

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
 Data File : BN036604.D
 Acq On : 14 Mar 2025 12:11
 Operator : RC/JU
 Sample : Q1502-21DL 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/17/2025
 Supervised By :Jagrut Upadhyay 03/17/2025

Quant Time: Mar 14 12:39:19 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 16:06:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	1713	0.400	ng	0.00
7) Naphthalene-d8	10.509	136	4150	0.400	ng	0.00
13) Acenaphthene-d10	14.356	164	2481	0.400	ng	-0.01
19) Phenanthrene-d10	17.111	188	4430	0.400	ng	# 0.00
29) Chrysene-d12	21.295	240	3514	0.400	ng	0.00
35) Perylene-d12	23.554	264	3166	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.312	112	305	0.076	ng	0.00
5) Phenol-d6	6.901	99	324	0.066	ng	0.00
8) Nitrobenzene-d5	8.897	82	269	0.060	ng	0.02
11) 2-Methylnaphthalene-d10	12.106	152	452	0.073	ng	0.00
14) 2,4,6-Tribromophenol	15.883	330	58	0.052	ng	0.03
15) 2-Fluorobiphenyl	13.003	172	811	0.056	ng	0.02
27) Fluoranthene-d10	19.141	212	996	0.088	ng	0.00
31) Terphenyl-d14	19.750	244	651	0.077	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.562	128	22116	1.812	ng	98
12) 2-Methylnaphthalene	12.182	142	13633	1.755	ng	99
16) Acenaphthylene	14.078	152	9655	0.825	ng	100
17) Acenaphthene	14.420	154	20708	2.702	ng	99
18) Fluorene	15.425	166	7985	0.770	ng	100
25) Phenanthrene	17.149	178	7968	0.600	ng	100
26) Anthracene	17.248	178	7936	0.662	ng	99
28) Fluoranthene	19.174	202	11861	0.795	ng	98
30) Pyrene	19.536	202	9070	0.528	ng	100
32) Benzo(a)anthracene	21.286	228	1908	0.156	ng	93
33) Chrysene	21.331	228	12287	0.920	ng	100
36) Indeno(1,2,3-cd)pyrene	25.835	276	7952	0.696	ng	# 91
37) Benzo(b)fluoranthene	22.876	252	9213m	0.800	ng	
38) Benzo(k)fluoranthene	22.917	252	3283	0.272	ng	97
39) Benzo(a)pyrene	23.455	252	3773	0.389	ng	98
40) Dibenzo(a,h)anthracene	25.858	278	2135	0.240	ng	# 89
41) Benzo(g,h,i)perylene	26.531	276	4270	0.420	ng	97

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

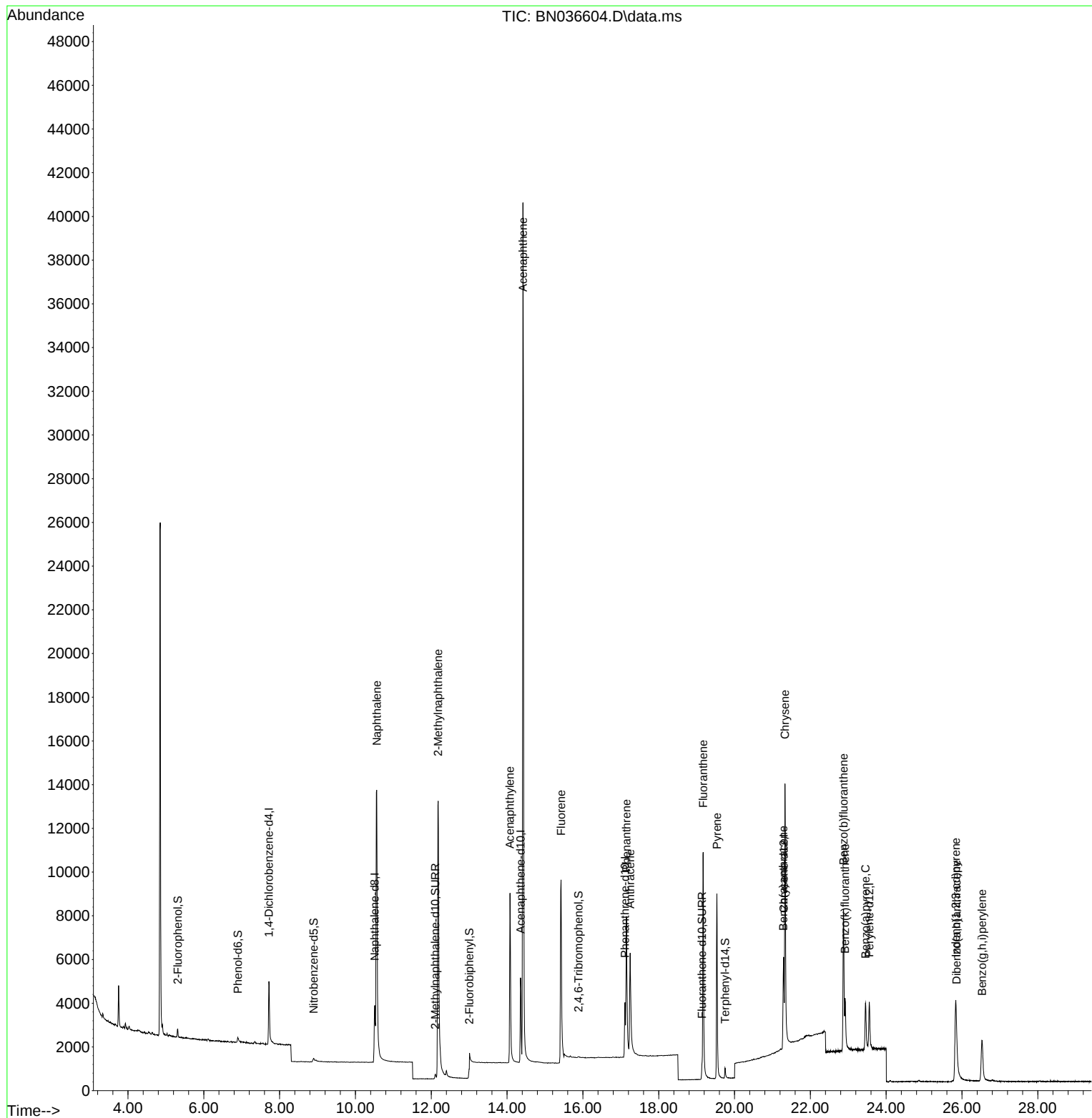
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN031425\
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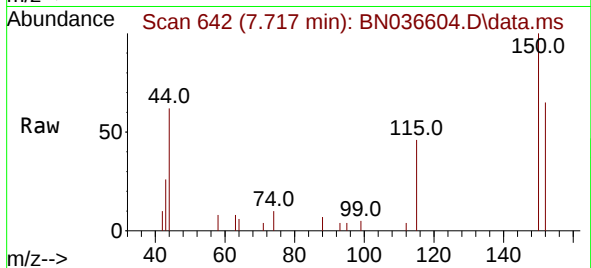
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.717 min Scan# 643
Delta R.T. -0.007 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

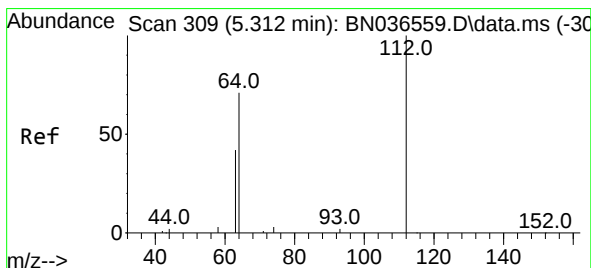
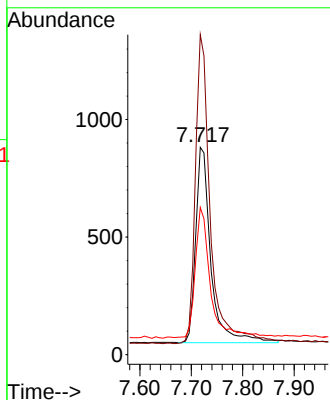
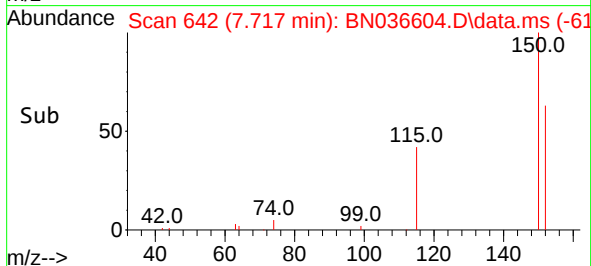
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:152 Resp: 171
Ion Ratio Lower Upper
152 100
150 154.3 123.7 185.5
115 71.0 54.3 81.5

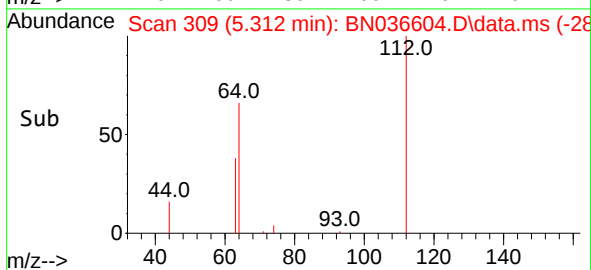
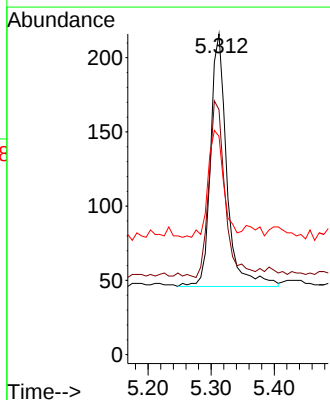
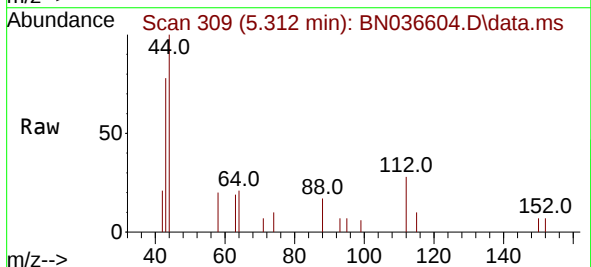
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#4
2-Fluorophenol
Concen: 0.076 ng
RT: 5.312 min Scan# 309
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

