

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092023\
 Data File : BN027774.D
 Acq On : 20 Sep 2023 21:40
 Operator : MA/JU
 Sample : 04367-04 20X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PILE-4

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/21/2023
 Supervised By :mohammad ahmed 09/21/2023

Quant Time: Sep 21 04:23:39 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Sep 20 13:45:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.008	152	3755	0.400	ng	0.00
7) Naphthalene-d8	10.831	136	11832	0.400	ng	0.00
13) Acenaphthene-d10	14.641	164	6375	0.400	ng	0.00
19) Phenanthrene-d10	17.393	188	16245	0.400	ng	0.00
29) Chrysene-d12	21.569	240	17857	0.400	ng	# 0.00
35) Perylene-d12	24.066	264	19007	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.538	112	133	0.014	ng	0.00
5) Phenol-d6	7.163	99	140	0.012	ng	0.00
8) Nitrobenzene-d5	9.209	82	215	0.023	ng	0.00
11) 2-Methylnaphthalene-d10	12.408	152	181	0.010	ng	0.00
14) 2,4,6-Tribromophenol	16.140	330	28	0.010	ng	0.00
15) 2-Fluorobiphenyl	13.272	172	287	0.013	ng	0.00
27) Fluoranthene-d10	19.416	212	587	0.014	ng	0.00
31) Terphenyl-d14	20.001	244	709	0.021	ng	0.00
Target Compounds						
9) Naphthalene	10.885	128	2011	0.061	ng	# 89
12) 2-Methylnaphthalene	12.483	142	673	0.030	ng	# 85
16) Acenaphthylene	14.373	152	10236	0.376	ng	99
17) Acenaphthene	14.705	154	1734	0.090	ng	99
18) Fluorene	15.693	166	2764	0.099	ng	100
25) Phenanthrene	17.430	178	57595	1.212	ng	100
26) Anthracene	17.530	178	19706	0.484	ng	# 95
28) Fluoranthene	19.449	202	163523	2.800	ng	100
30) Pyrene	19.816	202	163545	2.549	ng	99
32) Benzo(a)anthracene	21.551	228	96452	1.556	ng	98
33) Chrysene	21.614	228	89386	1.310	ng	96
34) Bis(2-ethylhexyl)phtha...	21.426	149	3140	0.114	ng	# 87
36) Indeno(1,2,3-cd)pyrene	26.683	276	56859	0.703	ng	94
37) Benzo(b)fluoranthene	23.294	252	127390	1.695	ng	97
38) Benzo(k)fluoranthene	23.341	252	43339m	0.569	ng	
39) Benzo(a)pyrene	23.955	252	90741m	1.329	ng	
40) Dibenzo(a,h)anthracene	26.700	278	13700m	0.208	ng	
41) Benzo(g,h,i)perylene	27.507	276	59996	0.822	ng	99

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

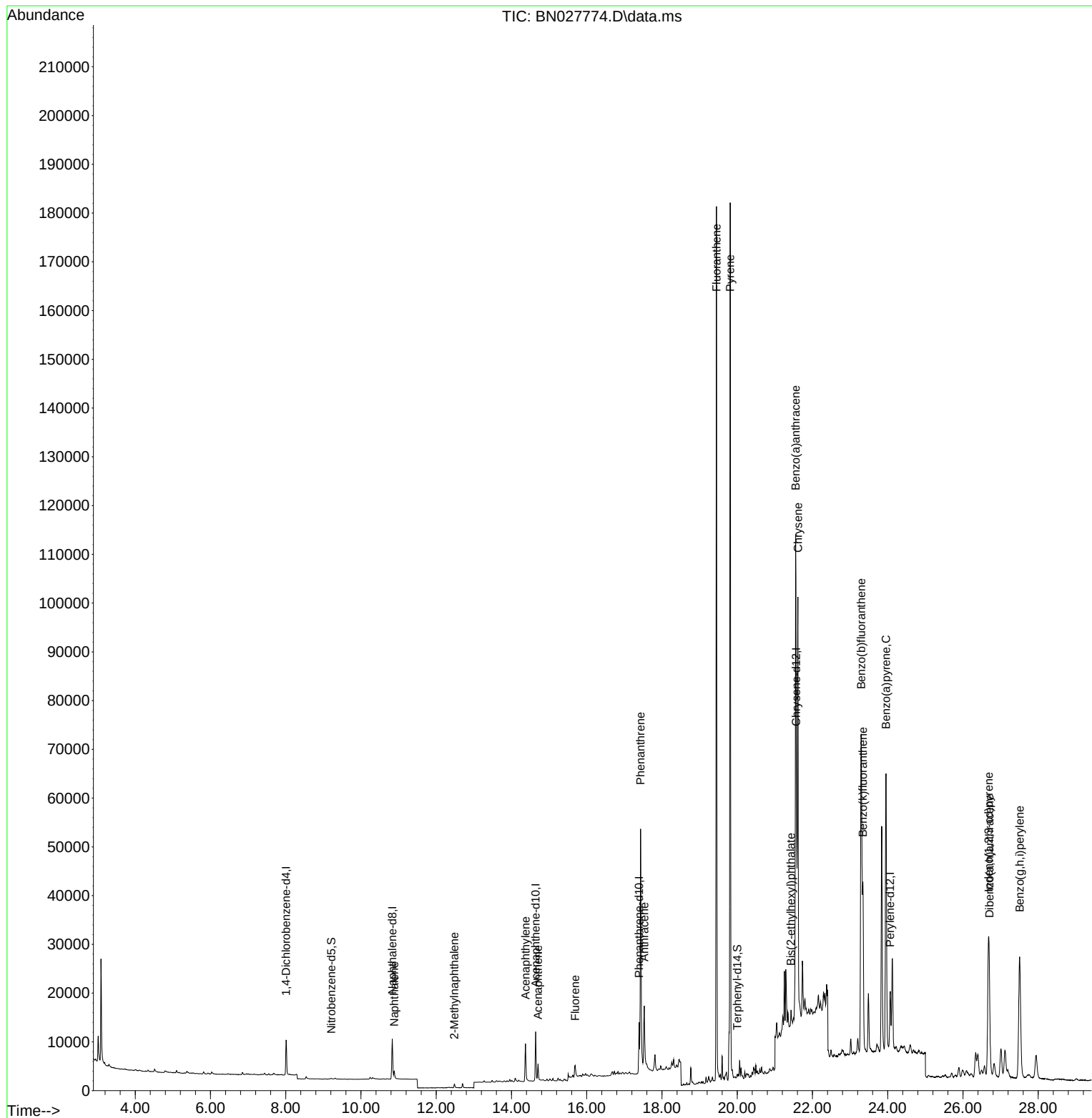
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN092023\
Data File : BN027774.D
Acq On : 20 Sep 2023 21:40
Operator : MA/JU
Sample : 04367-04 20X
Misc :
ALS Vial : 19 Sample Multiplier: 1

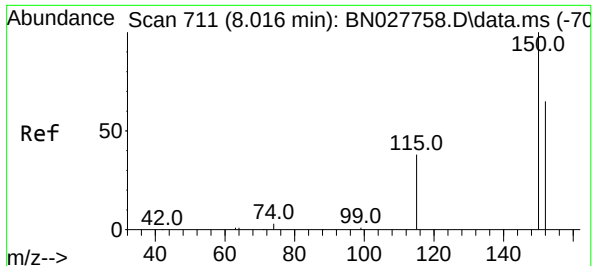
Instrument :
BNA_N
ClientSampleId :
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APPROVED

Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023

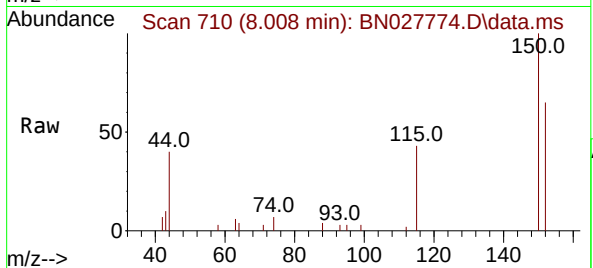
Quant Time: Sep 21 04:23:39 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN092023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 20 13:45:42 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.008 min Scan# 711
Delta R.T. -0.008 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

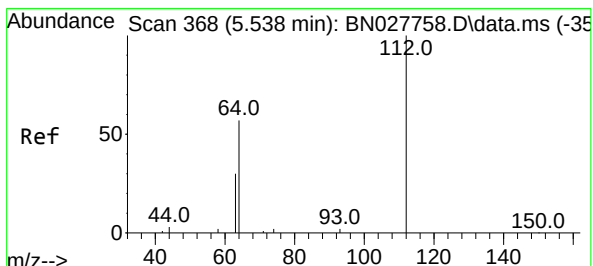
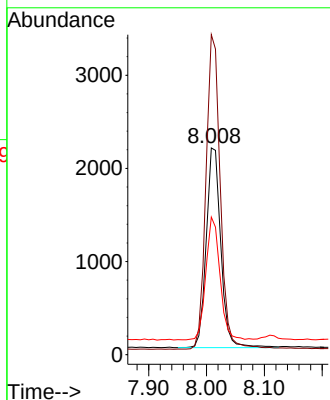
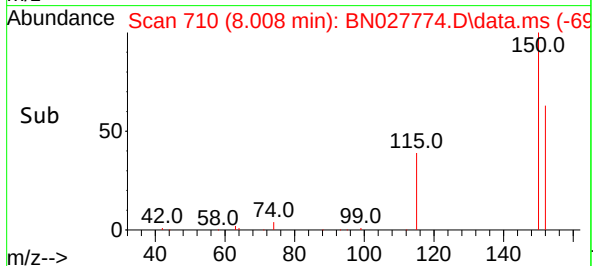
Instrument :
BNA_N
ClientSampleId :
PILE-4



Tgt Ion:152 Resp: 375
Ion Ratio Lower Upper
152 100
150 154.8 120.2 180.2
115 66.6 54.5 81.7

