**3GPP TSG-RAN WG4 Meeting # 111**   **R4-24XXXXX**

**Fukuoka, JP, 20th – 24th May 2024**

**Agenda Item: 7.12.2.1**

**Source: Ericsson**

**Title:** **Updated work split for Rel. 18 positioning**

**Document for: Approval**

# Introduction

RAN4#111 agreed to define the test cases for RRC\_IDLE mode.

***Agreement from ad-hoc session [1]***:

*For RRC\_IDLE RSTD TCs, at least the following applies:*

* *Specify TCs:*
	+ *4 samples with eDRX, for normal and RedCap UEs (without Rx FH)*
	+ *For normal UE: with and without PRS BW aggregation*
* *No TCs for 1 sample*

*For RRC\_IDLE RSRP TCs, at least the following applies:*

* *Specify TCs:*
	+ *4 samples without eDRX, for normal and RedCap UEs (without Rx FH)*
* *No TCs for 1 sample*

*For RRC\_IDLE RSRPP TCs:*

* *No TCs*

*RRC\_IDLE RSCPD TCs:*

* *needed*

*Applicability rules:*

* *For each measurement, UE supporting both RRC\_IDLE and RRC\_INACTIVE shall be tested in RRC\_IDLE and does not need to be tested in RRC\_INACTIVE.*

This document contains the updated work split for the test cases that are agreed to be introduced for RRC\_IDLE mode and the RedCap test cases with the updated clause numbers as agreed in RAN4#111 [2]. The other test cases agreed in RAN4#110bis remain unchanged. The draftCRs for test cases in RRC\_IDLE mode will be submitted by the volunteer companies to RAN4#112.

