

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN113023\
 Data File : BN028932.D
 Acq On : 01 Dec 2023 04:45
 Operator : MA/JU
 Sample : 05312-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 P-4(170FT)(5-10)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 12/01/2023
 Supervised By :mohammad ahmed 12/01/2023

Quant Time: Dec 01 05:17:39 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN113023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 01 00:28:34 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.804	152	4790	0.400	ng	0.00
7) Naphthalene-d8	10.594	136	13948	0.400	ng	# 0.00
13) Acenaphthene-d10	14.428	164	10136	0.400	ng	0.00
19) Phenanthrene-d10	17.184	188	11679	0.400	ng	# 0.00
29) Chrysene-d12	21.391	240	6647m	0.400	ng	0.02
35) Perylene-d12	23.734	264	9120	0.400	ng	# 0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.435	112	3762	0.259	ng	-0.01
5) Phenol-d6	7.031	99	4328	0.269	ng	-0.01
8) Nitrobenzene-d5	8.982	82	3050	0.220	ng	0.00
11) 2-Methylnaphthalene-d10	12.181	152	5253	0.235	ng	0.00
14) 2,4,6-Tribromophenol	15.930	330	531	0.078	ng	0.00
15) 2-Fluorobiphenyl	13.060	172	6504	0.149	ng	-0.01
27) Fluoranthene-d10	19.222	212	4355	0.142	ng	0.00
31) Terphenyl-d14	19.822	244	6901	0.377	ng	0.00
Target Compounds						
9) Naphthalene	10.658	128	12761737	287.921	ng	100
12) 2-Methylnaphthalene	12.257	142	1162447	41.737	ng	97
16) Acenaphthylene	14.150	152	1591685	29.643	ng	100
17) Acenaphthene	14.492	154	233236	6.544	ng	99
18) Fluorene	15.487	166	1723889	38.209	ng	100
25) Phenanthrene	17.233	178	8121374	210.608	ng	97
26) Anthracene	17.320	178	2224187	62.401	ng	98
28) Fluoranthene	19.264	202	7243724m	180.645	ng	
30) Pyrene	19.627	202	5707641	112.330	ng	98
32) Benzo(a)anthracene	21.374	228	2708788	95.846	ng	98
33) Chrysene	21.427	228	1942540	70.006	ng	93
34) Bis(2-ethylhexyl)phtha...	21.311	149	16137	0.355	ng	# 86
36) Indeno(1,2,3-cd)pyrene	26.166	276	1137817	28.631	ng	# 90
37) Benzo(b)fluoranthene	23.035	252	2600044	69.686	ng	# 24
38) Benzo(k)fluoranthene	23.073	252	864691m	24.563	ng	
39) Benzo(a)pyrene	23.640	252	1896965	56.924	ng	# 16
40) Dibenzo(a,h)anthracene	26.172	278	285582	9.286	ng	# 29
41) Benzo(g,h,i)perylene	26.912	276	1008320	29.148	ng	# 67

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

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P-4(170FT)(5-10)

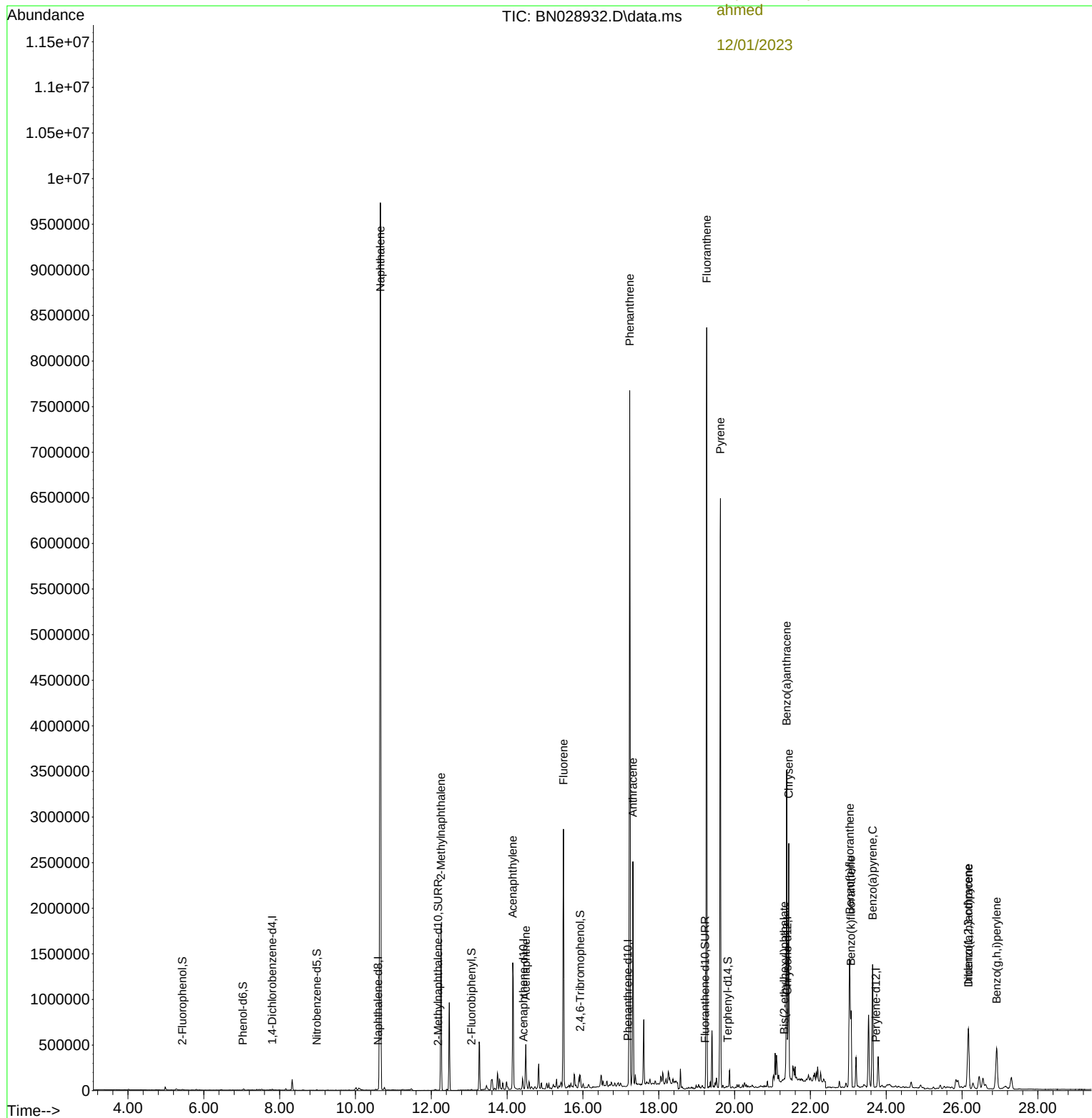
Quant Time: Dec 01 05:17:39 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN113023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 01 00:28:34 2023
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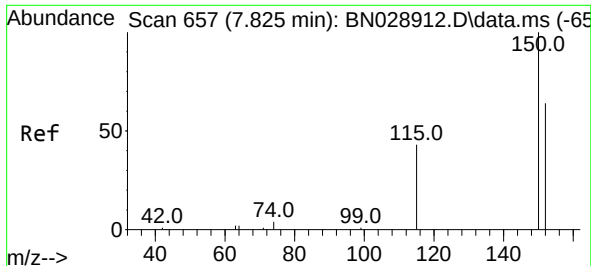
Manual Integrations
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ahmed

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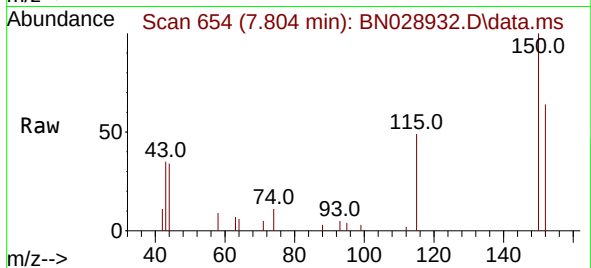
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.804 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

Instrument :

BNA_N

ClientSampleId :

P-4(170FT)(5-10)



Tgt Ion:152 Resp: 4790
Ion Ratio Lower Upper
152 100
150 155.3 123.4 185.2
115 76.2 59.1 88.7

Manual Integrations

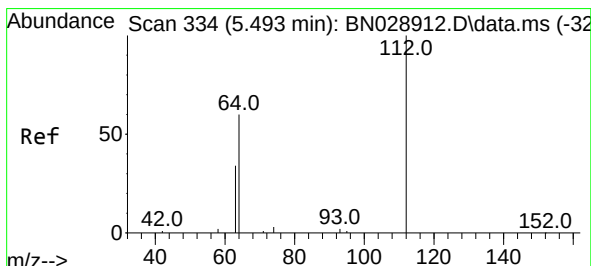
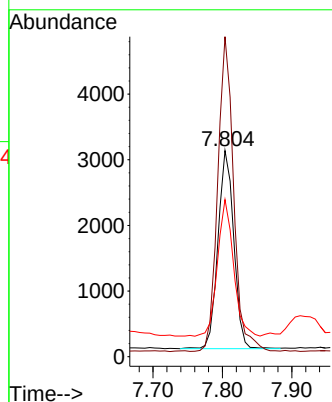
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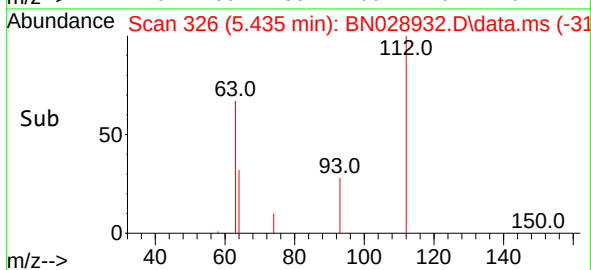
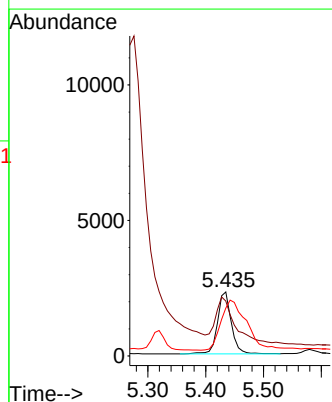
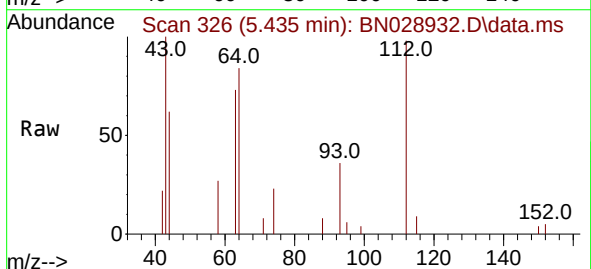
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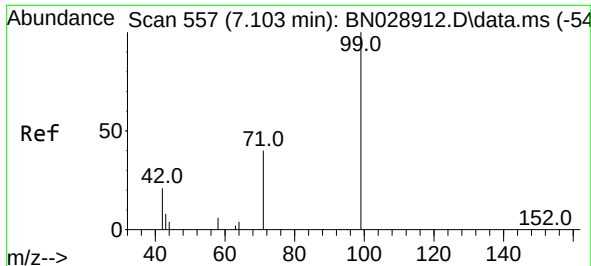
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#4
2-Fluorophenol
Concen: 0.259 ng
RT: 5.435 min Scan# 326
Delta R.T. -0.015 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

