3GPP TSG-RAN WG4 Meeting #100-e R4-21xxxxx

E-meeting, 16th – 27th August, 2021

**Agenda item:** **2**

**Source: RAN4 Vice Chair (Samsung)**

**Title: RAN4#100-e BSRF\_Test\_Demod Session Chair notes**

**Document for:** **Approval**

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## 5 Rel-15 and previous release maintenance

### 5.1 Rel-15 New radio access technology

#### 5.1.3 UE EMC requirements maintenance

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**Email discussion for [100-e][303] NR\_EMC, AI 5.1.3,5.1.6,6.1.2.5,9.5.4– Wubin Zhou**

**R4-2115594 Email discussion summary for [100-e][303] NR\_EMC**

*Type: other For: Information  
 Source: Moderator (ZTE)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**Sub-topic 1-1: On LS from CCSA**

**R4-2112609 on LS from CCSA on UE EMC**

*Type: discussion For: (not specified)  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**Sub-topic 1-2: MU value for the effective radiated RF power measurements**

**R4-2114395 Discussion on the MU value for the effective radiated RF power measurements between 12.75GHz and 26 GHz**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

Discussion on the maximum MU value selection for the measurements of the effective radiated RF power in frequency range 12.75 – 26 GHz.

**Decision:** The document was **not treated**.

**R4-2114396 Draft CR to TS38.124: MU value for the effective radiated RF power between 12.75GHz and 26 GHz, Rel-15**

*Type: draftCR For: Endorsement  
 38.124 v15.6.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei*

**Abstract:**

Removal of the TBD for the maximum measurement uncertainty value for measurements of the effective radiated RF power in 12.75 – 26 GHz frequency range.

**Decision:** The document was **not treated**.

**R4-2114397 Draft CR to TS38.124: MU value for the effective radiated RF power between 12.75GHz and 26 GHz, Rel-16**

*Type: draftCR For: Endorsement  
 38.124 v16.3.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei*

**Abstract:**

Removal of the TBD for the maximum measurement uncertainty value for measurements of the effective radiated RF power in 12.75 – 26 GHz frequency range.

**Decision:** The document was **not treated**.

#### 5.1.4 BS RF requirements maintenance

##### 5.1.4.1 General

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**Email discussion for [100-e][301] BSRF\_Maintenance, AI 5.1.4, 6.1.9.1 (except 2114399), 6.1.10.1,5.2.2.1 – Johan Sköld**

**R4-2115592 Email discussion summary for [100-e][301] BSRF\_Maintenance**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

**Array antenna model extension**

**R4-2113314 CR to TR 38.921: Addition of array antenna model extension in subclause 8.1**

*Type: CR For: Agreement  
 38.921 v17.0.0 CR-0001 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

At last RAN4 meeting an extension of the antenna array model originally defined in TR 37.842 to support sub-arrays was agreed. The extension of the model and corresponding relevant model parameters was communicated to ITU-R WP 5D and CEPT in an LS (R4-210

**Decision:** The document was **not treated**.

**R4-2113315 CR to TR 38.820: Addition of array antenna model extension in subclause 7.2**

*Type: CR For: Agreement  
 38.820 v16.1.0 CR-0003 rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

At last RAN4 meeting an extension of the antenna array model originally defined in TR 37.842 to support sub-arrays was agreed. The extension of the model and corresponding relevant model parameters was communicated to ITU-R WP 5D and CEPT in an LS (R4-210

**Decision:** The document was **not treated**.

##### 5.1.4.2 TX/RX requirements maintenance (38.104)

**OTA transmitter intermodulation**

**R4-2113077 OTA transmitter intermodulation 38.104 R15**

*Type: draftCR For: Endorsement  
 38.104 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113078 OTA transmitter intermodulation 38.104 R16**

*Type: draftCR For: Endorsement  
 38.104 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113079 OTA transmitter intermodulation 38.104 R17**

*Type: draftCR For: Endorsement  
 38.104 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 5.1.4.3 MSR specifications maintenance\

**Test configuration for NC operation**

**R4-2113068 Correction on the test configuration for NC operation 37.141 R15**

*Type: draftCR For: Endorsement  
 37.141 v15.15.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113069 Correction on the test configuration for NC operation 37.141 R16**

*Type: draftCR For: Endorsement  
 37.141 v16.10.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113070 Correction on the test configuration for NC operation 37.141 R17**

*Type: draftCR For: Endorsement  
 37.141 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**OTA transmitter intermodulation for MSR**

**R4-2113083 OTA transmitter intermodulation 37.105 R15**

*Type: draftCR For: Endorsement  
 37.105 v15.13.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113084 OTA transmitter intermodulation 37.105 R16**

*Type: draftCR For: Endorsement  
 37.105 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113085 OTA transmitter intermodulation 37.105 R17**

*Type: draftCR For: Endorsement  
 37.105 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**Missing note in applicability table for BC2 WA BS OBUE**

**R4-2114400 Draft CR to TS 37.104: addition of the missing note in applicability table for BC2 WA BS OBUE, Rel-16**

*Type: draftCR For: Endorsement  
 37.104 v16.10.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei*

**Abstract:**

Missing note 2 is added to the Table 6.6.2.2-0 (Applicability of operating band unwanted emission requirements for BC2 Wide Area BS).

**Decision:** The document was **not treated**.

**R4-2114401 Draft CR to TS 37.104: addition of the missing note in applicability table for BC2 WA BS OBUE, Rel-17**

*Type: draftCR For: Endorsement  
 37.104 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei*

**Abstract:**

Missing note 2 is added to the Table 6.6.2.2-0 (Applicability of operating band unwanted emission requirements for BC2 Wide Area BS).

**Decision:** The document was **not treated**.

#### 5.1.5 BS conformance testing Maintenance

##### 5.1.5.1 General

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**Email discussion for [100-e][302] NR\_Conformance\_Maintenance, AI 5.1.5 – Liehai Liu**

**R4-2115593 Email discussion summary for [100-e][302]NR\_Conformance\_Maintenance**

*Type: other For: Information  
 Source: Moderator (Huawei)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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##### 5.1.5.2 Conducted conformance testing (38.141-1)

**Topic #6: NRTC4 test configuration correction**

**R4-2113496 Draft CR to TS 38.141-1 NRTC4 test configuration correction**

*Type: draftCR For: Endorsement  
 38.141-1 v15.9.0 CR- rev Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shaghai Bell*

**Abstract:**

This is draft CR to TS 38.141-1 with proposal to correct test configuration NRTC4 description.

**Decision:** The document was **not treated**.

**R4-2113497 Draft CR to TS 38.141-1 NRTC4 test configuration correction**

*Type: draftCR For: Endorsement  
 38.141-1 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shaghai Bell*

**Abstract:**

This is draft CR to TS 38.141-1 with proposal to correct test configuration NRTC4 description.

**Decision:** The document was **not treated**.

**R4-2113498 Draft CR to TS 38.141-1 NRTC4 test configuration correction**

*Type: draftCR For: Endorsement  
 38.141-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shaghai Bell*

**Abstract:**

This is draft CR to TS 38.141-1 with proposal to correct test configuration NRTC4 description.

**Decision:** The document was **not treated**.

##### 5.1.5.3 Radiated conformance testing (38.141-2)

**Topic #2: FR2 OBUE Cat B requirement table note clarification**

**R4-2112773 Draft CR to 38.141-2: BS FR2 OBUE Cat B requirement table note clarification (6.7.4.5.2)**

*Type: draftCR For: Endorsement  
 38.141-2 v15.10.0 CR- rev Cat: F (Rel-15)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **not treated**.

**R4-2112774 Draft CR to 38.141-2: BS FR2 OBUE Cat B requirement table note clarification (6.7.4.5.2)**

*Type: draftCR For: Endorsement  
 38.141-2 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **not treated**.

**R4-2112775 Draft CR to 38.141-2: BS FR2 OBUE Cat B requirement table note clarification (6.7.4.5.2)**

*Type: draftCR For: Endorsement  
 38.141-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **not treated**.

**Topic #4: OTA transmitter intermodulation**

**R4-2113080 OTA transmitter intermodulation 38.141 R15**

*Type: draftCR For: Endorsement  
 38.141-2 v15.10.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113081 OTA transmitter intermodulation 38.141 R16**

*Type: draftCR For: Endorsement  
 38.141-2 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113082 OTA transmitter intermodulation 38.141 R17**

*Type: draftCR For: Endorsement  
 38.141-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113086 OTA transmitter intermodulation 37.145-2 R15**

*Type: draftCR For: Endorsement  
 37.145-2 v15.11.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113087 OTA transmitter intermodulation 37.145-2 R16**

*Type: draftCR For: Endorsement  
 37.145-2 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113088 OTA transmitter intermodulation 37.145-2 R17**

*Type: draftCR For: Endorsement  
 37.145-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**Topic #1: OTA measurement system set-up**

**R4-2113111 draftCR to 38.141-2: Addition of Plane Wave Synthesizer in OTA measurement system set-up**

*Type: draftCR For: Endorsement  
 38.141-2 v15.10.0 CR- rev Cat: (Rel-15)  
  
 Source: CAICT, Rohde & Schwarz*

**Abstract:**

Abbreviation on Plane Wave Synthesizer added, and PWS chamber added to the corresponding annex E clauses on any suitable OTA chamber. (Rel-15)

**Decision:** The document was **not treated**.

**R4-2113185 draftCR to 38.141-2: Addition of Plane Wave Synthesizer in OTA measurement system set-up**

*Type: draftCR For: Endorsement  
 38.141-2 v16.8.0 CR- rev Cat: (Rel-16)  
  
 Source: CAICT, Rohde & Schwarz*

**Abstract:**

Abbreviation on Plane Wave Synthesizer added, and PWS chamber added to the corresponding annex E clauses on any suitable OTA chamber. (Rel-16)

**Decision:** The document was **not treated**.

**R4-2113186 draftCR to 38.141-2: Addition of Plane Wave Synthesizer in OTA measurement system set-up**

*Type: draftCR For: Endorsement  
 38.141-2 v17.2.0 CR- rev Cat: (Rel-17)  
  
 Source: CAICT, Rohde & Schwarz*

**Abstract:**

Abbreviation on Plane Wave Synthesizer added, and PWS chamber added to the corresponding annex E clauses on any suitable OTA chamber. (Rel-17)

**Decision:** The document was **not treated**.

**Topic #7: TS 38.141-2 test configuration corrections**

**R4-2113499 Draft CR to TS 38.141-2 test configuration corrections**

*Type: draftCR For: Endorsement  
 38.141-2 v15.10.0 CR- rev Cat: F (Rel-15)  
  
 Source: Nokia, Nokia Shaghai Bell*

**Abstract:**

This is draft CR to TS 38.141-2 with proposal to correct in OTA test specification naming of test configurations and NRTC4 details description.

**Decision:** The document was **not treated**.

**R4-2113500 Draft CR to TS 38.141-2 test configuration corrections**

*Type: draftCR For: Endorsement  
 38.141-2 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Nokia, Nokia Shaghai Bell*

**Abstract:**

This is draft CR to TS 38.141-2 with proposal to correct in OTA test specification naming of test configurations and NRTC4 details description.

**Decision:** The document was **not treated**.

**R4-2113501 Draft CR to TS 38.141-2 test configuration corrections**

*Type: draftCR For: Endorsement  
 38.141-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shaghai Bell*

**Abstract:**

This is draft CR to TS 38.141-2 with proposal to correct in OTA test specification naming of test configurations and NRTC4 details description.

**Decision:** The document was **not treated**.

##### 5.1.5.4 eAAS specifications maintenance

**Topic #3: Test configuration for NC operation**

**R4-2113071 Correction on the test configuration for NC operation 37.145-1 R15**

*Type: draftCR For: Endorsement  
 37.145-1 v15.10.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113072 Correction on the test configuration for NC operation 37.145-1 R16**

*Type: draftCR For: Endorsement  
 37.145-1 v16.7.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113073 Correction on the test configuration for NC operation 37.145-1 R17**

*Type: draftCR For: Endorsement  
 37.145-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113074 Correction on the test configuration for NC operation 37.145-2 R15**

*Type: draftCR For: Endorsement  
 37.145-2 v15.11.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113075 Correction on the test configuration for NC operation 37.145-2 R16**

*Type: draftCR For: Endorsement  
 37.145-2 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113076 Correction on the test configuration for NC operation 37.145-2 R17**

*Type: draftCR For: Endorsement  
 37.145-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**Topic #5: Array antenna model extension**

**R4-2113313 CR to TR 37.842: Addition of array antenna model extension in subclause 5.3.3**

*Type: CR For: Agreement  
 37.842 v13.3.0 CR-0017 rev Cat: F (Rel-13)  
  
 Source: Ericsson*

**Abstract:**

At last RAN4 meeting an extension of the antenna array model originally defined in TR 37.842 to support sub-arrays was agreed. The extension of the model and corresponding relevant model parameters was communicated to ITU-R WP 5D and CEPT in an LS (R4-210

**Decision:** The document was **not treated**.

**Topic #8: additional spurious emission limits for bands 50, 51, 75, 76**

**R4-2113987 TS 37.105: Correction of additional spurious emission limits for bands 50, 51, 75, 76**

*Type: draftCR For: Endorsement  
 37.105 v15.13.0 CR- rev Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Correction of the additional unwanted emission limit as it is not aligned with core specifications

**Decision:** The document was **not treated**.

**R4-2113988 TS 37.105: Correction of additional spurious emission limits for bands 50, 51, 75, 76**

*Type: draftCR For: Endorsement  
 37.105 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Correction of the additional unwanted emission limit as it is not aligned with core specifications

**Decision:** The document was **not treated**.

**R4-2113989 TS 37.105: Correction of additional spurious emission limits for bands 50, 51, 75, 76**

*Type: draftCR For: Endorsement  
 37.105 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Correction of the additional unwanted emission limit as it is not aligned with core specifications

**Decision:** The document was **not treated**.

**R4-2113990 TS 37.145-1: Correction of additional spurious emission limits for bands 50, 51, 75, 76**

*Type: draftCR For: Endorsement  
 37.145-1 v15.10.0 CR- rev Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Correction of the additional unwanted emission limit as it is not aligned with core specifications

**Decision:** The document was **not treated**.

**R4-2113991 TS 37.145-1: Correction of additional spurious emission limits for bands 50, 51, 75, 76**

*Type: draftCR For: Endorsement  
 37.145-1 v16.7.0 CR- rev Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Correction of the additional unwanted emission limit as it is not aligned with core specifications

**Decision:** The document was **not treated**.

**R4-2113992 TS 37.145-1: Correction of additional spurious emission limits for bands 50, 51, 75, 76**

*Type: draftCR For: Endorsement  
 37.145-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Correction of the additional unwanted emission limit as it is not aligned with core specifications

**Decision:** The document was **not treated**.

**R4-2113993 TS 37.145-2: Correction of additional spurious emission limits for bands 50, 51, 75, 76**

*Type: draftCR For: Endorsement  
 37.145-2 v15.11.0 CR- rev Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Correction of the additional unwanted emission limit as it is not aligned with core specifications

**Decision:** The document was **not treated**.

**R4-2113994 TS 37.145-2: Correction of additional spurious emission limits for bands 50, 51, 75, 76**

*Type: draftCR For: Endorsement  
 37.145-2 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Correction of the additional unwanted emission limit as it is not aligned with core specifications

**Decision:** The document was **not treated**.

**R4-2113995 TS 37.145-2: Correction of additional spurious emission limits for bands 50, 51, 75, 76**

*Type: draftCR For: Endorsement  
 37.145-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Correction of the additional unwanted emission limit as it is not aligned with core specifications

**Decision:** The document was **not treated**.

**R4-2113996 TS 37.145-1: Clarifications and corrections on extreme test environment**

*Type: draftCR For: Endorsement  
 37.145-1 v15.10.0 CR- rev Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Clarifications and corrections on extreme test environment, aligning with 38.141-1

**Decision:** The document was **not treated**.

**R4-2113997 TS 37.145-1: Clarifications and corrections on extreme test environment**

*Type: draftCR For: Endorsement  
 37.145-1 v16.7.0 CR- rev Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Clarifications and corrections on extreme test environment, aligning with 38.141-1

**Decision:** The document was **not treated**.

**R4-2113998 TS 37.145-1: Clarifications and corrections on extreme test environment**

*Type: draftCR For: Endorsement  
 37.145-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Clarifications and corrections on extreme test environment, aligning with 38.141-1

**Decision:** The document was **not treated**.

**R4-2113999 TS 37.145-2: Clarifications and corrections on extreme test environment**

*Type: draftCR For: Endorsement  
 37.145-2 v15.11.0 CR- rev Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Clarifications and corrections on extreme test environment, aligning with 38.141-2

**Decision:** The document was **not treated**.

**R4-2114000 TS 37.145-2: Clarifications and corrections on extreme test environment**

*Type: draftCR For: Endorsement  
 37.145-2 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Clarifications and corrections on extreme test environment, aligning with 38.141-2

**Decision:** The document was **not treated**.

**R4-2114001 TS 37.145-2: Clarifications and corrections on extreme test environment**

*Type: draftCR For: Endorsement  
 37.145-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Clarifications and corrections on extreme test environment, aligning with 38.141-2

**Decision:** The document was **not treated**.

**Topic #10: OBUE table header corrections**

**R4-2114402 Draft CR to TS 37.145-2: Additional OBUE table header corrections, Rel-15**

*Type: draftCR For: Endorsement  
 37.145-2 v15.11.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei*

**Abstract:**

During RAN4#98-e meeting, OBUE tables were corrected for the MSR and AAS specifications in a series of CRs (in particular Rel-15 CRs to TS 37.145-2 in R4-2103792 and R4-2103887). In this CR, additional OBUE table header corrections are provided to correct

**Decision:** The document was **not treated**.

**R4-2114403 Draft CR to TS 37.145-2: Additional OBUE table header corrections, Rel-16**

*Type: draftCR For: Endorsement  
 37.145-2 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei*

**Abstract:**

During RAN4#98-e meeting, OBUE tables were corrected for the MSR and AAS specifications in a series of CRs (in particular Rel-16 CRs to TS 37.145-2 in R4-2102427 and R4-2103784). In this CR, additional OBUE table header corrections are provided to correct

**Decision:** The document was **not treated**.

**R4-2114404 Draft CR to TS 37.145-2: Additional OBUE table header corrections, Rel-17**

*Type: draftCR For: Endorsement  
 37.145-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei*

**Abstract:**

During RAN4#98-e meeting, OBUE tables were corrected for the MSR and AAS specifications in a series of CRs (in particular Rel-17 CRs to TS 37.145-2 in R4-2102428 and R4-2102568). In this CR, additional OBUE table header corrections are provided to correct

**Decision:** The document was **not treated**.

#### 5.1.6 BS EMC requirements Maintenance

**Refer to Email discussion summary of [100-e][303] NR\_EMC, AI 5.1.3,5.1.6,6.1.2.5,9.5.4– Wubin Zhou**

**Sub-topic 2-1: MU value for the effective radiated RF power measurements**

**R4-2112768 Discuss on EMC measurement uncertainty for radiated emission**

*Type: discussion For: Approval  
 Source: ZTE Corporation*

**Abstract:**

In this contribution, we give some discussion on the EMC measurement uncertainty.

