

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122023\
 Data File : BN029144.D
 Acq On : 20 Dec 2023 20:49
 Operator : MA/JU
 Sample : 05366-02RE
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 P-14(10-15)RE

Quant Time: Dec 21 01:10:56 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN122023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 20 18:03:30 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/21/2023
 Supervised By :mohammad ahmed 12/21/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.789	152	1360	0.400	ng	0.00
7) Naphthalene-d8	10.573	136	2439	0.400	ng	-0.01
13) Acenaphthene-d10	14.425	164	1298	0.400	ng	0.00
19) Phenanthrene-d10	17.181	188	2355	0.400	ng	# 0.00
29) Chrysene-d12	21.384	240	1421	0.400	ng	0.00
35) Perylene-d12	23.701	264	1571	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.413	112	738	0.227	ng	0.00
5) Phenol-d6	7.002	99	853	0.238	ng	0.00
8) Nitrobenzene-d5	8.961	82	697	0.219	ng	0.00
11) 2-Methylnaphthalene-d10	12.166	152	1029	0.278	ng	0.00
14) 2,4,6-Tribromophenol	15.927	330	186	0.164	ng	0.00
15) 2-Fluorobiphenyl	13.057	172	1628	0.215	ng	0.00
27) Fluoranthene-d10	19.215	212	1330	0.233	ng	0.00
31) Terphenyl-d14	19.824	244	708	0.181	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.626	128	6185	0.778	ng	96
12) 2-Methylnaphthalene	12.242	142	3197	0.615	ng	97
16) Acenaphthylene	14.148	152	3960	0.433	ng	# 95
17) Acenaphthene	14.490	154	1963	0.358	ng	96
18) Fluorene	15.473	166	3774	0.510	ng	99
25) Phenanthrene	17.218	178	15463	1.591	ng	96
26) Anthracene	17.305	178	5733	0.610	ng	97
28) Fluoranthene	19.248	202	12873	1.281	ng	# 95
30) Pyrene	19.610	202	12954	1.157	ng	99
32) Benzo(a)anthracene	21.367	228	3327	0.426	ng	96
33) Chrysene	21.420	228	2429	0.314	ng	98
34) Bis(2-ethylhexyl)phtha...	21.313	149	2114	0.184	ng	# 55
36) Indeno(1,2,3-cd)pyrene	26.075	276	3566	0.352	ng	# 72
37) Benzo(b)fluoranthene	23.002	252	4236	0.530	ng	94
38) Benzo(k)fluoranthene	23.043	252	1331m	0.170	ng	
39) Benzo(a)pyrene	23.598	252	3940m	0.553	ng	
40) Dibenzo(a,h)anthracene	26.081	278	782m	0.100	ng	
41) Benzo(g,h,i)perylene	26.809	276	3547	0.414	ng	92

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

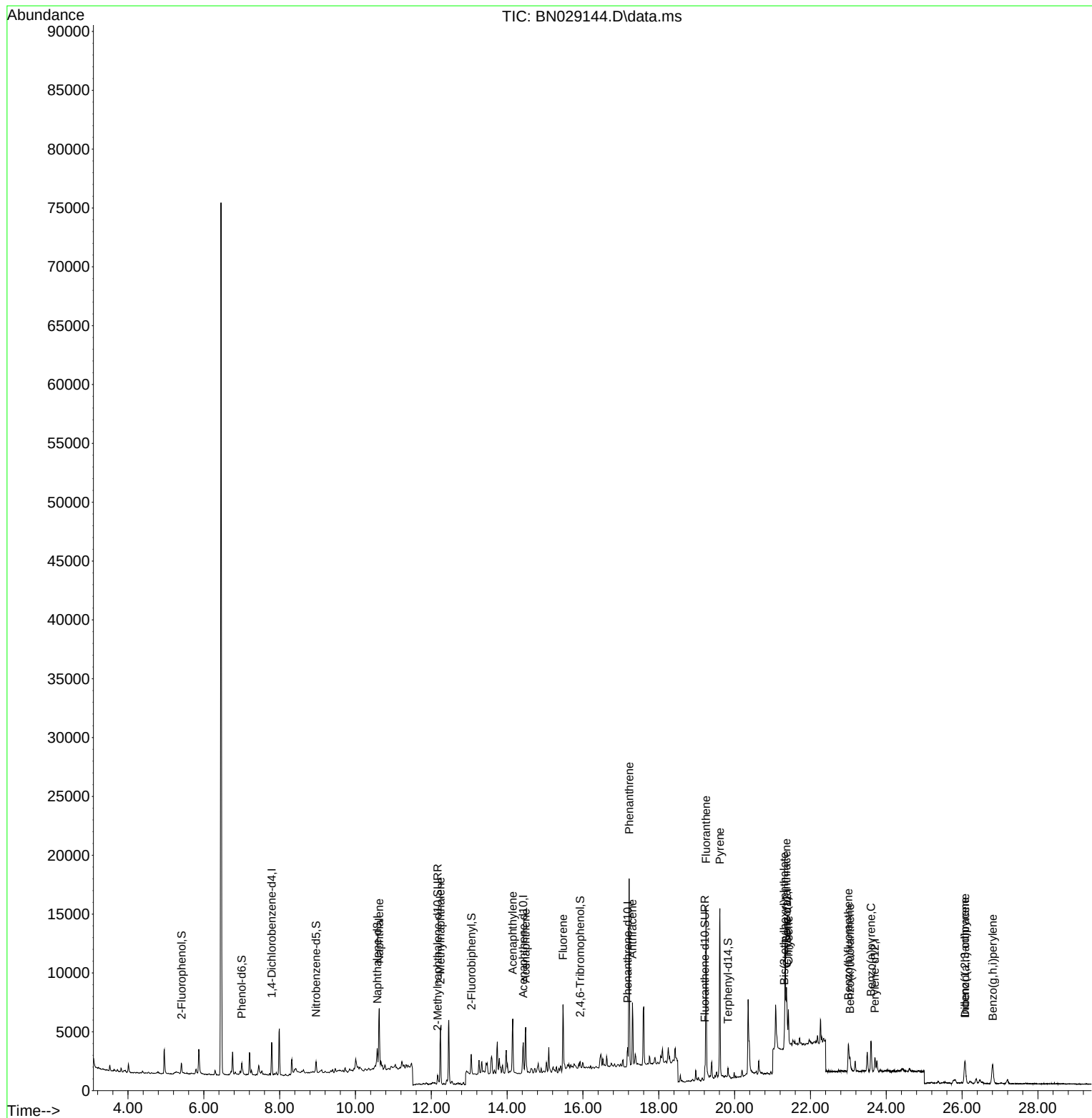
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN122023\
Data File : BN029144.D
Acq On : 20 Dec 2023 20:49
Operator : MA/JU
Sample : 05366-02RE
Misc :
ALS Vial : 16 Sample Multiplier: 1

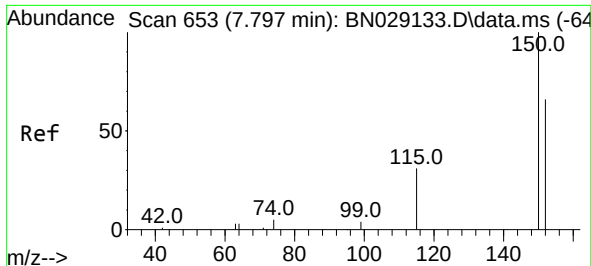
Instrument :
BNA_N
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P-14(10-15)RE

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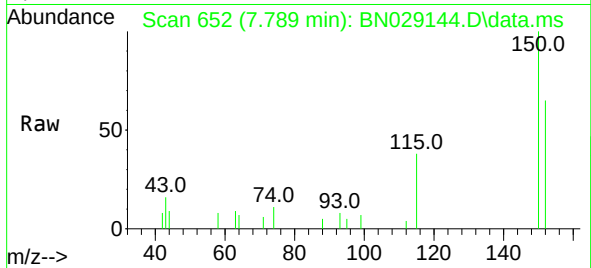
Quant Time: Dec 21 01:10:56 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN122023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 20 18:03:30 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.789 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

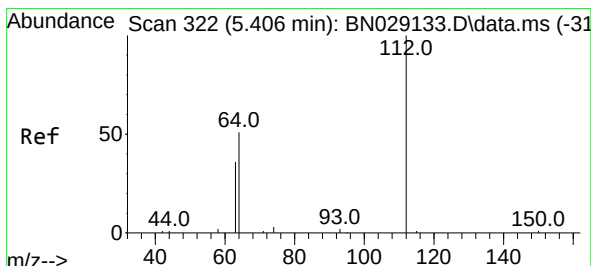
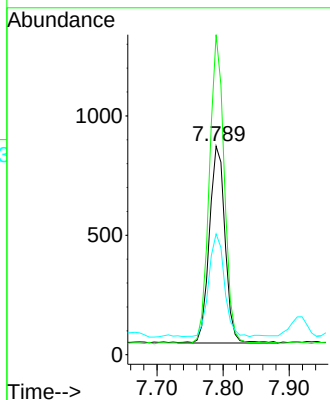
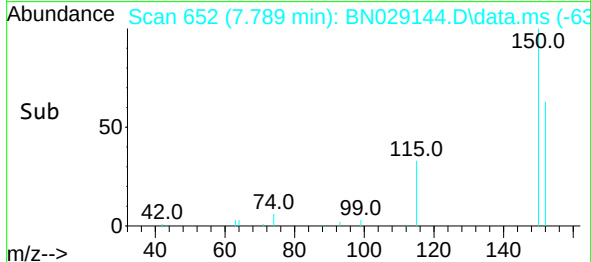
Instrument :
BNA_N
ClientSampleId :
P-14(10-15)RE



Tgt Ion:152 Resp: 1360
Ion Ratio Lower Upper
152 100
150 153.5 117.6 176.4
115 58.0 44.2 66.2