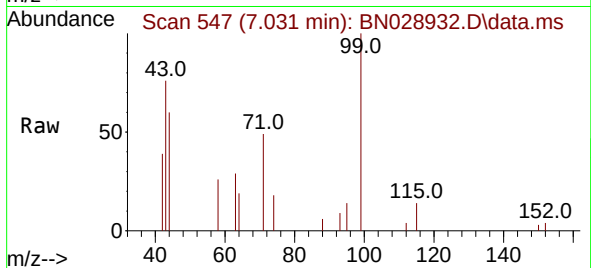
Tgt Ion:112 Resp: 3762
Ion Ratio Lower Upper
112 100
64 111.4 51.5 77.3#
63 153.8 30.4 45.6#





#5
Phenol-d6
Concen: 0.269 ng
RT: 7.031 min Scan# 547
Delta R.T. -0.015 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

Instrument :
BNA_N
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P-4(170FT)(5-10)



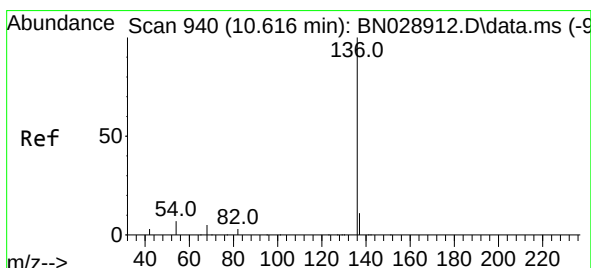
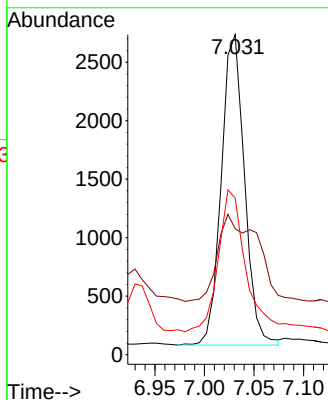
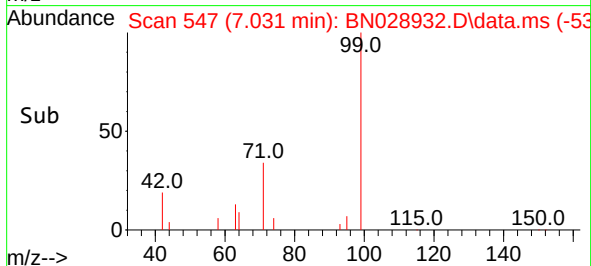
Tgt Ion: 99 Resp: 4328
Ion Ratio Lower Upper
99 100
42 52.2 21.2 31.8#
71 56.2 35.4 53.0#

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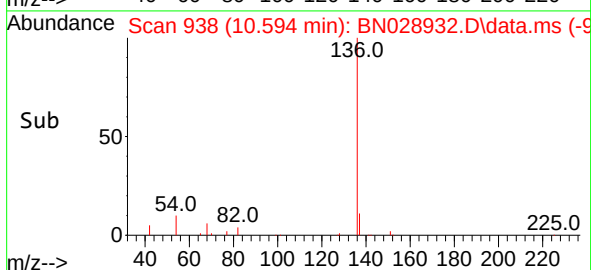
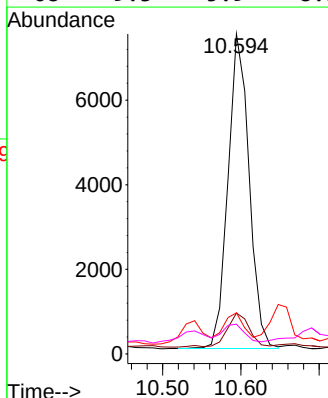
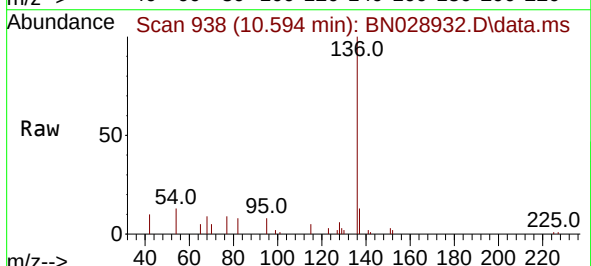
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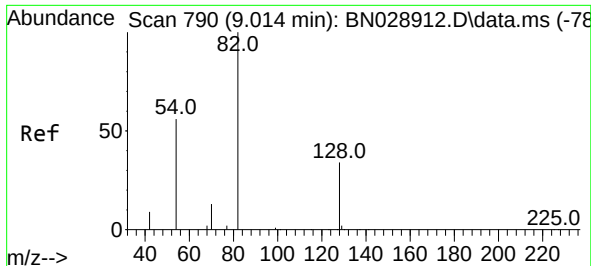
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#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.594 min Scan# 938
Delta R.T. -0.000 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

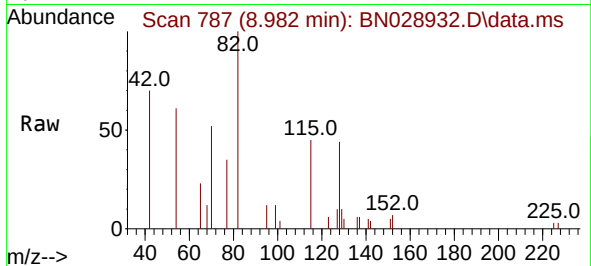
Tgt Ion:136 Resp: 13948
Ion Ratio Lower Upper
136 100
137 12.8 10.6 16.0
54 12.9 7.5 11.3#
68 9.3 5.9 8.9#





#8
Nitrobenzene-d5
Concen: 0.220 ng
RT: 8.982 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

Instrument :
BNA_N
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P-4(170FT)(5-10)



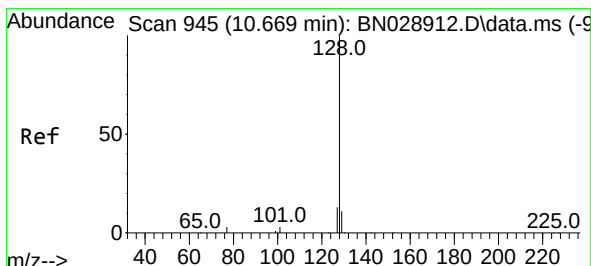
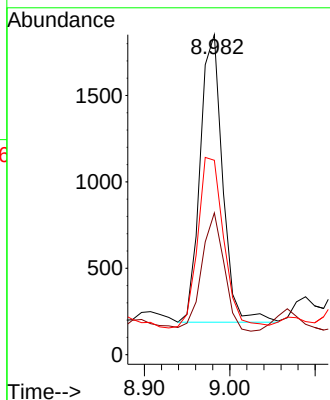
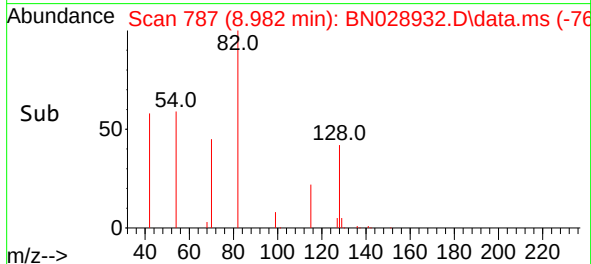
Tgt Ion: 82 Resp: 3050
Ion Ratio Lower Upper
82 100
128 44.3 29.2 43.8
54 60.7 47.0 70.6

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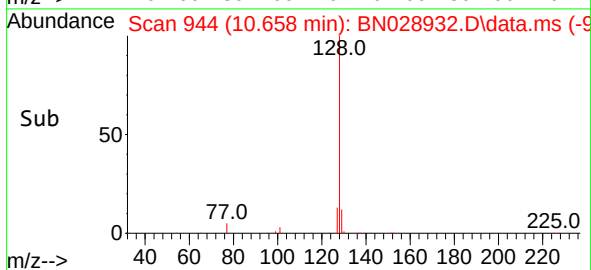
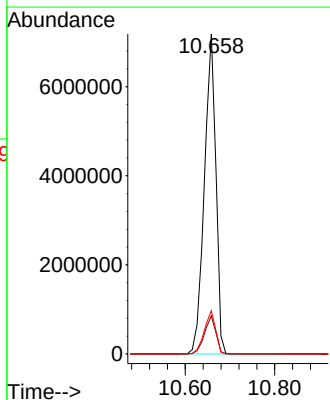
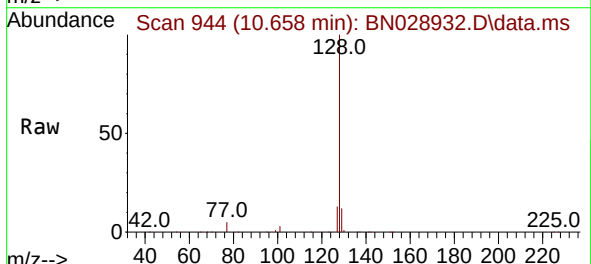
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ahmed

