

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091923\
 Data File : BN027747.D
 Acq On : 19 Sep 2023 12:15
 Operator : MA/JU
 Sample : 04346-21DL 5X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

Quant Time: Sep 19 13:39:33 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 18 14:40:21 2023
 Response via : Initial Calibration

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

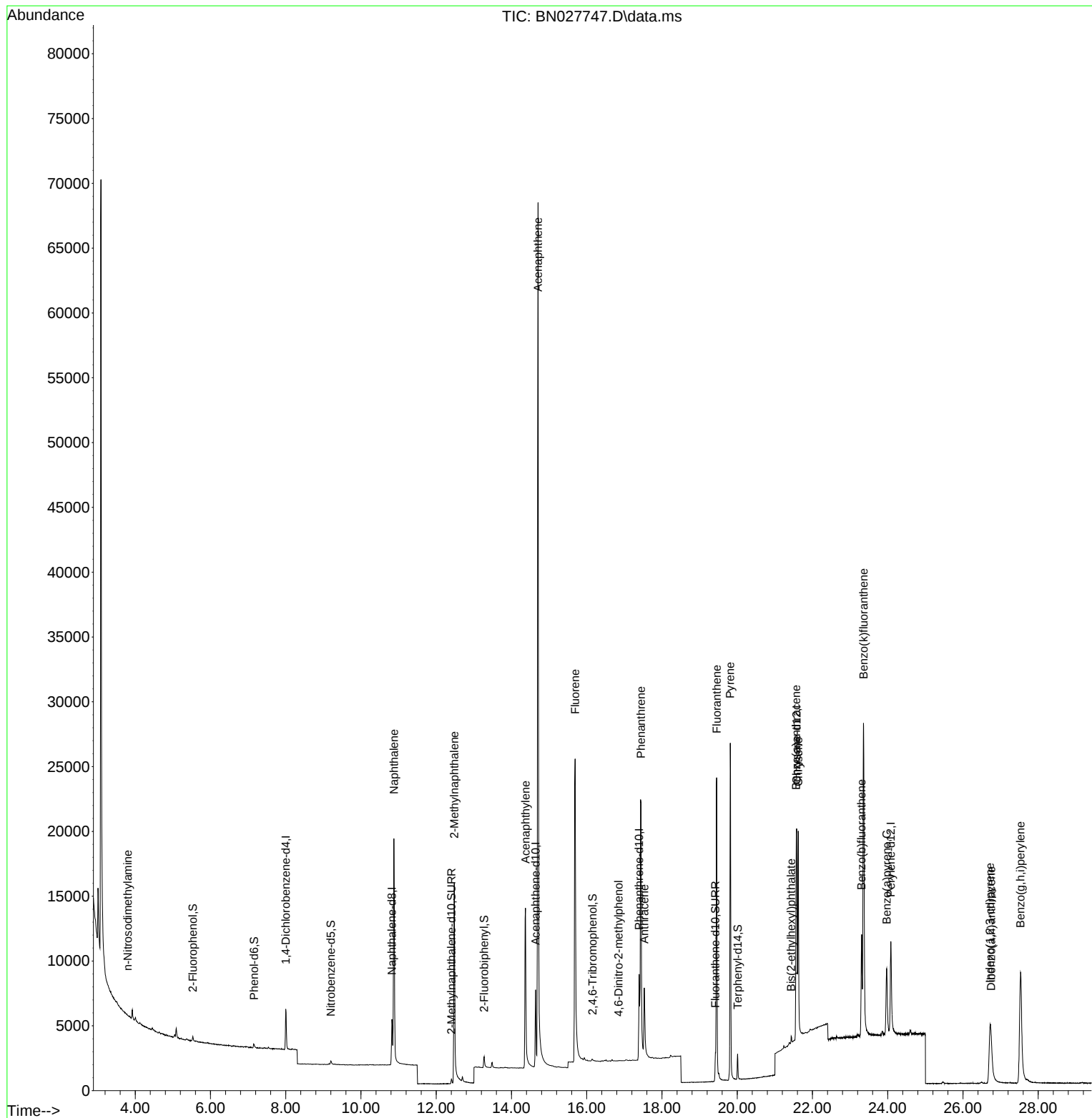
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.001	152	1672	0.400	ng	-0.01
7) Naphthalene-d8	10.821	136	5331	0.400	ng	-0.01
13) Acenaphthene-d10	14.640	164	3780	0.400	ng	0.00
19) Phenanthrene-d10	17.393	188	11017	0.400	ng	0.00
29) Chrysene-d12	21.578	240	11932	0.400	ng	# 0.00
35) Perylene-d12	24.083	264	12263	0.400	ng	0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.531	112	364	0.083	ng	-0.01
5) Phenol-d6	7.156	99	408	0.076	ng	0.00
8) Nitrobenzene-d5	9.198	82	318	0.073	ng	-0.01
11) 2-Methylnaphthalene-d10	12.404	152	611	0.078	ng	0.00
14) 2,4,6-Tribromophenol	16.152	330	107	0.061	ng	0.01
15) 2-Fluorobiphenyl	13.272	172	1074	0.083	ng	0.00
27) Fluoranthene-d10	19.421	212	2569	0.083	ng	0.00
31) Terphenyl-d14	20.011	244	2149	0.096	ng	0.00
Target Compounds						
3) n-Nitrosodimethylamine	3.798	42	53	0.022	ng	# 1
9) Naphthalene	10.874	128	24663	1.679	ng	99
12) 2-Methylnaphthalene	12.479	142	14522	1.412	ng	99
16) Acenaphthylene	14.373	152	18286	1.136	ng	99
17) Acenaphthene	14.705	154	37675	3.370	ng	100
18) Fluorene	15.693	166	24723	1.500	ng	99
20) 4,6-Dinitro-2-methylph...	16.847	198	4	0.023	ng	# 1
25) Phenanthrene	17.443	178	28340	0.884	ng	100
26) Anthracene	17.530	178	7519	0.272	ng	99
28) Fluoranthene	19.453	202	24515	0.584	ng	99
30) Pyrene	19.816	202	25328	0.622	ng	99
32) Benzo(a)anthracene	21.569	228	11704	0.274	ng	98
33) Chrysene	21.623	228	15334	0.339	ng	99
34) Bis(2-ethylhexyl)phtha...	21.435	149	651	0.032	ng	97
36) Indeno(1,2,3-cd)pyrene	26.715	276	10926	0.197	ng	97
37) Benzo(b)fluoranthene	23.306	252	10930	0.240	ng	# 81
38) Benzo(k)fluoranthene	23.355	252	38174	0.822	ng	# 95
39) Benzo(a)pyrene	23.972	252	10350	0.239	ng	# 74
40) Dibenzo(a,h)anthracene	26.750	278	5509	0.122	ng	# 78
41) Benzo(g,h,i)perylene	27.530	276	24635	0.500	ng	98

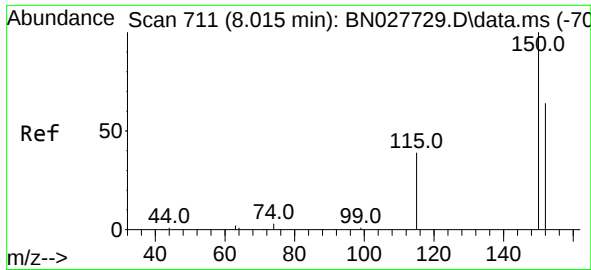
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091923\
Data File : BN027747.D
Acq On : 19 Sep 2023 12:15
Operator : MA/JU
Sample : 04346-21DL 5X
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
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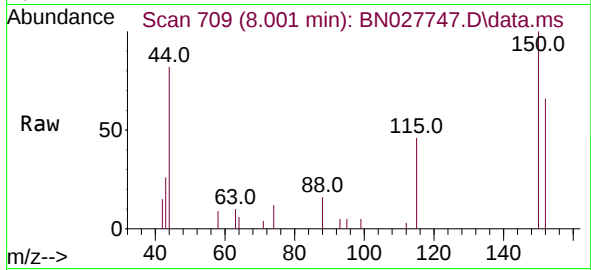
Quant Time: Sep 19 13:39:33 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091823.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Sep 18 14:40:21 2023
Response via : Initial Calibration





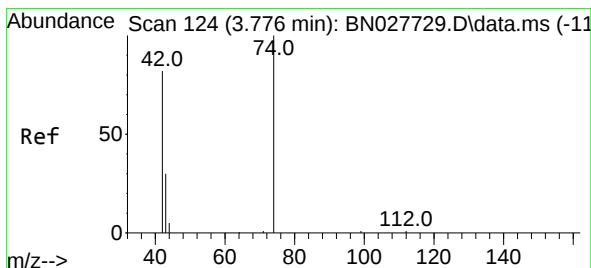
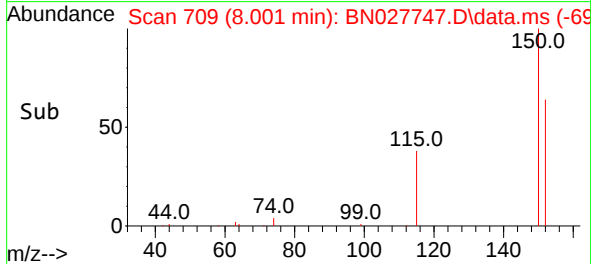
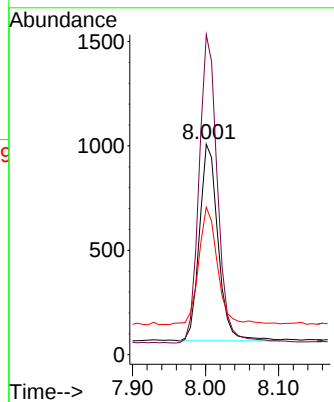
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.001 min Scan# 711
Delta R.T. -0.014 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL



Tgt Ion:152 Resp: 1672

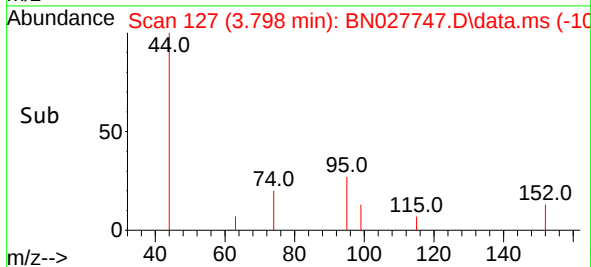
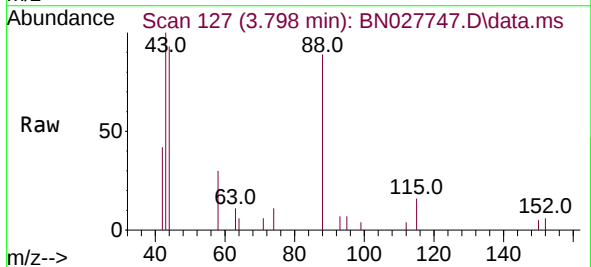
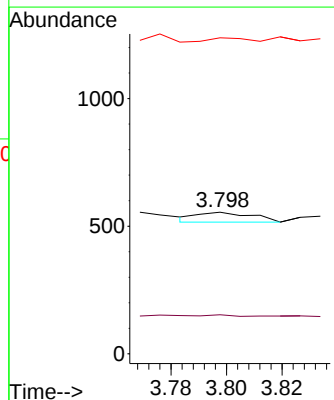
Ion	Ratio	Lower	Upper
152	100		
150	151.9	119.2	178.8
115	70.1	53.8	80.8