**Decision:** The document was **not treated**.

**R4-2112770 CR to TS 38.113: Radiated emission measurement uncertainty(R15)**

*Type: CR For: Agreement  
 38.113 v15.14.0 CR-0041 rev Cat: F (Rel-15)  
  
 Source: ZTE Corporation*

**Abstract:**

Add the uncertainty of radiation emission above 12.75 GHz.

The maximum measurement frequency of radiated emission is limited to 26 GHz.

**Decision:** The document was **not treated**.

**R4-2112772 CR to TS 38.113: Radiated emission measurement uncertainty(R16)**

*Type: CR For: Agreement  
 38.113 v16.4.0 CR-0042 rev Cat: A (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113187 CR to TS 38.113 on Spatial Exclusion description, Release 15**

*Type: draftCR For: Endorsement  
 38.113 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

CR updating Spatial Exclusion description in TS 38.113 Rel 15

**Decision:** The document was **not treated**.

**R4-2113188 CR to TS 38.113 on Spatial Exclusion description, Release 16**

*Type: draftCR For: Endorsement  
 38.113 v16.4.0 CR- rev Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

CR updating Spatial Exclusion description in TS 38.113 Rel 16

**Decision:** The document was **not treated**.

#### 5.1.9 Demodulation and CSI requirements maintenance (38.101-4/38.104)

##### 5.1.9.1 UE demodulation requirements

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**Email discussion for [100-e][320] Demod\_Maintenance\_UE, AI 5.1.9.1, 5.1.9.2,5.2.2.4.1, 6.1.9.4.1, 6.1.3.3, 6.1.5.2– Manasa Raghavan**

**R4-2115610 Email discussion summary for [100-e][320] Demod\_Maintenance\_UE**

*Type: other For: Information  
 Source: Moderator (Apple)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**Introduction of a new propagation definition**

**R4-2111874 Introduction of a new propagation definition**

*Type: draftCR For: Endorsement  
 38.101-4 v15.10.0 CR- rev Cat: F (Rel-15)  
  
 Source: Anritsu Corporation*

**Abstract:**

Added TDLA30-70Hz to Table B.2.2-1.

**Decision:** The document was **not treated**.

**R4-2111875 Introduction of a new propagation definition**

*Type: draftCR For: Endorsement  
 38.101-4 v16.5.0 CR- rev Cat: A (Rel-16)  
  
 Source: Anritsu Corporation*

**Abstract:**

Added TDLA30-70Hz to Table B.2.2-1.

**Decision:** The document was **not treated**.

**R4-2111876 Introduction of a new propagation definition**

*Type: draftCR For: Endorsement  
 38.101-4 v17.1.0 CR- rev Cat: A (Rel-17)  
  
 Source: Anritsu Corporation*

**Abstract:**

Added TDLA30-70Hz to Table B.2.2-1.

**Decision:** The document was **not treated**.

**Sub-topic 1-1 TDD UL-DL pattern alignment for intra-band EN-DC performance TC**

**R4-2111892 TDD UL-DL pattern alignment for intra-band EN-DC performance TC**

*Type: discussion For: Endorsement  
 Source: Anritsu Corporation*

**Abstract:**

In this contribution we raised the issue with a UL/DL configuration alignment between LTE and NR for TDD intra-band EN-DC UE.

**Decision:** The document was **not treated**.

##### 5.1.9.2 CSI requirements

**Correction on RI reporting parameters**

**R4-2111893 CR to RI reporting parameter settings**

*Type: draftCR For: Endorsement  
 38.101-4 v15.10.0 CR- rev Cat: F (Rel-15)  
  
 Source: Anritsu Corporation*

**Abstract:**

Typo with CSI-IM resource type. Periodic -> Aperiodic.

**Decision:** The document was **not treated**.

**R4-2111894 CR to RI reporting parameter settings**

*Type: draftCR For: Endorsement  
 38.101-4 v16.5.0 CR- rev Cat: A (Rel-16)  
  
 Source: Anritsu Corporation*

**Abstract:**

Typo with CSI-IM resource type. Periodic -> Aperiodic.

**Decision:** The document was **not treated**.

**R4-2111895 CR to RI reporting parameter settings**

*Type: draftCR For: Endorsement  
 38.101-4 v17.1.0 CR- rev Cat: A (Rel-17)  
  
 Source: Anritsu Corporation*

**Abstract:**

Typo with CSI-IM resource type. Periodic -> Aperiodic.

**Decision:** The document was **not treated**.

**Correction for PMI TCs**

**R4-2111896 CR to reporting granularity for PMI TCs**

*Type: draftCR For: Endorsement  
 38.101-4 v15.10.0 CR- rev Cat: F (Rel-15)  
  
 Source: Anritsu Corporation*

**Abstract:**

PDSCH & PDSCH DMRS Precoding configuration for ramdom Precoding are added to test parameters in PMI TCs.

**Decision:** The document was **not treated**.

**R4-2111897 CR to reporting granularity for PMI TCs**

*Type: draftCR For: Endorsement  
 38.101-4 v16.5.0 CR- rev Cat: A (Rel-16)  
  
 Source: Anritsu Corporation*

**Abstract:**

PDSCH & PDSCH DMRS Precoding configuration for ramdom Precoding are added to test parameters in PMI TCs.

**Decision:** The document was **not treated**.

**R4-2111898 CR to reporting granularity for PMI TCs**

*Type: draftCR For: Endorsement  
 38.101-4 v17.1.0 CR- rev Cat: A (Rel-17)  
  
 Source: Anritsu Corporation*

**Abstract:**

PDSCH & PDSCH DMRS Precoding configuration for ramdom Precoding are added to test parameters in PMI TCs.

**Decision:** The document was **not treated**.

**Correction on CSI measurement channel**

**R4-2113125 Draft CR on CSI reference measurement channels**

*Type: draftCR For: Endorsement  
 38.101-4 v15.10.0 CR- rev Cat: (Rel-15)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113126 Draft CR on CSI reference measurement channels**

*Type: draftCR For: Endorsement  
 38.101-4 v16.5.0 CR- rev Cat: (Rel-16)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113127 Draft CR on CSI reference measurement channels**

*Type: draftCR For: Endorsement  
 38.101-4 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**Other corerctions**

**R4-2113624 draftCR on TS38.101-4 Correction of parameter configurations in Rel-15**

*Type: draftCR For: Endorsement  
 38.101-4 v15.10.0 CR- rev Cat: (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

Correct parameter configurations in CQI test cases and correct formula for PMI test

**Decision:** The document was **not treated**.

**R4-2113625 draftCR on TS38.101-4 Correction of parameter configurations in Rel-16**

*Type: draftCR For: Endorsement  
 38.101-4 v16.5.0 CR- rev Cat: (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Correct parameter configurations in CQI test cases and correct formula for PMI test

**Decision:** The document was **not treated**.

**R4-2113626 draftCR on TS38.101-4 Correction of parameter configurations in Rel-17**

*Type: draftCR For: Endorsement  
 38.101-4 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Correct parameter configurations in CQI test cases and correct formula for PMI test

**Decision:** The document was **not treated**.

##### 5.1.9.3 BS demodulation requirements

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**Email discussion for [100-e][319] Demod\_Maintenance\_BS, AI 5.1.9.3, 6.1.9.4.3, 6.1.10.4 – Aijun Cao**

**R4-2115609 Email discussion summary for [100-e][319] Demod\_Maintenance\_BS**

*Type: other For: Information  
 Source: Moderator (ZTE)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**Corrections on PUSCH FRC**

**R4-2113754 draftCR: UCI and PTRS overhead for channel bits calculation in PUSCH FRC in TS 38.104 (Rel-15)**

*Type: draftCR For: Endorsement  
 38.104 v15.14.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Samsung*

**Decision:** The document was **not treated**.

**R4-2113755 draftCR: UCI and PTRS overhead for channel bits calculation in PUSCH FRC in TS 38.104 (Rel-16)**

*Type: draftCR For: Endorsement  
 38.104 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Samsung*

**Decision:** The document was **not treated**.

**R4-2113756 draftCR: UCI and PTRS overhead for channel bits calculation in PUSCH FRC TS 38.104 (Rel-17)**

*Type: draftCR For: Endorsement  
 38.104 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Samsung*

**Decision:** The document was **not treated**.

**R4-2113757 draftCR: UCI overhead for channel bits calculation in PUSCH FRC in TS 38.141-1 (Rel-15)**

*Type: draftCR For: Endorsement  
 38.141-1 v15.9.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Samsung*

**Decision:** The document was **not treated**.

**R4-2113758 draftCR: UCI overhead for channel bits calculation in PUSCH FRC in TS 38.141-1 (Rel-16)**

*Type: draftCR For: Endorsement  
 38.141-1 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Samsung*

**Decision:** The document was **not treated**.

**R4-2113759 draftCR: UCI overhead for channel bits calculation in PUSCH FRC in TS 38.141-1 (Rel-17)**

*Type: draftCR For: Endorsement  
 38.141-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Samsung*

**Decision:** The document was **not treated**.

**R4-2113760 draftCR: UCI and PTRS overhead for channel bits calculation in PUSCH FRC in TS 38.141-2 (Rel-15)**

*Type: draftCR For: Endorsement  
 38.141-2 v15.10.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Samsung*

**Decision:** The document was **not treated**.

**R4-2113761 draftCR: UCI and PTRS overhead for channel bits calculation in PUSCH FRC in TS 38.141-2 (Rel-16)**

*Type: draftCR For: Endorsement  
 38.141-2 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Samsung*

**Decision:** The document was **not treated**.

**R4-2113762 draftCR: UCI and PTRS overhead for channel bits calculation in PUSCH FRC in TS 38.141-2 (Rel-17)**

*Type: draftCR For: Endorsement  
 38.141-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon, Nokia, Nokia Shanghai Bell, Samsung*

**Decision:** The document was **not treated**.

**AWGN Noise level for BS demodulation**

**R4-2114405 Draft CR to TS 37.145-2: AWGN noise level for BS demodulation requirements for NR, Rel-15**

*Type: draftCR For: Endorsement  
 37.145-2 v15.11.0 CR- rev Cat: F (Rel-15)  
  
 Source: Huawei*

**Abstract:**

TBD value (and [] brackets) for the AWGN power level at the BS inputs is resolved for the NR radiated performance requirements.

**Decision:** The document was **not treated**.

**R4-2114406 Draft CR to TS 37.145-2: AWGN noise level for BS demodulation requirements for NR, Rel-16**

*Type: draftCR For: Endorsement  
 37.145-2 v16.8.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei*

**Abstract:**

TBD value (and [] brackets) for the AWGN power level at the BS inputs is resolved for the NR radiated performance requirements.

**Decision:** The document was **not treated**.

**R4-2114407 Draft CR to TS 37.145-2: AWGN noise level for BS demodulation requirements for NR, Rel-17**

*Type: draftCR For: Endorsement  
 37.145-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei*

**Abstract:**

TBD value (and [] brackets) for the AWGN power level at the BS inputs is resolved for the NR radiated performance requirements.

**Decision:** The document was **not treated**.

#### 5.1.11 Testability Maintenance (38.810)

### 5.2 LTE maintenance (up to Rel-15)

#### 5.2.2 Other WIs or R16 TEI

##### 5.2.2.1 BS RF requirements

**Correction In-band blocking for multi-band Base Stations**

**R4-2112294 Draft CR to 36.104: Correction In-band blocking for multi-band Base Stations**

*Type: draftCR For: Endorsement  
 36.104 v15.12.0 CR- rev Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

The table notes in the In-band blocking tables for E-UTRA with NB-IoT in-band/guard band operation are updated to include both the missing update from 2016 and the recent clarification from RAN4#99e.

**Decision:** The document was **not treated**.

**R4-2112295 Draft CR to 36.104: Correction In-band blocking for multi-band Base Stations**

*Type: draftCR For: Endorsement  
 36.104 v16.10.0 CR- rev Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The table notes in the In-band blocking tables for E-UTRA with NB-IoT in-band/guard band operation are updated to include both the missing update from 2016 and the recent clarification from RAN4#99e.

**Decision:** The document was **not treated**.

**R4-2112296 Draft CR to 36.104: Correction In-band blocking for multi-band Base Stations**

*Type: draftCR For: Endorsement  
 36.104 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The table notes in the In-band blocking tables for E-UTRA with NB-IoT in-band/guard band operation are updated to include both the missing update from 2016 and the recent clarification from RAN4#99e.

**Decision:** The document was **not treated**.

**R4-2112297 Draft CR to 36.141: Correction In-band blocking for multi-band Base Stations**

*Type: draftCR For: Endorsement  
 36.141 v15.13.0 CR- rev Cat: F (Rel-15)  
  
 Source: Ericsson*

**Abstract:**

The table notes in the In-band blocking tables for E-UTRA with NB-IoT in-band/guard band operation are updated to include both the missing update from 2016 and the recent clarification from RAN4#99e.

**Decision:** The document was **not treated**.

**R4-2112298 Draft CR to 36.141: Correction In-band blocking for multi-band Base Stations**

*Type: draftCR For: Endorsement  
 36.141 v16.10.0 CR- rev Cat: A (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The table notes in the In-band blocking tables for E-UTRA with NB-IoT in-band/guard band operation are updated to include both the missing update from 2016 and the recent clarification from RAN4#99e.

**Decision:** The document was **not treated**.

**R4-2112299 Draft CR to 36.141: Correction In-band blocking for multi-band Base Stations**

*Type: draftCR For: Endorsement  
 36.141 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The table notes in the In-band blocking tables for E-UTRA with NB-IoT in-band/guard band operation are updated to include both the missing update from 2016 and the recent clarification from RAN4#99e.

**Decision:** The document was **not treated**.

##### 5.2.2.4 Demodulation and CSI requirements

**Refer to Email discussion summary of [100-e][320] Demod\_Maintenance\_UE, AI 5.1.9.1, 5.1.9.2,5.2.2.4.1, 6.1.9.4.1, 6.1.3.3, 6.1.5.2– Manasa Raghavan**

###### 5.2.2.4.1 UE demodulation requirements

**Correction on Reference channel for UE Cat M1**

**R4-2111843 Draft CR to Reference Channel Parameters in UE Category M1**

*Type: draftCR For: Endorsement  
 36.101 v15.15.0 CR- rev Cat: F (Rel-15)  
  
 Source: Anritsu Corporation*

**Abstract:**

Corrected Note 5 to fix an inconsistency of scheduling in Table A.3.3.2.1-4. Max t-put is also corrected accordingly.

**Decision:** The document was **not treated**.

**R4-2111844 Draft CR to Reference Channel Parameters in UE Category M1**

*Type: draftCR For: Endorsement  
 36.101 v16.10.0 CR- rev Cat: A (Rel-16)  
  
 Source: Anritsu Corporation*

**Abstract:**

Corrected Note 5 to fix an inconsistency of scheduling in Table A.3.3.2.1-4. Max t-put is also corrected accordingly.

**Decision:** The document was **not treated**.

**R4-2111845 Draft CR to Reference Channel Parameters in UE Category M1**

*Type: draftCR For: Endorsement  
 36.101 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Anritsu Corporation*

**Abstract:**

Corrected Note 5 to fix an inconsistency of scheduling in Table A.3.3.2.1-4. Max t-put is also corrected accordingly.

**Decision:** The document was **not treated**.

###### 5.2.2.4.2 CSI requirements

###### 5.2.2.4.3 BS demodulation requirements

## 6 Rel-16 maintenance for both NR and LTE

### 6.1 NR maintenance

#### 6.1.1 NR-based access to unlicensed spectrum

##### 6.1.1.3 BS RF requirement

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**Email discussion for [100-e][304] NR\_unlic\_BSRF\_Maintenance**

**, AI 6.1.1.3, 6.1.1.4– Fei Xue**

**R4-2115595 Email discussion summary for [100-e][304] NR\_unlic\_BSRF\_Maintenance**

*Type: other For: Information  
 Source: Moderator (ZTE)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**Maintenance CR to TS 38.104**

**R4-2113940 Maintenance CR to TS 38.104: NR-U BS RF requirements**

*Type: CR For: Approval  
 38.104 v16.8.0 CR-0344 rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113941 Maintenance CR to TS 38.104: NR-U BS RF requirements**

*Type: CR For: Approval  
 38.104 v17.2.0 CR-0345 rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

##### 6.1.1.4 BS conformance testing

###### 6.1.1.4.1 Non-contiguous transmission testing

**Topic #2 NR-U non-contiguous transmission testing**

**R4-2113491 NR-U non-contiguous transmission testing for wideband operation**

*Type: other For: Approval  
 Source: Nokia, Nokia Shaghai Bell*

**Abstract:**

In this contribution we provide our further considerations and proposal on non-contiguous transmission.

**Decision:** The document was **not treated**.

**R4-2113938 Discussion on NR-U non-contiguous spectrum operation**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113492 Draft CR to TS 38.141-1 – Test configuration for non-contiguous transmission testing for band n46 and n96**

*Type: draftCR For: Endorsement  
 38.141-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shaghai Bell*

**Abstract:**

This CR introduces to 38.141-1 new test configuration for non-contiguous transmission testing for NR-U operation for bands n46 and n96.