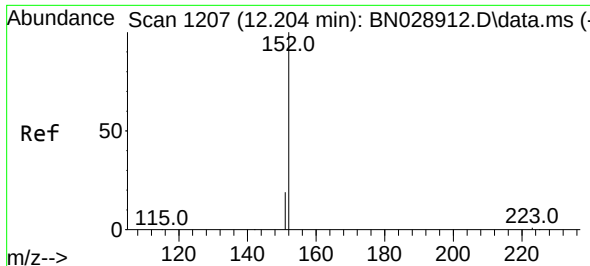
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#9
Naphthalene
Concen: 287.921 ng
RT: 10.658 min Scan# 944
Delta R.T. 0.011 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

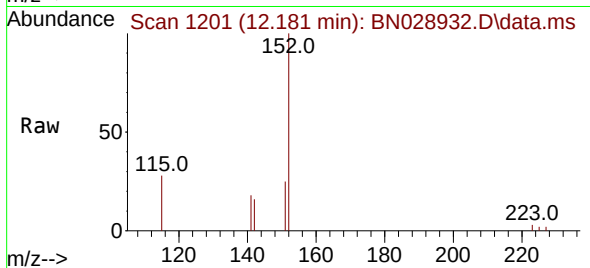
Tgt Ion:128 Resp:12761737
Ion Ratio Lower Upper
128 100
129 11.9 9.5 14.3
127 13.5 11.0 16.4





#11
2-Methylnaphthalene-d10
Concen: 0.235 ng
RT: 12.181 min Scan# 11
Delta R.T. -0.004 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

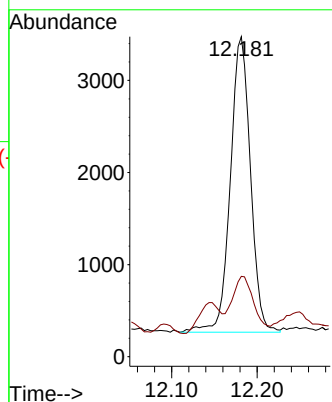
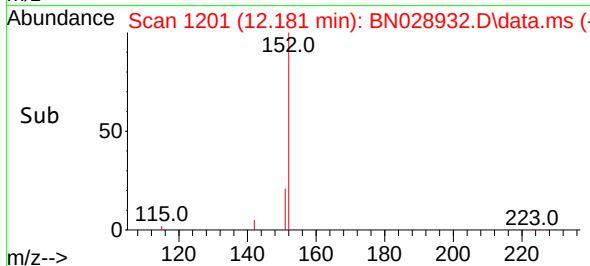
Instrument :
BNA_N
ClientSampleId :
P-4(170FT)(5-10)



Tgt Ion:152 Resp: 525
Ion Ratio Lower Upper
152 100
151 21.2 16.7 25.1

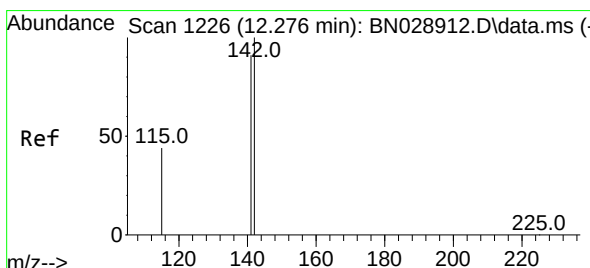
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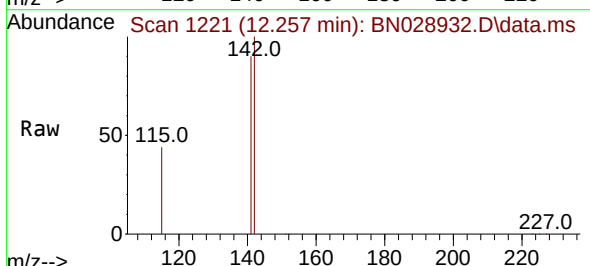


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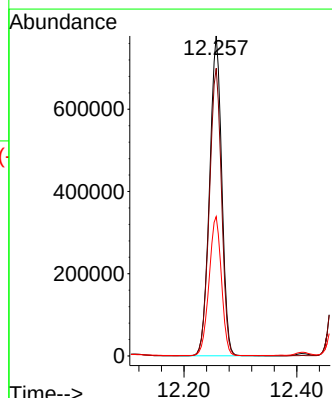
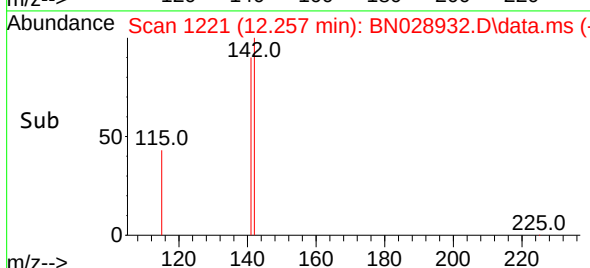
12/01/2023

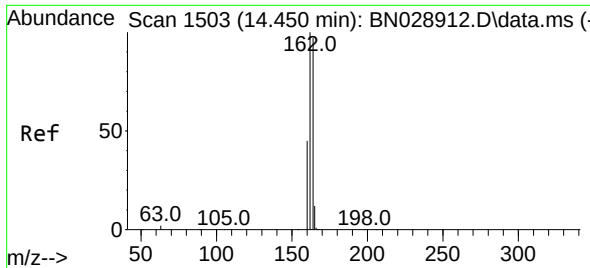


#12
2-Methylnaphthalene
Concen: 41.737 ng
RT: 12.257 min Scan# 1221
Delta R.T. -0.000 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45



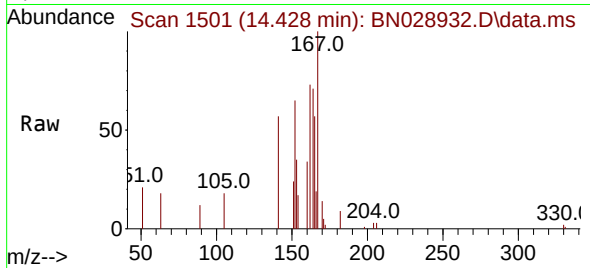
Tgt Ion:142 Resp: 1162447
Ion Ratio Lower Upper
142 100
141 89.9 73.1 109.7
115 43.6 37.6 56.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.428 min Scan# 1501
Delta R.T. -0.000 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

Instrument :
BNA_N
ClientSampleId :
P-4(170FT)(5-10)



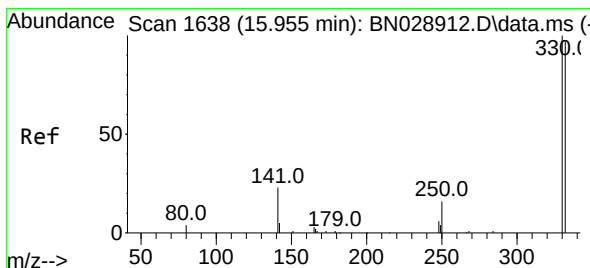
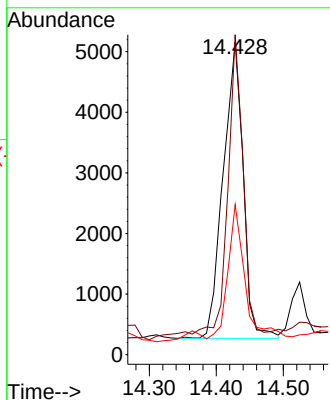
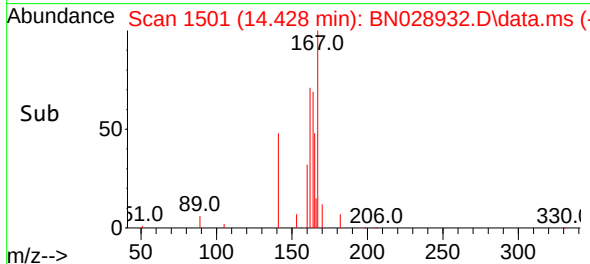
Tgt Ion:164 Resp: 10130
Ion Ratio Lower Upper
164 100
162 102.3 81.7 122.5
160 48.0 37.0 55.6

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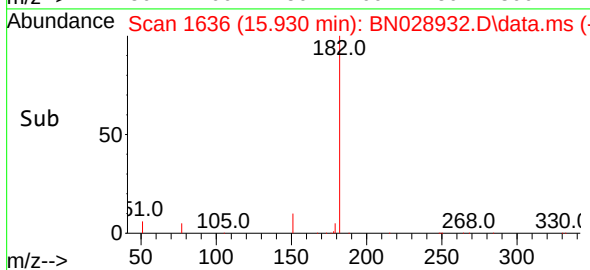
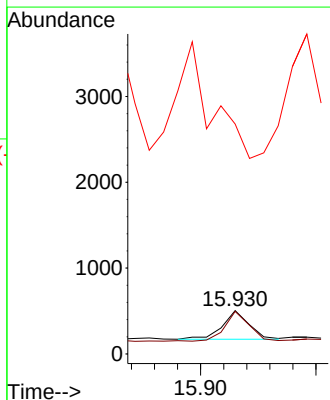
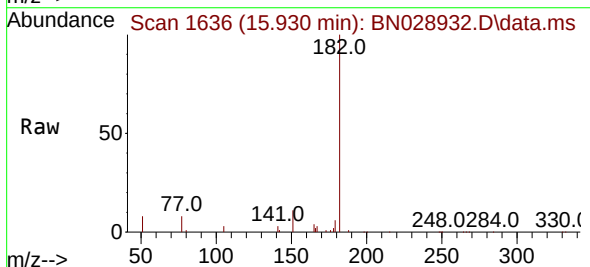
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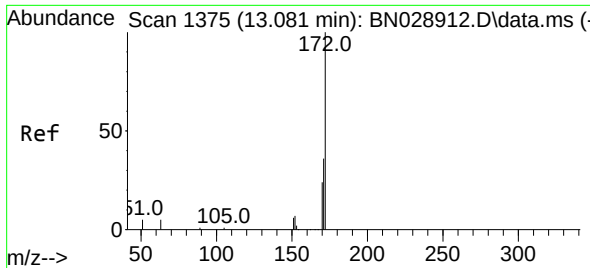
12/01/2023



#14
2,4,6-Tribromophenol
Concen: 0.078 ng
RT: 15.930 min Scan# 1636
Delta R.T. -0.000 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