# DraftCRs for RedCap positioning test cases

Table 1. Work split for measurement delay test cases DraftCRs for RedCap positioning.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Set** | **Title** | **Impacted clause in 38.133** | **Phase** | **Volunteer company** |
| 3-1 | Without Rx FH: RSTD measurement delay in RRC\_CONNECTED state in FR1 | A.16.6.X.1 | I | **MediaTek** |
| 3-2 | Without Rx FH: RSTD measurement delay in RRC\_CONNECTED state in FR2 | A.17.6.X.1 | II |
| 3-3 | Without Rx FH: RSTD measurement delay in RRC\_INACTIVE state in FR1 | A.16.A.X.1 | I |
| 3-4 | Without Rx FH: RSTD measurement delay in RRC\_INACTIVE state in FR2 | A.17.A.X.1 | II |
| 3-5 | Without Rx FH: UE Rx-Tx measurement delay in RRC\_CONNECTED state in FR1 | A.16.6.X1.1 | I | **Ericsson** |
| 3-6 | Without Rx FH: UE Rx-Tx measurement delay in RRC\_CONNECTED state in FR2 | A.17.6.X1.1 | II |
| 3-7 | Without Rx FH: UE Rx-Tx measurement delay in RRC\_INACTIVE state in FR1 | A.16.A.X1.1 | I |
| 3-8 | Without Rx FH: UE Rx-Tx measurement delay in RRC\_INACTIVE state in FR2 | A.17.A.X1.1 | II |
| 3-9 | Without Rx FH: PRS-RSRP measurement delay in RRC\_CONNECTED state in FR1 | A.16.6.X2.1 | I | **Nokia** |
| 3-10 | Without Rx FH: PRS-RSRP measurement delay in RRC\_CONNECTED state in FR2 | A.17.6.X2.1  | I |
| 3-11 | Without Rx FH: PRS-RSRP measurement delay in RRC\_INACTIVE state in FR1 | A.16.A.X2.1  | II |
| 3-12 | Without Rx FH: PRS-RSRP measurement delay in RRC\_INACTIVE state in FR2 | A.17.A.X2.1  | II |
| 3-13 | Without Rx FH: PRS-RSRPP measurement delay in RRC\_CONNECTED state in FR1 | A.16.6.X3.1  | I | **Huawei** |
| 3-14 | Without Rx FH: PRS-RSRPP measurement delay in RRC\_CONNECTED state in FR2 | A.17.6.X3.1 | II |
| 3-15 | Without Rx FH: PRS-RSRPP measurement delay in RRC\_INACTIVE state in FR1 | A.16.A.X3.1  | I |
| 3-16 | Without Rx FH: PRS-RSRPP measurement delay in RRC\_INACTIVE state in FR2 | A.17.A.X3.1  | II |
| 3-17 | With Rx FH: RSTD measurement delay in RRC\_CONNECTED state in FR1 | A.16.6.X.2 | I | **Intel** |
| 3-18 | With Rx FH: RSTD measurement delay in RRC\_CONNECTED state in FR2 | A.17.6.X.2  | I |
| 3-19 | With Rx FH: RSTD measurement delay in RRC\_INACTIVE state in FR1 | A.16.A.X.2  | I |
| 3-20 | With Rx FH: RSTD measurement delay in RRC\_INACTIVE state in FR2 | A.17.A.X.2  | I |
| 3-21 | With Rx FH: UE Rx-Tx measurement delay in RRC\_CONNECTED state in FR1 | A.16.6.X1.2  | I | **CATT** |
| 3-22 | With Rx FH: UE Rx-Tx measurement delay in RRC\_CONNECTED state in FR2 | A.17.6.X1.2  | I |
| 3-23 | With Rx FH: UE Rx-Tx measurement delay in RRC\_INACTIVE state in FR1 | A.16.A.X1.2  | I |
| 3-24 | With Rx FH: UE Rx-Tx measurement delay in RRC\_INACTIVE state in FR2 | A.17.A.X1.2  | I |
| 3-25 | With Rx FH: PRS-RSRP measurement delay in RRC\_CONNECTED state in FR1 | A.16.6.X2.2  | I | **Huawei** |
| 3-26 | With Rx FH: PRS-RSRP measurement delay in RRC\_CONNECTED state in FR2 | A.17.6.X2.2  | II |
| 3-27 | With Rx FH: PRS-RSRP measurement delay in RRC\_INACTIVE state in FR1 | A.16.A.X2.2  | I |
| 3-28 | With Rx FH: PRS-RSRP measurement delay in RRC\_INACTIVE state in FR2 | A.17.A.X2.2  | II |
| 3-29 | With Rx FH: PRS-RSRPP measurement delay in RRC\_CONNECTED state in FR1 | A.16.6.X3.2  | I | **OPPO** |
| 3-30 | With Rx FH: PRS-RSRPP measurement delay in RRC\_CONNECTED state in FR2 | A.17.6.X3.2  | I |
| 3-31 | With Rx FH: PRS-RSRPP measurement delay in RRC\_INACTIVE state in FR1 | A.16.A.X3.2  | II |
| 3-32 | With Rx FH: PRS-RSRPP measurement delay in RRC\_INACTIVE state in FR2 | A.17.A.X3.2  | II |