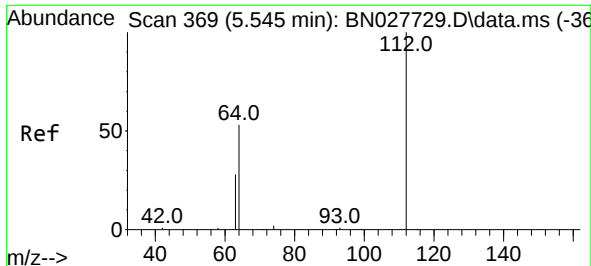


#3
n-Nitrosodimethylamine
Concen: 0.022 ng
RT: 3.798 min Scan# 127
Delta R.T. 0.029 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

Tgt Ion: 42 Resp: 53

Ion	Ratio	Lower	Upper
42	100		
74	0.0	105.8	158.8#
44	20.8	5.0	7.4#

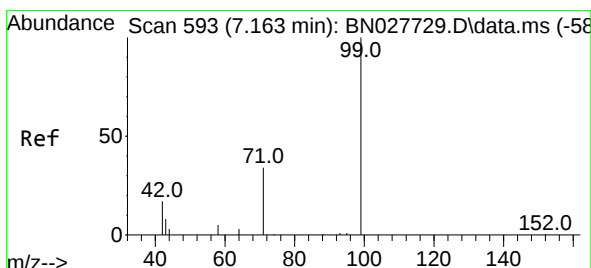
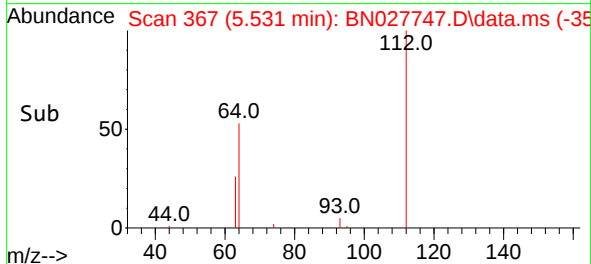
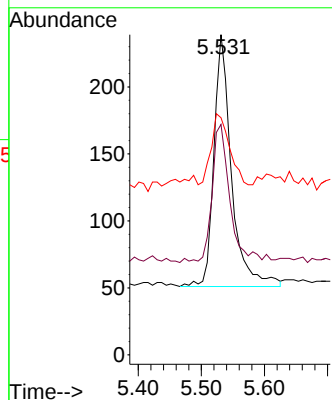
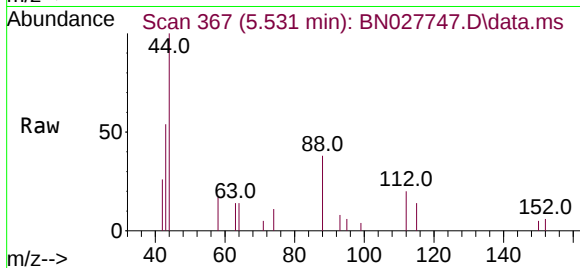




#4
2-Fluorophenol
Concen: 0.083 ng
RT: 5.531 min Scan# 30
Delta R.T. -0.014 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

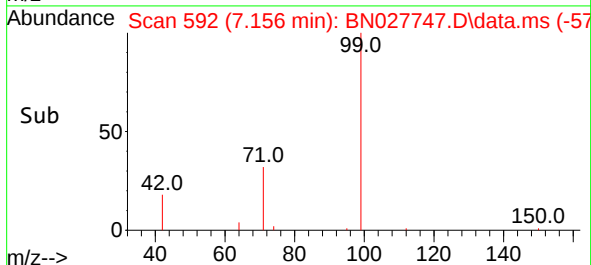
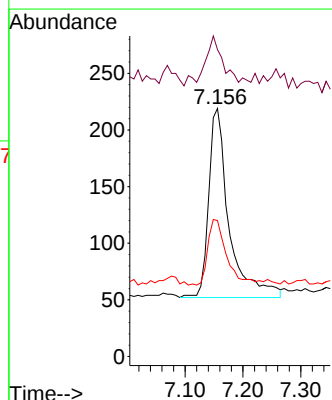
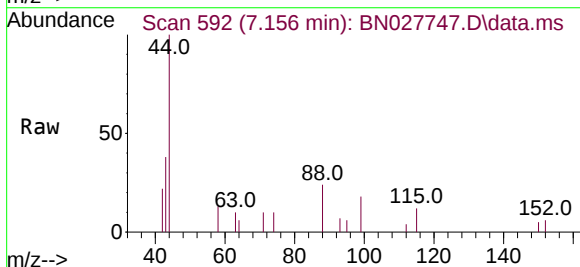
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

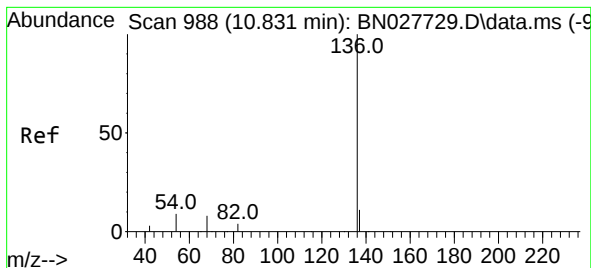
Tgt Ion:112 Resp: 364
Ion Ratio Lower Upper
112 100
64 53.6 45.0 67.6
63 28.8 24.1 36.1



#5
Phenol-d6
Concen: 0.076 ng
RT: 7.156 min Scan# 592
Delta R.T. 0.000 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

Tgt Ion: 99 Resp: 408
Ion Ratio Lower Upper
99 100
42 24.8 15.8 23.8#
71 32.6 27.3 40.9





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.821 min Scan# 9

Delta R.T. -0.011 min

Lab File: BN027747.D

Acq: 19 Sep 2023 12:15

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

Tgt Ion:136 Resp: 5331

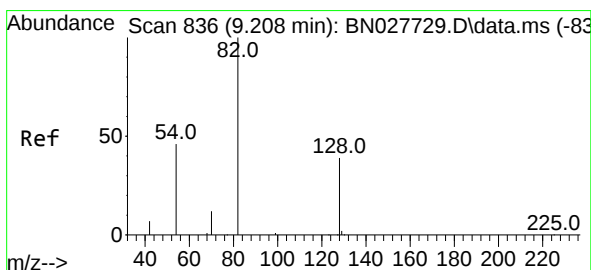
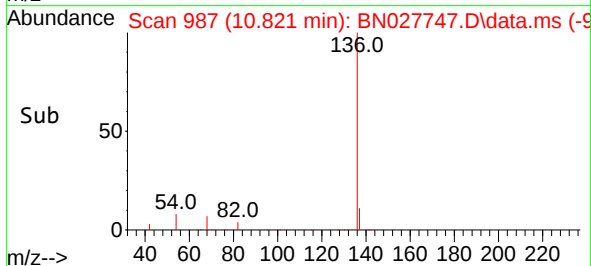
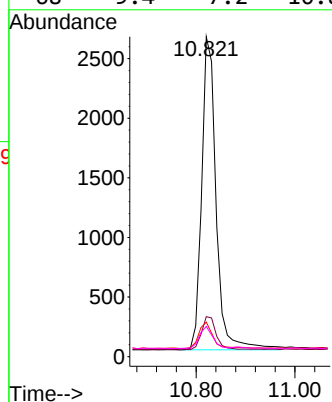
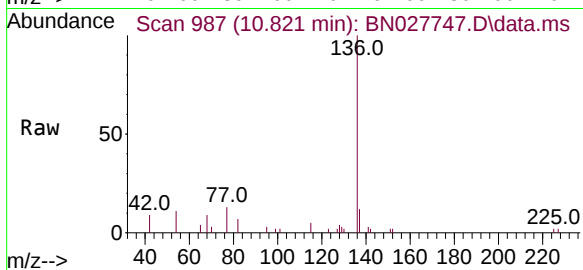
Ion Ratio Lower Upper

136 100

137 12.5 9.8 14.8

54 10.8 7.8 11.6

68 9.4 7.2 10.8



#8

Nitrobenzene-d5

Concen: 0.073 ng

RT: 9.198 min Scan# 835

Delta R.T. -0.011 min

Lab File: BN027747.D

Acq: 19 Sep 2023 12:15

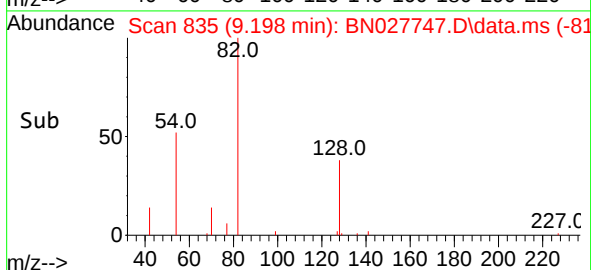
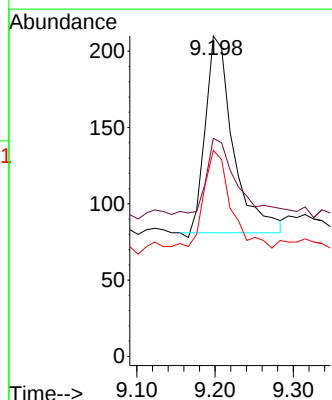
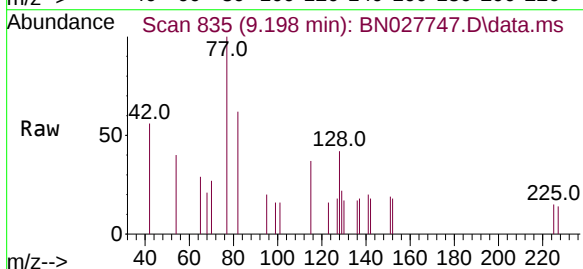
Tgt Ion: 82 Resp: 318

