**3GPP TSG RAN WG1 #105-e R1-210xxxx**

**e-Meeting, May 10th – 27th, 2021**

**Source: Moderator (ZTE)**

**Title: Summary of Email Discussion [105-e-LTE-6.1CRs-01]**

**Agenda item: 6.1**

**Document for:** **Discussion/Decision**

# Introduction

Per Chairman’s guidance, the following email discussion is allocated to discuss LTE Rel-14 CR R1-2104575. This summary is generated to collect companies’ views.

 [105-e-LTE-6.1CRs-01] Email discussion/approval on R1-2104575 by May 24 - Xingguang (ZTE)

# Discussion

**SCS = 15 KHz**

In LTE spec, for the SCS=15 KHz, the following equations are applied.

|  |
| --- |
| where |

The $m^{'}$can be derived by



, where $N\_{SC}^{RB}=12$ represents the number of sub-carriers per RB for SCS=15 KHz. The “2” in $\frac{N\_{SC}^{RB}}{2}$ is derived by k=2m or k=2m+1 as shown above.

**SCS = 1.25 KHz**

The **existing** spec is as below.

|  |
| --- |
| where  |

While for the SCS = 1.25 KHz case, the $m^{'}$can be derived by



, where  represents the number of sub-carriers per RB for SCS=1.25 KHz. The “6” in $\frac{N\_{SC}^{RB}}{6}$ is derived by k=6m or k=6m+3 as shown above.

**Thus, our CR tries to correct the equation for** $m^{'}$ **for SCS= 1.25 KHz case. In summary we change  to  for SCS=1.25 KHz case.**

The **updated** spec in R1-2104575 is as below.

|  |
| --- |
| 6.10.2.2.2 Mapping to resource elements for 1.25 kHzThe reference-signal sequence  in OFDM symbol  shall be mapped to complex-valued modulation symbols  with  according to where  |

## Question#1

Question#1: Do you think the CR in R1-2104575 is needed or not? Any views on how to correct the equation for $m^{'}$ for SCS = 1.25 KHz case?

|  |  |
| --- | --- |
| **Company** | **View** |
|  |  |
|  |  |
|  |  |

# Conclusion

# Reference

1. R1-2104575, Correction for MBSFN reference signal mapping to resource elements for 1.25 kHz, ZTE, RAN1#105-e meeting.