

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100722\
 Data File : BN022033.D
 Acq On : 07 Oct 2022 11:32
 Operator : CG/JU
 Sample : N4785-21DL 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 10/10/2022
 Supervised By : Jagrut Upadhyay 10/10/2022

Quant Time: Oct 10 03:15:16 2022
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\8270-SIM-BN100322.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 04 01:32:21 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.985	152	4279	0.400	ng	0.00
7) Naphthalene-d8	10.805	136	13200	0.400	ng	#-0.01
13) Acenaphthene-d10	14.653	164	6971	0.400	ng	0.00
19) Phenanthrene-d10	17.400	188	13999	0.400	ng	#-0.01
29) Chrysene-d12	21.609	240	9859	0.400	ng	0.00
35) Perylene-d12	24.093	264	6903	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.508	112	842	0.085	ng	0.00
5) Phenol-d6	7.148	99	1054	0.082	ng	0.00
8) Nitrobenzene-d5	9.172	82	518m	0.049	ng	0.01
11) 2-Methylnaphthalene-d10	12.406	152	1242	0.051	ng	0.00
14) 2,4,6-Tribromophenol	16.158	330	192	0.072	ng	0.01
15) 2-Fluorobiphenyl	13.285	172	1575	0.052	ng	0.00
27) Fluoranthene-d10	19.445	212	2380	0.064	ng	0.00
31) Terphenyl-d14	20.041	244	1316	0.066	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.859	128	44718	1.122	ng	99
16) Acenaphthylene	14.364	152	54324	1.638	ng	100
17) Acenaphthene	14.707	154	10856	0.466	ng	99
18) Fluorene	15.701	166	23958	0.852	ng	100
25) Phenanthrene	17.449	178	24397	0.507	ng	100
26) Anthracene	17.536	178	10342	0.268	ng	100
28) Fluoranthene	19.474	202	24072	0.467	ng	100
30) Pyrene	19.837	202	13216	0.305	ng	100
33) Chrysene	21.645	228	10361	0.252	ng	99
36) Indeno(1,2,3-cd)pyrene	26.695	276	21150	0.606	ng	99
37) Benzo(b)fluoranthene	23.327	252	16894	0.516	ng	99
38) Benzo(k)fluoranthene	23.377	252	16753	0.514	ng	97
39) Benzo(a)pyrene	23.982	252	18541	0.743	ng	91
40) Dibenzo(a,h)anthracene	26.715	278	18274	0.657	ng	99
41) Benzo(g,h,i)perylene	27.496	276	19071	0.635	ng	98

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

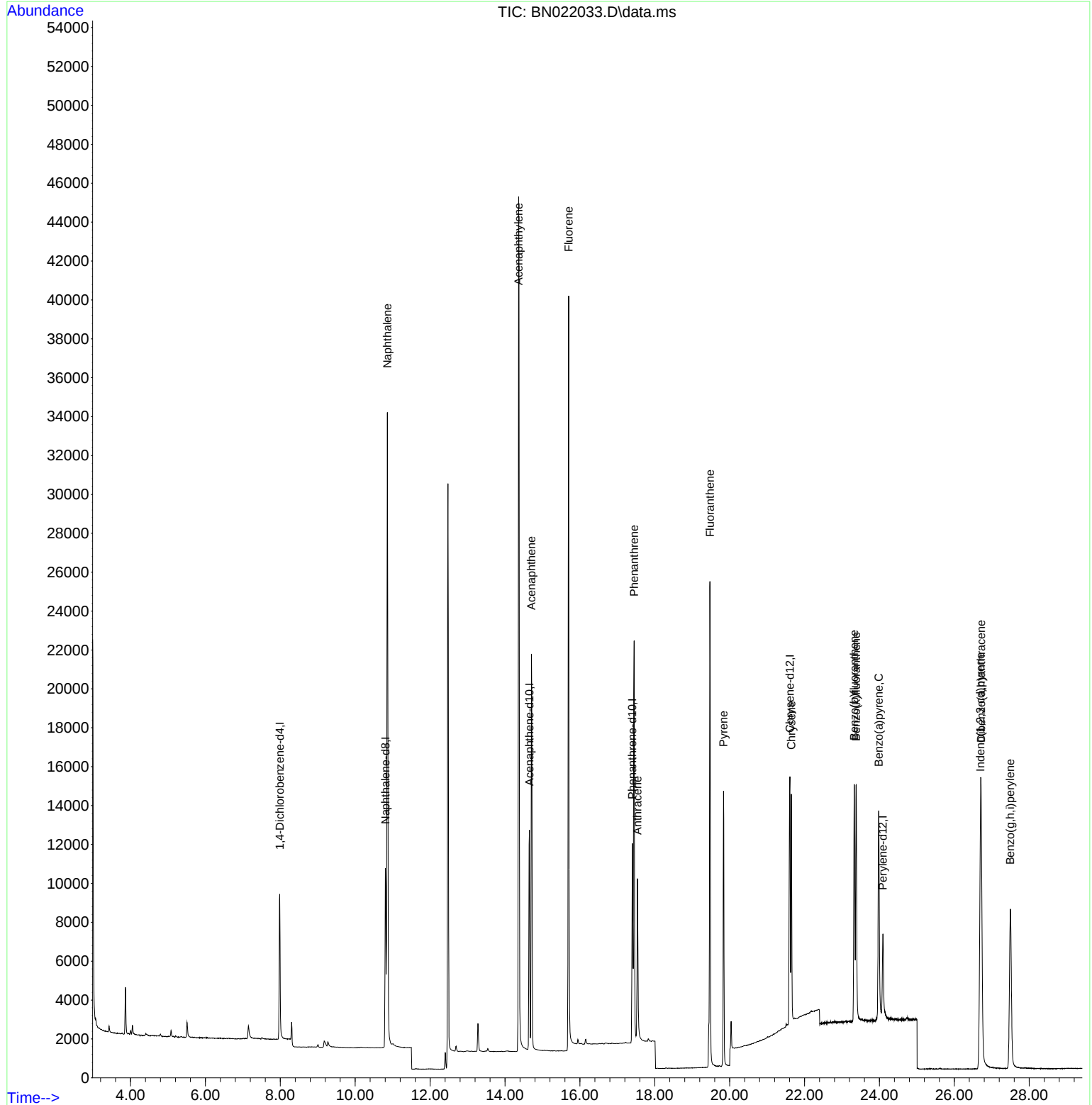
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN100722\
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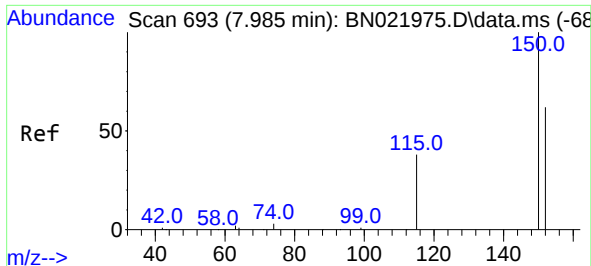
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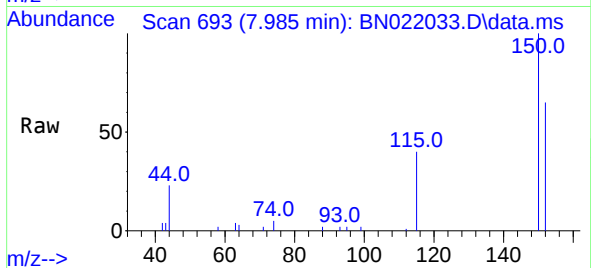
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.985 min Scan# 693
Delta R.T. 0.000 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

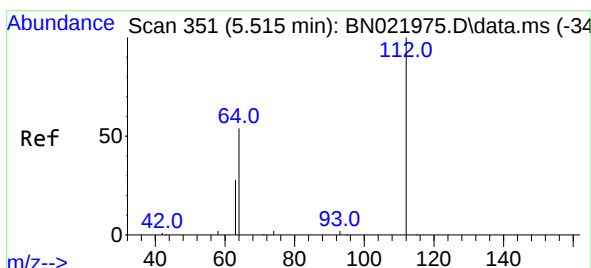
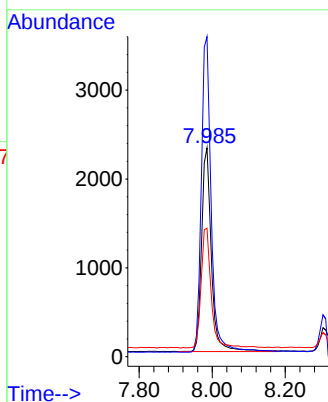
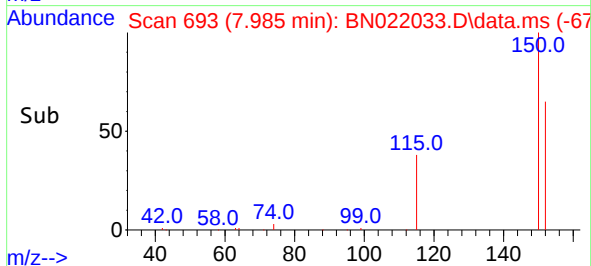


Tgt Ion:152 Resp: 4279
Ion Ratio Lower Upper
152 100
150 153.2 127.2 190.8
115 61.5 51.4 77.0