Table 2. Work split for accuracy test cases DraftCRs for RedCap positioning.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Set** | **Title** | **Impacted clause in 38.133** | **Phase** | **Volunteer company** |
| 4-1 | Without Rx FH: RSTD measurement accuracy TC in RRC\_CONNECTED state in FR1 | A.16.7.X.1  | I | **MediaTek** |
| 4-2 | Without Rx FH: RSTD measurement accuracy TC in RRC\_CONNECTED state in FR2 | A.17.7.X.1  | II |
| 4-3 | Without Rx FH: RSTD measurement accuracy TC in RRC\_INACTIVE state in FR1 | A.16.B.X.1 | I |
| 4-4 | Without Rx FH: RSTD measurement accuracy TC in RRC\_INACTIVE state in FR2 | A.17.B.X.1 | II |
| 4-5 | Without Rx FH: UE Rx-Tx measurement accuracy TC in RRC\_CONNECTED state in FR1 | A.16.7.X1.1  | I | **Ericsson** |
| 4-6 | Without Rx FH: UE Rx-Tx measurement accuracy TC in RRC\_CONNECTED state in FR2 | A.17.7.X1.1  | II |
| 4-7 | Without Rx FH: UE Rx-Tx measurement accuracy TC in RRC\_INACTIVE state in FR1 | A.16.B.X1.1 | I |
| 4-8 | Without Rx FH: UE Rx-Tx measurement accuracy TC in RRC\_INACTIVE state in FR2 | A.17.B.X1.1  | II |
| 4-9 | Without Rx FH: PRS-RSRP measurement accuracy TC in RRC\_CONNECTED state in FR1 | A.16.7.X2.1  | I | **Huawei** |
| 4-10 | Without Rx FH: PRS-RSRP measurement accuracy TC in RRC\_CONNECTED state in FR2 | A.17.7.X2.1  | II |
| 4-11 | Without Rx FH: PRS-RSRP measurement accuracy TC in RRC\_INACTIVE state in FR1 | A.16.B.X2.1  | I |
| 4-12 | Without Rx FH: PRS-RSRP measurement accuracy TC in RRC\_INACTIVE state in FR2 | A.17.B.X2.1  | II |
| 4-13 | Without Rx FH: PRS-RSRPP measurement accuracy TC in RRC\_CONNECTED state in FR1 | A.16.7.X3.1  | II | **ZTE** |
| 4-14 | Without Rx FH: PRS-RSRPP measurement accuracy TC in RRC\_CONNECTED state in FR2 | A.17.7.X3.1  | II |
| 4-15 | Without Rx FH: PRS-RSRPP measurement accuracy TC in RRC\_INACTIVE state in FR1 | A.16.B.X3.1  | II |
| 4-16 | Without Rx FH: PRS-RSRPP measurement accuracy TC in RRC\_INACTIVE state in FR2 | A.17.B.X3.1  | II |
| 4-17 | With Rx FH: RSTD measurement accuracy TC in RRC\_CONNECTED state in FR1 | A.16.7.X.2  | II | **Intel** |
| 4-18 | With Rx FH: RSTD measurement accuracy TC in RRC\_CONNECTED state in FR2 | A.17.7.X.2  | II |
| 4-19 | With Rx FH: RSTD measurement accuracy TC in RRC\_INACTIVE state in FR1 | A.16.B.X.2  | II |
| 4-20 | With Rx FH: RSTD measurement accuracy TC in RRC\_INACTIVE state in FR2 | A.17.B.X.2  | II |
| 4-21 | With Rx FH: UE Rx-Tx measurement accuracy TC in RRC\_CONNECTED state in FR1 | A.16.7.X1.2  | II | **Vivo** |
| 4-22 | With Rx FH: UE Rx-Tx measurement accuracy TC in RRC\_CONNECTED state in FR2 | A.17.7.X1.2  | II |
| 4-23 | With Rx FH: UE Rx-Tx measurement accuracy TC in RRC\_INACTIVE state in FR1 | A.16.B.X1.2  | II |
| 4-24 | With Rx FH: UE Rx-Tx measurement accuracy TC in RRC\_INACTIVE state in FR2 | A.17.B.X1.2  | II |
| 4-25 | With Rx FH: PRS-RSRP measurement accuracy TC in RRC\_CONNECTED state in FR1 | A.16.7.X2.2  | I | **Huawei** |
| 4-26 | With Rx FH: PRS-RSRP measurement accuracy TC in RRC\_CONNECTED state in FR2 | A.17.7.X2.2  | II |
| 4-27 | With Rx FH: PRS-RSRP measurement accuracy TC in RRC\_INACTIVE state in FR1 | A.16.B.X2.2  | I |
| 4-28 | With Rx FH: PRS-RSRP measurement accuracy TC in RRC\_INACTIVE state in FR2 | A.17.B.X2.2  | II |
| 4-29 | With Rx FH: PRS-RSRPP measurement accuracy TC in RRC\_CONNECTED state in FR1 | A.16.7.X3.2 | I | **ZTE** |
| 4-30 | With Rx FH: PRS-RSRPP measurement accuracy TC in RRC\_CONNECTED state in FR2 | A.17.7.X3.2  | I |
| 4-31 | With Rx FH: PRS-RSRPP measurement accuracy TC in RRC\_INACTIVE state in FR1 | A.16.B.X3.2  | I |
| 4-32 | With Rx FH: PRS-RSRPP measurement accuracy TC in RRC\_INACTIVE state in FR2 | A.17.B.X3.2  | I |