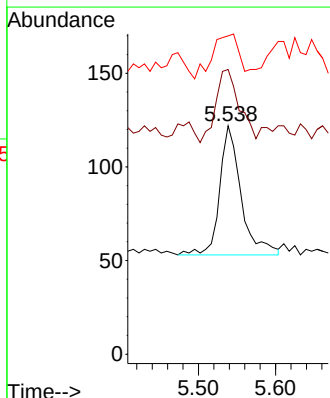
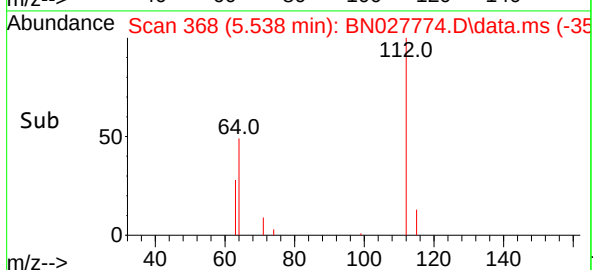
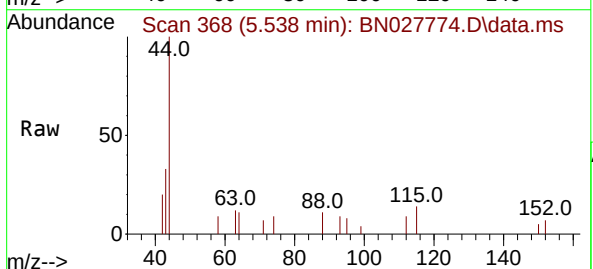
Manual Integrations
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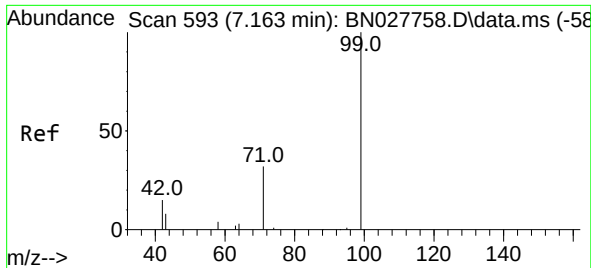
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023



#4
2-Fluorophenol
Concen: 0.014 ng
RT: 5.538 min Scan# 368
Delta R.T. 0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

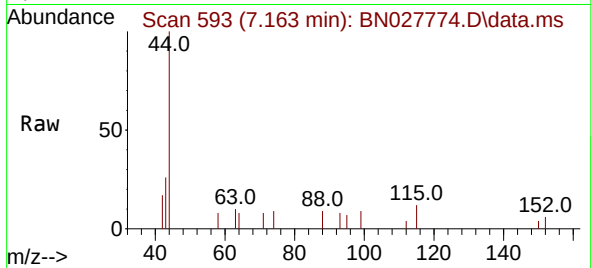
Tgt Ion:112 Resp: 133
Ion Ratio Lower Upper
112 100
64 61.7 46.1 69.1
63 43.6 24.0 36.0#





#5
Phenol-d6
Concen: 0.012 ng
RT: 7.163 min Scan# 593
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

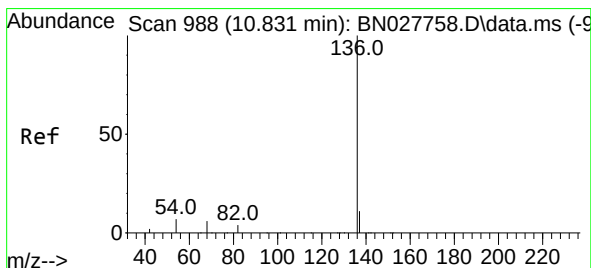
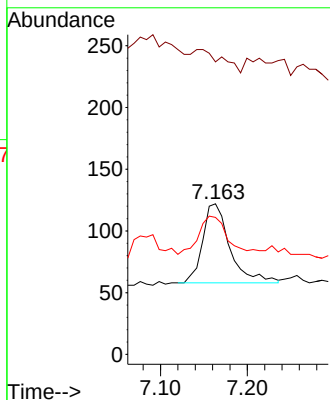
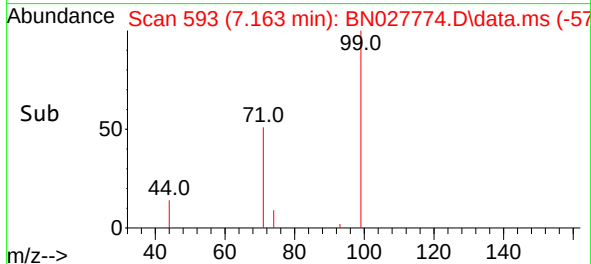
Instrument :
BNA_N
ClientSampleId :
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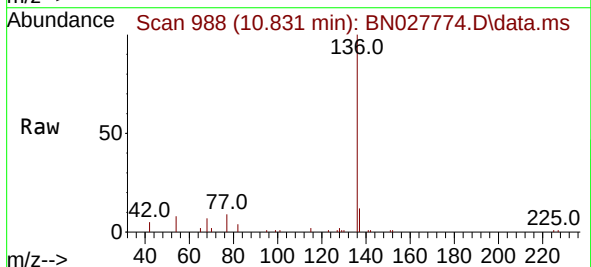
Tgt Ion: 99 Resp: 140
Ion Ratio Lower Upper
99 100
42 0.0 16.6 25.0
71 50.7 28.1 42.1

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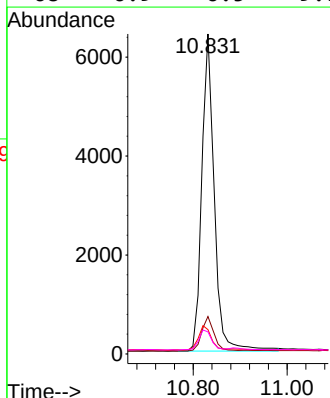
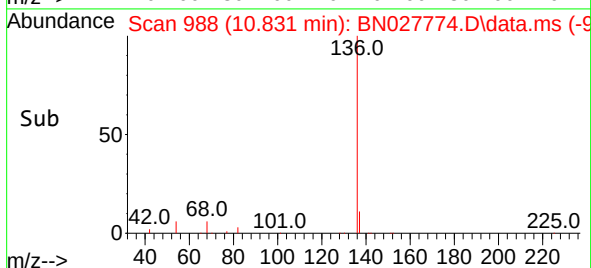
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023

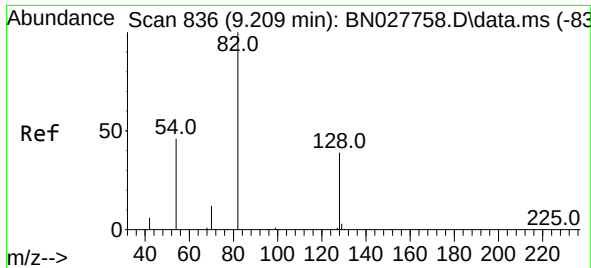


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.831 min Scan# 988
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40



Tgt Ion:136 Resp: 11832
Ion Ratio Lower Upper
136 100
137 11.7 10.1 15.1
54 7.6 7.4 11.0
68 6.9 6.5 9.7





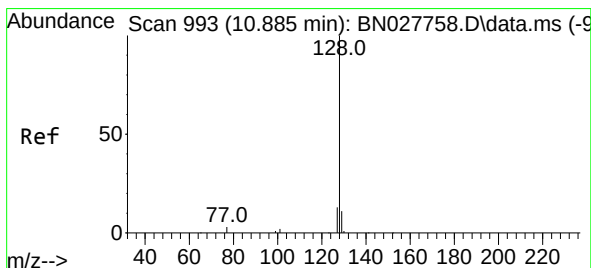
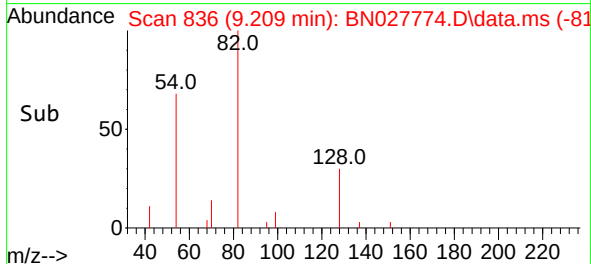
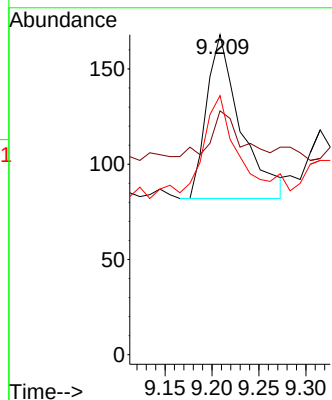
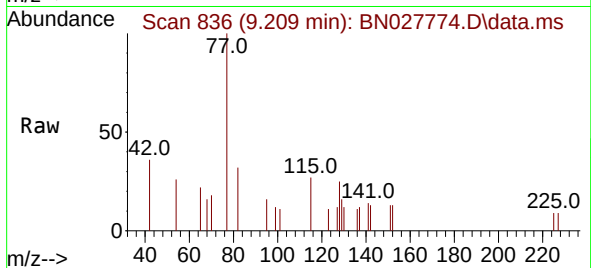
#8
Nitrobenzene-d5
Concen: 0.023 ng
RT: 9.209 min Scan# 836
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

Instrument :
BNA_N
ClientSampleId :
PILE-4

Tgt Ion: 82 Resp: 211
Ion Ratio Lower Upper
82 100
128 76.2 36.8 55.2#
54 81.0 39.9 59.9#

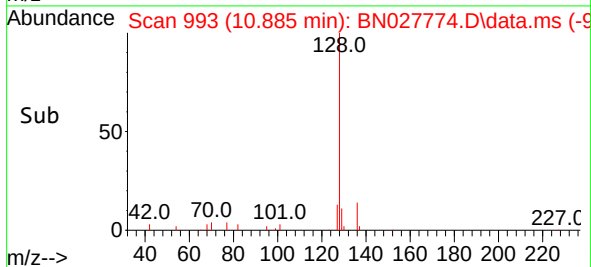
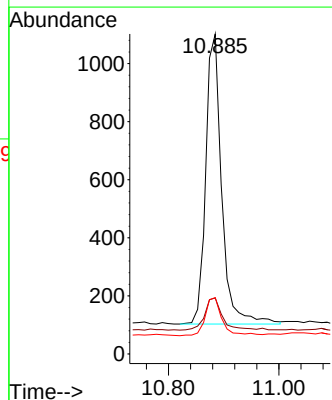
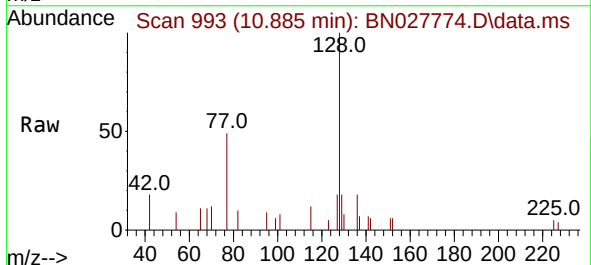
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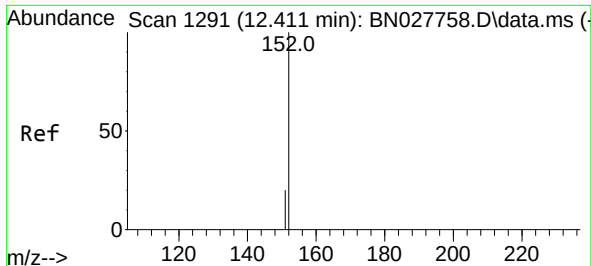
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023