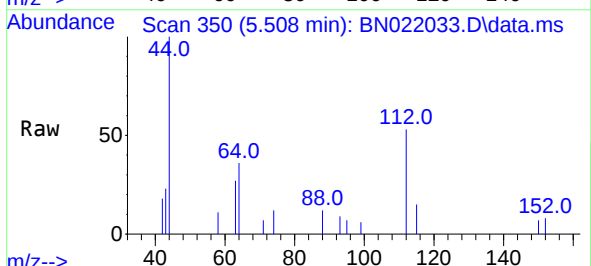
Manual Integrations

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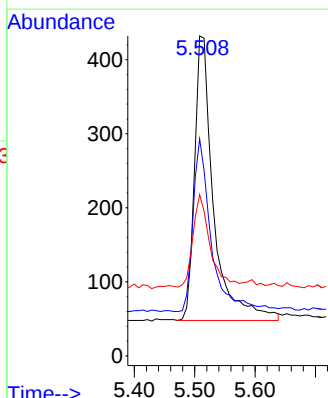
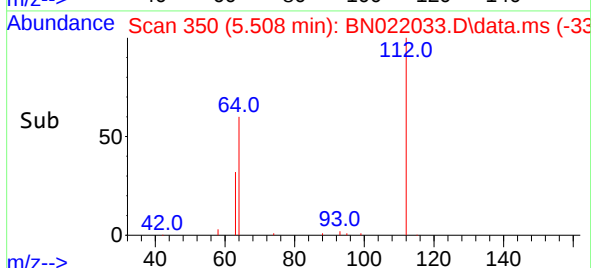
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022

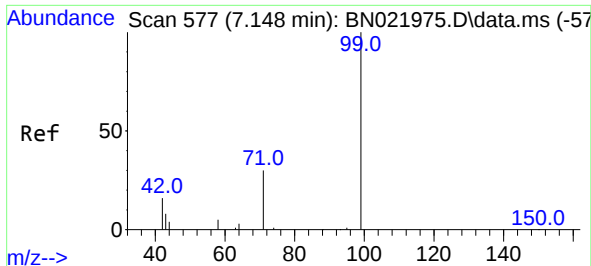


#4
2-Fluorophenol
Concen: 0.085 ng
RT: 5.508 min Scan# 350
Delta R.T. -0.007 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32



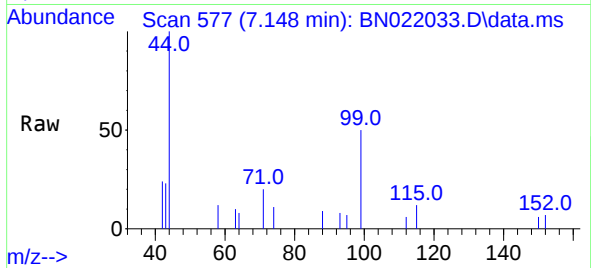
Tgt Ion:112 Resp: 842
Ion Ratio Lower Upper
112 100
64 58.7 46.9 70.3
63 29.2 24.6 37.0





#5
Phenol-d6
Concen: 0.082 ng
RT: 7.148 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32

Instrument :
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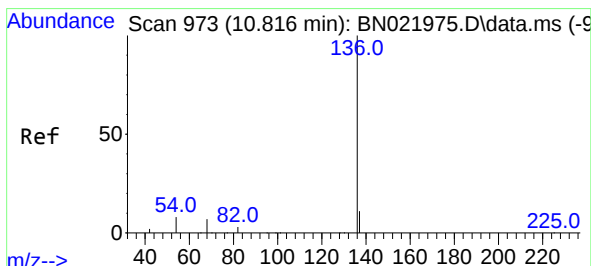
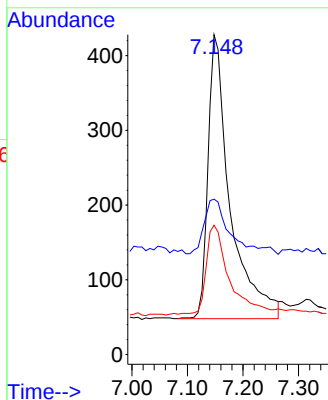
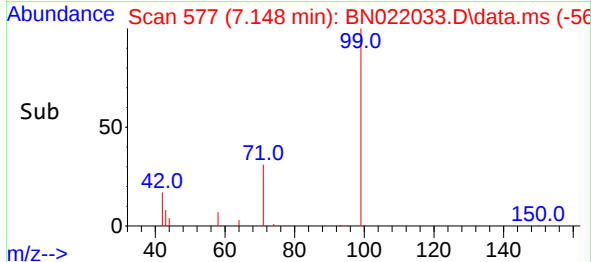


Tgt Ion: 99 Resp: 1054

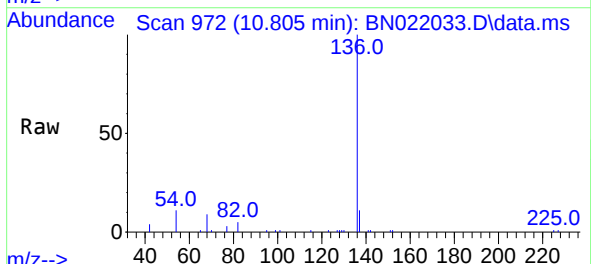
Ion	Ratio	Lower	Upper
99	100		
42	22.8	15.9	23.9
71	33.4	25.6	38.4

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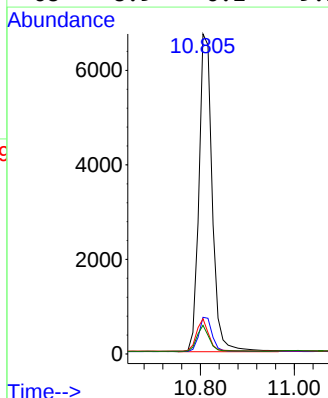
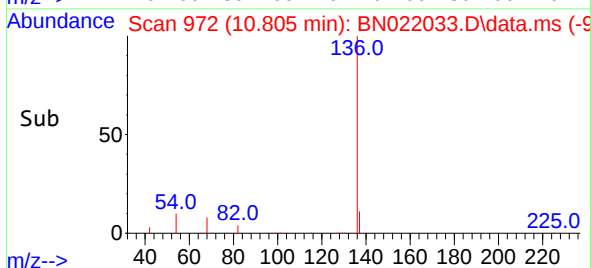


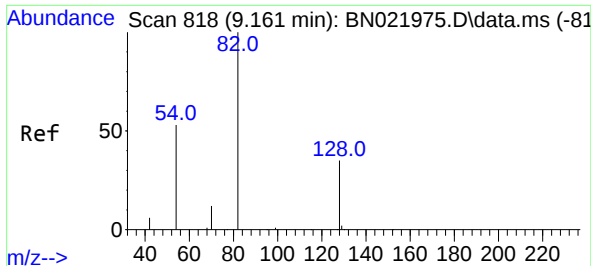
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.805 min Scan# 972
Delta R.T. -0.011 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32



Tgt Ion:136 Resp: 13200

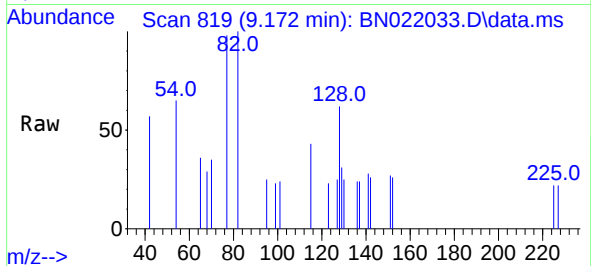
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.2	13.8
54	11.0	7.1	10.7#
68	8.9	6.2	9.2





#8
Nitrobenzene-d5
Concen: 0.049 ng m
RT: 9.172 min Scan# 818
Delta R.T. 0.011 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32

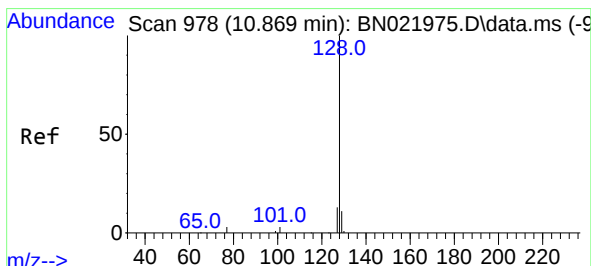
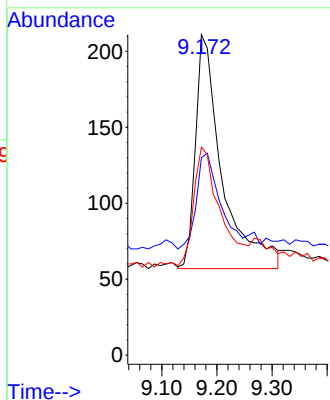
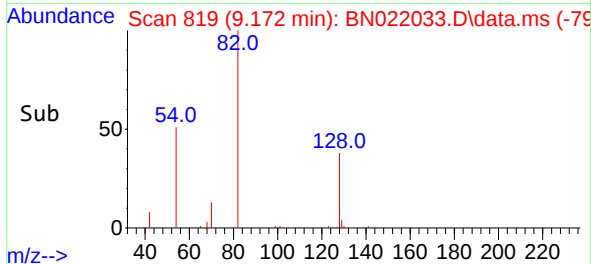
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion: 82 Resp: 518
Ion Ratio Lower Upper
82 100
128 61.6 29.9 44.9
54 64.9 43.5 65.3