**Decision:** The document was **not treated**.

**R4-2113493 Draft CR to TS 38.141-1 – Test configuration for non-contiguous transmission testing for band n46 and n96**

*Type: draftCR For: Endorsement  
 38.141-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shaghai Bell*

**Abstract:**

This CR introduces to 38.141-1 new test configuration for non-contiguous transmission testing for NR-U operation for bands n46 and n96.

**Decision:** The document was **not treated**.

**R4-2113494 Draft CR to TS 38.141-2 – Test configuration for non-contiguous transmission testing for band n46 and n96**

*Type: draftCR For: Endorsement  
 38.141-2 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shaghai Bell*

**Abstract:**

This CR introduces to 38.141-2 new test configuration for non-contiguous transmission testing for NR-U operation for bands n46 and n96.

**Decision:** The document was **not treated**.

**R4-2113495 Draft CR to TS 38.141-2 – Test configuration for non-contiguous transmission testing for band n46 and n96**

*Type: draftCR For: Endorsement  
 38.141-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shaghai Bell*

**Abstract:**

This CR introduces to 38.141-2 new test configuration for non-contiguous transmission testing for NR-U operation for bands n46 and n96.

**Decision:** The document was **not treated**.

**R4-2113942 Maintenance CR to TS 38.141-1: NR-U BS conformance testing requirements**

*Type: CR For: Approval  
 38.141-1 v16.8.0 CR-0242 rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113943 Maintenance CR to TS 38.141-1: NR-U BS conformance testing requirements**

*Type: CR For: Approval  
 38.141-1 v17.2.0 CR-0243 rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113944 Maintenance CR to TS 38.141-2: NR-U BS conformance testing requirements**

*Type: CR For: Approval  
 38.141-2 v16.8.0 CR-0366 rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113945 Maintenance CR to TS 38.141-2: NR-U BS conformance testing requirements**

*Type: CR For: Approval  
 38.141-2 v17.2.0 CR-0367 rev Cat: A (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

###### 6.1.1.4.2 Others

**Topic #3: MU values for NR-U BS type 1-H**

**R4-2113939 Discussion on MU for EIRP/EIS in TS 38.141-2**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

##### 6.1.1.7 Demodulation and CSI requirements (38.101-4/38.104)

###### 6.1.1.7.1 General

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**Email discussion for [100-e][321] NR\_unlic\_Demod\_Maintenance, AI 6.1.1.7– Pierpaolo Vallese**

**R4-2115611 Email discussion summary for [100-e][321] NR\_unlic\_Demod\_Maintenance**

*Type: other For: Information  
 Source: Moderator (Qualcomm)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2112251 draftCR for newly introduced NR-U UE Performance tests**

*Type: draftCR For: Discussion  
 38.101-4 v16.5.0 CR- rev Cat: (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

###### 6.1.1.7.2 UE demodulation requirements

**Corrrections on PDSCH requirements**

**R4-2114035 CR to TS38.101-4 on PDSCH requirements for standalone NR-U (Rel-16)**

*Type: draftCR For: (not specified)  
 38.101-4 v16.5.0 CR- rev Cat: F (Rel-16)  
  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2114037 CR to TS38.101-4 on PDSCH requirements for standalone NR-U (Rel-17)**

*Type: draftCR For: (not specified)  
 38.101-4 v17.1.0 CR- rev Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**Corrections on RMC**

**R4-2114182 DraftCR on PDSCH Reference measurement channel for NR-U**

*Type: draftCR For: Endorsement  
 38.101-4 v16.5.0 CR- rev Cat: F (Rel-16)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2114183 DraftCR on PDSCH Reference measurement channel for NR-U**

*Type: draftCR For: Endorsement  
 38.101-4 v17.1.0 CR- rev Cat: A (Rel-17)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

###### 6.1.1.7.3 CSI requirements

**Corrections on CSI TCs**

**R4-2112096 Draft CR to 38.101-4 on CQI reporting requirements in Scenario A for NR-U-R16**

*Type: draftCR For: Endorsement  
 38.101-4 v16.5.0 CR- rev Cat: F (Rel-16)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112097 Draft CR to 38.101-4 on CQI reporting requirements in Scenario A for NR-U-R17**

*Type: draftCR For: Endorsement  
 38.101-4 v17.1.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2113771 draftCR: Updates to NR-U CQI requirements for scenario C in TS 38.101-4 (Rel-16)**

*Type: draftCR For: Endorsement  
 38.101-4 v16.5.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113772 draftCR: Updates to NR-U CQI requirements for scenario C in TS 38.101-4 (Rel-17)**

*Type: draftCR For: Endorsement  
 38.101-4 v17.1.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

###### 6.1.1.7.4 BS demodulation requirements

**R4-2113250 NR-U discussion and simulation results**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113769 Updated simulation results for PUCCH format 3 for NR-U**

*Type: other For: Information  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113770 Summary of simulation results for NR-U BS performance requirements**

*Type: other For: Information  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**Corrections on PUCCH format2 and format3 TCs**

**R4-2112036 Correction on PUCCH format2 and format3 performance requirement for TS 38.104**

*Type: draftCR For: Endorsement  
 38.104 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2112037 Correction on PUCCH format2 and format3 performance requirement for TS 38.141-1**

*Type: draftCR For: Endorsement  
 38.141-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2112038 Correction on PUCCH format2 and format3 performance requirement for TS 38.141-2**

*Type: draftCR For: Endorsement  
 38.141-2 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2112039 Correction on PUCCH format2 and format3 performance requirement for TS 38.104**

*Type: draftCR For: Endorsement  
 38.104 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2112040 Correction on PUCCH format2 and format3 performance requirement for TS 38.141-1**

*Type: draftCR For: Endorsement  
 38.141-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2112041 Correction on PUCCH format2 and format3 performance requirement for TS 38.141-2**

*Type: draftCR For: Endorsement  
 38.141-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Samsung*

**Decision:** The document was **not treated**.

**Corrections on PUCCH format 0 and 1 TCs**

**R4-2112400 draft CR for 38.104 for NR-U PUCCH format 0 and 1**

*Type: draftCR For: Endorsement  
 38.104 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

remove SNR brackets and correction

**Decision:** The document was **not treated**.

**R4-2112401 draft CR for 38.141-1 for NR-U PUCCH format 0 and 1 and CG-UCI multiplexing on PUSCH**

*Type: draftCR For: Endorsement  
 38.141-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

remove SNR brackets and correction

**Decision:** The document was **not treated**.

**R4-2112402 draft CR for 38.141-2 for NR-U PUCCH format 0 and 1**

*Type: draftCR For: Endorsement  
 38.141-2 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

remove SNR brackets and correction

**Decision:** The document was **not treated**.

**R4-2112404 draft CR for 38.104 for NR-U PUCCH format 0 and 1**

*Type: draftCR For: Endorsement  
 38.104 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

remove SNR brackets and correction

**Decision:** The document was **not treated**.

**R4-2112405 draft CR for 38.141-1 for NR-U PUCCH format 0 and 1 and CG-UCI multiplexing on PUSCH**

*Type: draftCR For: Endorsement  
 38.141-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

remove SNR brackets and correction

**Decision:** The document was **not treated**.

**R4-2112406 draft CR for 38.141-2 for NR-U PUCCH format 0 and 1**

*Type: draftCR For: Endorsement  
 38.141-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

remove SNR brackets and correction

**Decision:** The document was **not treated**.

**Corrections on PRACH requirements**

**R4-2113251 DraftCR NR-U PRACH demodulation requirements 38.104**

*Type: draftCR For: Endorsement  
 38.104 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Update final PRACH performance requirements

**Decision:** The document was **not treated**.

**R4-2113252 DraftCR NR-U PRACH demodulation requirements 38.104**

*Type: draftCR For: Endorsement  
 38.104 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Update final PRACH performance requirements

**Decision:** The document was **not treated**.

**R4-2113253 DraftCR NR-U BS demod conducted performance requirements 38.141-1**

*Type: draftCR For: Endorsement  
 38.141-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Update final PRACH performance requirements

**Decision:** The document was **not treated**.

**R4-2113254 DraftCR NR-U BS demod conducted performance requirements 38.141-1**

*Type: draftCR For: Endorsement  
 38.141-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Update final PRACH performance requirements

**Decision:** The document was **not treated**.

**R4-2113255 DraftCR NR-U BS demod radiated performance requirements 38.141-2**

*Type: draftCR For: Endorsement  
 38.141-2 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Update final PRACH performance requirements

**Decision:** The document was **not treated**.

**R4-2113256 DraftCR NR-U BS demod radiated performance requirements 38.141-2**

*Type: draftCR For: Endorsement  
 38.141-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Update final PRACH performance requirements

**Decision:** The document was **not treated**.

**Corrections on interlaced PUSCH TCs**

**R4-2113763 draftCR: Updates to interlaced PUSCH related performance requirements in TS 38.104 (Rel-16)**

*Type: draftCR For: Endorsement  
 38.104 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113764 draftCR: Updates to interlaced PUSCH related performance requirements in TS 38.104 (Rel-17)**

*Type: draftCR For: Endorsement  
 38.104 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113765 draftCR: Updates to interlaced PUSCH performance requirements in TS 38.141-1 (Rel-16)**

*Type: draftCR For: Endorsement  
 38.141-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113766 draftCR: Updates to interlaced PUSCH performance requirements in TS 38.141-1 (Rel-17)**

*Type: draftCR For: Endorsement  
 38.141-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113767 draftCR: Updates to interlaced PUSCH performance requirements in TS 38.141-2 (Rel-16)**

*Type: draftCR For: Endorsement  
 38.141-2 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113768 draftCR: Updates to interlaced PUSCH performance requirements in TS 38.141-2 (Rel-17)**

*Type: draftCR For: Endorsement  
 38.141-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**Big CRs?**

**R4-2112403 draft bigCR for 38.141-1 for NR-U BS demodulation**

*Type: draftCR For: Endorsement  
 38.141-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

remove SNR brackets and correction

**Decision:** The document was **not treated**.

**R4-2112407 draft bigCR for 38.141-1 for NR-U BS demodulation**

*Type: draftCR For: Endorsement  
 38.141-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

remove SNR brackets and correction

**Decision:** The document was **not treated**.

**R4-2113291 Big CR NR-U BS demod performance requirements on 38.141-2**

*Type: CR For: Approval  
 38.141-2 v16.8.0 CR-0363 rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113292 Big CR NR-U BS demod performance requirements on 38.141-2**

*Type: CR For: Approval  
 38.141-2 v17.2.0 CR-0364 rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

#### 6.1.2 Integrated Access and Backhaul for NR

##### 6.1.2.1 RF requirements

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**Email discussion for [100-e][305] NR\_IAB\_Maintenance\_Part2, AI 6.1.2.1,6.1.2.2.3, 6.1.2.2.4– Huiping Shan**

**R4-2115597 Email discussion summary for [100-e][305] NR\_IAB\_Maintenance\_Part2**

*Type: other For: Information  
 Source: Moderator (CATT)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**Sub-topic 1-1 LS response to RAN2 for P-max**

**R4-2111925 Draft reply LS on power class and P-max for IAB-MT cell selection**

*Type: LS out For: Approval  
 to RAN2  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2113675 Draft reply LS to RAN2 on power class and P-max for IAB-MT cell selection**

*Type: LS out For: Approval  
 to RAN2  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113946 Discussion on reply LS on power class and P-max for IAB-MT cell selection**

*Type: LS out For: Approval  
 to RAN2  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2114328 LS reply on power class and P-max for IAB-MT cell selection**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we provide our LS response on the RAN2 LS.

**Decision:** The document was **not treated**.

**CR on general part of TS 381.74**

**R4-2114319 CR on general chapter in TS 38.174**

*Type: draftCR For: Endorsement  
 38.174 v16.3.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

add missing reference

**Decision:** The document was **not treated**.

##### 6.1.2.2 RF conformance testing

###### 6.1.2.2.1 General

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**Email discussion for [100-e][305] NR\_IAB\_Maintenance\_Part1, AI 6.1.2.2.1, 6.1.2.2.2– Golebiowski, Bartlomiej**

**R4-2115596 Email discussion summary for [100-e][305] NR\_IAB\_Maintenance\_Part1**

*Type: other For: Information  
 Source: Moderator (Nokia)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**Issue 2-3: IAB with Luant modem testing**

**R4-2114325 IAB with Luant modem testing**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view related to luant modem testing.

**Decision:** The document was **not treated**.

**R4-2114326 CR on removal of Luant modem in conducted performance specification**

*Type: draftCR For: Endorsement  
 38.176-1 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

CR to remove Luant modem from specification

**Decision:** The document was **not treated**.

**R4-2114327 CR on removal of Luant modem in radiated performance specification**

*Type: draftCR For: Endorsement  
 38.176-2 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

CR to remove Luant modem from specification

**Decision:** The document was **not treated**.

**R4-2114159 Maintenance CR to TS 38.176-2**

*Type: CR For: Approval  
 38.176-2 v16.0.0 CR-0001 rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Session Chair: Move to this AI from AI 6.1.2.2.4**

**Decision:** The document was **not treated**.

###### 6.1.2.2.2 Common test issues for conducted and radiated conformance testing

6.1.2.2.2.1 Test Model with High PSD and narrow RBs allocation

**Topic #1: Single RB with high PSD for test model**

**R4-2112266 Proposal on single RB with high PSD test model for IAB**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

In this contribution we further discuss details and provide a proposal for test configuration for IAB using single RB with high PSD allocation

**Decision:** The document was **not treated**.

**R4-2114324 IAB with high PSD testing**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view related to single PRB high PSD testing

**Decision:** The document was **not treated**.

**CR**

**R4-2112267 Draft CR to TS 38.176-1: Addition of test model with single RB allocation for transmitter operating band unwanted emission and spurious emission tests**

*Type: draftCR For: Endorsement  
 38.176-1 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Also use test model with single RB allocation with a higher PSD declared by the vendor for transmitter operating band unwanted emission and spurious emission tests.

**Decision:** The document was **not treated**.

**R4-2112268 Draft CR to TS 38.176-2: Addition of test model with single RB allocation for transmitter operating band unwanted emission and spurious emission tests**

*Type: draftCR For: Endorsement  
 38.176-2 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Also use test model with single RB allocation with a higher PSD declared by the vendor for transmitter operating band unwanted emission and spurious emission tests.

**Decision:** The document was **not treated**.

6.1.2.2.2.2 MU clean-up

6.1.2.2.2.3 Others

**Issue 2-1: Alignment for test models acronyms used in IAB test specifications**

**R4-2113489 Draft CR to TS 38.176-1 – alignment for test models acronyms**

*Type: draftCR For: Endorsement  
 38.176-1 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shaghai Bell*

**Abstract:**

This draft CR introduces corrections to test model acronyms used for test models for some of the IAB tests.

**Decision:** The document was **not treated**.

**R4-2113490 Draft CR to TS 38.176-2 – alignment for test models acronyms**

*Type: draftCR For: Endorsement  
 38.176-2 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shaghai Bell*

**Abstract:**

This draft CR introduces corrections to test model acronyms used for test models for some of the IAB tests.

**Decision:** The document was **not treated**.

**Issue 2-2: Test efficiency optimization update**

**R4-2113676 On test efficiency optimization**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113677 Draft CR to TS 38.809: Test efficiency optimization**

*Type: draftCR For: Endorsement  
 38.809 v16.3.0 CR- rev Cat: (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113679 Draft CR to TS 38.176-2: Test efficiency optimization**

*Type: draftCR For: Endorsement  
 38.176-2 v16.0.0 CR- rev Cat: (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

Session Chair Note: Move to this AI from AI 6.2.2.4

**Decision:** The document was **not treated**.

**R4-2113678 Draft CR to TS 38.176-1: Test efficiency optimization**

*Type: draftCR For: Endorsement  
 38.176-1 v16.0.0 CR- rev Cat: (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

Session Chair Note: Move to this AI from AI 6.2.2.3

**Decision:** The document was **not treated**.

###### 6.1.2.2.3 Conducted conformance testing

**Maintenance for 38.176-1**

**R4-2114158 Maintenance CR to TS 38.176-1**

*Type: CR For: Approval  
 38.176-1 v16.0.0 CR-0001 rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2114227 CR to TS 37.941 - Corrections**

*Type: draftCR For: Agreement  
 38.176-1 v16.0.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei*

**Abstract:**

draft CR with corrections to the IAB conducted conformance TS

**Decision:** The document was **not treated**.

**R4-2114320 CR on conducted performance specificaiton 38.176-1 - TX**

*Type: draftCR For: Endorsement  
 38.176-1 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

further improvement on the 38.176-1 in TX part

**Decision:** The document was **not treated**.

**R4-2114321 CR on conducted performance specificaiton 38.176-1-others**

*Type: draftCR For: Endorsement  
 38.176-1 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

further improvement on the 38.176-1 in others

**Decision:** The document was **not treated**.

###### 6.1.2.2.4 Radiated conformance testing

**Maintenance for 38.176-2**

**R4-2113502 Draft CR to TS 38.176-2 with editorial updates**

*Type: draftCR For: Endorsement  
 38.176-1 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shaghai Bell*

**Abstract:**

This draft CR introduces editorial corrections and updates to 38.176-2 specification excluding demodulation part in clause 8.

**Decision:** The document was **not treated**.

**R4-2113503 Draft CR to TS 38.176-2: Corrections to OTA emissions**

*Type: draftCR For: Endorsement  
 38.176-1 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shaghai Bell*

**Decision:** The document was **not treated**.

**R4-2114322 CR on OTA performance specificaiton 38.176-2 -RX**

*Type: draftCR For: Endorsement  
 38.176-2 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

further improvement on the 38.176-2 in others

**Decision:** The document was **not treated**.

**R4-2114323 CR on OTA performance specificaiton 38.176-2-general and TX**

*Type: draftCR For: Endorsement  
 38.176-2 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

further improvement on the 38.176-2 in TX

**Decision:** The document was **not treated**.

##### 6.1.2.5 EMC performance requirements

**Refer to Email discussion summary of [100-e][303] NR\_EMC, AI 5.1.3,5.1.6,6.1.2.5,9.5.4– Wubin Zhou**

**R4-2112739 CR to TS 38.175: IAB test configurations**

*Type: CR For: Agreement  
 38.175 v16.2.0 CR-0017 rev Cat: F (Rel-16)  
  
 Source: ZTE Corporation*

**Abstract:**

Add TS 38.176-1 and TS 38.176-2 into the references.