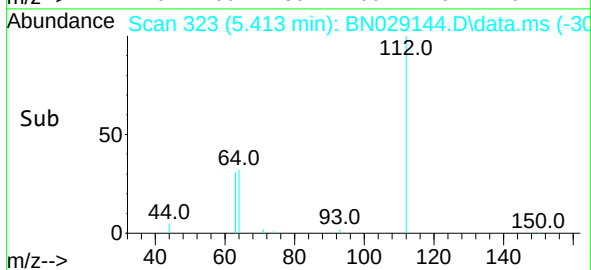
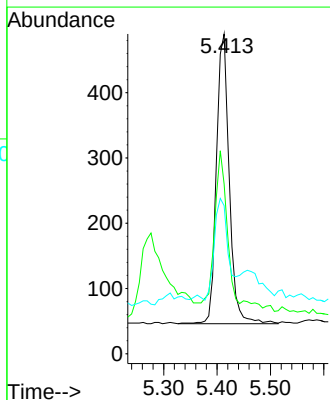
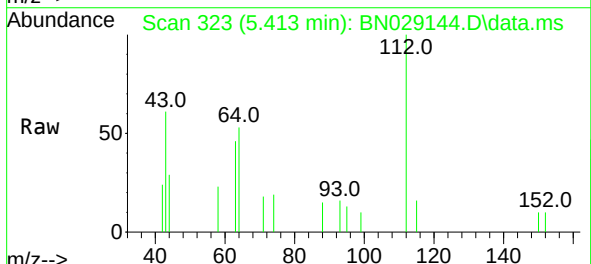
Manual Integrations
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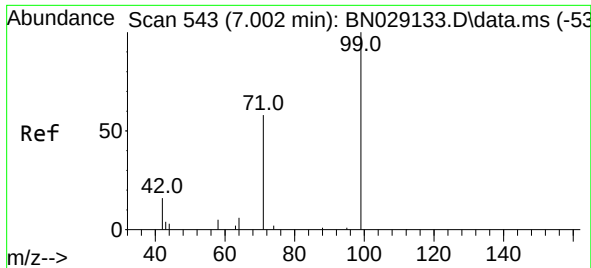
Reviewed By :Yogesh Patel 12/21/2023
Supervised By :mohammad ahmed 12/21/2023



#4
2-Fluorophenol
Concen: 0.227 ng
RT: 5.413 min Scan# 323
Delta R.T. 0.007 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

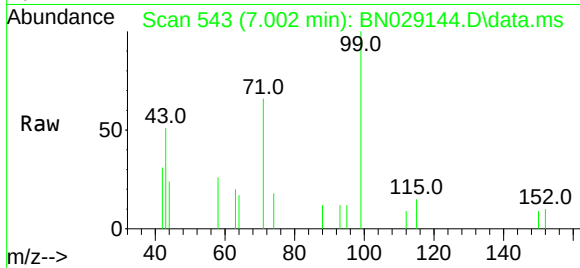
Tgt Ion:112 Resp: 738
Ion Ratio Lower Upper
112 100
64 59.1 38.6 58.0#
63 37.8 30.0 45.0





#5
Phenol-d6
Concen: 0.238 ng
RT: 7.002 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

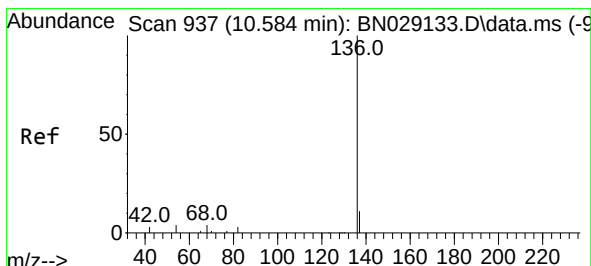
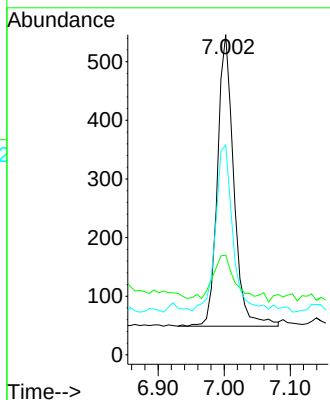
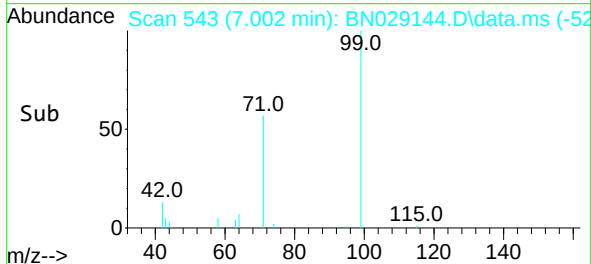
Instrument :
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ClientSampleId :
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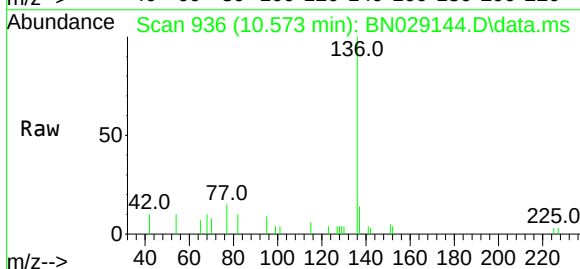
Tgt Ion: 99 Resp: 85
Ion Ratio Lower Upper
99 100
42 24.4 13.8 20.6
71 60.0 45.4 68.2

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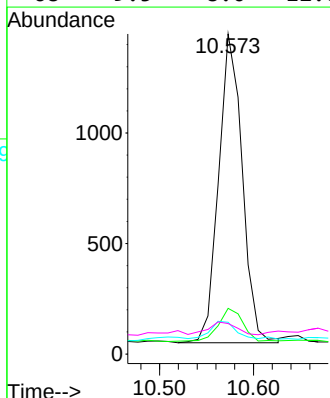
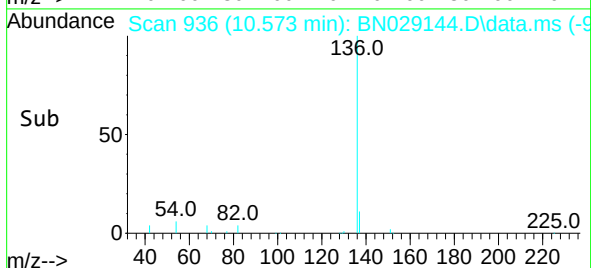
Reviewed By :Yogesh Patel 12/21/2023
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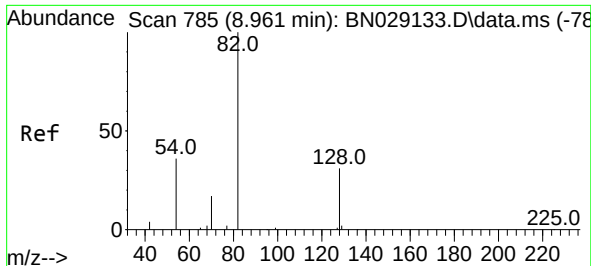


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 936
Delta R.T. -0.011 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49



Tgt Ion:136 Resp: 2439
Ion Ratio Lower Upper
136 100
137 14.3 13.4 20.0
54 9.9 8.6 13.0
68 9.5 8.0 12.0





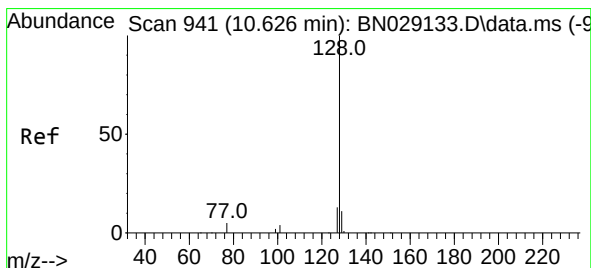
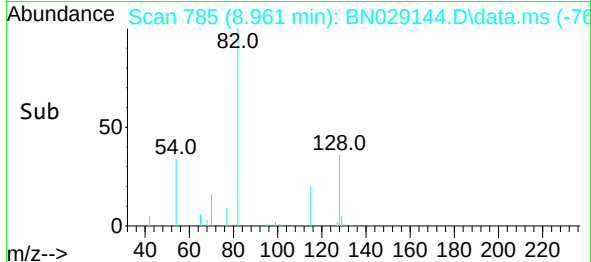
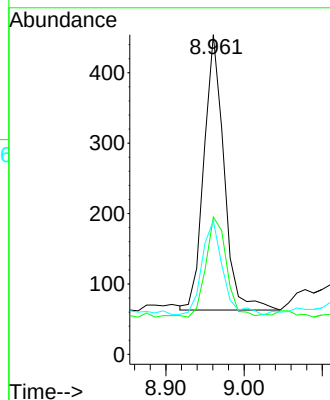
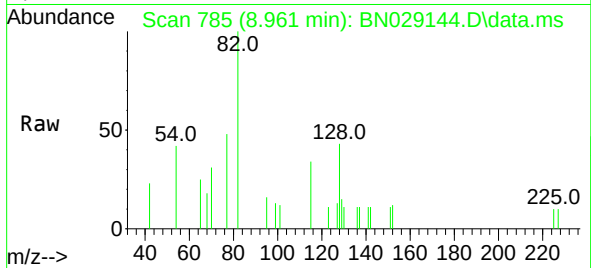
#8
Nitrobenzene-d5
Concen: 0.219 ng
RT: 8.961 min Scan# 785
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

Instrument :
BNA_N
ClientSampleId :
P-14(10-15)RE

Tgt Ion: 82 Resp: 69
Ion Ratio Lower Upper
82 100
128 43.0 33.0 49.4
54 41.9 35.8 53.8

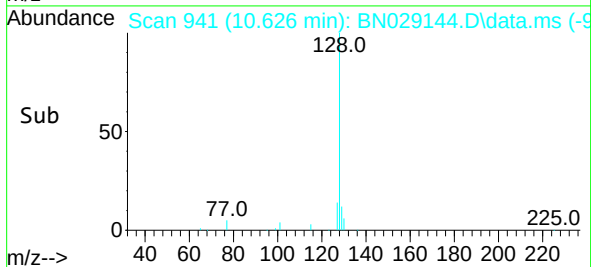
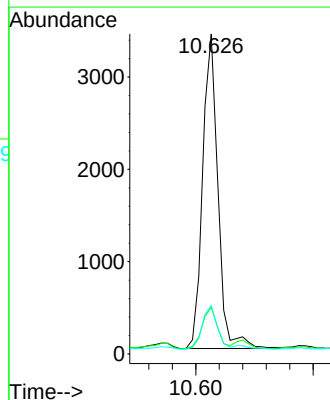
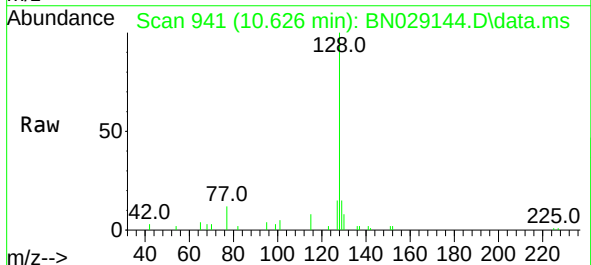
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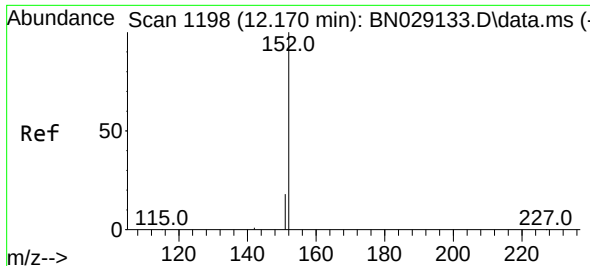
Reviewed By :Yogesh Patel 12/21/2023
Supervised By :mohammad ahmed 12/21/2023