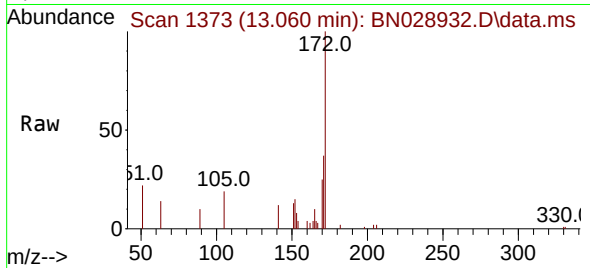
Tgt Ion:330 Resp: 531
Ion Ratio Lower Upper
330 100
332 96.4 75.4 113.2
141 0.0 35.7 53.5#





#15
2-Fluorobiphenyl
Concen: 0.149 ng
RT: 13.060 min Scan# 1375
Delta R.T. -0.011 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

Instrument :
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ClientSampleId :
P-4(170FT)(5-10)



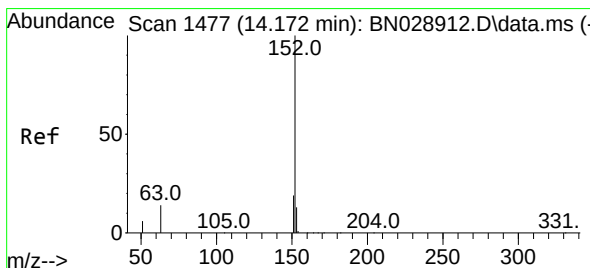
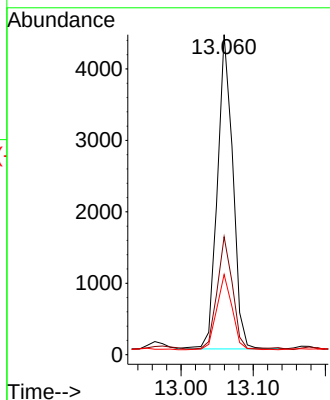
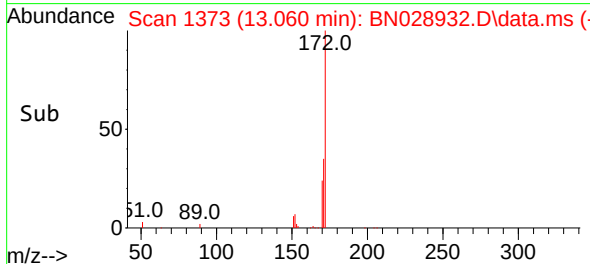
Tgt Ion:172 Resp: 6504
Ion Ratio Lower Upper
172 100
171 36.9 29.0 43.4
170 25.1 19.7 29.5

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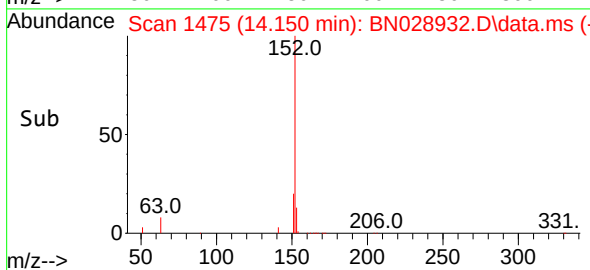
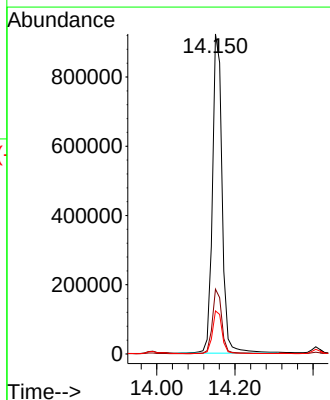
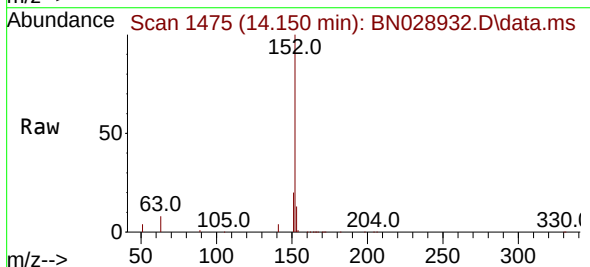
12/01/2023
Supervised By :mohammad
ahmed

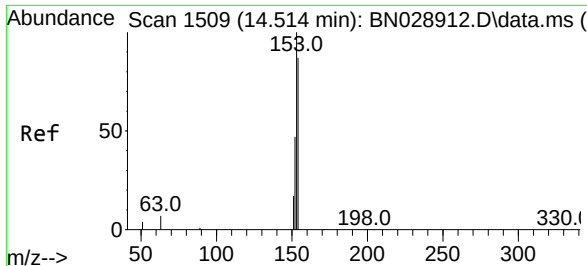
12/01/2023



#16
Acenaphthylene
Concen: 29.643 ng
RT: 14.150 min Scan# 1475
Delta R.T. -0.000 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

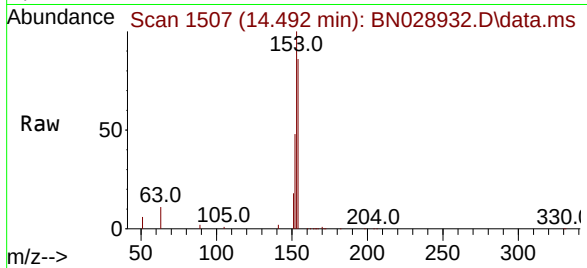
Tgt Ion:152 Resp: 1591685
Ion Ratio Lower Upper
152 100
151 19.8 15.9 23.9
153 13.3 10.8 16.2





#17
Acenaphthene
Concen: 6.544 ng
RT: 14.492 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN028932.D
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Instrument :
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ClientSampleId :
P-4(170FT)(5-10)



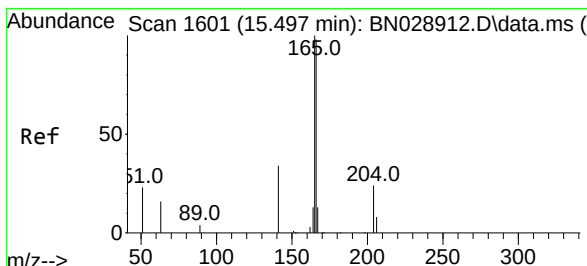
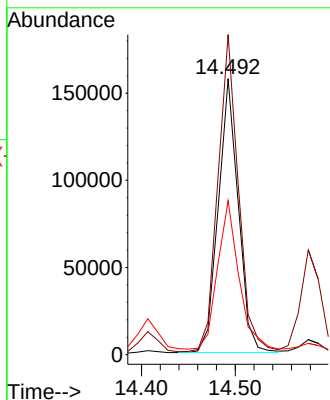
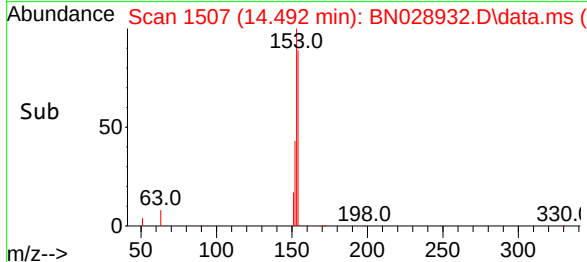
Tgt Ion:154 Resp: 233230
Ion Ratio Lower Upper
154 100
153 118.1 93.8 140.6
152 57.4 44.5 66.7

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Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023

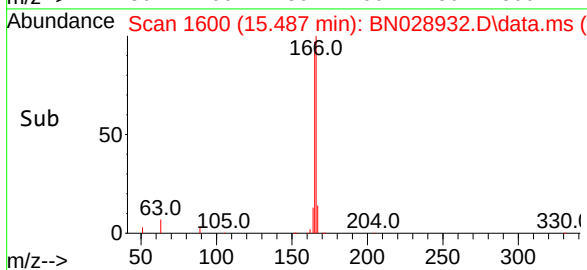
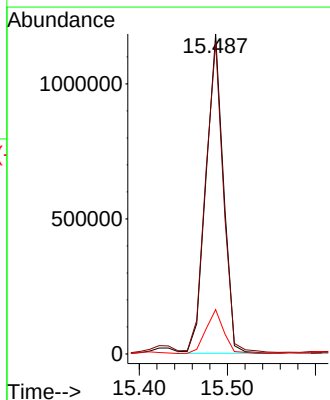
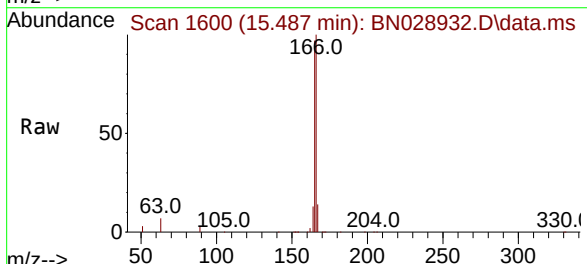
12/01/2023
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ahmed

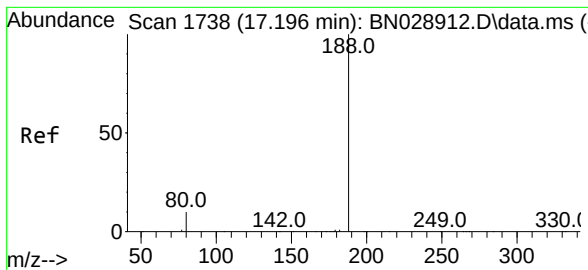
12/01/2023



#18
Fluorene
Concen: 38.209 ng
RT: 15.487 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

Tgt Ion:166 Resp: 1723889
Ion Ratio Lower Upper
166 100
165 99.0 79.4 119.2
167 13.9 11.0 16.4





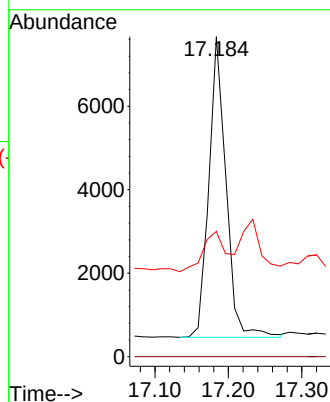
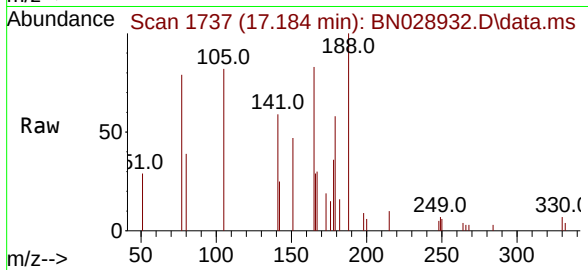
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.184 min Scan# 11679
Delta R.T. -0.000 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