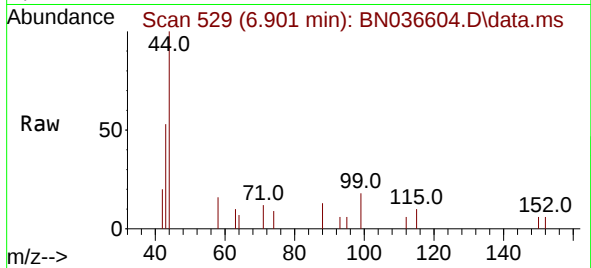
Tgt Ion:112 Resp: 305
Ion Ratio Lower Upper
112 100
64 67.2 53.1 79.7
63 41.0 31.8 47.8





#5
Phenol-d6
Concen: 0.066 ng
RT: 6.901 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

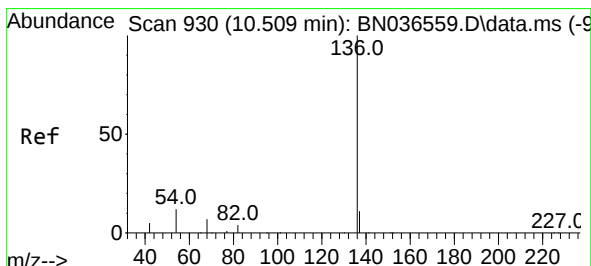
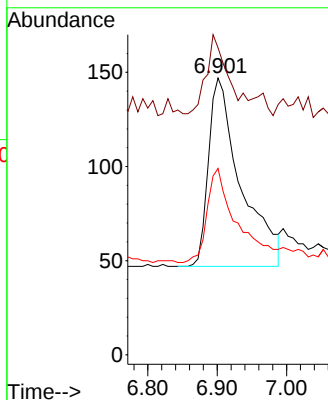
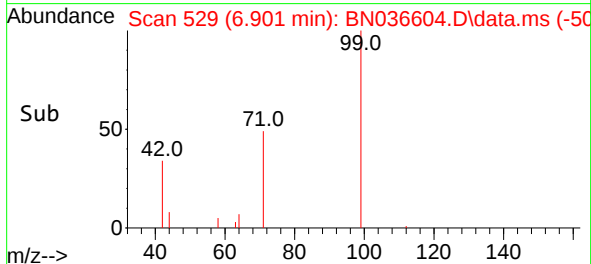
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



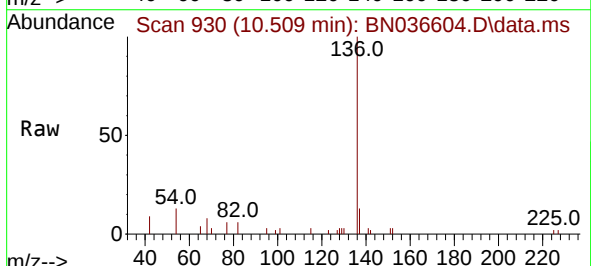
Tgt Ion: 99 Resp: 324
Ion Ratio Lower Upper
99 100
42 28.1 26.5 39.7
71 46.0 34.1 51.1

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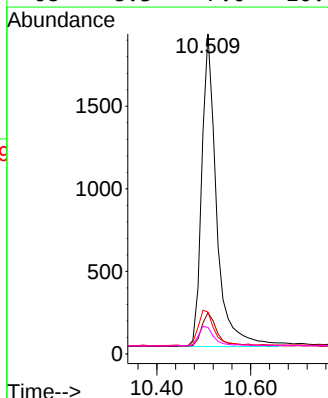
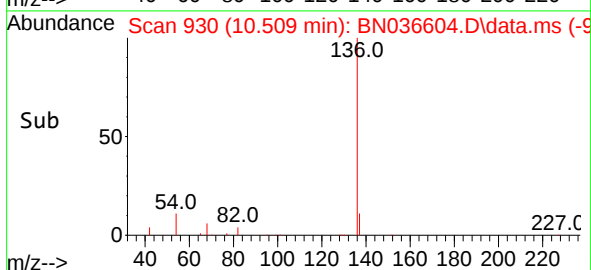
Reviewed By :Anahy Claudio 03/17/2025
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#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.509 min Scan# 930
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11



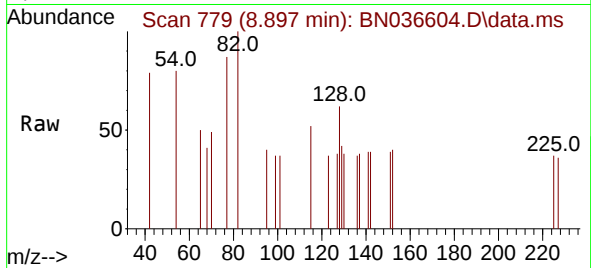
Tgt Ion:136 Resp: 4150
Ion Ratio Lower Upper
136 100
137 12.9 10.3 15.5
54 13.1 11.5 17.3
68 8.3 7.0 10.4





#8
Nitrobenzene-d5
Concen: 0.060 ng
RT: 8.897 min Scan# 777
Delta R.T. 0.022 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

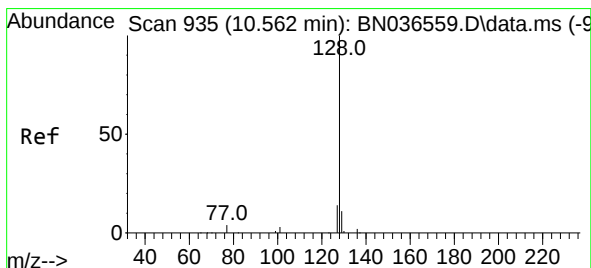
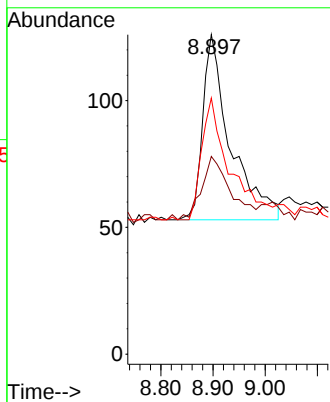
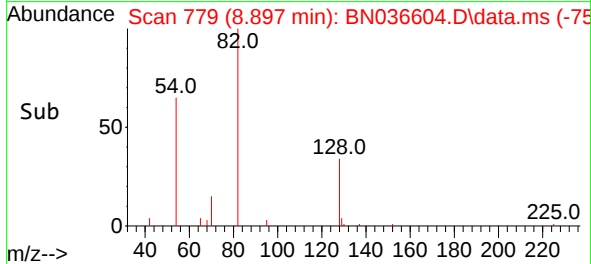
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion: 82	Resp: 269
Ion Ratio	Lower Upper
82	100
128	61.9 30.6 45.8
54	80.2 52.2 78.4

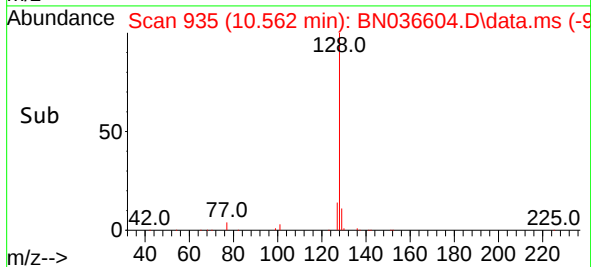
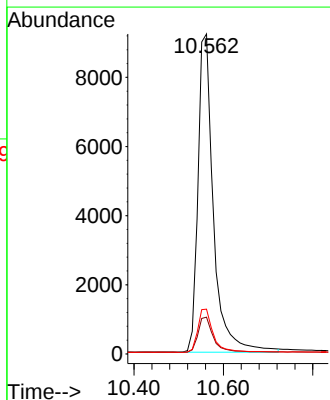
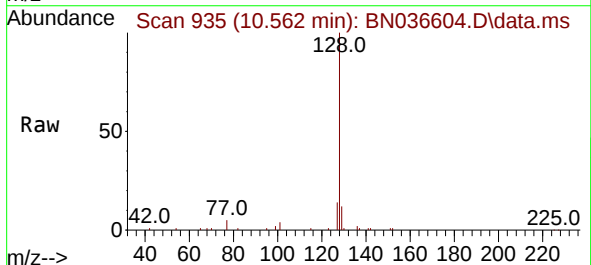
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#9
Naphthalene
Concen: 1.812 ng
RT: 10.562 min Scan# 935
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

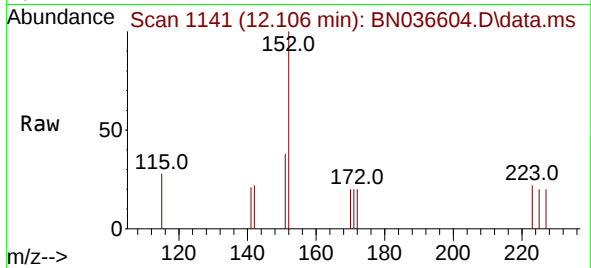
Tgt Ion:128	Resp: 22116
Ion Ratio	Lower Upper
128	100
129	11.5 9.8 14.6
127	14.0 11.8 17.8





