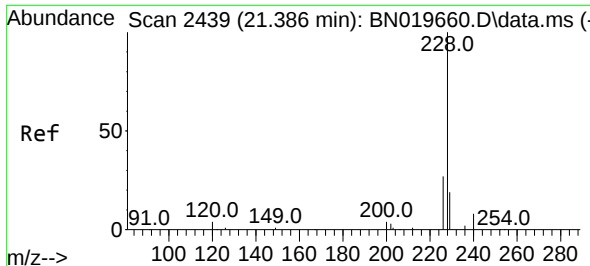
Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022



#31
Terphenyl-d14
Concen: 0.263 ng
RT: 19.847 min Scan# 2247
Delta R.T. -0.000 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

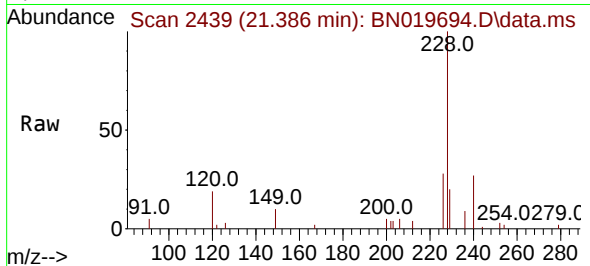
Tgt Ion:244 Resp: 9071
Ion Ratio Lower Upper
244 100
212 9.3 7.6 11.4
122 0.0 0.0 0.0





#32
Benzo(a)anthracene
Concen: 0.122 ng
RT: 21.386 min Scan# 2439
Delta R.T. -0.000 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

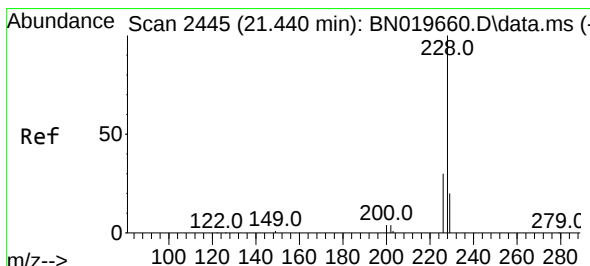
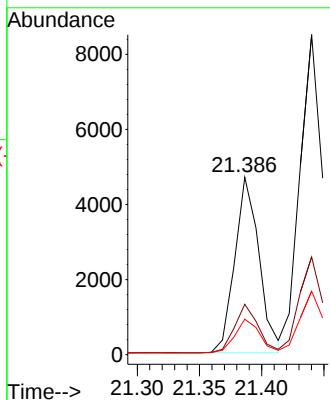
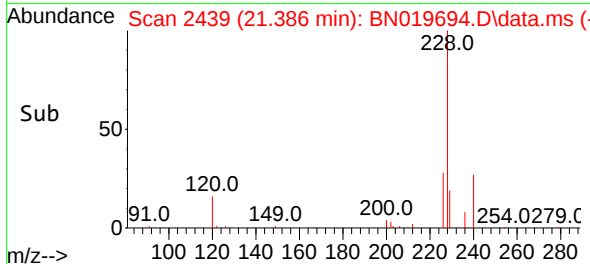
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



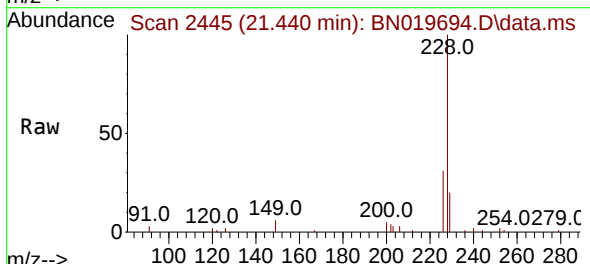
Tgt Ion:228 Resp: 635
Ion Ratio Lower Upper
228 100
226 28.4 21.6 32.4
229 20.0 16.5 24.7