Instrument :
BNA_N
ClientSampleId :
P-4(170FT)(5-10)

Tgt Ion:188 Resp: 11679
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 39.1 9.0 13.6

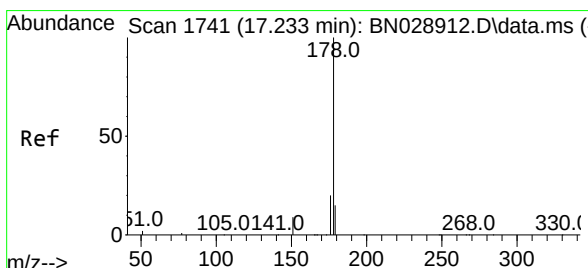
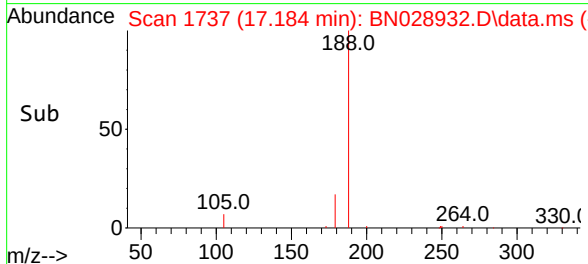
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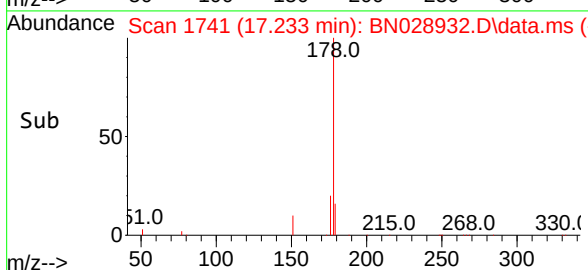
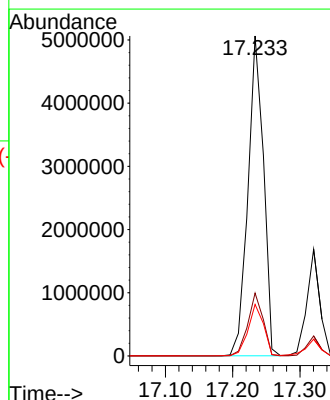
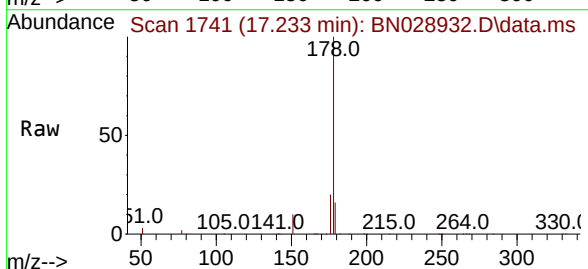
12/01/2023
Supervised By :mohammad
ahmed

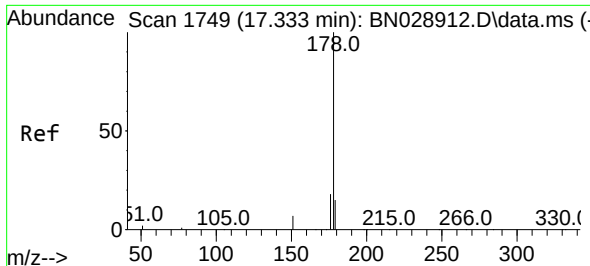
12/01/2023



#25
Phenanthrene
Concen: 210.608 ng
RT: 17.233 min Scan# 1741
Delta R.T. 0.012 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

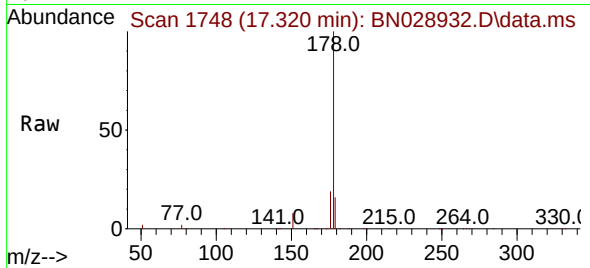
Tgt Ion:178 Resp: 8121374
Ion Ratio Lower Upper
178 100
176 19.3 16.4 24.6
179 16.1 14.1 21.1





#26
 Anthracene
 Concen: 62.401 ng
 RT: 17.320 min Scan# 11
 Delta R.T. 0.012 min
 Lab File: BN028932.D
 Acq: 01 Dec 2023 04:45

Instrument :
 BNA_N
 ClientSampleId :
 P-4(170FT)(5-10)



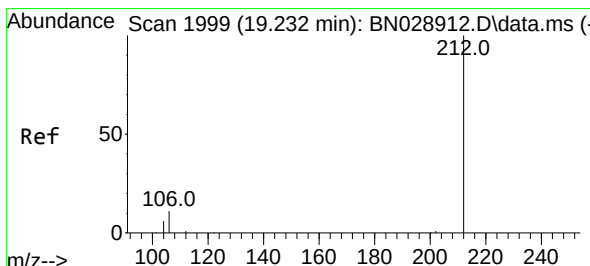
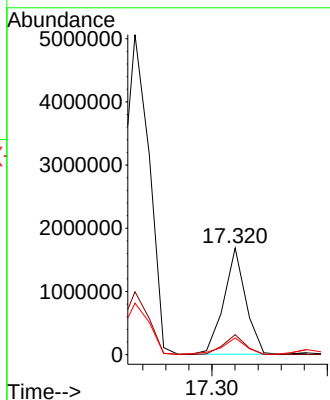
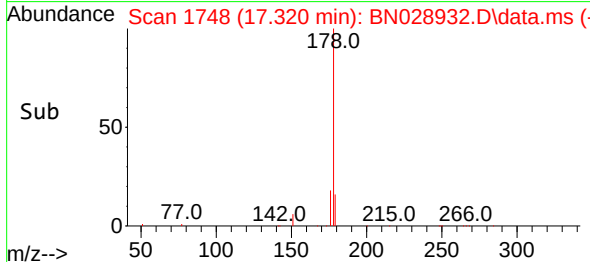
Tgt Ion:178 Resp: 222418
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.2 22.8
 179 16.7 12.2 18.2

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 Supervised By :mohammad ahmed 12/01/2023

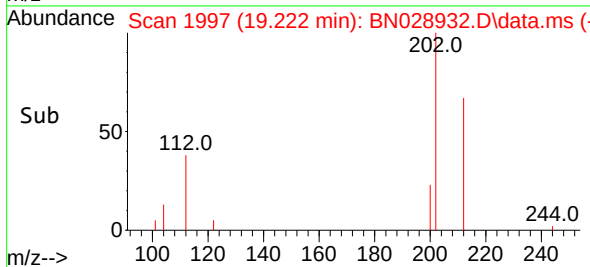
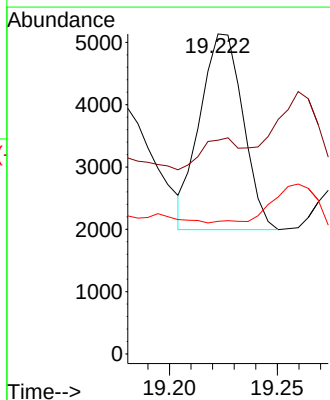
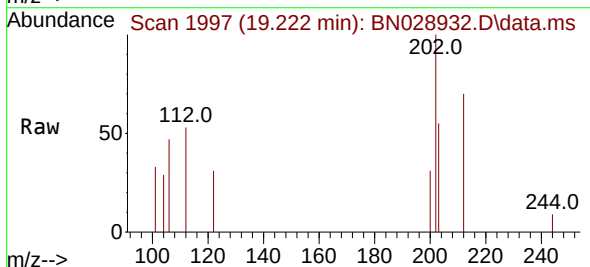
12/01/2023
 Supervised By :mohammad
 ahmed

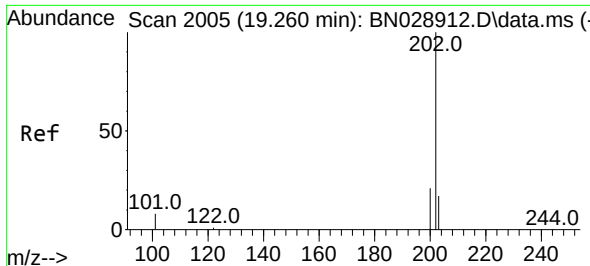
12/01/2023



#27
 Fluoranthene-d10
 Concen: 0.142 ng
 RT: 19.222 min Scan# 1997
 Delta R.T. 0.009 min
 Lab File: BN028932.D
 Acq: 01 Dec 2023 04:45

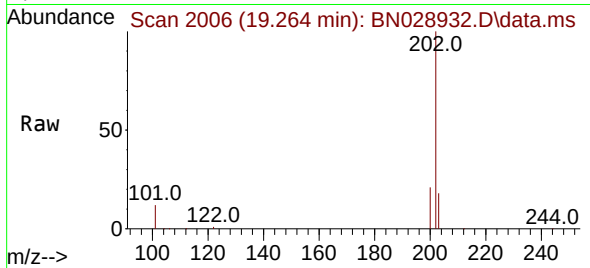
Tgt Ion:212 Resp: 4355
 Ion Ratio Lower Upper
 212 100
 106 21.3 9.4 14.2#
 104 0.0 6.2 9.2#





#28
Fluoranthene
Concen: 180.645 ng m
RT: 19.264 min Scan# 2005
Delta R.T. 0.018 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

Instrument :
BNA_N
ClientSampleId :
P-4(170FT)(5-10)