#11
2-Methylnaphthalene-d10
Concen: 0.073 ng
RT: 12.106 min Scan# 1141
Delta R.T. -0.005 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

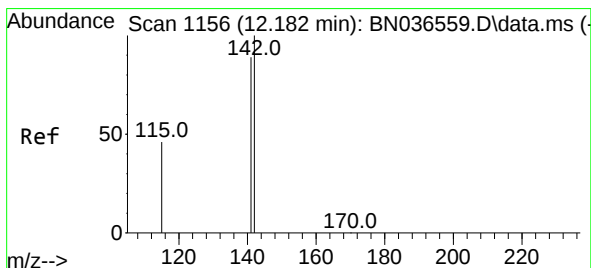
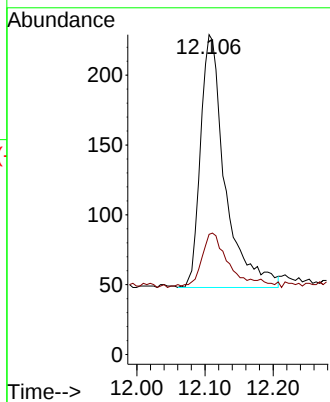
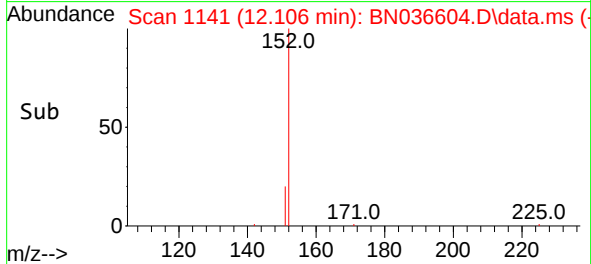
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:152 Resp: 452
Ion Ratio Lower Upper
152 100
151 24.3 17.0 25.6

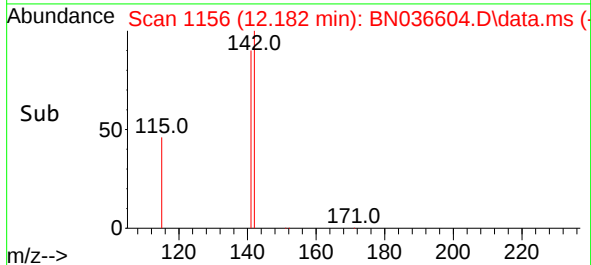
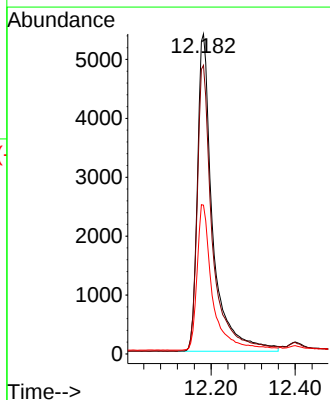
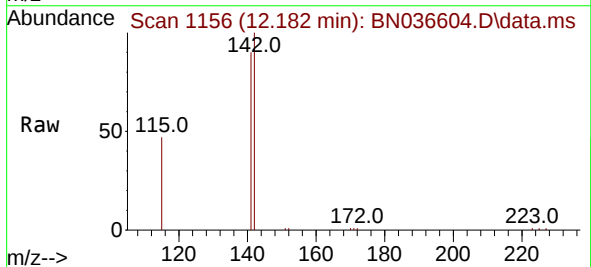
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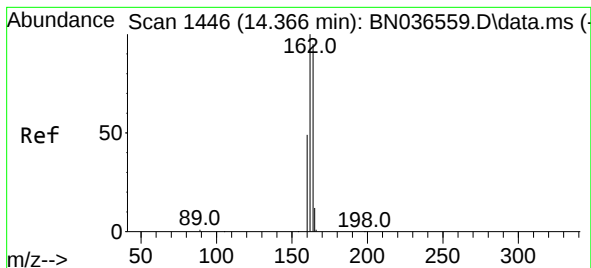
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#12
2-Methylnaphthalene
Concen: 1.755 ng
RT: 12.182 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

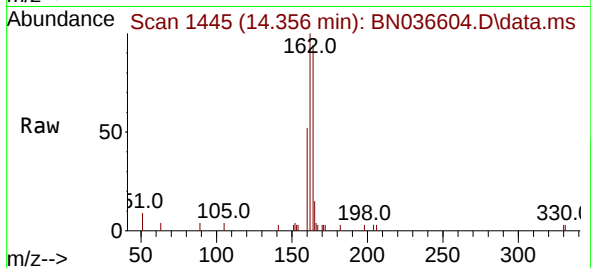
Tgt Ion:142 Resp: 13633
Ion Ratio Lower Upper
142 100
141 90.2 71.7 107.5
115 46.5 38.3 57.5





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.356 min Scan# 1445
Delta R.T. -0.011 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

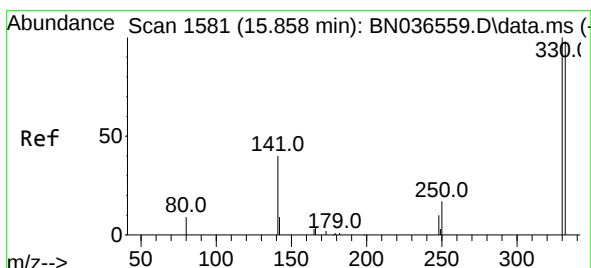
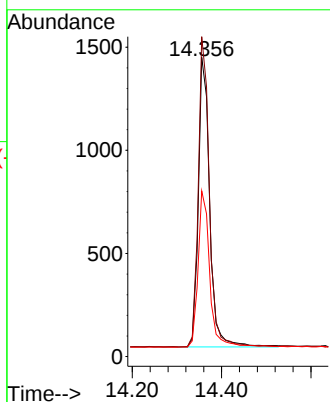
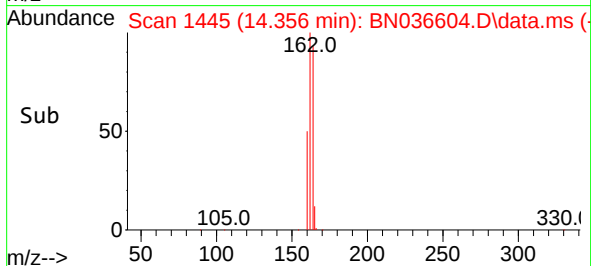
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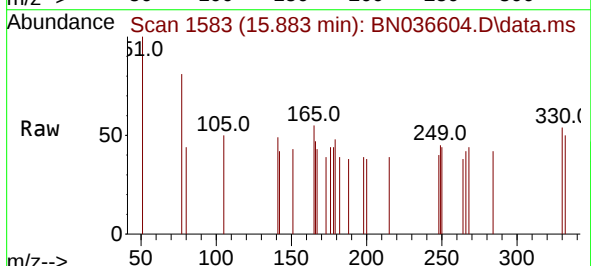
Tgt Ion:164 Resp: 248
Ion Ratio Lower Upper
164 100
162 106.9 84.2 126.2
160 55.3 42.2 63.2

Manual Integrations
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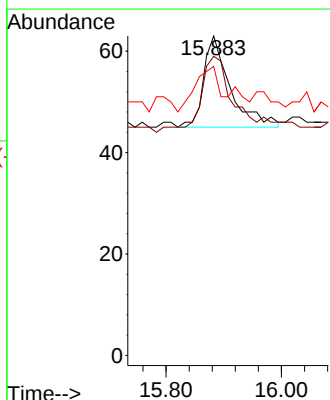
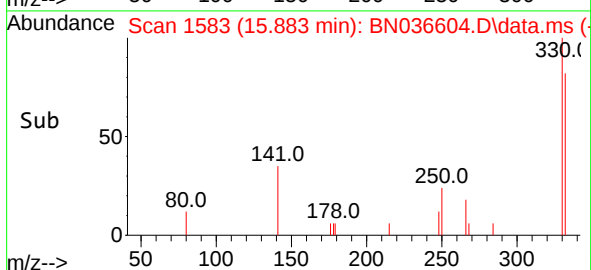
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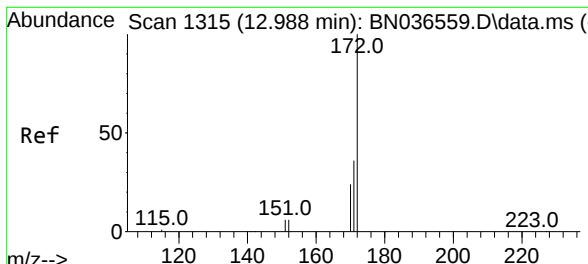


#14
2,4,6-Tribromophenol
Concen: 0.052 ng
RT: 15.883 min Scan# 1583
Delta R.T. 0.025 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11



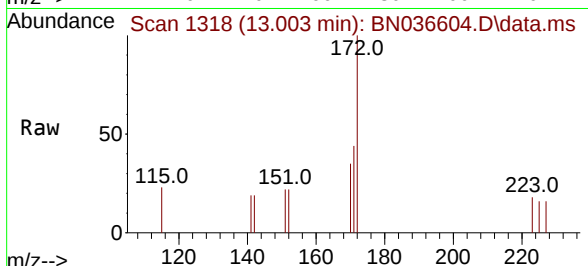
Tgt Ion:330 Resp: 58
Ion Ratio Lower Upper
330 100
332 103.4 75.2 112.8
141 46.6 43.4 65.2