Manual Integrations
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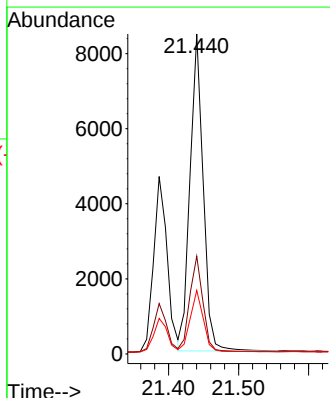
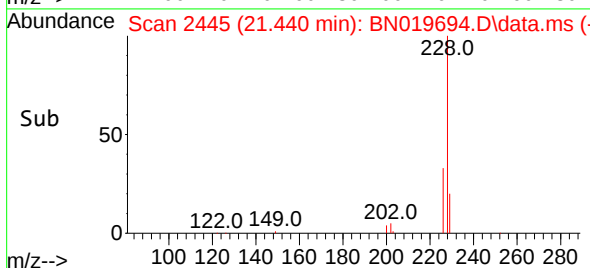
Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022

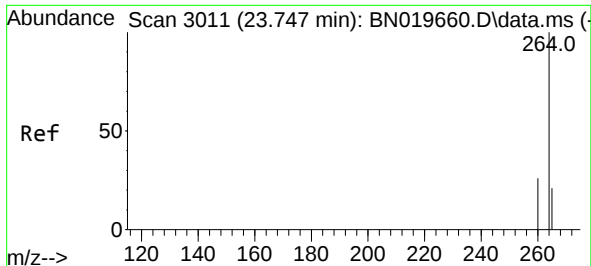


#33
Chrysene
Concen: 0.194 ng
RT: 21.440 min Scan# 2445
Delta R.T. -0.000 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46



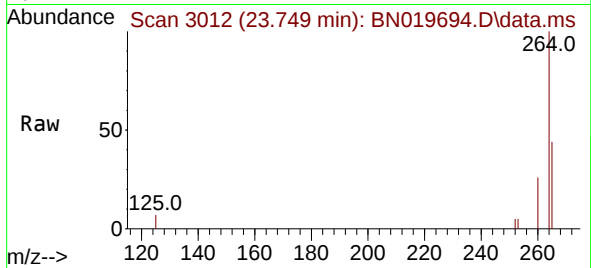
Tgt Ion:228 Resp: 11058
Ion Ratio Lower Upper
228 100
226 30.5 24.6 36.8
229 19.8 15.9 23.9





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.749 min Scan# 3011
Delta R.T. 0.003 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

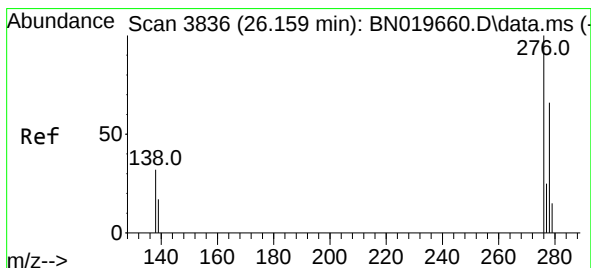
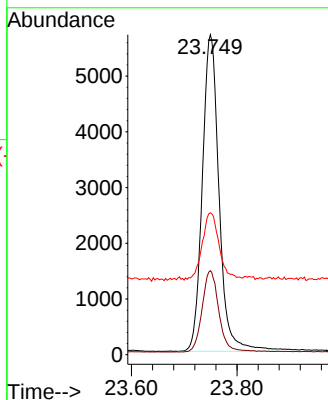
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:264 Resp: 12495
Ion Ratio Lower Upper
264 100
260 26.2 21.0 31.6
265 44.4 67.9 101.9

