**实验室二期计划购置设备技术要求**

## 5G一致性实验室技术要求

### 1.1测试标准

满足以下标准

|  |  |  |
| --- | --- | --- |
| 标准号 | 标准名称 | 通信制式 |
| 3GPP TS 38.521-1 | User Equipment (UE) conformance specification ; Radio transmision and reception ; Part 1: Range 1 Standalone; | 5G R15 |
| 3GPP TS 38.521-3 | User Equipment (UE) conformance specification ; Radio transmision and reception ; Part 3: Range 1 and Range 2 Interworking operation with other radios; | 5G R15 |
| 3GPP TS 38.521-4 | User Equipment (UE) conformance specification; Radio transmission and reception; Part 4: Performance | 5G R15 |
| 3GPP TS 38.523-1 | User Equipment (UE) conformance specification; Part 1: Protocol | 5G R15,R16 |
| 3GPP TS 38.533 | User Equipment (UE) conformance specification; Radio Resource Management (RRM) | 5G R15 |
| 3GPP TS 34.229-5 | User Equipment (UE) conformance specification; Part 5: Protocol conformance specification using 5G System (5GS) | 5G R15,R16 |

### 1.2频段要求

射频及RRM测试用例应至少支持5G如下频段：

★SA频段：n1, n2, n3, n5, n8, n28, n41, n71, n77, n78, n79、n20 n25 n38 n40 n66 n26 n48

### 1.3系统组成及功能要求

1.3.1系统功能要求：

1）在GCF/PTCRB为正式认证平台；涵盖的标准包括3GPP TS 38.521-1，3GPP TS 38.521-3，3GPP TS 38.521-4，3GPP TS 38.523-1，3GPP TS 38.533

★2）系统支持5G NR NSA/SA FR1频段射频一致性含RRM测试要求，及R17 redcap射频，RRM，Dem的一致性测试要求，涵盖标准3GPP TS 38.521-1，3GPP TS 38.521-3 ，3GPP TS 38.521-4，3GPP TS 38.533；可升级R16,R17，R18及NTN的升级。可升级支持PCT即协议一致性测试能力。

★3）含独立的协议一致性测试系统，支持3GPP TS 38.523-1标准及3GPP TS 34.229-5标准，基础软件包含协议测试核心软件，R15,R16功能软件，以及支持5G R15 NSA，SA测试用例，R16测试用例，支持IMS如VONR等测试用例；可升级支持RCT即射频一致性测试能力，可升级4G LTE 协议一致性测试能力。

★4）满足基础的3GPP标准测试用例外，还需支持FR1 SA UL MIMO（且FDD，TDD频段均需支持，用例要求通过GCF/PTCRB认证）；

5）包含原有射频RF一致性系统一年维保服务，包括最新用例的使用，以及综测仪的一年保修等内容。

★6）配置无线协议分析软件，支持IQ数据抓取及分析功能。

①支持单流到4流的综测仪的采集IQ码流文件或终端\基站的调试IQ码流，匹配3gpp的采样率后可以分析

②对综测仪采集的双向IQ信号分析，支持根据配置的5G小区基本频点设置，解析出相关的公共信道的消息，盲检SIB，MIB的内容及调度参数

③对综测仪采集的双向IQ信号分析，支持根据配置的5G小区基本频点设置，可以做信号的物理层参数分析，分析多帧信号的时域功率，频谱图，星座图等

④对综测仪采集的双向IQ信号分析，支持根据配置的小区配置广播消息及RRC 配置消息码流，输出时域+频域的用户下行、上行资源调度图，可缩放至RB级别查看相应传输块的功率状态。

⑤对综测仪采集的双向IQ信号分析，提供物理层和协议层的双向关联性分析，支持用户选中任意类型的上层控制面消息或信道类型，自动同步显示对应调度占用的时域功率状态或频域的传输块位置信息，也可以画选物理层的时域载波，自动显示对应的消息。

⑥采集小区信号时，支持3GPP 5G NR Rel15协议的多个子版本译码，可提供Rel16及Rel17,Redcap 新版本协议分析的升级能力选件。

7）支持自动化测试，并提供测试日志和测试报告的管理方案，提供协议层和物理层日志的分析工具

1.3.2系统硬件组成及要求：

1.3.2.1协议一致性综测仪

1、频率范围：至少覆盖380MHz~6GHz；

2、仪器端口最大输入功率不小于34dBm（平均功率）， 最大功率不小于42dBm；端口输出最大功率不小于 7dBm，功率精度优于+/- 0.52dB。噪声谱密度：<-150 dBm/Hz；

★3、收发端口全频段驻波比<1.8； 其中4GHz以内<1.5；

★4、接收机幅度精度（典型值）：功率精度优于+/- 0.8dB（30dBm输入时），功率精度优于+/- 0.4dB（5dBm输入时）平坦度： 优于±0.38dB；发射机：幅度精度：优于 ± 0.7dB（-110dB~7 dBm输出时）；平坦度： 优于±0.45dB(+/- 0.52dB)；宽带噪声：不大于–130dBm/Hz；

5、全频段相位噪声：≤-100 dBc @100kHz频偏， ≤-110 dBc @300KHz频偏；

6、5G EVM 性能 (-20 dBm channel power, 64 QAM, 1 CC 100 MHz)：小于1%（名义值）；

谐波抑制：>30 dBc 全频段，4~6GHz可> 45 dBc；三次谐波抑制>40 dBc 全频段，4~6GHz可> 55 dBc；

7、射频双工端口数：≥8个， 可用于支持MIMO。

8、最大带宽不小于800MHz

9、可升级支持毫米波频段

### 1.4测试用例

### 1.4.1 RRM即3GPP TS 38.533标准测试用例

需包括但不仅限于如下用例，且测试用例已通过GCF/PTCRB认证；

|  |  |  |  |
| --- | --- | --- | --- |
| Test Specification测试标准 | Test Case用例编号 | Title名称 | 　名称 |
| 3GPP TS 38.533 | 6.3.2.1.1 | NR SA FR1 RRC re-establishment | NR SA FR1 RRC重建 |
| 3GPP TS 38.533 | 6.3.2.1.2 | NR SA FR1 - FR1 RRC re-establishment | NR SA FR1 - FR1 RRC重建 |
| 3GPP TS 38.533 | 6.3.2.1.3 | NR SA FR1 - FR1 RRC re-establishment without serving cell timing | NR SA FR1 - FR1 RRC重建不服务小区定时 |
| 3GPP TS 38.533 | 6.3.2.3.1 | NR SA FR1 RRC connection release with redirection | NR SA FR1 RRC连接重定向释放 |
| 3GPP TS 38.533 | 6.5.1.5 | NR SA FR1 radio link monitoring out-of-sync test for PCell configured with CSI-RS-based RLM RS in non-DRX mode | 非drx模式下配置基于csi -RS的RLM RS的PCell的NR SA FR1无线电链路监测不同步测试 |
| 3GPP TS 38.533 | 6.5.1.6 | NR SA FR1 radio link monitoring in-sync test for PCell configured with CSI-RS-based RLM RS in non-DRX mode | 非drx模式下配置基于csi -RS的RLM RS的PCell的NR SA FR1无线电链路监测同步测试 |
| 3GPP TS 38.533 | 6.5.1.7 | NR SA FR1 radio link monitoring out-of-sync test for PCell configured with CSI-RS-based RLM RS in DRX mode | 基于csi -RS的RLM RS配置为DRX模式的PCell的NR SA FR1无线电链路监测不同步测试 |
| 3GPP TS 38.533 | 6.5.1.8 | NR SA FR1 radio link monitoring in-sync test for PCell configured with CSI-RS-based RLM RS in DRX mode | 基于csi -RS的RLM RS配置为DRX模式的PCell的NR SA FR1无线电链路监测同步测试 |
| 3GPP TS 38.533 | 6.5.2.1 | NR SA FR1 interruptions during measurements on deactivated NR SCC | NR SA FR1在失活NR SCC测量期间中断 |
| 3GPP TS 38.533 | 6.5.3.1 | NR SA FR1 SCell activation and deactivation of known SCell in non-DRX for 160ms SCell measurement cycle | NR SA FR1在非drx中已知细胞的激活和失活160ms细胞测量周期 |
| 3GPP TS 38.533 | 6.5.3.2 | NR SA FR1 SCell activation and deactivation of known SCell in non-DRX for 320ms SCell measurement cycle | NR SA FR1已知细胞在非drx中激活和失活320ms细胞测量周期 |
| 3GPP TS 38.533 | 6.5.3.3 | NR SA FR1 SCell activation and deactivation of unknown SCell in non-DRX | NR SA FR1非drx中未知细胞的激活和失活 |
| 3GPP TS 38.533 | 6.5.5.3 | NR SA FR1 CSI-RS-based beam failure detection and link recovery in non-DRX | NR SA FR1基于csi - rs的非drx波束故障检测与链路恢复 |
| 3GPP TS 38.533 | 6.5.5.4 | NR SA FR1 CSI-RS-based beam failure detection and link recovery in DRX | 基于cssi - rs的DRX波束故障检测与链路恢复 |
| 3GPP TS 38.533 | 6.5.6.1.1 | SA FR1-FR1 DCI-based DL active BWP switch in non-DRX | SA FR1-FR1非drx中基于dci的DL主BWP开关 |
| 3GPP TS 38.533 | 6.5.6.1.2 | SA FR1 DCI-based DL active BWP switch in non-DRX | SA FR1非drx中基于dci的DL主BWP开关 |
| 3GPP TS 38.533 | 6.6.4.1 | NR SA FR1 SSB-based L1-RSRP measurement in non-DRX | 非drx中NR SA FR1基于ssb的L1-RSRP测量 |
| 3GPP TS 38.533 | 6.6.4.2 | NR SA FR1 SSB-based L1-RSRP measurement in DRX | DRX中基于NR SA FR1 ssb的L1-RSRP测量 |
| 3GPP TS 38.533 | 6.6.4.3 | NR SA FR1 CSI-RS-based L1-RSRP measurement in non-DRX | 非drx中基于csi - rs的L1-RSRP测量 |
| 3GPP TS 38.533 | 6.6.4.4 | NR SA FR1 CSI-RS-based L1-RSRP measurement in DRX | 基于csi - rs的DRX L1-RSRP测量 |
| 3GPP TS 38.533 | 6.7.2.2.1 | NR SA FR1-FR1 SS-RSRQ absolute measurement accuracy | NR SA FR1-FR1 SS-RSRQ绝对测量精度 |
| 3GPP TS 38.533 | 6.7.2.2.2 | NR SA FR1-FR1 SS-RSRQ relative measurement accuracy | NR SA FR1-FR1 - SS-RSRQ相对测量精度 |
| 3GPP TS 38.533 | 6.7.3.2.1 | NR SA FR1-FR1 SS-SINR absolute measurement accuracy | NR SA FR1-FR1 - SS-SINR绝对测量精度 |
| 3GPP TS 38.533 | 6.7.3.2.2 | NR SA FR1-FR1 SS-SINR relative measurement accuracy | NR SA FR1-FR1 SS-SINR相对测量精度 |
| 3GPP TS 38.533 | 6.7.4.1.1 | NR SA FR1 SSB-based L1-RSRP absolute measurement accuracy | NR SA FR1基于ssb的L1-RSRP绝对测量精度 |
| 3GPP TS 38.533 | 6.7.4.1.2 | NR SA FR1 SSB-based L1-RSRP relative measurement accuracy | NR SA FR1基于ssb的L1-RSRP相对测量精度 |
| 3GPP TS 38.533 | 6.7.4.2.1 | NR SA FR1 CSI-RS-based L1-RSRP absolute measurement accuracy | 基于csi - rs的L1-RSRP绝对测量精度 |
| 3GPP TS 38.533 | 6.7.4.2.2 | NR SA FR1 CSI-RS-based L1-RSRP relative measurement accuracy | NR SA FR1基于csi - rs的L1-RSRP相对测量精度 |