#15
2-Fluorobiphenyl
Concen: 0.056 ng
RT: 13.003 min Scan# 1318
Delta R.T. 0.015 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

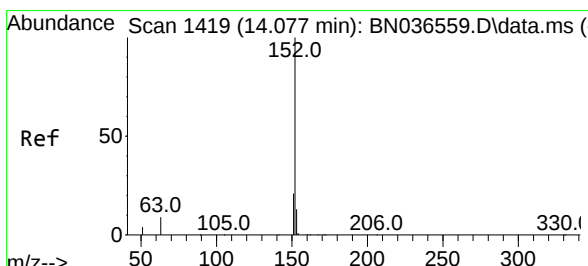
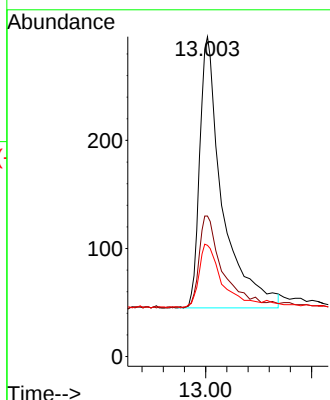
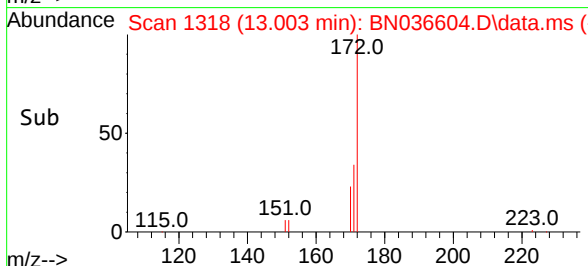
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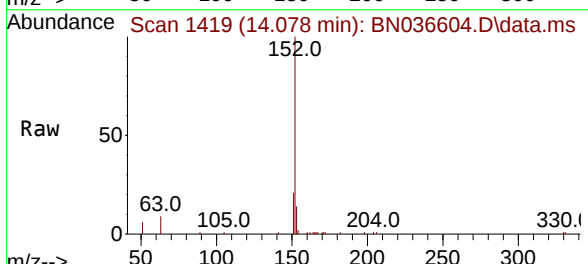
Tgt Ion:172 Resp: 81
Ion Ratio Lower Upper
172 100
171 43.9 29.5 44.3
170 34.8 20.2 30.4

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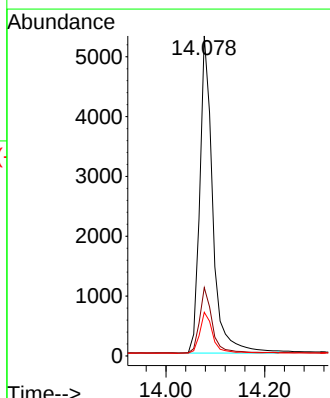
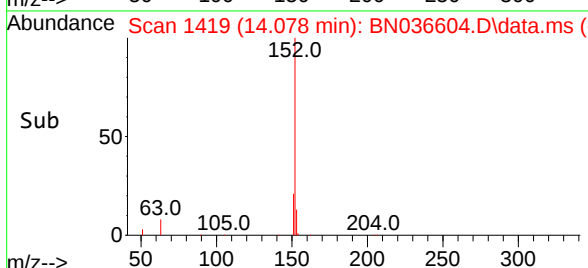
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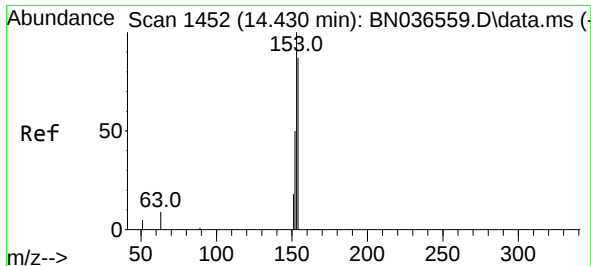


#16
Acenaphthylene
Concen: 0.825 ng
RT: 14.078 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11



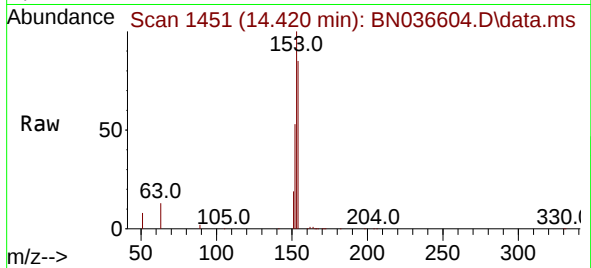
Tgt Ion:152 Resp: 9655
Ion Ratio Lower Upper
152 100
151 20.3 16.2 24.4
153 12.9 10.6 15.8





#17
Acenaphthene
Concen: 2.702 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.010 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

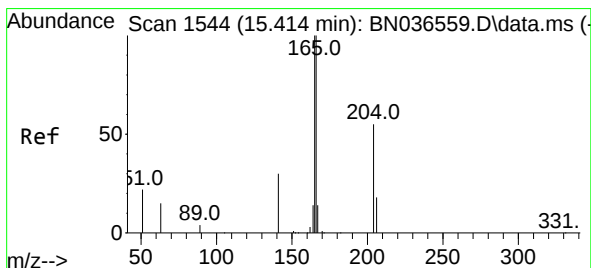
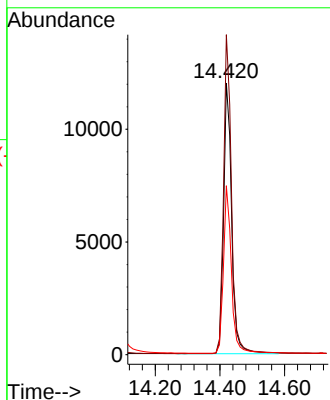
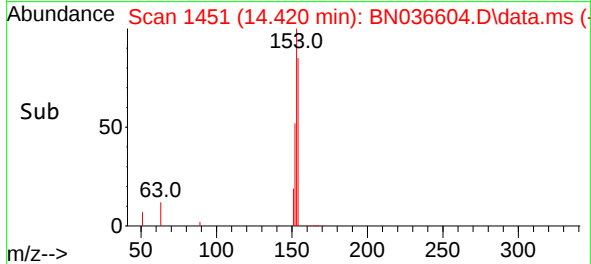
Instrument :
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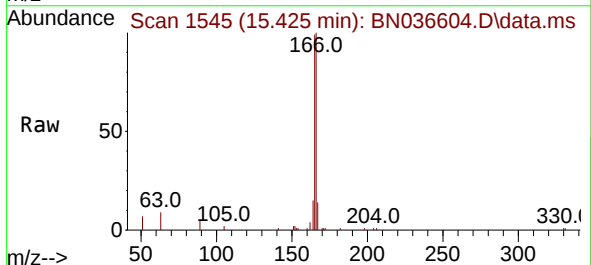
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Ion Ratio Lower Upper
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153 116.6 94.1 141.1
152 61.5 49.8 74.6

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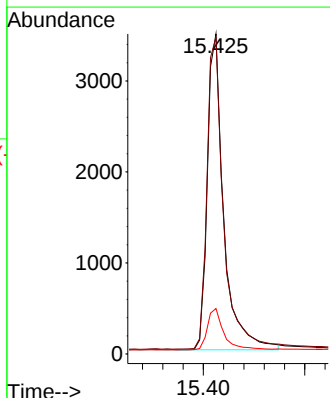
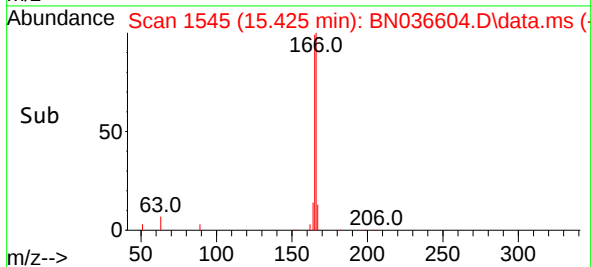
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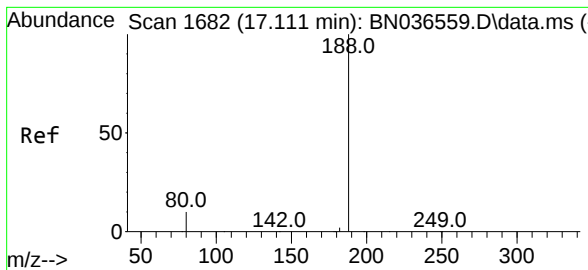


#18
Fluorene
Concen: 0.770 ng
RT: 15.425 min Scan# 1545
Delta R.T. 0.011 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11



Tgt Ion:166 Resp: 7985
Ion Ratio Lower Upper
166 100
165 100.1 79.8 119.8
167 12.9 10.6 15.8