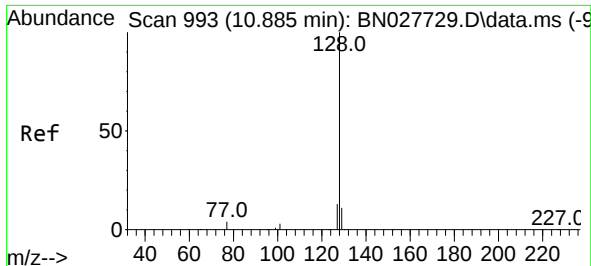
Ion Ratio Lower Upper

82 100

128 68.1 35.1 52.7#

54 64.3 35.1 52.7#

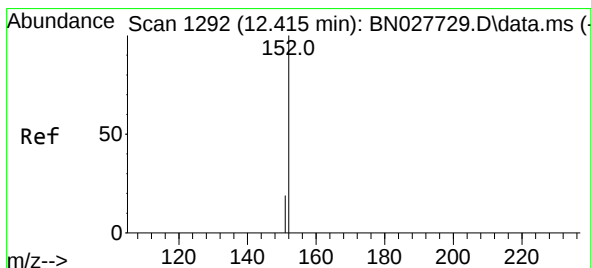
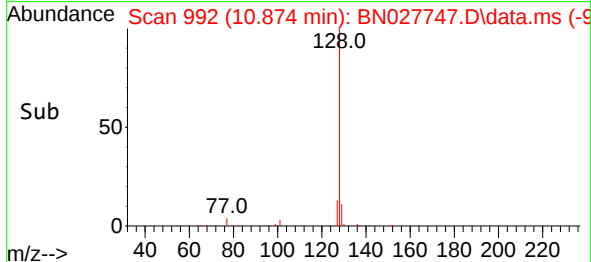
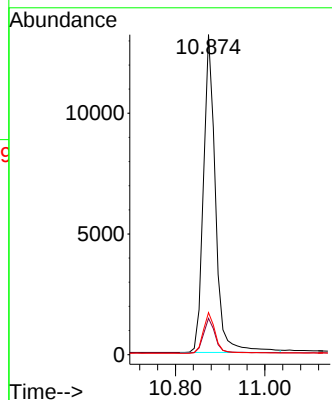
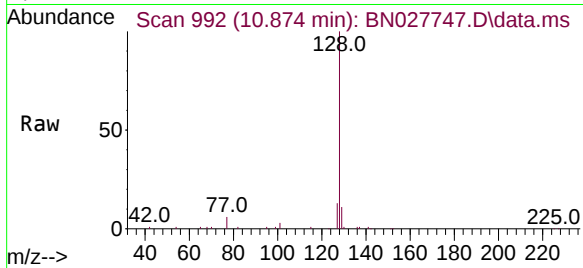




#9
Naphthalene
Concen: 1.679 ng
RT: 10.874 min Scan# 991
Delta R.T. -0.011 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

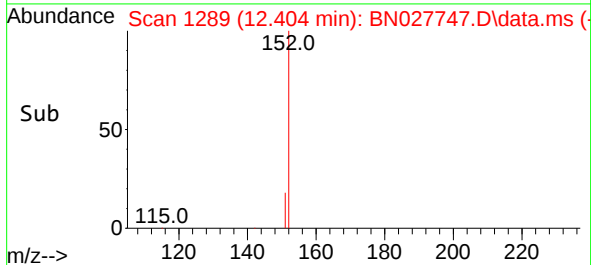
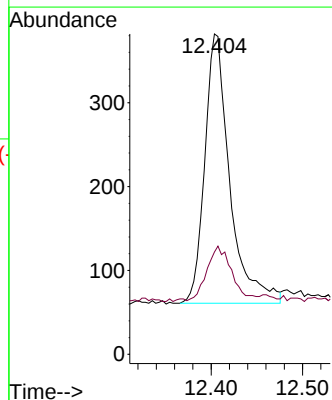
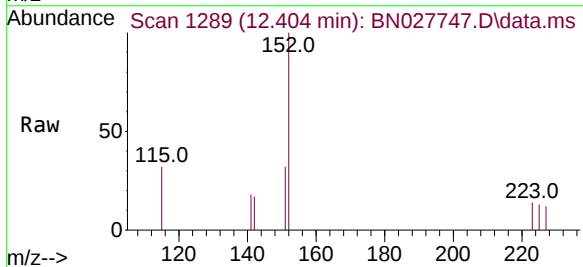
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

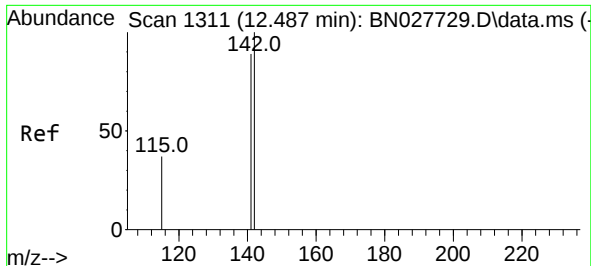
Tgt Ion:128 Resp: 24663
Ion Ratio Lower Upper
128 100
129 11.3 8.9 13.3
127 13.2 10.4 15.6



#11
2-Methylnaphthalene-d10
Concen: 0.078 ng
RT: 12.404 min Scan# 1289
Delta R.T. -0.008 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

Tgt Ion:152 Resp: 611
Ion Ratio Lower Upper
152 100
151 19.8 16.5 24.7

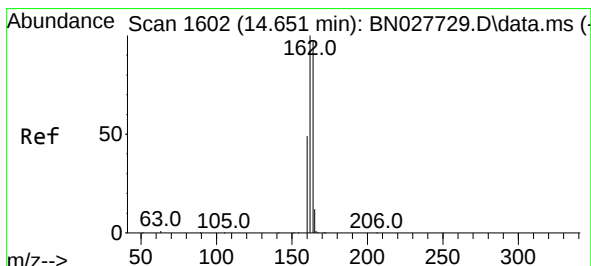
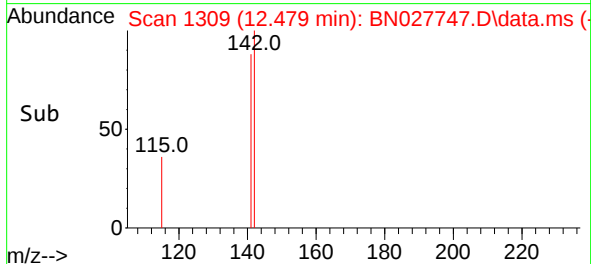
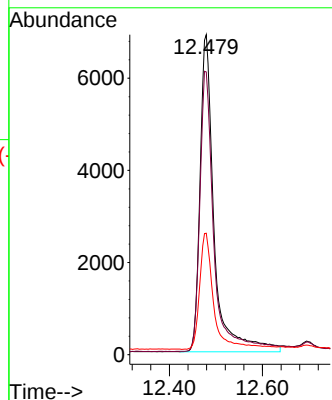
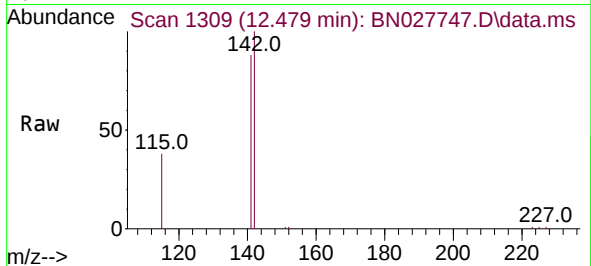




#12
2-Methylnaphthalene
Concen: 1.412 ng
RT: 12.479 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

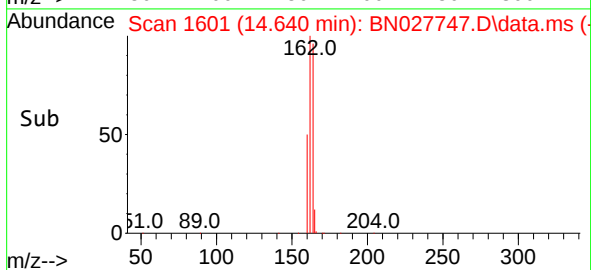
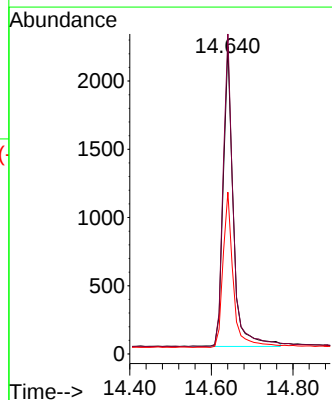
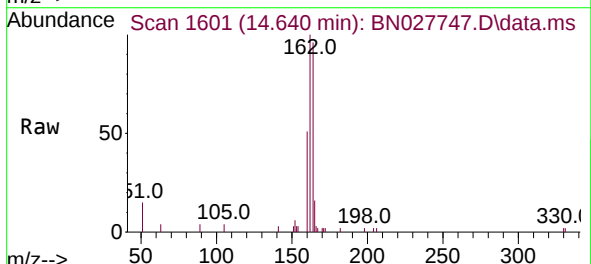
Instrument :
BNA_N
ClientSampleId :
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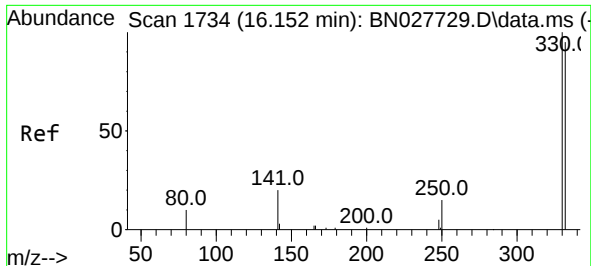
Tgt Ion:142 Resp: 14522
Ion Ratio Lower Upper
142 100
141 88.4 70.8 106.2
115 38.0 29.4 44.0



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.640 min Scan# 1601
Delta R.T. 0.000 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

Tgt Ion:164 Resp: 3780
Ion Ratio Lower Upper
164 100
162 104.0 83.4 125.2
160 52.6 41.0 61.4

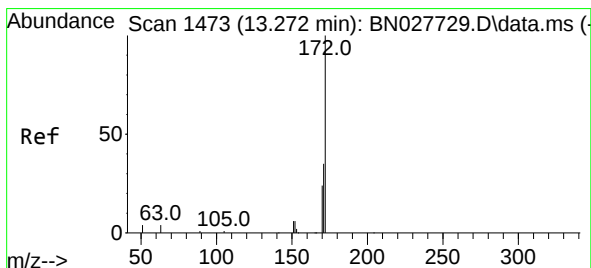
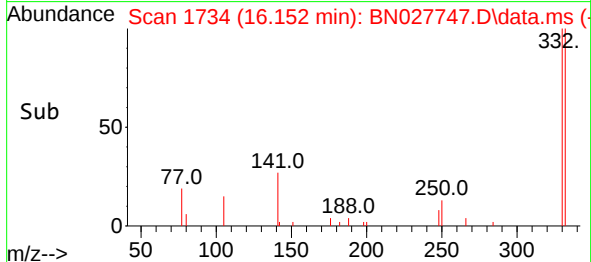
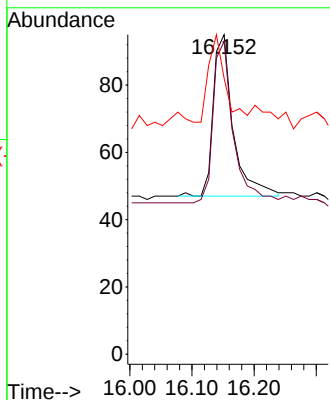
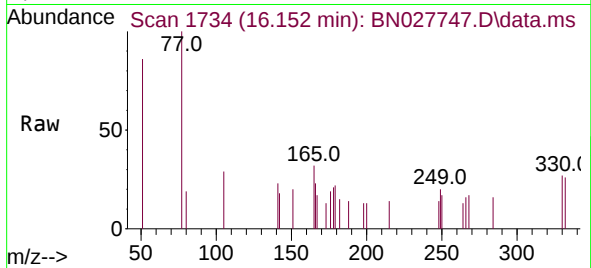