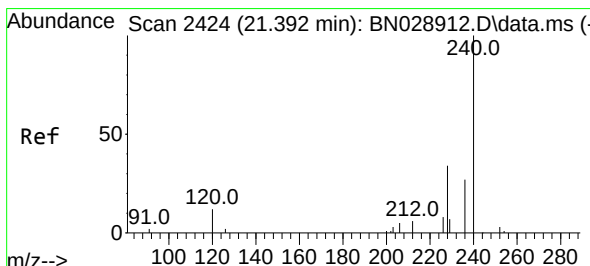
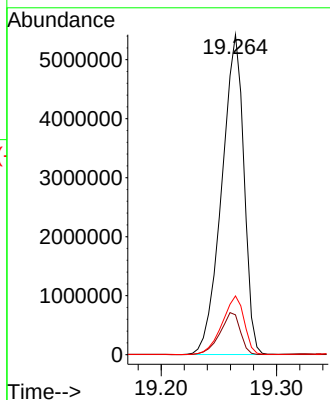
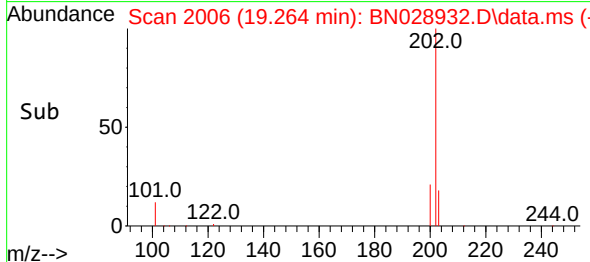
Tgt Ion:202 Resp: 7243724
Ion Ratio Lower Upper
202 100
101 0.6 7.3 10.9#
203 1.4 14.1 21.1#

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Supervised By :mohammad ahmed 12/01/2023

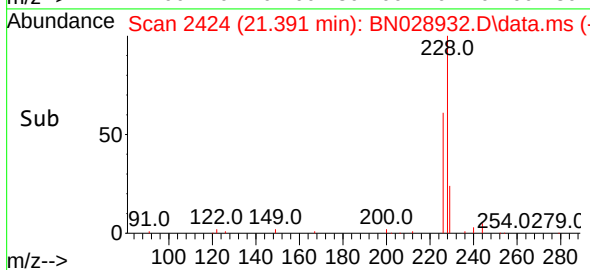
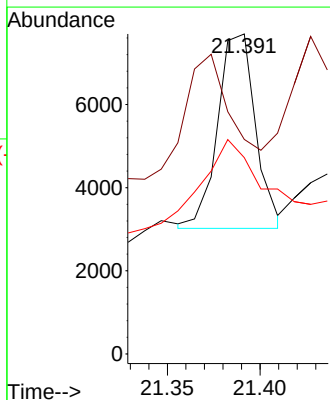
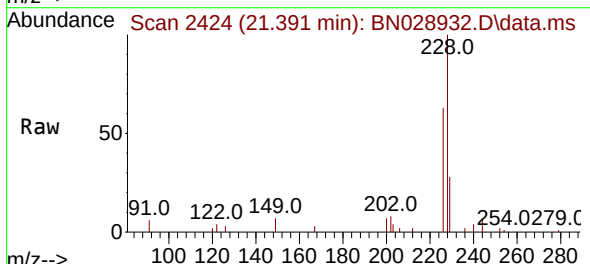
12/01/2023
Supervised By :mohammad
ahmed

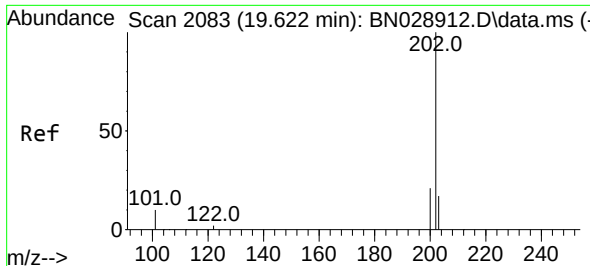
12/01/2023



#29
Chrysene-d12
Concen: 0.400 ng m
RT: 21.391 min Scan# 2424
Delta R.T. 0.018 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

Tgt Ion:240 Resp: 6647
Ion Ratio Lower Upper
240 100
120 67.0 37.1 55.7#
236 61.3 32.4 48.6#





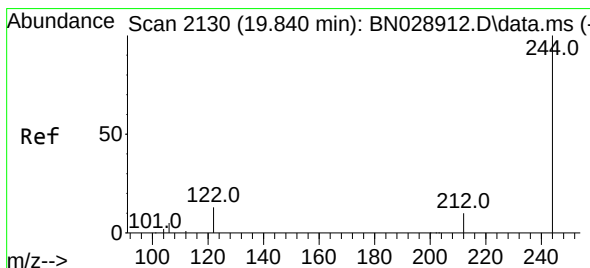
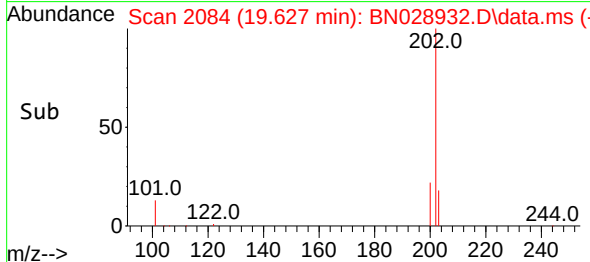
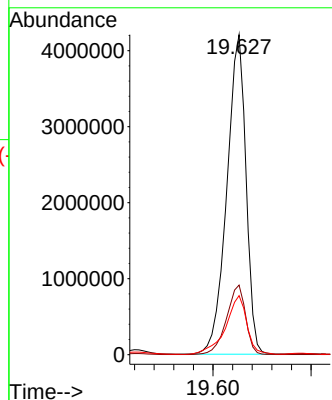
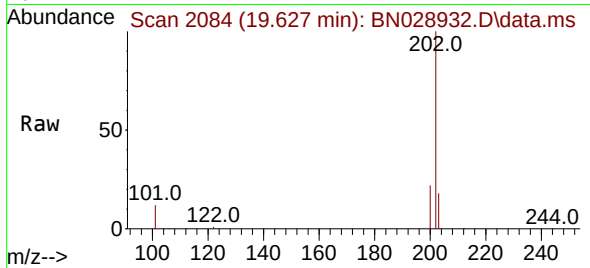
#30
Pyrene
Concen: 112.330 ng
RT: 19.627 min Scan# 2083
Delta R.T. 0.018 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

Instrument :
BNA_N
ClientSampleId :
P-4(170FT)(5-10)

Tgt Ion:202 Resp: 570764
Ion Ratio Lower Upper
202 100
200 21.7 16.9 25.3
203 20.2 14.8 22.2

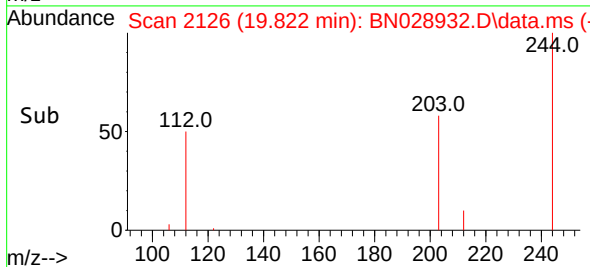
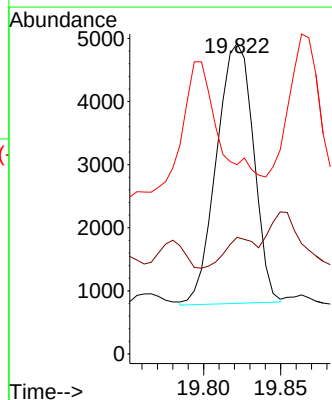
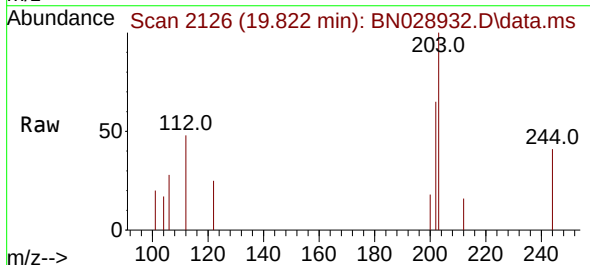
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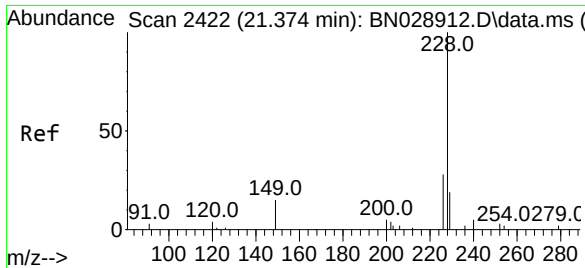
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023



#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.822 min Scan# 2126
Delta R.T. -0.000 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

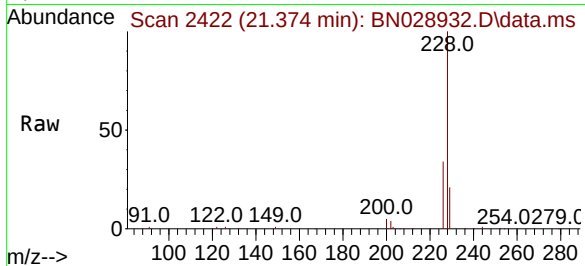
Tgt Ion:244 Resp: 6901
Ion Ratio Lower Upper
244 100
212 37.6 11.5 17.3#
122 61.0 13.2 19.8#





#32
Benzo(a)anthracene
Concen: 95.846 ng
RT: 21.374 min Scan# 2422
Delta R.T. 0.018 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

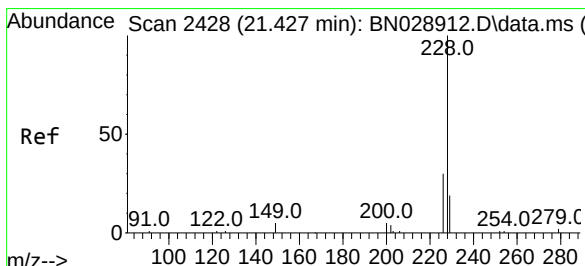
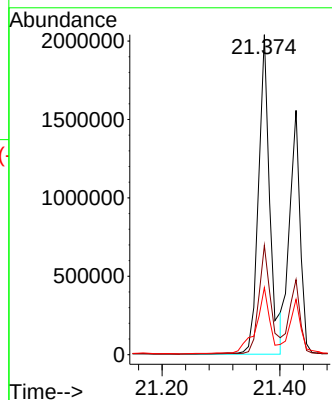
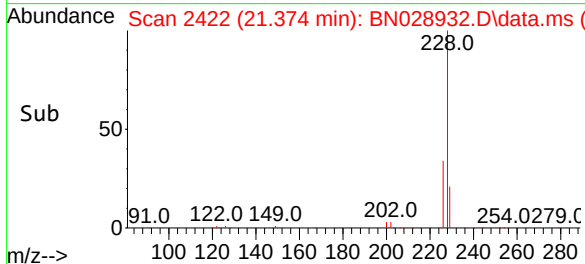
Instrument :
BNA_N
ClientSampleId :
P-4(170FT)(5-10)