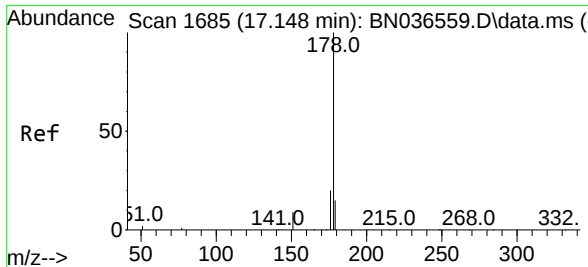
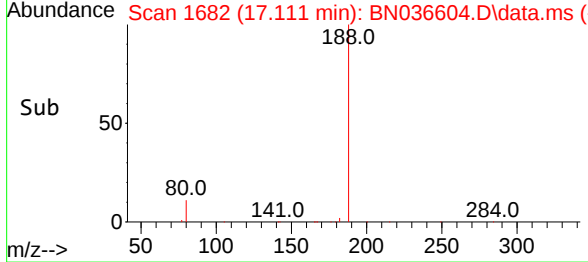
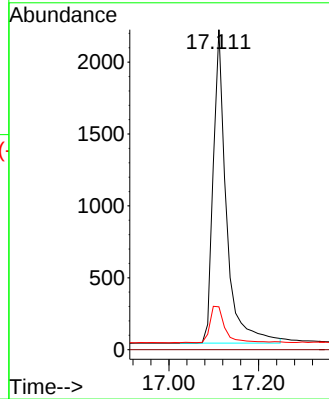
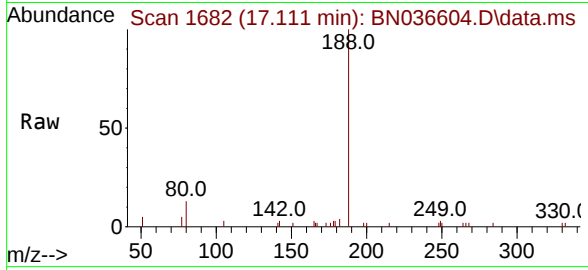
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.111 min Scan# 1682
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

Tgt Ion:188 Resp: 4430
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.4 8.8 13.2

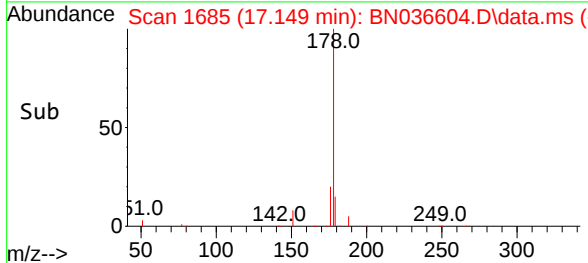
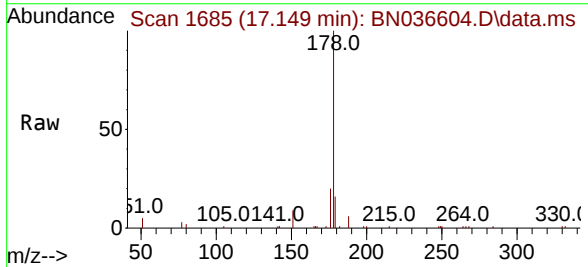
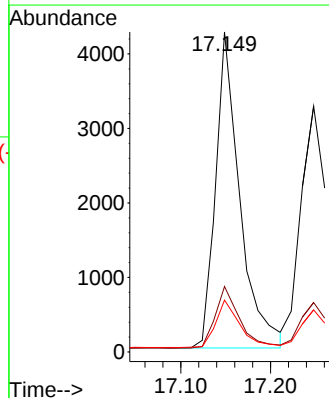
Manual Integrations
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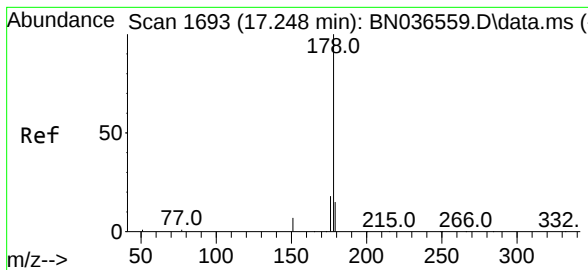
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#25
Phenanthrene
Concen: 0.600 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

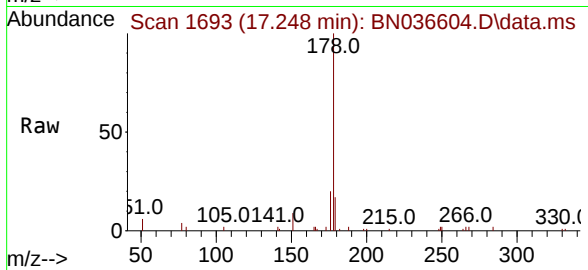
Tgt Ion:178 Resp: 7968
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.2 12.2 18.4





#26
 Anthracene
 Concen: 0.662 ng
 RT: 17.248 min Scan# 1693
 Delta R.T. 0.000 min
 Lab File: BN036604.D
 Acq: 14 Mar 2025 12:11

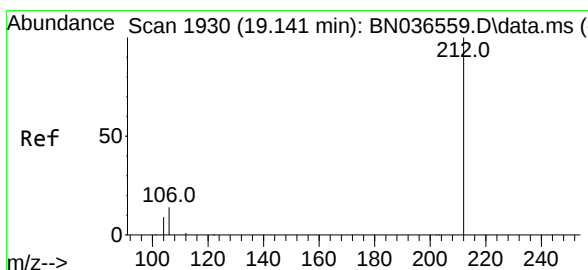
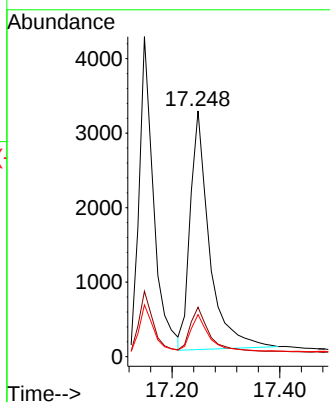
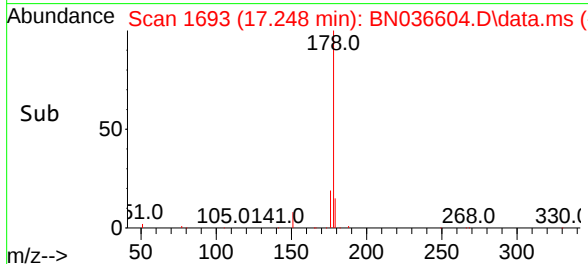
Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL



Tgt Ion:178 Resp: 7930
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.4 23.2
 179 15.2 12.6 18.8

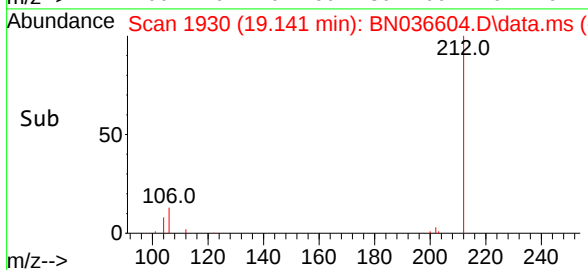
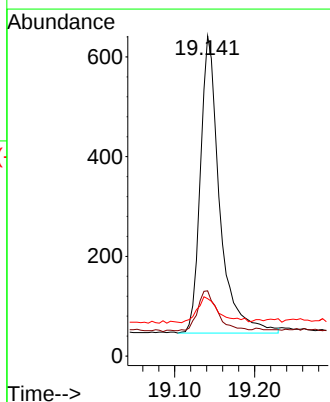
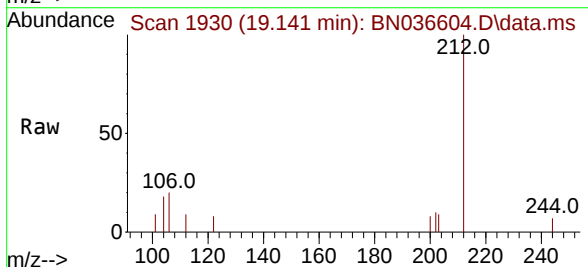
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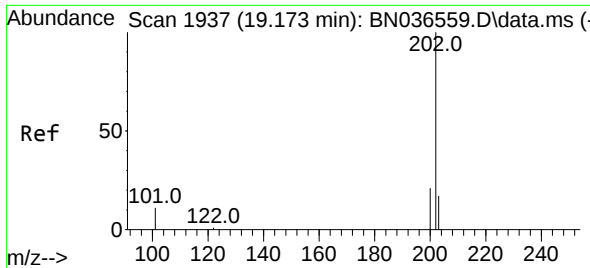
Reviewed By :Anahy Claudio 03/17/2025
 Supervised By :Jagrut Upadhyay 03/17/2025



#27
 Fluoranthene-d10
 Concen: 0.088 ng
 RT: 19.141 min Scan# 1930
 Delta R.T. 0.000 min
 Lab File: BN036604.D
 Acq: 14 Mar 2025 12:11

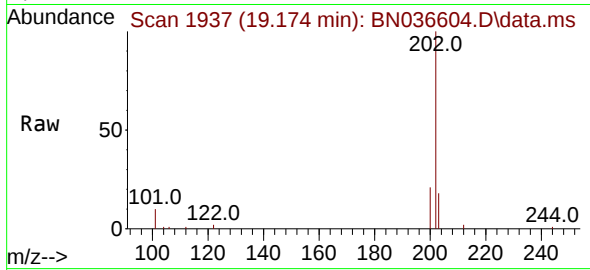
Tgt Ion:212 Resp: 996
 Ion Ratio Lower Upper
 212 100
 106 13.7 11.8 17.6
 104 10.0 7.3 10.9





#28
Fluoranthene
Concen: 0.795 ng
RT: 19.174 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

