**3GPP TSG-RAN WG4 Meeting #107 draft R4-2310408**

**Incheon, Republic of Korea, May 22-26, 2023**

**Title:** WF on system parameters for less than 5MHz channel bandwidth

**Agenda Item:** 8.15.6

**Source: Nokia**

**Document for:** Approval

**Issue 1-1: The value of A in N \* 600kHz + M \* 50 kHz + A kHz, N ϵ {1:2499}, M ϵ {1,3,5}**

* Proposals
  + Option 1: 300
  + Option 2: 345
* Agreement
  + Agree on 300.

**Issue 1-2: The value of B in N \* 100 kHz + B kHz, N ϵ {9206:1:9232}**

* Proposals
  + Option 1: 30
  + Option 2: 70
* Agreement
  + Do not consider 100kHz if RAN1 concludes 12PRB for SSB.

**Issue 1-3: Finer synchronization raster design for 3 MHz channel bandwidth**

* Proposals
  + Option 1: Use N \* 600 kHz + M \* 50 kHz + A kHz, N ϵ {1:4998}, M ϵ {1,3,5} for 12 PRBs PBCH transmission bandwidth, use N \* 100 kHz + B kHz, N ϵ {9206:1:9232} for 15 PRBs PBCH transmission bandwidth
  + Option 2: Use N \* 600 kHz + M \* 50 kHz + A kHz
* Agreement
  + Do not consider Option 1 if RAN1 concludes 12PRB for SSB.

**Issue 1-4: Additional synchronization raster for 12 PRBs PBCH transmission bandwidth in band n100**

* Proposals
  + Option 1: 920.6225 MHz
  + Option 2: 920.73 MHz
* Agreement
  + Agree on Option 2.

**Issue 1-5: Additional synchronization raster for 20 PRBs PBCH transmission bandwidth in band n100**

* Proposals
  + Option 1: 921.45 MHz
* Agreement
  + Additional synchronization raster of 921.45 MHz for 20 PRBs PBCH transmission bandwidth in band n100.
  + The additional sync raster is applicable for 20 PRBs PBCH and not applicable for PBCH with 12 or 15 PRBs in band n100.

**Issue 1-6: Finer synchronization raster index for 3 MHz channel bandwidth**

* Proposals
  + Option 1: GSCN = 22255 + 3\*N + (M-1)/2, N=1:2499, M = {1,3,5}
  + Option 2: NREF = (N \* 600 + M \* 50 + 345)/5, N=1534:1538, M ϵ {1,3,5}
* Agreement
  + TBD based on finer synchronization raster design.