#14
2,4,6-Tribromophenol
Concen: 0.061 ng
RT: 16.152 min Scan# 1734
Delta R.T. 0.012 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

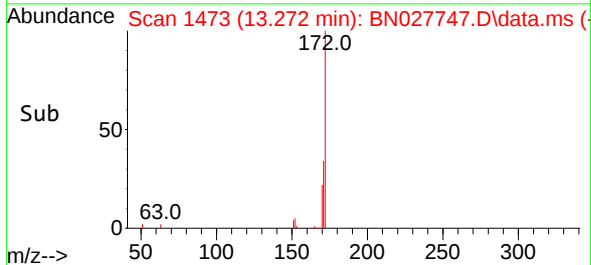
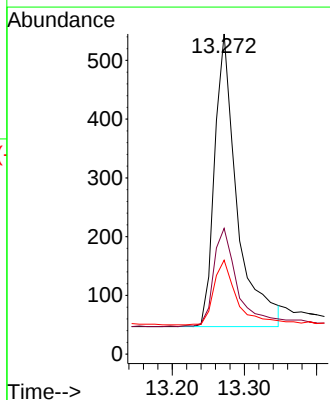
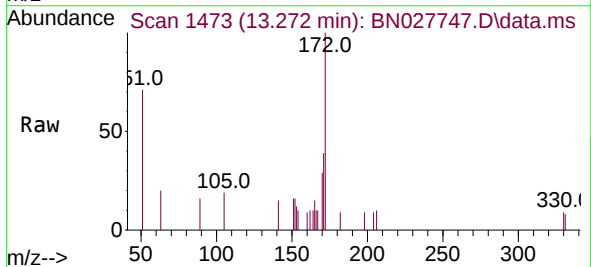
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

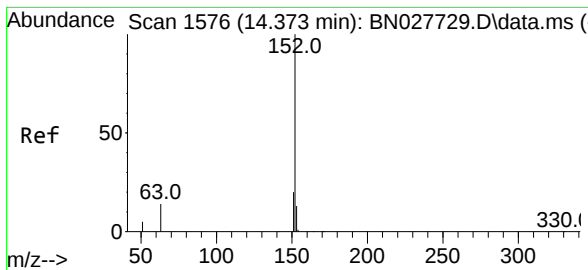
Tgt Ion:330 Resp: 107
Ion Ratio Lower Upper
330 100
332 100.9 76.6 115.0
141 44.9 38.2 57.2



#15
2-Fluorobiphenyl
Concen: 0.083 ng
RT: 13.272 min Scan# 1473
Delta R.T. 0.000 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

Tgt Ion:172 Resp: 1074
Ion Ratio Lower Upper
172 100
171 39.3 27.6 41.4
170 29.4 18.7 28.1#

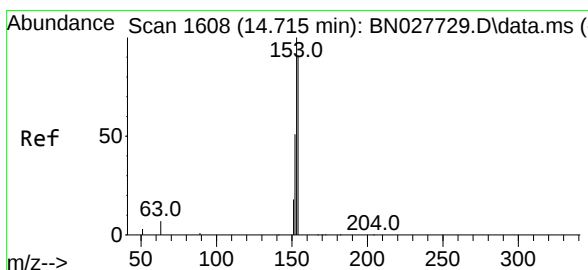
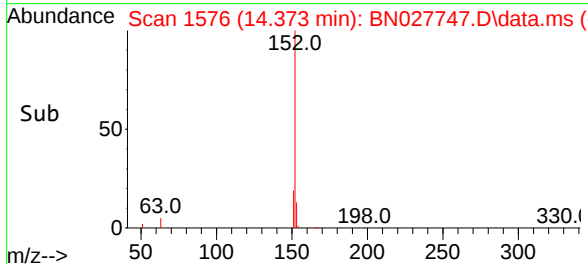
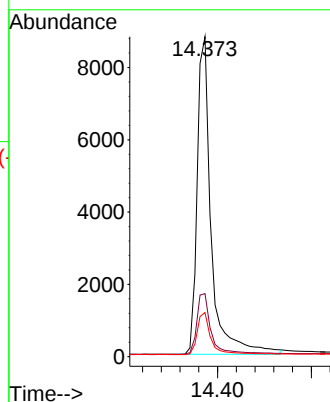
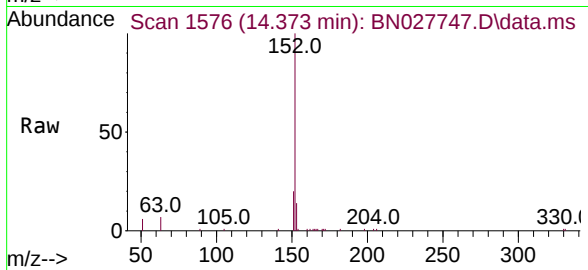




#16
Acenaphthylene
Concen: 1.136 ng
RT: 14.373 min Scan# 1576
Delta R.T. 0.000 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

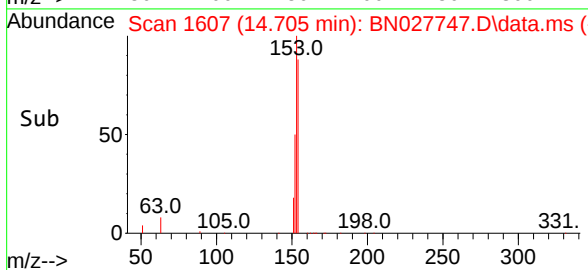
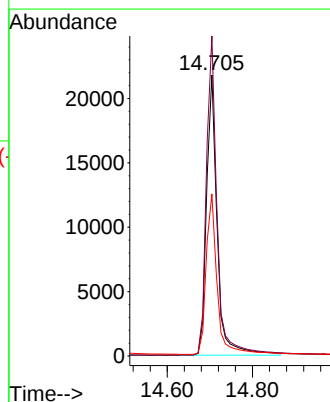
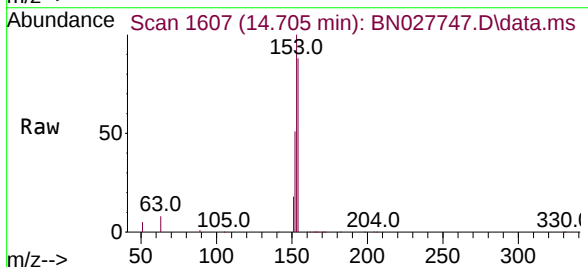
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

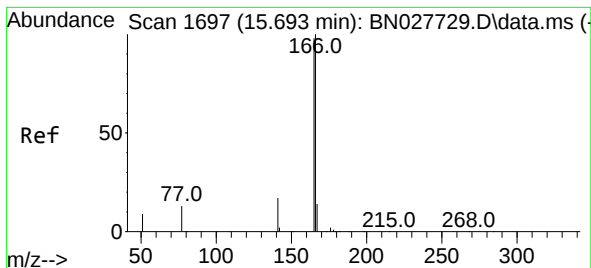
Tgt Ion:152 Resp: 18286
Ion Ratio Lower Upper
152 100
151 19.9 15.6 23.4
153 13.2 10.3 15.5



#17
Acenaphthene
Concen: 3.370 ng
RT: 14.705 min Scan# 1607
Delta R.T. 0.000 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

Tgt Ion:154 Resp: 37675
Ion Ratio Lower Upper
154 100
153 114.6 92.0 138.0
152 59.0 47.0 70.6





#18

Fluorene

Concen: 1.500 ng

RT: 15.693 min Scan# 1697

Delta R.T. 0.000 min

Lab File: BN027747.D

Acq: 19 Sep 2023 12:15

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

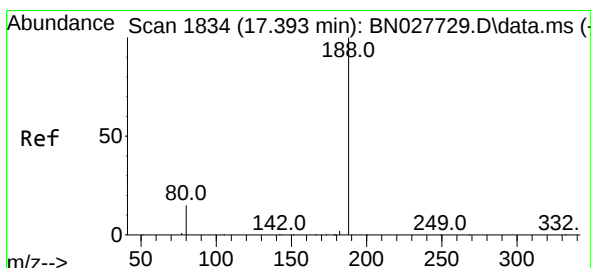
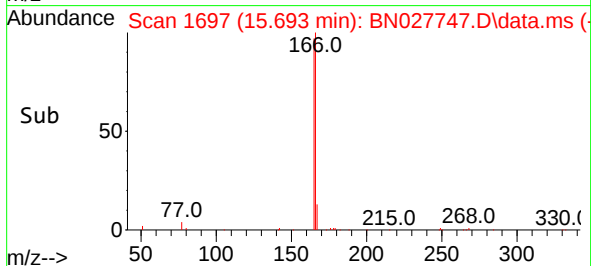
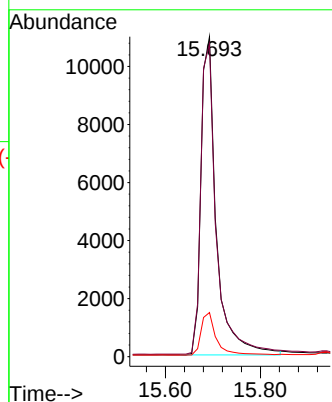
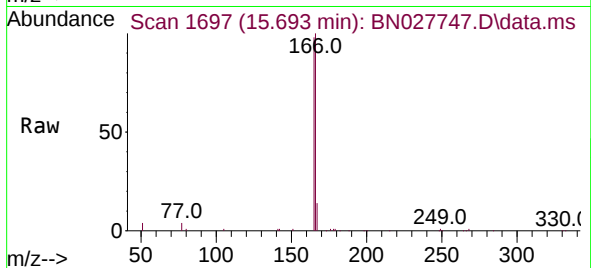
Tgt Ion:166 Resp: 24723