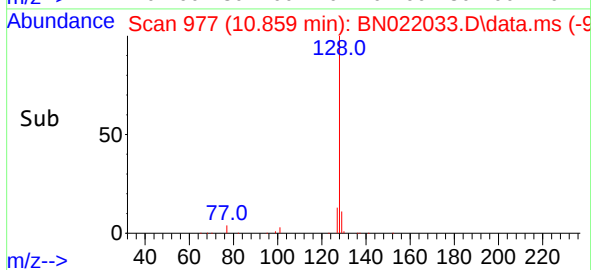
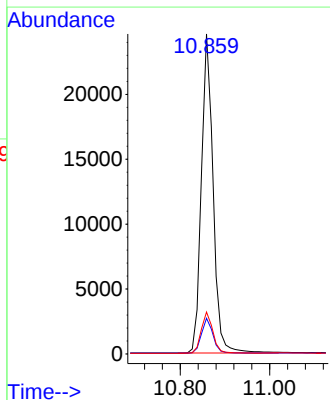
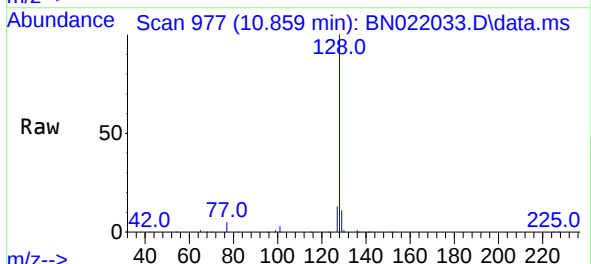
Manual Integrations
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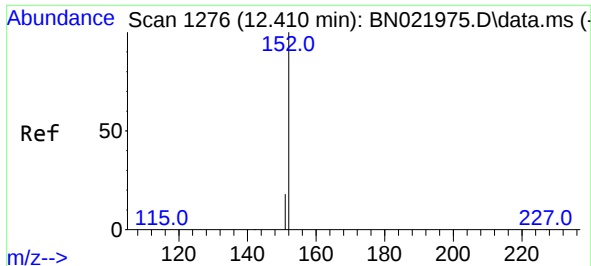
Reviewed By :Christian Giraldo 10/10/2022
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#9
Naphthalene
Concen: 1.122 ng
RT: 10.859 min Scan# 977
Delta R.T. -0.011 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32

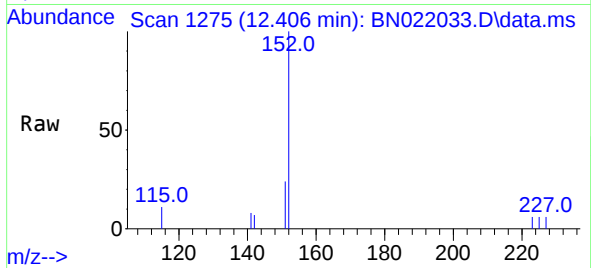
Tgt Ion:128 Resp: 44718
Ion Ratio Lower Upper
128 100
129 11.2 9.3 13.9
127 13.1 10.6 16.0





#11
2-Methylnaphthalene-d10
Concen: 0.051 ng
RT: 12.406 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32

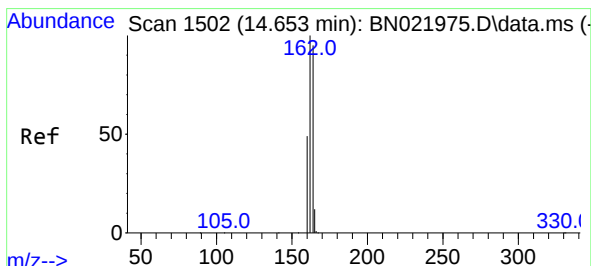
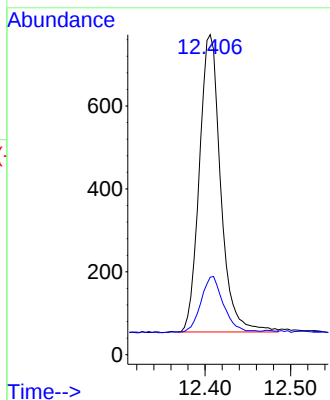
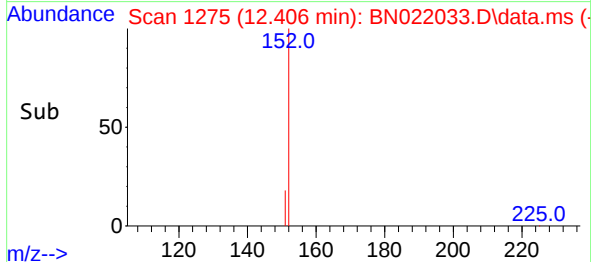
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



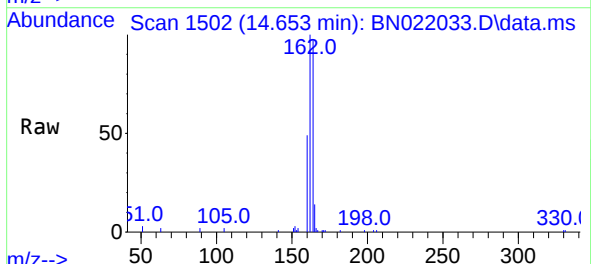
Tgt Ion:152 Resp: 124
Ion Ratio Lower Upper
152 100
151 20.0 13.8 20.6

Manual Integrations
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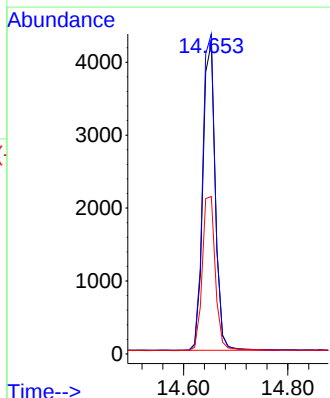
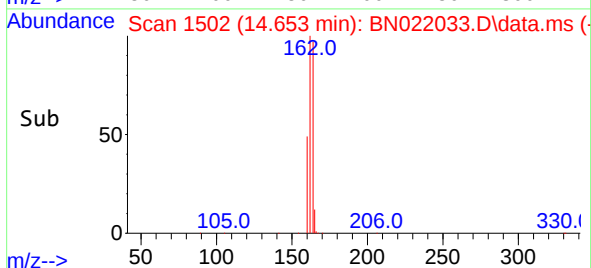
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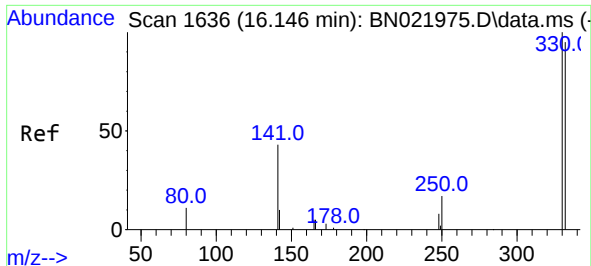


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.653 min Scan# 1502
Delta R.T. 0.000 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32



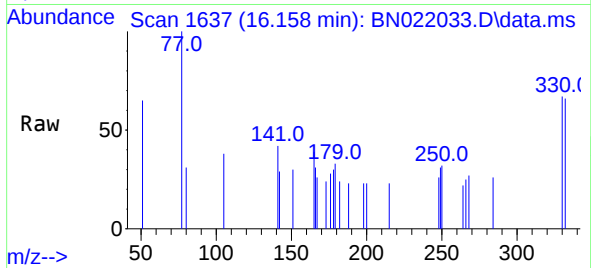
Tgt Ion:164 Resp: 6971
Ion Ratio Lower Upper
164 100
162 102.8 84.3 126.5
160 50.6 41.7 62.5





#14
2,4,6-Tribromophenol
Concen: 0.072 ng
RT: 16.158 min Scan# 1637
Delta R.T. 0.012 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32

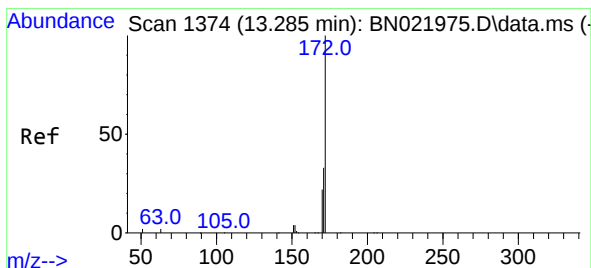
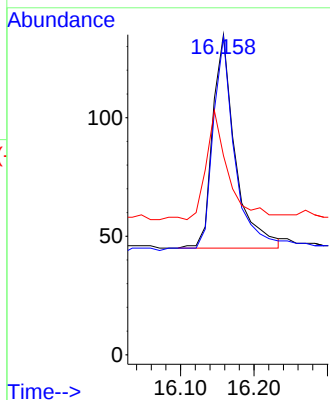
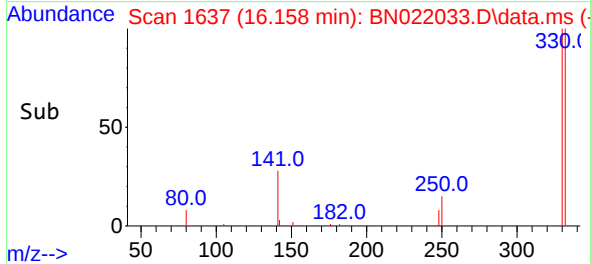
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