#9
Naphthalene
Concen: 0.061 ng
RT: 10.885 min Scan# 993
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

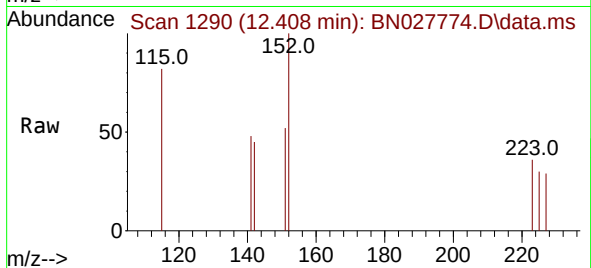
Tgt Ion:128 Resp: 2011
Ion Ratio Lower Upper
128 100
129 17.5 10.2 15.2#
127 17.6 11.1 16.7#





#11
2-Methylnaphthalene-d10
Concen: 0.010 ng
RT: 12.408 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

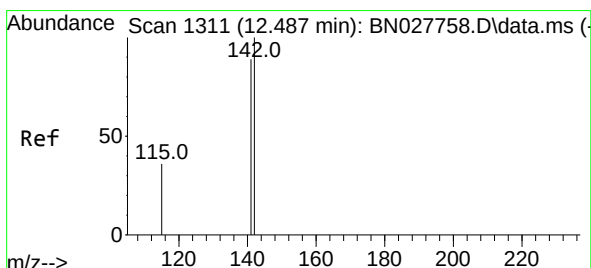
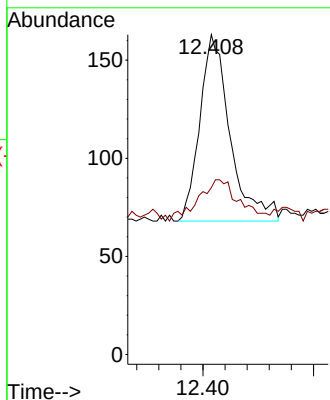
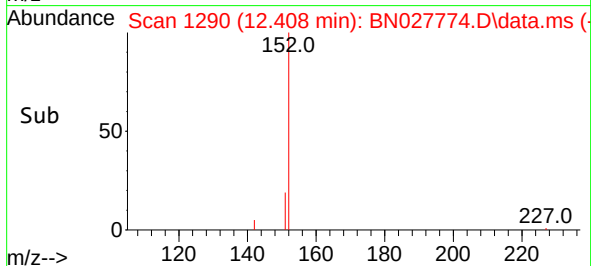
Instrument :
BNA_N
ClientSampleId :
PILE-4



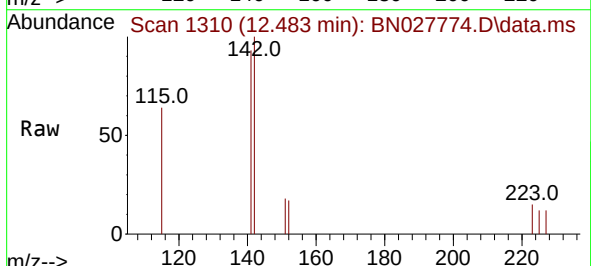
Tgt Ion:152 Resp: 183
Ion Ratio Lower Upper
152 100
151 29.3 15.6 23.4

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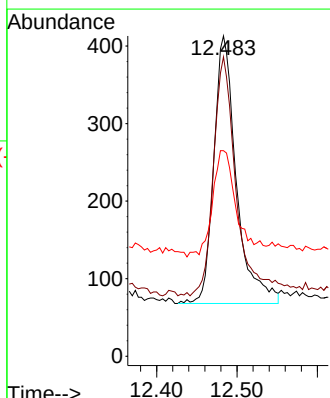
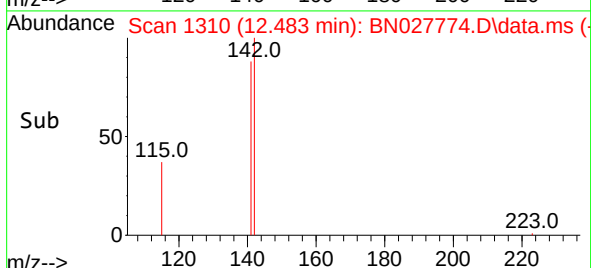
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023

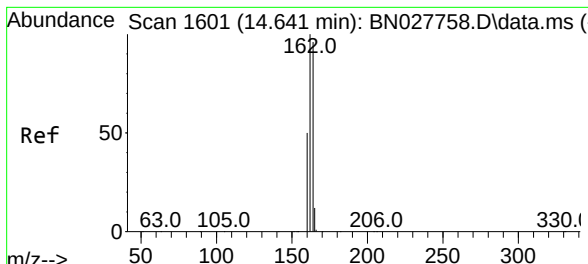


#12
2-Methylnaphthalene
Concen: 0.030 ng
RT: 12.483 min Scan# 1310
Delta R.T. -0.004 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40



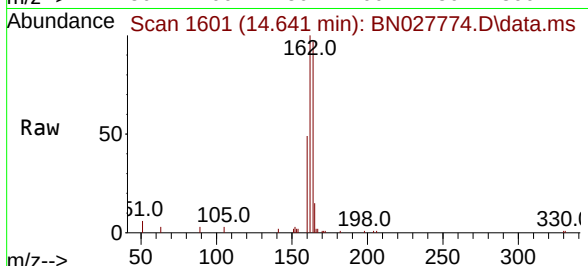
Tgt Ion:142 Resp: 673
Ion Ratio Lower Upper
142 100
141 93.5 71.5 107.3
115 64.2 31.8 47.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.641 min Scan# 1601
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

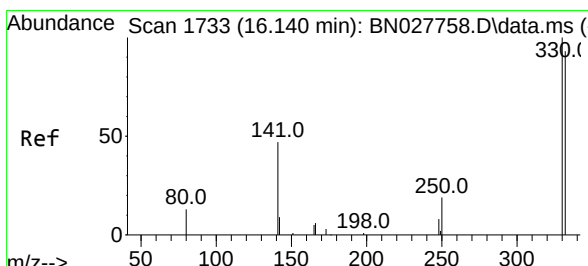
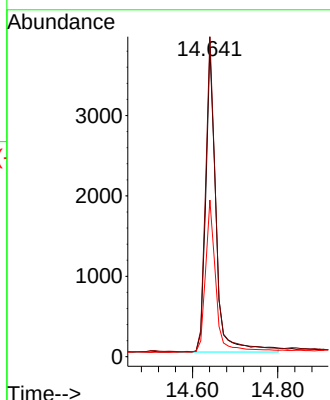
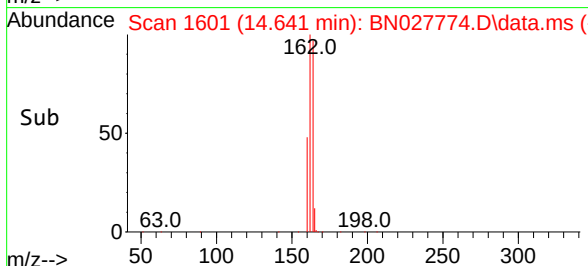
Instrument :
BNA_N
ClientSampleId :
PILE-4



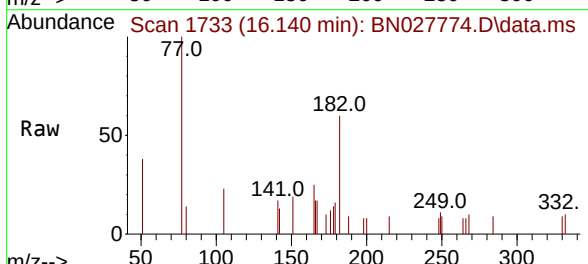
Tgt Ion:164 Resp: 6375
Ion Ratio Lower Upper
164 100
162 103.5 83.6 125.4
160 50.7 42.6 64.0

Manual Integrations
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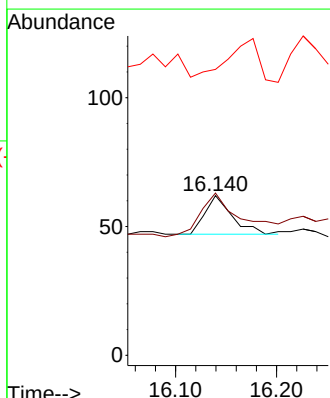
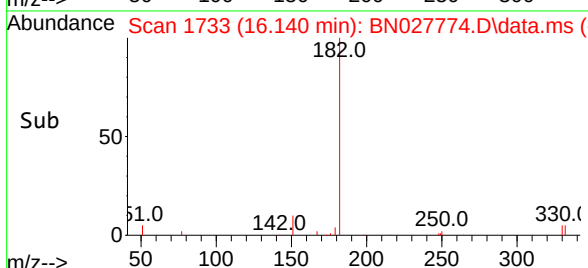
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023

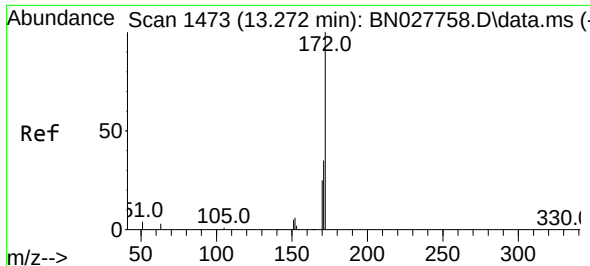


#14
2,4,6-Tribromophenol
Concen: 0.010 ng
RT: 16.140 min Scan# 1733
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40