#### 1.4.2 Redcap 射频，RRM等测试用例能力覆盖

需包括但不仅限于如下用例，且测试用例已通过GCF/PTCRB认证；

|  |  |  |  |
| --- | --- | --- | --- |
| Test Specification测试标准 | Test Case用例编号 | Title名称 | 　名称 |
| 3GPP TS 38.521-1 | 6.2.2\_RedCap | UE maximum output power reduction | UE 最大输出功率降低 |
| 3GPP TS 38.521-1 | 6.2.3\_RedCap | UE additional maximun output power reduction | UE 额外最大输出功率降低 |
| 3GPP TS 38.521-1 | 6.2.4\_RedCap | Configured transmitted power | 配置的传输功率 |
| 3GPP TS 38.521-1 | 6.2I.1 | Maximum output power for RedCap | RedCap 最大输出功率 |
| 3GPP TS 38.521-1 | 6.3.1\_RedCap | Minimum output power | 最小输出功率 |
| 3GPP TS 38.521-1 | 6.3.3.2\_RedCap | General ON/OFF time mask | 一般开/关时间掩码 |
| 3GPP TS 38.521-1 | 6.3.3.4\_RedCap | PRACH time mask | PRACH 时间掩码 |
| 3GPP TS 38.521-1 | 6.3.3.6\_RedCap | SRS time mask | SRS 时间掩码 |
| 3GPP TS 38.521-1 | 6.3.4.2\_RedCap | absolute Power tolerance | 绝对功率容差 |
| 3GPP TS 38.521-1 | 6.3.4.3\_RedCap | Power Control Relative power tolerance | 功率控制 相对功率容差 |
| 3GPP TS 38.521-1 | 6.3.4.4\_RedCap | aggregate Power tolerance | 总功率容差 |
| 3GPP TS 38.521-1 | 6.4.1\_RedCap | Frequency error | 频率误差 |
| 3GPP TS 38.521-1 | 6.4.2.1\_RedCap | Error vector magnitude | 误差矢量幅度 |
| 3GPP TS 38.521-1 | 6.4.2.2\_RedCap | Carrier leakage | 载波泄漏 |
| 3GPP TS 38.521-1 | 6.4.2.3\_RedCap | In-band emissions | 带内发射 |
| 3GPP TS 38.521-1 | 6.4.2.4\_RedCap | EVM equalizer spectrum flatness | EVM 均衡器频谱平坦度 |
| 3GPP TS 38.521-1 | 6.4.2.5\_RedCap | EVM equalizer spectrum flatness for Pi/2 BPSK | Pi/2 BPSK 的 EVM 均衡器频谱平坦度 |
| 3GPP TS 38.521-1 | 6.5.1\_RedCap | Occupied bandwidth | 占用带宽 |
| 3GPP TS 38.521-1 | 6.5.2.2\_RedCap | Spectrum emission mask | 频谱发射掩码 |
| 3GPP TS 38.521-1 | 6.5.2.3\_RedCap | Additional spectrum emission mask | 附加频谱发射掩码 |
| 3GPP TS 38.521-1 | 6.5.2.4.1\_RedCap | NR ACLR | NR ACLR |
| 3GPP TS 38.521-1 | 6.5.2.4.2\_RedCap | UTRA ACLR for RedCap | 用于 RedCap 的 UTRA ACLR |
| 3GPP TS 38.521-1 | 6.5.3.1\_RedCap | General spurious emissions | 一般杂散发射 |
| 3GPP TS 38.521-1 | 6.5.3.2\_RedCap | Spurious emissions for UE co-existence | UE 共存的杂散发射 |
| 3GPP TS 38.521-1 | 6.5.3.3\_RedCap | Additional spurious emissions | 附加杂散发射 |
| 3GPP TS 38.521-1 | 6.5.4\_RedCap | Transmit intermodulation | 传输互调 |
| 3GPP TS 38.521-1 | 7.3I.2 | Reference sensitivity power level for RedCap | RedCap 的参考灵敏度功率电平 |
| 3GPP TS 38.521-1 | 7.4\_RedCap | Maximum input level | 最大输入电平 |
| 3GPP TS 38.521-1 | 7.5\_RedCap | Adjacent channel selectivity | 相邻信道选择性 |
| 3GPP TS 38.521-1 | 7.6.2\_RedCap | Inband blocking | 带内阻塞 |
| 3GPP TS 38.521-1 | 7.6.3\_RedCap | Out-of-band blocking | 带外阻塞 |
| 3GPP TS 38.521-1 | 7.6.4\_RedCap | Narrow band blocking | 窄带阻塞 |
| 3GPP TS 38.521-1 | 7.7\_RedCap | Spurious response | 杂散响应 |
| 3GPP TS 38.521-1 | 7.8.2\_RedCap | Wide band Intermodulation | 宽带互调 |
| 3GPP TS 38.521-1 | 7.9\_RedCap | spurious emission | 杂散发射 |
| 3GPP TS 38.521-4 | 5.2.1.1.1 | 1Rx FDD FR1 PDSCH performance for RedCap | RedCap 的 1Rx FDD FR1 PDSCH 性能 |
| 3GPP TS 38.521-4 | 5.2.1.2.1 | 1Rx TDD FR1 PDSCH performance for RedCap | RedCap 的 1Rx TDD FR1 PDSCH 性能 |
| 3GPP TS 38.521-4 | 5.2.2.1.17 | 2Rx FDD FR1 PDSCH performance for RedCap | RedCap 的 2Rx FDD FR1 PDSCH 性能 |
| 3GPP TS 38.521-4 | 5.2.2.2.18 | 2Rx TDD FR1 PDSCH performance for RedCap | RedCap 的 2Rx TDD FR1 PDSCH 性能 |
| 3GPP TS 38.521-4 | 5.3.1.1.1 | 1Rx FDD FR1 PDCCH performance for RedCap | RedCap 的 1Rx FDD FR1 PDCCH 性能 |
| 3GPP TS 38.521-4 | 5.3.1.2.1 | 1Rx TDD FR1 PDCCH performance for RedCap | RedCap 的 1Rx TDD FR1 PDCCH 性能 |
| 3GPP TS 38.521-4 | 5.3.2.1.4 | 2Rx FDD FR1 PDCCH performance for RedCap | 2Rx FDD FR1 PDCCH 性能（RedCap |
| 3GPP TS 38.521-4 | 5.3.2.2.4 | 2Rx TDD FR1 PDCCH performance for RedCap | 2Rx TDD FR1 PDCCH 性能（RedCap |
| 3GPP TS 38.521-4 | 6.2.1.1.1.1 | 1Rx FDD FR1 periodic CQI reporting under AWGN conditions for RedCap | RedCap 1Rx FDD FR1 AWGN 条件下的定期 CQI 报告 |
| 3GPP TS 38.521-4 | 6.2.1.1.2.1 | 1Rx FDD FR1 periodic wideband CQI reporting under fading conditions for RedCap | 1Rx FDD FR1 在 RedCap 的衰减条件下周期性报告宽带 CQI |
| 3GPP TS 38.521-4 | 6.2.1.2.1.1 | 1Rx TDD FR1 periodic CQI reporting under AWGN conditions for RedCap | 1Rx TDD FR1 为 RedCap 提供 AWGN 条件下的周期性 CQI 报告 |
| 3GPP TS 38.521-4 | 6.2.1.2.2.1 | 1Rx TDD FR1 periodic wideband CQI reporting under fading conditions for RedCap | 1Rx TDD FR1 在 RedCap 的衰减条件下定期报告宽带 CQI |
| 3GPP TS 38.521-4 | 6.2.2.1.1.4 | 2Rx FDD FR1 periodic CQI reporting under AWGN conditions for RedCap | 2Rx FDD FR1 为 RedCap 提供 AWGN 条件下的定期 CQI 报告 |
| 3GPP TS 38.521-4 | 6.2.2.1.2.4 | 2Rx FDD FR1 periodic wideband CQI reporting under fading conditions for RedCap | 2Rx FDD FR1 在 RedCap 的衰减条件下定期报告宽带 CQI |
| 3GPP TS 38.521-4 | 6.2.2.2.1.5 | 2Rx TDD FR1 periodic CQI reporting under AWGN conditions for RedCap | 2Rx TDD FR1 为 RedCap 提供 AWGN 条件下的周期性 CQI 报告 |
| 3GPP TS 38.521-4 | 6.2.2.2.2.4 | 2Rx TDD FR1 periodic wideband CQI reporting under fading conditions for RedCap | 2Rx TDD FR1 在 RedCap 的衰减条件下定期报告宽带 CQI |
| 3GPP TS 38.521-4 | 6.4.2.1.1 | 2Rx FDD FR1 RI reporting for RedCap | 用于 RedCap 的 2Rx FDD FR1 RI 报告 |
| 3GPP TS 38.521-4 | 6.4.2.2.1 | 2Rx TDD FR1 RI reporting for RedCap | 2Rx TDD FR1 为 RedCap 报告 RI |
| 3GPP TS 38.533 | 16.1.1.1 | NR SA FR1 Cell reselection to FR1 intra-frequency NR case for 1 Rx UE | NR SA FR1 小区重选至 FR1 频内 NR 情况下的 1 Rx UE |
| 3GPP TS 38.533 | 16.1.1.2 | NR SA FR1 Cell reselection to FR1 intra-frequency NR case for 2 Rx UE | NR SA FR1 小区重选至 FR1 频内 NR 情况下的 2 Rx UE |
| 3GPP TS 38.533 | 16.1.1.3 | NR SA FR1-FR1 Cell reselection to FR1 inter-frequency NR case for 1 Rx UE | NR SA FR1-FR1 1 Rx UE 的小区重选至 FR1 频内 NR 情况 |
| 3GPP TS 38.533 | 16.1.1.4 | NR SA FR1-FR1 Cell reselection to FR1 inter-frequency NR case for 2 Rx UE | NR SA FR1-FR1 2 Rx UE 的 FR1 频间 NR 情况下的小区重选 |
| 3GPP TS 38.533 | 16.1.1.5 | NR SA FR1 Cell reselection to FR1 intra-frequency NR case for UE fulfilling stationary relaxed measurement criterion for 1 Rx UE | NR SA FR1 小区重选至 FR1 频内 NR 情况下，UE 满足 1 Rx UE 的静止宽松测量标准 |
| 3GPP TS 38.533 | 16.1.1.6 | NR SA FR1 Cell reselection to FR1 intra-frequency NR case for UE fulfilling stationary relaxed measurement criterion for 2 Rx UE | NR SA FR1 小区重选至 FR1 频内 NR 情况下，UE 满足 2 Rx UE 的静态宽松测量标准 |
| 3GPP TS 38.533 | 16.1.1.7 | NR SA FR1-FR1 Cell reselection to FR1 inter-frequency NR case for UE fulfilling stationary relaxed measurement criterion for 1 Rx UE | NR SA FR1-FR1 小区重选至 FR1 频间 NR 情况下，UE 满足 1 Rx UE 的静态宽松测量标准 |
| 3GPP TS 38.533 | 16.1.1.8 | NR SA FR1-FR1 Cell reselection to FR1 inter-frequency NR case for UE fulfilling stationary relaxed measurement criterion for 2 Rx UE | NR SA FR1-FR1 小区重选至 FR1 频间 NR 情况下，UE 满足 2 Rx UE 的静态宽松测量标准 |
| 3GPP TS 38.533 | 16.1.2.1 | NR SA FR1 - E-UTRA Cell reselection to higher priority E-UTRA for 1RX | NR SA FR1 - E-UTRA 1RX 的小区重选至优先级更高的 E-UTRA |
| 3GPP TS 38.533 | 16.1.2.2 | NR SA FR1 - E-UTRA Cell reselection to higher priority E-UTRA for 2RX | NR SA FR1 - E-UTRA 小区重选至优先级更高的 E-UTRA |
| 3GPP TS 38.533 | 16.1.2.5 | NR SA FR1 - E-UTRA Cell reselection to lower priority E-UTRA for UE fulfilling stationary relaxed measurement criterion for 1 Rx UE | NR SA FR1 - E-UTRA 对于满足 1 个 Rx UE 固定宽松测量标准的 UE，小区重选至较低优先级 E-UTRA |