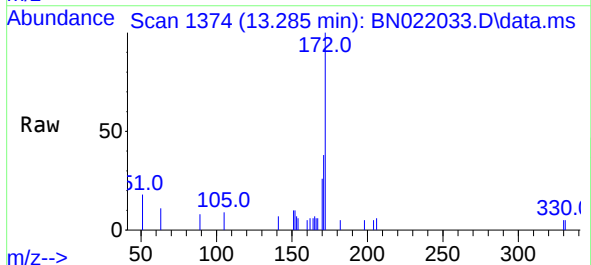
Tgt Ion:330 Resp: 192
Ion Ratio Lower Upper
330 100
332 97.9 77.0 115.4
141 51.0 35.3 52.9

Manual Integrations
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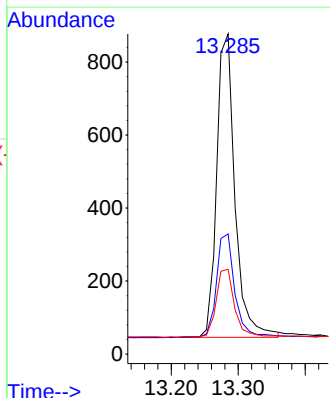
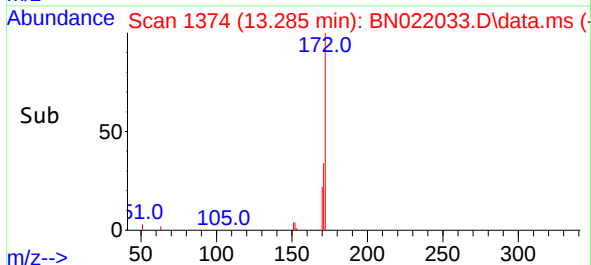
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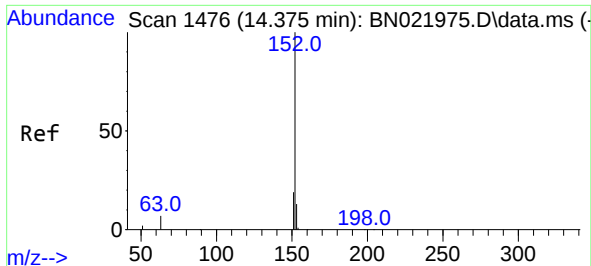


#15
2-Fluorobiphenyl
Concen: 0.052 ng
RT: 13.285 min Scan# 1374
Delta R.T. 0.000 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32



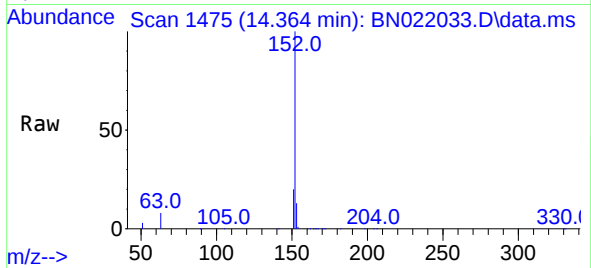
Tgt Ion:172 Resp: 1575
Ion Ratio Lower Upper
172 100
171 37.5 27.2 40.8
170 26.5 18.3 27.5





#16
Acenaphthylene
Concen: 1.638 ng
RT: 14.364 min Scan# 1476
Delta R.T. -0.011 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32

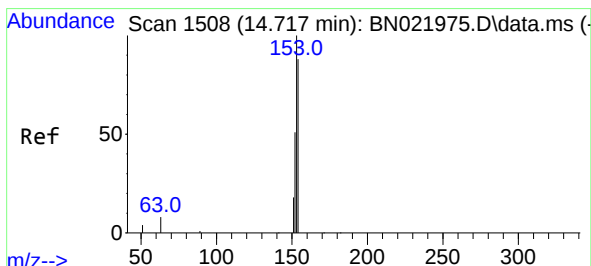
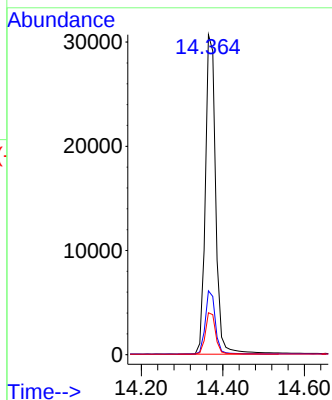
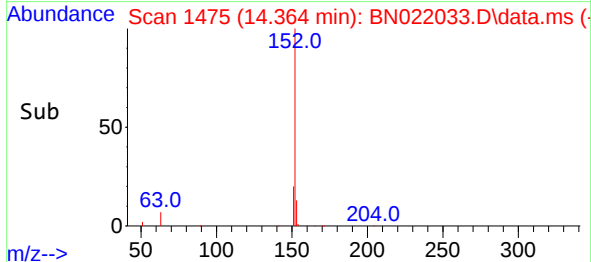
Instrument :
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ClientSampleId :
RR-PAH-WPDL



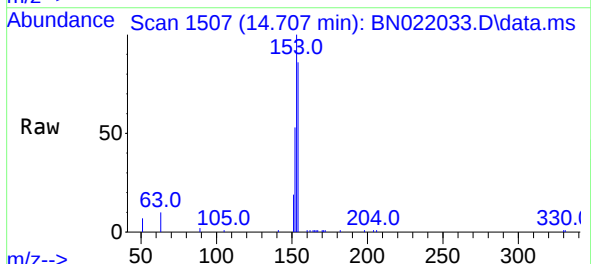
Tgt Ion:152 Resp: 54324
Ion Ratio Lower Upper
152 100
151 19.5 15.5 23.3
153 12.9 10.4 15.6

Manual Integrations
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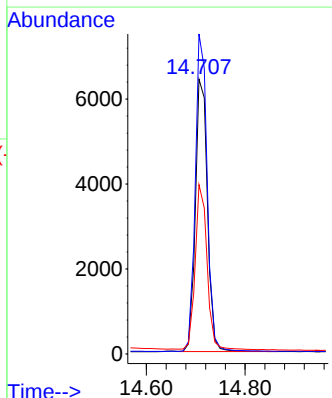
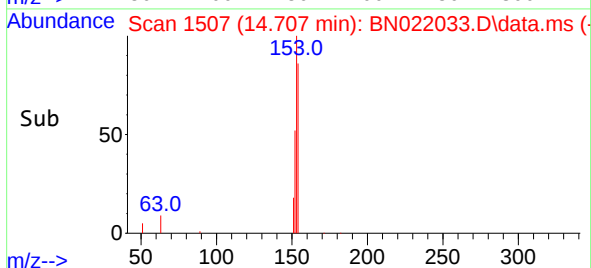
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022

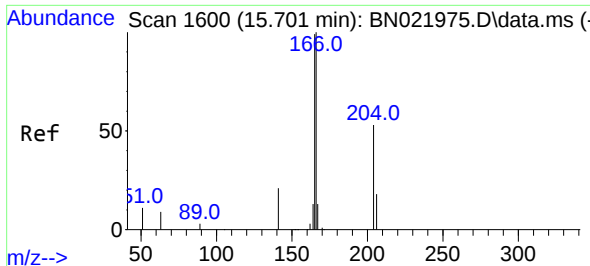


#17
Acenaphthene
Concen: 0.466 ng
RT: 14.707 min Scan# 1507
Delta R.T. -0.011 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32



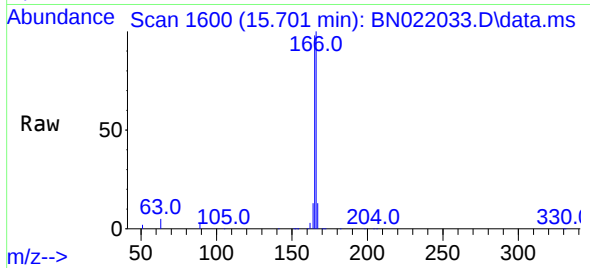
Tgt Ion:154 Resp: 10856
Ion Ratio Lower Upper
154 100
153 114.6 92.1 138.1
152 60.2 47.8 71.6





#18
Fluorene
Concen: 0.852 ng
RT: 15.701 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32

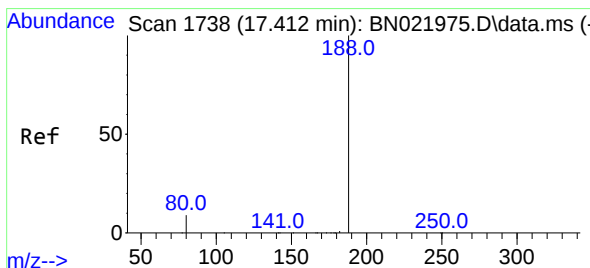
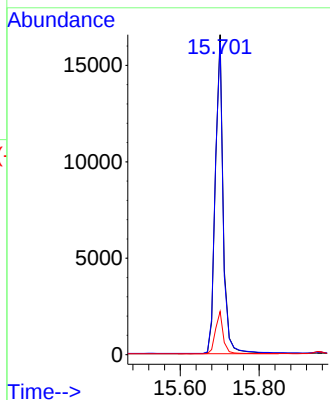
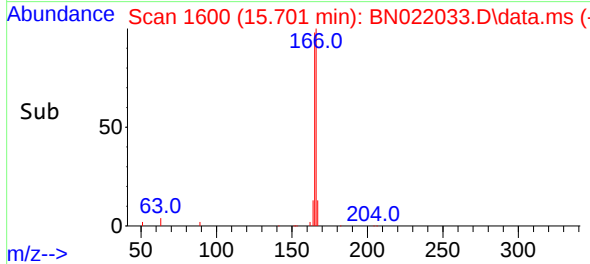
Instrument :
BNA_N
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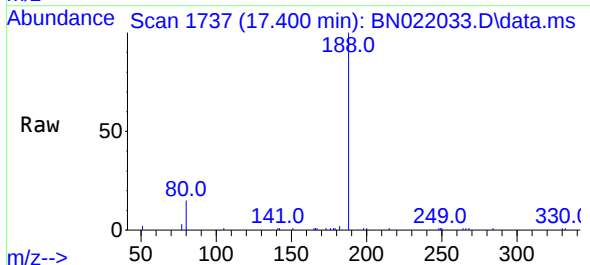
Tgt Ion:166 Resp: 23958
Ion Ratio Lower Upper
166 100
165 100.4 80.0 120.0
167 13.3 10.9 16.3