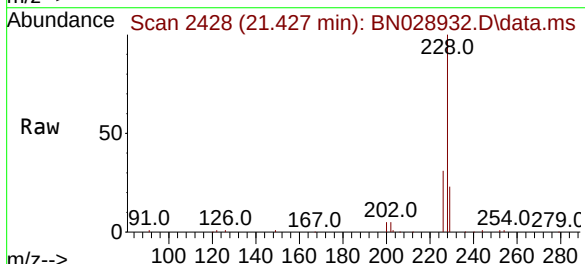
Tgt Ion:228 Resp: 270878
Ion Ratio Lower Upper
228 100
226 34.1 26.5 39.7
229 21.0 16.4 24.6

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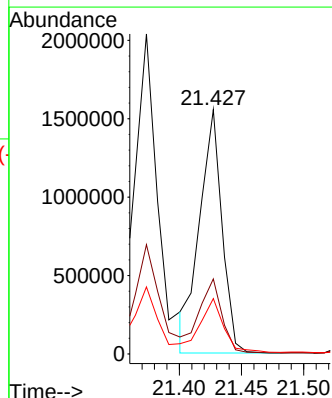
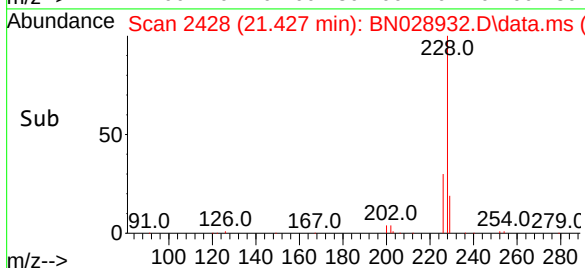
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023

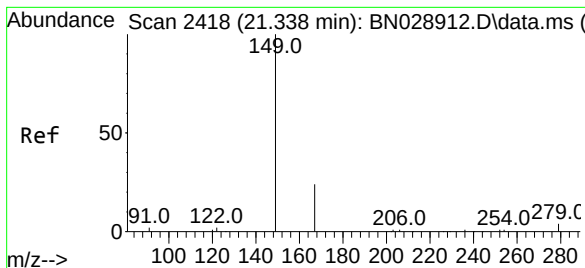


#33
Chrysene
Concen: 70.006 ng
RT: 21.427 min Scan# 2428
Delta R.T. 0.018 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45



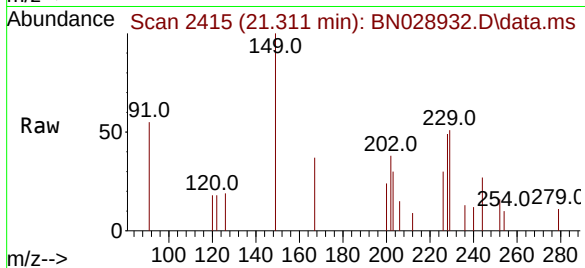
Tgt Ion:228 Resp: 1942540
Ion Ratio Lower Upper
228 100
226 30.7 28.3 42.5
229 22.7 16.4 24.6





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.355 ng
RT: 21.311 min Scan# 2415
Delta R.T. -0.000 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

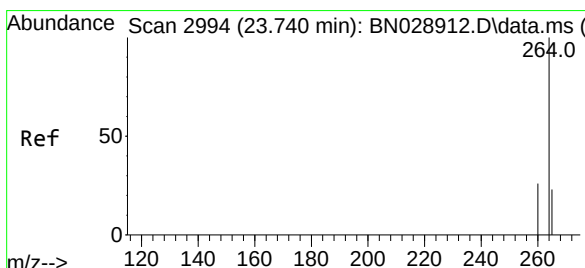
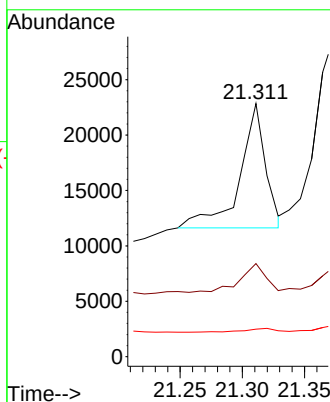
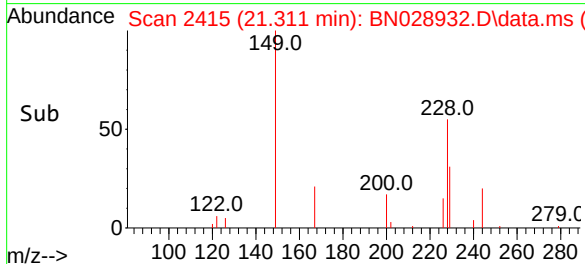
Instrument :
BNA_N
ClientSampleId :
P-4(170FT)(5-10)



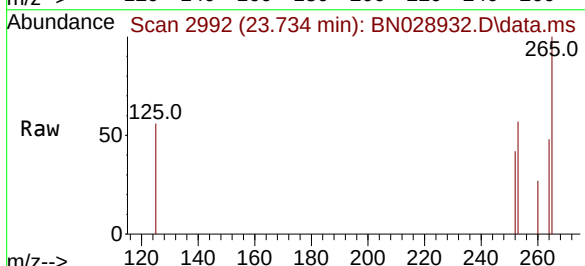
Tgt Ion:149 Resp: 1613
Ion Ratio Lower Upper
149 100
167 25.0 14.9 22.3#
279 3.7 6.3 9.5#

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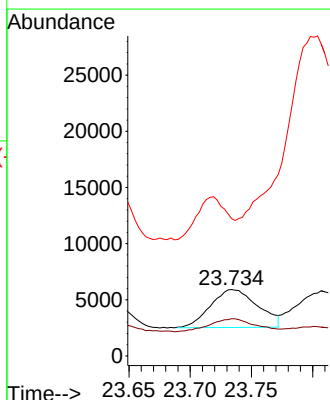
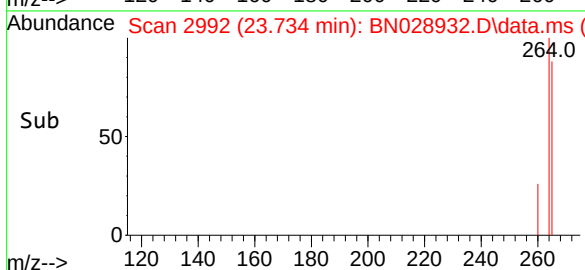
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023

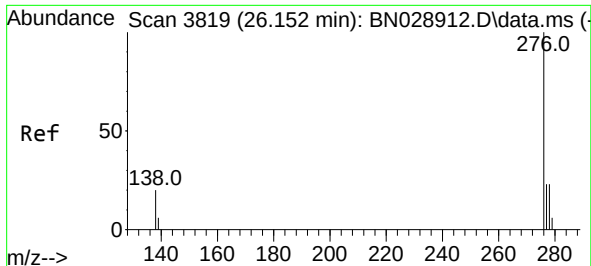


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.734 min Scan# 2992
Delta R.T. 0.020 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45



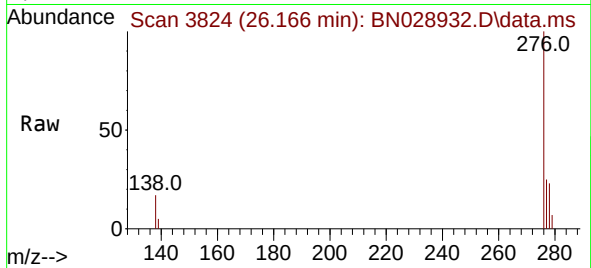
Tgt Ion:264 Resp: 9120
Ion Ratio Lower Upper
264 100
260 56.1 20.6 30.8#
265 206.7 464.5 696.7#





#36
Indeno(1,2,3-cd)pyrene
Concen: 28.631 ng
RT: 26.166 min Scan# 3819
Delta R.T. 0.055 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

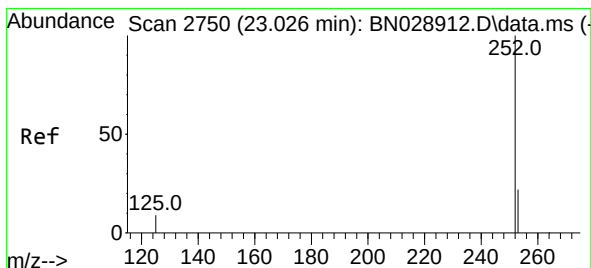
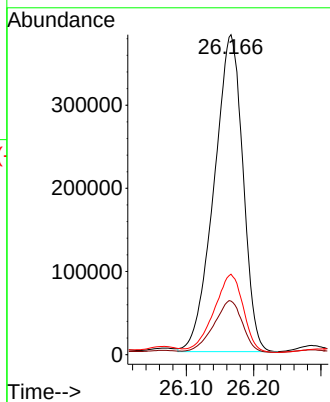
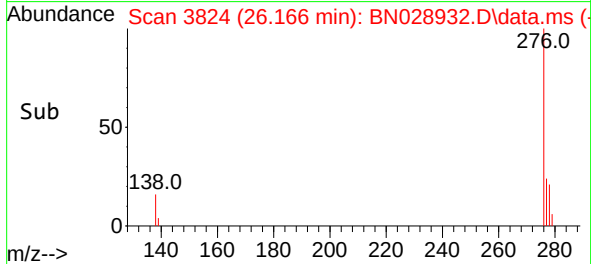
Instrument :
BNA_N
ClientSampleId :
P-4(170FT)(5-10)



Tgt Ion:276 Resp: 113781
Ion Ratio Lower Upper
276 100
138 16.2 20.9 31.3#
277 25.0 20.2 30.4#