#9
Naphthalene
Concen: 0.778 ng
RT: 10.626 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

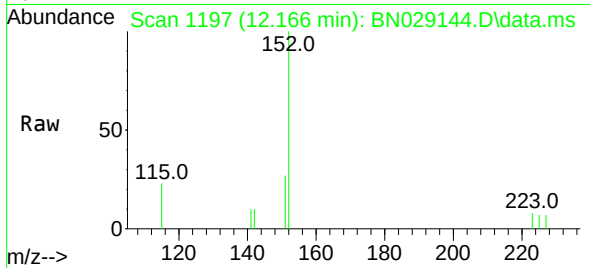
Tgt Ion:128 Resp: 6185
Ion Ratio Lower Upper
128 100
129 14.6 12.0 18.0
127 15.1 14.1 21.1





#11
2-Methylnaphthalene-d10
Concen: 0.278 ng
RT: 12.166 min Scan# 1197
Delta R.T. -0.004 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

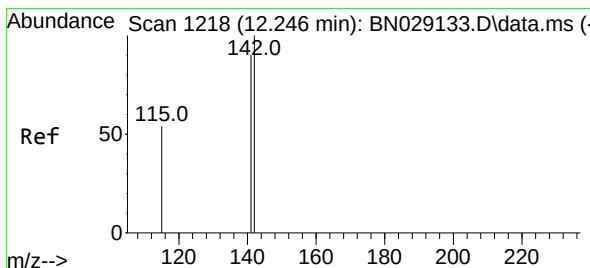
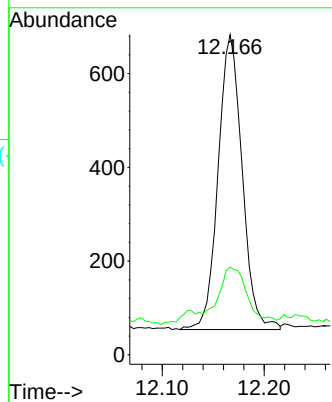
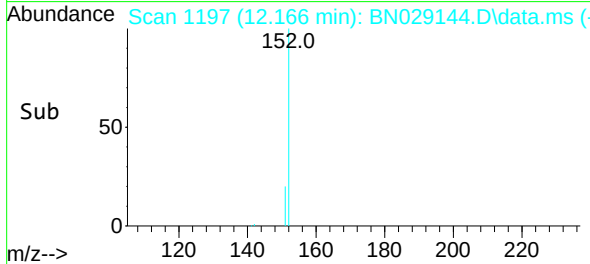
Instrument :
BNA_N
ClientSampleId :
P-14(10-15)RE



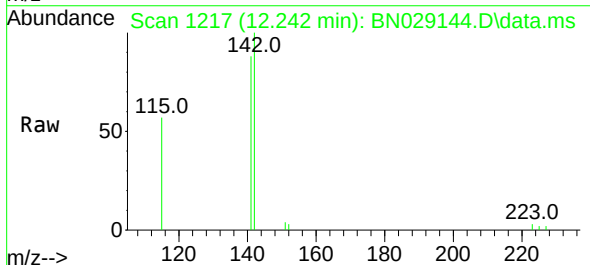
Tgt Ion:152 Resp: 1029
Ion Ratio Lower Upper
152 100
151 19.8 17.4 26.2

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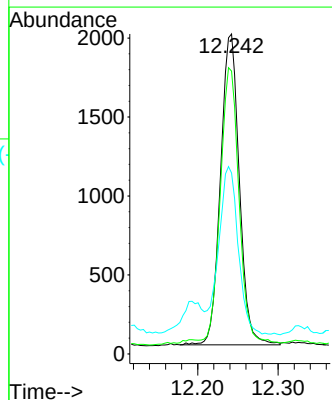
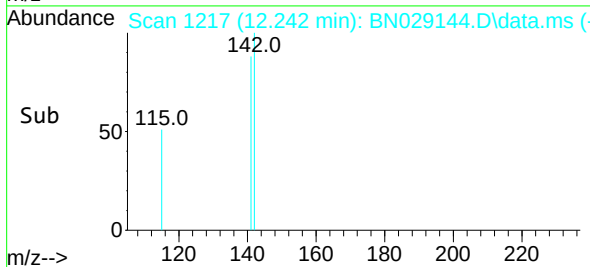
Reviewed By :Yogesh Patel 12/21/2023
Supervised By :mohammad ahmed 12/21/2023

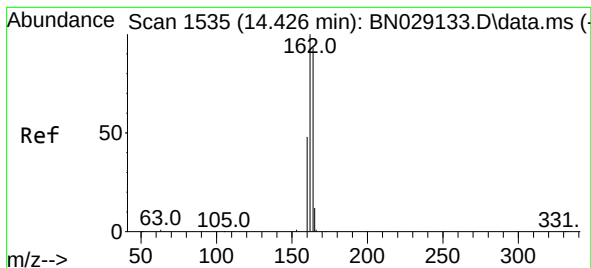


#12
2-Methylnaphthalene
Concen: 0.615 ng
RT: 12.242 min Scan# 1217
Delta R.T. -0.004 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49



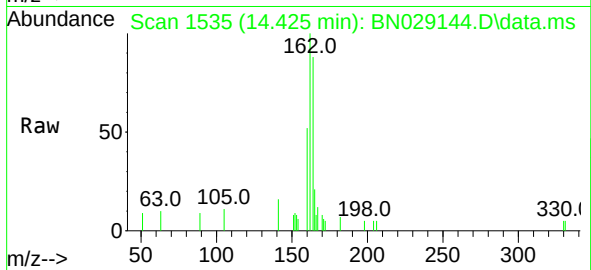
Tgt Ion:142 Resp: 3197
Ion Ratio Lower Upper
142 100
141 88.4 73.0 109.4
115 56.6 46.8 70.2





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.425 min Scan# 1535
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

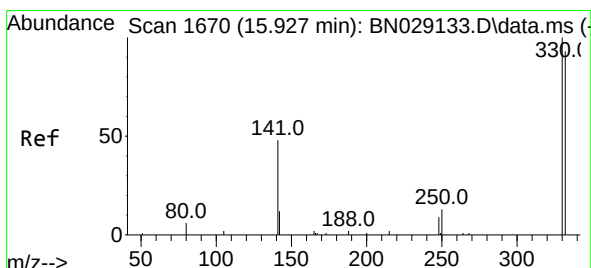
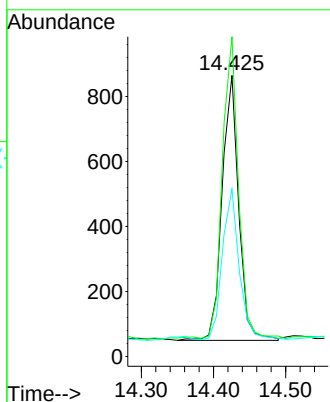
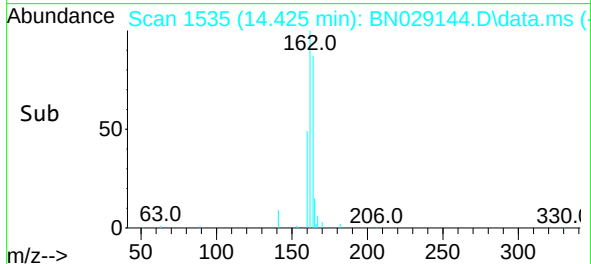
Instrument :
BNA_N
ClientSampleId :
P-14(10-15)RE



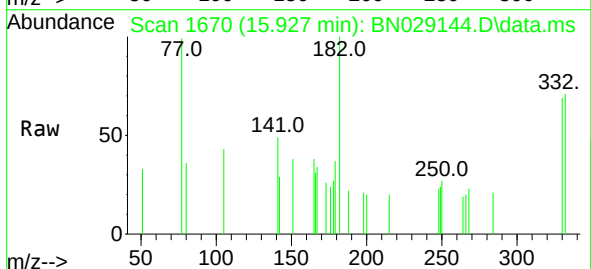
Tgt Ion:164 Resp: 1298
Ion Ratio Lower Upper
164 100
162 113.8 85.0 127.4
160 59.5 45.8 68.8

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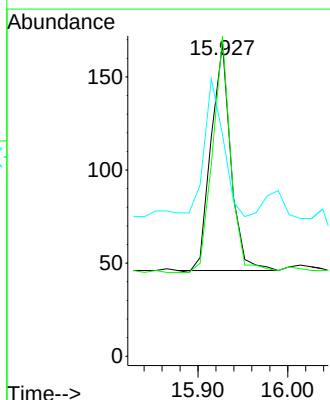
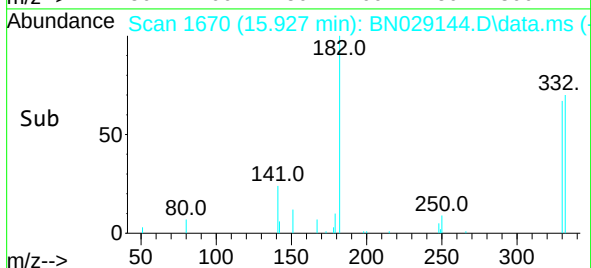
Reviewed By :Yogesh Patel 12/21/2023
Supervised By :mohammad ahmed 12/21/2023

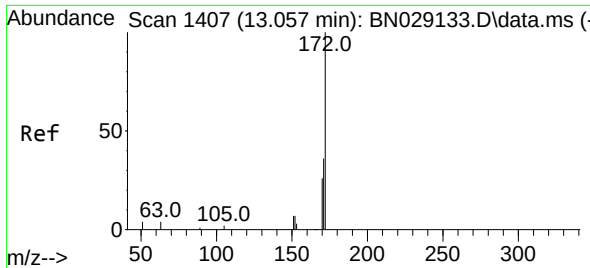


#14
2,4,6-Tribromophenol
Concen: 0.164 ng
RT: 15.927 min Scan# 1670
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49