| 3GPP TS 38.533 | 16.1.2.6 | NR SA FR1 - E-UTRA Cell reselection to lower priority E-UTRA for UE fulfilling stationary relaxed measurement criterion for 2 Rx UE | NR SA FR1 - E-UTRA 对于满足 2 Rx UE 固定宽松测量标准的 UE，小区重选至较低优先级 E-UTRA |
| 3GPP TS 38.533 | 16.3.1.1 | NR SA FR1 Intra-frequency handover from FR1 to FR1 with known target cell for 1 Rx UE | NR SA FR1 1 Rx UE 在已知目标小区的情况下从 FR1 向 FR1 进行频内切换 |
| 3GPP TS 38.533 | 16.3.1.10 | NR - E-UTRA handover with unknown target cell for 2 Rx UE  | NR - E-UTRA 切换，目标小区未知，2 Rx UE  |
| 3GPP TS 38.533 | 16.3.1.2 | NR SA FR1 Intra-frequency handover from FR1 to FR1 with known target cell for 2 Rx UE | NR SA FR1 从 FR1 到 FR1 的频率内切换，2 个 Rx UE 的已知目标小区 |
| 3GPP TS 38.533 | 16.3.1.3 | NR SA FR1 Intra-frequency handover from FR1 to FR1 with unknown target cell for 1 Rx UE | NR SA FR1 从 FR1 到 FR1 的同频切换，目标小区未知，1 个接收 UE |
| 3GPP TS 38.533 | 16.3.1.4 | NR SA FR1 Intra-frequency handover from FR1 to FR1 with unknown target cell for 2 Rx UE | NR SA FR1 FR1 至 FR1 的同频切换，目标小区未知，2 个 Rx UE |
| 3GPP TS 38.533 | 16.3.1.5 | NR SA FR1-FR1 Inter-frequency handover from FR1 to FR1 with unknown target cell for 1 Rx UE | NR SA FR1-FR1 从 FR1 到 FR1 的频内切换，目标小区未知，适用于 1 个 Rx UE |
| 3GPP TS 38.533 | 16.3.1.6 | NR SA FR1-FR1 Inter-frequency handover from FR1 to FR1 with unknown target cell for 2 Rx UE | NR SA FR1-FR1 从 FR1 到 FR1 的频间交 换，目标小区未知，2 个 Rx UE |
| 3GPP TS 38.533 | 16.3.1.7 | NR - E-UTRA handover for 1Rx UE | NR - 1Rx UE 的 E-UTRA 切换 |
| 3GPP TS 38.533 | 16.3.1.8 | NR - E-UTRA handover for 2Rx UE | NR - 2Rx UE 的 E-UTRA 切换 |
| 3GPP TS 38.533 | 16.3.1.9 | NR - E-UTRA handover with unknown target cell for 1 Rx UE  | NR - E-UTRA 移交，目标小区未知，适用于 1Rx UE  |
| 3GPP TS 38.533 | 16.3.2.1.1 | NR SA FR1 Intra-frequency RRC Re-establishment in FR1 for 1 Rx UE | NR SA FR1 在 FR1 中为 1Rx UE 进行频率内 RRC 重建 |
| 3GPP TS 38.533 | 16.3.2.1.2 | NR SA FR1 Intra-frequency RRC Re-establishment in FR1 for 2 Rx UE | NR SA FR1 在 FR1 中为 2 个 Rx UE 进行频内 RRC 重建 |
| 3GPP TS 38.533 | 16.3.2.1.3 | NR SA FR1-FR1 Inter-frequency RRC Re-establishment in FR1 for 1 Rx UE  | NR SA FR1-FR1 在 FR1 中为 1 个 Rx UE 进行频间 RRC 重建  |
| 3GPP TS 38.533 | 16.3.2.1.4 | NR SA FR1-FR1 Inter-frequency RRC Re-establishment in FR1 for 2 Rx UE | NR SA FR1-FR1 在 FR1 中为 2 个接收 UE 进行频间 RRC 重建 |
| 3GPP TS 38.533 | 16.3.2.1.5 | NR SA FR1 Intra-frequency RRC Re-establishment in FR1 for 1 Rx UE without serving cell timing | NR SA FR1 1 Rx UE 在 FR1 中的频内 RRC 重建，无服务小区定时 |
| 3GPP TS 38.533 | 16.3.2.1.6 | NR SA FR1 Intra-frequency RRC Re-establishment in FR1 for 2 Rx UE without serving cell timing | NR SA FR1 在 FR1 中为 2 个 Rx UE 进行频率内 RRC 重建，无服务小区定时 |
| 3GPP TS 38.533 | 16.3.2.2.1 | NR SA FR1 4-step RA type contention based random access test in FR1 for NR standalone for 1 Rx UE | NR SA FR1 在 FR1 中为 1 个 Rx UE 进行 NR 独立的基于争用的 4 步 RA 类型随机接入测试 |
| 3GPP TS 38.533 | 16.3.2.2.2 | NR SA FR1 4-step RA type contention based random access test in FR1 for NR standalone for 2 Rx UE | NR SA FR1 4 步 RA 型基于争用的随机接入测试，用于 2 Rx UE 的 NR 独立 FR1 |
| 3GPP TS 38.533 | 16.3.2.2.3 | NR SA FR1 4-step RA type non-contention based random access test in FR1 for NR standalone for 1 Rx UE | NR SA FR1 4 步 RA 类型基于非竞争的随机接入测试，适用于 1 Rx UE 的 NR 独立设备 FR1 |
| 3GPP TS 38.533 | 16.3.2.2.4 | NR SA FR1 4-step RA type non-contention based random access test in FR1 for NR standalone for 2 Rx UE | NR SA FR1 4 步 RA 型非基于保留的随机接入测试，用于 FR1 中的 NR 独立设备，2 个 Rx UE |
| 3GPP TS 38.533 | 16.3.2.3.1 | NR SA FR1-FR1 Redirection from NR in FR1 to NR in FR1 for 1 Rx UE | NR SA FR1-FR1 从 FR1 中的 NR 重定向到 FR1 中的 NR，用于 1 Rx UE |
| 3GPP TS 38.533 | 16.3.2.3.2 | NR SA FR1-FR1 Redirection from NR in FR1 to NR in FR1 for 2 Rx UE | NR SA FR1-FR1 从 FR1 中的 NR 重定向到 FR1 中的 NR，用于 2 Rx UE |
| 3GPP TS 38.533 | 16.3.2.3.3 | NR SA FR1-FR1 Redirection from NR in FR1 to E-UTRAN for 1 Rx UE | NR SA FR1-FR1 从 FR1 中的 NR 重定向至 E-UTRAN，用于 1 Rx UE |
| 3GPP TS 38.533 | 16.3.2.3.4 | NR SA FR1-FR1 Redirection from NR in FR1 to E-UTRAN for 2 Rx UE | NR SA FR1-FR1 从 FR1 中的 NR 重定向至 E-UTRAN，用于 2 Rx UE |
| 3GPP TS 38.533 | 16.4.1.1 | NR SA FR1 NR UE Transmit Timing Test for FR1 for 1Rx RedCap UE | NR SA FR1 NR UE 1Rx RedCap UE 的 FR1 发送定时测试 |
| 3GPP TS 38.533 | 16.4.1.2 | NR SA FR1 NR UE Transmit Timing Test for FR1 for 2Rx RedCap UE | NR SA FR1 NR UE 2Rx RedCap UE 的 FR1 发送时序测试 |
| 3GPP TS 38.533 | 16.4.3.1 | NR SA FR1 SA FR1 timing advance adjustment accuracy for 1 Rx UE | NR SA FR1 SA FR1 用于 1Rx UE 的定时提前调整精度 |
| 3GPP TS 38.533 | 16.4.3.2 | NR SA FR1 SA FR1 timing advance adjustment accuracy for 2 Rx UE | NR SA FR1 SA FR1 2Rx UE 的定时提前调整精度 |
| 3GPP TS 38.533 | 16.5.1.10 | NR SA FR1 Radio Link Monitoring Out-of-sync Test for FR1 PCell configured with CSI-RS-based RLM in non-DRX mode for 2 Rx UE | NR SA FR1 无线电链路监测失同步测试，针对在非DRX 模式下为 2 Rx UE 配置了基于 CSI-RS 的 RLM 的 FR1 PCell |
| 3GPP TS 38.533 | 16.5.1.11 | NR SA FR1 Radio Link Monitoring In-sync Test for FR1 PCell configured with CSI-RS-based RLM in non-DRX mode for 1 Rx UE | NR SA FR1 无线链路监测同步测试，针对在非DRX 模式下为 1 个 Rx UE 配置基于 CSI-RS 的 RLM 的 FR1 PCell |
| 3GPP TS 38.533 | 16.5.1.12 | NR SA FR1 Radio Link Monitoring In-sync Test for FR1 PCell configured with CSI-RS-based RLM in non-DRX mode for 2 Rx UE | NR SA FR1 PCell 在非 DRX 模式下为 2 个 Rx UE 配置基于 CSI-RS 的 RLM 时进行的无线电链路监测同步测试 |
| 3GPP TS 38.533 | 16.5.1.13 | NR SA FR1 Radio Link Monitoring Out-of-sync Test for FR1 PCell configured with CSI-RS-based RLM in DRX mode for 1 Rx UE | NR SA FR1 无线链路监测失同步测试，针对在 DRX 模式下为 1 个 Rx UE 配置基于 CSI-RS 的 RLM 的 FR1 PCell |
| 3GPP TS 38.533 | 16.5.1.14 | NR SA FR1 Radio Link Monitoring Out-of-sync Test for FR1 PCell configured with CSI-RS-based RLM in DRX mode for 2 Rx UE | NR SA FR1 在 DRX 模式下为 2 Rx UE 配置了基于 CSI-RS 的 RLM 的 FR1 PCell 的无线链路监测失同步测试 |
| 3GPP TS 38.533 | 16.5.1.15 | NR SA FR1 Radio Link Monitoring In-sync Test for FR1 PCell configured with CSI-RS-based RLM in DRX mode for 1 Rx UE | NR SA FR1 无线链路监测同步测试，用于在 DRX 模式下为 1 Rx UE 配置基于 CSI-RS 的 RLM 的 FR1 PCell。 |
| 3GPP TS 38.533 | 16.5.1.16 | NR SA FR1 Radio Link Monitoring In-sync Test for FR1 PCell configured with CSI-RS-based RLM in DRX mode for 2 Rx UE | NR SA FR1 无线链路监测同步测试，用于在 DRX 模式下为 2 个 Rx UE 配置基于 CSI-RS 的 RLM 的 FR1 PCell。 |
| 3GPP TS 38.533 | 16.5.1.2 | NR SA FR1 Radio Link Monitoring Out-of-sync Test for FR1 PCell configured with SSB-based RLM RS in non-DRX mode for 2 Rx UE | NR SA FR1 无线链路监测非同步测试，针对在非 DRX 模式下为 2 Rx UE 配置基于 SSB 的 RLM RS 的 FR1 PCell。 |
| 3GPP TS 38.533 | 16.5.1.3 | NR SA FR1 Radio Link Monitoring In-sync Test for FR1 PCell configured with SSB-based RLM RS in non-DRX mode for 1 Rx UE | NR SA FR1 无线链路监测同步测试，针对在非DRX 模式下为 1 个 Rx UE 配置了基于 SSB 的 RLM RS 的 FR1 PCell |
| 3GPP TS 38.533 | 16.5.1.4 | NR SA FR1 Radio Link Monitoring In-sync Test for FR1 PCell configured with SSB-based RLM RS in non-DRX mode for 2 Rx UE | NR SA FR1 无线链路监测同步测试，用于在非DRX 模式下为 2 个 Rx UE 配置基于 SSB 的 RLM RS 的 FR1 PCell。 |
| 3GPP TS 38.533 | 16.5.1.5 | NR SA FR1 Radio Link Monitoring Out-of-sync Test for FR1 PCell configured with SSB-based RLM RS in DRX mode for 1 Rx UE | NR SA FR1 在 DRX 模式下为 1 Rx UE 配置了基于 SSB 的 RLM RS 的 FR1 PCell 的无线电链路监测失同步测试 |