Manual Integrations
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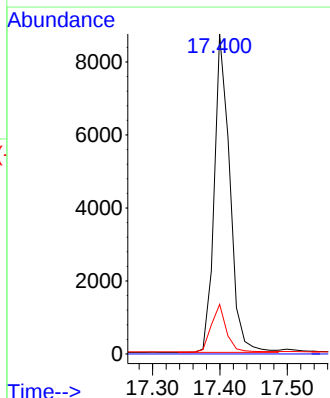
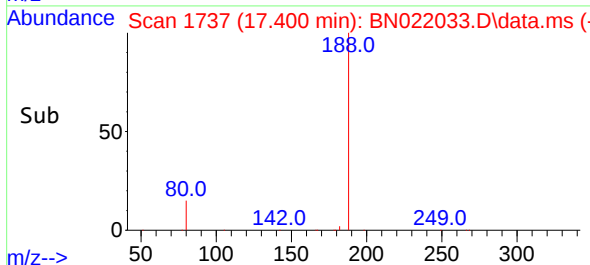
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022

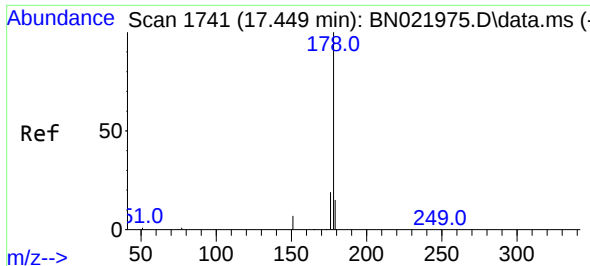


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.400 min Scan# 1737
Delta R.T. -0.012 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32



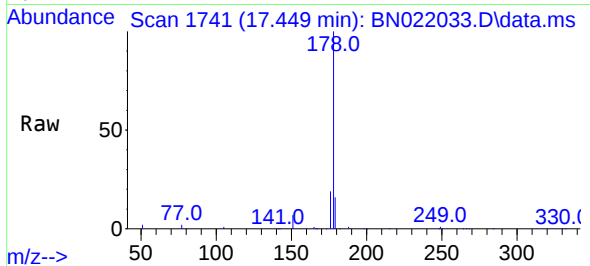
Tgt Ion:188 Resp: 13999
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 15.5 7.5 11.3#





#25
Phenanthrene
Concen: 0.507 ng
RT: 17.449 min Scan# 1741
Delta R.T. 0.000 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32

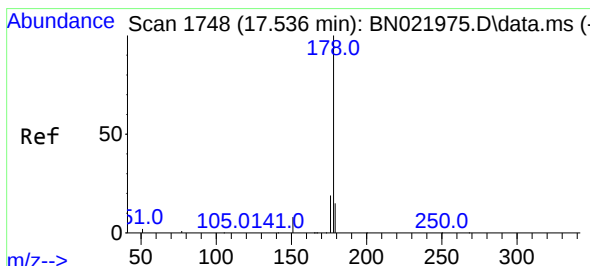
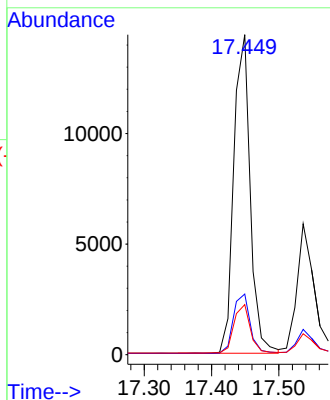
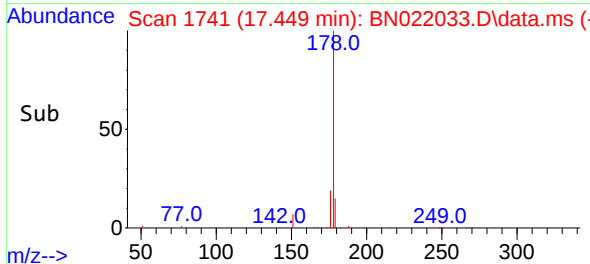
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



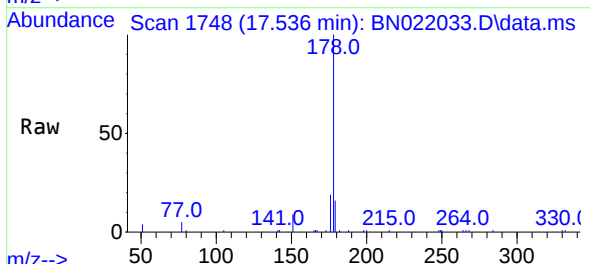
Tgt Ion:178 Resp: 2439
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.0
179 15.4 12.2 18.2

Manual Integrations
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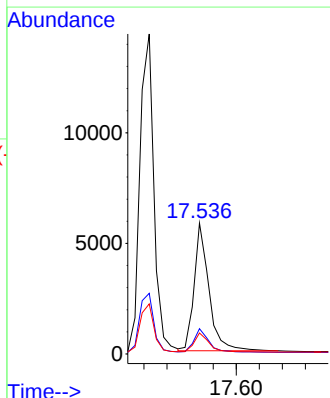
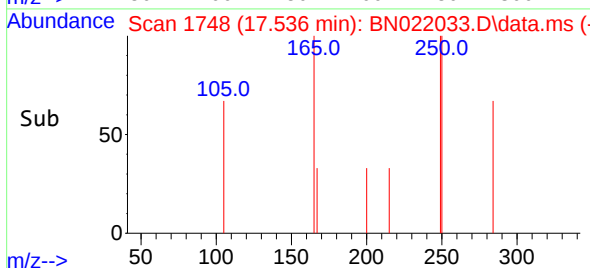
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022

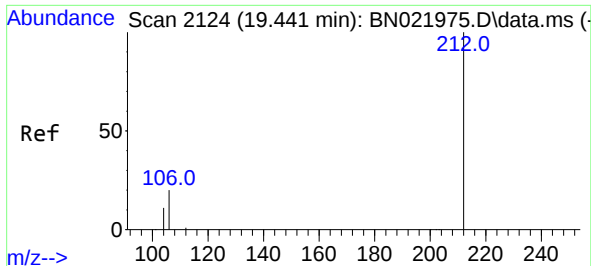


#26
Anthracene
Concen: 0.268 ng
RT: 17.536 min Scan# 1748
Delta R.T. 0.000 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32



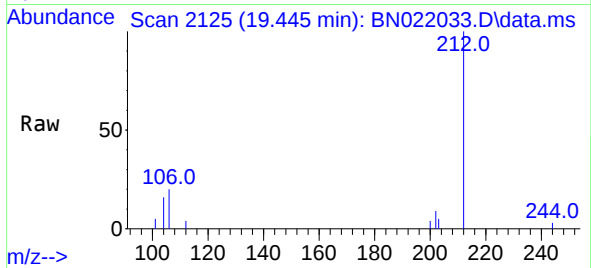
Tgt Ion:178 Resp: 10342
Ion Ratio Lower Upper
178 100
176 18.7 14.8 22.2
179 15.0 12.2 18.2





#27
Fluoranthene-d10
Concen: 0.064 ng
RT: 19.445 min Scan# 2124
Delta R.T. 0.004 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32

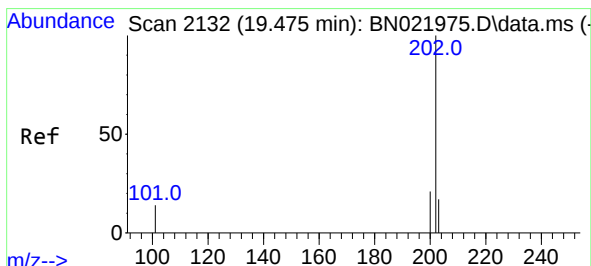
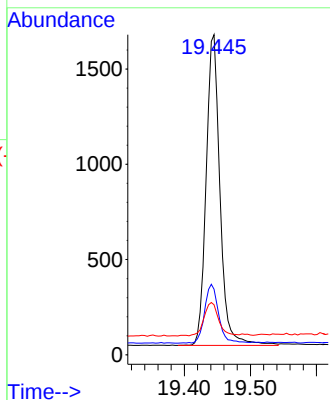
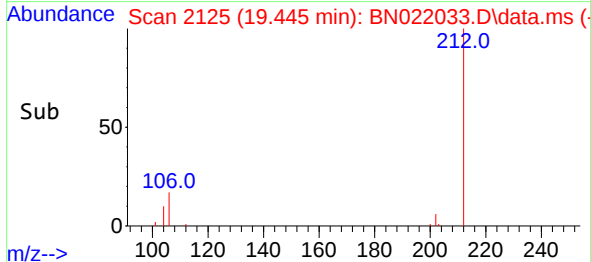
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