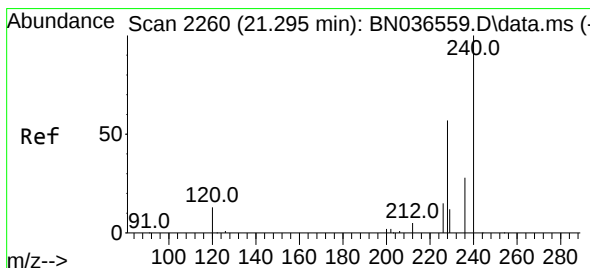
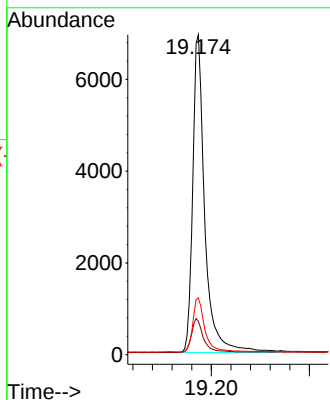
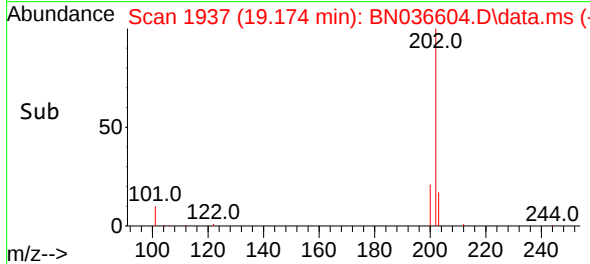
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:202 Resp: 1186
Ion Ratio Lower Upper
202 100
101 10.5 9.4 14.0
203 17.2 13.5 20.3

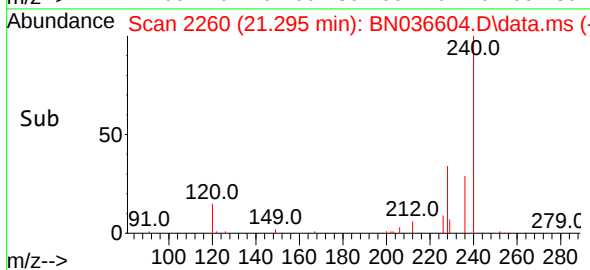
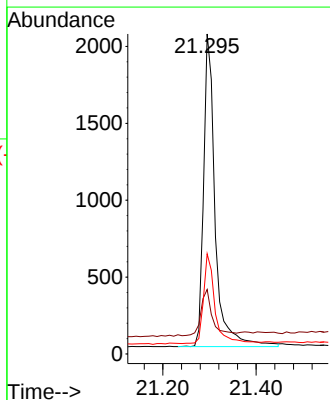
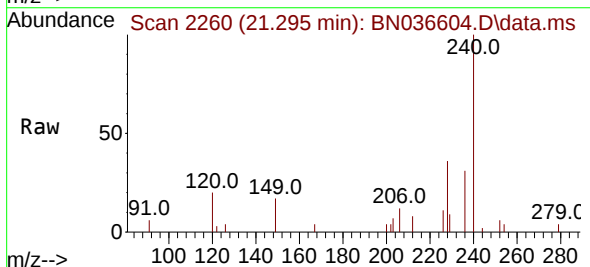
Manual Integrations
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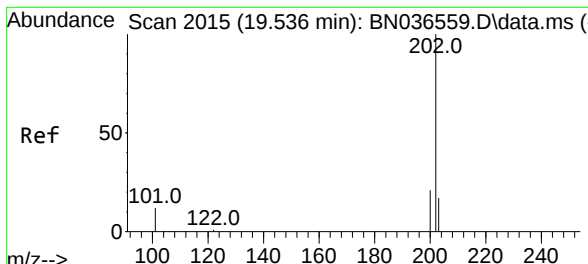
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.295 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

Tgt Ion:240 Resp: 3514
Ion Ratio Lower Upper
240 100
120 20.2 14.6 22.0
236 31.3 24.1 36.1





#30
 Pyrene
 Concen: 0.528 ng
 RT: 19.536 min Scan# 2015
 Delta R.T. 0.000 min
 Lab File: BN036604.D
 Acq: 14 Mar 2025 12:11

Instrument :

BNA_N

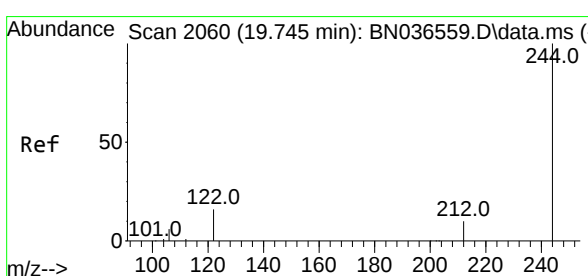
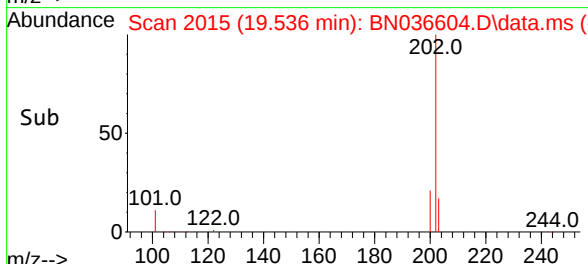
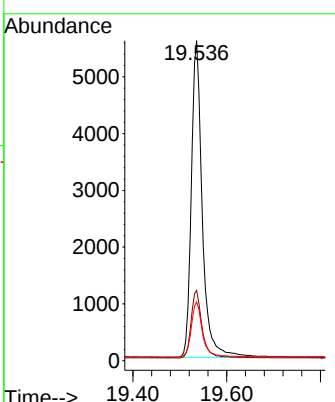
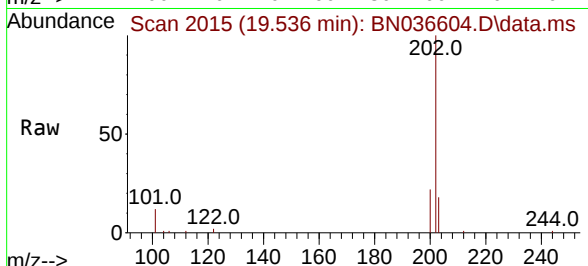
ClientSampleId :

RR-PAH-WPDL

Tgt Ion:	202	Resp:	9070
Ion Ratio	Lower	Upper	
202	100		
200	21.5	17.1	25.7
203	17.9	14.1	21.1

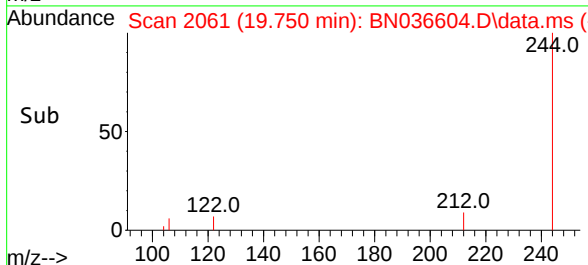
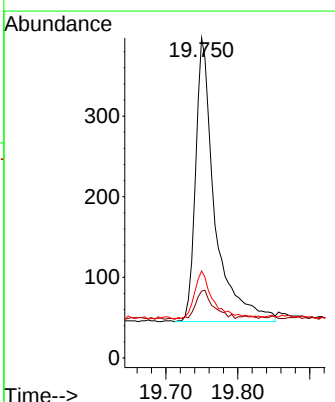
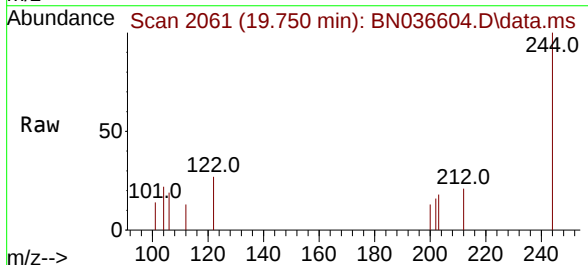
Manual Integrations
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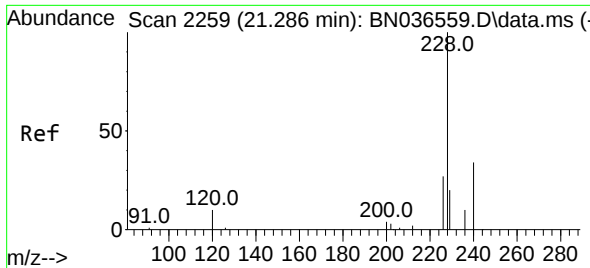
Reviewed By :Anahy Claudio 03/17/2025
 Supervised By :Jagrut Upadhyay 03/17/2025



#31
 Terphenyl-d14
 Concen: 0.077 ng
 RT: 19.750 min Scan# 2061
 Delta R.T. 0.005 min
 Lab File: BN036604.D
 Acq: 14 Mar 2025 12:11

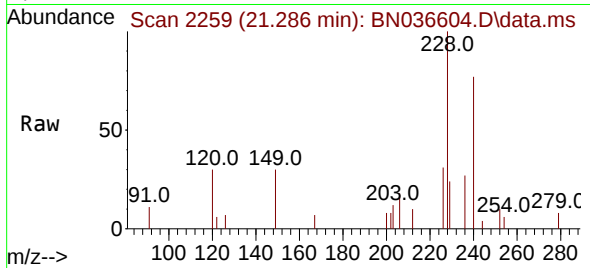
Tgt Ion:	244	Resp:	651
Ion Ratio	Lower	Upper	
244	100		
212	20.9	9.6	14.4#
122	27.2	13.9	20.9#





#32
Benzo(a)anthracene
Concen: 0.156 ng
RT: 21.286 min Scan# 21259
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

