**3GPP TSG-RAN WG4 Meeting # 97e DRAFT R4-2016926**

**Electronic Meeting, 2 – 13 Nov., 2020**

**Agenda item:** 13.2.1

**Source:** Qualcomm Incorporated

**Title:** WF on Phase noise mask and PTRS

**Document for:** Approval

# Topic #2: PN Models for use in RAN4

*Discussion of which PN models are appropriate for use in RAN4. Interested delegates please comment on which of the PN models are appropriate for use in RAN4.*

## UE Phase Noise Models for use in RAN4

|  |  |  |  |
| --- | --- | --- | --- |
| Company | TR 38.803 ex 2  3GPP | 6533  Huawei | 4976  Ericsson |
| Company A | Position on use in RAN4 | Position on use in RAN4 | Position on use in RAN4 |
| Company B | Position on use in RAN4 | Position on use in RAN4 | Position on use in RAN4 |
|  |  |  |  |

## BS Phase Noise Models for use in RAN4

|  |  |  |  |
| --- | --- | --- | --- |
| Company | TR 38.803 ex 2  3GPP | 6533  Huawei | 4976  Ericsson |
| Company A | Position on use in RAN4 | Position on use in RAN4 | Position on use in RAN4 |
| Company B | Position on use in RAN4 | Position on use in RAN4 | Position on use in RAN4 |
|  |  |  |  |

WF on PN models for use in RAN4: TBD

# Topic #2: Phase tracking reference signal information in LSout

*Company views on what PTRS content should be in a potential LSout to RAN1.*

## PTRS content

|  |  |
| --- | --- |
| Company | PTRS content for potential LSout |
| Qualcomm | As PTRS enhancement for assisting ICI compensation, increasing the frequency domain PTRS density for small RB allocation can be considered. New PTRS patterns other than the Rel-15 design, such as the block PTRS pattern is not necessary. Further it is up to RAN1 and not RAN4 to decide on the PTRS design. |
| Company B | Position on use in RAN4 and in LSout |
|  |  |

WF on PTRS: TBD