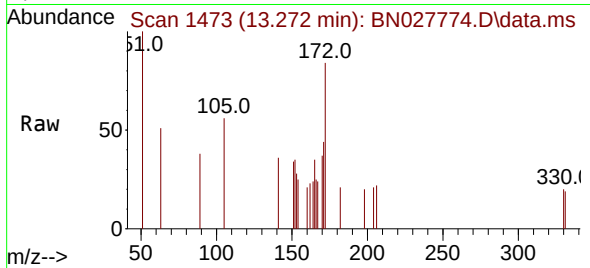
Tgt Ion:330 Resp: 28
Ion Ratio Lower Upper
330 100
332 175.0 77.0 115.4#
141 0.0 38.1 57.1#





#15
2-Fluorobiphenyl
Concen: 0.013 ng
RT: 13.272 min Scan# 1473
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

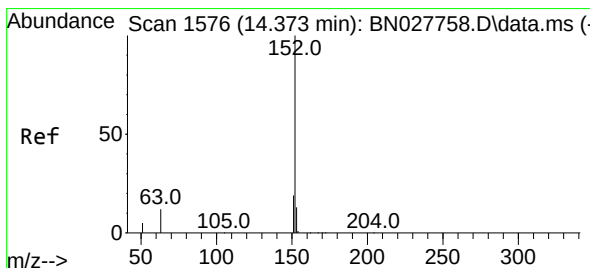
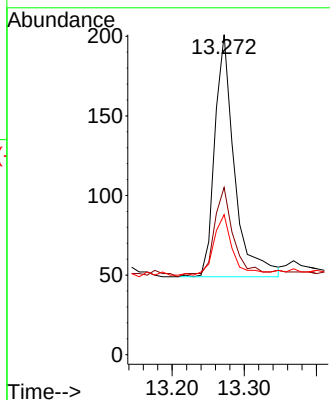
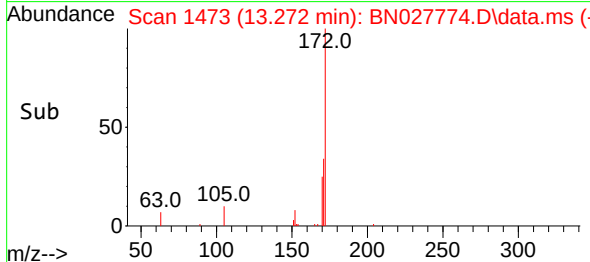
Instrument :
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ClientSampleId :
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Tgt Ion	Ratio	Lower	Upper
172	100		
171	52.2	29.3	43.9
170	43.8	20.8	31.2

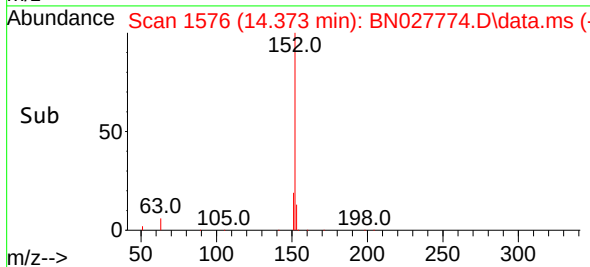
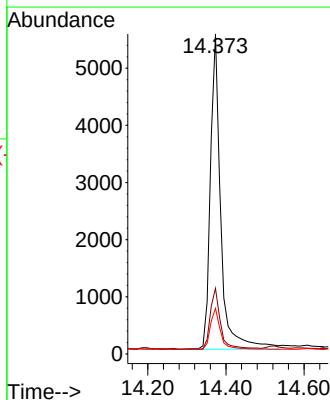
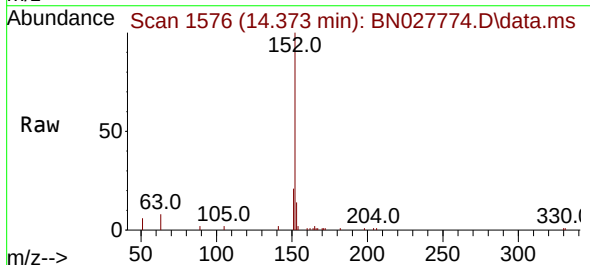
Manual Integrations
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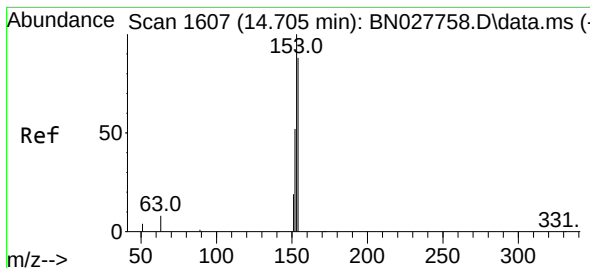
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023



#16
Acenaphthylene
Concen: 0.376 ng
RT: 14.373 min Scan# 1576
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.4	23.2
153	12.8	10.6	15.8





#17

Acenaphthene

Concen: 0.090 ng

RT: 14.705 min Scan# 1607

Delta R.T. 0.000 min

Lab File: BN027774.D

Acq: 20 Sep 2023 21:40

Instrument :

BNA_N

ClientSampleId :

PILE-4

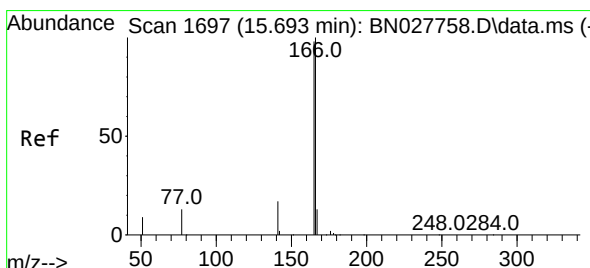
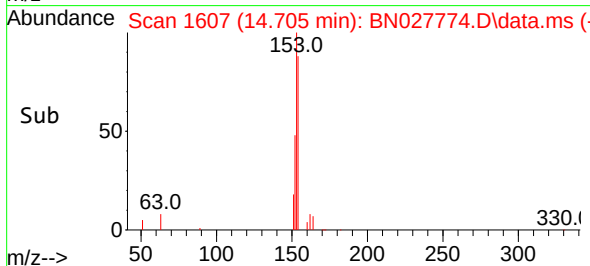
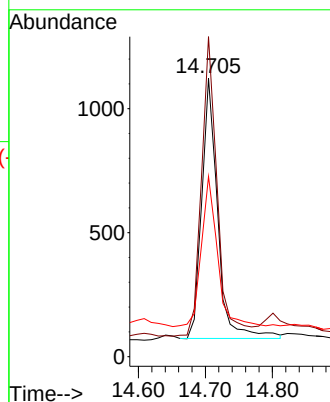
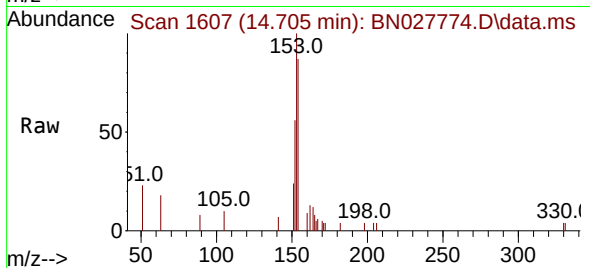
Tgt Ion:	154	Resp:	1734
Ion	Ratio	Lower	Upper
154	100		
153	113.6	91.0	136.6
152	58.0	47.4	71.2

Manual Integrations

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Reviewed By :Yogesh Patel 09/21/2023

Supervised By :mohammad ahmed 09/21/2023



#18

Fluorene

Concen: 0.099 ng

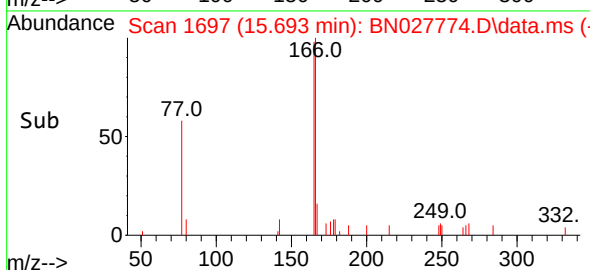
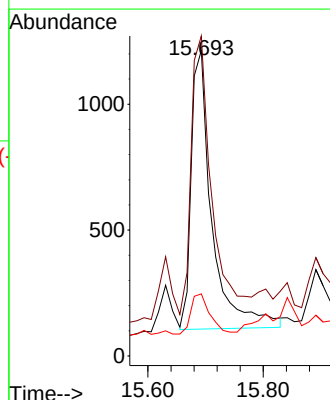
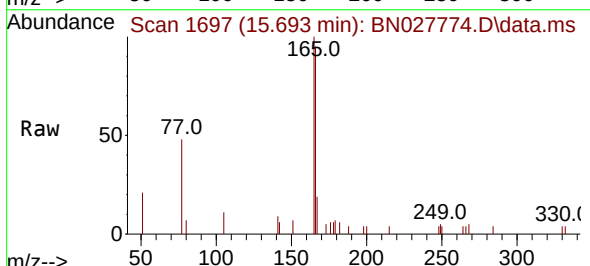
RT: 15.693 min Scan# 1697

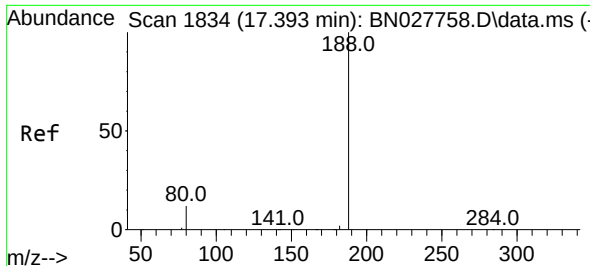
Delta R.T. -0.000 min

Lab File: BN027774.D

Acq: 20 Sep 2023 21:40

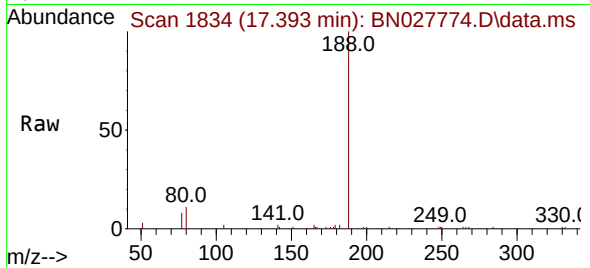
Tgt Ion:	166	Resp:	2764
Ion	Ratio	Lower	Upper
166	100		
165	99.1	79.3	118.9
167	13.3	10.6	16.0