Add test configurations for IAB EMC test conditions.

Correct the editorial errors in clause 8 and clause 9.

**Decision:** The document was **not treated**.

**R4-2113189 CR to TS 38.175 on IAB EMC performance requirements**

*Type: draftCR For: Endorsement  
 38.175 v16.2.0 CR- rev Cat: B (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

CR on performance criteria for IAB EMC

**Decision:** The document was **not treated**.

**R4-2114408 Draft CR to TS 38.175: further extension of spatial exclusion considerations for EMC RI test for IAB, Rel-16**

*Type: draftCR For: Endorsement  
 38.175 v16.2.0 CR- rev Cat: B (Rel-16)  
  
 Source: Huawei*

**Abstract:**

This CR provides addittional text for the completion of the spatial exclusion feature in the IAB EMC specification.

**Decision:** The document was **not treated**.

##### 6.1.2.6 Demodulation and CSI requirements

**R4-2114031 Draft CR to TS 38.176-1: Correction of applicability rules for demodulation performance requirements**

*Type: draftCR For: Endorsement  
 38.176-1 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2114032 Draft CR to TS 38.176-2: Correction of applicability rules for demodulation performance requirements**

*Type: draftCR For: Endorsement  
 38.176-2 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

###### 6.1.2.6.1 General

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**Email discussion for [100-e][322] NR\_IAB\_Demod\_Maintenance, AI 6.1.2.6– Axel Mueller**

**R4-2115612 Email discussion summary for [100-e][322] NR\_IAB\_Demod\_Maintenance**

*Type: other For: Information  
 Source: Moderator (Nokia)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**Sub-topic 1-1: 5MHz CBW**

**R4-2114544 On 5MHz CBW in the IAB Rel-16 Specifications**

*Type: discussion For: Discussion  
 Source: Nokia Germany*

**Abstract:**

The paper discussed a need for 5MHz CBW in IAB TSs.

**Decision:** The document was **not treated**.

**Corrections on Appendix**

**R4-2112021 draftCR to TS 38.176-2 IAB-DU performance requirements and parts of DU and MT appendix**

*Type: draftCR For: Endorsement  
 38.176-2 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia Germany*

**Abstract:**

draftCR to TS 38.176-2 IAB-DU performance requirements and parts of DU and MT appendix

**Decision:** The document was **not treated**.

**Correction on Antenna terminology**

**R4-2113357 Draft CR to 38.176-1: Antenna terminology**

*Type: draftCR For: Endorsement  
 38.176-1 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Corrects antenna connector term

**Decision:** The document was **not treated**.

**Correction on Manufacture declaration**

**R4-2113802 draftCR on IAB conducted conformance testing (Manufacturer declarations) to TS 38.176-1**

*Type: draftCR For: Endorsement  
 38.176-1 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

###### 6.1.2.6.2 IAB-DU performance requirements

**R4-2114540 draftCR to TS 38.176-1 IAB-DU performance requirements**

*Type: draftCR For: Endorsement  
 38.176-1 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia Germany*

**Decision:** The document was **not treated**.

###### 6.1.2.6.3 IAB-MT performance requirements

**Sub-topic 2-1: Test setup for CSI reporting**

**R4-2113358 Declaration of IAB-MT optional features**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Proposals for remaining issue on declaration and applicability

**Decision:** The document was **not treated**.

**R4-2114033 View on IAB-MT performance requirements applicability definition in conformance specifications**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2114543 On IAB-MT Performance Requirements**

*Type: discussion For: Discussion  
 Source: Nokia Germany*

**Abstract:**

Discussion of several issues related to IAB demodulation and CSI reporting requirements left after the release of first TSs.

**Decision:** The document was **not treated**.

**R4-2113355 Draft CR to 38.176-1: IAB-MT applicability and declarations**

*Type: draftCR For: Endorsement  
 38.176-1 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Finalizes declaration and applicability rules

**Decision:** The document was **not treated**.

**R4-2113356 Draft CR to 38.176-2: IAB-MT applicability and declarations**

*Type: draftCR For: Endorsement  
 38.176-2 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Finalizes declaration and applicability rules

**Decision:** The document was **not treated**.

**R4-2113800 draftCR on IAB-MT conducted performance requirements (General and Demodulation) in TS 38.174**

*Type: draftCR For: Endorsement  
 38.174 v16.3.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113801 draftCR on IAB-MT conducted conformance testing (CSI reporting and Interworking) to TS 38.176-1**

*Type: draftCR For: Endorsement  
 38.176-1 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113803 draftCR on IAB-MT radiated conformance testing (General and Demodulation) to TS 38.176-2**

*Type: draftCR For: Endorsement  
 38.176-2 v16.0.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114542 draftCR to TS 38.174 IAB-MT CSI reporting radiated performance requirements**

*Type: draftCR For: Endorsement  
 38.174 v16.3.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia Germany*

**Decision:** The document was **not treated**.

#### 6.1.3 5G V2X with NR sidelink

##### 6.1.3.3 Demodulation requirements (38.101-4)

###### 6.1.3.3.1 General

**Refer to Email discussion summary of [100-e][320] Demod\_Maintenance\_UE, AI 5.1.9.1, 5.1.9.2,5.2.2.4.1, 6.1.9.4.1, 6.1.3.3, 6.1.5.2– Manasa Raghavan**

**R4-2112668 Draft CR for Abbreviations for V2X demodulation**

*Type: draftCR For: Endorsement  
 38.101-4 v16.5.0 CR- rev Cat: (Rel-16)  
  
 Source: LG Electronics Inc.*

**Decision:** The document was **not treated**.

**R4-2112671 Draft CR for Abbreviations for V2X demodulation**

*Type: draftCR For: Endorsement  
 38.101-4 v17.1.0 CR- rev Cat: (Rel-17)  
  
 Source: LG Electronics Inc.*

**Decision:** The document was **not treated**.

###### 6.1.3.3.2 Single link test

###### 6.1.3.3.3 Multiple link test

#### 6.1.5 Enhancements on MIMO for NR

##### 6.1.5.2 Others

**Refer to Email discussion summary of [100-e][320] Demod\_Maintenance\_UE, AI 5.1.9.1, 5.1.9.2,5.2.2.4.1, 6.1.9.4.1, 6.1.3.3, 6.1.5.2– Manasa Raghavan**

**Sub-topic 4-1 Applicability of requirements for multi-TRxP**

**R4-2112101 Draft CR to 38.101-4 on Applicability for multi-TRxP test cases-R16**

*Type: draftCR For: Endorsement  
 38.101-4 v16.5.0 CR- rev Cat: F (Rel-16)  
  
 Source: Apple*

Session Chair Note: Move to this AI from AI 6.1.5.1.3

**Decision:** The document was **not treated**.

**R4-2112102 Draft CR to 38.101-4 on Applicability for multi-TRxP test cases-R17**

*Type: draftCR For: Endorsement  
 38.101-4 v17.1.0 CR- rev Cat: A (Rel-17)  
  
 Source: Apple*

Session Chair Note: Move to this AI from AI 6.1.5.1.3

**Decision:** The document was **not treated**.

**R4-2112688 Discussion on applicability for multi-TRxP demodulation requirements**

*Type: discussion For: Discussion  
 Source: Apple*

Session Chair Note: Move to this AI from AI 6.1.5.1.3

**Decision:** The document was **not treated**.

#### 6.1.9 Maintenance for other WIs

**R4-2112780 draft CR Correction of common UE RF requirement 38.307 Annex tables R16**

*Type: draftCR For: Endorsement  
 38.307 v16.7.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2112781 draft CR Correction of common UE RF requirement 38.307 Annex tables R17**

*Type: draftCR For: Endorsement  
 38.307 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

##### 6.1.9.1 BS RF requirements

**Relative calibration approach**

**R4-2113294 Applying relative calibration approach on BS OTA conformance testing**

*Type: discussion For: Agreement  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **not treated**.

**R4-2112235 Relative calibration approach using reference receiver**

*Type: discussion For: Information  
 37.941 v CR- rev Cat: (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **not treated**.

**R4-2112236 Draft CR to TR 37.941: Relative calibration approach**

*Type: draftCR For: Endorsement  
 37.941 v15.2.0 CR- rev Cat: F (Rel-15)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **not treated**.

**R4-2112237 Draft CR to TR 37.941: Relative calibration approach**

*Type: draftCR For: Endorsement  
 37.941 v16.2.0 CR- rev Cat: A (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **not treated**.

**Clarification of power boosted NB-IoT RB placement**

**R4-2112269 Draft CR to TS 38.141-1: Clarification of power boosted NB-IoT RB placement**

*Type: draftCR For: Endorsement  
 38.141-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Specify the FCC emission limits in US 3.45-3.55 GHz band as additional regional operating band unwanted emissions requirements for Band n77.

**Decision:** The document was **not treated**.

**R4-2112270 Draft CR to TS 38.141-1: Clarification of power boosted NB-IoT RB placement**

*Type: draftCR For: Endorsement  
 38.141-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Clarify that the power boosted NB-IoT RB shall be placed at the lower and upper edges of the BS RF bandwidth.

**Decision:** The document was **not treated**.

**MSR band table update**

**R4-2112290 Draft CR to 37.104: MSR band table update**

*Type: draftCR For: Endorsement  
 37.104 v16.10.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The CR introduces revised band tables are introduced where the RAT support is described in separate columns for each RAT, which also reduces the number of table notes from 13 to 6.

**Decision:** The document was **not treated**.

**R4-2112291 Draft CR to 37.104: MSR band table update**

*Type: draftCR For: Endorsement  
 37.104 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The CR introduces revised band tables are introduced where the RAT support is described in separate columns for each RAT, which also reduces the number of table notes from 13 to 6.

**Decision:** The document was **not treated**.

**R4-2112292 Draft CR to 37.141: MSR band table update**

*Type: draftCR For: Endorsement  
 37.141 v16.10.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

The CR introduces revised band tables are introduced where the RAT support is described in separate columns for each RAT, which also reduces the number of table notes from 13 to 6.

**Decision:** The document was **not treated**.

**R4-2112293 Draft CR to 37.141: MSR band table update**

*Type: draftCR For: Endorsement  
 37.141 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

The CR introduces revised band tables are introduced where the RAT support is described in separate columns for each RAT, which also reduces the number of table notes from 13 to 6.

**Decision:** The document was **not treated**.

**FR2 Rx OOB test MU value Math correction**

**R4-2113030 about BS conformance test FR2 Rx out of band test MU calculation**

*Type: discussion For: Agreement  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **not treated**.

**R4-2113028 Draft CR to 37.941: BS OTA test, FR2 Rx OOB test MU value Math correction (14.2.4, 17)**

*Type: draftCR For: Endorsement  
 37.941 v15.2.0 CR- rev Cat: F (Rel-15)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **not treated**.

**R4-2113029 Draft CR to 37.941: BS OTA test, FR2 Rx OOB test MU value Math correction (14.2.4, 17)**

*Type: draftCR For: Endorsement  
 37.941 v16.2.0 CR- rev Cat: A (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **not treated**.

**R4-2114398 Draft CR to TR 37.941: correction of the FR2 upper frequency (43.5 GHz), Rel-16**

*Type: draftCR For: Endorsement  
 37.941 v16.2.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei*

**Abstract:**

It was observed, that for the FR2 MU derivations, the upper frequency range was not captured correctly and does not consider band n259.

**Decision:** The document was **not treated**.

**R4-2114399 Draft CR to TR 37.941: inputs on MU/TT derivation for 47 GHz (band n262), Rel-16**

*Type: draftCR For: Endorsement  
 37.941 v16.2.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei*

**Abstract:**

Based on the work in NR\_47GHz\_Band-Perf, MU values for the band n262 (47.2 – 48.2 GHz) are added for TX requirements. The missing MU values for RX requirements are to be added, once agreed (possibly during the August RAN4 meeting).

**Decision:** The document was **not treated**.

##### 6.1.9.4 Demodulation and CSI requirements

###### 6.1.9.4.1 UE demodulation requirements

**Refer to Email discussion summary of [100-e][320] Demod\_Maintenance\_UE, AI 5.1.9.1, 5.1.9.2,5.2.2.4.1, 6.1.9.4.1, 6.1.3.3, 6.1.5.2– Manasa Raghavan**

**Correction to EN-DC power imbalance TCs**

**R4-2112957 draft CR FR1 EN-DC power imbalance requirements**

*Type: draftCR For: Endorsement  
 38.101-4 v16.5.0 CR- rev Cat: F (Rel-16)  
  
 Source: NTT DOCOMO, INC.*

**Decision:** The document was **not treated**.

**R4-2112958 draft CR FR1 EN-DC power imbalance requirements**

*Type: draftCR For: Endorsement  
 38.101-4 v17.1.0 CR- rev Cat: A (Rel-17)  
  
 Source: NTT DOCOMO, INC.*

**Decision:** The document was **not treated**.

**Corrections to URLLC TCs**

**R4-2113369 Draft CR to 38.101-4: Correction of SNR levels for 0.001% BLER PDSCH requirement**

*Type: draftCR For: Endorsement  
 38.101-4 v16.5.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson, Apple*

**Abstract:**

Includes span margin in SNR levels

**Decision:** The document was **not treated**.

**R4-2113370 Draft CR to 38.101-4: Correction of SNR levels for 0.001% BLER PDSCH requirement**

*Type: draftCR For: Endorsement  
 38.101-4 v17.1.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson, Apple*

**Abstract:**

Includes span margin in SNR levels

**Decision:** The document was **not treated**.

**R4-2113773 draft CR: Updates to PDSCH FRC in TS 38.101-4 for Rel-16**

*Type: draftCR For: Endorsement  
 38.101-4 v16.5.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113774 draft CR: Updates to PDSCH FRC in TS 38.101-4 for Rel-17**

*Type: draftCR For: Endorsement  
 38.101-4 v17.1.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114036 CR to TS38.101-4 on URLLC requirements (Rel-16)**

*Type: draftCR For: (not specified)  
 38.101-4 v16.5.0 CR- rev Cat: F (Rel-16)  
  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2114038 CR to TS38.101-4 on URLLC requirements (Rel-17)**

*Type: draftCR For: (not specified)  
 38.101-4 v17.1.0 CR- rev Cat: A (Rel-17)  
  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

###### 6.1.9.4.2 CSI requirements

###### 6.1.9.4.3 BS demodulation requirements

**Refer to Email discussion summary of [100-e][319] Demod\_Maintenance\_BS, AI 5.1.9.3, 6.1.9.4.3, 6.1.10.4 – Aijun Cao**

**Corrections on NR PUSCH UL TA TCs**

**R4-2111970 CR for TS 38.104:On NR PUSCH UL TA performance requirement(Rel-16)**

*Type: CR For: Agreement  
 38.104 v16.8.0 CR-0338 rev Cat: F (Rel-16)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2111971 CR for TS 38.104:On NR PUSCH UL TA performance requirement(Rel-17)**

*Type: CR For: Agreement  
 38.104 v17.2.0 CR-0339 rev Cat: A (Rel-17)  
  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112325 CR to TS 38.104 Update on UL timing adjustment performance requirements**

*Type: CR For: Approval  
 38.104 v17.2.0 CR-0340 rev Cat: A (Rel-17)  
  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

**R4-2112835 Draft CR to 38.141-1: BS UL TA test condition AWGN level correction (8.2.5)**

*Type: draftCR For: Endorsement  
 38.141-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **not treated**.

**R4-2112836 Draft CR to 38.141-1: BS UL TA test condition AWGN level correction (8.2.5)**

*Type: draftCR For: Endorsement  
 38.141-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **not treated**.

**Correction on Channel model name**

**R4-2112398 draft CR for 38.104 R16 channel model name correction**

*Type: draftCR For: Endorsement  
 38.104 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

correction for channel model name

**Decision:** The document was **not treated**.

**R4-2112399 draft CR for 38.104 R17 channel model name correction**

*Type: draftCR For: Endorsement  
 38.104 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

correction for channel model name

**Decision:** The document was **not treated**.

**R4-2113367 Draft CR to 37.145-2: Correction of AWGN level description for performance requirements**

*Type: draftCR For: Endorsement  
 37.145-2 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell*

**Abstract:**

Corrects unclear description of AWGN level

**Decision:** The document was **not treated**.

**Correction on AWGN level description for performance**

**R4-2113368 Draft CR to 37.145-2: Correction of AWGN level description for performance requirements**

*Type: draftCR For: Endorsement  
 37.145-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson, Nokia, Nokia Shanghai Bell*

**Abstract:**

Corrects unclear description of AWGN level

**Decision:** The document was **not treated**.

**Correction on FRC tables**

**R4-2112519 Correction to FRC parameters table G-FR1-A4-29A**

*Type: discussion For: Agreement  
 38.141-1 v CR- rev Cat: (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Abstract:**

Correction to FRC parameters for G-FR1-A4-29A

Session Chair Note: Move to this AI from AI 5.1.5.2

**Decision:** The document was **not treated**.

**R4-2112653 Draft CR to 38.141-1: FRC table and parameter update for Table A.4-2A, G-FR1-A4-29A**

*Type: draftCR For: Approval  
 38.141-1 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

**Abstract:**

Correcting FRC parameter table A.4-2A, G-FR1-A4-29A.

Code block CRC size, Number of code blocks- C, Code block size parameters are wrong, need to be corrected.

Session Chair Note: Move to this AI from AI 5.1.5.2

**Decision:** The document was **not treated**.

**R4-2112732 Draft CR to 38.141-1: FRC table and parameter update for Table A.4-2A, G-FR1-A4-29A**

*Type: draftCR For: Approval  
 38.141-1 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Abstract:**

Correcting FRC parameter table A.4-2A, G-FR1-A4-29A.