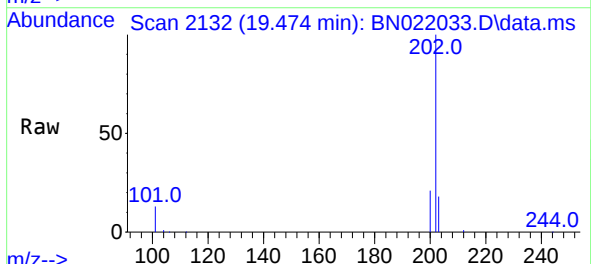
Tgt Ion:212 Resp: 2380
Ion Ratio Lower Upper
212 100
106 19.1 15.2 22.8
104 11.1 8.6 13.0

Manual Integrations
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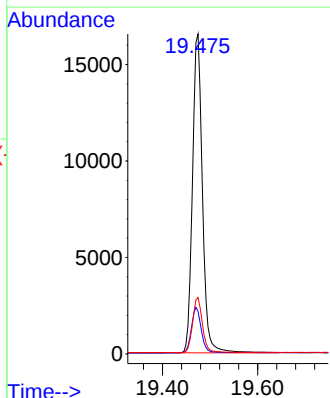
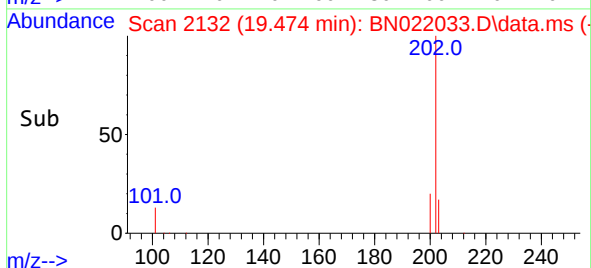
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022

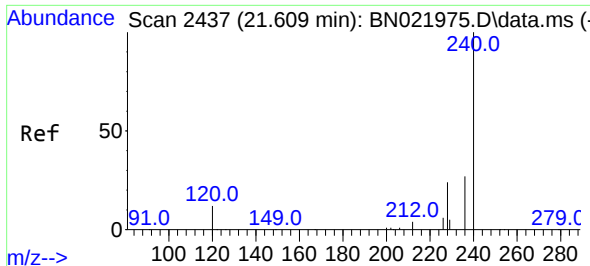


#28
Fluoranthene
Concen: 0.467 ng
RT: 19.474 min Scan# 2132
Delta R.T. -0.000 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32



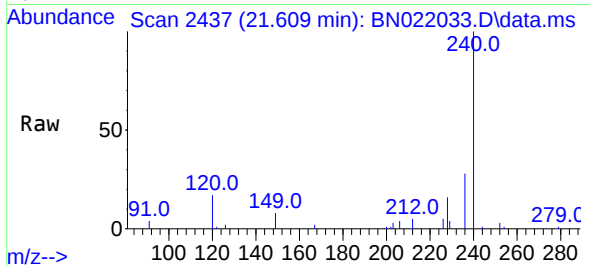
Tgt Ion:202 Resp: 24072
Ion Ratio Lower Upper
202 100
101 14.0 11.4 17.0
203 17.1 13.5 20.3





#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.609 min Scan# 2437
Delta R.T. 0.000 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32

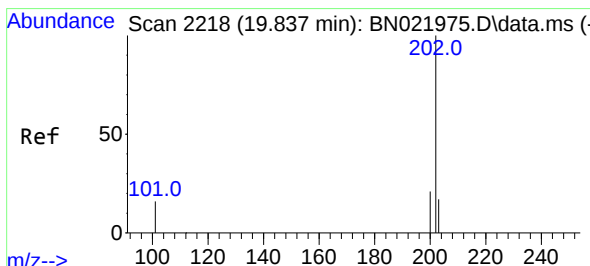
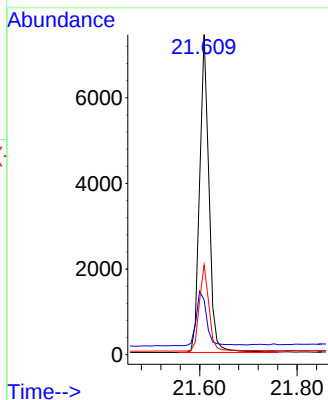
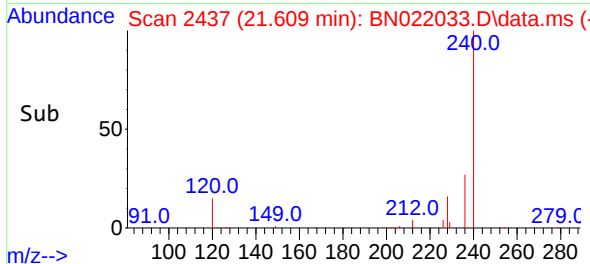
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



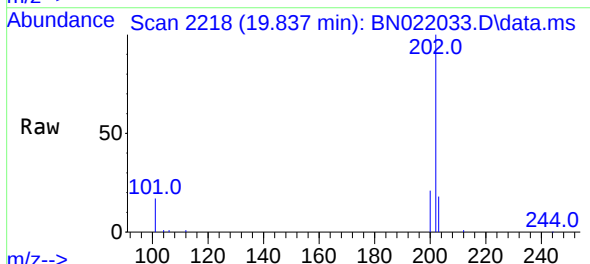
Tgt Ion:240 Resp: 9859
Ion Ratio Lower Upper
240 100
120 17.1 11.8 17.6
236 28.0 22.4 33.6

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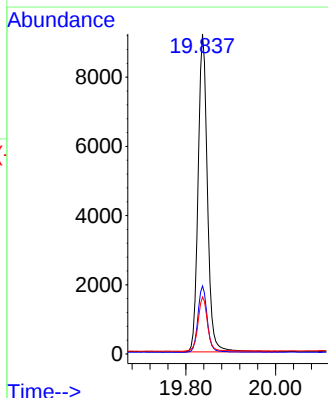
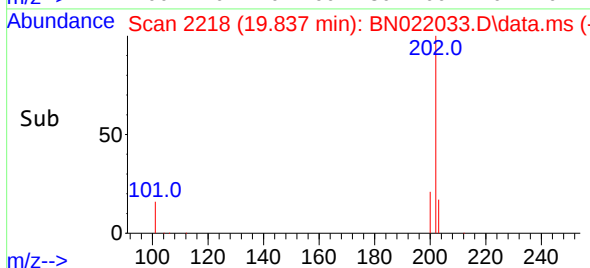
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022

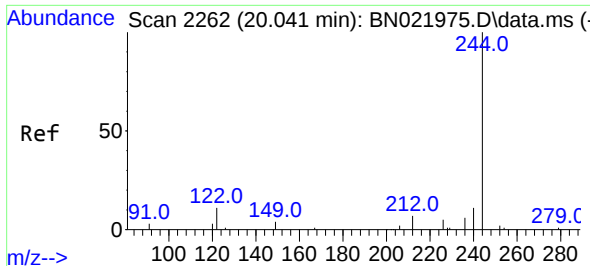


#30
Pyrene
Concen: 0.305 ng
RT: 19.837 min Scan# 2218
Delta R.T. -0.000 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32



Tgt Ion:202 Resp: 13216
Ion Ratio Lower Upper
202 100
200 20.8 16.6 25.0
203 17.5 14.1 21.1





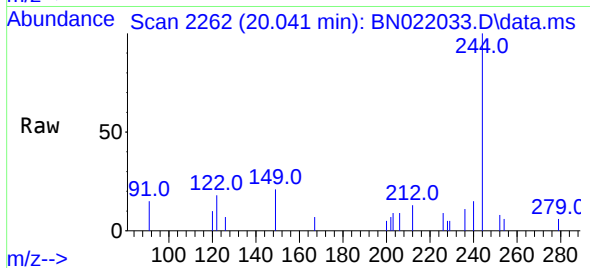
#31
 Terphenyl-d14
 Concen: 0.066 ng
 RT: 20.041 min Scan# 2262
 Delta R.T. 0.000 min
 Lab File: BN022033.D
 Acq: 07 Oct 2022 11:32

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

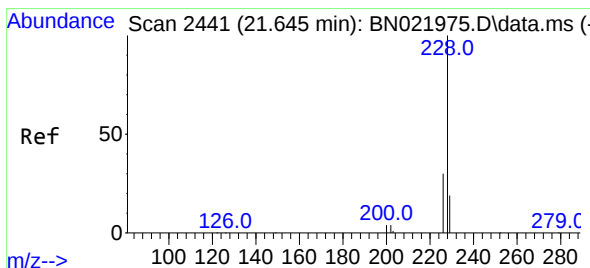
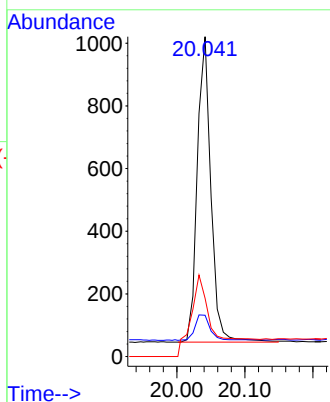
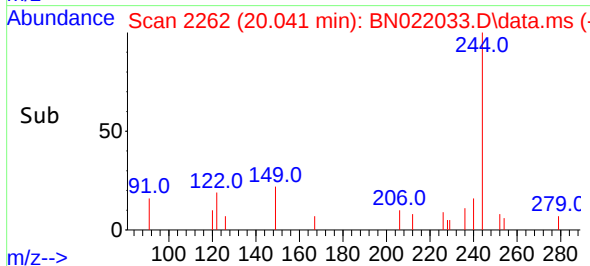