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.393 min Scan# 1834
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

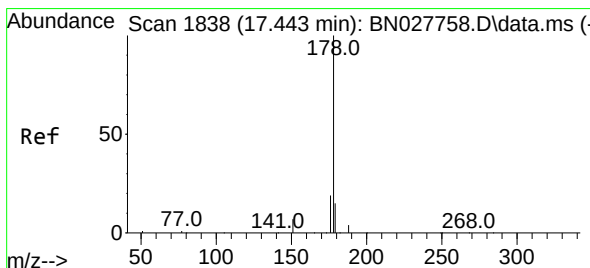
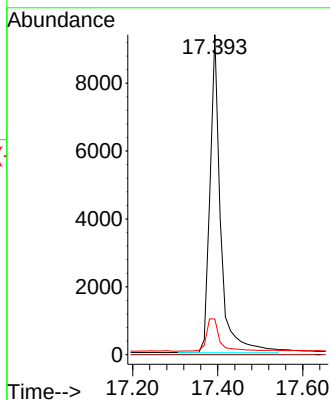
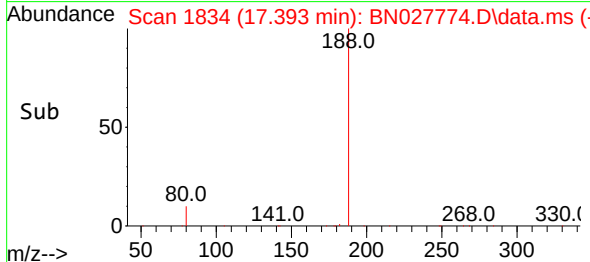
Instrument :
BNA_N
ClientSampleId :
PILE-4



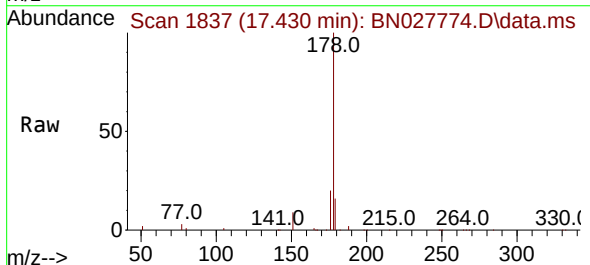
Tgt Ion:188 Resp: 16245
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.2 10.6 16.0

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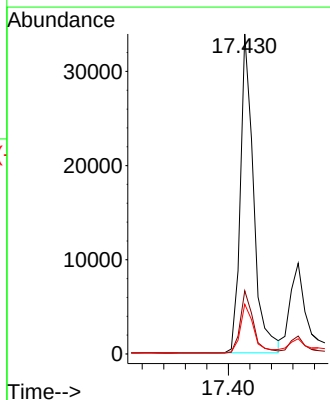
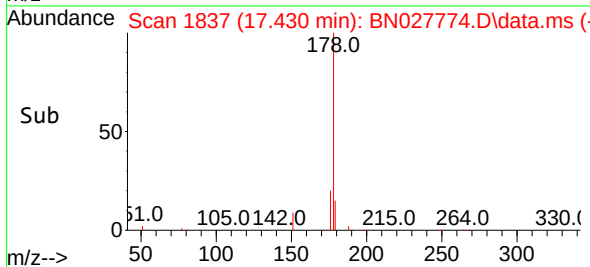
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023

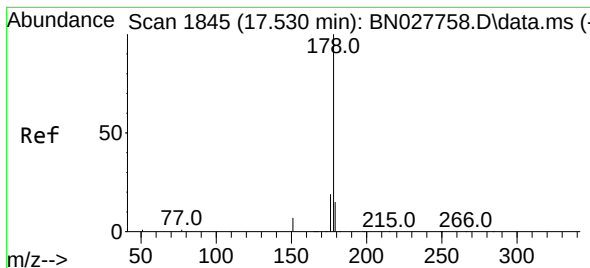


#25
Phenanthrene
Concen: 1.212 ng
RT: 17.430 min Scan# 1837
Delta R.T. -0.012 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40



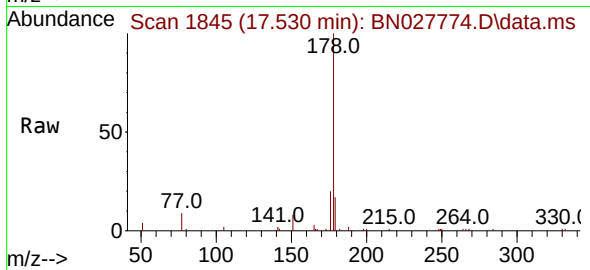
Tgt Ion:178 Resp: 57595
Ion Ratio Lower Upper
178 100
176 19.3 15.5 23.3
179 15.2 12.3 18.5





#26
 Anthracene
 Concen: 0.484 ng
 RT: 17.530 min Scan# 1119
 Delta R.T. -0.000 min
 Lab File: BN027774.D
 Acq: 20 Sep 2023 21:40

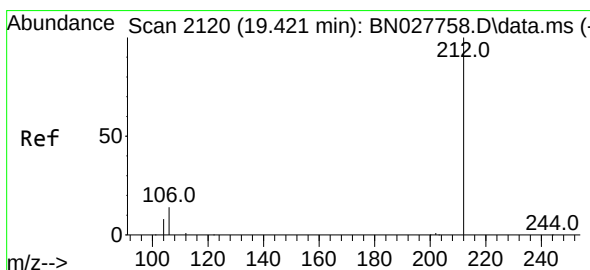
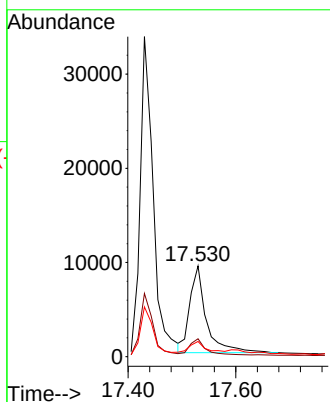
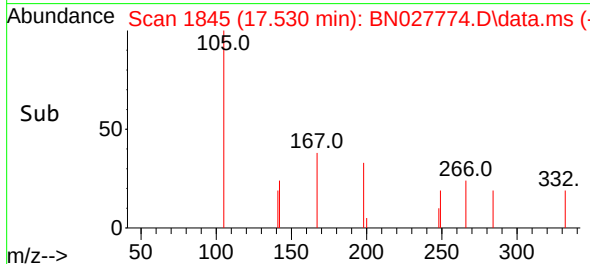
Instrument :
 BNA_N
 ClientSampleId :
 PILE-4



Tgt Ion:178 Resp: 19700
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.2 22.8
 179 11.5 12.2 18.2

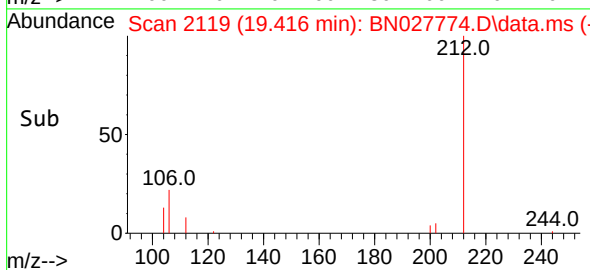
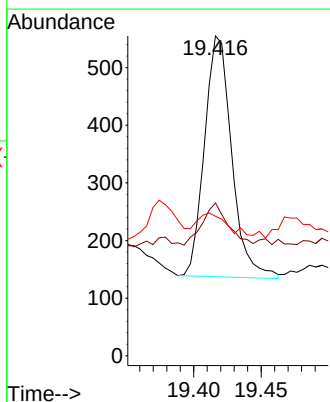
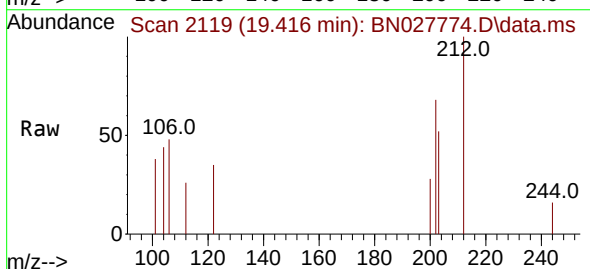
Manual Integrations
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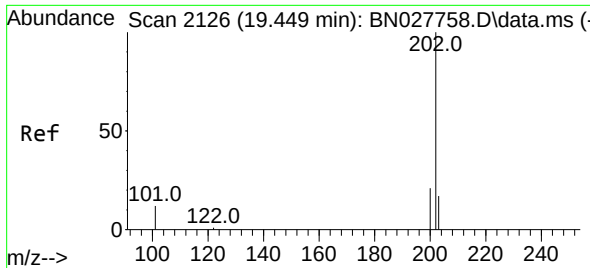
Reviewed By :Yogesh Patel 09/21/2023
 Supervised By :mohammad ahmed 09/21/2023



#27
 Fluoranthene-d10
 Concen: 0.014 ng
 RT: 19.416 min Scan# 2119
 Delta R.T. -0.005 min
 Lab File: BN027774.D
 Acq: 20 Sep 2023 21:40

Tgt Ion:212 Resp: 587
 Ion Ratio Lower Upper
 212 100
 106 16.9 12.2 18.2
 104 11.8 7.0 10.4