Ion Ratio Lower Upper

166 100

165 98.6 78.4 117.6

167 13.3 10.7 16.1



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.393 min Scan# 1834

Delta R.T. 0.000 min

Lab File: BN027747.D

Acq: 19 Sep 2023 12:15

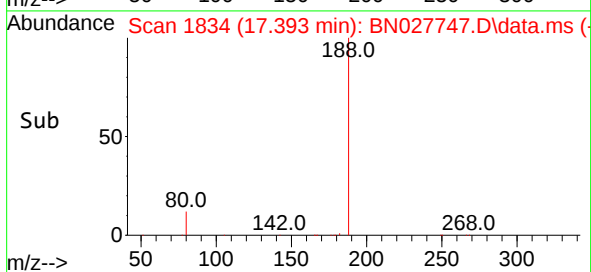
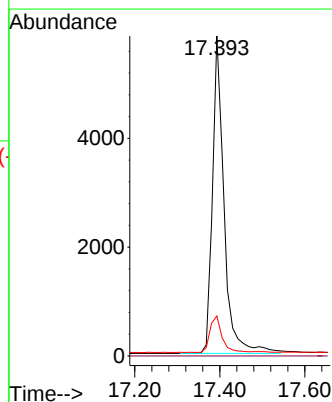
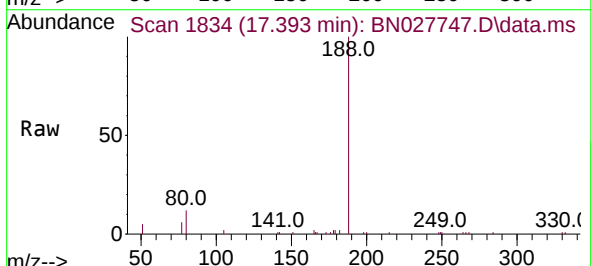
Tgt Ion:188 Resp: 11017

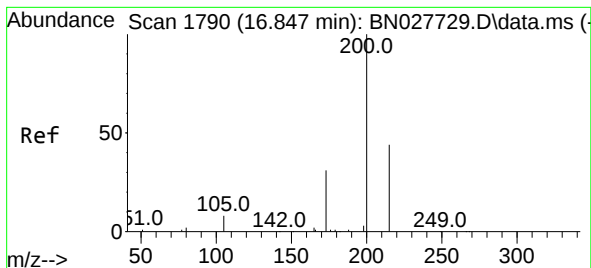
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.5 9.5 14.3

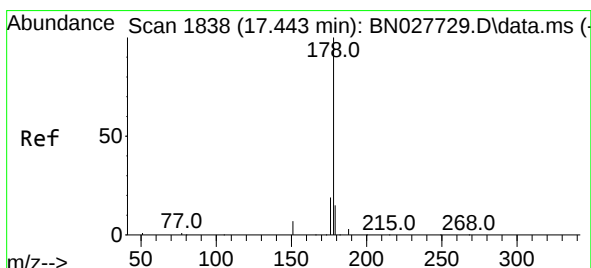
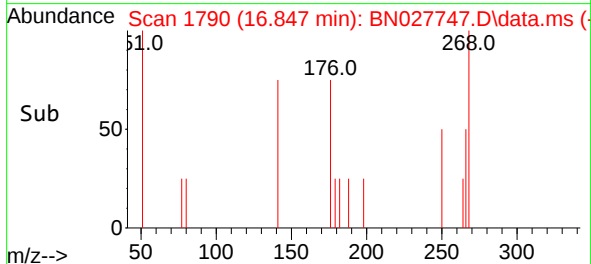
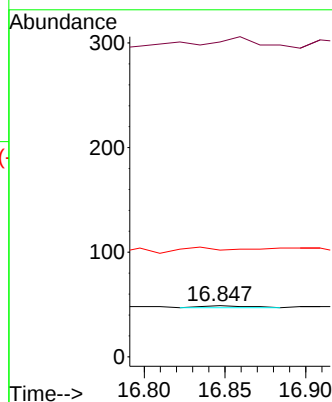
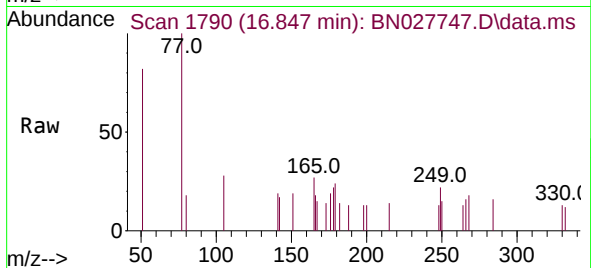




#20
4,6-Dinitro-2-methylphenol
Concen: 0.023 ng
RT: 16.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

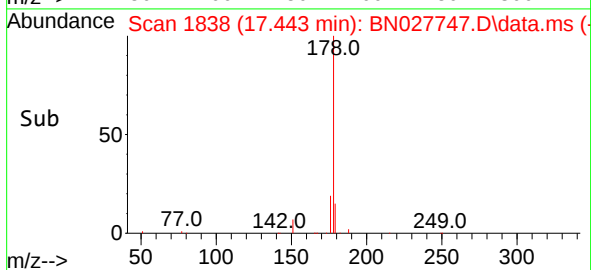
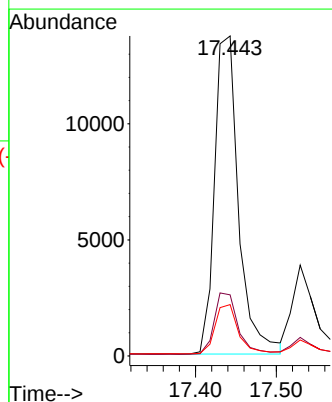
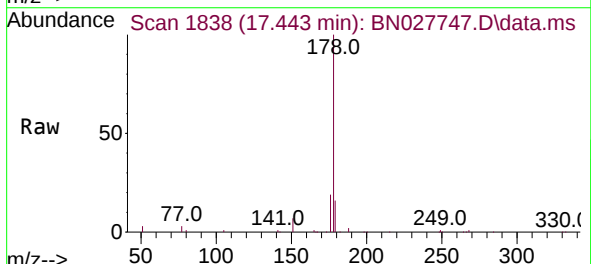
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

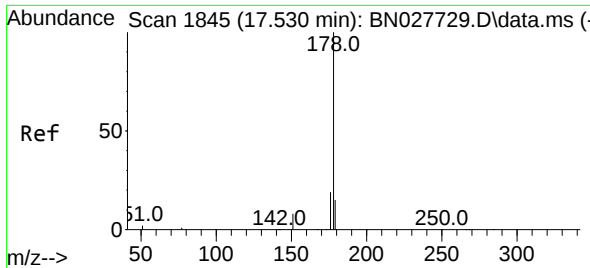
Tgt Ion:198 Resp: 4
Ion Ratio Lower Upper
198 100
51 614.3 30.0 45.0#
105 208.2 145.9 218.9



#25
Phenanthrene
Concen: 0.884 ng
RT: 17.443 min Scan# 1838
Delta R.T. 0.012 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

Tgt Ion:178 Resp: 28340
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.3 12.2 18.2

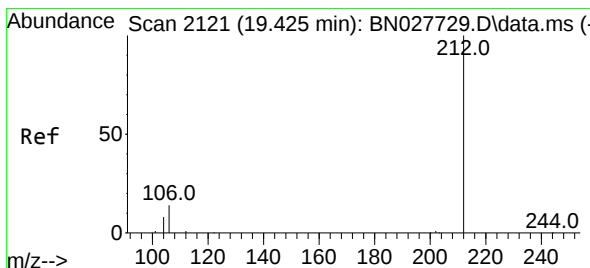
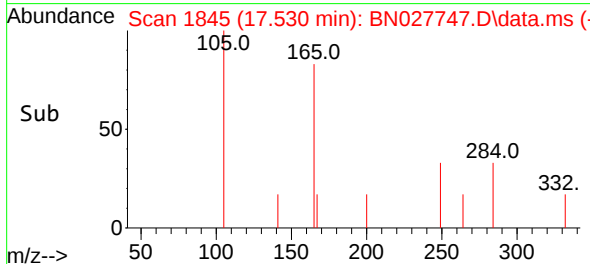
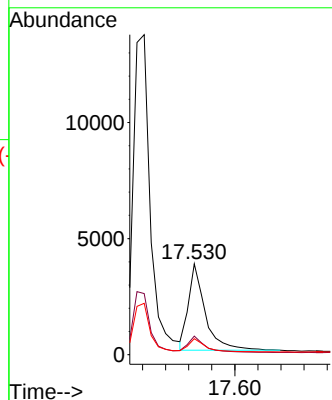
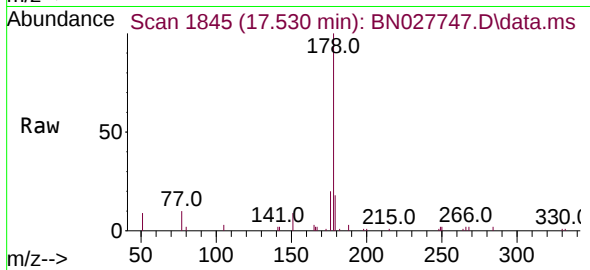




#26
 Anthracene
 Concen: 0.272 ng
 RT: 17.530 min Scan# 1845
 Delta R.T. 0.000 min
 Lab File: BN027747.D
 Acq: 19 Sep 2023 12:15

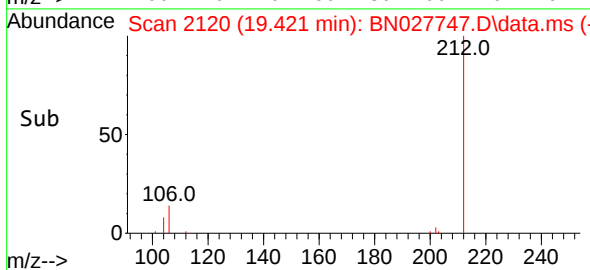
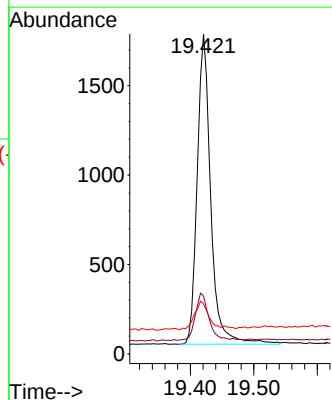
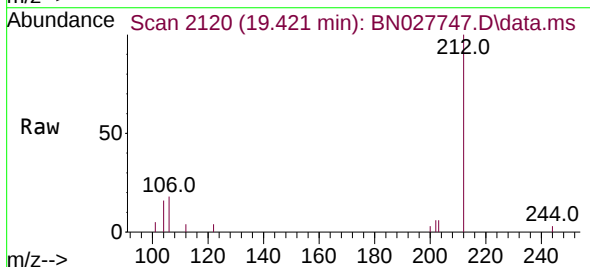
Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