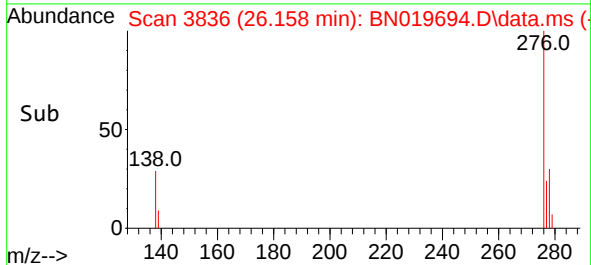
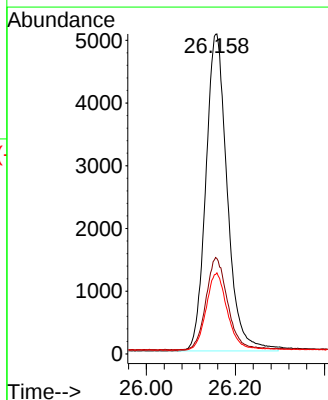
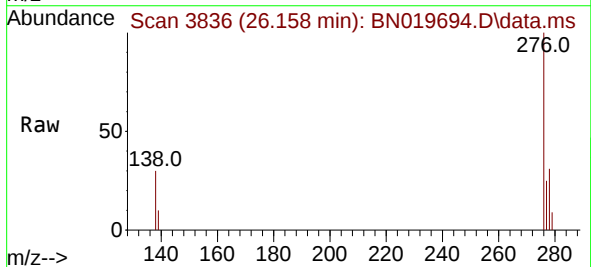
Manual Integrations
APPROVED

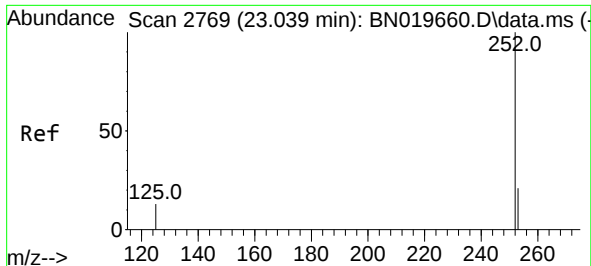
Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.297 ng
RT: 26.158 min Scan# 3836
Delta R.T. -0.000 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

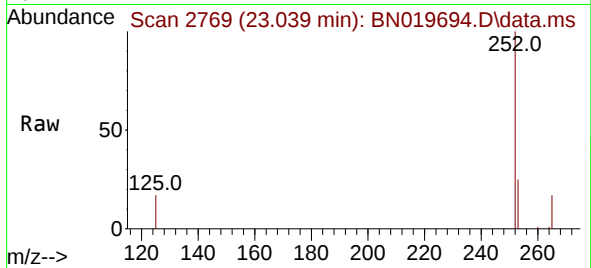
Tgt Ion:276 Resp: 16866
Ion Ratio Lower Upper
276 100
138 29.2 26.6 40.0
277 24.2 20.0 30.0





#37
Benzo(b)fluoranthene
Concen: 0.268 ng
RT: 23.039 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

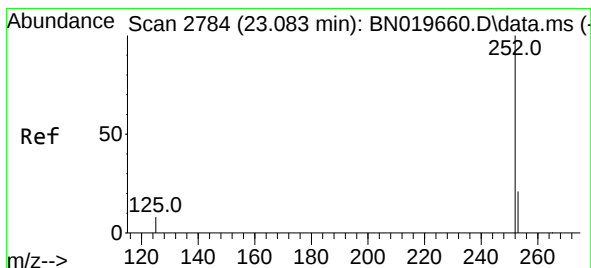
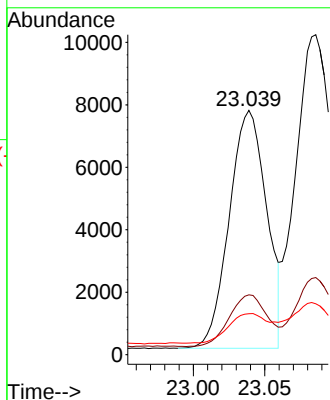
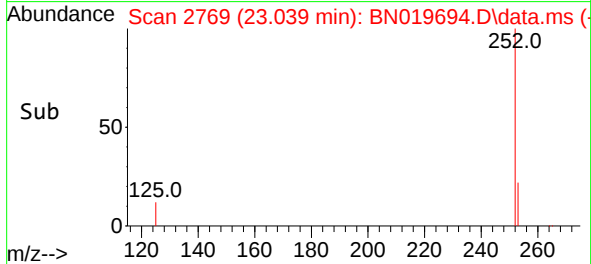
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:252 Resp: 13862
Ion Ratio Lower Upper
252 100
253 24.5 21.2 31.8
125 16.8 15.9 23.9