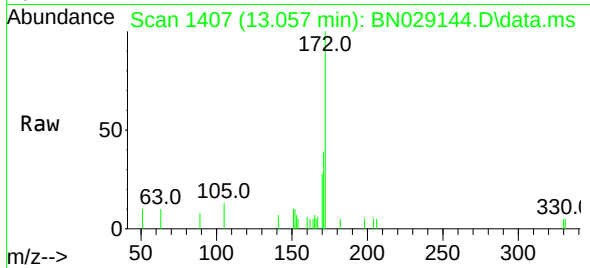
Tgt Ion:330 Resp: 186
Ion Ratio Lower Upper
330 100
332 96.2 83.4 125.0
141 58.1 43.8 65.8





#15
2-Fluorobiphenyl
Concen: 0.215 ng
RT: 13.057 min Scan# 1407
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

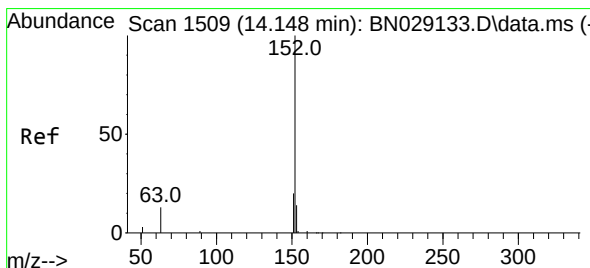
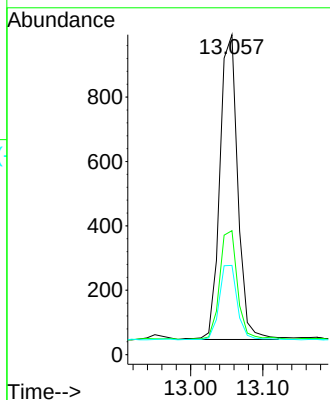
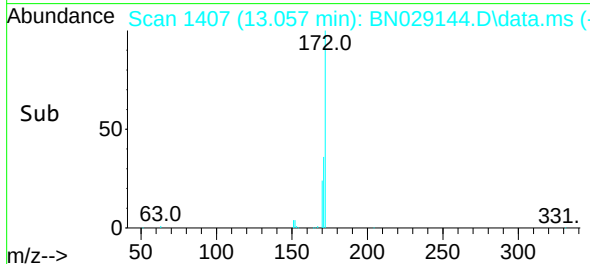
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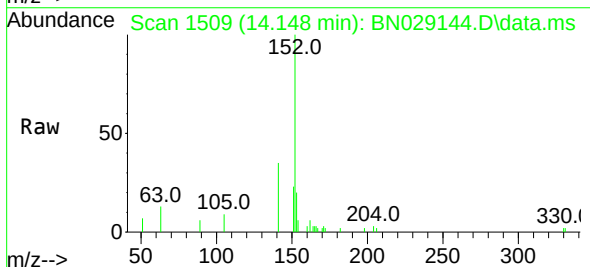
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Ion Ratio Lower Upper
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171 38.7 32.2 48.4
170 27.9 25.0 37.4

Manual Integrations
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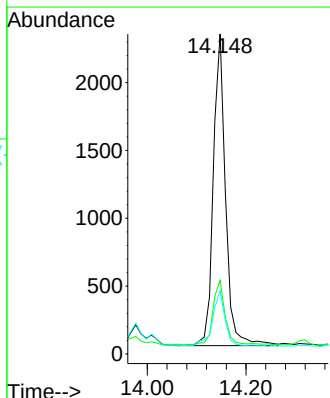
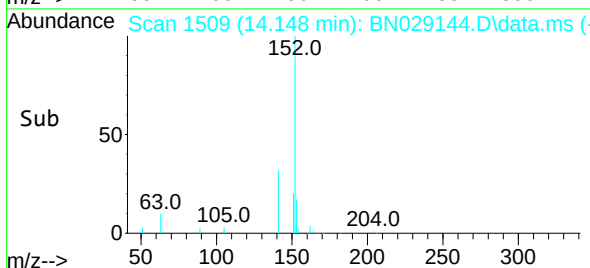
Reviewed By :Yogesh Patel 12/21/2023
Supervised By :mohammad ahmed 12/21/2023

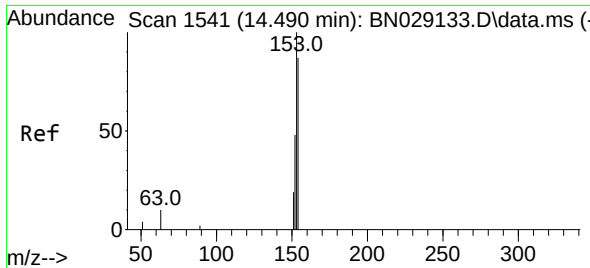


#16
Acenaphthylene
Concen: 0.433 ng
RT: 14.148 min Scan# 1509
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49



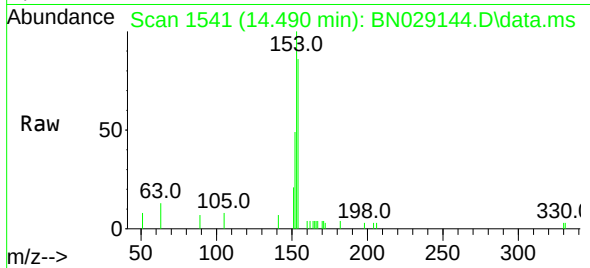
Tgt Ion:152 Resp: 3960
Ion Ratio Lower Upper
152 100
151 20.5 16.3 24.5
153 17.5 10.1 15.1#





#17
Acenaphthene
Concen: 0.358 ng
RT: 14.490 min Scan# 1541
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

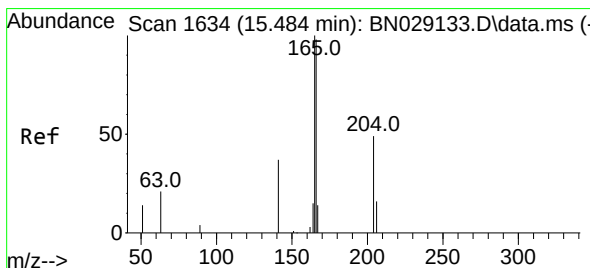
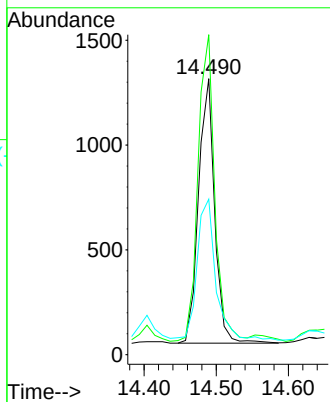
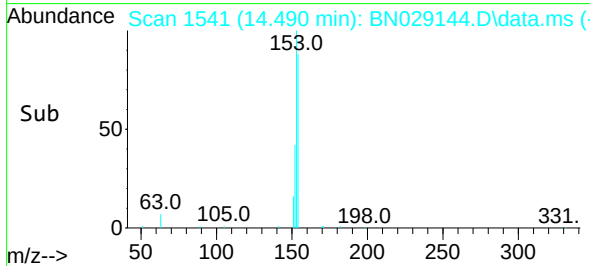
Instrument :
BNA_N
ClientSampleId :
P-14(10-15)RE



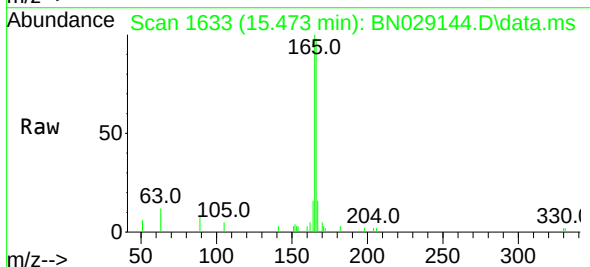
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Ion Ratio Lower Upper
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153 119.6 99.9 149.9
152 61.9 47.4 71.2

Manual Integrations
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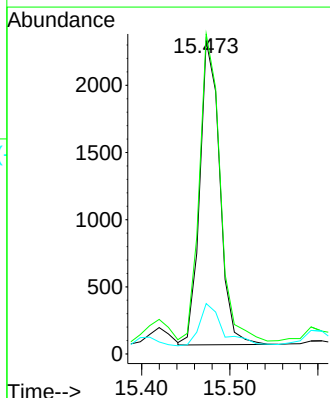
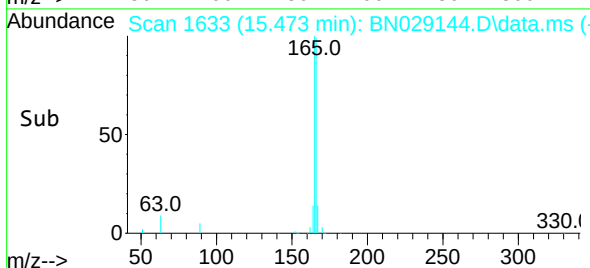
Reviewed By :Yogesh Patel 12/21/2023
Supervised By :mohammad ahmed 12/21/2023

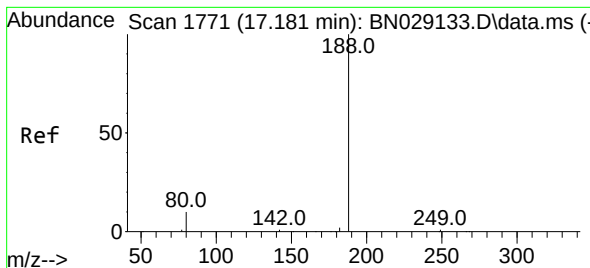


#18
Fluorene
Concen: 0.510 ng
RT: 15.473 min Scan# 1633
Delta R.T. -0.011 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49



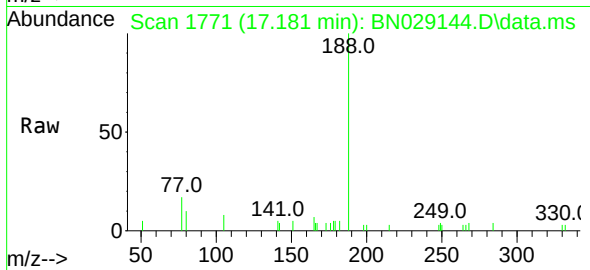
Tgt Ion:166 Resp: 3774
Ion Ratio Lower Upper
166 100
165 104.3 83.4 125.0
167 16.3 11.8 17.8