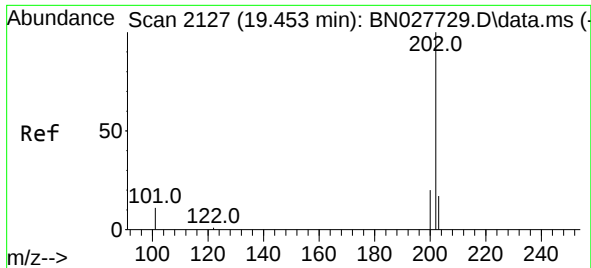
Tgt Ion:178 Resp: 7519
 Ion Ratio Lower Upper
 178 100
 176 19.5 14.9 22.3
 179 15.4 12.2 18.2



#27
 Fluoranthene-d10
 Concen: 0.083 ng
 RT: 19.421 min Scan# 2120
 Delta R.T. 0.000 min
 Lab File: BN027747.D
 Acq: 19 Sep 2023 12:15

Tgt Ion:212 Resp: 2569
 Ion Ratio Lower Upper
 212 100
 106 14.9 11.9 17.9
 104 9.4 6.7 10.1

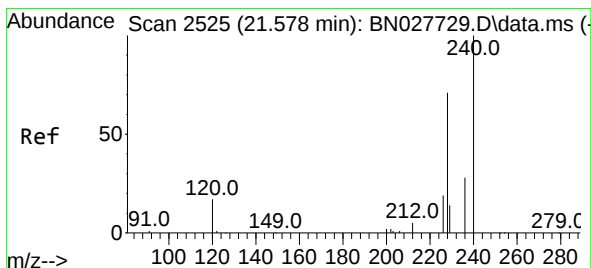
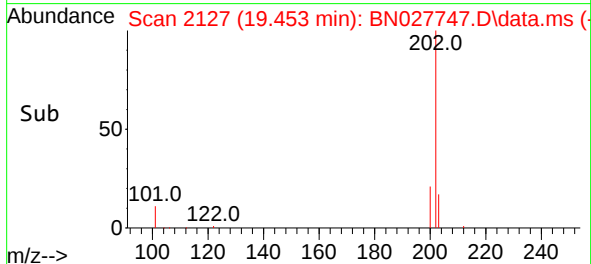
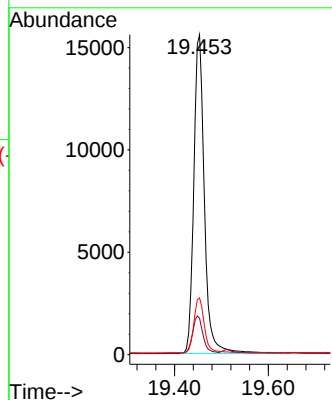
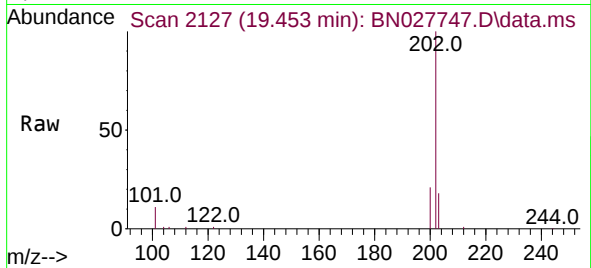




#28
Fluoranthene
Concen: 0.584 ng
RT: 19.453 min Scan# 2127
Delta R.T. 0.005 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

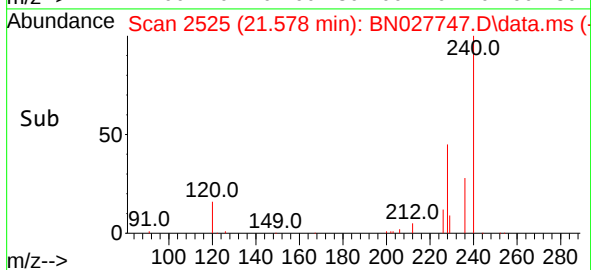
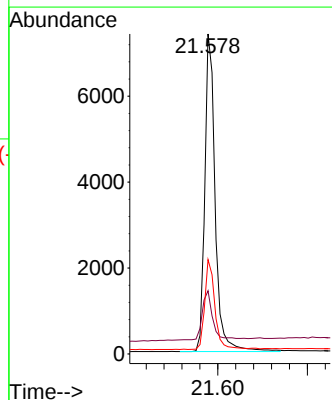
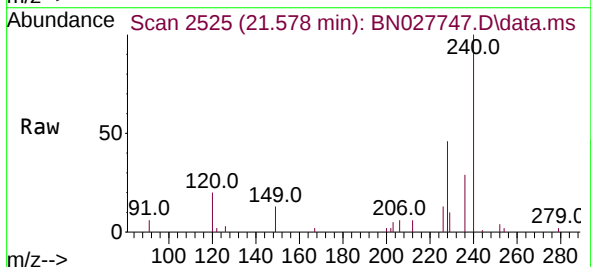
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

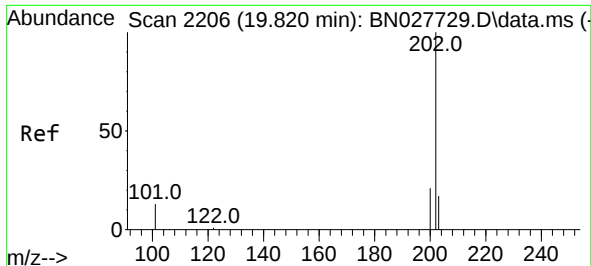
Tgt Ion:202 Resp: 24515
Ion Ratio Lower Upper
202 100
101 11.4 9.5 14.3
203 17.3 13.8 20.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.578 min Scan# 2525
Delta R.T. 0.000 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

Tgt Ion:240 Resp: 11932
Ion Ratio Lower Upper
240 100
120 19.8 10.7 16.1#
236 29.5 22.4 33.6

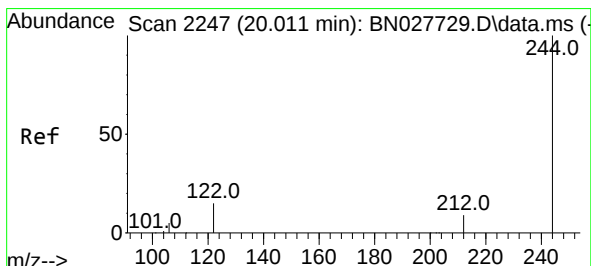
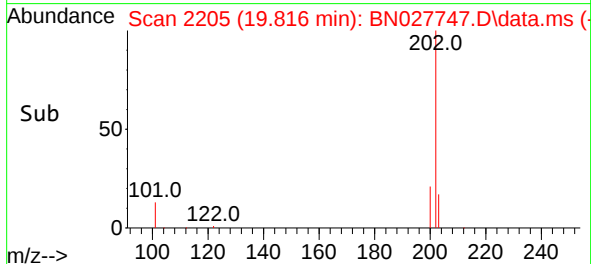
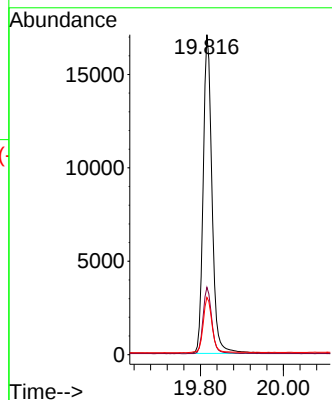
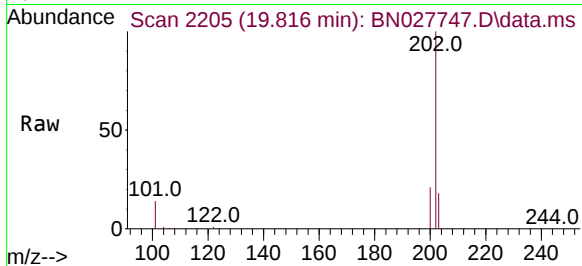




#30
 Pyrene
 Concen: 0.622 ng
 RT: 19.816 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN027747.D
 Acq: 19 Sep 2023 12:15

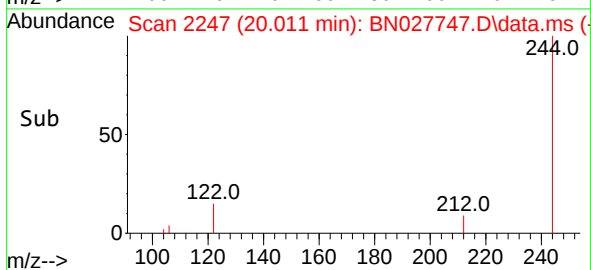
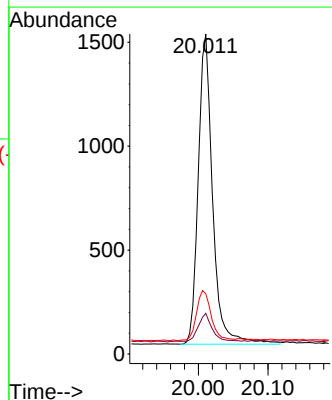
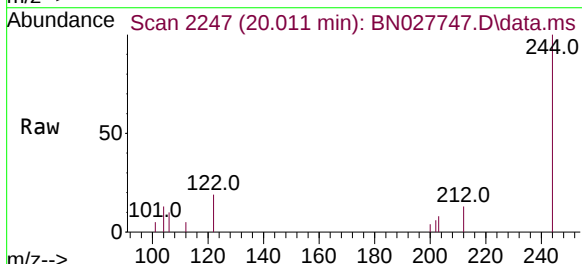
Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

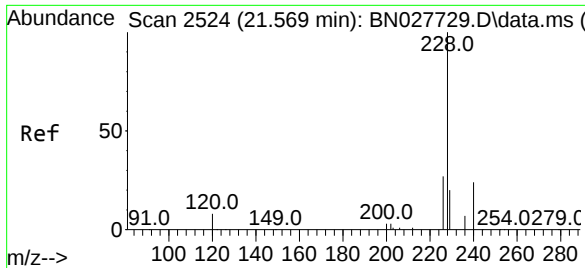
Tgt Ion:202 Resp: 25328
 Ion Ratio Lower Upper
 202 100
 200 20.8 16.8 25.2
 203 17.4 14.2 21.4



#31
 Terphenyl-d14
 Concen: 0.096 ng
 RT: 20.011 min Scan# 2247
 Delta R.T. 0.005 min
 Lab File: BN027747.D
 Acq: 19 Sep 2023 12:15

Tgt Ion:244 Resp: 2149
 Ion Ratio Lower Upper
 244 100
 212 12.7 7.0 10.4#
 122 18.8 12.7 19.1

