**3GPP TSG-RAN WG4 Meeting # 112bis R4-2417080**

Hefei, China, 14-18 October, 2024

Title: WF on A-MPR for NR band n68

Agenda item: 5.16.1

Source: Ericsson

Document for: Approval

# 1 Background

This contribution is a WF on the A-MPR needed for band n68.

# 2 Discussion

## 2.1 Background

One contribution ([3]) shared A-MPR simulation results for NS\_26 and NS\_36 based on the agreed assumptions captured in [2]. No duplex filter was considered.

## 2.2 Agreement

Re-do A-MPR simulations considering the following duplex filter characteristics (extreme condition), see below.

Note: Results could be compared with LTE A-MPR values.

|  |  |
| --- | --- |
|  | Vendor B SAW15MHz passband |
| MHz | Extreme | Normal |
| 693.5 | 0.0 | 10.0 |
| 692.5 | 4.0 | 16.0 |
| 691.5 | 10.0 | 20.0 |
| 690.5 | 16.0 | 26.0 |
| 689.5 | 20.0 | 30.0 |
| 688.5 | 26.0 | 30.0 |
| 687.5 | 30.0 | 30.0 |
| 686.5 | 30.0 | 30.0 |

For NS\_26, consider the additional spurious limit:

|  |  |  |
| --- | --- | --- |
| Frequency band(MHz) | Channel bandwidth /Spectrum emission limit(dBm) | Measurement bandwidth |
| 5 MHz, 10 MHz, 15 MHz |
| 686 ≤ f ≤ 694 | -25 | 8MHz |

For NS\_36, consider the normal condition additional spurious limit:

|  |  |  |
| --- | --- | --- |
| Frequency band(MHz) | Channel bandwidth /Spectrum emission limit(dBm) | Measurement bandwidth |
| 5 MHz, 10 MHz and 15 MHz |
| 470 ≤ f ≤ 694 | -42 | 8MHz |

# 3 Conclusion

This contribution captures the A-MPR agreements for the introduction of band n68 made in RAN4#112bis.

# 4 References

[1] RP-241664,New WID on introduction of NR band n68, Ericsson

[2] R4-2414273, WF on introduction of NR band n68, Ericsson

[3] R4-2415569, n68 NS\_26 and NS\_36 A-MPR simulations, Nokia