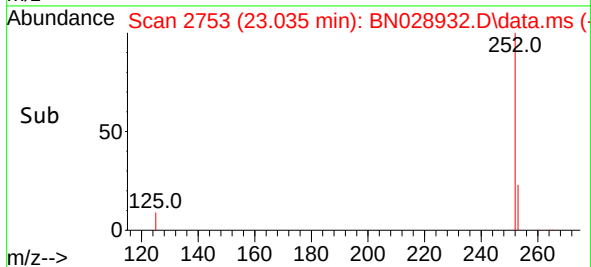
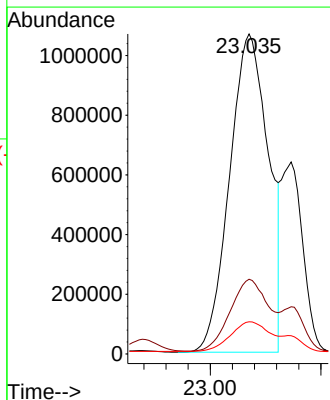
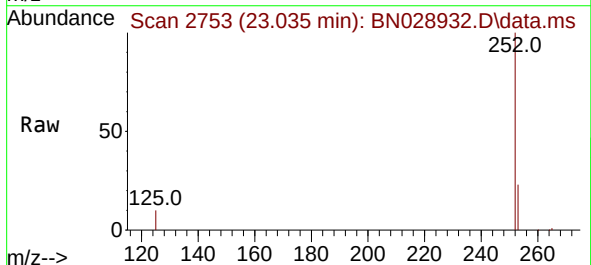
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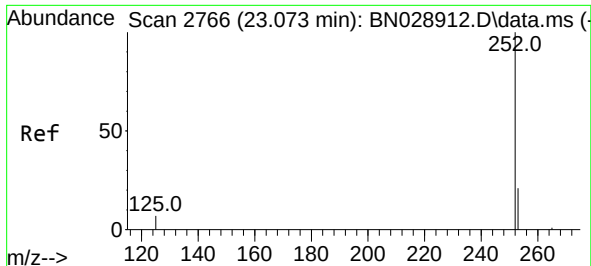
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023



#37
Benzo(b)fluoranthene
Concen: 69.686 ng
RT: 23.035 min Scan# 2753
Delta R.T. 0.032 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

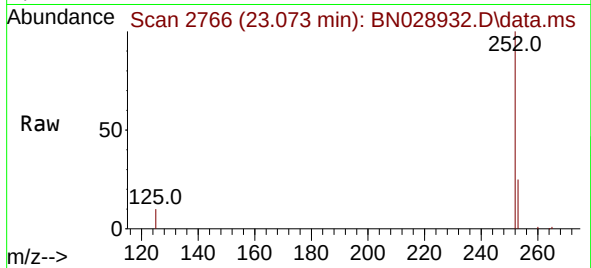
Tgt Ion:252 Resp: 2600044
Ion Ratio Lower Upper
252 100
253 23.4 94.5 141.7#
125 10.0 23.8 35.8#





#38
Benzo(k)fluoranthene
Concen: 24.563 ng m
RT: 23.073 min Scan# 21
Delta R.T. 0.023 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

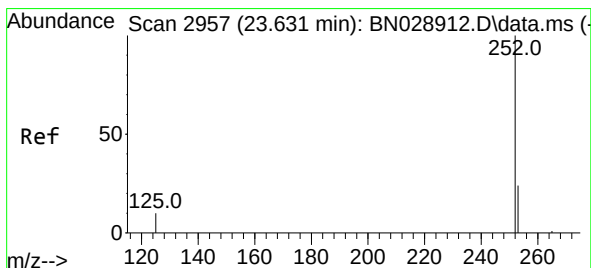
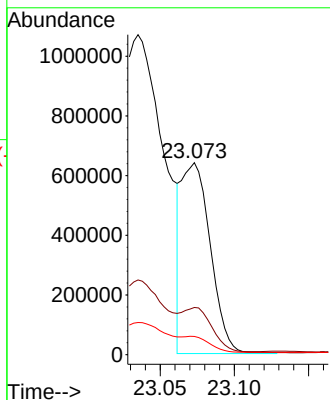
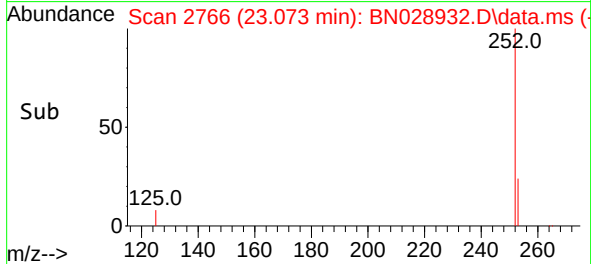
Instrument :
BNA_N
ClientSampleId :
P-4(170FT)(5-10)



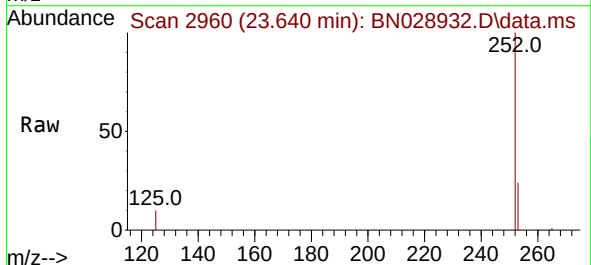
Tgt Ion:252 Resp: 86469
Ion Ratio Lower Upper
252 100
253 24.6 95.2 142.8#
125 9.5 24.3 36.5#

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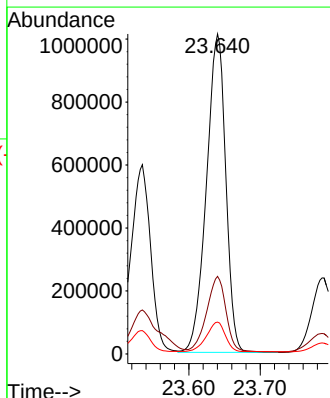
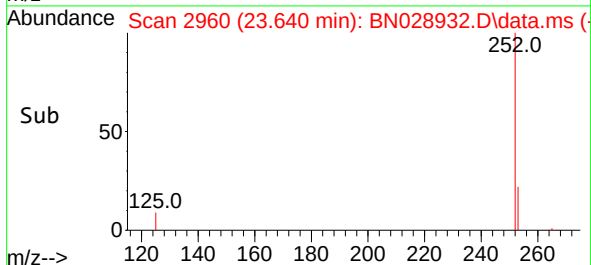
Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023

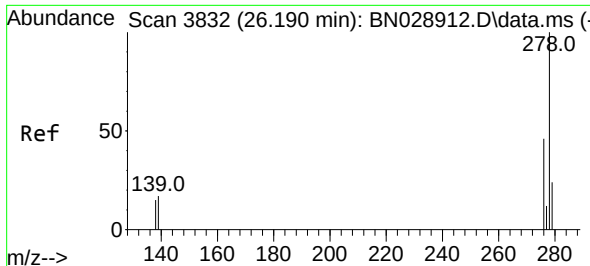


#39
Benzo(a)pyrene
Concen: 56.924 ng
RT: 23.640 min Scan# 2960
Delta R.T. 0.035 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45



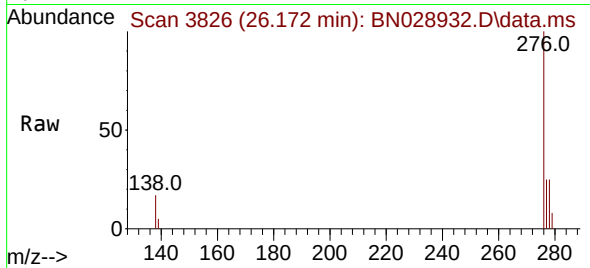
Tgt Ion:252 Resp: 1896965
Ion Ratio Lower Upper
252 100
253 24.3 110.2 165.4#
125 10.0 27.0 40.4#





#40
Dibenzo(a,h)anthracene
Concen: 9.286 ng
RT: 26.172 min Scan# 3826
Delta R.T. 0.032 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45

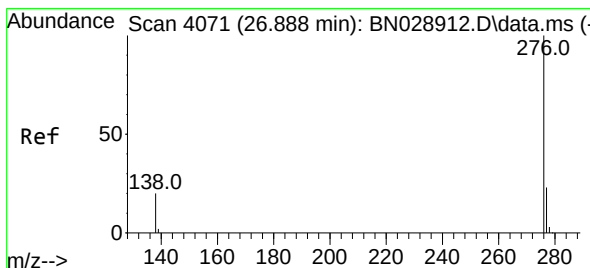
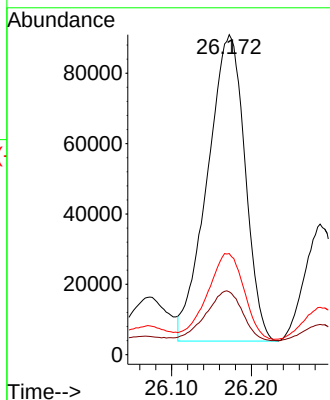
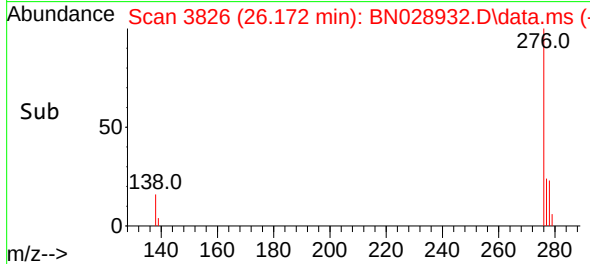
Instrument :
BNA_N
ClientSampleId :
P-4(170FT)(5-10)



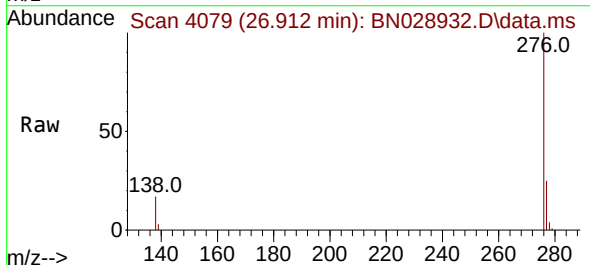
Tgt Ion:278 Resp: 28558
Ion Ratio Lower Upper
278 100
139 19.7 22.6 33.8
279 31.6 102.6 153.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/01/2023
Supervised By :mohammad ahmed 12/01/2023



#41
Benzo(g,h,i)perylene
Concen: 29.148 ng
RT: 26.912 min Scan# 4079
Delta R.T. 0.070 min
Lab File: BN028932.D
Acq: 01 Dec 2023 04:45



Tgt Ion:276 Resp: 1008320
Ion Ratio Lower Upper
276 100
277 24.6 28.9 43.3#
138 16.6 36.2 54.2#