| 3GPP TS 38.533 | 16.5.1.6 | NR SA FR1 Radio Link Monitoring Out-of-sync Test for FR1 PCell configured with SSB-based RLM RS in DRX mode for 2 Rx UE | NR SA FR1 在 DRX 模式下为 2 Rx UE 配置了基于 SSB 的 RLM RS 的 FR1 PCell 的无线电链路监测失同步测试 |
| 3GPP TS 38.533 | 16.5.1.7 | NR SA FR1 Radio Link Monitoring In-sync Test for FR1 PCell configured with SSB-based RLM RS in DRX mode for 1 Rx UE | NR SA FR1 无线链路监测同步测试，用于在 DRX 模式下为 1 Rx UE 配置基于 SSB 的 RLM RS 的 FR1 PCell。 |
| 3GPP TS 38.533 | 16.5.1.8 | NR SA FR1 Radio Link Monitoring In-sync Test for FR1 PCell configured with SSB-based RLM RS in DRX mode for 2 Rx UE | NR SA FR1 无线链路监测同步测试，用于在 DRX 模式下为 2 个 Rx UE 配置基于 SSB 的 RLM RS 的 FR1 PCell。 |
| 3GPP TS 38.533 | 16.5.1.9 | NR SA FR1 Radio Link Monitoring Out-of-sync Test for FR1 PCell configured with CSI-RS-based RLM in non-DRX mode for 1 Rx UE | NR SA FR1 无线电链路监控失同步测试，针对在非DRX 模式下为 1 个 Rx UE 配置了基于 CSI-RS 的 RLM 的 FR1 PCell |
| 3GPP TS 38.533 | 16.5.2.1 | NR SA FR1 Beam Failure Detection and Link Recovery Test for FR1 PCell configured with SSB-based BFD and LR in non-DRX mode for 1 Rx UE | NR SA FR1 波束失效检测和链路恢复测试，用于在非DRX 模式下为 1 个 Rx UE 配置基于 SSB 的 BFD 和 LR 的 FR1 PCell |
| 3GPP TS 38.533 | 16.5.2.2 | NR SA FR1 Beam Failure Detection and Link Recovery Test for FR1 PCell configured with SSB-based BFD and LR in non-DRX mode for 2 Rx UE | NR SA FR1 波束失效检测和链路恢复测试，用于在非DRX 模式下为 2 个 Rx UE 配置基于 SSB 的 BFD 和 LR 的 FR1 PCell |
| 3GPP TS 38.533 | 16.5.2.3 | NR SA FR1 Beam Failure Detection and Link Recovery Test for FR1 PCell configured with SSB-based BFD and LR in DRX mode for 1 Rx UE | NR SA FR1 光束故障检测和链路恢复测试，用于在 DRX 模式下为 1 Rx UE 配置基于 SSB 的 BFD 和 LR 的 FR1 PCell |
| 3GPP TS 38.533 | 16.5.2.4 | NR SA FR1 Beam Failure Detection and Link Recovery Test for FR1 PCell configured with SSB-based BFD and LR in DRX mode for 2 Rx UE | NR SA FR1 波束失效检测和链路恢复测试，用于在 DRX 模式下为 2 个 Rx UE 配置基于 SSB 的 BFD 和 LR 的 FR1 PCell |
| 3GPP TS 38.533 | 16.5.2.5 | NR SA FR1 Beam Failure Detection and Link Recovery Test for FR1 PCell configured with CSI-RS-based BFD and LR in non-DRX mode for 1 Rx UE | NR SA FR1 波束失效检测和链路恢复测试，用于在非 DRX 模式下为 1 个 Rx UE 配置基于 CSI-RS 的 BFD 和 LR 的 FR1 PCell |
| 3GPP TS 38.533 | 16.5.2.6 | NR SA FR1 Beam Failure Detection and Link Recovery Test for FR1 PCell configured with CSI-RS-based BFD and LR in non-DRX mode for 2 Rx UE | NR SA FR1 光束故障检测和链路恢复测试，针对在非DRX 模式下为 2 个 Rx UE 配置了基于 CSI-RS 的 BFD 和 LR 的 FR1 PCell |
| 3GPP TS 38.533 | 16.5.2.7 | NR SA FR1 Beam Failure Detection and Link Recovery Test for FR1 PCell configured with CSI-RS-based BFD and LR in DRX mode for 1 Rx UE | NR SA FR1 光束故障检测和链路恢复测试，用于在 DRX 模式下为 1 个 Rx UE 配置基于 CSI-RS 的 BFD 和 LR 的 FR1 PCell |
| 3GPP TS 38.533 | 16.5.2.8 | NR SA FR1 Beam Failure Detection and Link Recovery Test for FR1 PCell configured with CSI-RS-based BFD and LR in DRX mode for 2 Rx UE | NR SA FR1 光束故障检测和链路恢复测试，针对 FR1 PCell 配置了基于 CSI-RS 的 BFD 和 DRX 模式下的 LR，用于 2 个 Rx UE。 |
| 3GPP TS 38.533 | 16.5.3.1.1 | NR SA FR1 NR SA FR1 DL active BWP switch with non-DRX in SA for 1 Rx UE | NR SA FR1 NR SA FR1 DL 活动 BWP 交换，SA 中为 1 Rx UE 配置非 DRX |
| 3GPP TS 38.533 | 16.5.3.1.2 | NR SA FR1 NR SA FR1 DL active BWP switch with non-DRX in SA for 2 Rx UE | NR SA FR1 NR SA FR1 DL 有源 BWP 交换机，SA 中有 2 个 Rx UE 的非DRX |
| 3GPP TS 38.533 | 16.5.3.2.1 | NR SA FR1 NR SA FR1 DL active BWP switch of Cell with non-DRX in SA for 1 Rx UE | NR SA FR1 NR SA FR1 DL 小区的活动 BWP 开关，SA 中为 1 Rx UE 的非DRX |
| 3GPP TS 38.533 | 16.5.3.2.2 | NR SA FR1 NR SA FR1 DL active BWP switch of Cell with non-DRX in SA for 2 Rx UE | NR SA FR1 NR SA FR1 2 Rx UE 的 SA 中有非DRX 的小区的 DL 活动 BWP 切换 |
| 3GPP TS 38.533 | 16.6.1.10 | NR SA FR1 Event triggered reporting tests without gap under non-DRX with SSB index reading for 2 Rx UE | NR SA FR1 事件触发报告测试，在 2 Rx UE 的 SSB 指数读取非DRX 下无间隙 |
| 3GPP TS 38.533 | 16.6.1.11 | NR SA FR1 Event triggered reporting tests with per-UE gaps under non-DRX with SSB index reading for 1 Rx UE | NR SA FR1 事件触发报告测试，非DRX 下有每个 UE 间隙，读取 1 个 Rx UE 的 SSB 索引 |
| 3GPP TS 38.533 | 16.6.1.12 | NR SA FR1 Event triggered reporting tests with per-UE gaps under non-DRX with SSB index reading for 2 Rx UE | NR SA FR1 事件触发报告测试，非DRX 下每个 UE 间隙，SSB 指数读数为 2 Rx UE |
| 3GPP TS 38.533 | 16.6.1.2 | NR SA FR1 Event triggered reporting tests without gap under non-DRX for 2 Rx UE | NR SA FR1 事件触发报告测试，在 2 Rx UE 的非DRX 下无间隙 |
| 3GPP TS 38.533 | 16.6.1.3 | NR SA FR1 Event triggered reporting tests without gap under DRX for 1 Rx UE | NR SA FR1 事件触发报告测试，1 Rx UE 在 DRX 下无间隙 |
| 3GPP TS 38.533 | 16.6.1.4 | NR SA FR1 Event triggered reporting tests without gap under DRX for 2 Rx UE | NR SA FR1 事件触发报告测试，2 Rx UE DRX 下无间隙 |
| 3GPP TS 38.533 | 16.6.1.5 | NR SA FR1 Event triggered reporting tests with per-UE gaps under non-DRX for 1 Rx UE | NR SA FR1 事件触发报告测试，在 1 Rx UE 的非 DRX 下有每个 UE 的间隙 |
| 3GPP TS 38.533 | 16.6.1.6 | NR SA FR1 Event triggered reporting tests with per-UE gaps under non-DRX for 2 Rx UE | NR SA FR1 事件触发报告测试，在 2 个 Rx UE 的非 DRX 下存在每个UE 间隙 |
| 3GPP TS 38.533 | 16.6.1.7 | NR SA FR1 Event triggered reporting tests with per-UE gaps under DRX for 1 Rx UE | NR SA FR1 事件触发报告测试，1 个 Rx UE DRX 下的每个UE 间隙 |
| 3GPP TS 38.533 | 16.6.1.8 | NR SA FR1 Event triggered reporting tests with per-UE gaps under DRX for 2 Rx UE | NR SA FR1 事件触发报告测试，在 DRX 下为 2 个 Rx UE 设置每个UE 间隙 |
| 3GPP TS 38.533 | 16.6.2.1 | NR SA FR1-FR1 Event triggered reporting tests for FR1 without SSB time index detection when DRX is used for 1 Rx UE | NR SA FR1-FR1 事件触发的 FR1 报告测试，当 DRX 用于 1 个 Rx UE 时，不进行 SSB 时间索引检测 |
| 3GPP TS 38.533 | 16.6.2.10 | NR SA FR1-FR1 Event triggered reporting tests with additional mandatory gap pattern for 2 Rx UE | NR SA FR1-FR1 事件触发报告测试，为 2 Rx UE 提供额外的强制间隙模式 |
| 3GPP TS 38.533 | 16.6.2.2 | NR SA FR1-FR1 Event triggered reporting tests for FR1 without SSB time index detection when DRX is used for 2 Rx UE | NR SA FR1-FR1 当 DRX 用于 2 Rx UE 时，FR1 的事件触发报告测试不带 SSB 时间索引检测 |
| 3GPP TS 38.533 | 16.6.2.3 | NR SA FR1-FR1 Event triggered reporting tests for FR1 without SSB time index detection when DRX is used for 1 Rx UE | NR SA FR1-FR1 当 DRX 用于 1 个 Rx UE 时，不进行 SSB 时间索引检测的 FR1 事件触发报告测试 |
| 3GPP TS 38.533 | 16.6.2.4 | NR SA FR1-FR1 Event triggered reporting tests for FR1 without SSB time index detection when DRX is not used for 2 Rx UE | NR SA FR1-FR1 当 DRX 不用于 2 Rx UE 时，不进行 SSB 时间索引检测的 FR1 事件触发报告测试 |
| 3GPP TS 38.533 | 16.6.2.5 | NR SA FR1-FR1 Event triggered reporting tests for FR1 with SSB time index detection when DRX is not used for 1 Rx UE | NR SA FR1-FR1 当 DRX 不用于 1 Rx UE 时，对 FR1 进行事件触发报告测试，包括 SSB 时间索引检测 |
| 3GPP TS 38.533 | 16.6.2.6 | NR SA FR1-FR1 Event triggered reporting tests for FR1 with SSB time index detection when DRX is not used for 2 Rx UE | NR SA FR1-FR1 当 DRX 不用于 2 Rx UE 时，对 FR1 进行 SSB 时间索引检测的事件触发报告测试 |
| 3GPP TS 38.533 | 16.6.2.7 | NR SA FR1-FR1 Event triggered reporting tests for FR1 with SSB time index detection when DRX is used for 1 Rx UE | NR SA FR1-FR1 当 DRX 用于 1 Rx UE 时，对 FR1 进行 SSB 时间索引检测的事件触发报告测试 |
| 3GPP TS 38.533 | 16.6.2.8 | NR SA FR1-FR1 Event triggered reporting tests for FR1 with SSB time index detection when DRX is used for 2 Rx UE | NR SA FR1-FR1 当 DRX 用于 2 Rx UE 时，对 FR1 进行 SSB 时间索引检测的事件触发报告测试 |