Code block CRC size, Number of code blocks- C, Code block size parameters are wrong, need to be corrected

Session Chair Note: Move to this AI from AI 5.1.5.3

**Decision:** The document was **not treated**.

**R4-2112691 Draft CR to 38.141-2: FRC table and parameter update for Table A.4-2A, G-FR1-A4-29A**

*Type: draftCR For: Approval  
 38.141-2 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: ROHDE & SCHWARZ*

Session Chair Note: Move to this AI from AI 5.1.5.2

**Decision:** The document was **not treated**.

**R4-2112761 Draft CR to 38.141-2: FRC table and parameter update for Table A.4-2A, G-FR1-A4-29A**

*Type: draftCR For: Approval  
 38.141-2 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

Session Chair Note: Move to this AI from AI 5.1.5.3

**Decision:** The document was **not treated**.

##### 6.1.9.5 NR MIMO OTA test methods (38.827)

**Refer to Email discussion summary of [100-e][331] NR\_MIMO\_OTA, AI 6.1.9.5, 9.1– Bozhi Li**

**R4-2112981 Draft CR to TR38.827:correct Positioning ambiguities**

*Type: draftCR For: Endorsement  
 38.827 v16.3.0 CR- rev Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2112982 Draft CR to TR38.827:power validation**

*Type: draftCR For: Endorsement  
 38.827 v16.3.0 CR- rev Cat: F (Rel-16)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

#### 6.1.10 R16 TEI

##### 6.1.10.1 BS RF requirements

##### 6.1.10.4 Demodulation and CSI requirements

**Refer to Email discussion summary of [100-e][319] Demod\_Maintenance\_BS, AI 5.1.9.3, 6.1.9.4.3, 6.1.10.4 – Aijun Cao**

**Correction on FR2 PUCCH format 2 TCs**

**R4-2113628 draftCR 38104 FR2 PUCCH format 2 intraSlot frequency hopping correction for one and two symbols cases**

*Type: draftCR For: Endorsement  
 38.104 v16.8.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Ericsson*

**Abstract:**

Specification mismatch between 38.104 V16/V17 and 38.104 V15/38.141-2. Intra-slot frequency hopping is set to “N/A” in Table 11.3.2.4.1.1-1, and to “enabled” in Table 11.3.2.4.2.1-1.

**Decision:** The document was **not treated**.

**R4-2113629 draftCR 38104 FR2 PUCCH format 2 intraSlot frequency hopping correction for one and two symbols cases**

*Type: draftCR For: Endorsement  
 38.104 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Qualcomm Incorporated, Ericsson*

**Abstract:**

Specification mismatch between 38.104 V16/V17 and 38.104 V15/38.141-2. Intra-slot frequency hopping is set to “N/A” in Table 11.3.2.4.1.1-1, and to “enabled” in Table 11.3.2.4.2.1-1.

**Decision:** The document was **not treated**.

### 6.2 LTE maintenance and TEI

#### 6.2.1 BS RF requirements

#### 6.2.2 UE RF requirements

**R4-2114091 Draft CR MPR and AMPR for LTE CA 256QAM PC2**

*Type: draftCR For: Approval  
 36.101 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114524 draft CR for TS 36.101 correction of Pcmax for LTE V2X (Rel-14)**

*Type: draftCR For: Endorsement  
 36.101 v14.19.0 CR- rev Cat: F (Rel-14)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114525 draft CR for TS 36.101 correction of Pcmax for LTE V2X (Rel-15)**

*Type: draftCR For: Endorsement  
 36.101 v15.15.0 CR- rev Cat: A (Rel-15)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114526 draft CR for TS 36.101 correction of Pcmax for LTE V2X (Rel-16)**

*Type: draftCR For: Endorsement  
 36.101 v16.10.0 CR- rev Cat: A (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114527 draft CR for TS 36.101 correction of Pcmax for LTE V2X (Rel-17)**

*Type: draftCR For: Endorsement  
 36.101 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 6.2.3 RRM requirements

##### 6.2.3.1 RRM core requirements

**R4-2113512 TDD UL-DL and DL-UL switching in LTE DAPS handover**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Further clarification on DL-to-UL and UL-to-DL switching time

**Decision:** The document was **not treated**.

**R4-2113513 Correction on the synchronous condition for DAPS handover**

*Type: draftCR For: Endorsement  
 36.133 v16.10.0 CR- rev Cat: F (Rel-16)  
  
 Source: Ericsson*

**Abstract:**

Add conditions for not expected to transmit / not expected to receive covering both source and target cell. Add autonomous interruption allowance if these conditions are unspecified.

**Decision:** The document was **not treated**.

**R4-2113514 Correction on the synchronous condition for DAPS handover**

*Type: draftCR For: Endorsement  
 36.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Add conditions for not expected to transmit / not expected to receive covering both source and target cell. Add autonomous interruption allowance if these conditions are unspecified.

**Decision:** The document was **not treated**.

**R4-2113829 Clarification on asynchronous DAPS handover R16**

*Type: draftCR For: Endorsement  
 36.133 v16.10.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113830 Clarification on asynchronous DAPS handover R17**

*Type: draftCR For: Endorsement  
 36.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114070 Discussion on RSS based RSRQ for LTE-MTC**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

Discussion on proceeding for RSRQ for configured RSS-based RSRP

**Decision:** The document was **not treated**.

**R4-2114071 Applicability of CRS-based RSRQ for RSS-based RSRP measurement configuration**

*Type: draftCR For: Endorsement  
 36.133 v16.10.0 CR- rev Cat: F (Rel-16)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

CR to introduce CRS-based RSRQ in Rel-16.

**Decision:** The document was **not treated**.

**R4-2114072 Applicability of CRS-based RSRQ for RSS-based RSRP measurement configuration**

*Type: draftCR For: Endorsement  
 36.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

CR to introduce CRS-based RSRQ in Rel-16.

**Decision:** The document was **not treated**.

**R4-2114087 Discussions on RSS based RSRQ measurement for Rel-16 eMTC UE**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

In this contribution we discuss the RSS based RSRQ measurement for release 16 eMTC based on the incoming LS and previous agreement captured in [1].

**Decision:** The document was **not treated**.

**R4-2114200 On RSRQ for RRS-based measurements for LTE-MTC**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2114302 Discussion on remaining issues in Rel-16 eMTC RRM**

*Type: LS out For: Approval  
 to RAN1, RAN2  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114303 CR on remaining issues in Rel-16 eMTC RRM**

*Type: draftCR For: Endorsement  
 36.133 v16.10.0 CR- rev Cat: F (Rel-16)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114304 CR on remaining issues in Rel-16 eMTC RRM R17**

*Type: draftCR For: Endorsement  
 36.133 v17.2.0 CR- rev Cat: A (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 6.2.3.2 RRM performance requirements

#### 6.2.4 Demodulation and CSI requirements

##### 6.2.4.1 UE demodulation requirements

##### 6.2.4.2 CSI requirements

##### 6.2.4.3 BS demodulation requirements

### 6.3 Rel-16 UE feature list maintenance

### 6.4 LS response for WP5D (RP-210747) on recommendations ITU-R M.2070 and ITU -R M.2071 on Unwanted Emissions of IMT-Advanced

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**Email discussion for [100-e][318] LS\_Response\_BSRF(RP-210747,R4-2111719)**

**, AI 6.4,12 (R4-2112288,R4-2114225, R4-2114226, R4-2113039)– Johan Sköld**

**R4-2115608** Email discussion summary for [100-e][318] LS\_Response\_BSRF(RP-210747,R4-2111719)

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**Topic #1: LS response for WP5D on ITU-R M.2070**

**R4-2112289 LS reply on Revision of Recommendations ITU-R M.2070 and ITU-R M.2071 on Unwanted Emissions of IMT-Advanced**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

The paper proposes to ask TS RAN to postpone the response to ITU-R WP5D . An annex shows parts of the updates needed for M.2070 (E-UTRA BS and MSR BS).

**Decision: Revised to R4-2115591 (from R4-2112289).**

**R4-2115591 LS reply on Revision of Recommendations ITU-R M.2070 and ITU-R M.2071 on Unwanted Emissions of IMT-Advanced**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

The paper proposes to ask TS RAN to postpone the response to ITU-R WP5D . An annex shows parts of the updates needed for M.2070 (E-UTRA BS and MSR BS).

**Decision: Return to.**

**R4-2113089 WP5D LS on unwanted emission of IMT-Advanced**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

## 7 Rel-17 maintenance for both NR and LTE

### 7.1 Introduction of FR2 FWA UE with maximum TRP of 23dBm for n257 and n258

**Refer to Email discussion summary of [100-e][323] NR\_R17\_SpectrumWI\_Demod, AI 8.27.5, 8.3.5, 7.1 (R4-2113458)– Kazuyoshi Uesaka**

**R4-2113458 Correction of Noc power level for n257/n258 PC5**

*Type: CR For: Agreement  
 38.101-4 v17.1.0 CR-0267 rev Cat: F (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

Update Noc power level according to R4-2108505

**Decision:** The document was **not treated**.

## 8 Rel-17 spectrum related Work Items for NR

### 8.3 Introduction of NR 47 GHz band

#### 8.3.2 BS RF requirements maintenance (38.104)

#### 8.3.3 BS conformance (38.141)

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**Email discussion for [100-e][307] NR\_47GHz\_Band\_BSRF\_NWM, AI 8.3.2, 8.3.3, R4-2114399– Iwo Angelow**

**R4-2115598** Email discussion summary for [100-e][307] NR\_47GHz\_Band\_BSRF\_NWM

*Type: other For: Information  
 Source: Moderator (Nokia)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2112275 Proposals on BS Receiver Measurement Uncertainties in NR 47 GHz band**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This contribution provides some discussion and proposals to agree on the final BS Receiver Measurement Uncertainties in NR 47 GHz band in this meeting.

**Decision:** The document was **not treated**.

**R4-2113734 47GHz band - Measurement uncertainties for BS requirements**

*Type: other For: Approval  
 Source: Ericsson, Nokia, T-Mobile USA, Dish Network*

**Abstract:**

This contribution discusses the measurement uncertainties for BS requirements at 47GHz

**Decision:** The document was **not treated**.

**R4-2113916 47 GHz band MU and TT for NR BS RF requirement**

*Type: discussion For: Agreement  
 Source: Keysight Technologies UK Ltd, Rohde & Schwarz*

**Decision:** The document was **not treated**.

**R4-2113917 Draft CR to 38.141-2: BS FR2 Rx MU TT table and requirement update for n262 (4.1.2.2, 7.3.5, 7.9.5, C.2)**

*Type: draftCR For: Endorsement  
 38.141-2 v17.2.0 CR- rev Cat: B (Rel-17)  
  
 Source: Keysight Technologies UK Ltd, Rohde & Schwarz*

**Decision:** The document was **not treated**.

**R4-2114365 TP to TR 38.847: BS conformance aspects**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2114366 CR to 38.141-2: Introduction of n262**

*Type: CR For: Approval  
 38.141-2 v17.2.0 CR-0368 rev Cat: B (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

#### 8.3.5 Demodulation and CSI requirements

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**Email discussion for [100-e][323] NR\_R17\_SpectrumWI\_Demod, AI 8.27.5, 8.3.5, 7.1 (R4-2113458)– Kazuyoshi Uesaka**

**R4-2115614 Email discussion summary for [100-e][323] NR\_R17\_SpectrumWI\_Demod**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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##### 8.3.5.1 UE demodulation (38.101-4)

**R4-2112250 Extension of PDSCH Demodulation Requirements to 47 GHz band**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2113135 Applicability of UE demodulation requirements for 47GHz band**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113459 Applicability of FR2 UE demodulation requirements for NR 47GHz band**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the applicability of the existing FR2 UE demodulation requirements to NR 47GHz band (n262).

**Decision:** The document was **not treated**.

**R4-2113460 draft CR: TS 38.101-4: n262 demodulation requirements**

*Type: draftCR For: Endorsement  
 38.101-4 v17.1.0 CR- rev Cat: B (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This draft CR introduces Noc for power level and test applicability for n262.

**Decision:** The document was **not treated**.

**R4-2113796 Discussion on NR UE demodulation for 47GHz band**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 8.3.5.2 BS demodulation (38.104)

### 8.4 Introduction of 900 MHz spectrum to 5G NR applicable for Rail Mobile Radio

#### 8.4.3 BS RF requirements

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**Email discussion for [100-e][317] RAIL\_900\_1900MHz\_BSRF, AI 8.4.3, 8.5.3– Michal Szydelko**

**R4-2115607** Email discussion summary for [100-e][317] RAIL\_900\_1900MHz\_BSRF

*Type: other For: Information  
 Source: Moderator (Huawei)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2113749 RMR 900 MHz - BS RF**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution discusses BS RF requirements aspects when introducing the new RMR 900MHz band

**Decision:** The document was **not treated**.

**R4-2114368 On 900MHz RMR RAN4 BS RF requirements impact due to ECC Decision (20)**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

### 8.5 Introduction of 1900 MHz spectrum to 5G NR applicable for Rail Mobile Radio

#### 8.5.3 BS RF requirements

**Refer to Email discussion summary of [100-e][317] RAIL\_900\_1900MHz\_BSRF, AI 8.4.3, 8.5.3– Michal Szydelko**

**R4-2113752 RMR 1900 MHz - BS RF**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution discusses BS RF requirements aspects when introducing the new RMR 1900MHz band

**Decision:** The document was **not treated**.

**R4-2114371 On 1900MHz RMR RAN4 BS RF requirements impact due to ECC Decision (20)**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

*Type: discussion For: Approval  
 Source: Skyworks Solutions Inc.*

**Abstract:**

In this contribution we discuss the need to reduce the number of NRU UL CA cases to make theMPR/ A-MPR cases manageable

**Decision:** The document was **not treated**.

### 8.27 Introduction of channel bandwidths 35MHz and 45MHz for NR

#### 8.27.5 UE demodulation and CSI requirements

**Refer to Email discussion summary of [100-e][323] NR\_R17\_SpectrumWI\_Demod, AI 8.27.5, 8.3.5, 7.1 (R4-2113458)– Kazuyoshi Uesaka**

**R4-2112153 Simulation results for PDSCH demodulation requirements for 35MHz and 45MHz**

*Type: discussion For: Information  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2113805 draftCR on UE demodulation and CSI repopting for 35MHz and 45MHz channel bandwidth for FR1 FDD**

*Type: draftCR For: Endorsement  
 38.101-4 v17.1.0 CR- rev Cat: F (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

## 9 Rel-17 non-spectrum related work items for NR

### 9.1 Multiple Input Multiple Output (MIMO) Over-the-Air (OTA) requirements for NR UEs

#### 9.1.1 General

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**Email discussion for [100-e][331] NR\_MIMO\_OTA, AI 6.1.9.5, 9.1– Bozhi Li**

**R4-2115622 Email discussion summary for [100-e][331] NR\_MIMO\_OTA**

*Type: other For: Information  
Source: Moderator (Samsung)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2112976 3GPP TS 38.151 v0.5.0**

*Type: draft TS For: Approval  
 38.151 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2112977 Rapporteur input to TS38.151**

*Type: pCR For: Approval  
 38.151 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2114381 TP on Channel Model and DUT Positioning Clarifications**

*Type: pCR For: Approval  
 38.151 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **not treated**.

#### 9.1.2 Performance requirements

##### 9.1.2.1 Performance Requirements for FR1

**R4-2112573 Discussion on FR1 performance requirements**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2112980 Proposal on preliminary FR1 MIMO OTA MU value assessment**

*Type: discussion For: Approval  
 Source: vivo,CAICT*

**Decision:** The document was **not treated**.

**R4-2113312 Time plan for FR1 lab alignment and requirement development**

*Type: discussion For: Approval  
 Source: CAICT, OPPO*

**Decision:** The document was **not treated**.

**R4-2113914 Refinement on lab alignment activity**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

##### 9.1.2.2 Performance Requirements for FR2

**R4-2112245 Discussion on FR2 MIMO OTA performance requirements**

*Type: discussion For: (not specified)  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2113033 Proposal on FR2 MIMO simulator alignment**

*Type: discussion For: Approval  
 Source: MediaTek Beijing Inc.*

**Abstract:**

Proposal: Do a fundamental scenario simulation as Fig 1 firstly, for FR2 MIMO OTA simulator alignment.

**Decision:** The document was **not treated**.

**R4-2114504 Discussion on FR2 MIMO OTA simulation**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 9.1.3 Testing methodologies

##### 9.1.3.1 Testing parameters for Performance

**R4-2112978 TP to TS38.151 on BS beam configuration**

*Type: pCR For: Approval  
 38.151 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: vivo,CAICT*

**Decision:** The document was **not treated**.

**R4-2114528 TP to TS 38.151 on FR1 2x2 BS beam selection**

*Type: pCR For: Approval  
 38.151 v0.5.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114529 update simulation results on FR1 2x2 channel models**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114534 Discussion on probe weight**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114535 TP to TS38.151 v0.4.0 on FR2 Base Station beam configuration**

*Type: pCR For: (not specified)  
 38.151 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.1.3.2 Optimization of test methodologies

**R4-2112862 Consideration on Probe#3 of FR2 MIMO OTA**

*Type: discussion For: Approval  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112979 TP to TS38.151 on Minimum Number of Slots and Power Control**

*Type: pCR For: Approval  
 38.151 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113915 The FR2 blocking issue**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2114380 On Blocking Issue for FR2 MIMO OTA**

*Type: other For: Approval  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **not treated**.

##### 9.1.3.3 Channel model validation

**R4-2113854 Channel Model Targets**

*Type: other For: Approval  
 Source: Spirent Communications*

**Abstract:**

Proposal 1. Use the targets presented in this contribution for the different spatial channel model parameters validation.

**Decision:** The document was **not treated**.

**R4-2113858 Reference Channel Emulation Curves for FR1**

*Type: discussion For: Approval  
 Source: CAICT, CMCC*

**Decision:** The document was **not treated**.

**R4-2114025 Reference curves for FR1 CDL-C Uma**

*Type: discussion For: Approval  
 Source: CAICT, Keysight Technologies UK Ltd, Spirent Communications, CMCC*

**Decision:** The document was **not treated**.

**R4-2114382 Reference Channel Emulation Curves**

*Type: other For: Approval  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **not treated**.