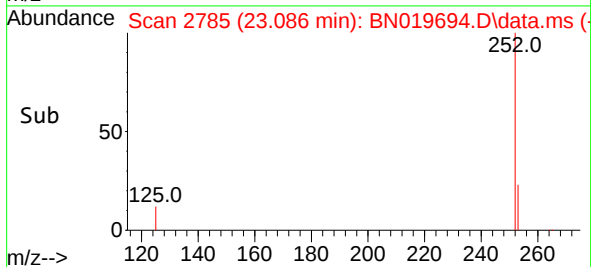
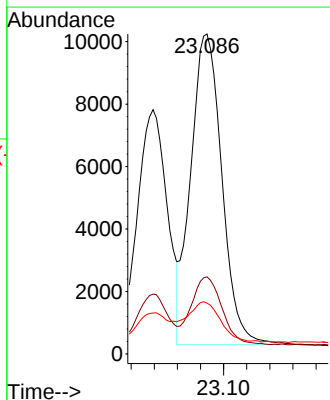
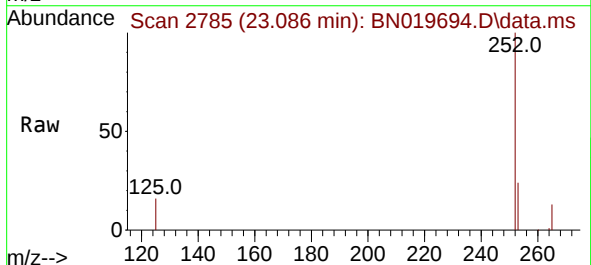
Manual Integrations
APPROVED

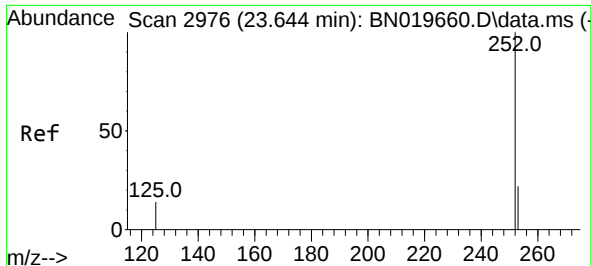
Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022



#38
Benzo(k)fluoranthene
Concen: 0.340 ng m
RT: 23.086 min Scan# 2785
Delta R.T. 0.003 min
Lab File: BN019694.D
Acq: 05 May 2022 13:46

Tgt Ion:252 Resp: 18608
Ion Ratio Lower Upper
252 100
253 24.1 21.7 32.5
125 15.9 17.0 25.4#





#39

Benzo(a)pyrene

Concen: 0.092 ng

RT: 23.641 min Scan# 2976

Delta R.T. -0.003 min

Lab File: BN019694.D

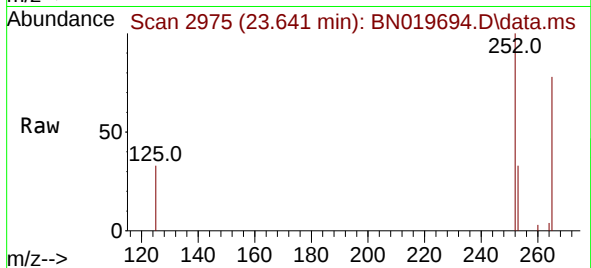
Acq: 05 May 2022 13:46

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

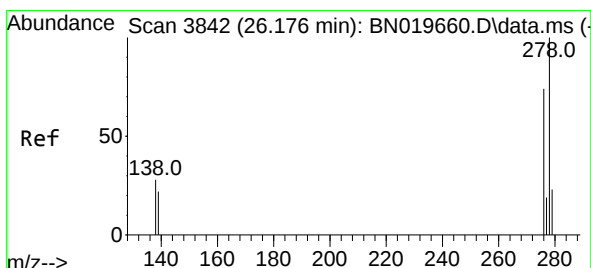
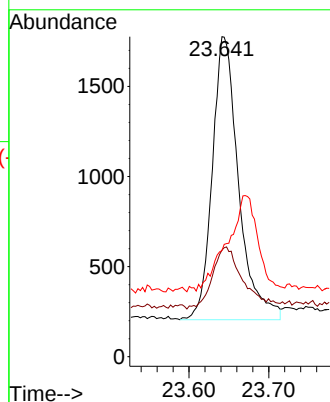