| 3GPP TS 38.533 | 16.6.2.9 | NR SA FR1-FR1 Event triggered reporting tests with additional mandatory gap pattern for 1 Rx UE | NR SA FR1-FR1 事件触发报告测试，在 1 Rx UE 中使用额外的强制间隙模式 |
| 3GPP TS 38.533 | 16.6.4.1 | NR SA FR1 SSB based L1-RSRP measurement when DRX is not used for 1 Rx UE | NR SA FR1 DRX 未用于 1 Rx UE 时基于 SSB 的 L1-RSRP 测量 |
| 3GPP TS 38.533 | 16.6.4.2 | NR SA FR1 SSB based L1-RSRP measurement when DRX is not used for 2 Rx UE | NR SA FR1 基于 SSB 的 L1-RSRP 测量，当 DRX 未用于 2 Rx UE 时 |
| 3GPP TS 38.533 | 16.6.4.3 | NR SA FR1 SSB based L1-RSRP measurement when DRX is used for 1 Rx UE | 当 DRX 用于 1 Rx UE 时，基于 NR SA FR1 SSB 的 L1-RSRP 测量 |
| 3GPP TS 38.533 | 16.6.4.4 | NR SA FR1 SSB based L1-RSRP measurement when DRX is used for 2 Rx UE | 当 DRX 用于 2 Rx UE 时，NR SA FR1 基于 SSB 的 L1-RSRP 测量 |
| 3GPP TS 38.533 | 16.6.4.5 | NR SA FR1 CSI-RS based L1-RSRP measurement when DRX is not used for 1 Rx UE | NR SA FR1 当 DRX 不用于 1 Rx UE 时基于 CSI-RS 的 L1-RSRP 测量 |
| 3GPP TS 38.533 | 16.6.4.6 | NR SA FR1 CSI-RS based L1-RSRP measurement when DRX is not used for 2 Rx UE | NR SA FR1 当 DRX 不用于 2 Rx UE 时基于 CSI-RS 的 L1-RSRP 测量 |
| 3GPP TS 38.533 | 16.6.4.7 | NR SA FR1 CSI-RS based L1-RSRP measurement when DRX is used for 1 Rx UE | NR SA FR1 DRX 用于 1 Rx UE 时基于 CSI-RS 的 L1-RSRP 测量 |
| 3GPP TS 38.533 | 16.6.4.8 | NR SA FR1 CSI-RS based L1-RSRP measurement when DRX is used for 2 Rx UE | NR SA FR1 DRX 用于 2 Rx UE 时基于 CSI-RS 的 L1-RSRP 测量 |
| 3GPP TS 38.533 | 16.7.1.1.1 | NR SA FR1 Intra-frequency case absolute measurement accuracy with FR1 serving cell and FR1 target cell for 1 Rx UE | NR SA FR1 1 Rx UE 使用 FR1 服务小区和 FR1 目标小区时的频率内绝对测量精度 |
| 3GPP TS 38.533 | 16.7.1.1.2 | NR SA FR1 Intra-frequency case relative measurement accuracy with FR1 serving cell and FR1 target cell for 1 Rx UE | NR SA FR1 1 Rx UE 的 FR1 服务小区和 FR1 目标小区的频率内相对测量精度 |
| 3GPP TS 38.533 | 16.7.1.2.1 | NR SA FR1 Intra-frequency absolute case measurement accuracy with FR1 serving cell and FR1 target cell for 2Rx UE | NR SA FR1 使用 FR1 服务小区和 FR1 目标小区进行 2Rx UE 的频率内绝对情况测量精度 |
| 3GPP TS 38.533 | 16.7.1.2.2 | NR SA FR1 Intra-frequency absolute case measurement accuracy with FR1 serving cell and FR1 target cell for 2Rx UE | NR SA FR1 使用 FR1 服务小区和 FR1 目标小区进行 2Rx UE 的频率内绝对情况测量精度 |
| 3GPP TS 38.533 | 16.7.2.1 | NR SA FR1 Intra-frequency measurement accuracy with FR1 serving cell and FR1 target cell for 1 Rx UE | NR SA FR1 1Rx UE 的 FR1 服务小区和 FR1 目标小区的频率内测量精度 |
| 3GPP TS 38.533 | 16.7.2.2 | NR SA FR1 Intra-frequency measurement accuracy with FR1 serving cell and FR1 target cell for 2 Rx UE | NR SA FR1 服务小区 FR1 和 2Rx UE 目标小区 FR1 的频率内测量精度 |
| 3GPP TS 38.533 | 16.7.2.3.1 | NR SA FR1-FR1 Inter-frequency absolute measurement accuracy with FR1 serving cell and FR1 target cell for 1 Rx UE | NR SA FR1-FR1 1 Rx UE 的 FR1 服务小区和 FR1 目标小区的频间绝对测量精度 |
| 3GPP TS 38.533 | 16.7.2.3.2 | NR SA FR1-FR1 Inter-frequency relative measurement accuracy with FR1 serving cell and FR1 target cell for 1 Rx UE | NR SA FR1-FR1 1 个接收 UE 的 FR1 服务小区和 FR1 目标小区的频间相对测量精度 |
| 3GPP TS 38.533 | 16.7.2.4.1 | NR SA FR1-FR1 Inter-frequency absolute measurement accuracy with FR1 serving cell and FR1 target cell for 2 Rx UE | NR SA FR1-FR1 2 Rx UE 的 FR1 服务小区和 FR1 目标小区的频间绝对测量精度 |
| 3GPP TS 38.533 | 16.7.2.4.2 | NR SA FR1-FR1 Inter-frequency relative measurement accuracy with FR1 serving cell and FR1 target cell for 2 Rx UE | NR SA FR1-FR1 2 Rx UE 的 FR1 服务小区和 FR1 目标小区的频间相对测量精度 |
| 3GPP TS 38.533 | 16.7.3.1 | NR SA FR1 Intra-frequency measurement accuracy with FR1 serving cell and FR1 target cell for 1 Rx UE | NR SA FR1 服务小区 FR1 和目标小区 FR1 对于 1 个接收 UE 的频内测量精度 |
| 3GPP TS 38.533 | 16.7.3.2 | NR SA FR1 Intra-frequency measurement accuracy with FR1 serving cell and FR1 target cell for 2 Rx UE | NR SA FR1 服务小区 FR1 和 2 Rx UE 目标小区 FR1 的频率内测量精度 |
| 3GPP TS 38.533 | 16.7.3.3.1 | NR SA FR1-FR1 Inter-frequency absloute measurement accuracy with FR1 serving cell and FR1 target cell for 1 Rx UE | NR SA FR1-FR1 1 Rx UE 的 FR1 服务小区和 FR1 目标小区的频间缺省路测量精度 |
| 3GPP TS 38.533 | 16.7.3.3.2 | NR SA FR1-FR1 Inter-frequency relative measurement accuracy with FR1 serving cell and FR1 target cell for 1 Rx UE | NR SA FR1-FR1 1 个接收 UE 的 FR1 服务小区和 FR1 目标小区的频间相对测量精度 |
| 3GPP TS 38.533 | 16.7.3.4.1 | NR SA FR1-FR1 Inter-frequency absolute measurement accuracy with FR1 serving cell and FR1 target cell for 2 Rx UE | NR SA FR1-FR1 2 Rx UE 的 FR1 服务小区和 FR1 目标小区的频间绝对测量精度 |
| 3GPP TS 38.533 | 16.7.3.4.2 | NR SA FR1-FR1 Inter-frequency relative measurement accuracy with FR1 serving cell and FR1 target cell for 2 Rx UE | NR SA FR1-FR1 2 Rx UE 的 FR1 服务小区和 FR1 目标小区的频间相对测量精度 |
| 3GPP TS 38.533 | 16.7.4.1.1 | NR SA FR1 SSB based L1-RSRP absolute measurement for 1 Rx UE | NR SA FR1 基于 SSB 的 L1-RSRP 绝对测量，适用于 1 Rx UE |
| 3GPP TS 38.533 | 16.7.4.1.2 | NR SA FR1 SSB based L1-RSRP relative measurement for 1 Rx UE | NR SA FR1 基于 SSB 的 L1-RSRP 相对测量，适用于 1 Rx UE |
| 3GPP TS 38.533 | 16.7.4.2.1 | NR SA FR1 SSB based L1-RSRP absolute measurement for 2 Rx UE | NR SA FR1 基于 SSB 的 L1-RSRP 绝对测量，用于 2 Rx UE |
| 3GPP TS 38.533 | 16.7.4.2.2 | NR SA FR1 SSB based L1-RSRP relative measurement for 2 Rx UE | NR SA FR1 基于 SSB 的 L1-RSRP 相对测量，用于 2 Rx UE |
| 3GPP TS 38.533 | 16.7.4.3.1 | NR SA FR1 CSI-RS based L1-RSRP absolute measurement on resource set with repetition off for 1 Rx UE | NR SA FR1 基于 CSI-RS 的 L1-RSRP 绝对测量，用于 1 Rx UE 的资源集（重复关闭）。 |
| 3GPP TS 38.533 | 16.7.4.3.2 | NR SA FR1 CSI-RS based L1-RSRP relative measurement on resource set with repetition off for 1 Rx UE | NR SA FR1 基于 CSI-RS 的 L1-RSRP 资源集相对测量，1 个 Rx UE 的重复关闭 |
| 3GPP TS 38.533 | 16.7.4.4.1 | NR SA FR1 CSI-RS based L1-RSRP absolute measurement on resource set with repetition off for 2 Rx UE | NR SA FR1 基于 CSI-RS 的 L1-RSRP 资源集绝对测量，2 Rx UE 的重复关闭 |
| 3GPP TS 38.533 | 16.7.4.4.2 | NR SA FR1 CSI-RS based L1-RSRP relative measurement on resource set with repetition off for 2 Rx UE | NR SA FR1 基于 CSI-RS 的资源集 L1-RSRP 相对测量，关闭 2 个 Rx UE 的重复。 |
| 3GPP TS 38.533 | 16.7.5.1 | NR SA FR1 - E-UTRA Measurement accuracy with FR1 serving cell for 1 Rx UE | NR SA FR1 - E-UTRA 1 Rx UE 的 FR1 服务小区测量精度 |
| 3GPP TS 38.533 | 16.7.5.2 | NR SA FR1 - E-UTRA Measurement accuracy with FR1 serving cell for 2 Rx UE | NR SA FR1 - E-UTRA FR1 服务小区对 2 个 Rx UE 的测量精度 |
| 3GPP TS 38.533 | 16.7.6.1 | NR SA FR1 - E-UTRA Measurement accuracy with FR1 serving cell for 1 Rx UE | NR SA FR1 - E-UTRA FR1 服务小区对 1 个 Rx UE 的测量精度 |
| 3GPP TS 38.533 | 16.7.6.2 | NR SA FR1 - E-UTRA Measurement accuracy with FR1 serving cell for 2 Rx UE | NR SA FR1 - E-UTRA FR1 服务小区对 2 个 Rx UE 的测量精度 |
| 3GPP TS 38.533 | 18.3.1.1 | E-UTRA - NR SA FR1 Event triggered reporting tests for FR1 without SSB time index detection when DRX is not used | E-UTRA - NR SA FR1 不使用 DRX 时 FR1 的事件触发报告测试，无 SSB 时间索引检测 |
| 3GPP TS 38.533 | 18.3.1.3 | E-UTRA - NR SA FR1 Event triggered reporting tests for FR1 with SSB time index detection when DRX is not used | E-UTRA - NR SA FR1 不使用 DRX 时，对 FR1 进行事件触发报告测试，包括 SSB 时间索引检测 |
| 3GPP TS 38.533 | 16.6.2.9 | NR SA FR1-FR1 Event triggered reporting tests with additional mandatory gap pattern for 1 Rx UE | NR SA FR1-FR1 事件触发报告测试，对 1 个 Rx UE 进行附加强制间隙模式测试 |