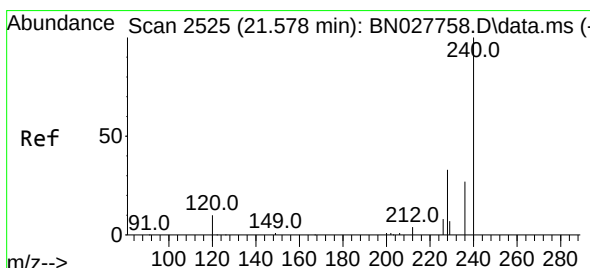
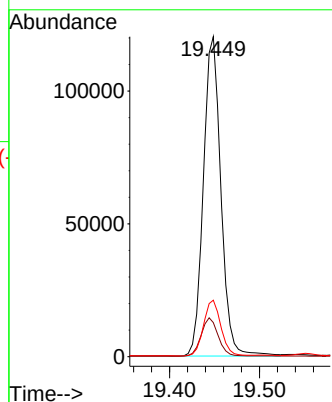
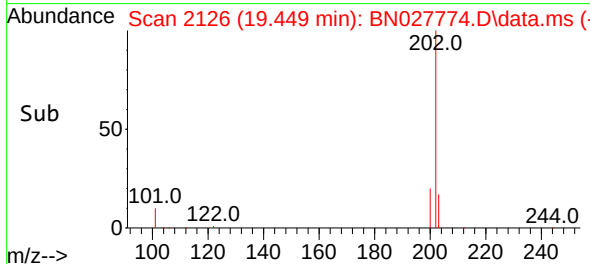
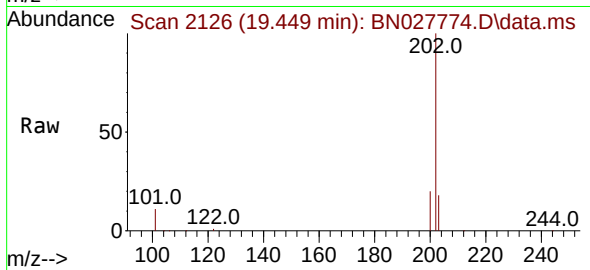
#28
Fluoranthene
Concen: 2.800 ng
RT: 19.449 min Scan# 2126
Delta R.T. 0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

Instrument :
BNA_N
ClientSampleId :
PILE-4

Tgt Ion:202 Resp: 16352
Ion Ratio Lower Upper
202 100
101 11.7 9.6 14.4
203 17.2 13.8 20.6

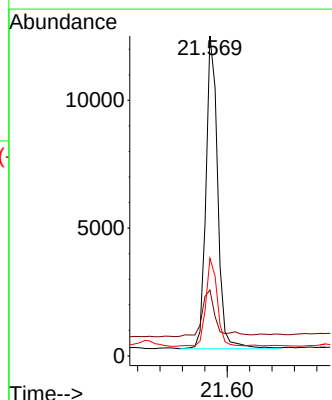
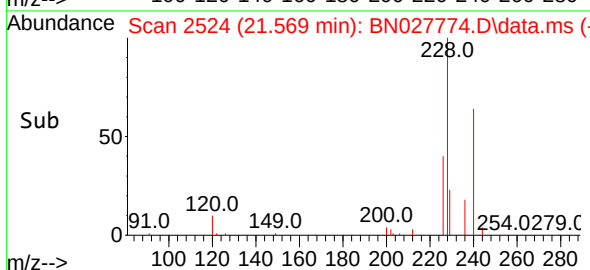
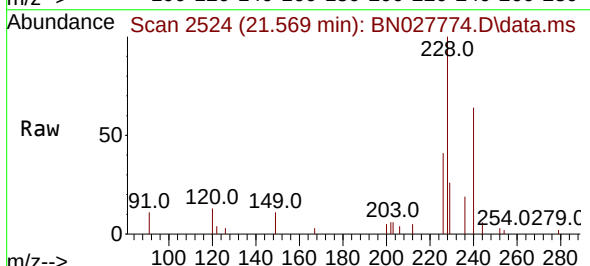
Manual Integrations
APPROVED

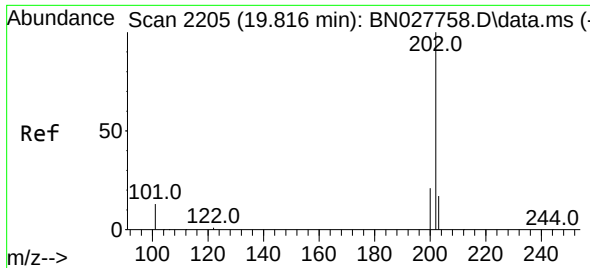
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.569 min Scan# 2524
Delta R.T. -0.009 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

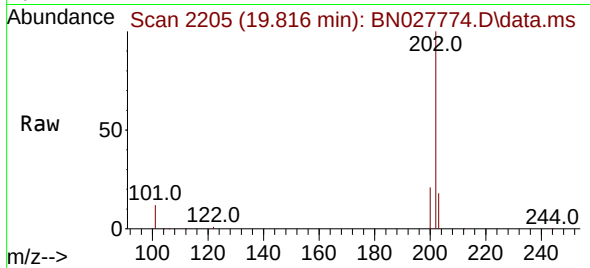
Tgt Ion:240 Resp: 17857
Ion Ratio Lower Upper
240 100
120 20.6 11.2 16.8#
236 30.5 22.8 34.2





#30
Pyrene
Concen: 2.549 ng
RT: 19.816 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

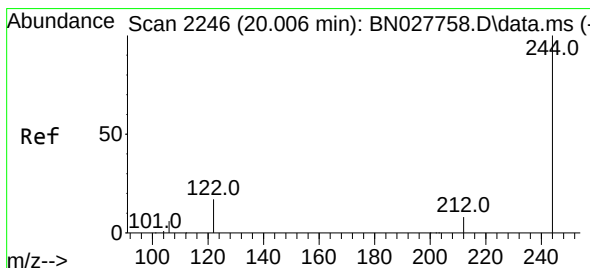
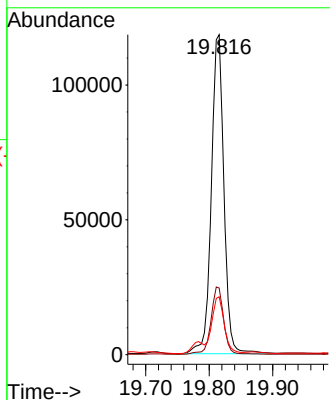
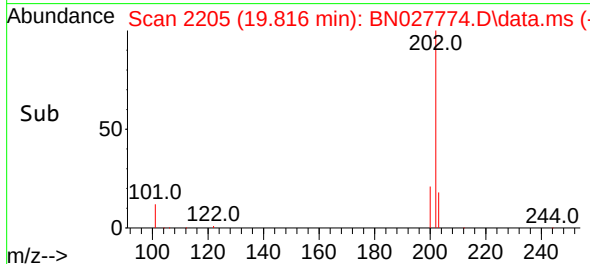
Instrument :
BNA_N
ClientSampleId :
PILE-4



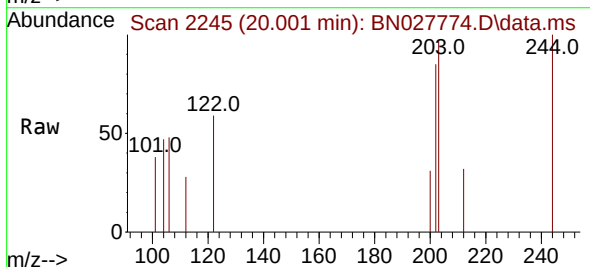
Tgt Ion:202 Resp: 16354
Ion Ratio Lower Upper
202 100
200 21.2 16.7 25.1
203 17.4 14.2 21.4

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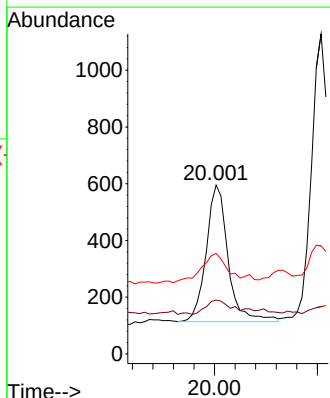
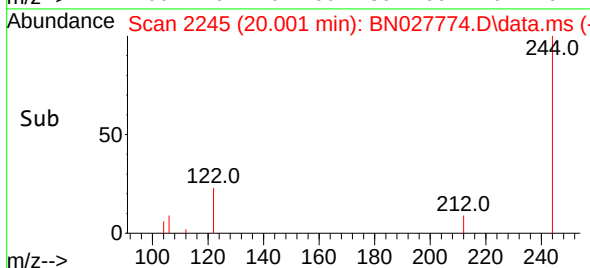
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023

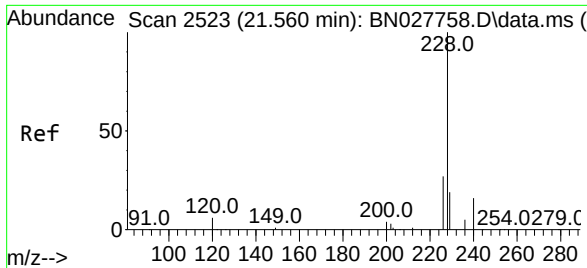


#31
Terphenyl-d14
Concen: 0.021 ng
RT: 20.001 min Scan# 2245
Delta R.T. -0.005 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40



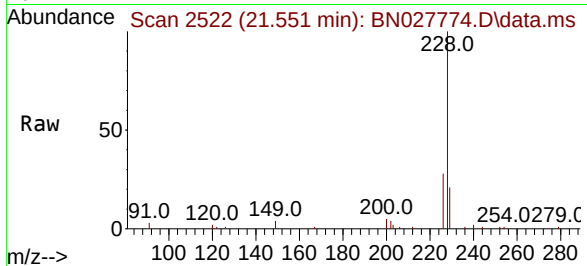
Tgt Ion:244 Resp: 709
Ion Ratio Lower Upper
244 100
212 31.9 7.5 11.3#
122 59.5 13.9 20.9#





#32
Benzo(a)anthracene
Concen: 1.556 ng
RT: 21.551 min Scan# 21551
Delta R.T. -0.009 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

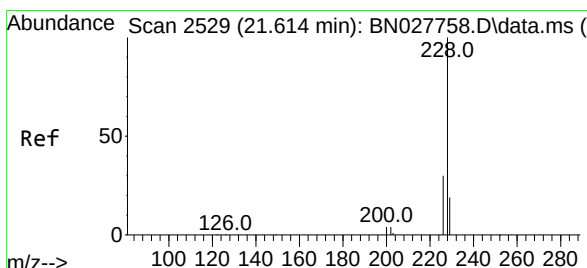
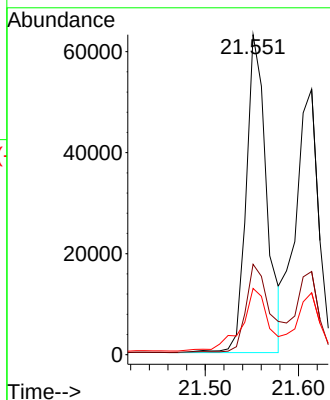
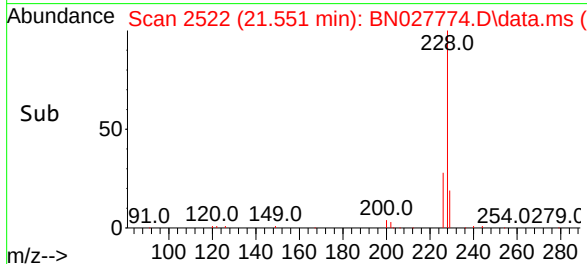
Instrument :
BNA_N
ClientSampleId :
PILE-4