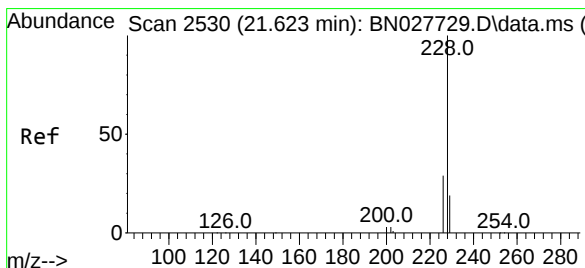
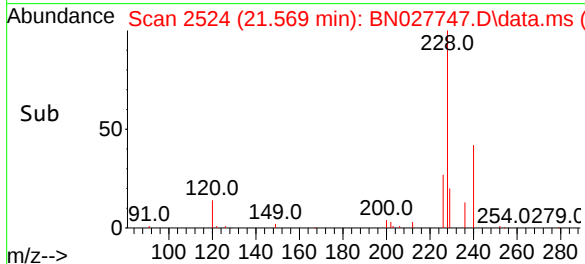
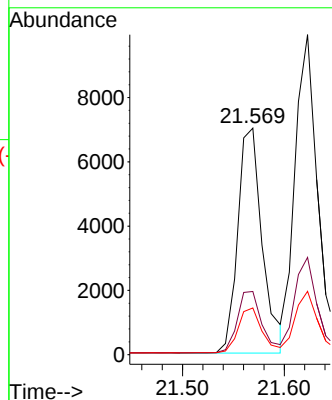
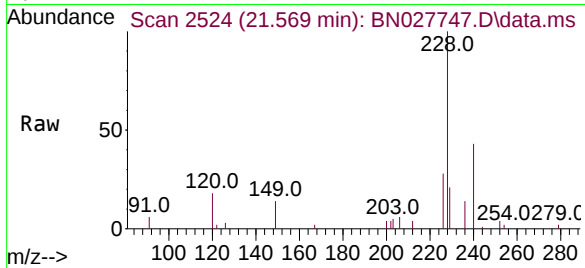




#32
Benzo(a)anthracene
Concen: 0.274 ng
RT: 21.569 min Scan# 21569
Delta R.T. 0.009 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

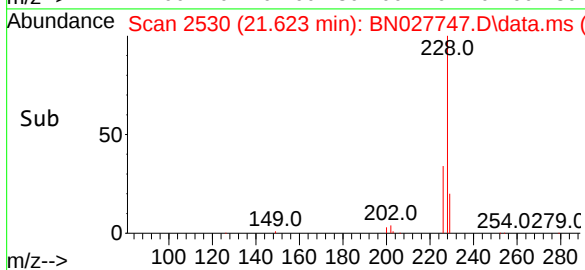
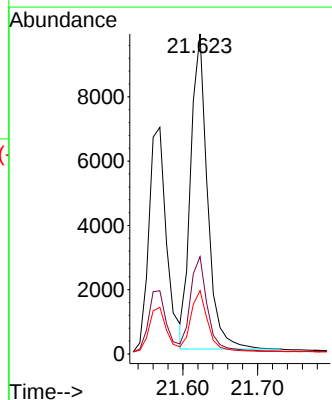
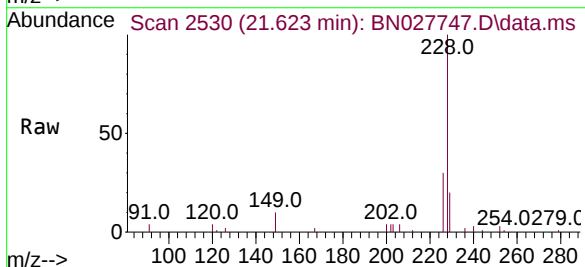
Instrument :
BNA_N
ClientSampleId :
RR-PAH-WPDL

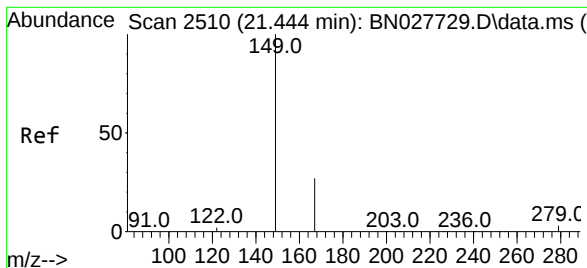
Tgt Ion:228 Resp: 11704
Ion Ratio Lower Upper
228 100
226 27.9 21.4 32.0
229 20.6 15.8 23.8



#33
Chrysene
Concen: 0.339 ng
RT: 21.623 min Scan# 2530
Delta R.T. 0.009 min
Lab File: BN027747.D
Acq: 19 Sep 2023 12:15

Tgt Ion:228 Resp: 15334
Ion Ratio Lower Upper
228 100
226 30.4 24.1 36.1
229 19.8 15.6 23.4

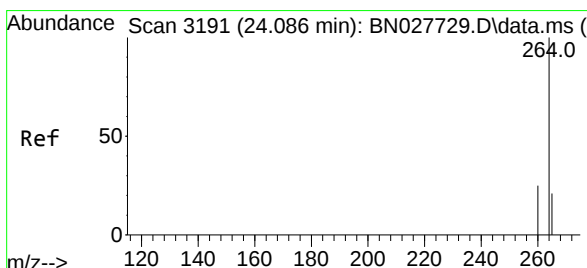
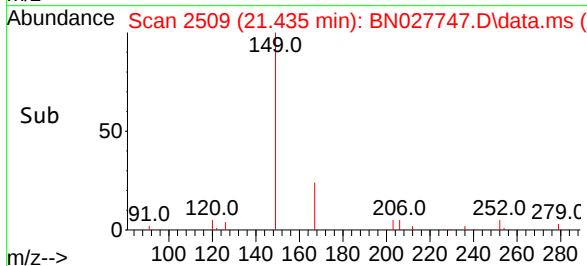
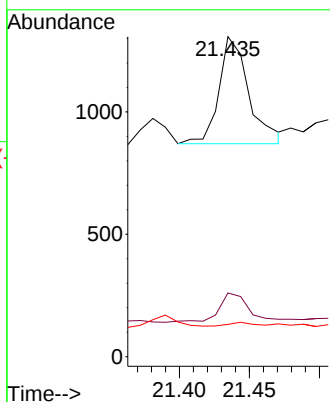
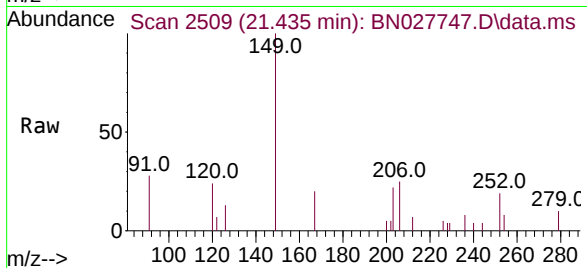




#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.032 ng
 RT: 21.435 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN027747.D
 Acq: 19 Sep 2023 12:15

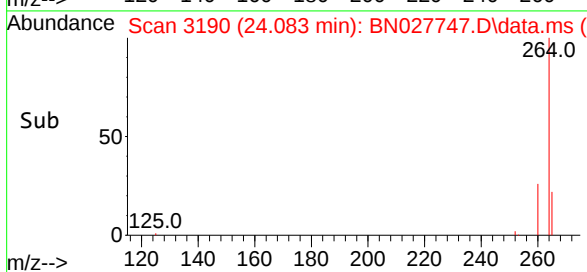
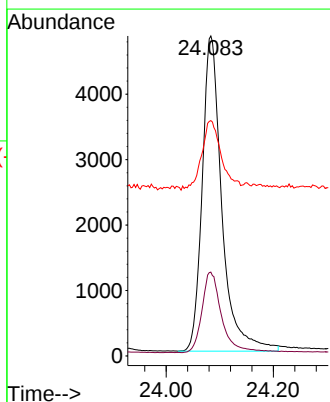
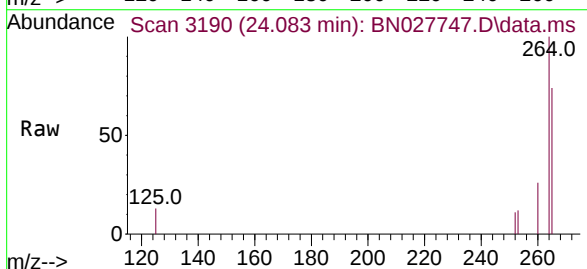
Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

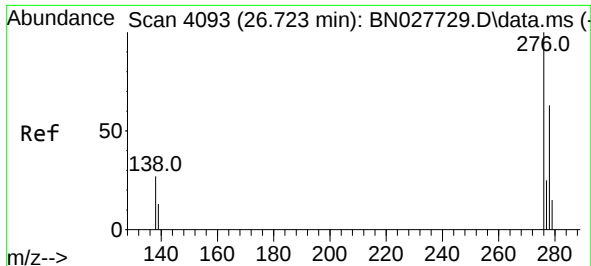
Tgt Ion:149 Resp: 651
 Ion Ratio Lower Upper
 149 100
 167 28.7 21.5 32.3
 279 2.9 2.3 3.5



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 24.083 min Scan# 3190
 Delta R.T. 0.012 min
 Lab File: BN027747.D
 Acq: 19 Sep 2023 12:15

Tgt Ion:264 Resp: 12263
 Ion Ratio Lower Upper
 264 100
 260 26.2 20.9 31.3
 265 73.6 56.6 85.0

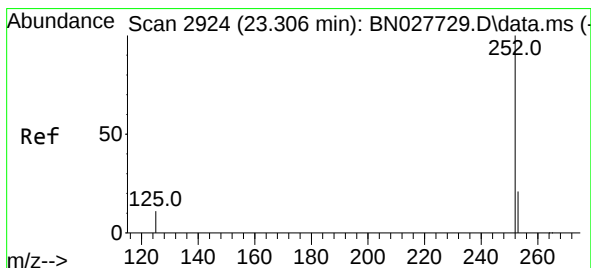
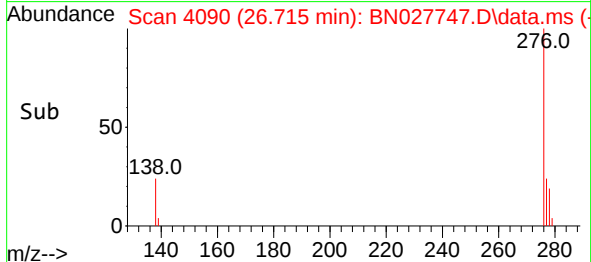
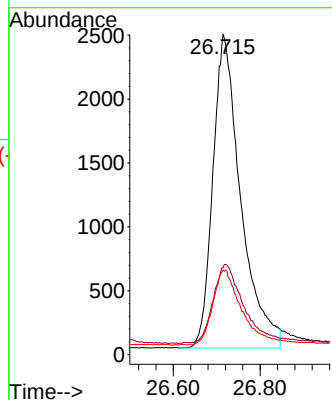
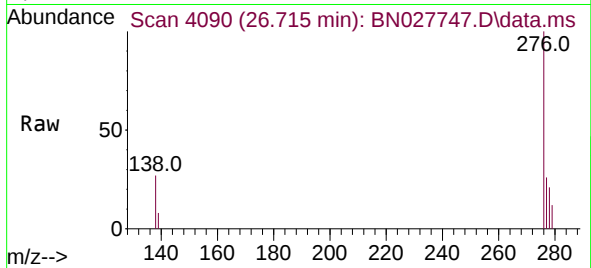