#### 1.4.3 协议一致性测试用例

需包括但不仅限于如下用例，且测试用例已通过GCF/PTCRB认证；

|  |  |  |
| --- | --- | --- |
| Test Specification测试标准 | Test Case用例编号 | Title名称 |
| 3GPP TS 34.229-5 | 6.2 | Initial Registration Failures / 5GS |
| 3GPP TS 34.229-5 | 6.3 | Re-Registration Scenarios / 5GS |
| 3GPP TS 34.229-5 | 6.4 | De-Registration Scenarios / 5GS |
| 3GPP TS 34.229-5 | 6.6 | Re-Registration after capability update / 5GS |
| 3GPP TS 34.229-5 | 6.7 | Authentication / MAC Parameter Invalid / Only two consecutive invalid challenges / 5GS |
| 3GPP TS 34.229-5 | 6.8 | Authentication / Security-Server missing / SQN out of range / 5GS |
| 3GPP TS 34.229-5 | 6.9 | Subscription / 503 Service Unavailable / 5GS |
| 3GPP TS 34.229-5 | 7.1 | MTSI MO Voice Call / 503 Service Unavailable / 5GS |
| 3GPP TS 34.229-5 | 7.2 | MTSI MO Voice Call / 504 Server Time-out / 5GS |
| 3GPP TS 34.229-5 | 7.4a | MTSI MO Voice Call with preconditions at both originating UE and terminating UE / Default Configuration / 5GS |
| 3GPP TS 34.229-5 | 7.5 | MTSI MO Voice Call without preconditions at both originating UE and terminating UE / 5GS |
| 3GPP TS 34.229-5 | 7.6a | MTSI MT Voice Call with preconditions at both originating UE and terminating UE / Default Configuration / 5GS |
| 3GPP TS 34.229-5 | 7.7 | MTSI MT Voice Call without preconditions at both originating UE and terminating UE / 5GS |
| 3GPP TS 34.229-5 | 7.8 | MTSI MT Voice Call without preconditions at originating UE and with preconditions at terminating UE / 5GS |
| 3GPP TS 34.229-5 | 7.9 | MTSI MT Voice Call with preconditions at originating UE and without preconditions at terminating UE / 5GS |
| 3GPP TS 34.229-5 | 7.10 | MTSI MT Voice call without preconditions and without SDP offer in MT INVITE / 5GS |
| 3GPP TS 34.229-5 | 7.11 | MTSI MT Voice call without preconditions at terminating UE and originating UE requiring them / 5GS |
| 3GPP TS 34.229-5 | 7.12 | MTSI MT Voice Call when remote end reserves resources before sending INVITE / 5GS |
| 3GPP TS 34.229-5 | 7.13 | MTSI MT Voice Call with RTCP disabled / 5GS |
| 3GPP TS 34.229-5 | 7.14 | MTSI MO Video call with preconditions at both originating UE and terminating UE / 5GS |
| 3GPP TS 34.229-5 | 7.15 | MTSI MO Video call without preconditions at both originating UE and terminating UE / 5GS |
| 3GPP TS 34.229-5 | 7.16 | MTSI MT Video call with preconditions at both originating UE and terminating UE / 5GS |
| 3GPP TS 34.229-5 | 7.17 | MTSI MT Video call without preconditions at both originating UE and terminating UE / 5GS |
| 3GPP TS 34.229-5 | 7.18 | MTSI MO Voice Call / EVS / AMR-WB / 5GS |
| 3GPP TS 34.229-5 | 7.19 | MTSI MT Voice Call / EVS / AMR-WB IO mode / 5GS |
| 3GPP TS 34.229-5 | 7.20 | MTSI MO Voice Call / add video and remove video / with preconditions at both originating UE and terminating UE / 5GS |
| 3GPP TS 34.229-5 | 7.21 | MTSI MO Voice Call / add video and remove video / without preconditions at both originating UE and terminating UE / 5GS |
| 3GPP TS 34.229-5 | 7.22 | MTSI MT Voice Call / add video and remove video / with preconditions at both originating UE and terminating UE / 5GS |
| 3GPP TS 34.229-5 | 7.23 | MTSI MT Voice Call / add video and remove video / without preconditions at both originating UE and terminating UE / 5GS |
| 3GPP TS 34.229-5 | 7.24 | Forking / UE receives two responses and one CANCEL request / 5GS |
| 3GPP TS 34.229-5 | 7.24a | MTSI MO Voice Call / Forking / UE receives two preliminary responses and one early dialog termination / 5GS |
| 3GPP TS 34.229-5 | 7.24b | MTSI MO Voice Call / UE receives two preliminary responses and one final response / 5GS |
| 3GPP TS 34.229-5 | 7.25 | MTSI MT Voice call without SDP offer in INVITE / 5GS |
| 3GPP TS 34.229-5 | 7.26 | Mobile Originating CAT / Forking Model / MO Voice Call / 5GS |
| 3GPP TS 34.229-5 | 7.27 | Session Timer / MO Voice Call / UE is able to refresh the session / 5GS |
| 3GPP TS 34.229-5 | 7.28 | Session Timer / MO Voice Call / Remote end is refresher / 5GS |
| 3GPP TS 34.229-5 | 7.29 | Session Timer / MO Voice Call / Remote end does not support Session Timer / 5GS |
| 3GPP TS 34.229-5 | 7.30 | Session Timer / MO Voice Call / Remote end supports but does not use Session Timer / 5GS |
| 3GPP TS 34.229-5 | 7.31 | Session Timer / MT Voice Call / Remote end supports but does not send Session-Expires / 5GS |
| 3GPP TS 34.229-5 | 7.32 | Session Timer / MT Voice Call / Remote end sends Session-Expires but does not choose refresher / 5GS |
| 3GPP TS 34.229-5 | 7.33 | Session Timer / MT Voice Call / Remote end chooses UE as refresher / 5GS |
| 3GPP TS 34.229-5 | 7.34 | Session Timer / MT Voice Call / Remote end does not support Session Timer / 5GS |
| 3GPP TS 34.229-5 | 8.1 | Originating Identification Presentation / Configuration / 5GS |
| 3GPP TS 34.229-5 | 8.2 | Originating Identification Restriction / Configuration / 5GS |
| 3GPP TS 34.229-5 | 8.3 | Originating Identification Restriction / Signalling / 5GS |
| 3GPP TS 34.229-5 | 8.4 | Terminating Identification Presentation / Configuration / 5GS |
| 3GPP TS 34.229-5 | 8.5 | Terminating Identification Restriction / Configuration / 5GS |
| 3GPP TS 34.229-5 | 8.6 | Terminating Identification Restriction / Signalling / 5GS |
| 3GPP TS 34.229-5 | 8.7 | Communication Forwarding Unconditional / Configuration / 5GS |
| 3GPP TS 34.229-5 | 8.8 | Communication Forwarding Unconditional / Signalling / 5GS |
| 3GPP TS 34.229-5 | 8.9 | Communication Forwarding on Not Logged-in / Configuration / 5GS |
| 3GPP TS 34.229-5 | 8.11 | Communication Forwarding on Busy / Configuration / 5GS |
| 3GPP TS 34.229-5 | 8.13 | Communication Forwarding on Subscriber Not Reachable / Configuration / 5GS |
| 3GPP TS 34.229-5 | 8.15 | Communication Forwarding on No Reply / Configuration / 5GS |
| 3GPP TS 34.229-5 | 8.17 | Barring of All Incoming Calls / 5GS |
| 3GPP TS 34.229-5 | 8.19 | Barring of All Incoming Calls from anonymous users / 5GS |
| 3GPP TS 34.229-5 | 8.21 | Barring of all Outgoing Calls / 5GS |
| 3GPP TS 34.229-5 | 8.22 | Barring of Outgoing International Calls / 5GS |
| 3GPP TS 34.229-5 | 8.23 | Barring of Outgoing International Calls / ex Home Country / 5GS |
| 3GPP TS 34.229-5 | 8.25 | Barring of Incoming Calls / When Roaming / 5GS |
| 3GPP TS 34.229-5 | 8.26 | MO Voice Call Hold without announcement / 5GS |
| 3GPP TS 34.229-5 | 8.27 | MO Video Call Hold without announcement / 5GS |
| 3GPP TS 34.229-5 | 8.28 | MT Voice Call Hold without announcement / 5GS |
| 3GPP TS 34.229-5 | 8.29 | MT Video Call Hold without announcement / 5GS |
| 3GPP TS 34.229-5 | 8.30 | Subscription to the MWI event package / 5GS |
| 3GPP TS 34.229-5 | 8.31 | Creating and leaving a conference / 5GS |
| 3GPP TS 34.229-5 | 8.32 | Inviting user to conference by sending a REFER request to the conference focus / 5GS |
| 3GPP TS 34.229-5 | 8.33 | Inviting user to conference by sending a REFER request to the conference focus / Video / 5GS |
| 3GPP TS 34.229-5 | 8.34 | Three way session creation / Voice / 5GS |
| 3GPP TS 34.229-5 | 8.35 | Three way session creation / Video / 5GS |
| 3GPP TS 34.229-5 | 8.36 | MO Voice Explicit Communication Transfer / Consultative Call Transfer / 5GS |
| 3GPP TS 34.229-5 | 8.37 | Communication Waiting and answering the voice call / 5Gs |
| 3GPP TS 34.229-5 | 8.38 | Communication Waiting and cancelling the voice call / 5GS |
| 3GPP TS 34.229-5 | 8.39 | GBA authentication / 5GS |
| 3GPP TS 34.229-5 | 8.40 | User initiated USSI / 5GS |
| 3GPP TS 34.229-5 | 8.41 | Communication Forwarding on No Reply: MO Voice Call initiation with preconditions |
| 3GPP TS 34.229-5 | 9.1 | Mobile Originating SMS / 5GS |
| 3GPP TS 34.229-5 | 9.2 | Mobile Originating SMS / 5GS |
| 3GPP TS 34.229-5 | 9.3 | Mobile Originating Concatenated SMS / 5GS |
| 3GPP TS 34.229-5 | 9.4 | Mobile Terminating Concatenated SMS / 5GS |
| 3GPP TS 34.229-5 | 9.5 | Mobile Originating SMS / RP-ERROR / 5GS |
| 3GPP TS 34.229-5 | 10.1 | Emergency Call with emergency registration / Success / Location information available / 5GS |
| 3GPP TS 34.229-5 | 10.2 | Emergency Call with emergency registration / Success / Location information not available / 5GS |
| 3GPP TS 34.229-5 | 10.3 | Emergency call with emergency registration / Emergency SIP signalling and media in parallel with an other ongoing IM CN subsystem signalling and media / 5GS |
| 3GPP TS 34.229-5 | 10.4 | Non-UE detectable emergency call / IM CN sends a 1xx response / UE geographical location information available or not / 5GS |
| 3GPP TS 34.229-5 | 10.6 | Non-UE detectable emergency call / IM CN sends 380 with an Alternative Service / Previous emergency IMS registration not expired / 5GS |
| 3GPP TS 34.229-5 | 10.9 | Emergency call without emergency registration / UE credentials are not accepted / 5GS |
| 3GPP TS 34.229-5 | 10.10 | Emergency call without emergency registration / Failure of registration / Rejected by 403 (Forbidden) / 5GS |
| 3GPP TS 34.229-5 | 10.12 | User-initiated emergency reregistration / UE has emergency related ongoing dialog / 5GS |
| 3GPP TS 34.229-5 | 10.13 | User-initiated emergency reregistration / User initiates an emergency call / 5GS |
| 3GPP TS 34.229-5 | 10.14 | In parallel emergency and non-emergency registrations / 5GS |
| 3GPP TS 34.229-5 | 11.4 | eCall over IMS / Manual initiation / MSD transfer and 200 OK with ACK / SIP INFO for MSD Update / Success / 5GS |
| 3GPP TS 34.229-5 | 11.5 | eCall over IMS / Automatic initiation / MSD transfer and 200 OK with ACK / SIP INFO request for MSD Update / Success / 5GS |
| 3GPP TS 34.229-5 | 11.6 | eCall over IMS / Automatic initiation / MSD transfer and 200 OK with ACK / SIP INFO request for unsupported MSD / UE indicates unsuccessful in SIP INFO / 5GS |
| 3GPP TS 38.523-1 | 6.1.1.1 | PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode |
| 3GPP TS 38.523-1 | 6.1.1.2 | PLMN selection of 'Other PLMN/access technology combinations' / Automatic mode |
| 3GPP TS 38.523-1 | 6.1.1.3 | Cell reselection of ePLMN in manual mode |
| 3GPP TS 38.523-1 | 6.1.1.4 | PLMN selection in shared network environment / Automatic mode |
| 3GPP TS 38.523-1 | 6.1.1.4a | PLMN selection in shared network environment / Automatic mode / Cells broadcasting multiple PLMN IDs with unique TAC's, RAN areas, and cell identities |
| 3GPP TS 38.523-1 | 6.1.1.5 | PLMN selection of RPLMN, HPLMN/EHPLMN, UPLMN and OPLMN / Automatic mode / User reselection |
| 3GPP TS 38.523-1 | 6.1.1.6 | PLMN selection / Periodic reselection / MinimumPeriodicSearchTimer |
| 3GPP TS 38.523-1 | 6.1.1.7 | PLMN selection of RPLMN or (E)HPLMN; Automatic mode |
| 3GPP TS 38.523-1 | 6.1.1.8 | PLMN selection of RPLMN or (E)HPLMN; Manual mode |
| 3GPP TS 38.523-1 | 6.1.2.1 | Cell Selection/Qrxlevmin & Cell Reselection (Intra NR) |
| 3GPP TS 38.523-1 | 6.1.2.2 | Cell Selection / Qqualmin / Intra NR / Serving cell becomes non-suitable (Srxlev > 0, Squal < 0) |
| 3GPP TS 38.523-1 | 6.1.2.3 | Cell selection / Intra NR/ Serving cell becomes non-suitable (S<0 , MIB Indicated barred) |
| 3GPP TS 38.523-1 | 6.1.2.4 | Cell reselection for interband operation |
| 3GPP TS 38.523-1 | 6.1.2.5 | Cell reselection for interband operation using Pcompensation / Between FDD and TDD |
| 3GPP TS 38.523-1 | 6.1.2.7 | Cell reselection / Equivalent PLMN |