# DraftCRs for PRS aggregation test cases

Table 3. Work split for measurement delay test cases DraftCRs for PRS aggregation.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Set** | **Title** | **Impacted clause in 38.133** | **Phase** | **Volunteer company** |
| 5-1 | RSTD measurement reporting delay for PRS aggregation in FR1 in RRC\_CONNECTED state | A.6.6.X | I | **Ericsson** |
| 5-2 | RSTD measurement reporting delay for PRS aggregation in FR2 in RRC\_CONNECTED state | A.7.6.X | II |
| 5-3 | RSTD measurement reporting delay for PRS aggregation in FR1 in RRC\_INACTIVE state | A.6.8.X | I | **CATT** |
| 5-4 | RSTD measurement reporting delay for PRS aggregation in FR2 in RRC\_INACTIVE state | A.7.9.X | I |
| 5-5 | UE Rx-Tx measurement reporting delay for PRS aggregation in FR1 in RRC\_CONNECTED state | A.6.6.X | I | **Qualcomm** |
| 5-6 | UE Rx-Tx measurement reporting delay for PRS aggregation in FR2 in RRC\_CONNECTED state | A.7.6.X | I |
| 5-7 | UE Rx-Tx measurement reporting delay for PRS aggregation in FR1 in RRC\_INACTIVE state | A.6.8.X | I | **Qualcomm** |
| 5-8 | UE Rx-Tx measurement reporting delay for PRS aggregation in FR2 in RRC\_INACTIVE state | A.7.9.X | I |

Table 4. Work split for accuracy test case DraftCRs for PRS aggregation.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Set** | **Title** | **Impacted clause in 38.133** | **Phase** | **Volunteer company** |
| 6-1 | RSTD measurement accuracy TC for PRS aggregation in FR1 in RRC\_CONNECTED state | A.6.7.X | I | **Ericsson** |
| 6-2 | RSTD measurement accuracy TC for PRS aggregation in FR2 in RRC\_CONNECTED state | A.7.7.X | II |
| 6-3 | RSTD measurement accuracy TC for PRS aggregation in FR1 in RRC\_INACTIVE state | A.6.9.X | I | **Huawei** |
| 6-4 | RSTD measurement accuracy TC for PRS aggregation in FR2 in RRC\_INACTIVE state | A.7.9.X | II |
| 6-5 | UE Rx-Tx measurement accuracy TC for PRS aggregation in FR1 in RRC\_CONNECTED state | A.6.7.X | II | **Qualcomm** |
| 6-6 | UE Rx-Tx measurement accuracy TC for PRS aggregation in FR2 in RRC\_CONNECTED state | A.7.7.X | II |
| 6-7 | UE Rx-Tx measurement accuracy TC for PRS aggregation in FR1 in RRC\_INACTIVE state | A.6.9.X | II | **Qualcomm** |
| 6-8 | UE Rx-Tx measurement accuracy TC for PRS aggregation in FR2 in RRC\_INACTIVE state | A.7.9.X | II |

# DraftCRs for carrier phase-based positioning test cases

Table 5. Work split for measurement delay test case DraftCRs for carrier phase-based positioning.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Set** | **Test case** | **Impacted clause in 38.133** | **Phase** | **Volunteer company** |
| 7-1 | RSCPD with RSTD in RRC\_CONNECTED in FR1: measurement delay TC | A.6.6.X | I | **Ericsson** |
| 7-2 | RSCPD with RSTD in RRC\_CONNECTED in FR2: measurement delay TC | A.7.6.X | II |
| 7-3 | RSCPD with RSTD in RRC\_INACTIVE in FR1: measurement delay TC | A.6.8.X | I | **CATT** |
| 7-4 | RSCPD with RSTD in RRC\_INACTIVE in FR2: measurement delay TC | A.7.8.X | I |
| 7-5 | RSCP with UE Rx-Tx in RRC\_CONNECTED in FR1: measurement delay TC | A.6.6.X | I | **Nokia** |
| 7-6 | RSCP with UE Rx-Tx in RRC\_CONNECTED in FR2: measurement delay TC | A.7.6.X | I |
| 7-7 | RSCP with UE Rx-Tx in RRC\_INACTIVE in FR1: measurement delay TC | A.6.8.X | II | **Nokia** |
| 7-8 | RSCP with UE Rx-Tx in RRC\_INACTIVE in FR2: measurement delay TC | A.7.8.X | II |