#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.197 ng
 RT: 26.715 min Scan# 4093
 Delta R.T. 0.020 min
 Lab File: BN027747.D
 Acq: 19 Sep 2023 12:15

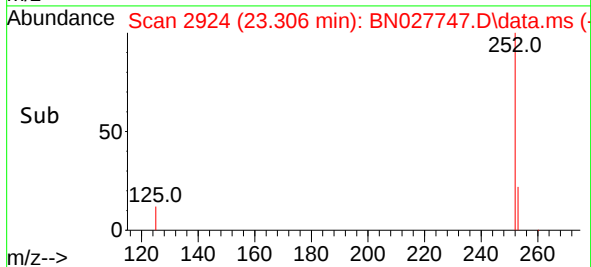
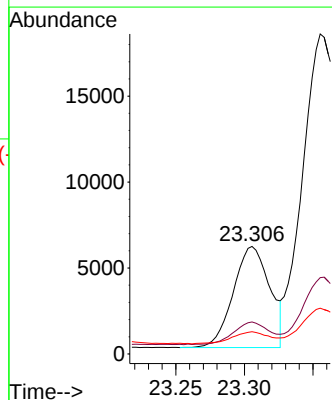
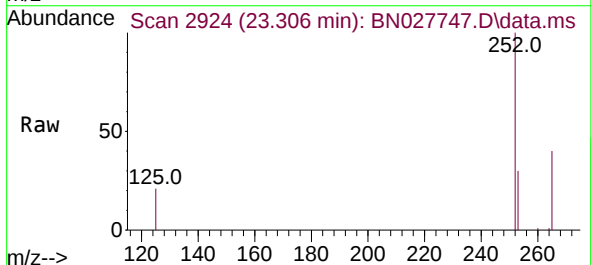
Instrument :
 BNA_N
 ClientSampleId :
 RR-PAH-WPDL

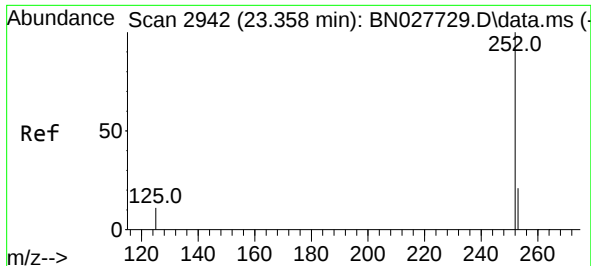
Tgt Ion:276 Resp: 10926
 Ion Ratio Lower Upper
 276 100
 138 26.6 23.4 35.0
 277 24.7 19.9 29.9



#37
 Benzo(b)fluoranthene
 Concen: 0.240 ng
 RT: 23.306 min Scan# 2924
 Delta R.T. 0.009 min
 Lab File: BN027747.D
 Acq: 19 Sep 2023 12:15

Tgt Ion:252 Resp: 10930
 Ion Ratio Lower Upper
 252 100
 253 29.8 17.6 26.4#
 125 20.6 9.2 13.8#





#38

Benzo(k)fluoranthene

Concen: 0.822 ng

RT: 23.355 min Scan# 2941

Delta R.T. 0.009 min

Lab File: BN027747.D

Acq: 19 Sep 2023 12:15

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

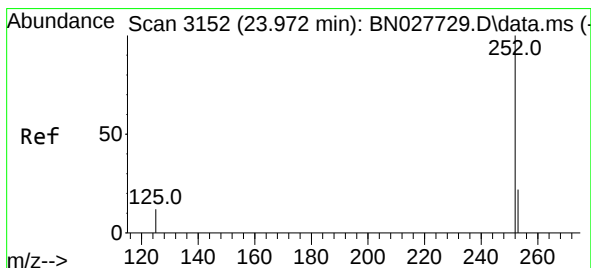
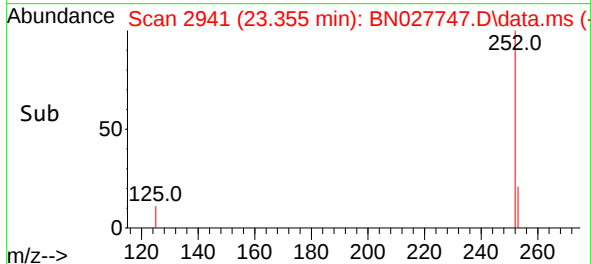
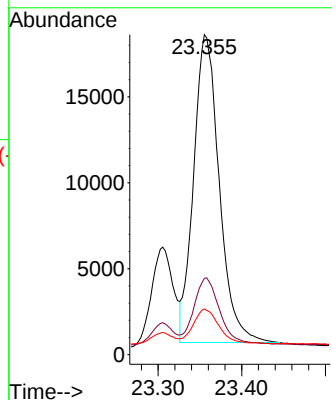
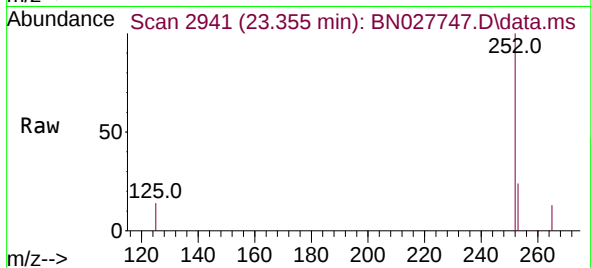
Tgt Ion:252 Resp: 38174

Ion Ratio Lower Upper

252 100

253 23.9 17.5 26.3

125 14.3 9.3 13.9#



#39

Benzo(a)pyrene

Concen: 0.239 ng

RT: 23.972 min Scan# 3152

Delta R.T. 0.015 min

Lab File: BN027747.D

Acq: 19 Sep 2023 12:15

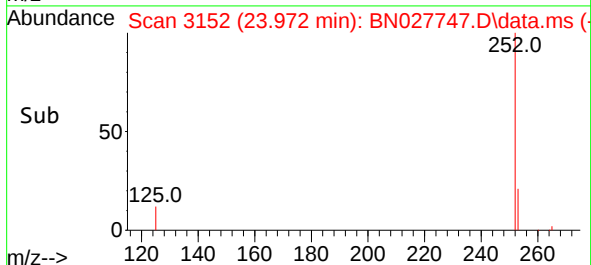
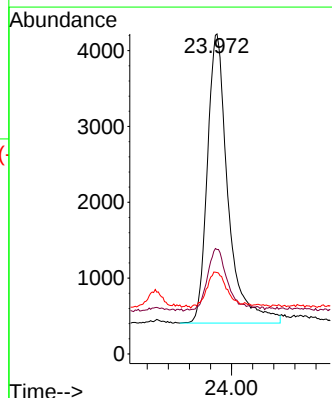
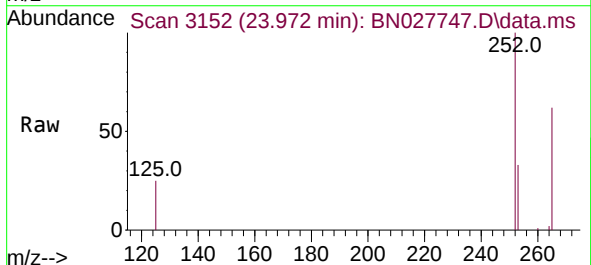
Tgt Ion:252 Resp: 10350

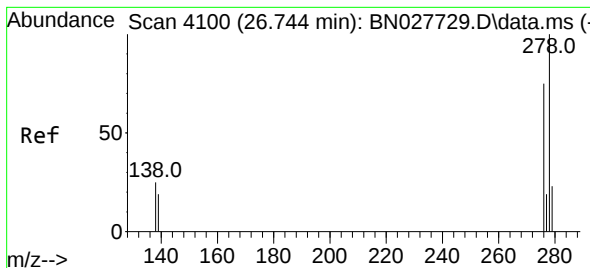
Ion Ratio Lower Upper

252 100

253 32.6 17.6 26.4#

125 25.5 10.2 15.4#





#40

Dibenzo(a,h)anthracene

Concen: 0.122 ng

RT: 26.750 min Scan# 41

Delta R.T. 0.029 min

Lab File: BN027747.D

Acq: 19 Sep 2023 12:15

Instrument :

BNA_N

ClientSampleId :

RR-PAH-WPDL

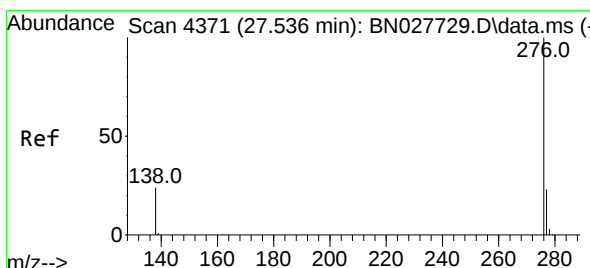
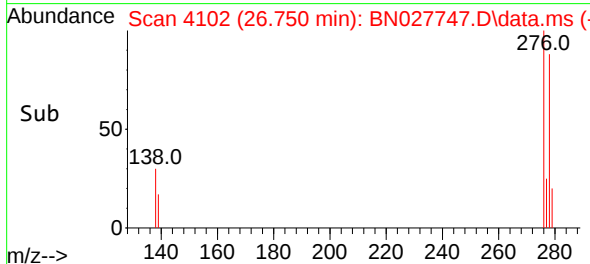
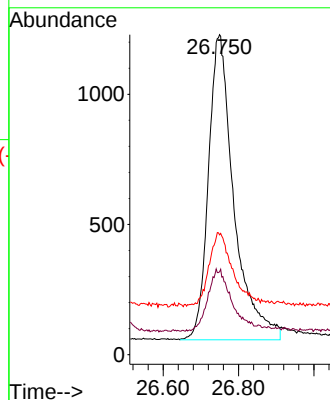
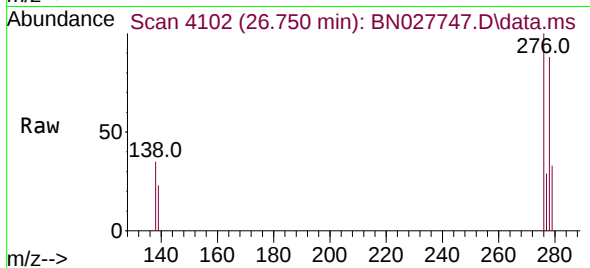
Tgt Ion:278 Resp: 5509

Ion Ratio Lower Upper

278 100

139 25.9 15.4 23.2#

279 37.4 19.0 28.6#



#41

Benzo(g,h,i)perylene

Concen: 0.500 ng

RT: 27.530 min Scan# 4369

Delta R.T. 0.012 min

Lab File: BN027747.D

Acq: 19 Sep 2023 12:15

Tgt Ion:276 Resp: 24635

Ion Ratio Lower Upper

276 100

277 24.4 19.0 28.4

138 26.5 20.2 30.4

