



Element Materials Technology

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TAS CELLULAR VALIDATION REPORT

Applicant Name:
Apple, Inc.
One Apple Park Way
Cupertino, CA, 95014, USA

Date of Testing:
12/7/2025 – 1/5/2026
Test Report Issue Date:
01/29/2026
Test Site/Location:
Element, Morgan Hill, CA, USA
Document Serial No.:
1C2509100082-03.BCG-R2

FCC ID: BCGA3462

APPLICANT: APPLE INC.

DUT Type: Tablet Device
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: A3462, A3463
Device Serial Numbers: Pre-Production Samples [Y41WP, RMYGG, K26PX, 6K2H0]

Note: This revised test report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.

RJ Ortanez
Executive Vice President



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Revision Summary

Revision	Description	Issue Date	Revised By
-	Initial Release	12/31/2025	WKRID0000016918
R1	Addressed Applicant's Comments	01/26/2026	WKRID0000016918
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1. DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Data	826.4 - 846.6 MHz
UMTS 1750	Data	1712.4 - 1752.6 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 71	Data	665.5 - 695.5 MHz
LTE Band 12	Data	699.7 - 715.3 MHz
LTE Band 17	Data	706.5 - 713.5 MHz
LTE Band 13	Data	779.5 - 784.5 MHz
LTE Band 14	Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz
LTE Band 30	Data	2307.5 - 2312.5 MHz
LTE Band 7	Data	2502.5 - 2567.5 MHz
LTE Band 41	Data	2498.5 - 2687.5 MHz
LTE Band 48	Data	3552.5 - 3697.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n12	Data	701.5 - 713.5 MHz
NR Band n14	Data	790.5 - 795.5 MHz
NR Band n26 (Cell)	Data	816.5 - 846.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 MHz
NR Band n70	Data	1697.5 - 1707.5 MHz
NR Band n66 (AWS)	Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Data	1852.5 - 1907.5 MHz
NR Band n30	Data	2307.5 - 2312.5 MHz
NR Band n7	Data	2502.5 - 2567.5 MHz
NR Band n41	Data	2501.01 - 2685.0 MHz
NR Band n48	Data	3555.0 - 3694.98 MHz
NR Band n77 DoD	Data	3455.01 - 3544.98 MHz
NR Band n77 C	Data	3705.0 - 3975.0 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz
802.15.4	Data	2405 - 2475 MHz
NB UNII-1	Data	5162 - 5245 MHz
NB UNII-3	Data	5733 - 5844 MHz
WPT	N/A	13.56 MHz

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1.2 Key Parameter Description

Operating parameters	Description
P_{limit}	The maximum possible time-averaged power for all device operating states where TAS is supported.
$P_{limit,nom}$	The target time-averaged power, excluding total device uncertainty.
P_{max}	The maximum possible instantaneous power for all device operating states where TAS is supported.
$SAR_{Design\ Target}$	The maximum Spatial Peak averaged-SAR value, corresponding to $P_{limit,nom}$.
$SAR_{Design\ Limit}$	The maximum Spatial Peak averaged-SAR value, corresponding to P_{limit} .

$P_{limit,nom}$, P_{limit} , and P_{max} values are defined for all antennas, technologies, bands, and operating state combinations supporting TAS on the DUT. The $P_{limit,nom}$ value is defined to ensure the RF exposure is never greater than $SAR_{Design\ Limit}$.

1.3 Time-Averaging Algorithm for RF Exposure Compliance

This DUT supports time-averaging with dynamic budgeting for Cellular technologies to control and manage transmitting power, in real time. Consumed SAR from active radios is tracked and stored for the duration of the applicable regulatory averaging window. Rolling time-averaged SAR values are calculated from the consumed SAR reported from active radios. The time-averaged SAR is always maintained less than the applicable $SAR_{Design\ Limit}$. Only Cellular technologies implement this dynamic budgeting method. Connectivity technologies (WLAN, BT, NB UNII, 802.15.4) implement an independent TAS algorithm for power and budget control.

The purpose of this document is to demonstrate the validity of the Cellular TAS and Budget Sharing feature.

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1.4 Bibliography

Report Type	Report Serial Number
RF Exposure Test Report	1C2509100082-01.BCG
Time-Averaged SAR Validation Report	1C2509100082-02.BCG

1.5 Time-Averaging Algorithm for RF Exposure Compliance

The maximum time-averaged output power (dBm) for any WWAN Sub6 technology, band, and device state is the minimum of (“ P_{limit} ” and “Maximum tune-up output power P_{max} ”) + corresponding device uncertainty on the table above. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D01v06.