Tgt Ion:244 Resp: 1310
 Ion Ratio Lower Upper
 244 100
 212 12.9 6.5 9.7
 122 18.2 9.1 13.7

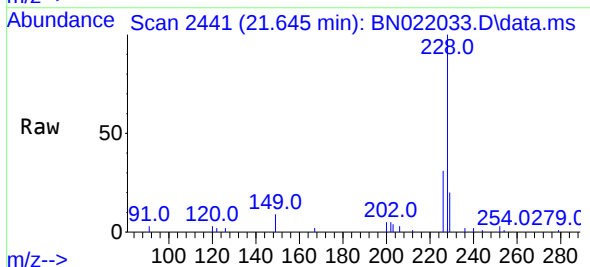
Manual Integrations

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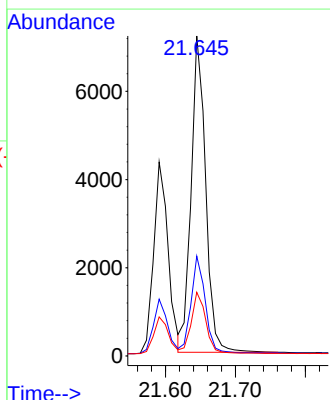
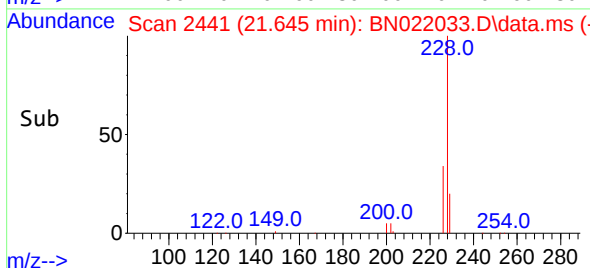
Reviewed By :Christian Giraldo 10/10/2022
 Supervised By :Jagrut Upadhyay 10/10/2022

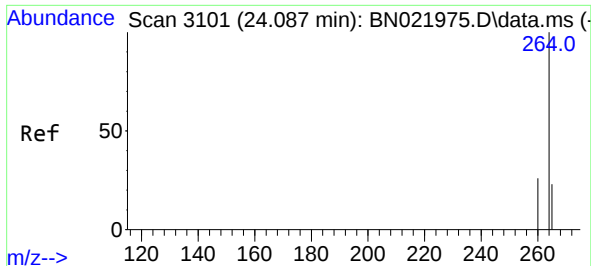


#33
 Chrysene
 Concen: 0.252 ng
 RT: 21.645 min Scan# 2441
 Delta R.T. -0.000 min
 Lab File: BN022033.D
 Acq: 07 Oct 2022 11:32



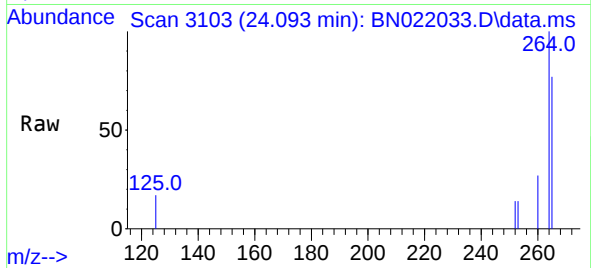
Tgt Ion:228 Resp: 10361
 Ion Ratio Lower Upper
 228 100
 226 31.2 24.2 36.2
 229 19.9 15.8 23.6





#35
Perylene-d12
Concen: 0.400 ng
RT: 24.093 min Scan# 3101
Delta R.T. 0.006 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32

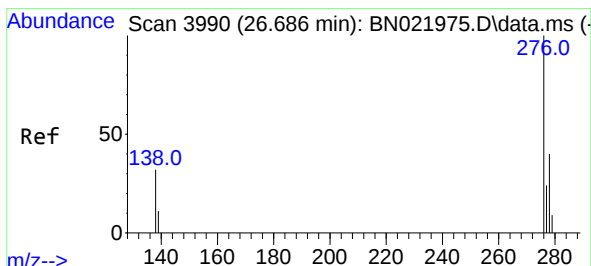
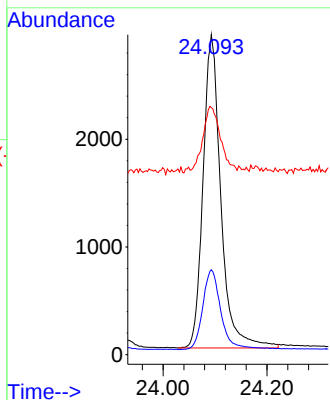
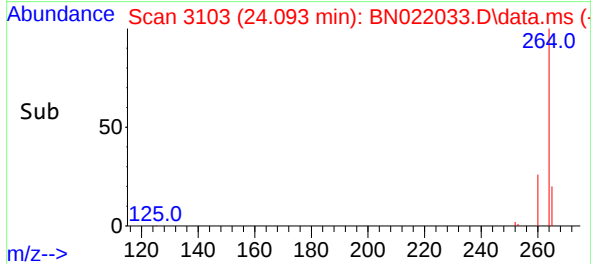
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



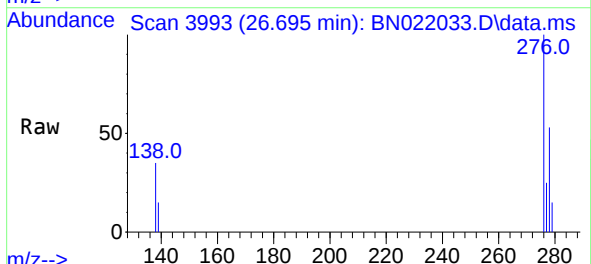
Tgt Ion:264 Resp: 690
Ion Ratio Lower Upper
264 100
260 26.6 21.3 31.9
265 77.2 63.0 94.4

Manual Integrations
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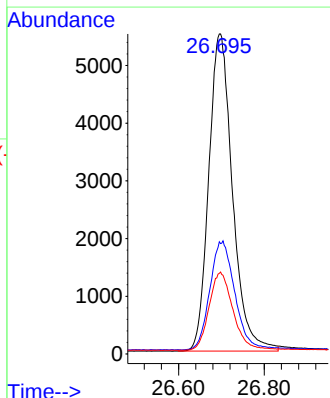
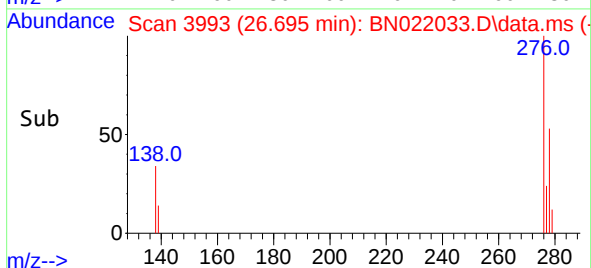
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022

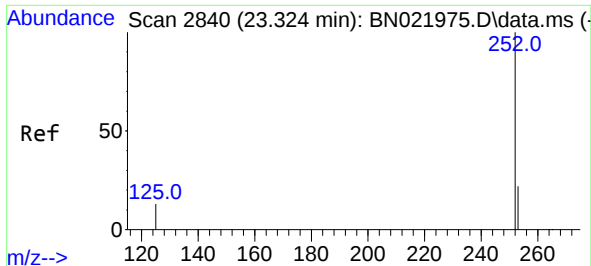


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.606 ng
RT: 26.695 min Scan# 3993
Delta R.T. 0.009 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32



Tgt Ion:276 Resp: 21150
Ion Ratio Lower Upper
276 100
138 36.2 28.0 42.0
277 24.9 19.8 29.8





#37

Benzo(b)fluoranthene

Concen: 0.516 ng

RT: 23.327 min Scan# 2840

Delta R.T. 0.003 min

Lab File: BN022033.D

Acq: 07 Oct 2022 11:32

Instrument :

BNA_N

ClientSampleId :

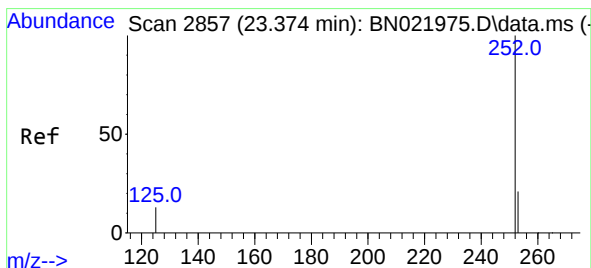
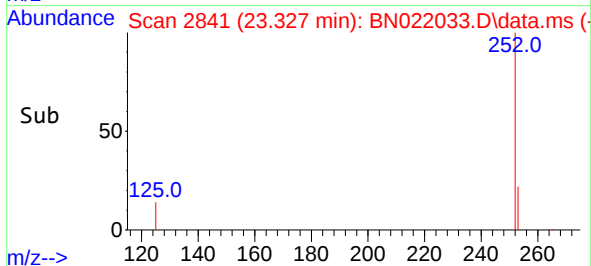
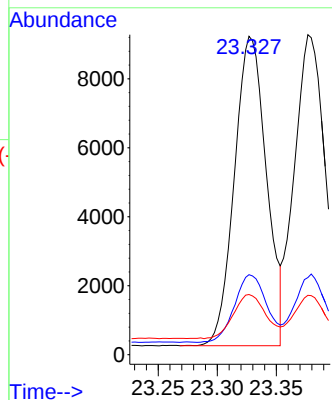
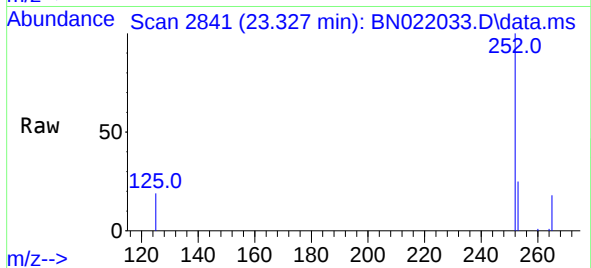
RR-PAH-WPDL