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.181 min Scan# 1771
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

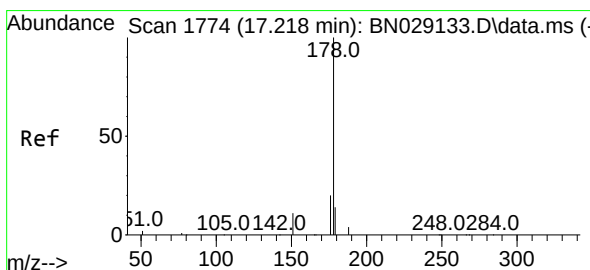
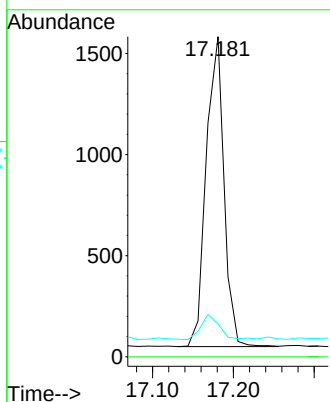
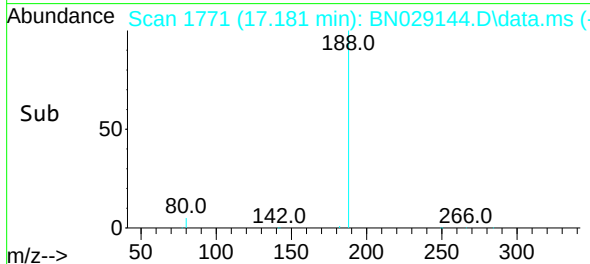
Instrument :
BNA_N
ClientSampleId :
P-14(10-15)RE



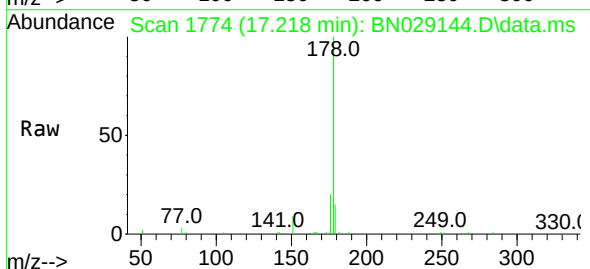
Tgt Ion:188 Resp: 235
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.2 13.7 20.5

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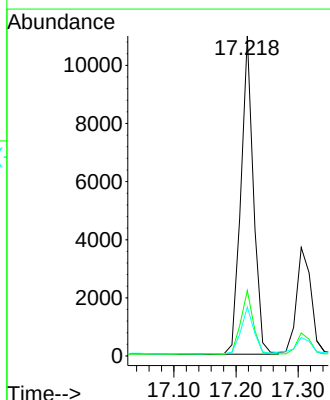
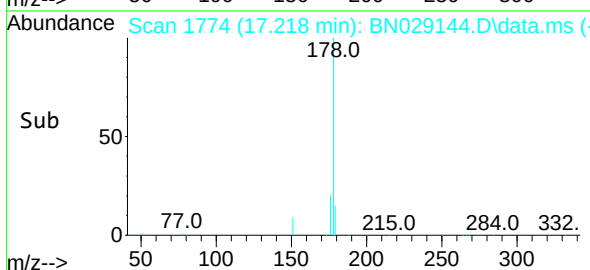
Reviewed By :Yogesh Patel 12/21/2023
Supervised By :mohammad ahmed 12/21/2023

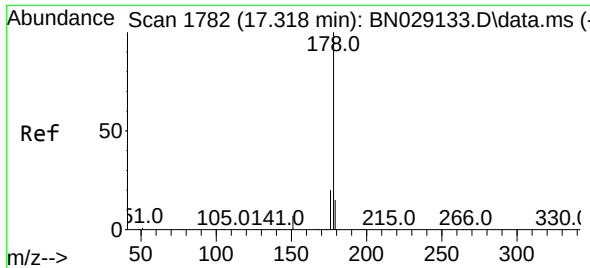


#25
Phenanthrene
Concen: 1.591 ng
RT: 17.218 min Scan# 1774
Delta R.T. -0.000 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49



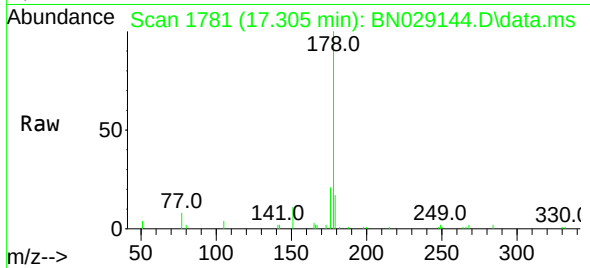
Tgt Ion:178 Resp: 15463
Ion Ratio Lower Upper
178 100
176 20.0 17.4 26.0
179 15.2 13.7 20.5





#26
 Anthracene
 Concen: 0.610 ng
 RT: 17.305 min Scan# 11
 Delta R.T. -0.013 min
 Lab File: BN029144.D
 Acq: 20 Dec 2023 20:49

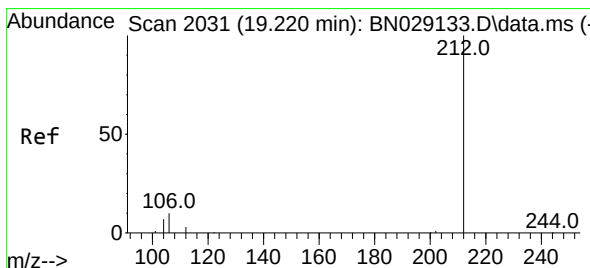
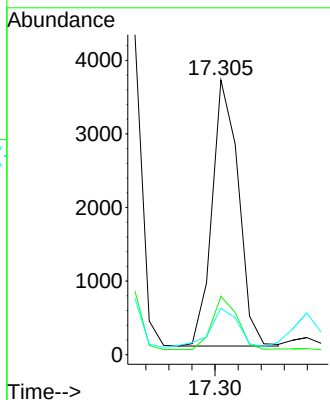
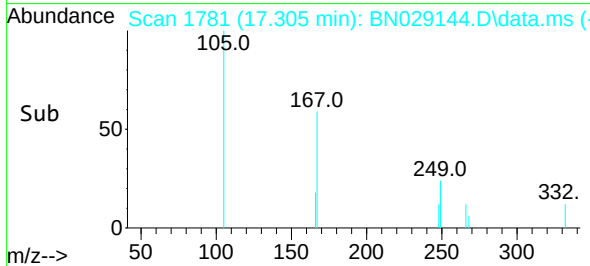
Instrument :
 BNA_N
 ClientSampleId :
 P-14(10-15)RE



Tgt Ion:178 Resp: 573
 Ion Ratio Lower Upper
 178 100
 176 19.2 15.8 23.8
 179 15.9 11.4 17.0

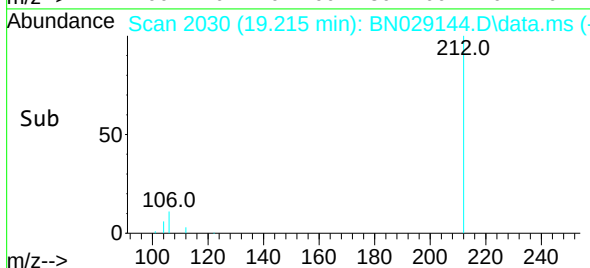
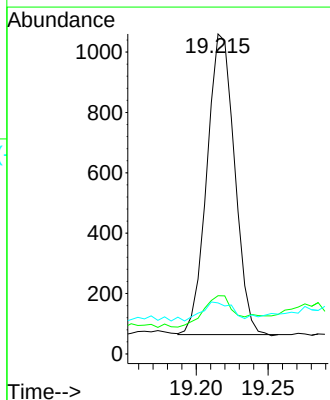
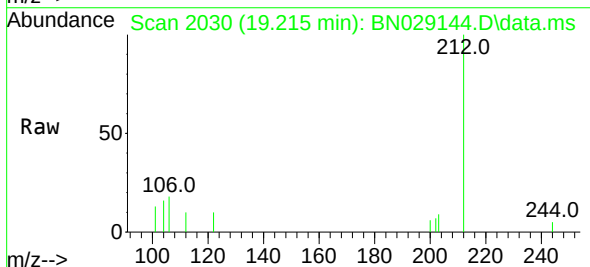
Manual Integrations
 APPROVED

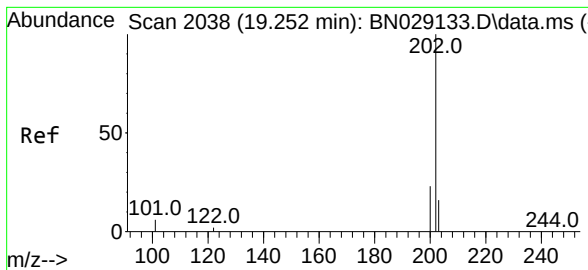
Reviewed By :Yogesh Patel 12/21/2023
 Supervised By :mohammad ahmed 12/21/2023



#27
 Fluoranthene-d10
 Concen: 0.233 ng
 RT: 19.215 min Scan# 2030
 Delta R.T. -0.005 min
 Lab File: BN029144.D
 Acq: 20 Dec 2023 20:49

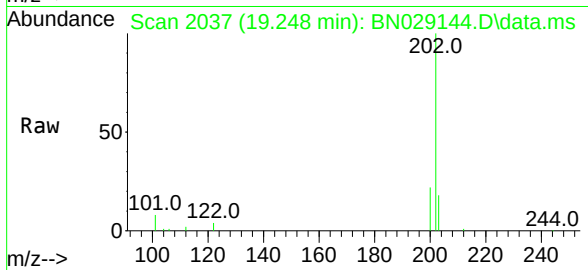
Tgt Ion:212 Resp: 1330
 Ion Ratio Lower Upper
 212 100
 106 11.4 9.6 14.4
 104 6.8 6.5 9.7





#28
Fluoranthene
Concen: 1.281 ng
RT: 19.248 min Scan# 2037
Delta R.T. -0.005 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