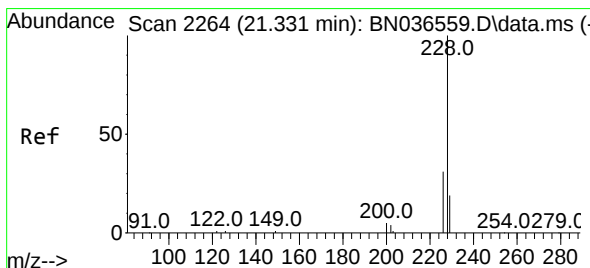
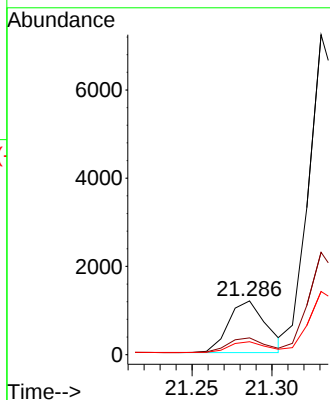
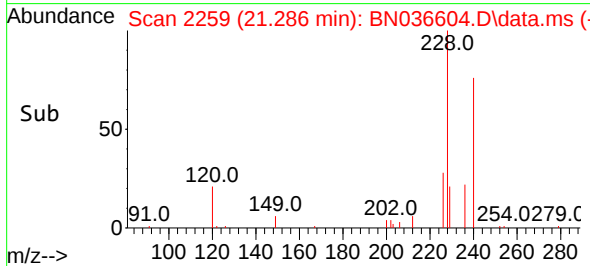
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



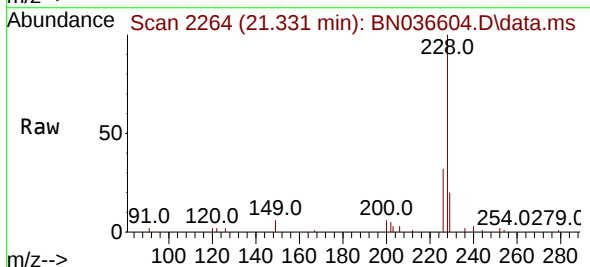
Tgt Ion:228 Resp: 1908
Ion Ratio Lower Upper
228 100
226 31.3 22.5 33.7
229 24.2 16.6 25.0

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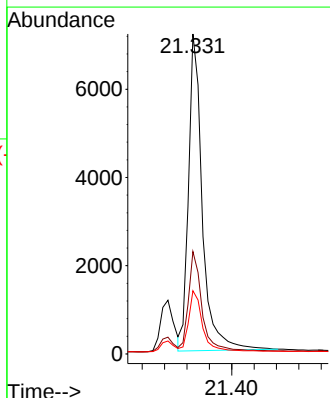
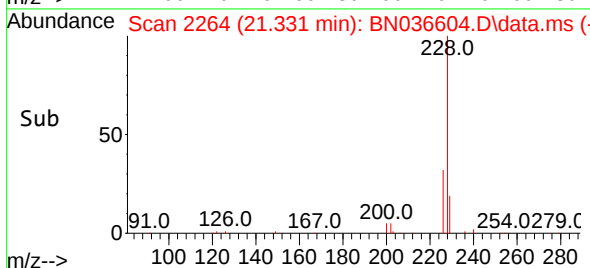
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

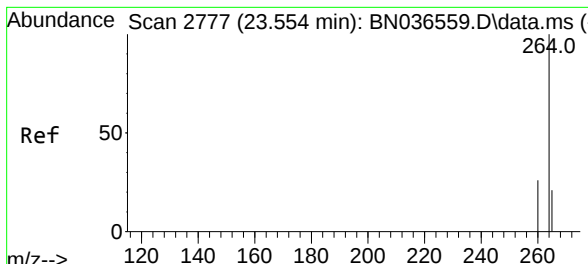


#33
Chrysene
Concen: 0.920 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11



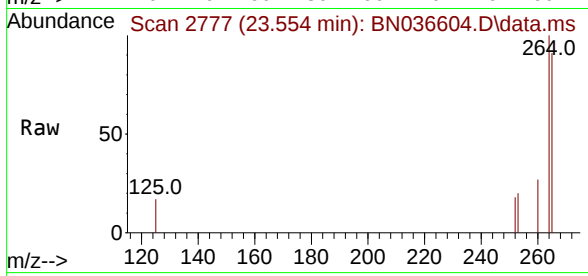
Tgt Ion:228 Resp: 12287
Ion Ratio Lower Upper
228 100
226 32.0 25.3 37.9
229 19.8 15.8 23.8





#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.554 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN036604.D
 Acq: 14 Mar 2025 12:11

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

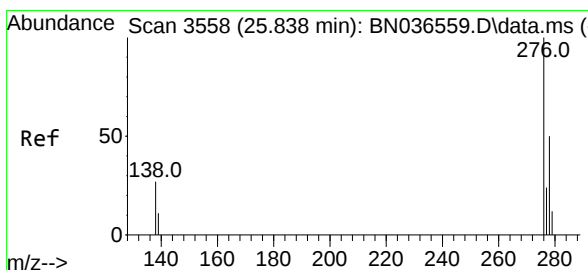
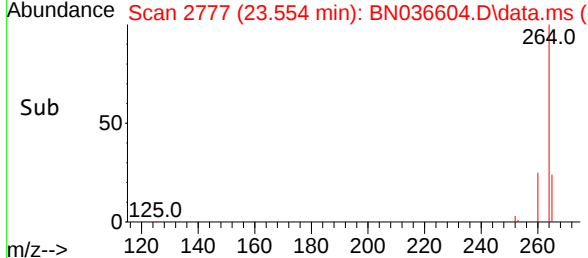
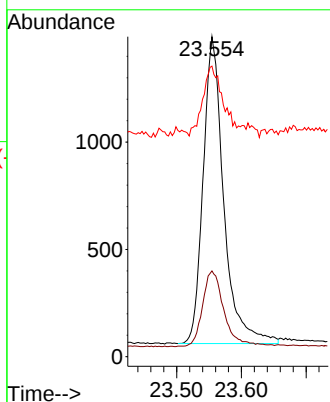


Tgt Ion:264 Resp: 3160

Ion	Ratio	Lower	Upper
264	100		
260	26.8	22.6	33.8
265	90.8	88.1	132.1

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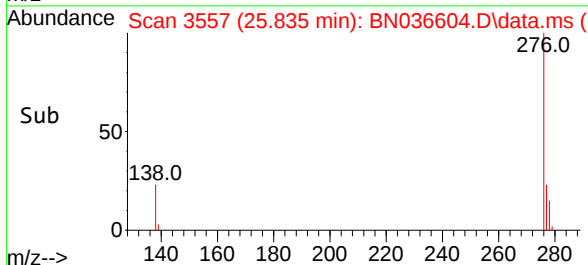
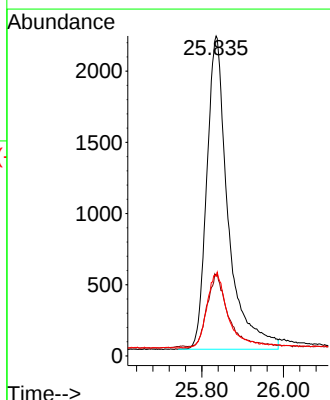
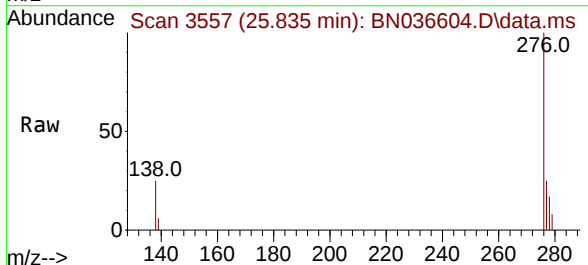
Reviewed By :Anahy Claudio 03/17/2025
 Supervised By :Jagrut Upadhyay 03/17/2025

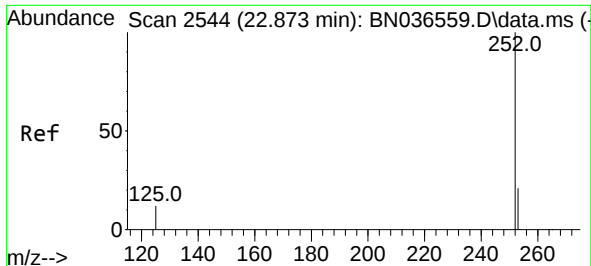


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.696 ng
 RT: 25.835 min Scan# 3557
 Delta R.T. -0.003 min
 Lab File: BN036604.D
 Acq: 14 Mar 2025 12:11

Tgt Ion:276 Resp: 7952

Ion	Ratio	Lower	Upper
276	100		
138	22.6	23.4	35.2#
277	22.9	20.0	30.0





#37

Benzo(b)fluoranthene

Concen: 0.800 ng m

RT: 22.876 min Scan# 2544

Delta R.T. 0.003 min

Lab File: BN036604.D

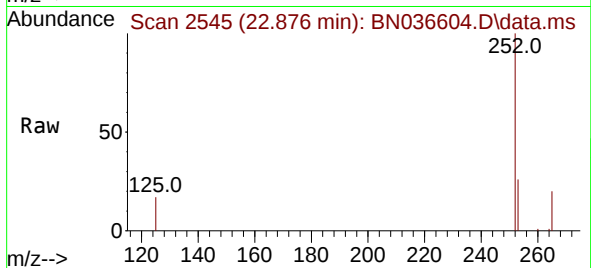
Acq: 14 Mar 2025 12:11

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL



Tgt Ion:252 Resp: 921

Ion Ratio Lower Upper

252 100

253 26.2 23.9 35.9

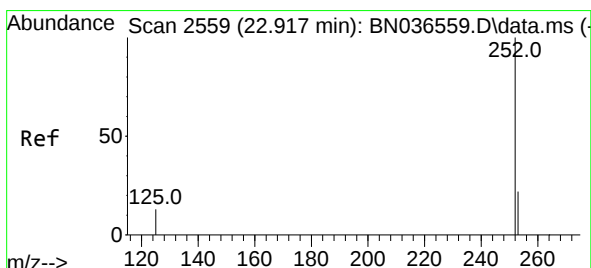
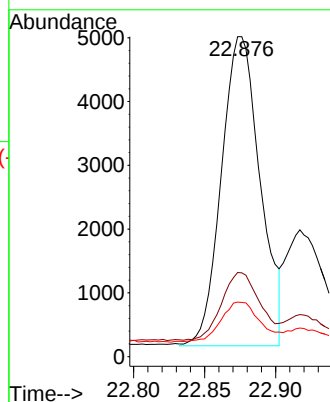
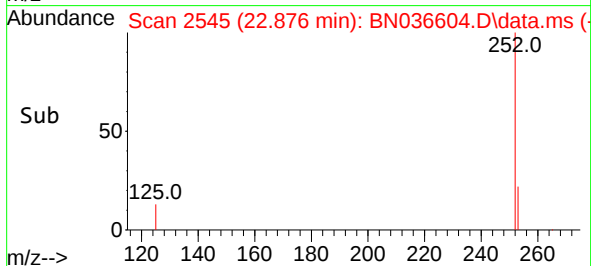
125 17.0 17.4 26.2