The tables below define the following parameters ($\text{SAR}_{\text{target}}$, $\text{SAR Design}_{\text{limit}}$, $P_{\text{limit,nom}}$ and $P_{\text{max,nom}}$ values) for TAS operations.

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1.5.1 SAR Design Target Calculations

Table 1-1
Antenna 1a

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
LTE Band 48	0.94	1.2 W/kg	1.6 W/kg
LTE Band 48 ULCA	0.94		
NR Band n48	0.92		
NR Band n77 DoD (PC3) - [Ch. 633334]	0.85		
NR Band n77 DoD (PC2) - [Ch. 633334]	0.85		
NR Band n77 (PC3) - [Ch. 650000]	1.00		
NR Band n77 (PC2) - [Ch. 650000]	1.00		
NR Band n77 (PC3) - [Ch. 662000]	0.88		
NR Band n77 (PC2) - [Ch. 662000]	0.88		

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**Table 1-2
Antenna 1b**

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
UMTS 1750	1.01	1.2 W/kg	1.6 W/kg
UMTS 1900	0.99		
LTE Band 4	1.01		
LTE Band 66	1.01		
LTE Band 2	0.99		
LTE Band 25	0.99		
LTE Band 30	1.02		
LTE Band 7	0.96		
LTE Band 7 ULCA	0.96		
LTE Band 41 (PC3)	1.00		
LTE Band 41 (PC3) ULCA	1.00		
LTE Band 41 (PC2)	1.00		
LTE Band 41 (PC2) ULCA	1.00		
NR Band n70	0.88		
NR Band n66	0.91		
NR Band n2	0.83		
NR Band n25	0.83		
NR Band n30	0.80		
NR Band n7	0.81		
NR Band n41 (PC3)	0.89		
NR Band n41 (PC2)	0.89		

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Table 1-3
Antenna 2

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
UMTS 850	1.02	1.2 W/kg	1.6 W/kg
UMTS 1750	1.02		
UMTS 1900	1.04		
LTE Band 71	1.02		
LTE Band 12	0.97		
LTE Band 17	0.97		
LTE Band 13	1.02		
LTE Band 14	1.04		
LTE Band 26	0.97		
LTE Band 5	1.02		
LTE Band 5 ULCA	1.02		
LTE Band 4	1.02		
LTE Band 66	1.02		
LTE Band 2	1.04		
LTE Band 25	1.04		
LTE Band 30	1.05		
LTE Band 7	1.05		
LTE Band 7 ULCA	1.05		
LTE Band 48	1.00		
LTE Band 48 ULCA	1.00		
LTE Band 41 (PC3)	1.02		
LTE Band 41 (PC3) ULCA	1.02		
LTE Band 41 (PC2)	1.02		
LTE Band 41 (PC2) ULCA	1.02		
NR Band n71	1.00		
NR Band n12	1.03		
NR Band n14	0.93		
NR Band n26	0.89		
NR Band n5	1.00		
NR Band n70	0.98		
NR Band n66	0.95		
NR Band n2	1.00		
NR Band n25	1.00		
NR Band n30	0.88		
NR Band n7	0.97		
NR Band n48	0.94		
NR Band n41 (PC3)	1.02		
NR Band n41 (PC2)	1.02		
NR Band n77 DoD (PC3) - [Ch. 633334]	0.98		
NR Band n77 DoD (PC2) - [Ch. 633334]	0.98		
NR Band n77 (PC3) - [Ch. 650000]	0.94		
NR Band n77 (PC2) - [Ch. 650000]	0.94		
NR Band n77 (PC3) - [Ch. 662000]	0.95		
NR Band n77 (PC2) - [Ch. 662000]	0.95		

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Table 1-4
Antenna 3a

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
LTE Band 48	0.99	1.2 W/kg	1.6 W/kg
LTE Band 48 ULCA	0.99		
NR Band n48	0.98		
NR Band n77 DoD (PC3) - [Ch. 633334]	0.95		
NR Band n77 DoD (PC2) - [Ch. 633334]	0.95		
NR Band n77 (PC3) - [Ch. 650000]	1.02		
NR Band n77 (PC2) - [Ch. 650000]	1.02		
NR Band n77 (PC3) - [Ch. 662000]	0.92		
NR Band n77 (PC2) - [Ch. 662000]	0.92		