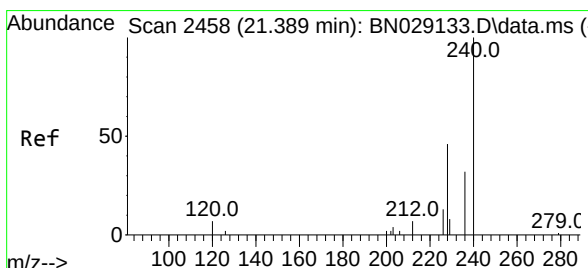
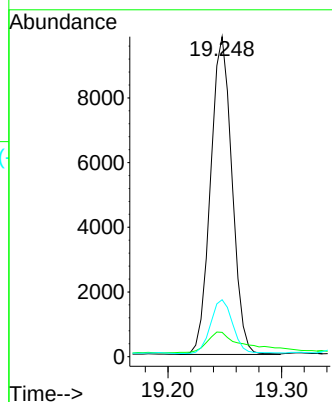
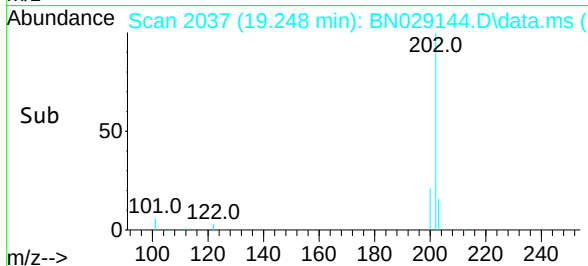
Instrument :
BNA_N
ClientSampleId :
P-14(10-15)RE



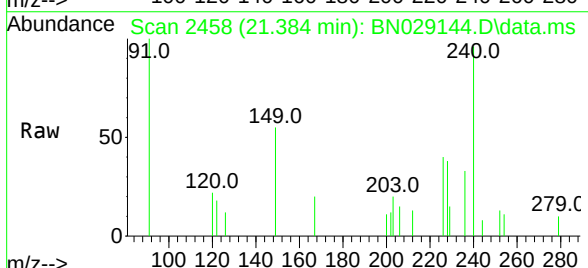
Tgt Ion:202 Resp: 1287
Ion Ratio Lower Upper
202 100
101 12.7 5.3 7.9
203 17.5 13.8 20.6

Manual Integrations
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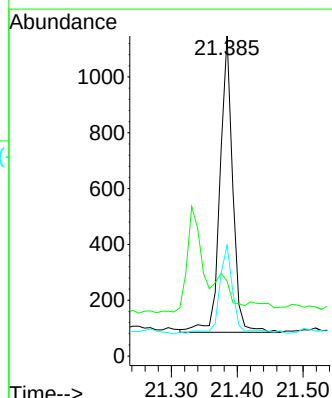
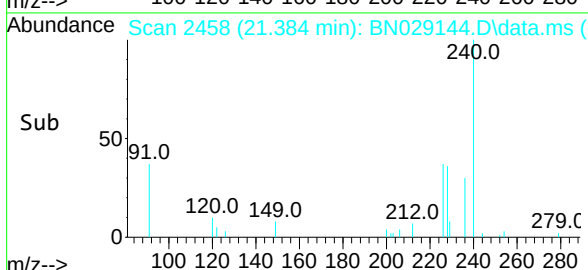
Reviewed By :Yogesh Patel 12/21/2023
Supervised By :mohammad ahmed 12/21/2023

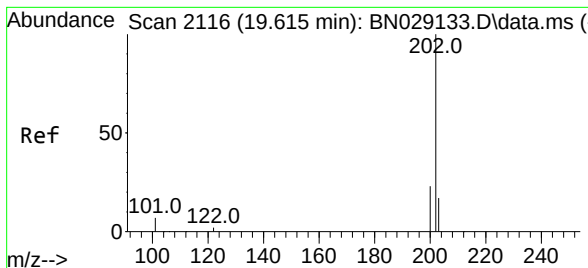


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.384 min Scan# 2458
Delta R.T. -0.004 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49



Tgt Ion:240 Resp: 1421
Ion Ratio Lower Upper
240 100
120 23.5 21.4 32.0
236 34.6 33.5 50.3





#30

Pyrene

Concen: 1.157 ng

RT: 19.610 min Scan# 2115

Delta R.T. -0.005 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

Instrument :

BNA_N

ClientSampleId :

P-14(10-15)RE

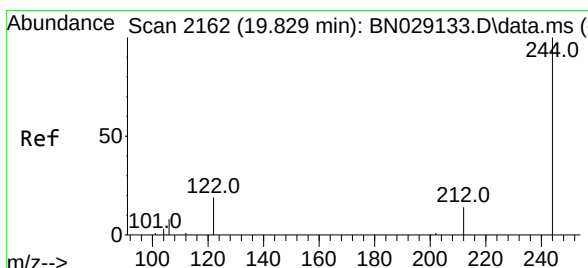
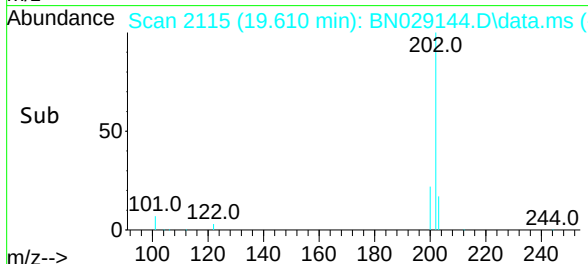
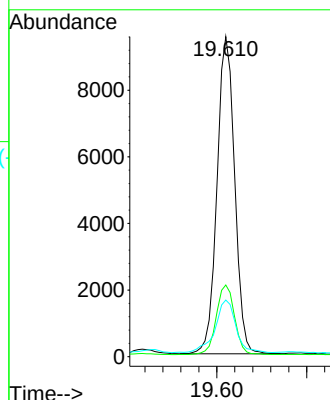
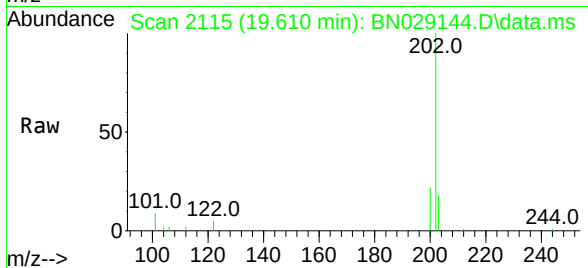
Tgt Ion:	202	Resp:	12954
Ion Ratio	Lower	Upper	
202	100		
200	22.7	18.0	27.0
203	19.7	15.1	22.7

Manual Integrations

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Reviewed By :Yogesh Patel 12/21/2023

Supervised By :mohammad ahmed 12/21/2023



#31

Terphenyl-d14

Concen: 0.181 ng

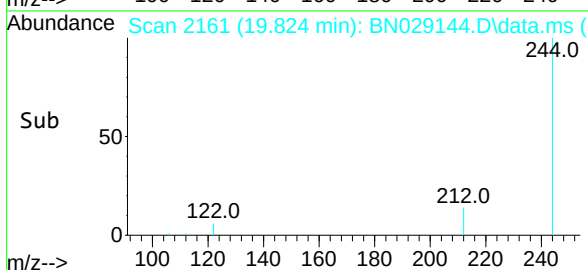
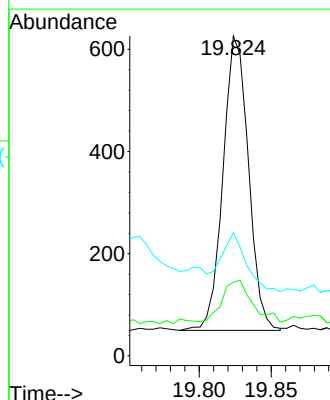
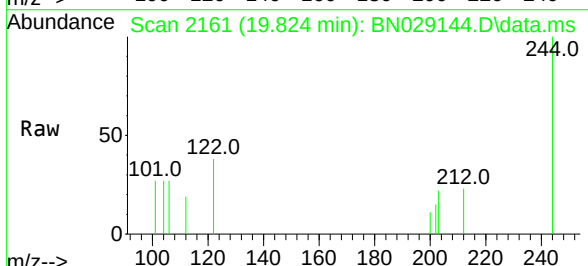
RT: 19.824 min Scan# 2161

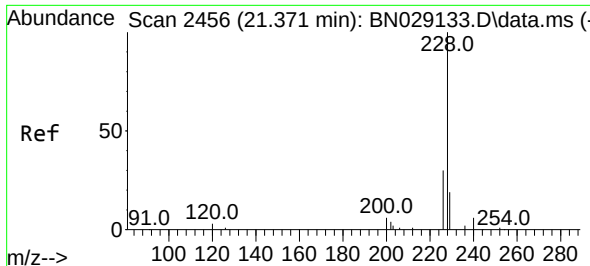
Delta R.T. -0.005 min

Lab File: BN029144.D

Acq: 20 Dec 2023 20:49

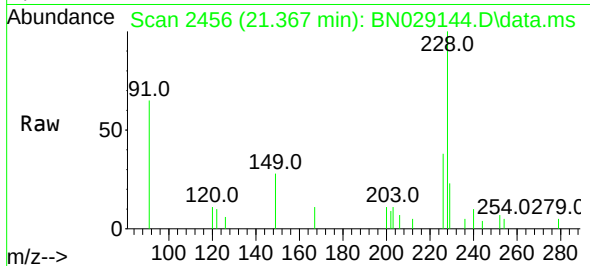
Tgt Ion:	244	Resp:	708
Ion Ratio	Lower	Upper	
244	100		
212	23.0	19.0	28.6
122	38.5	22.5	33.7





#32
Benzo(a)anthracene
Concen: 0.426 ng
RT: 21.367 min Scan# 2456
Delta R.T. -0.004 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

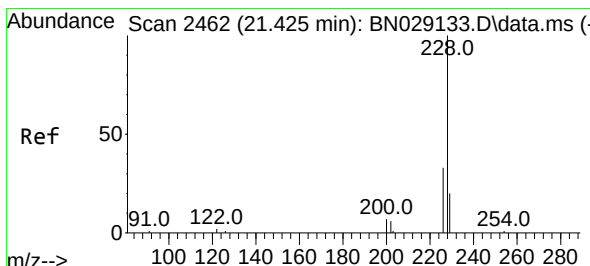
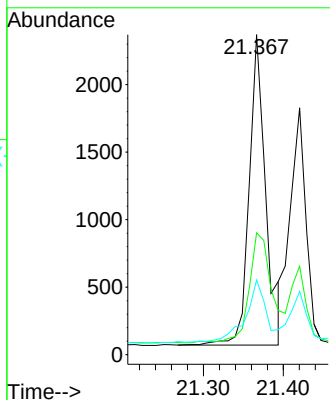
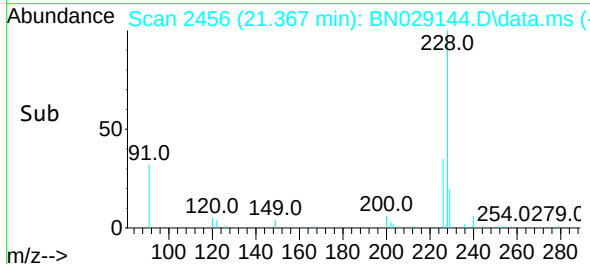
Instrument :
BNA_N
ClientSampleId :
P-14(10-15)RE