Table 6. Work split for accuracy test case DraftCRs for carrier phase-based positioning.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Set** | **Test case** | **Impacted clause in 38.133** | **Phase** | **Volunteer company** |
| 8-1 | RSCPD with RSTD in RRC\_CONNECTED in FR1: measurement accuracy TC | A.6.7.X | I (not submitted, submit in August) | **Xiaomi** |
| 8-2 | RSCPD with RSTD in RRC\_CONNECTED in FR2: measurement accuracy TC | A.7.7.X | I (not submitted, submit in August) |
| 8-3 | RSCPD with RSTD in RRC\_INACTIVE in FR1: measurement accuracy TC | A.6.9.X | I (not submitted, submit in August) | **Xiaomi** |
| 8-4 | RSCPD with RSTD in RRC\_INACTIVE in FR2: measurement accuracy TC | A.7.9.X | I (not submitted, submit in August) |
| 8-5 | RSCP with UE Rx-Tx in RRC\_CONNECTED in FR1: measurement accuracy TC | A.6.7.X | I | **Xiaomi** |
| 8-6 | RSCP with UE Rx-Tx in RRC\_CONNECTED in FR2: measurement accuracy TC | A.7.7.X | I |
| 8-7 | RSCP with UE Rx-Tx in RRC\_INACTIVE in FR1: measurement accuracy TC | A.6.9.X | I (not submitted, submit in August) | **Xiaomi** |
| 8-8 | RSCP with UE Rx-Tx in RRC\_INACTIVE in FR2: measurement accuracy TC | A.7.9.X | I (not submitted, submit in August) |

# DraftCRs for LPHAP test cases

Table 7. Work split for measurement delay test case DraftCRs for LPHAP.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Set** | **Test case** | **Impacted clause in 38.133** | **Phase** | **Volunteer company** |
| 9-1 | RSTD measurement delay TC for case 2 when eDRX > 10.24s in RRC\_INACTIVE state for normal UE in FR1 | A.6.8.X | I | **Ericsson** |
| 9-2 | RSTD measurement delay TC for case 2 when eDRX > 10.24s in RRC\_INACTIVE state for RedCap UE in FR1 | A.16.A.X.3 | I |
| 9-3 | UE Rx-Tx measurement delay TC for case 2 when eDRX > 10.24s in RRC\_INACTIVE state for normal UE in FR1 | A.6.8.X | I | **Vivo** |
| 9-4 | UE Rx-Tx measurement delay TC for case 2 when eDRX > 10.24s in RRC\_INACTIVE state for RedCap UE in FR1 | A.16.A.X1.3  | I |
| 9-5 | PRS-RSRP measurement delay TC for case 2 when eDRX > 10.24s in RRC\_INACTIVE state for normal UE in FR1 | A.6.8.X | I | **OPPO** |
| 9-6 | PRS-RSRP measurement delay TC for case 2 when eDRX > 10.24s in RRC\_INACTIVE state for RedCap UE in FR1 | A.16.A.X2.3  | I |
| 9-7 | PRS-RSRPP measurement delay TC for case 2 when eDRX > 10.24s in RRC\_INACTIVE state for normal UE in FR1 | A.6.8.X | II | **Huawei** |
| 9-8 | PRS-RSRPP measurement delay TC for case 2 when eDRX > 10.24s in RRC\_INACTIVE state for RedCap UE in FR1 | A.16.A.X3.3  | II |
| 9-9 | RSTD measurement delay TC for case 2 when eDRX > 10.24s in RRC\_INACTIVE state for normal UE in FR2 | A.7.8.X | II | **Qualcomm** |
| 9-10 | RSTD measurement delay TC for case 2 when eDRX > 10.24s in RRC\_INACTIVE state for RedCap UE in FR2 | A.17.A.X.2  | II |
| 9-11 | UE Rx-Tx measurement delay TC for case 2 when eDRX > 10.24s in RRC\_INACTIVE state for normal UE in FR2 | A.7.8.X | I |
| 9-12 | UE Rx-Tx measurement delay TC for case 2 when eDRX > 10.24s in RRC\_INACTIVE state for RedCap UE in FR2 | A.17.A.X1.3  | I |
| 9-13 | PRS-RSRP measurement delay TC for case 2 when eDRX > 10.24s in RRC\_INACTIVE state for normal UE in FR2 | A.7.8.X | I | **Huawei** |
| 9-14 | PRS-RSRP measurement delay TC for case 2 when eDRX > 10.24s in RRC\_INACTIVE state for RedCap UE in FR2 | A.17.A.X2.3  | I |
| 9-15 | PRS-RSRPP measurement delay TC for case 2 when eDRX > 10.24s in RRC\_INACTIVE state for normal UE in FR2 | A.7.8.X | II | **Qualcomm** |
| 9-16 | PRS-RSRPP measurement delay TC for case 2 when eDRX > 10.24s in RRC\_INACTIVE state for RedCap UE in FR2 | A.17.A.X3.3  | II |
| 9-17 | Test case for RRM measurement (cell reselection) in FR1 when eDRX cycle > 10.24s for normal UE | A.6.8.X | I | **Huawei** |
| 9-18 | Test case for RRM measurement (cell reselection) in FR2 when eDRX cycle > 10.24s for RedCap UE | A.17.2.X.1 | II |
| 9-19 | Test case for RRM measurement (cell reselection) in FR2 when eDRX cycle > 10.24s for normal UE | A.7.8.X | I |
| 9-20 | Test case for RRM measurement (cell reselection) in FR1 when eDRX cycle > 10.24s for RedCap UE | A.16.2.X.1 | II |