Tgt Ion:	252	Resp:	3600
Ion Ratio	Lower	Upper	
252	100		
253	33.3	23.1	34.7
125	33.2	20.4	30.6

Manual Integrations

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Reviewed By :Christian Giraldo 05/06/2022
Supervised By :mohammad ahmed 05/09/2022



#40

Dibenzo(a,h)anthracene

Concen: 0.145 ng

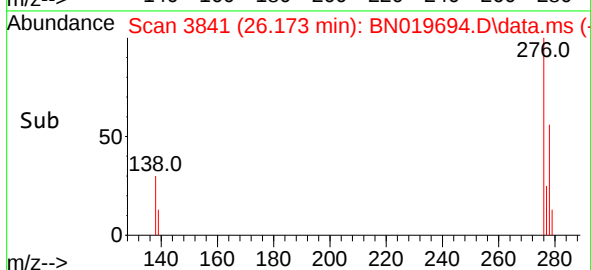
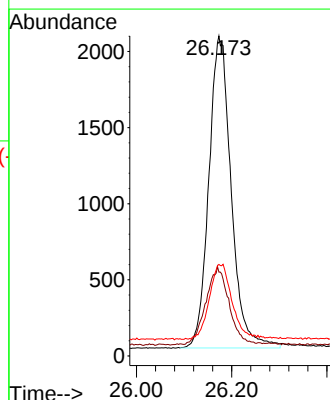
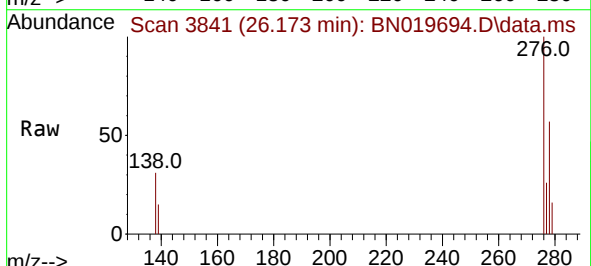
RT: 26.173 min Scan# 3841

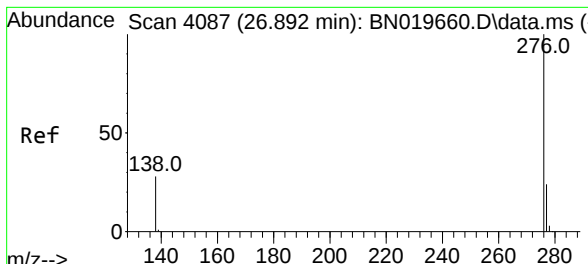
Delta R.T. -0.003 min

Lab File: BN019694.D

Acq: 05 May 2022 13:46

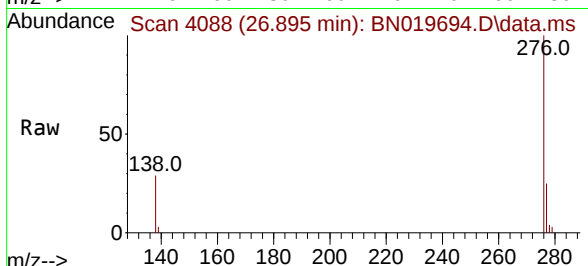
Tgt Ion:	278	Resp:	6688
Ion Ratio	Lower	Upper	
278	100		
139	26.2	19.4	29.2
279	28.6	21.8	32.8





#41
 Benzo(g,h,i)perylene
 Concen: 0.343 ng
 RT: 26.895 min Scan# 4088
 Delta R.T. 0.003 min
 Lab File: BN019694.D
 Acq: 05 May 2022 13:46

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL



Tgt Ion:	276	Resp:	1572
Ion Ratio	Lower	Upper	
276	100		
277	24.6	20.2	30.2
138	29.1	23.5	35.3

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 05/06/2022
 Supervised By :mohammad ahmed 05/09/2022