**R4-2114383 Reference Channel Emulation Curves for Validation Purposes**

*Type: other For: Approval  
 Source: Keysight Technologies UK Ltd, Spirent Communications, CMCC, CAICT*

**Decision:** The document was **not treated**.

**R4-2114503 Discussion on FR2 channel model validation**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

### 9.2 Introduction of UE TRP (Total Radiated Power) and TRS (Total Radiated Sensitivity) requirements and test methodologies for FR1 (NR SA and EN-DC)

#### 9.2.1 General and work plan

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**Email discussion for [100-e][332] FR1\_TRP\_TRS\_Part1, AI 9.2.1, 9.2.2, 9.2.3– Ruixin Wang**

**R4-2115623 Email discussion summary for [100-e][332] FR1\_TRP\_TRS\_Part1**

*Type: other For: Information  
Source: Moderator (vivo)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2112364 General considerations of OTA requirements**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112861 Requirements of NR Band n41 Test Configuration and Multiple Antenna Test Methodology**

*Type: discussion For: Approval  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113975 TP to TR38.834 on general aspects**

*Type: pCR For: Approval  
 38.834 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113977 Views on general aspects of TRP TRS WI**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113979 LS to RAN5 on FR1 TRP TRS WI progress (RAN4#100e)**

*Type: LS out For: Approval  
 to RAN5  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113980 Updated workplan of TRP TRS WI**

*Type: Work Plan For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113985 TR 38.834 v0.1.0**

*Type: draft TR For: Approval  
 38.834 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: OPPO, vivo*

**Abstract:**

Draft TR for 38.834 v0.1.0

**Decision:** The document was **not treated**.

#### 9.2.2 SA test methodology

**R4-2112363 Views on test cases which employ hand phantoms**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2113911 Parameter configuration for SA TRP**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113976 Discussion on SA test method**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2114026 On FR1 SA TRP-TRS test**

*Type: discussion For: (not specified)  
 Source: Huawei Tech.(UK) Co.. Ltd*

**Abstract:**

discussion on SA TRP and TRS test conditions

**Decision:** The document was **not treated**.

#### 9.2.3 EN-DC test methodology

**R4-2112249 Discussion on EN-DC test methodology**

*Type: discussion For: (not specified)  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2112362 EN-DC power configuration for TRP/TRS**

*Type: discussion For: Decision  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112574 Discussion on power-split and measurement channels**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2112607 on EN-DC power setting**

*Type: discussion For: (not specified)  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2113912 Power split and DPS**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113978 Discussion on EN-DC test method**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113983 TP for TR 38.834 v0.1.0**

*Type: other For: Endorsement  
 38.834 v CR- rev Cat: (Rel-17)  
  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2114530 on FR1 EN-DC TRP-TRS test methodology**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 9.2.4 UE with multiple antennas test methodology

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**Email discussion for [100-e][333] FR1\_TRP\_TRS\_Part2, AI 9.2.4, 9.2.5– Qifei Liu**

**R4-2115624 Email discussion summary for [100-e][333] FR1\_TRP\_TRS\_Part2**

*Type: other For: Information  
Source: Moderator (OPPO)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2112610 on multi-antenna TRPTRS test**

*Type: discussion For: (not specified)  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2112863 Consideration on Tx Antenna Switching Methodology**

*Type: discussion For: Approval  
 Source: CMCC, Xiaomi*

**Decision:** The document was **not treated**.

**R4-2113913 Views on Transmit Switching**

*Type: discussion For: Approval  
 Source: OPPO*

**Decision:** The document was **not treated**.

**R4-2113986 Tx/Rx switching OTA testing considerations**

*Type: discussion For: Approval  
 38.834 v CR- rev Cat: (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **not treated**.

**R4-2114531 on FR1 TRP-TRS test methodology for UE with multi-antenna switching**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 9.2.5 Others

### 9.5 NR repeater

#### 9.5.1 General

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**Email discussion for [100-e][308] NR\_Repeater\_General, AI 9.5.1– Valentin Gheorghiu**

**R4-2115599 Email discussion summary for [100-e][308] NR\_Repeater\_General**

*Type: other For: Information  
 Source: Moderator (Qualcomm)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2112234 Handling of conformance testing for repeaters**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

##### 9.5.1.1 System parameters

**R4-2111915 Discussion on repeater system parameters**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2113665 Multi-band operation of NR repeaters**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

##### 9.5.1.2 Repeater Class/Type

**R4-2111916 Discussion on repeater class and type**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112197 discussion on repeater classes**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112764 Views on NR repeater classes**

*Type: other For: Approval  
 Source: NTT DOCOMO, INC.*

**Decision:** The document was **not treated**.

**R4-2113204 Discussion on repeater classes and types**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113363 On repeater classes and types**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on repeater classes

**Decision:** The document was **not treated**.

**R4-2113666 Identifying classes and types for NR repeaters**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2114229 Repeater class**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

discussion and draft proposal for the repeater class definitions

**Decision:** The document was **not treated**.

**R4-2114481 Repeater classes for access link**

*Type: discussion For: Approval  
 Source: Qualcomm Incorporated*

**Abstract:**

Discuss repeater classes for the access side

**Decision:** The document was **not treated**.

##### 9.5.1.3 TDD repeater switching requirements

**R4-2111917 Discussion on TDD repeater requirements**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112196 discussion on TDD related requirements**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113207 Discussion on timing requirement for TDD repeater**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113362 Repeater TDD requirements**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

TDD related considerations

**Decision:** The document was **not treated**.

**R4-2113667 TDD repeater switching requirements**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113984 Discussions on TDD switching requirements**

*Type: other For: Discussion  
 Source: Qualcomm CDMA Technologies*

**Decision:** The document was **not treated**.

**R4-2114228 Repeater switching requirement**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

Discussion on the TDD repeater switching requirements

**Decision:** The document was **not treated**.

##### 9.5.1.4 Others

**R4-2112187 Discussion on NR repeater core specification structure**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112188 Skeleton TS 38.106 NR Repeater radio transmission and reception v0.0.1**

*Type: draft TS For: Approval  
 38.106 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113668 Considerations on TDD repeater synchronization and CLI**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

#### 9.5.2 Conductive RF core requirements

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**Email discussion for [100-e][309] NR\_Repeater\_RF\_Part1, AI 9.5.2– Chunxia Guo**

**R4-2115599 Email discussion summary for [100-e][309] NR\_Repeater\_RF\_Part1**

*Type: other For: Information  
 Source: Moderator (CMCC)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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##### 9.5.2.1 Transmitted power related requirements

**R4-2111918 Discussion on NR repeater conducted output power**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112199 discussion on repeater power related conducted requirements**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113205 Discussion on Repeaters Conducted power related requirements**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113360 Repeater conducted output power**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on conducted power requriements

**Decision:** The document was **not treated**.

**R4-2113669 Conducted power related requirements consideration for NR repeaters**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2114482 Repeater conducted and power-related requirements**

*Type: discussion For: Approval  
 Source: Qualcomm Incorporated*

**Abstract:**

Discussion of vaious power related requirements

**Decision:** The document was **not treated**.

##### 9.5.2.2 Emission requirements

**R4-2111920 Discussion on NR repeater conducted emission requirements**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112200 discussion on repeater emission related conducted requirements**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113364 Repeater conducted emissions requirements**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on emissions requirements

**Decision:** The document was **not treated**.

**R4-2113670 Repeater conducted unwanted emissions**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

##### 9.5.2.3 Others

**R4-2111922 Discussion on NR repeater other requirements for FR1**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112198 discussion on other RF conducted requirements for NR repeater**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113206 Discussion on repeater EVM requirements**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113359 Repeater other conducted requirements**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on conducted requriements

**Decision:** The document was **not treated**.

**R4-2113671 Signal quality and OOB gain considerations for FR1 NR repeaters**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

#### 9.5.3 Radiated RF core requirements

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**Email discussion for [100-e][310] NR\_Repeater\_RF\_Part2, AI 9.5.3– Richard Kybett**

**R4-2115600 Email discussion summary for [100-e][310] NR\_Repeater\_RF\_Part2**

*Type: other For: Information  
 Source: Moderator (Huawei)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2114230 Repeater radiated RF requirements**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

Discuss radiated RF requirements

**Decision:** The document was **not treated**.

##### 9.5.3.1 Transmitted power related requirements

**R4-2111919 Discussion on NR repeater radiated output power**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112201 discussion on repeater power related radiated requirements**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112765 Views on output power requirements for FR2 NR repeater**

*Type: other For: Approval  
 Source: NTT DOCOMO, INC.*

**Decision:** The document was **not treated**.

**R4-2113361 Repeater radiated power requirement**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on radiated power requirements

**Decision:** The document was **not treated**.

**R4-2113672 Radiated power related requirements considration for NR repeaters**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

##### 9.5.3.2 Emission requirements

**R4-2111921 Discussion on NR repeater radiated emission requirements**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112203 discussion on repeater emission related radiated requirements**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112766 Views on spurious emission requirements for FR2 NR repeater**

*Type: other For: Approval  
 Source: NTT DOCOMO, INC.*

**Decision:** The document was **not treated**.

**R4-2113365 Repeaters radiated unwanted emissions**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on emissions requirements

**Decision:** The document was **not treated**.

**R4-2113673 Repeater OTA unwanted emissions**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

##### 9.5.3.3 Others

**R4-2111923 Discussion on NR repeater other requirements for FR2**

*Type: other For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112202 discussion on other RF radiated requirements for NR repeater**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113366 Repeater radiated other requirements**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Discussion on radiated requirements

**Decision:** The document was **not treated**.

**R4-2113674 Signal quality and OOB gain considerations for FR2 NR repeaters**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

#### 9.5.4 EMC core requirements

**Refer to Email discussion summary of [100-e][303] NR\_EMC, AI 5.1.3,5.1.6,6.1.2.5,9.5.4– Wubin Zhou**

**R4-2112841 TP to TS38.114: NR repeaters EMC Core requirements**

*Type: pCR For: Approval  
 38.114 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2112864 3GPP TS 38.114 v0.1.0**

*Type: draft TS For: Approval  
 38.114 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: ZTE Corporation*

**Abstract:**

3GPP TS 38.114 v0.1.0

**Decision:** The document was **not treated**.

**R4-2113190 TPs to TS 38.114 on RF Repeater EMC section 8 (Emission)**

*Type: pCR For: Approval  
 38.114 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TPs to TS 38.114 on RF Repeater section 8 (Emission)

**Decision:** The document was **not treated**.

**R4-2113191 TPs to TS 38.114 on RF Repeater EMC section 9 (Immunity)**

*Type: pCR For: Approval  
 38.114 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TPs to TS 38.114 on RF Repeater section 9 (Immunity)

**Decision:** The document was **not treated**.

**R4-2114563 TP to TR 38.114: EMC requirements for NR repeater**

*Type: pCR For: Approval  
 38.114 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei*

**Abstract:**

TP to TS 38.114, based on the previous analyses of the TS 38.113.

**Decision:** The document was **not treated**.

### 9.6 Introduction of DL 1024QAM for NR FR1

#### 9.6.1 General

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**Email discussion for [100-e][311] NR\_DL1024QAM\_BSRF, AI 9.6.1,9.6.2, 9.6.3– Thomas Chapman**

**R4-2115601 Email discussion summary for [100-e][311] NR\_DL1024QAM\_BSRF**

*Type: other For: Information  
 Source: Moderator (Ericsson)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2113951 1024 QAM Deployment Scenarios**

*Type: other For: Approval  
 Source: Ericsson, Nokia, Nokia Shanghai Bell, Verizon, KDDI, SoftBank, NTT DOCOMO, AT&T, SK Telecom, T-Mobile USA*

**Abstract:**

In this contribution, the views of the sourcing companies will be summarized on BS classes.

**Decision:** The document was **not treated**.

#### 9.6.2 BS TX RF requirements

##### 9.6.2.1 Deployment and link level simulation

**R4-2111976 Link level simulation results for 1024QAM for NR FR1**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2113047 Link simulation for support of 1024QAM**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113487 1024QAM simulation results**

*Type: other For: Discussion  
 Source: Nokia, Nokia Shaghai Bell*

**Abstract:**

In this paper we show further simulation results based on latest simulations assumption updates agreed during RAN4#99-e meeting.

**Decision:** The document was **not treated**.

**R4-2113952 System and Link Simulation Results for DL 1024 QAM**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Following the results, Section 2.3, provided is the author’s analysis on the results and the proposed outcome on BS EVM requirement level and the BS class aspects. During past RAN4 meetings there were some company’s’ concerned that wide area base station

**Decision:** The document was **not treated**.

##### 9.6.2.2 EVM requirements

**R4-2111977 BS TX RF requirements for 1024QAM for NR FR1**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2113048 BS RF requirements for support of 1024QAM**

*Type: other For: Approval  
 Source: Huawei, HiSilicon, CMCC*

**Decision:** The document was **not treated**.

**R4-2113049 CR for TS 38.104: 1024QAM**

*Type: CR For: Agreement  
 38.104 v17.2.0 CR-0342 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113488 On EVM requirement for 1024QAM for FR1 DL**

*Type: other For: Approval  
 Source: Nokia, Nokia Shaghai Bell*

**Abstract:**

In this contribution we continue discussion on EVM requirement for 1024QAM.

**Decision:** The document was **not treated**.

**R4-2114184 Discussion on Tx EVM requirements for DL 1024QAM**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2114214 Discussion on BS requirements for NR 1024QAM**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

##### 9.6.2.3 Others

**R4-2111978 BS test requirements for 1024QAM for NR FR1**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

#### 9.6.3 UE RX RF requirements

**R4-2111979 UE RX RF requirements for 1024QAM for NR FR1**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2113050 CR for TS 38.101-1: 1024QAM**

*Type: CR For: Agreement  
 38.101-1 v17.2.0 CR-0900 rev Cat: B (Rel-17)  
  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

### 9.8 Enhancement for NR high speed train scenario in FR1

#### 9.8.3 UE demodulation requirements (38.101-4)

##### 9.8.3.1 General

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**Email discussion for [100-e][324] NR\_HST\_FR1\_Demod, AI 9.8.3– Xiaoran Zhang**

**R4-2115615 Email discussion summary for [100-e][324] NR\_HST\_FR1\_Demod**

*Type: other For: Information  
 Source: Moderator (CMCC)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2113455 Summary for FR1 HST demodulation results**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

This spread sheet summarizes the simulation results of FR1 HST demodulation requirements.

**Decision:** The document was **not treated**.

##### 9.8.3.2 PDSCH requirements for CA scenarios

**R4-2112103 Discussion on PDSCH CA Requirements in HST**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112504 Discussion on FR1 HST UE demodulation for CA scenario**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112511 Simulation results for HST-DPS for CA scenario**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113131 Views on HST CA PDSCH performance requirements**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113192 Discussion on PDSCH requirements for CA scenarios**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113219 Views on HST CA tests for FR1**

*Type: discussion For: Discussion  
 Source: NTT DOCOMO, INC.*

**Decision:** The document was **not treated**.

**R4-2113454 Update of simulation results for CA PDSCH with HST**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

This contributions updates our simulation results for PDSCH demodulation for HST CA.

**Decision:** The document was **not treated**.

**R4-2113456 PDSCH demodulation requirements for CA with HST-SFN scenario**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the open issues of the PDSCH demodulation requirements for CA with HST-SFN scenario.

**Decision:** The document was **not treated**.

**R4-2113790 Discussion on PDSCH CA scenarios for NR UE HST FR1 performance requirements**

*Type: discussion For: Discussion  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113791 Simulation results on PDSCH CA scenarios for NR UE HST FR1 performance requirements**

*Type: other For: Information  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114536 Views on FR1 HST PDSCH CA Tests**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

### 9.9 NR support for high speed train scenario in FR2

#### 9.9.1 General

**R4-2113792 Discussion on general issues for NR FR2 HST deployment scenario**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114024 TR for FR2 HST**

*Type: draft TR For: Endorsement  
 38.854 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell, Samsung*

**Decision:** The document was **not treated**.

#### 9.9.2 High speed train deployment scenario in FR2

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**Email discussion for [100-e][325] NR\_HST\_FR2\_Scenario, AI 9.9.1,9.9.2– Jackson Wang**

**R4-2115616 Email discussion summary for [100-e][325] NR\_HST\_FR2\_Scenario**

*Type: other For: Information  
 Source: Moderator (Samsung)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2112263 On NR FR2 HST Deployment Scenario**

*Type: discussion For: Discussion  
 Source: Qualcomm, Inc.*

**Decision:** The document was **not treated**.

##### 9.9.2.1 Deployment Scenario-A

**R4-2113170 Further discussion on FR2 HST deployment Scenario-A**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2113193 Discussion on NR FR2 HST scenario-A**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113352 HST Scenario A considerations**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Open issues for scenario A

**Decision:** The document was **not treated**.

**R4-2113793 Discussion on NR FR2 HST deployment Scenario-A**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114587 On HST FR2 Deployment Scenario A**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

##### 9.9.2.2 Deployment Scenario-B

**R4-2113171 Further discussion on FR2 HST deployment Scenario-B**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2113194 Discussion on NR FR2 HST scenario-B**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113353 HST scenario B considerations**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Open issues for scenario B

**Decision:** The document was **not treated**.

**R4-2113794 Discussion on NR FR2 HST deployment Scenario-B**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114588 On HST FR2 Deployment Scenario B**

*Type: discussion For: Discussion  
 38.133 v CR- rev Cat: (Rel-17)  
  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

##### 9.9.2.3 Channel modeling

**R4-2113132 Channel models for HST FR2 demodulation requirements**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113172 On FR2 HST channel model**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2113195 Discussion on NR FR2 HST channel model**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113349 Channel model for HST FR2 demodulation requirements**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Proposals for remaining open issues for channel model

**Decision:** The document was **not treated**.

**R4-2113795 Discussion on channel modeling for NR FR2 HST**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114547 On HST FR2 Channel Modeling**

*Type: discussion For: Discussion  
 Source: Nokia Germany*

**Abstract:**

In this contribution, we further disclosed our view on channel modeling for HST deployment scenarios in FR2.