# DraftCRs for RRC\_IDLE mode test cases

**Table 8. Work split for measurement delay test cases.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Set** | **Test case** | **Impacted clause in 38.133** | **Phase** | **Volunteer company** |
| 10-1 | RSTD in RRC\_IDLE without eDRX in FR1: measurement delay TC | A.6.X.1 | II | **Vivo** |
| 10-2 | RSTD in RRC\_IDLE without eDRX in FR2: measurement delay TC  | A.7.X.1 | II | **Vivo** |
| 10-3 | RSTD in RRC\_IDLE with eDRX > 10.24s in FR1: measurement delay TC | A.6.X.2 | II | **Ericsson** |
| 10-4 | RSTD in RRC\_IDLE with eDRX > 10.24s in FR2: measurement delay TC  | A.7.X.2 | II | **[Qualcomm]** |
| 10-5 | RSTD (PRS aggregation) in RRC\_IDLE in FR1: measurement delay TC | A.6.X.2 | II | **[CATT]** |
| 10-6 | RSTD (PRS aggregation) in RRC\_IDLE in FR2: measurement delay TC | A.7.X.3 | II | **[CATT]** |
| 10-7 | RSTD without RX FH without eDRX in RRC\_IDLE in FR1: measurement delay TC | A.16.C.X.1 | II | **[MediaTek]** |
| 10-8 | RSTD without RX FH without eDRX in RRC\_IDLE in FR2: measurement delay TC  | A.17.C.X.1 | II | **[MediaTek]** |
| 10-9 | RSTD without RX FH with eDRX > 10.24s in RRC\_IDLE in FR1: measurement delay TC | A.16.C.X.2 | II | **Ericsson** |
| 10-10 | RSTD without RX FH with eDRX > 10.24s in RRC\_IDLE in FR2: measurement delay TC  | A.17.C.X.2 | II | **[Qualcomm]** |
| 10-11 | RSRP in RRC\_IDLE without eDRX in FR1: measurement delay TC | A.6.X.4 | II | **Ericsson** |
| 10-12 | RSRP in RRC\_IDLE without eDRX in FR2: measurement delay TC  | A.7.X.4 | II | **Ericsson** |
| 10-13 | RSRP in RRC\_IDLE with eDRX > 10.24s in FR1: measurement delay TC | A.6.X.5 | II | **[Huawei]** |
| 10-14 | RSRP in RRC\_IDLE with eDRX > 10.24s in FR2: measurement delay TC  | A.7.X.5 | II | **[Huawei]** |
| 10-15 | RSRP without RX FH in RRC\_IDLE in FR1: measurement delay TC | A.16.C.X.3 | II | **[Nokia]** |
| 10-16 | RSRP without RX FH in RRC\_IDLE in FR2: measurement delay TC  | A.17.C.X.3 | II | **[Nokia]** |
| 10-17 | RSRP without RX FH in RRC\_IDLE with eDRX > 10.24s in FR1: measurement delay TC | A.16.C.X.4 | II | **[OPPO]** |
| 10-18 | RSRP without RX FH in RRC\_IDLE with eDRX > 10.24s in FR2: measurement delay TC  | A.17.C.X.4 | II | **[Huawei]** |
| 10-19 | RSTD with RSCPD in RRC\_IDLE in FR1 | A.6.X.6 | II | **[Xiaomi]** |
| 10-20 | RSTD with RSCPD in RRC\_IDLE in FR2 | A.7.X.6 | II | **[Xiaomi]** |