Tgt Ion:228 Resp: 96452
Ion Ratio Lower Upper
228 100
226 28.3 21.9 32.9
229 20.7 15.8 23.6

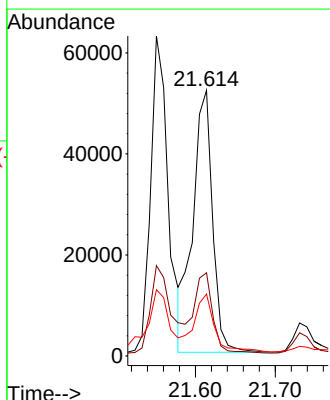
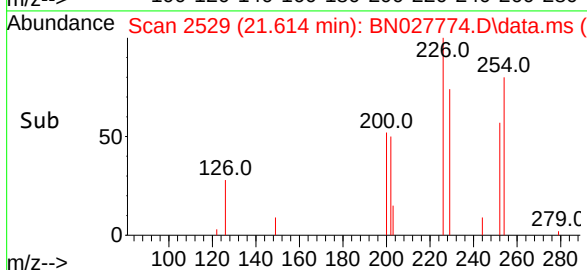
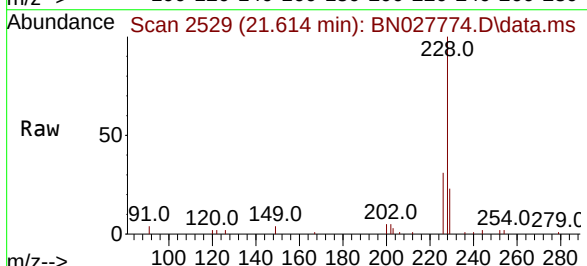
Manual Integrations
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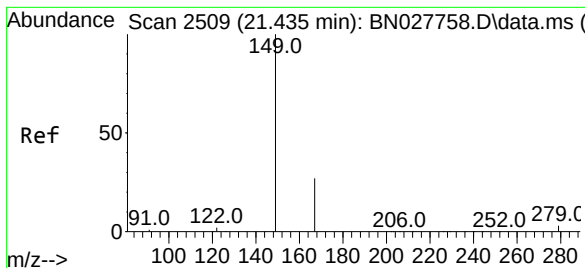
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023



#33
Chrysene
Concen: 1.310 ng
RT: 21.614 min Scan# 2529
Delta R.T. -0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

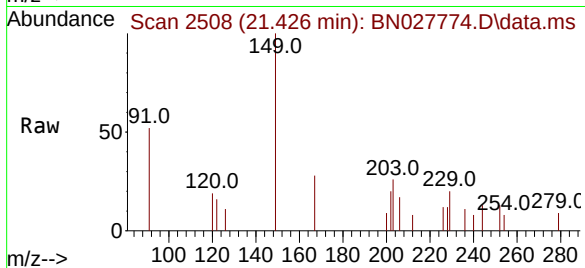
Tgt Ion:228 Resp: 89386
Ion Ratio Lower Upper
228 100
226 31.3 24.2 36.4
229 23.3 15.7 23.5





#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.114 ng
 RT: 21.426 min Scan# 2140
 Delta R.T. -0.009 min
 Lab File: BN027774.D
 Acq: 20 Sep 2023 21:40

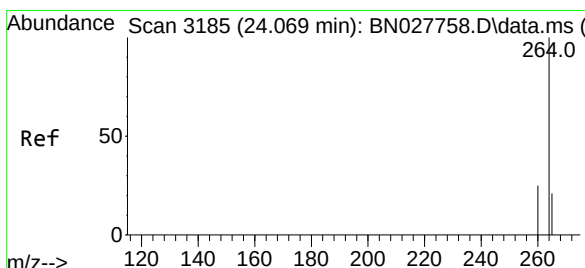
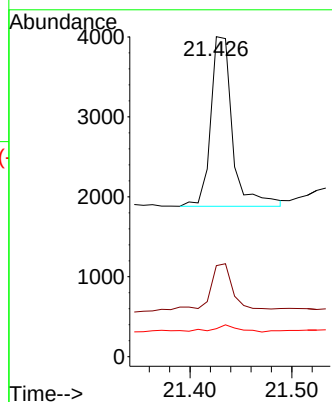
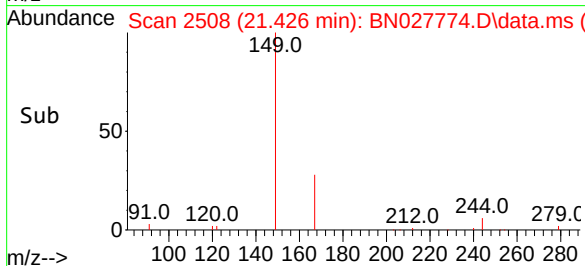
Instrument :
 BNA_N
 ClientSampleId :
 PILE-4



Tgt Ion:149 Resp: 3140
 Ion Ratio Lower Upper
 149 100
 167 33.8 21.4 32.2
 279 4.7 2.3 3.5

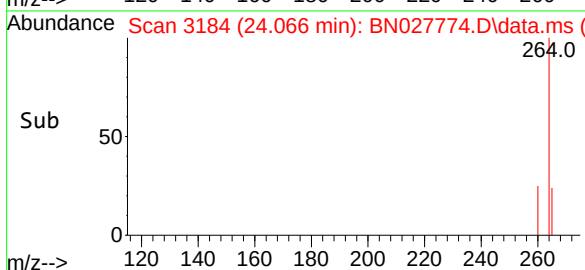
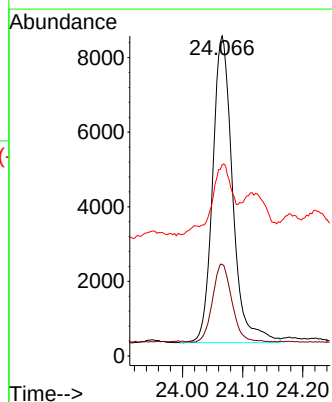
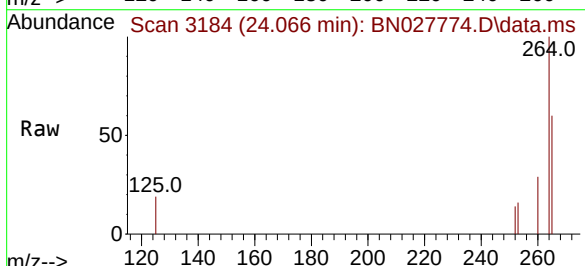
Manual Integrations
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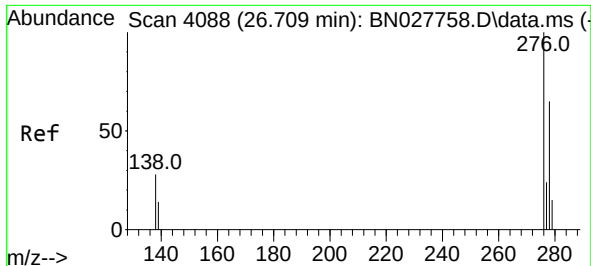
Reviewed By :Yogesh Patel 09/21/2023
 Supervised By :mohammad ahmed 09/21/2023



#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 24.066 min Scan# 3184
 Delta R.T. -0.003 min
 Lab File: BN027774.D
 Acq: 20 Sep 2023 21:40

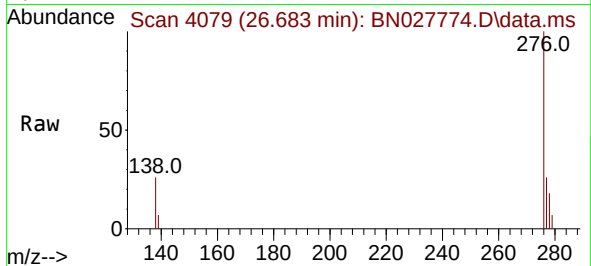
Tgt Ion:264 Resp: 19007
 Ion Ratio Lower Upper
 264 100
 260 28.6 21.0 31.6
 265 59.8 60.5 90.7





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.703 ng
RT: 26.683 min Scan# 4088
Delta R.T. -0.026 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

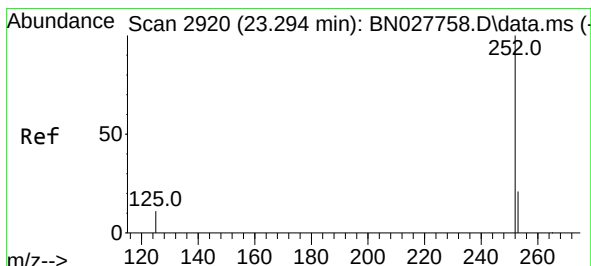
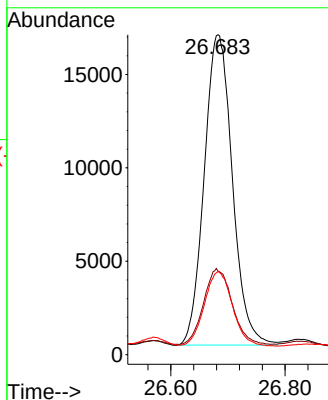
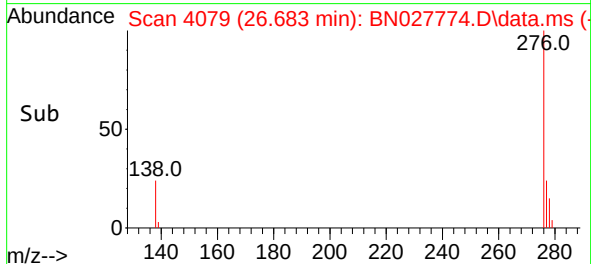
Instrument :
BNA_N
ClientSampleId :
PILE-4