**Decision:** The document was **not treated**.

##### 9.9.2.4 Others

**R4-2114185 Discussion on FR2 HST deployment aspects**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

#### 9.9.5 Demodulation requirements

##### 9.9.5.1 General

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**Email discussion for [100-e][326] NR\_HST\_FR2\_Demod, AI 9.9.5– Yunchuan Yang**

**R4-2115617 Email discussion summary for [100-e][326] NR\_HST\_FR2\_Demod**  *Type: other For: Information  
 Source: Moderator (Samsung)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2112042 View on demodulation requirement for Rel-17 FR2 HST**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2113196 General discussion on demodulation requirements**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

##### 9.9.5.2 UE demodulation requirements

**R4-2112043 View on PDSCH requirement for Rel-17 FR2 HST**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2112252 Discussion on FR2 HST UE Demod Performance Test**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2112500 Discussion on UE demodulation for FR2 HST**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113133 View on DL demodulation requirements for HST FR2**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113197 Discussion on UE demodulation requirements**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113457 UE demodulation requirements for HST FR2**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses the UE demodulation requirements for HST FR2.

**Decision:** The document was **not treated**.

**R4-2113804 Discussion on UE demodulation requirements for FR2 HST**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.9.5.3 BS demodulation requirements

**R4-2113134 View on UL demodulation requirements for HST FR2**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

###### 9.9.5.3.1 PUSCH requirements

**R4-2112044 View on PUSCH requirement for Rel-17 FR2 HST**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2113351 PUSCH demodulation requirements**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Proposals for remaining open issues regarding PUSCH

**Decision:** The document was **not treated**.

**R4-2113797 Discussion on PUSCH demodulation requirements for FR2 HST**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114558 On HST FR2 PUSCH requirements**

*Type: discussion For: Discussion  
 Source: Nokia Germany*

**Decision:** The document was **not treated**.

###### 9.9.5.3.2 PUSCH with UL timing adjustment requirements

**R4-2112045 View on UL timing adjustment requirement for Rel-17 FR2 HST**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2113354 PUSCH timing adjustment requirement**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Proposed timing adjustment parameters

**Decision:** The document was **not treated**.

**R4-2113798 Discussion on PUSCH with UL timing adjustment requirements for FR2 HST**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114560 On HST FR2 PUSCH with UL Timing Adjustment Requirements**

*Type: discussion For: Discussion  
 Source: Nokia Germany*

**Decision:** The document was **not treated**.

###### 9.9.5.3.3 PRACH requirements

**R4-2112046 View on PRACH requirement for Rel-17 FR2 HST**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2113350 PRACH demodulation requirements**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

Proposals for remaining open issues regarding PRACH

**Decision:** The document was **not treated**.

**R4-2113799 Discussion on PRACH demodulation requirements for FR2 HST**

*Type: discussion For: Discussion  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114557 On HST FR2 PRACH Requirements**

*Type: discussion For: Discussion  
 Source: Nokia Germany*

**Decision:** The document was **not treated**.

### 9.12 Further enhancement on NR demodulation performance

#### 9.12.1 General

**R4-2112223 Updated work plan for Further enhancement on NR demodulation performance WI**

*Type: Work Plan For: Approval  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2112224 Draft TR 38.833 v0.1.0: Further enhancement on NR demodulation performance**

*Type: draft TR For: Approval  
 38.833 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: China Telecom*

**Abstract:**

For email approval after the meeting, i.e., to implement the TPs approved during the meeting.

**Decision:** The document was **not treated**.

**R4-2112225 TP to TR 38.833: Skeleton for the section on LTE CRS interference handling**

*Type: pCR For: Approval  
 38.833 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: China Telecom*

**Decision:** The document was **not treated**.

#### 9.12.2 UE demodulation and CSI requirements

##### 9.12.2.1 MMSE-IRC receiver for inter-cell interference

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**Email discussion for [100-e][328] NR\_perf\_enh2\_Demod\_Part2, AI 9.12.2.1, 9.12.2.2– Belov, Dmitry**

**R4-2115620 Email discussion summary for [100-e][328] NR\_perf\_enh2\_Demod\_Part2**

*Type: other For: Information  
 Source: Moderator (Intel)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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###### 9.12.2.1.1 PDSCH requirements

**R4-2112104 Discussion on PDSCH requirements in intercell interference scenarios**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112148 On PDSCH requirements for UE MMSE-IRC receiver for inter-cell interference suppression**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2112207 Discussion on R17 demodulation enhancement for inter-cell interference suppressing**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112208 Simulation results for inter-cell interference suppressing**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112956 Views on MMSE-IRC receiver for inter-cell interference test**

*Type: discussion For: Discussion  
 Source: NTT DOCOMO, INC.*

**Decision:** The document was **not treated**.

**R4-2113118 Discussion on PDSCH demodulation MMSE-IRC requirements for scenario with inter-cell interference**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113638 Remaining issues on MMSE-IRC receiver for inter-cell interference**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses PDSCH requirements for inter-cell IRC

**Decision:** The document was **not treated**.

**R4-2113640 Simulation results on PDSCH performance for inter-cell interference**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

This contribution submits our simulation results for PDSCH demodulation for inter-cell IRC

**Decision:** The document was **not treated**.

**R4-2113780 Discussion on PDSCH requirements for inter-cell MMSE-IRC receiver**

*Type: discussion For: Discussion  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113781 Simulation results for PDSCH requirements for inter-cell MMSE-IRC receiver**

*Type: other For: Information  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114039 Discussion on the MMSE-IRC receiver requirements for inter-cell inter-user interference**

*Type: discussion For: Endorsement  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2114566 Views on Inter-cell Interference PDSCH Tests**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

###### 9.12.2.1.2 CSI requirements

**R4-2112105 Discussion on CSI reporting requirements in intercell interference scenarios**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112149 On CSI requirements for UE MMSE-IRC receiver for inter-cell interference suppression**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2112209 Discussion on CQI reporting related issues for inter-cell interference MMSE-IRC**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113119 Discussion on CSI MMSE-IRC requirements for scenario with inter-cell interference**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113639 Remaining issues on CSI reporting requirements for inter-cell interference**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses CSI reporting requirements for inter-cell IRC

**Decision:** The document was **not treated**.

**R4-2113783 Discussion on CQI tests for inter-cell MMSE-IRC receiver**

*Type: discussion For: Discussion  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

##### 9.12.2.2 MMSE-IRC receiver for intra-cell inter-user interference

**R4-2112106 Discussion on PDSCH requirements in MU-MIMO scenarios**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112150 Views on MMSE-IRC receiver for intra-cell inter-user interference**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2112210 Discussion on R17 demodulation enhancement for intra-cell inter-user interference suppressing**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113120 Discussion on MMSE-IRC requirements for scenario with intra-cell inter-user interference**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113128 TP to TR 38.833: Link level simulation results for Inter-user interference suppression for MU-MIMO**

*Type: pCR For: Approval  
 38.833 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113641 Remaining issues on MMSE-IRC receiver for intra-cell inter-user**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses PDSCH requirements for MU-MIMO

**Decision:** The document was **not treated**.

**R4-2113778 Discussion on intra cell inter-user MMSE-IRC receiver**

*Type: discussion For: Discussion  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113779 Simulation results for intra cell inter-user MMSE-IRC receiver**

*Type: other For: Information  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113782 TP: Introduction of simulation assumptions for inter-cell inter-user MMSE-IRC receiver**

*Type: pCR For: Approval  
 38.833 v0.0.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114040 Discussion on the MMSE-IRC receiver requirements for intra-cell inter-user interference**

*Type: discussion For: (not specified)  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2114414 TP to TR 38.833: Scenario for inter-user interference suppression for MU-MIMO**

*Type: pCR For: Approval  
 38.833 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2114559 Views on Intra-cell Inter-user Interference Scenarios**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

##### 9.12.2.3 Evaluation on CRS interference in scenarios with overlapping spectrum for LTE and NR

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**Email discussion for [100-e][327] NR\_perf\_enh2\_Demod\_Part1, AI 9.12.1, 9.12.3– Shan Yang**

**R4-2115618 Email discussion summary for [100-e][327] NR\_perf\_enh2\_Demod\_Part1**

*Type: other For: Information  
 Source: Moderator (China Telecom)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2112107 Discussion on CRS interference mitigation in NR**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112108 Simulation results for CRS interference mitigation in NR**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2112151 Simulation result collection for CRS interference handling**

*Type: other For: Information  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2112152 Simulation results for CRS interference handling**

*Type: discussion For: Information  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2112211 Discussion on LTE CRS-IM**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112226 Discussion and draft LS on CRS-IM for NR UE in LTE/NR co-existence scenarios**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2112227 TP to TR 38.833: Summary of link level evaluation and conclusion for CRS-IM**

*Type: pCR For: Approval  
 38.833 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2112300 Evaluation on CRS interference in scenarios with overlapping spectrum for LTE and NR**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

In this contribution we have provided our views on the proposed simulation cases for CRS-RM and next step for considering network assistance signalling for CRS-IM

**Decision:** The document was **not treated**.

**R4-2112316 Systems level evaluations on CRS interference in scenarios with overlapping spectrum for LTE and NR**

*Type: discussion For: Decision  
 Source: AT&T*

**Decision:** The document was **not treated**.

**R4-2112332 Views on CRS Interference Mitigation in NR**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2112333 Simulation Results for CRS Interference Mitigation**

*Type: discussion For: Information  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2113121 Discussion on CRS interference handling in scenarios with overlapping spectrum for LTE and NR**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113129 TP to TR 38.833: Link level simulation results for LTE CRS interference handling for NR UE**

*Type: pCR For: Approval  
 38.833 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113621 Discussion on MMSE-IRC receiver for CRS interference**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

Discuss the open issues for MMSE-IRC receiver for CRS interference

**Decision:** The document was **not treated**.

**R4-2113622 Simulation results on PDSCH performance for CRS interference**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

Submit the simualtion results for CRS interference

**Decision:** The document was **not treated**.

**R4-2113623 TP to TR 38.833: Receiver structure for CRS-IM performance**

*Type: pCR For: Approval  
 38.833 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

TP for the receiver structure for CRS-IM interference per work split

**Decision:** The document was **not treated**.

**R4-2113775 Discussion on open issues for CRS-IM receiver**

*Type: discussion For: Discussion  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113776 Simulation results for CRS-IM receiver**

*Type: other For: Information  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113777 TP: Introduction of simulation assumptions for CRS-IM receiver**

*Type: pCR For: Approval  
 38.833 v0.0.0 CR- rev Cat: (Rel-17)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114041 Discussion on PDSCH requirements for CRS-IM**

*Type: discussion For: (not specified)  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

**R4-2114415 TP to TR 38.833 Scenario for LTE CRS interference handling for NR UE**

*Type: pCR For: Approval  
 38.833 v0.0.1 CR- rev Cat: (Rel-17)  
  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

#### 9.12.3 BS demodulation requirements

##### 9.12.3.1 PUSCH demodulation requirements for FR1 256QAM

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**Email discussion for [100-e][329] NR\_perf\_enh2\_Demod\_Part3\_NWM, AI 9.12.3– Tricia Li**

**R4-2115621 Email discussion summary for [100-e][329] NR\_perf\_enh2\_Demod\_Part3\_NWM**

*Type: other For: Information  
 Source: Moderator (Huawei)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2111974 Discussion on PUSCH demodulation requirements for FR1 256QAM**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2111975 Simulation results for PUSCH 256QAM performance requirement**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112035 View on PUSCH demodulation requirement with FR1 256QAM**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2112147 Initial simulation results and discussion on PUSCH FR1 256QAM demodulation requirements**

*Type: discussion For: Discussion  
 Source: China Telecom*

**Decision:** The document was **not treated**.

**R4-2112212 Discussion on BS demodulation requirements for FR1 256QAM**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112213 Simulation results for PUSCH 256QAM performance**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2112326 Link simulation results for PUSCH 256QAM demodulation requirements**

*Type: discussion For: Discussion  
 Source: ZTE Wistron Telecom AB*

**Decision:** The document was **not treated**.

**R4-2112408 Discussion on NR FR1 PUSCH 256QAM demodulation**

*Type: other For: Discussion  
 Source: Ericsson*

**Abstract:**

remain issue discussion on NR FR1 PUSCH 256QAM demodulation

**Decision:** The document was **not treated**.

**R4-2112409 Simulation results for NR FR1 PUSCH 256QAM demodulation**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

simulation results

**Decision:** The document was **not treated**.

**R4-2112763 Views on the combination of SCS and CBW for FR1 PUSCH 256QAM**

*Type: other For: Approval  
 Source: NTT DOCOMO, INC.*

**Decision:** The document was **not treated**.

**R4-2113122 Discussion on PUSCH requirements for FR1 256QAM**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113630 On PUSCH demodulation requirements for FR1 256QAM**

*Type: discussion For: Discussion  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

In this contribution we have provided our views on 256QAM deployment scenarios and requirement test configurations in FR1. In particular, we have discussed the MCS choice and Tx EVM modelling

**Decision:** The document was **not treated**.

**R4-2113631 Simulation results for PUSCH demodulation requirements for FR1 256QAM**

*Type: discussion For: Information  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

In this contribution we have provided our simulation results for PUSCH demodulation requirements for FR1 256QAM.

**Decision:** The document was **not treated**.

**R4-2113784 Discussion on PUSCH demodulation requirements for FR1 256QAM**

*Type: discussion For: Discussion  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113785 Simulation results for PUSCH demodulation requirements for FR1 256QAM**

*Type: other For: Information  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113786 Summary of simulation results for PUSCH requirements for FR1 256QAM**

*Type: other For: Information  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

### 9.13 Solutions for NR to support non-terrestrial networks (NTN)

#### 9.13.1 General and work plan

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**Email discussion for [100-e][312] NTN\_Solutions\_Part1, AI 9.13.1– Dorin Panaitopol**

**R4-2115602 Email discussion summary for [100-e][312] NTN\_Solutions\_Part1**

*Type: other For: Information  
 Source: Moderator (Thales)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2114469 MSS S-Band range (1980-2010 and 2170-2200 MHz) for NTN-FR1 and its adjacent bands**

*Type: discussion For: Agreement  
 Source: Hughes/EchoStar, Inmarsat, Sateliot, Thales*

**Decision:** The document was **not treated**.

##### 9.13.1.1 System parameters

**R4-2111932 Further discussion on NTN System parameters**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112390 NR NTN and Irregular Channel Bandwidths**

*Type: discussion For: Decision  
 Source: GLOBALSTAR Inc.*

**Abstract:**

Discussion of irregular channel bandwidths for NR NTN (also submitted to agenda item 10.2.1).

**Decision:** The document was **not treated**.

**R4-2113183 system parameter for NTN network**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113689 On NTN System parameters**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113745 NTN - System parameters**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution discusses NTN system parameters

**Decision:** The document was **not treated**.

**R4-2113928 Discussion on system parameters for NTN**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

##### 9.13.1.2 NTN gNB Class/Type

**R4-2112009 Discussion on NTN gNB type/class**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112145 Considerations on BS type and BS class**

*Type: discussion For: Discussion  
 Source: SoftBank Corp., Deutsche Telekom*

**Decision:** The document was **not treated**.

**R4-2113184 NTN gNB Class and Types**

*Type: discussion For: Discussion  
 Source: CMCC*

**Decision:** The document was **not treated**.

**R4-2113744 NTN - BS Class and Type**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution discusses NTN BS classes and types

**Decision:** The document was **not treated**.

**R4-2113929 Discussion on NTN gNB class and type**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

##### 9.13.1.3 Regulatory information

**R4-2113741 NTN - Regulatory information**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

Based on Radio Regulations , this contribution is discussing NTN spectrum aspects

**Decision:** The document was **not treated**.

**R4-2114410 Ka band consideration for FR2 NTN**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

In this contribution we provide our views on the Ka band handling in NTN WI.

**Decision:** The document was **not treated**.

##### 9.13.1.4 Others

**R4-2113430 General discussion on how to arrange the specifications for satellite communication system**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113450 Discussion on NTN specification**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2113451 LS on NTN network architecture**

*Type: LS out For: Approval  
 to RAN3  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2113740 NTN - General**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution discusses some NTN general aspects

**Decision:** The document was **not treated**.

**R4-2114412 On the NTN bands numbering**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

In this contribution we provide our views on the NTN bands numbering.

**Decision:** The document was **not treated**.

**R4-2114471 On the New NTN Specifications Titles and their Scope**

*Type: discussion For: Discussion  
 Source: THALES*

**Abstract:**

The goal of this contribution is to further clarify the titles and the scope of the new specifications for NTN related work.

**Decision:** The document was **not treated**.

**R4-2112517 Skeleton of TR 38.863 for NTN related RF and co-existence aspects**

*Type: draft TR For: Approval  
 38.863 v0.1.0 CR- rev Cat: (Rel-17)  
  
 Source: Samsung*

**Abstract:**

This is a draft skeleton of TR 38.863 for discussion and approval.

Session Chair Note: Move to this AI from AI 9.13.2.

**Decision:** The document was **not treated**.

#### 9.13.2 Coexistence aspects

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**Email discussion for [100-e][313] NTN\_Solutions\_Part2, AI 9.13.2– Yiran Jin**

**R4-2115603 Email discussion summary for [100-e][313] NTN\_Solutions\_Part2**

*Type: other For: Information  
 Source: Moderator (Samsung)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2112016 NR-NTN calibration summary and observations**

*Type: agenda For: Discussion  
 Source: Samsung*

**Decision:** The document was **withdrawn**.

**R4-2112716 NR-NTN calibration summary and observations**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2113394 Simulation assumptions and results for NTN co-existence calibration**

*Type: other For: Information  
 Source: Fraunhofer HHI, Fraunhofer IIS*

**Decision:** The document was **not treated**.

##### 9.13.2.1 Coexistence scenarios and Simulation assumptions

**R4-2112012 Further consideration on simulation assumption**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112014 Proposed methodologies and assumptions for NTN co-ex study**

*Type: agenda For: Approval  
 Source: Samsung*

**Decision:** The document was **withdrawn**.

**R4-2112248 Simulation assumptions for NTN co-existence**

*Type: discussion For: (not specified)  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2112588 Proposed methodologies and assumptions for NTN co-ex study**

*Type: discussion For: Approval  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2113311 Simulation assumptions for HAPS co-existence**

*Type: discussion For: (not specified)  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2113427 Further discussion on NTN simulation assumptions**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113690 NTN simulation assumptions for coexistence study**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113742 NTN - Simulation assumptions**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution further discusses simulations assumptions, focusing on deployment models

**Decision:** The document was **not treated**.

**R4-2113930 Further discussion on simulation assumptions for NTN**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2114232 MSS S-Band range (1980-2010 and 2170-2200 MHz) for NTN-FR1 and its adjacent bands**

*Type: discussion For: Agreement  
 Source: Hughes/EchoStar, Inmarsat, Sateliot, Thales*

**Decision:** The document was **not treated**.

**R4-2114424 On the S-band NTN Scenarios and Parameters for Calibration and Coexistence Simulations**

*Type: discussion For: Discussion  
 Source: THALES*

**Abstract:**

The goal of this contribution is to further clarify/define some simulation parameters to be taken into account for coexistence scenarios considered by RAN4 studies.