| 3GPP TS 38.523-1 | 6.1.2.8 | Cell reselection / Equivalent PLMN / Single Frequency operation |
| 3GPP TS 38.523-1 | 6.1.2.9 | Cell reselection using Qhyst, Qoffset and Treselection |
| 3GPP TS 38.523-1 | 6.1.2.11 | Area Specific SIBs using systemInformationAreaID  |
| 3GPP TS 38.523-1 | 6.1.2.12 | Cell reselection using cell status and cell reservations / cellReservedForOtherUse  |
| 3GPP TS 38.523-1 | 6.1.2.13 | Cell reselection using cell status and cell reservations / Access Identity 0, 1 , 2 and 12 to 14 - cellReservedForOperatorUse |
| 3GPP TS 38.523-1 | 6.1.2.14 | Cell reselection using cell status and cell reservations / Access Identity 11 or 15 - cellReservedForOperatorUse |
| 3GPP TS 38.523-1 | 6.1.2.15 | Cell reselection in shared network environment |
| 3GPP TS 38.523-1 | 6.1.2.15a | Cell reselection in shared network environment / Cells broadcasting multiple PLMN IDs with unique TAC's, RAN areas, and cell identities |
| 3GPP TS 38.523-1 | 6.1.2.16 | Inter-frequency cell reselection (equal priority) |
| 3GPP TS 38.523-1 | 6.1.2.17 | Cell reselection / Cell-specific reselection parameters provided by the network in a neighbouring cell list |
| 3GPP TS 38.523-1 | 6.1.2.18 | Cell reselection, Sintrasearch, Snonintrasearch |
| 3GPP TS 38.523-1 | 6.1.2.19 | Speed-dependent cell reselection |
| 3GPP TS 38.523-1 | 6.1.2.20 | Inter-frequency cell reselection according to cell reselection priority provided by SIBs |
| 3GPP TS 38.523-1 | 6.1.2.21 | Cell reselection, SIntraSearchQ and SnonIntraSearchQ |
| 3GPP TS 38.523-1 | 6.1.2.22 | Inter-frequency cell reselection based on common priority information with parameters ThreshX, HighQ, ThreshX, LowQ and ThreshServing, LowQ |
| 3GPP TS 38.523-1 | 6.1.2.23 | Cell Reselection / MFBI |
| 3GPP TS 38.523-1 | 6.2.1.1 | Inter-RAT PLMN Selection / Selection of correct RAT for OPLMN / Automatic mode |
| 3GPP TS 38.523-1 | 6.2.1.2 | Inter-RAT PLMN Selection / Selection of correct RAT for UPLMN / Automatic mode |
| 3GPP TS 38.523-1 | 6.2.1.3 | Inter-RAT PLMN Selection / Selection of correct PLMN and RAT in shared network environment / Automatic mode |
| 3GPP TS 38.523-1 | 6.2.1.4 | Inter-RAT PLMN Selection / Selection of correct RAT from the OPLMN list / Manual mode |
| 3GPP TS 38.523-1 | 6.2.1.5 | Inter-RAT Background HPLMN Search / Search for correct RAT for HPLMN / Automatic Mode |
| 3GPP TS 38.523-1 | 6.2.2.1 | Inter-RAT cell selection / From NR RRC\_IDLE to EUTRA\_Idle / Serving cell becomes non-suitable |
| 3GPP TS 38.523-1 | 6.2.2.2 | Inter-RAT cell selection / From E-UTRA\_Idle to NR RRC\_IDLE / Serving cell becomes non-suitable |
| 3GPP TS 38.523-1 | 6.2.3.1 | Inter-RAT cell reselection / From E-UTRA\_Idle to NR RRC\_IDLE (lower priority & higher priority, Srxlev based) |
| 3GPP TS 38.523-1 | 6.2.3.2 | Inter-RAT cell reselection / From E-UTRA\_Idle to NR RRC\_IDLE (lower priority & higher priority, Squal based) |
| 3GPP TS 38.523-1 | 6.2.3.3 | Inter-RAT cell reselection / From NR RRC\_IDLE to E-UTRA\_IDLE (lower priority & higher priority, Srxlev based) |
| 3GPP TS 38.523-1 | 6.2.3.4 | Inter-RAT cell reselection / From NR RRC\_Idle to E-UTRA\_IDLE (lower priority & higher priority, Squal based) |
| 3GPP TS 38.523-1 | 6.2.3.5 | Inter-RAT cell reselection / From NR RRC\_IDLE to E-UTRA\_Idle according to RAT priority provided by dedicated signalling (RRCRelease) |
| 3GPP TS 38.523-1 | 6.2.3.6 | Inter-RAT cell reselection / From E-UTRA\_Idle to NR RRC\_IDLE according to RAT priority provided by dedicated signalling (RRConnRelease) |
| 3GPP TS 38.523-1 | 6.2.3.7 | Inter-RAT cell reselection / From NR RRC\_IDLE to E-UTRA RRC\_Idle, Snonintrasearch |
| 3GPP TS 38.523-1 | 6.2.3.8 | Inter-RAT cell reselection / From E-UTRA RRC\_IDLE to NR RRC\_Idle, Snonintrasearch |
| 3GPP TS 38.523-1 | 6.2.3.10 | Inter-RAT cell reselection / From E-UTRA\_Idle to NR RRC\_IDLE / schedulingInfoList-v12j0 |
| 3GPP TS 38.523-1 | 6.2.3.11 | Inter-RAT cell reselection / From E-UTRA\_Idle to NR RRC\_IDLE / schedulingInfoListExt-r12 |
| 3GPP TS 38.523-1 | 6.3.1.1 | Steering of UE in roaming during registration/security check successful using List Type 1 |
| 3GPP TS 38.523-1 | 6.3.1.2 | Steering of UE in roaming during registration/security check successful but SOR Transparent container indicates ACK has been NOT been requested |
| 3GPP TS 38.523-1 | 6.3.1.3 | Steering of UE in roaming during registration/security check unsuccessful/Automatic mode |
| 3GPP TS 38.523-1 | 6.3.1.4 | Steering of UE in roaming during registration/security check unsuccessful/Manual mode |
| 3GPP TS 38.523-1 | 6.3.1.5 | Steering of UE in roaming during registration/UE configured to receive Steering of Roaming information but does not receive Steering of Roaming from Network |
| 3GPP TS 38.523-1 | 6.3.1.7 | Steering of UE in roaming during registration/security check unsuccessful but emergency service pending to be activated |
| 3GPP TS 38.523-1 | 6.3.1.8 | Steering of UE in roaming after registration/automatic plmn selection mode |
| 3GPP TS 38.523-1 | 6.3.1.9 | Steering of UE in roaming after registration/manual plmn selection mode  |
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| 3GPP TS 38.523-1 | 10.1.6.2 | UE-requested PDU session release / Abnormal / Collision with network-requested PDU session release procedure |
| 3GPP TS 38.523-1 | 10.2.1.1 | Default EPS bearer context activation |
| 3GPP TS 38.523-1 | 10.2.1.2 | Dedicated EPS bearer context activation |
| 3GPP TS 38.523-1 | 10.2.2.1 | EPS bearer resource allocation / modification |
| 3GPP TS 38.523-1 | 11.1.1 | MO MMTEL voice call setup from NR RRC\_IDLE / EPS Fallback with redirection / Single registration mode with N26 interface / Success |
| 3GPP TS 38.523-1 | 11.1.1a | MO MMTEL enhanced voice service call setup from NR RRC\_IDLE / EPS Fallback with redirection / Single registration mode with N26 interface / Success |
| 3GPP TS 38.523-1 | 11.1.2 | MO MMTEL voice call setup from NR RRC\_IDLE / EPS Fallback with redirection / Single registration mode without N26 interface / Success |
| 3GPP TS 38.523-1 | 11.1.3 | MO MMTEL voice call setup from NR RRC\_CONNECTED / EPS Fallback with handover / Single registration mode with N26 interface / Success |
| 3GPP TS 38.523-1 | 11.1.3a | MO MMTEL enhanced voice service call setup from NR RRC\_CONNECTED / EPS Fallback with handover / Single registration mode with N26 interface / Success |
| 3GPP TS 38.523-1 | 11.1.4 | MO MMTEL voice call setup from NR RRC\_CONNECTED / EPS Fallback with redirection / Single registration mode with N26 interface / E-UTRAN cell selection using cell status barred / Success |
| 3GPP TS 38.523-1 | 11.1.5 | MO MMTEL voice call setup from NR RRC\_CONNECTED / EPS Fallback with redirection / Single registration mode without N26 interface / E-UTRAN cell selection using cell status reservation / Success |
| 3GPP TS 38.523-1 | 11.1.6 | MT MMTEL voice call setup from NR RRC\_IDLE / EPS Fallback with redirection / Single registration mode without N26 interface / Success |
| 3GPP TS 38.523-1 | 11.1.7 | Emergency call setup from NR RRC\_IDLE / Emergency Services Fallback to EPS with redirection / Single registration mode with N26 interface / Success |
| 3GPP TS 38.523-1 | 11.1.8 | MO MMTEL voice call setup from NR RRC\_CONNECTED / EPS Fallback with handover / Single registration mode with N26 interface / voiceFallbackIndication |
| 3GPP TS 38.523-1 | 11.1.9 | MO MMTEL voice call setup from NR RRC\_IDLE / EPS Fallback with redirection / Single registration mode with N26 interface / voiceFallbackIndication |
| 3GPP TS 38.523-1 | 11.3.1 | UAC / Access Identity 0 / 0% access probability / MTSI MO speech call/SMSoIP |
| 3GPP TS 38.523-1 | 11.3.1a | UAC / Access Identity 0 / 0% access probability / Uplink User data transfer / RRC\_INACTIVE |
| 3GPP TS 38.523-1 | 11.3.2 | UAC / Access Identity 0 / 0% access probability / Paging for MT Access/Emergency Call |
| 3GPP TS 38.523-1 | 11.3.3 | UAC / Access Identity 0 / AC8 / RRC\_INACTIVE / RNAUpdate/RRC Resume |
| 3GPP TS 38.523-1 | 11.3.4 | UAC / Access Identity 0 / Registration procedure for mobility and periodic registration update / BarringPerPLMN/Implicit AC Barring List |
| 3GPP TS 38.523-1 | 11.3.5 | UAC / Access Identity 1 / New cell not in the country of its HPLMN/EHPLMN 0% access probability/MPS indicator / HPLMN/0%/100% accessibility AC5/MMTEL-Video call |
| 3GPP TS 38.523-1 | 11.3.6 | UAC / Access Identity 2 / New cell not in the country of its HPLMN/EHPLMN 0% access probability/MCS indicator / HPLMN/0%/100% accessibility AC7/RRC\_INACTIVE |
| 3GPP TS 38.523-1 | 11.3.7 | UAC / Access Identity 11.15 / High Priority Access / HPLMN/0% accessibility AC2/Emergency call  |
| 3GPP TS 38.523-1 | 11.3.8 | UAC / Access Identity 0 / NR RRC\_IDLE / Cell re-selection while T390 is running |
| 3GPP TS 38.523-1 | 11.3.9 | UAC / Access Identity 0 / ODAC / PLMN / RPLMN / not EPLMN |
| 3GPP TS 38.523-1 | 11.3.10 | UAC / Access Identity 0 / AC9 / 0% access probability / SIP Re-registration |
| 3GPP TS 38.523-1 | 11.4.1 | 5GMM-REGISTERED.NORMAL-SERVICE / 5GMM-IDLE / Emergency call / Utilising emergency number stored on the USIM / New emergency PDU session / Network failing the authentication check (5G AKA) |
| 3GPP TS 38.523-1 | 11.4.2 | 5GMM-DEREGISTERED.LIMITED-SERVICE / Emergency call / Utilisation of emergency numbers stored on the ME / Initial registration for emergency services / Handling of forbidden PLMNs |
| 3GPP TS 38.523-1 | 11.4.3 | 5GMM-DEREGISTERED.NO-SUPI / Emergency call / Utilisation of emergency numbers stored on the ME / Initial registration for emergency services |
| 3GPP TS 38.523-1 | 11.4.4 | 5GMM-REGISTERED.ATTEMPTING-REGISTRATION-UPDATE T3346 running / Emergency call establishment / 5GMM-REGISTERED.NORMAL-SERVICE / Emergency call establishment before T3396 expiry |
| 3GPP TS 38.523-1 | 11.4.5 | 5GMM-REGISTERED.LIMITED-SERVICE / 5GMM-IDLE / Emergency call establishment and release / Handling of 5GS forbidden tracking areas for roaming |
| 3GPP TS 38.523-1 | 11.4.6 | 5GMM-REGISTERED.NON-ALLOWED-SERVICE / Emergency call establishment and release / Handling of non-allowed tracking areas |
| 3GPP TS 38.523-1 | 11.4.7 | Handling of Local and Extended emergency numbers / Mobility |
| 3GPP TS 38.523-1 | 11.4.8 | Handling of Local and extended emergency numbers / Switch-off and maximum local numbers storage |
| 3GPP TS 38.523-1 | 11.4.9 | 5GMM-DEREGISTERED.LIMITED-SERVICE No suitable cells in tracking area / Emergency call establishment and release |
| 3GPP TS 38.523-1 | 11.4.11 | 5GMM-REGISTERED.NORMAL-SERVICE / N26 interface not supported / S1 mode to N1 mode transfer of an existing emergency PDN connection |
| 3GPP TS 38.523-1 | 11.4.12 | GMM-REGISTERED.NORMAL-SERVICE / PDN connection for emergency services established / S1 mode to N1 mode transfer of an existing PDN connection for emergency services |
| 3GPP TS 38.523-1 | 11.5.5 | eCall Only mode / Limited service state / Call to URI for test service should not be attempted / eCall over IMS should be attempted / 5GS |
| 3GPP TS 38.523-1 | 11.6.1 | 3GPP PS Data Off |
| 3GPP TS 38.523-1 | 11.6.2 | 3GPP PS Data Off |
| 3GPP TS 38.523-1 | 11.6.3 | Data Off / SMSoIP |