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Reviewed By :Anahy Claudio 03/17/2025

Supervised By :Jagrut Upadhyay 03/17/2025



#38

Benzo(k)fluoranthene

Concen: 0.272 ng

RT: 22.917 min Scan# 2559

Delta R.T. 0.000 min

Lab File: BN036604.D

Acq: 14 Mar 2025 12:11

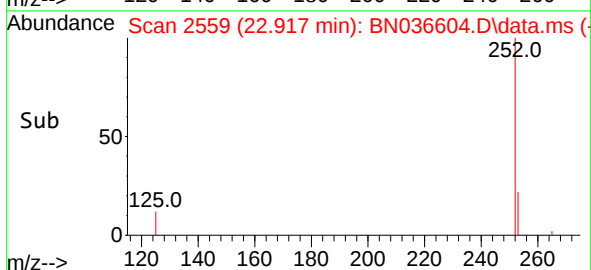
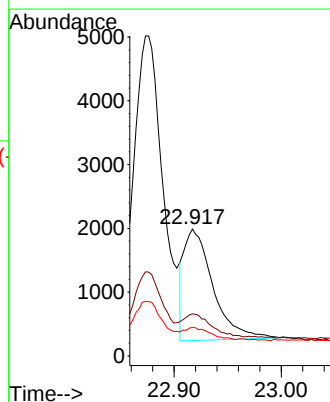
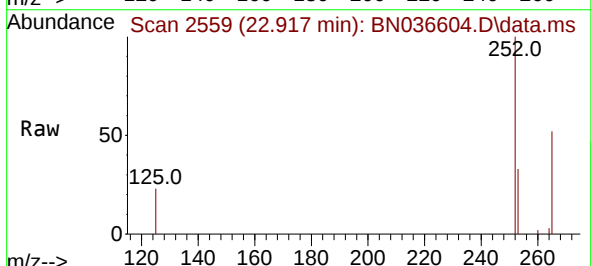
Tgt Ion:252 Resp: 3283

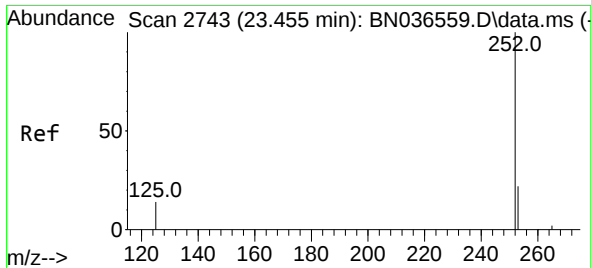
Ion Ratio Lower Upper

252 100

253 33.2 24.6 36.8

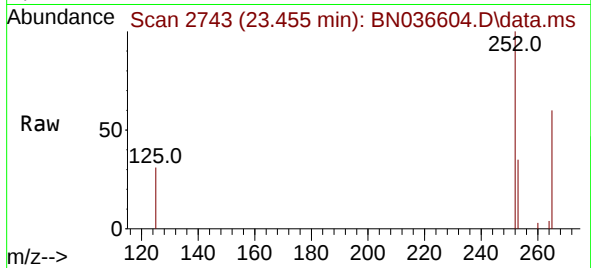
125 22.5 17.8 26.8





#39
Benzo(a)pyrene
Concen: 0.389 ng
RT: 23.455 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

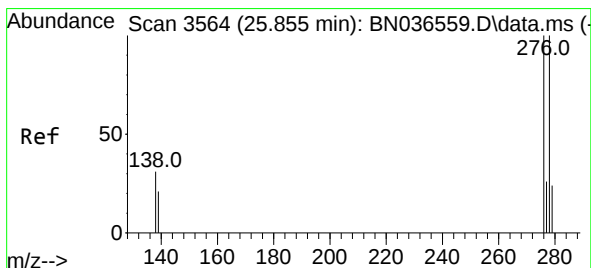
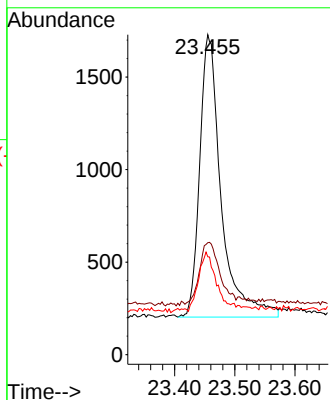
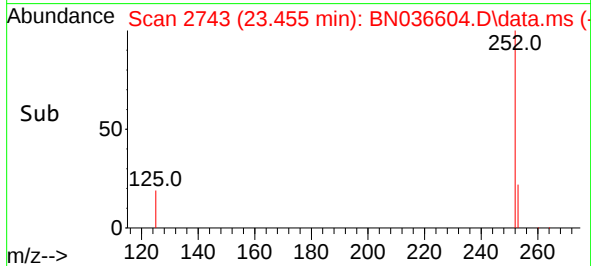
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



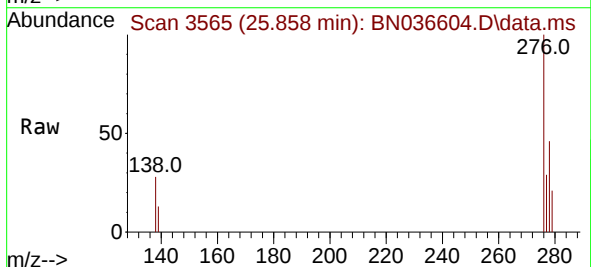
Tgt Ion:252 Resp: 377
Ion Ratio Lower Upper
252 100
253 35.0 27.8 41.8
125 30.6 22.7 34.1

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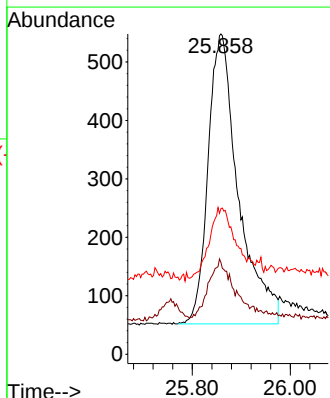
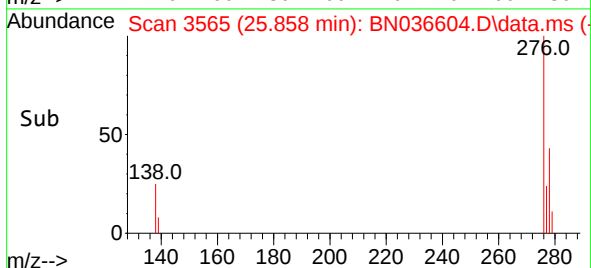
Reviewed By :Anahy Claudio 03/17/2025
Supervised By :Jagrut Upadhyay 03/17/2025

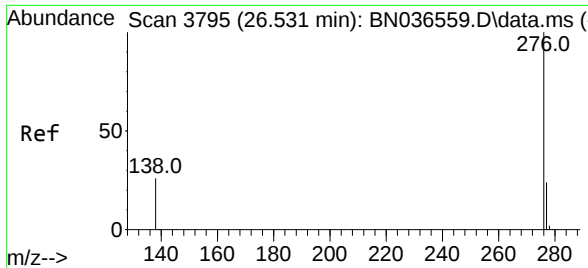


#40
Dibenzo(a,h)anthracene
Concen: 0.240 ng
RT: 25.858 min Scan# 3565
Delta R.T. 0.003 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11



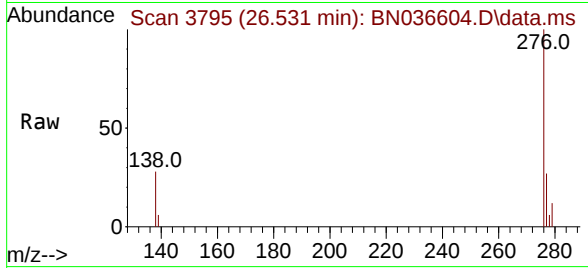
Tgt Ion:278 Resp: 2135
Ion Ratio Lower Upper
278 100
139 28.6 20.8 31.2
279 45.4 28.8 43.2#





#41
Benzo(g,h,i)perylene
Concen: 0.420 ng
RT: 26.531 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN036604.D
Acq: 14 Mar 2025 12:11

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:276 Resp: 4270
Ion Ratio Lower Upper
276 100
277 27.2 22.2 33.4
138 27.7 24.1 36.1

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Supervised By :Jagrut Upadhyay 03/17/2025