**Decision:** The document was **not treated**.

**R4-2114425 On the NTN Propagation Model**

*Type: discussion For: Discussion  
 Source: THALES*

**Abstract:**

The goal of this contribution is to further clarify some simulation parameters related to 38.811 NTN propagation model, to be taken into account for coexistence scenarios considered by RAN4 studies.

**Decision:** The document was **not treated**.

##### 9.13.2.2 Simulation results

**R4-2112013 Simulation results for NTN**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112015 Initial NR-NTN co-ex study ACIR results**

*Type: agenda For: Discussion  
 Source: Samsung*

**Decision:** The document was **withdrawn**.

**R4-2112247 Coexistence simulation restuls for TN-NTN**

*Type: discussion For: (not specified)  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2112715 Initial NR-NTN co-ex study ACIR results**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2113296 Coexistence study assumptions on NR to support non-terrestrial networks**

*Type: discussion For: Information  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

**R4-2113310 Simulation restuls for HAPS**

*Type: discussion For: (not specified)  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2113428 Initial NTN simulation Results**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113691 NTN adjacent channel coexistence simulation results**

*Type: discussion For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2113743 NTN - Simulation results for alignment**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution provides out initial simulation results based on the agreed assumptions for alignment

**Decision:** The document was **not treated**.

**R4-2113931 Initial simulation results for NTN coexistence study**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2114486 NTN co-existence calibration with THALES updated values**

*Type: discussion For: Information  
 Source: THALES*

**Abstract:**

NTN co-existence calibration with THALES updated values.

**Decision:** The document was **not treated**.

#### 9.13.3 BS RF requirements

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**Email discussion for [100-e][314] NTN\_Solutions\_Part3, AI 9.13.3, 9.13.4– Yuexia Song**

**R4-2115604 Email discussion summary for [100-e][314] NTN\_Solutions\_Part3**

*Type: other For: Information  
 Source: Moderator (CATT)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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##### 9.13.3.1 TX requirements

**R4-2112010 Tx requirement for NTN gNB**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2113746 NTN - Satellite Node - Tx requirements**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution discusses Satellite node - Tx requirements

**Decision:** The document was **not treated**.

**R4-2113932 Discussion on Tx requirements of satellite gNB**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

##### 9.13.3.2 RX requirements

**R4-2112011 Rx requirement for NTN gNB**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2113747 NTN - Satellite Node - Rx requirements**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

This contribution discusses Satellite node - Rx requirements

**Decision:** The document was **not treated**.

**R4-2113933 Discussion on Rx requirements of satellite gNB**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

#### 9.13.4 UE RF requirements

**R4-2113297 Discussion on UE RF requirements for NR to support non-terrestrial networks**

*Type: other For: Approval  
 Source: Xiaomi*

**Decision:** The document was **not treated**.

##### 9.13.4.1 TX requirements

**R4-2111933 Discussion on UE Tx RF requirements for NTN**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2113429 General discussion on NTN UE RF requirements.**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

##### 9.13.4.2 RX requirements

**R4-2111934 Discussion on UE Rx RF requirements for NTN**

*Type: discussion For: Discussion  
 Source: CATT*

**Decision:** The document was **not treated**.

### 9.16 Extending current NR operation to 71GHz

#### 9.16.5 BS RF requirements

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**Email discussion for [100-e][315] NR\_exto71GHz\_BSRF, AI 9.16.5– Toni lahteensuo**

**R4-2115605 Email discussion summary for [100-e][315] NR\_exto71GHz\_BSRF**  *Type: other For: Information  
 Source: Moderator (Nokia)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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##### 9.16.5.1 TX requirements

**R4-2111749 Discussion on limitation of the measurement interval for the determination of the averaged EVM for FR2-2 and possible test time improvements.**

*Type: discussion For: Discussion  
 Source: ROHDE & SCHWARZ*

**Abstract:**

Demodulating all 320 / 640 slots by default resulting in a very long analysis time (> 1 minute for 640 slots, 960kHz SCS, 2GHz channel bandwidth).

EVM measurement interval of 10ms over 320 / 640 slots is considered unnecessary to determine a reliable E

**Decision:** The document was **not treated**.

**R4-2111972 Discussion on BS TX RF requirements for 52 6-71GHz**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112278 Proposals on BS transmitter requirements for extending current NR operation to 71 GHz**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This contribution provides further proposals on BS transmitter requirements for extending current NR operation to 71 GHz according to the approved WF and the findings in the corresponding study item as recorded in TR 38.808.

**Decision:** The document was **not treated**.

**R4-2113316 On BS RF transmitter requirements for the frequency range 52 to 71 GHz**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this contribution we present an overview of BS transmitter requirements and some proposals necessary to progress the work related to defining RF core requirements for the NR extension up to 71 GHz. To further stimulate the discussion draft specificatio

**Decision:** The document was **not treated**.

**R4-2113857 Discussion on the OBUE mask boundary for 52.6 - 71 GHz**

*Type: other For: Approval  
 Source: NEC*

**Decision:** The document was **not treated**.

**R4-2113922 Discussion on BS Tx requirements for 60GHz**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

##### 9.16.5.2 RX requirements

**R4-2111973 Discussion on BS RX RF requirements for 52 6-71GHz**

*Type: other For: Approval  
 Source: CATT*

**Decision:** The document was **not treated**.

**R4-2112279 Proposals on BS receiver requirements for extending current NR operation to 71 GHz**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Abstract:**

This contribution provides further proposals on BS receiver requirements for extending current NR operation to 71 GHz according to the approved WF and the findings in the corresponding study item as recorded in TR 38.808.

**Decision:** The document was **not treated**.

**R4-2113317 On BS RF receiver requirements for the frequency range 52 to 71 GHz**

*Type: other For: Approval  
 Source: Ericsson*

**Abstract:**

In this contribution we present an overview of BS receiver requirements and some proposals to progress the work. To stimulate the discussion draft specification text applicable for TS 38.104, clause 10 [6] is provided as an attachment at the end of contri

**Decision:** The document was **not treated**.

**R4-2113923 Discussion on BS Rx requirements for 60GHz**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

### 9.17 Enhancements to Integrated Access and Backhaul (IAB) for NR

#### 9.17.1 General

**R4-2112866 RAN4 workplan for Rel-17 IAB enhancement**

*Type: other For: Endorsement  
 Source: Samsung,Qualcomm*

**Decision:** The document was **not treated**.

#### 9.17.2 RF requirements

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**Email discussion for [100-e][316] NR\_eIAB, AI 9.17.1,9.17.2– Yankun Li**

**R4-2115606 Email discussion summary for [100-e][316] NR\_eIAB**

*Type: other For: Information  
 Source: Moderator (Samsung)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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##### 9.17.2.1 Impact for Simultaneous operation of IAB child and parent links

**R4-2112867 Simultaneous operation on IAB-node’s child and parent links**

*Type: other For: Approval  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2113198 Simultaneous operation of IAB child and parent links**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113682 RF requirements for simultaneous IAB-MT and IAB-DU operation**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2114329 RF impact analysis for simultaneous DU and MT operation**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on RF impact on simultaneous operation of DU and MT.

**Decision:** The document was **not treated**.

##### 9.17.2.2 Impact for Timing enhancement

**R4-2112868 Timing enhancement on Rel-17 IAB**

*Type: other For: Approval  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2113199 Timing enhancement for eIAB**

*Type: other For: Approval  
 Source: ZTE Corporation*

**Decision:** The document was **not treated**.

**R4-2113681 Requirements related to different IAB timing cases**

*Type: other For: Approval  
 Source: Nokia, Nokia Shanghai Bell*

**Decision:** The document was **not treated**.

**R4-2114330 IAB MT /DU case 6 timing**

*Type: discussion For: Approval  
 Source: Ericsson*

**Abstract:**

In this paper, we present our view on generic RAN4 work relating to the objectives focusing the timing aspect.

**Decision:** The document was **not treated**.

##### 9.17.2.3 Others

## 10 Rel-17 Study Items for NR

### 10.1 Study on enhanced test methods for FR2 in NR

#### 10.1.1 General

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**Email discussion for [100-e][334] FR2\_enhTestMethods\_Part1, AI 10.1 (Except 10.1.5)– Anatoliy (Toliy) Ioffe**

**R4-2115625 Email discussion summary for [100-e][334] FR2\_enhTestMethods\_Part1**

*Type: other For: Information  
Source: Moderator (Apple)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2112989 TR structure to accommodate OTA test methods for 52.6-71GHz**

*Type: pCR For: Approval  
 38.884 v1.0.0 CR- rev Cat: (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2114249 Work plan updates for Objective 7 of FS\_FR2\_enhTestMethods**

*Type: other For: Approval  
 Source: Intel Corporation, Apple Inc.*

**Decision:** The document was **not treated**.

**R4-2114565 Concluding the study objectives related to f < 52 GHz**

*Type: discussion For: Decision  
 Source: Apple*

**Decision:** The document was **not treated**.

#### 10.1.2 Test methodology for high DL power and low UL power test cases

**R4-2113318 Black-box approach for CFFDNF and Enhancement of permitted methods**

*Type: discussion For: Approval  
 38.884 v CR- rev Cat: (Rel-17)  
  
 Source: ROHDE & SCHWARZ*

**Decision:** The document was **not treated**.

**R4-2114384 On CFFNF and CFFDNF test methodologies for high DL power and low UL power test cases**

*Type: other For: Approval  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **not treated**.

**R4-2114385 TP on high DL power and low UL power test cases**

*Type: pCR For: Approval  
 38.884 v0.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Keysight Technologies UK Ltd, Rohde & Schwarz*

**Decision:** The document was **not treated**.

#### 10.1.3 Polarization basis mismatch

**R4-2111902 Comparison of TSQ measurement methods for TE with dual pol Rx**

*Type: other For: Approval  
 Source: Qualcomm Incorporated*

**Abstract:**

Existing verification methods for Tx signal quality are derived from conducted domain testing and do not provide for coherent combining with dual pol Rx. In this contribution we propose the demodulation strategy for the enhanced TE architecture that woul

**Decision:** The document was **not treated**.

**R4-2112221 Evaluation of FR2 UL transmit signal quality measurement methods**

*Type: discussion For: Approval  
 Source: Rohde & Schwarz*

**Decision:** The document was **not treated**.

**R4-2112255 Evaluation of the DMRS-based channel inversion method for FR2 UL MIMO EVM calculations**

*Type: discussion For: Approval  
 Source: Anritsu Limited*

**Decision:** The document was **not treated**.

**R4-2112986 TP to TR38.884 v0.4.0 on TPMI index for EIRP measurement**

*Type: pCR For: Approval  
 38.884 v1.0.0 CR- rev Cat: (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

#### 10.1.4 Test time reduction

**R4-2112577 Discussion on FR2 test time reduction**

*Type: discussion For: Discussion  
 Source: Samsung*

**Decision:** The document was **not treated**.

**R4-2112987 Further discussions on RSRP(B) based Rx beam peak search**

*Type: discussion For: Approval  
 38.884 v CR- rev Cat: (Rel-17)  
  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2114499 On Non-Uniform TRP grids for PC1**

*Type: other For: Approval  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **not treated**.

**R4-2114541 Spectrum emission mask test time reduction**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

#### 10.1.5 OTA test methods for UE RF, RRM and demodulation for 52.6~71GHz

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**Email discussion for [100-e][335] FR2\_enhTestMethods\_Part2**

**, AI 10.1.5-Aida Vera Lopez**

**R4-2115626 Email discussion summary for [100-e][335] FR2\_enhTestMethods\_Part2**

*Type: other For: Information  
Source: Moderator (Intel)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2112988 Discussion on OTA test methods for B52.6GHz**

*Type: discussion For: Approval  
 Source: vivo*

**Decision:** The document was **not treated**.

**R4-2113532 On 60GHz OTA testing for vehicular UE**

*Type: discussion For: Approval  
 Source: LG Electronics Finland*

**Abstract:**

Document discusses and proposes a way forward on studying the test methods for vehicular device type.

**Decision:** The document was **not treated**.

**R4-2114250 OTA test methods for FR2-2**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2114386 On 52.6-71GHz Testability**

*Type: other For: Approval  
 Source: Keysight Technologies UK Ltd*

**Decision:** The document was **not treated**.

#### 10.1.6 Others

### 10.7 Study on 5G NR UE Application Layer Data Throughput Performance

#### 10.7.1 General and work plan

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**Email discussion for [100-e][330] NR\_ATP, AI 10.7– Gaurav Nigam**

**R4-2115621 Email discussion summary for [100-e][330] NR\_ATP**

*Type: other For: Information  
Source: Moderator (Qualcomm)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

**Conclusion after 1st round**

**Conclusion after 2nd round**

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**R4-2113123 Summary of simulation results for NR UE Application Layer Data Throughput Performance**

*Type: other For: Information  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113130 Draft CR to TR 37.901-5: Simulation results section**

*Type: draftCR For: Endorsement  
 37.901-5 v16.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113644 Draft TP on ATP performance simulation alignment criteria**

*Type: draftCR For: Endorsement  
 37.901-5 v16.4.0 CR- rev Cat: (Rel-17)  
  
 Source: Ericsson*

**Abstract:**

This draft TR submits the section of simulation alignment criteria for ATP

**Decision:** The document was **not treated**.

**R4-2114477 Draft CR on General and Summary Sections in RAN4 study on Application Layer Throughput Requirements**

*Type: draftCR For: Endorsement  
 37.901-5 v16.4.0 CR- rev Cat: (Rel-16)  
  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

**R4-2114569 LS on RAN4 updates to TR 37.901-5**

*Type: LS out For: Agreement  
 to RAN5  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 10.7.2 Test methodology

**R4-2112110 Simulation results for physical layer Throughput**

*Type: discussion For: Discussion  
 Source: Apple*

**Decision:** The document was **not treated**.

**R4-2113124 Discussion on NR UE Application Layer Data Throughput Performance**

*Type: discussion For: Discussion  
 Source: Intel Corporation*

**Decision:** The document was **not treated**.

**R4-2113642 Remaining issues on Test methodology for application layer data throughput performance**

*Type: discussion For: Discussion  
 Source: Ericsson*

**Abstract:**

This contribution discusses ATP methodology

**Decision:** The document was **not treated**.

**R4-2113643 Simulation results for application layer data throughput performance**

*Type: other For: Information  
 Source: Ericsson*

**Abstract:**

This contribution submits our simulation results for ATP

**Decision:** The document was **not treated**.

**R4-2114474 Simulation Results for Application Layer Throughput Tests**

*Type: discussion For: Discussion  
 Source: Qualcomm Incorporated*

**Decision:** The document was **not treated**.

#### 10.7.3 Test parameters

**R4-2113787 Discussion on open issues on Application layer data throughput performance**

*Type: discussion For: Discussion  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113788 Simulation results for application layer data throughput performance**

*Type: other For: Information  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2113789 draftCR:Simulation assumptions for application layer data throughput performance**

*Type: draftCR For: Endorsement  
 37.901-5 v16.4.0 CR- rev Cat: (Rel-16)  
  
 Source: Huawei,HiSilicon*

**Decision:** The document was **not treated**.

**R4-2114042 Simulation results for the study on application layer throughput requirements**

*Type: discussion For: (not specified)  
 Source: MediaTek inc.*

**Decision:** The document was **not treated**.

## 11 Rel-17 Work Items for LTE

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## 12 Liaison and output to other groups

### 12.2 Others

**Refer to Email discussion summary of [100-e][318] LS\_Response\_BSRF(RP-210747,R4-2111719), AI 6.4,12 (R4-2112288,R4-2114225, R4-2114226, R4-2113039)– Johan Sköld**

**Topic #2: LS response to ETSI TFES on blocking requirement**

**R4-2112288 Draft LS to ETSI TFES on the New blocking requirement for Band 1 BSs for protection from RMR in 1900-1910**

*Type: LS out For: Approval  
 to ETSI MSG TFES, cc ETSI RT  
 Source: Ericsson*

**Abstract:**

The LS response gives feedback to the four issues brought up by ETS MSG TFES.

**Decision:** The document was **not treated**.

**R4-2114225 Discussion on DRAFT LS to 3GPP RAN4 on new blocking requirement for Band 1 BSs for protection from RMR in 1900-1910**

*Type: discussion For: Discussion  
 Source: Huawei*

**Abstract:**

Discussion around the questions raised in the LS on protection of 1900-1910

**Decision:** The document was **not treated**.

**R4-2114226 Draft LS out - New blocking requirement for Band 1 BSs for protection from RMR in 1900-1910**

*Type: LS out For: Approval  
 to ETSI MSG TFES, cc ETSI RT  
 Source: Huawei*

**Abstract:**

Draft LS response to the questions raised in the LS on protection of 1900-1910

**Decision:** The document was **not treated**.

**AAS Antenna Model**

**R4-2113039 AAS antenna model**

*Type: other For: Approval  
 Source: Huawei, HiSilicon*

**Decision:** The document was **not treated**.

## BACKUP

**R4-21AAAAA Email discussion summary for**

*Type: other For: Information  
 Source: Moderator (TBA)*

**Abstract:**

**Discussion:**

**Decision: Return to.**

Decision: Revised to R4-2115593 (from R4-2001329).