**Table 9. Work split for measurement accuracy test cases.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Set** | **Test case** | **Impacted clause in 38.133** | **Phase** | **Volunteer company** |
| 11-1 | RSTD in RRC\_IDLE without eDRX in FR1: measurement accuracy TC | A.6.X1.1 | II | **[Vivo]** |
| 11-2 | RSTD in RRC\_IDLE without eDRX in FR2: measurement accuracy TC  | A.7.X1.1 | II | **[Vivo]** |
| 11-3 | RSTD in RRC\_IDLE with eDRX > 10.24s in FR1: measurement accuracy TC | A.6.X1.2 | II | **Ericsson** |
| 11-4 | RSTD in RRC\_IDLE with eDRX > 10.24s in FR2: measurement accuracy TC  | A.7.X1.2 | II | **[Qualcomm]** |
| 11-5 | RSTD (PRS aggregation) in RRC\_IDLE in FR1: measurement accuracy TC | A.6.X1.3 | II | **[CATT]** |
| 11-6 | RSTD (PRS aggregation) in RRC\_IDLE in FR2: measurement accuracy TC | A.7.X1.3 | II | **[CATT]** |
| 11-7 | RSTD without RX FH without eDRX in RRC\_IDLE in FR1: measurement accuracy TC | A.16.X1.1 | II | **[MediaTek]** |
| 11-8 | RSTD without RX FH without eDRX in RRC\_IDLE in FR2: measurement accuracy TC  | A.17.X1.1 | II | **[MediaTek]** |
| 11-9 | RSTD without RX FH with eDRX > 10.24s in RRC\_IDLE in FR1: measurement accuracy TC | A.16.X1.2 | II | **Ericsson** |
| 11-10 | RSTD without RX FH with eDRX > 10.24s in RRC\_IDLE in FR2: measurement accuracy TC  | A.17.X1.2 | II | **[Qualcomm]** |
| 11-11 | RSRP in RRC\_IDLE without eDRX in FR1: measurement accuracy TC | A.6.X1.4 | II | **Ericsson** |
| 11-12 | RSRP in RRC\_IDLE without eDRX in FR2: measurement accuracy TC  | A.7.X1.4 | II | **Ericsson** |
| 11-13 | RSRP in RRC\_IDLE with eDRX > 10.24s in FR1: measurement accuracy TC | A.6.X1.5 | II | **[Huawei]** |
| 11-14 | RSRP in RRC\_IDLE with eDRX > 10.24s in FR2: measurement accuracy TC  | A.7.X1.5 | II | **[Huawei]** |
| 11-15 | RSRP without RX FH in RRC\_IDLE in FR1: measurement accuracy TC | A.16.X1.3 | II | **[Nokia]** |
| 11-16 | RSRP without RX FH in RRC\_IDLE in FR2: measurement accuracy TC  | A.17.X1.3 | II | **[Nokia]** |
| 11-17 | RSRP without RX FH in RRC\_IDLE with eDRX > 10.24s in FR1: measurement accuracy TC | A.16.X1.4 | II | **[OPPO]** |
| 11-18 | RSRP without RX FH in RRC\_IDLE with eDRX > 10.24s in FR2: measurement accuracy TC  | A.17.X1.4 | II | **[Huawei]** |
| 11-19 | RSTD with RSCPD in RRC\_IDLE in FR1 | A.6.X1.6 | II | **[Xiaomi]** |
| 11-20 | RSTD with RSCPD in RRC\_IDLE in FR2 | A.7.X1.6 | II | **[Xiaomi]** |

# References

1. R4-2420xxxx, Ad-hoc minute on NR positioning, Ericsson.
2. R4-2409586 Updated work split on test cases for RedCap positioning, Ericsson.