Tgt Ion:	252	Resp:	16894
Ion Ratio	Lower	Upper	
252	100		
253	25.1	20.6	31.0
125	18.9	15.6	23.4

Manual Integrations

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Supervised By :Jagrut Upadhyay 10/10/2022



#38

Benzo(k)fluoranthene

Concen: 0.514 ng

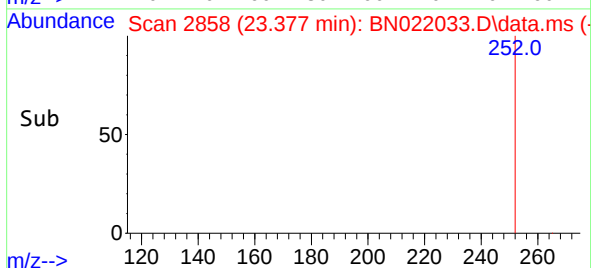
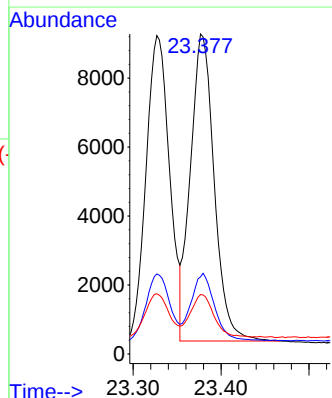
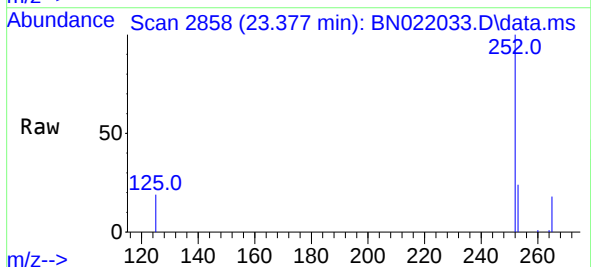
RT: 23.377 min Scan# 2858

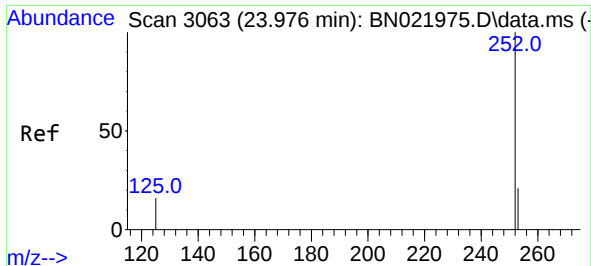
Delta R.T. 0.003 min

Lab File: BN022033.D

Acq: 07 Oct 2022 11:32

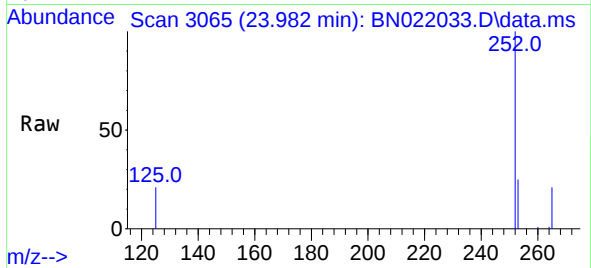
Tgt Ion:	252	Resp:	16753
Ion Ratio	Lower	Upper	
252	100		
253	24.1	20.4	30.6
125	18.6	15.8	23.6





#39
Benzo(a)pyrene
Concen: 0.743 ng
RT: 23.982 min Scan# 3063
Delta R.T. 0.006 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32

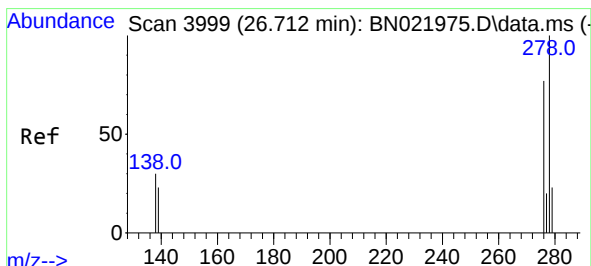
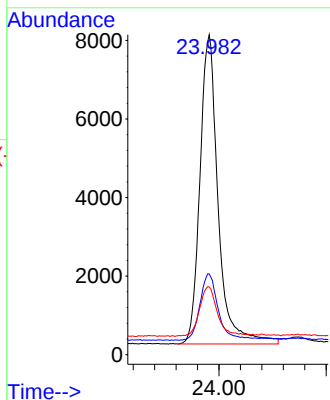
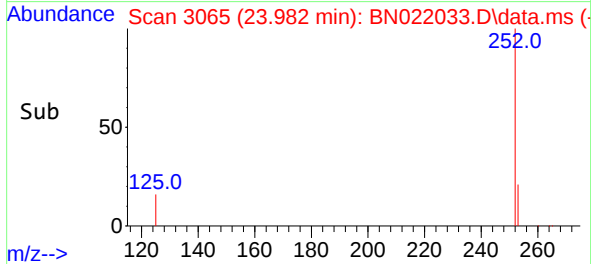
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



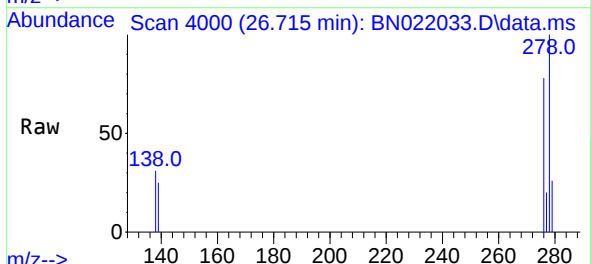
Tgt Ion:252 Resp: 1854
Ion Ratio Lower Upper
252 100
253 25.2 23.2 34.8
125 21.1 21.1 31.7

Manual Integrations
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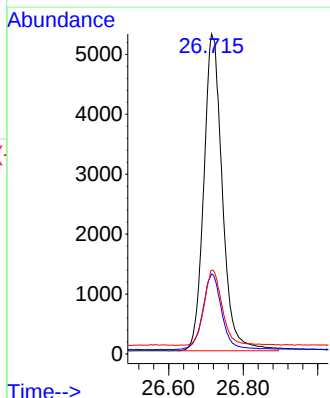
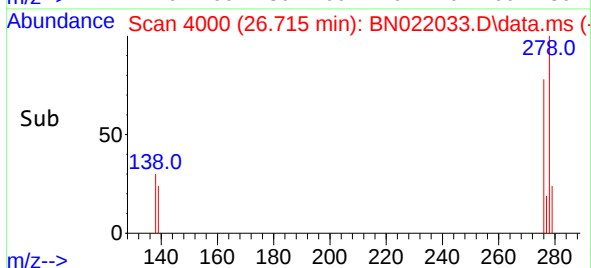
Reviewed By :Christian Giraldo 10/10/2022
Supervised By :Jagrut Upadhyay 10/10/2022

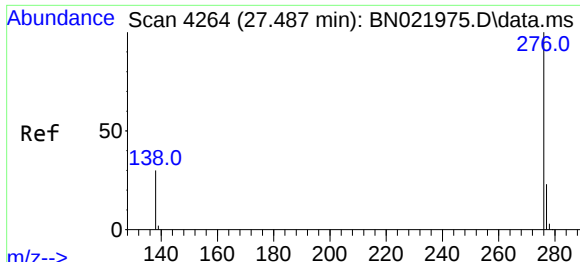


#40
Dibenzo(a,h)anthracene
Concen: 0.657 ng
RT: 26.715 min Scan# 4000
Delta R.T. 0.003 min
Lab File: BN022033.D
Acq: 07 Oct 2022 11:32



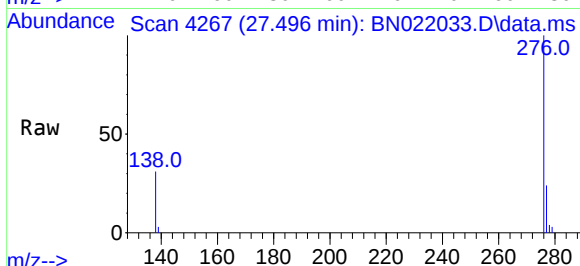
Tgt Ion:278 Resp: 18274
Ion Ratio Lower Upper
278 100
139 25.0 19.9 29.9
279 26.2 21.9 32.9





#41
 Benzo(g,h,i)perylene
 Concen: 0.635 ng
 RT: 27.496 min Scan# 41
 Delta R.T. 0.009 min
 Lab File: BN022033.D
 Acq: 07 Oct 2022 11:32

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL



Tgt Ion: 276 Resp: 1907
 Ion Ratio Lower Upper
 276 100
 277 23.8 20.0 30.0
 138 31.0 25.2 37.8

Manual Integrations
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 Supervised By : Jagrut Upadhyay 10/10/2022