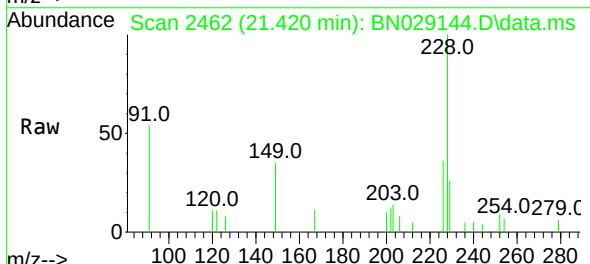
Tgt Ion:228 Resp: 332
Ion Ratio Lower Upper
228 100
226 38.1 27.6 41.4
229 23.3 19.4 29.0

Manual Integrations
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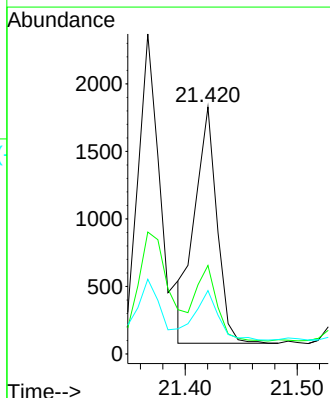
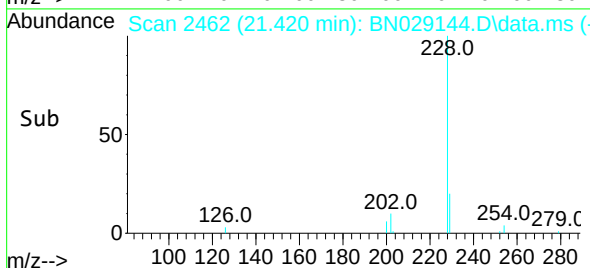
Reviewed By :Yogesh Patel 12/21/2023
Supervised By :mohammad ahmed 12/21/2023

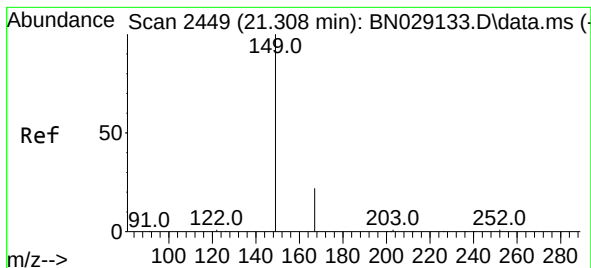


#33
Chrysene
Concen: 0.314 ng
RT: 21.420 min Scan# 2462
Delta R.T. -0.004 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49



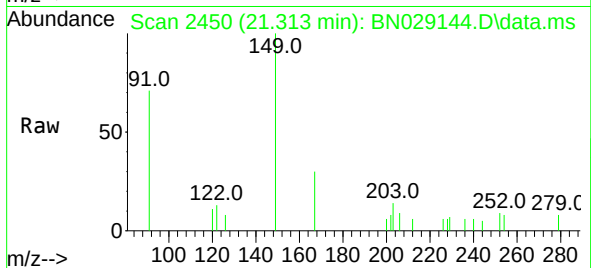
Tgt Ion:228 Resp: 2429
Ion Ratio Lower Upper
228 100
226 35.8 29.2 43.8
229 25.6 19.3 28.9





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.184 ng
RT: 21.313 min Scan# 2449
Delta R.T. 0.005 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

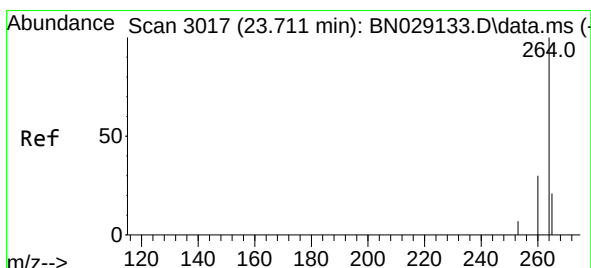
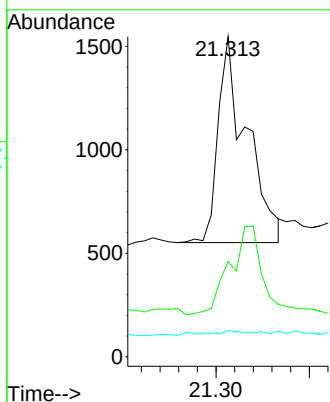
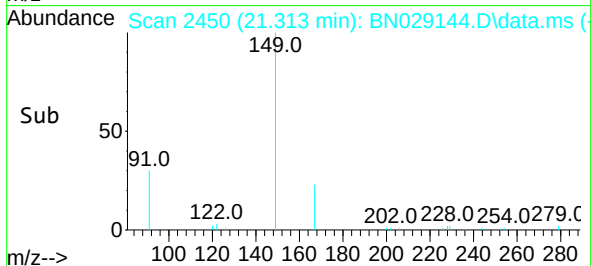
Instrument :
BNA_N
ClientSampleId :
P-14(10-15)RE



Tgt Ion:149 Resp: 2114
Ion Ratio Lower Upper
149 100
167 0.0 20.2 30.2
279 1.1 2.5 3.7

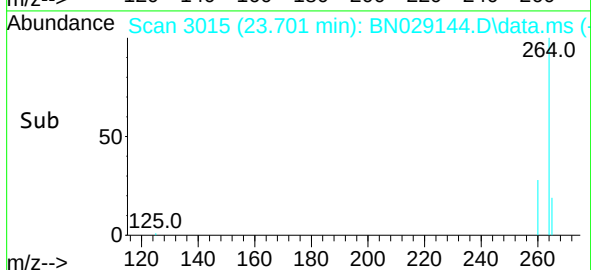
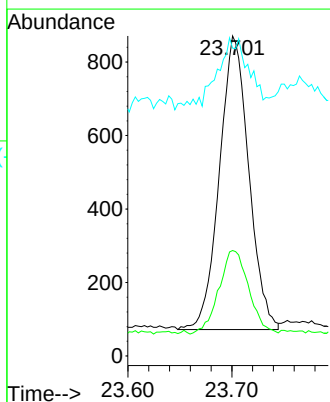
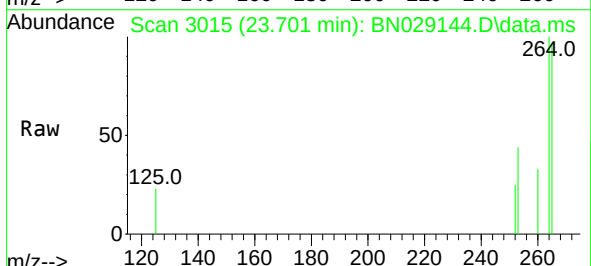
Manual Integrations
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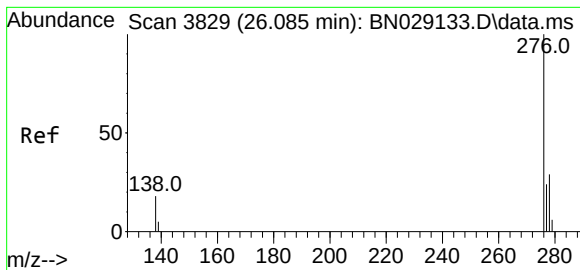
Reviewed By :Yogesh Patel 12/21/2023
Supervised By :mohammad ahmed 12/21/2023



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.701 min Scan# 3015
Delta R.T. -0.010 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

Tgt Ion:264 Resp: 1571
Ion Ratio Lower Upper
264 100
260 33.0 31.0 46.6
265 96.2 105.3 157.9





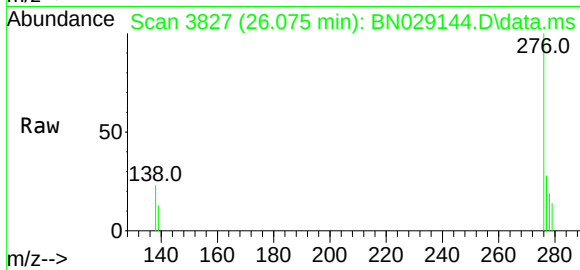
#36
Indeno(1,2,3-cd)pyrene
Concen: 0.352 ng
RT: 26.075 min Scan# 3829
Delta R.T. -0.010 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

Instrument :

BNA_N

ClientSampleId :

P-14(10-15)RE



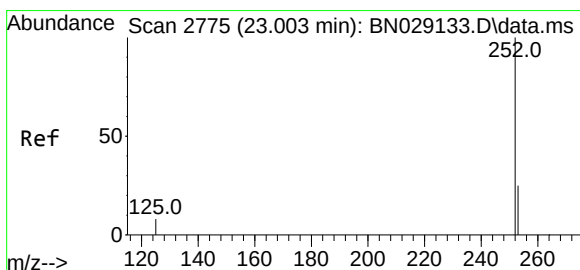
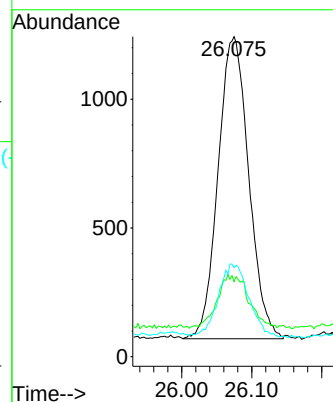
Tgt Ion:276 Resp: 3560
Ion Ratio Lower Upper
276 100
138 18.0 7.8 11.6
277 24.1 9.2 13.8