#### 1.4.4 其他测试用例

系统可以测试如下用例，且测试用例已通过GCF/PTCRB认证；

|  |  |  |  |
| --- | --- | --- | --- |
| Test Specification测试标准 | Test Case用例编号 | Title名称 | 　名称 |
| 3GPP TS 38.521-3 | 6.2B.1.3 | UE Maximum Output Power for Inter-Band EN-DC within FR1 | UE 在 FR1 内的带间 EN-DC 最大输出功率 |
| 3GPP TS 38.521-1 | 6.2.1 | UE maximum output power | UE最大发射功率 |
| 3GPP TS 38.521-4 | 6.3.3.1.2\_NSA | 4Rx FDD FR1 Single PMI with 8Tx Type1 - SinglePanel codebook for both SA and NSA | 4Rx FDD FR1 单 PMI，带 8Tx Type1 - 用于 SA 和 NSA 的单面板代码簿 |
| 3GPP TS 38.521-4 | 6.3.3.1.2\_SA | 4Rx FDD FR1 Single PMI with 8Tx Type1 - SinglePanel codebook for both SA and NSA | 4Rx FDD FR1 带 8Tx 类型 1 的单 PMI - 用于 SA 和 NSA 的单面板码本 |
| 3GPP TS 38.533 | 6.5.5.2 | NR SA FR1 SSB-based beam failure detection and link recovery in DRX | NR SA FR1 DRX 中基于 SSB 的波束故障检测和链路恢复 |
| 3GPP TS 38.533 | 6.5.6.2.1 | SA FR1 RRC-based DL active BWP switch in non-DRX | SA FR1 非 DRX 中基于 RRC 的 DL 主动 BWP 切换 |
| 3GPP TS 38.521-1 | 6.4D.3 | Time alignment error for UL-MIMO | UL-MIMO 时间对齐误差 |
| 3GPP TS 38.521-1 | 7.3A.1 | Reference sensitivity power level for 2DL CA without exception | 无异常情况下 2DL CA 的参考灵敏度功率电平 |
| 3GPP TS 38.521-1 | 7.3A.1\_1 | Reference sensitivity power level for 2DL CA exceptions | 2DL CA 例外情况下的参考灵敏度功率电平 |
| 3GPP TS 38.521-1 | 7.5A.1 | Adjacent channel selectivity for CA (2DL CA) | CA 的相邻信道选择性（2DL CA） |
| 3GPP TS 38.521-1 | 7.6A.2.1 | Inband blocking for CA (2DL CA) | CA 的带内阻塞（2DL CA） |
| 3GPP TS 38.521-1 | 7.6A.2.2 | Inband blocking for CA (3DL CA) | CA 的带内阻塞（3DL CA） |
| 3GPP TS 38.521-1 | 7.6A.2.3 | Inband blocking for CA (4DL CA) | CA 的带内阻塞（4DL CA） |
| 3GPP TS 38.521-1 | 7.6A.3.1 | Out-of-band blocking for CA (2DL CA) | CA 的带外阻塞（2DL CA） |
| 3GPP TS 38.521-1 | 7.6A.3.2 | Out-of-band blocking for CA (3DL CA) | CA 的带外阻塞（3DL CA） |
| 3GPP TS 38.521-1 | 7.6A.3.3 | Out-of-band blocking for CA (4DL CA) | CA 的带外阻塞（4DL CA） |
| 3GPP TS 38.521-1 | 7.6A.4.1 | Narrow band blocking for CA (2DL CA) | CA 的窄带阻塞（2DL CA） |
| 3GPP TS 38.521-1 | 7.6A.4.2 | Narrow band blocking for CA (3DL CA) | CA 的窄带阻塞（3DL CA） |
| 3GPP TS 38.521-1 | 7.6A.4.3 | Narrow band blocking for CA (4DL CA) | CA 的窄带阻塞（4DL CA） |

#### 1.4.5 其他测试用例

需包括但不仅限于如下用例，测试用例已经可以测试，但可接受该部分测试用例未通过GCF/PTCRB认证；

|  |  |  |
| --- | --- | --- |
| Test Specification测试标准 | Test Case用例编号 | Title名称 |
| 3GPP TS 38.533 | 16.1.2.3  | NR SA FR1 - E-UTRA Cell reselection to lower priority E-UTRA for 1RX |
| 3GPP TS 38.533 | 16.1.2.4  | NR SA FR1 - E-UTRA Cell reselection to lower priority E-UTRA for 2RX |
| 3GPP TS 38.533 | 16.5.1.1  | NR SA FR1 Radio Link Monitoring Out-of-sync Test for FR1 PCell configured with SSB-based RLM RS in non-DRX mode for 1 Rx UE |
| 3GPP TS 38.533 | 16.6.2.11 | NR SA FR1-FR1 Event triggered reporting tests for FR1 when DRX is used for 1 Rx UE |
| 3GPP TS 38.533 | 16.6.2.12 | NR SA FR1-FR1 Event triggered reporting tests for FR1 when DRX is used for 2 Rx UE |
| 3GPP TS 38.533 | 16.6.3.1 | NR - E-UTRA event-triggered reporting in non-DRX in FR1 for 1 Rx UE |
| 3GPP TS 38.533 | 16.6.3.2 | NR - E-UTRA event-triggered reporting in non-DRX in FR1 for 2 Rx UE |
| 3GPP TS 38.533 | 16.6.3.3 | NR - E-UTRA event-triggered reporting in DRX in FR1 for 1 Rx UE |
| 3GPP TS 38.533 | 16.6.3.4 | NR - E-UTRA event-triggered reporting in DRX in FR1 for 2 Rx UE |
| 3GPP TS 38.533 | 18.2.1.1 | E-UTRA - NR SA FR1 E-UTRAN - NR handover in FR1 |
| 3GPP TS 38.533 | 18.3.1.2 | E-UTRA - NR SA FR1 Event triggered reporting tests for FR1 without SSB time index detection when DRX is used |
|  |  |  |
| 3GPP TS 34.229-5 | 8.39a | HTTP Digest Authentication / 5GS |
| 3GPP TS 34.229-5 | 11.1 | eCall over IMS / Manual initiation / Normal registration / Emergency registration / Success / 200 OK with ACK / 5GS |
| 3GPP TS 34.229-5 | 11.2 | eCall over IMS / Automatic initiation / Normal registration / Emergency registration / Success / 200 OK with ACK / 5GS |
| 3GPP TS 38.523-1 | 7.1.1.3.8.1 | UE power headroom reporting / SCell activation / DL pathloss change reporting / Intra-band Contiguous CA |
| 3GPP TS 38.523-1 | 7.1.1.7.1.3 | Activation/Deactivation of SCells / Activation/Deactivation MAC control element reception / sCellDeactivationTimer / Intra-band non-Contiguous CA |
| 3GPP TS 38.523-1 | 7.1.1.11.1 | DC power headroom reporting / PSCell activation and DL pathloss change reporting |
| 3GPP TS 38.523-1 | 7.1.1.12.3 | DRX adaptation / UE wakeup indication |
| 3GPP TS 38.523-1 | 7.1.3.5.3 | PDCP Data Recovery |
| 3GPP TS 38.523-1 | 8.1.1.3.8 | RRC connection release / With Suspend Config |
| 3GPP TS 38.523-1 | 8.1.2.1.5.4 | NR CA / RRC reconfiguration / SCell addition / modification / release / Success / Active MCG SCell addition / Intra-band Contiguous CA |
| 3GPP TS 38.523-1 | 8.1.2.1.5.5 | NR CA / RRC reconfiguration / SCell addition / modification / release / Success / Active MCG SCell addition / Intra-band non-Contiguous CA |
| 3GPP TS 38.523-1 | 8.1.2.1.5.6 | NR CA / RRC reconfiguration / SCell addition / modification / release / Success / Active MCG SCell addition / Inter-band CA |
| 3GPP TS 38.523-1 | 8.1.4.2.1.2 | Inter-RAT handover / From NR to EN-DC / Success  |
| 3GPP TS 38.523-1 | 8.1.4.3.1 | DAPS handover with key change / Success / Intra-frequency |
| 3GPP TS 38.523-1 | 8.1.4.3.2 | DAPS handover / HO Failure and source link available / HO Success and RLF in source / Intra-frequency |
| 3GPP TS 38.523-1 | 8.1.4.3.4 | DAPS handover / Success / Inter-frequency |
| 3GPP TS 38.523-1 | 8.1.4.3.5 | DAPS handover / Success / Radio Link Failure in source / Inter-frequency |
| 3GPP TS 38.523-1 | 8.1.5.8.2.3 | Processing delay / RRC\_Inactive to RRC\_Connected / Success / Latency check / SCell addition / Intra-band non-Contiguous CA |
| 3GPP TS 38.523-1 | 8.1.7.1.1 | Measurement configuration control and reporting / CGI reporting of NR NPN cell |
| 3GPP TS 38.523-1 | 8.2.2.1.2 | SRB3 Establishment, Reconfiguration and Release / NR addition, modification and release / NR-DC |
| 3GPP TS 38.523-1 | 8.2.2.5.2 | PSCell addition, modification and release / Split DRB / NR-DC |
| 3GPP TS 38.523-1 | 8.2.3.16.2 | Measurement configuration control and reporting / SRB3 / Intra NR measurements / NR-DC |
| 3GPP TS 38.523-1 | 8.2.4.1.1.4 | NR CA / NR SCell addition / modification / release / Success / EN-DC / Active SCG SCell addition / Intra-band Contiguous CA |
| 3GPP TS 38.523-1 | 8.2.4.1.1.5 | NR CA / NR SCell addition / modification / release / Success / EN-DC / Active SCG SCell addition / Intra-band non-Contiguous CA |
| 3GPP TS 38.523-1 | 8.2.4.1.1.6 | NR CA / NR SCell addition / modification / release / Success / EN-DC / Active SCG SCell addition / Inter-band CA |
| 3GPP TS 38.523-1 | 8.2.4.3.1.2 | NR CA / SCell change / Intra-NR measurement event A6 / SRB3 / EN-DC / Intra-band non-Contiguous CA |
| 3GPP TS 38.523-1 | 9.1.5.1.4 | Initial registration / 5GS services / MICO mode / TAI list handling |
| 3GPP TS 38.523-1 | 9.1.11.3 | SNPN / EAP based primary authentication and key agreement / EAP-AKA' related procedures |
| 3GPP TS 38.523-1 | 11.3.9a | UAC / Access Identity 0 / ODAC / SNPN / RSNPN / new SNPN |
| 3GPP TS 38.523-1 | 11.3.12 | UAC / Access Identity 0 / AC7 / 0% access probability / Uplink user data transfer |
| 3GPP TS 38.523-1 | 11.4.14 | 5GMM-REGISTERED.NORMAL-SERVICE / 5GMM-IDLE / Emergency call /Deregistration upon emergency registration expiration |