Tgt Ion:276 Resp: 5685
Ion Ratio Lower Upper
276 100
138 24.4 23.5 35.3
277 23.9 19.9 29.9

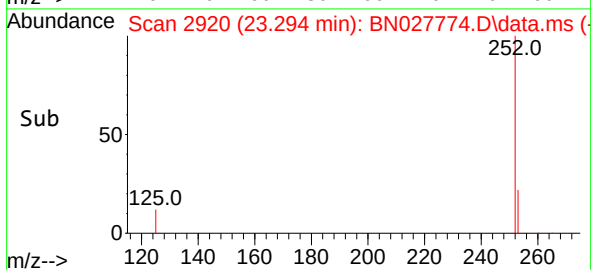
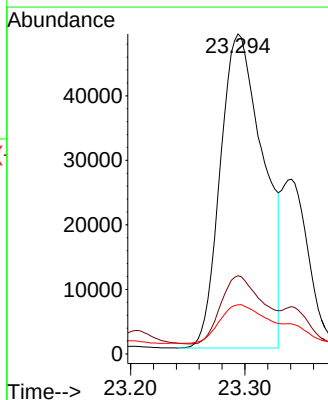
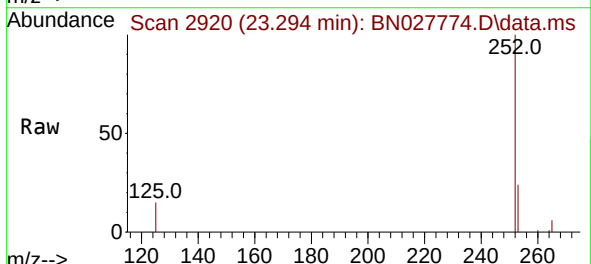
Manual Integrations
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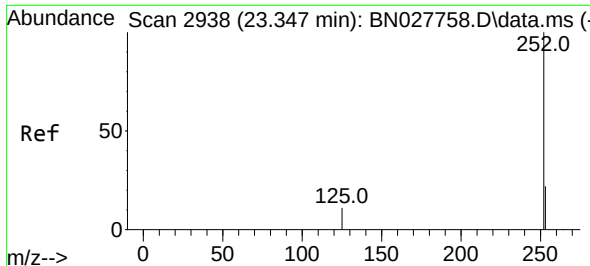
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023



#37
Benzo(b)fluoranthene
Concen: 1.695 ng
RT: 23.294 min Scan# 2920
Delta R.T. 0.000 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

Tgt Ion:252 Resp: 127390
Ion Ratio Lower Upper
252 100
253 24.4 20.8 31.2
125 15.3 13.5 20.3





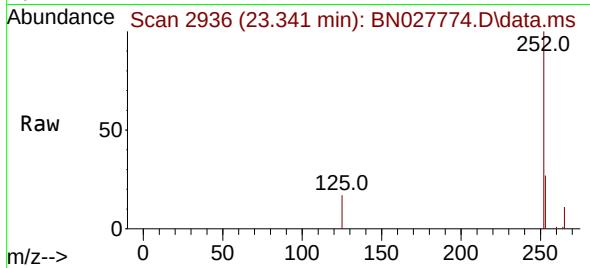
#38
Benzo(k)fluoranthene
Concen: 0.569 ng m
RT: 23.341 min Scan# 2938
Delta R.T. -0.006 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

Instrument :

BNA_N

ClientSampleId :

PILE-4

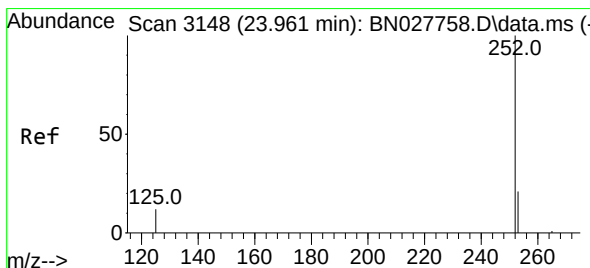
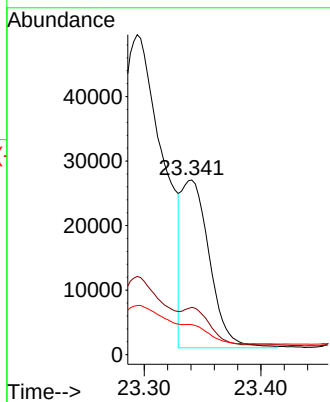
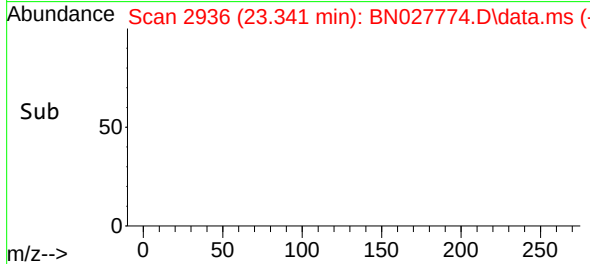


Tgt Ion:252 Resp: 43339
Ion Ratio Lower Upper
252 100
253 27.1 21.2 31.8
125 17.2 13.8 20.6

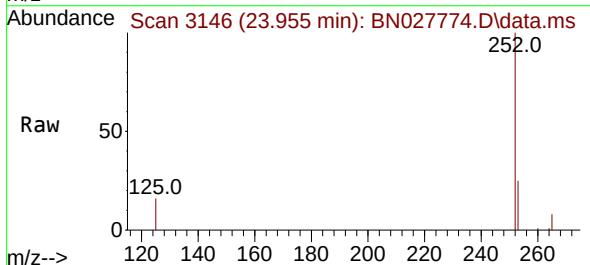
Manual Integrations

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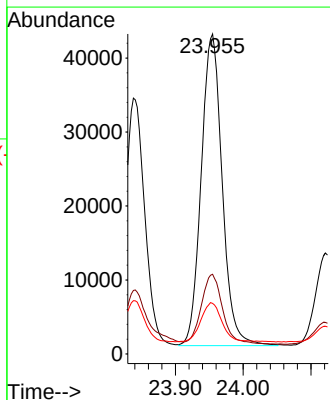
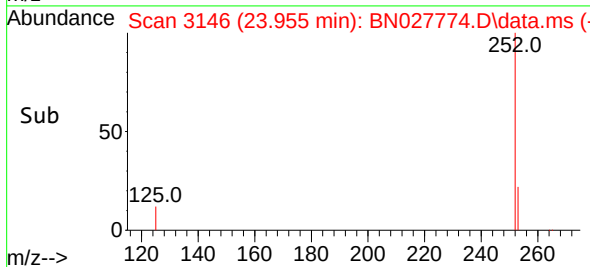
Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023

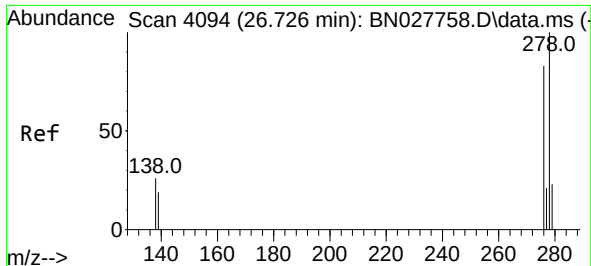


#39
Benzo(a)pyrene
Concen: 1.329 ng m
RT: 23.955 min Scan# 3146
Delta R.T. -0.006 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40



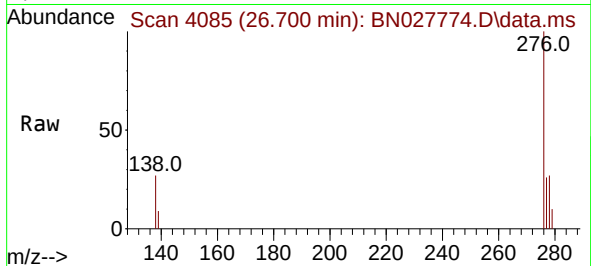
Tgt Ion:252 Resp: 90741
Ion Ratio Lower Upper
252 100
253 24.9 22.6 33.8
125 15.8 16.5 24.7#





#40
Dibenzo(a,h)anthracene
Concen: 0.208 ng m
RT: 26.700 min Scan# 4094
Delta R.T. -0.026 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

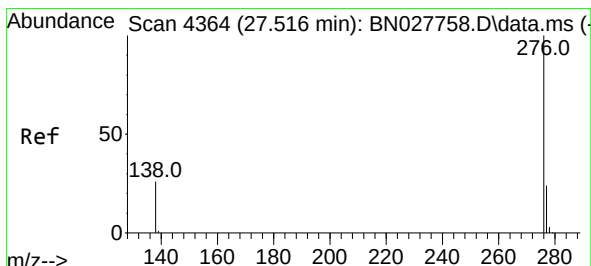
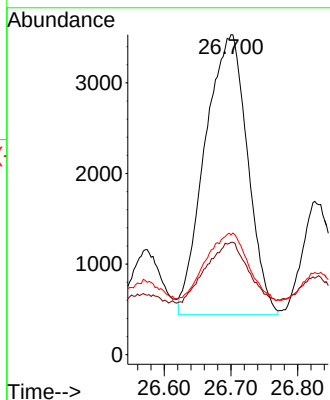
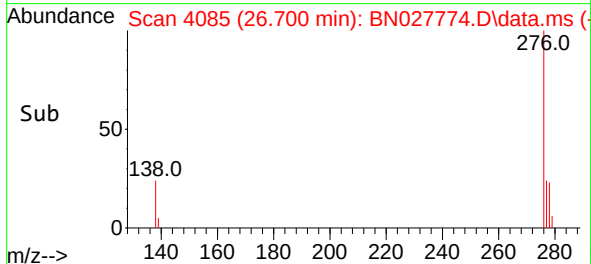
Instrument :
BNA_N
ClientSampleId :
PILE-4



Tgt Ion:278 Resp: 13700
Ion Ratio Lower Upper
278 100
139 35.1 17.1 25.7
279 37.4 22.2 33.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/21/2023
Supervised By :mohammad ahmed 09/21/2023



#41
Benzo(g,h,i)perylene
Concen: 0.822 ng
RT: 27.507 min Scan# 4361
Delta R.T. -0.009 min
Lab File: BN027774.D
Acq: 20 Sep 2023 21:40

Tgt Ion:276 Resp: 59996
Ion Ratio Lower Upper
276 100
277 25.7 20.4 30.6
138 27.7 21.9 32.9