Manual Integrations

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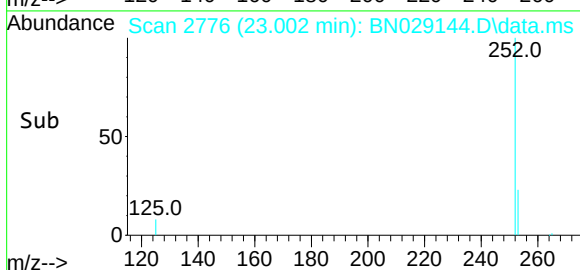
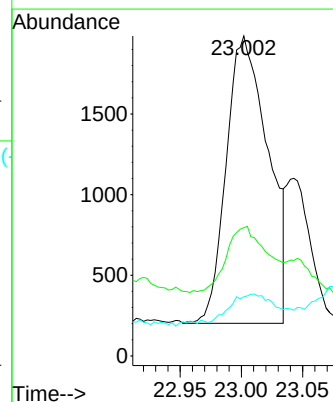
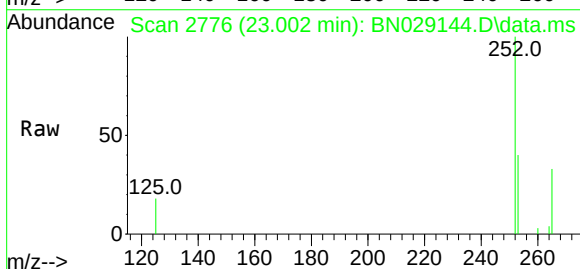
Reviewed By :Yogesh Patel 12/21/2023

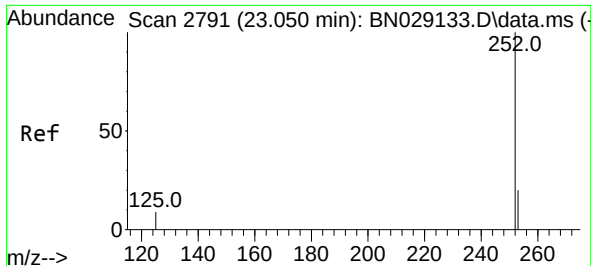
Supervised By :mohammad ahmed 12/21/2023



#37
Benzo(b)fluoranthene
Concen: 0.530 ng
RT: 23.002 min Scan# 2776
Delta R.T. -0.002 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

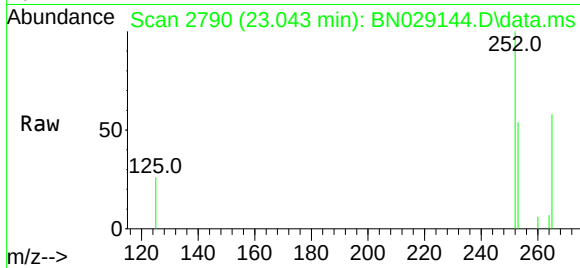
Tgt Ion:252 Resp: 4236
Ion Ratio Lower Upper
252 100
253 40.1 36.0 54.0
125 18.5 14.6 21.8





#38
Benzo(k)fluoranthene
Concen: 0.170 ng m
RT: 23.043 min Scan# 21
Delta R.T. -0.007 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

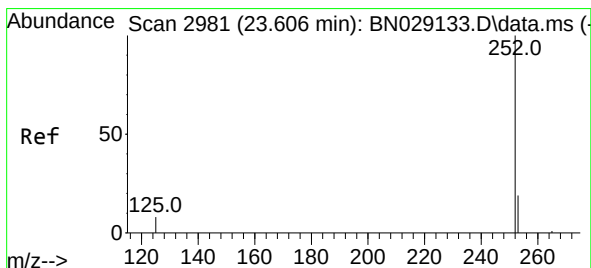
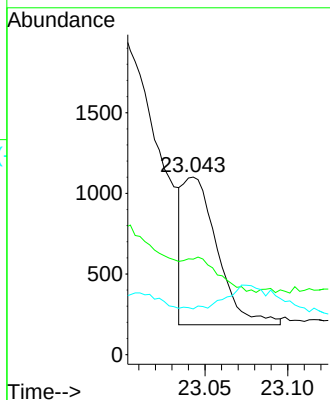
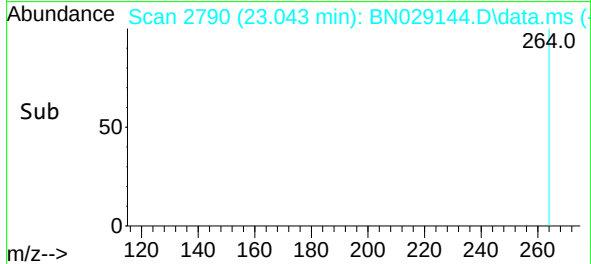
Instrument :
BNA_N
ClientSampleId :
P-14(10-15)RE



Tgt Ion:252 Resp: 133
Ion Ratio Lower Upper
252 100
253 53.8 35.0 52.6
125 25.7 14.6 21.8

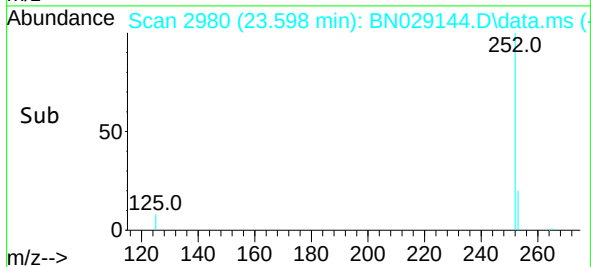
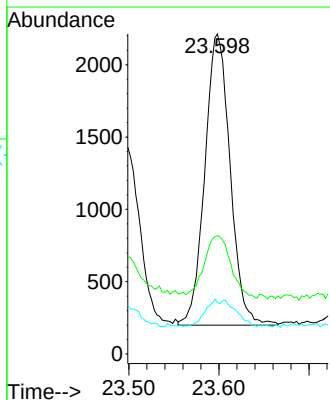
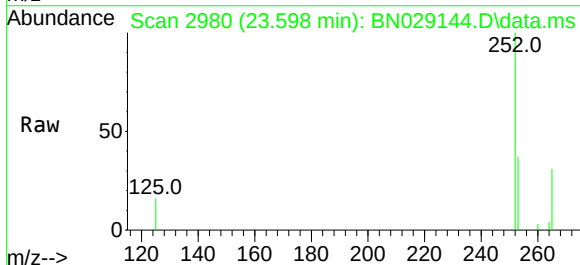
Manual Integrations
APPROVED

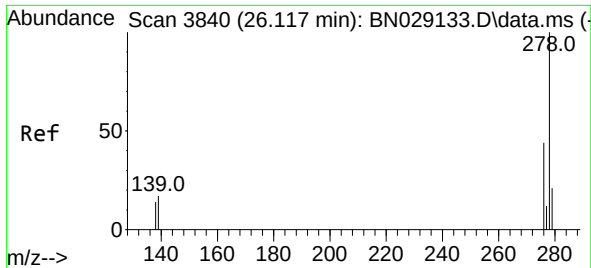
Reviewed By :Yogesh Patel 12/21/2023
Supervised By :mohammad ahmed 12/21/2023



#39
Benzo(a)pyrene
Concen: 0.553 ng m
RT: 23.598 min Scan# 2980
Delta R.T. -0.007 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

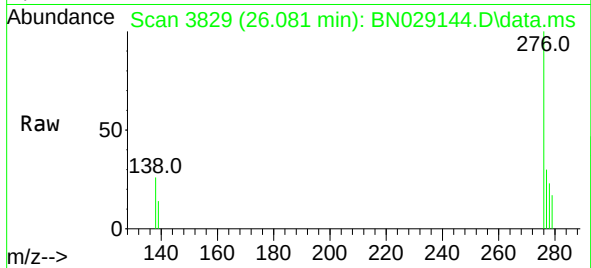
Tgt Ion:252 Resp: 3940
Ion Ratio Lower Upper
252 100
253 37.0 40.3 60.5#
125 16.1 16.7 25.1#





#40
Dibenzo(a,h)anthracene
Concen: 0.100 ng m
RT: 26.081 min Scan# 3829
Delta R.T. -0.037 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49

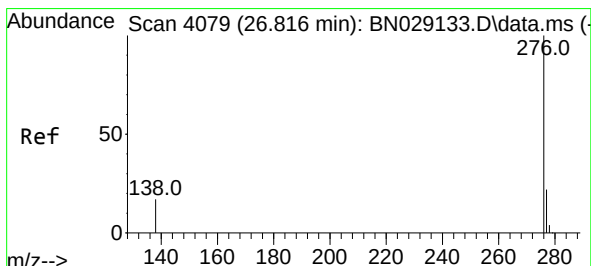
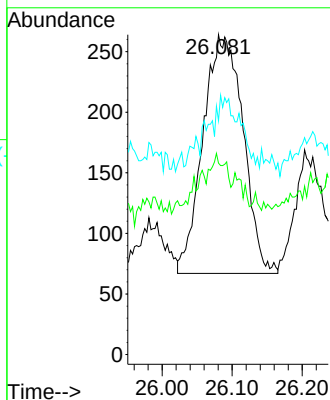
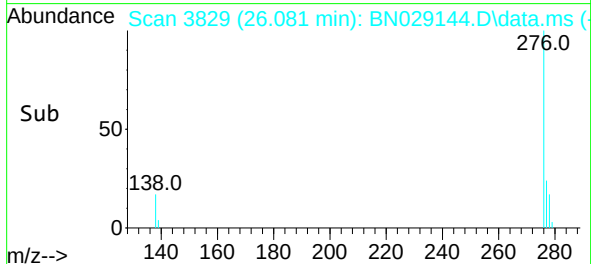
Instrument :
BNA_N
ClientSampleId :
P-14(10-15)RE



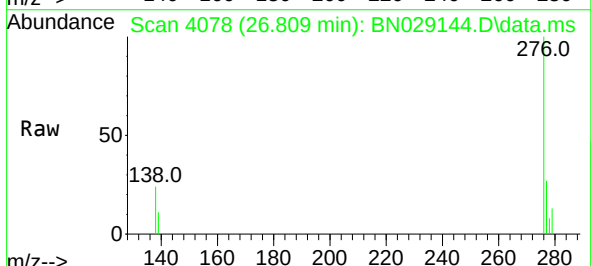
Tgt Ion:278 Resp: 782
Ion Ratio Lower Upper
278 100
139 59.8 24.2 36.2
279 73.1 34.9 52.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 12/21/2023
Supervised By :mohammad ahmed 12/21/2023



#41
Benzo(g,h,i)perylene
Concen: 0.414 ng
RT: 26.809 min Scan# 4078
Delta R.T. -0.007 min
Lab File: BN029144.D
Acq: 20 Dec 2023 20:49



Tgt Ion:276 Resp: 3547
Ion Ratio Lower Upper
276 100
277 27.4 25.5 38.3
138 24.4 22.9 34.3