Table 1-5
Antenna 3b

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
UMTS 1750	0.95	1.2 W/kg	1.6 W/kg
UMTS 1900	0.91		
LTE Band 4	0.95		
LTE Band 66	0.95		
LTE Band 2	0.91		
LTE Band 25	0.91		
LTE Band 30	1.03		
LTE Band 7	0.97		
LTE Band 7 ULCA	0.96		
LTE Band 41 (PC3)	0.97		
LTE Band 41 (PC3) ULCA	0.97		
LTE Band 41 (PC2)	0.97		
LTE Band 41 (PC2) ULCA	0.97		
NR Band n70	1.00		
NR Band n66	1.02		
NR Band n2	0.91		
NR Band n25	0.91		
NR Band n30	0.90		
NR Band n7	0.99		
NR Band n41 (PC3)	1.02		
NR Band n41 (PC2)	1.02		

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Table 1-6
Antenna 4

SAR_design_target Calculations			
Mode/Band	1g SAR [W/kg]		
	SAR_design_target	SAR_Design_limit	SAR_regulatory_limit
UMTS 850	1.04	1.2 W/kg	1.6 W/kg
UMTS 1750	1.01		
UMTS 1900	1.02		
LTE Band 71	1.02		
LTE Band 12	1.08		
LTE Band 17	1.08		
LTE Band 13	1.04		
LTE Band 14	1.07		
LTE Band 26	1.01		
LTE Band 5	1.04		
LTE Band 5 ULCA	1.04		
LTE Band 4	1.01		
LTE Band 66	1.01		
LTE Band 2	1.02		
LTE Band 25	1.02		
LTE Band 30	1.06		
LTE Band 7	1.04		
LTE Band 7 ULCA	1.04		
LTE Band 48	0.98		
LTE Band 48 ULCA	0.98		
LTE Band 41 (PC3)	0.98		
LTE Band 41 (PC3) ULCA	0.98		
LTE Band 41 (PC2)	0.98		
LTE Band 41 (PC2) ULCA	0.98		
NR Band n71	1.00		
NR Band n12	1.01		
NR Band n14	0.98		
NR Band n26	1.05		
NR Band n5	1.07		
NR Band n70	1.08		
NR Band n66	0.98		
NR Band n2	0.96		
NR Band n25	0.96		
NR Band n30	0.95		
NR Band n7	0.97		
NR Band n48	0.89		
NR Band n41 (PC3)	1.03		
NR Band n41 (PC2)	1.03		
NR Band n77 DoD (PC3) - [Ch. 633334]	0.94		
NR Band n77 DoD (PC2) - [Ch. 633334]	0.94		
NR Band n77 (PC3) - [Ch. 650000]	0.87		
NR Band n77 (PC2) - [Ch. 650000]	0.87		
NR Band n77 (PC3) - [Ch. 662000]	0.95		
NR Band n77 (PC2) - [Ch. 662000]	0.95		

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2. RF EXPOSURE LIMITS

2.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

2.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

RF Exposure Limits for Frequencies Below 6 GHz

Table 2-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g)
Peak Spatial Average SAR Head	1.6	8.0
Whole Body SAR	0.08	0.4
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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2.3 Time Averaging Windows for FCC Compliance

Per October 2018 TCB Workshop Notes, the below time-averaging windows can be used for assessing time-averaged exposures for devices that are capable of actively monitoring and adjusting power output over time to comply with exposure limits.

Interim Guidance	Frequency (GHz)	Maximum Averaging Time (sec)
SAR	< 3	100
	3 – 6	60
MPE	6 - 10	30
	10 - 16	14
	16 – 24	8
	24 – 42	4
	42 – 95	2

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3. VALIDATION TEST CASES

To validate the time averaging feature and demonstrate the compliance in Tx varying transmission conditions, the following transmission scenarios are covered in the TAS test:

- 1) Time-varying Tx power transmission: To prove that the algorithm accounts for Tx power variations in time accurately.
- 2) Antenna switching scenarios: To prove that the algorithm functions correctly during transitions in antenna.
- 3) Change in band: To prove that the algorithm functions correctly during transitions in bands.
- 4) Change in technology: To prove that the algorithm functions correctly during transitions in technology.
- 5) TDD/FDD Switch: To prove that the algorithm functions correctly during transitions between frequency division duplexing (FDD) and time division duplexing (TDD) configurations.
- 6) Call drop: To prove that the algorithm accounts for history of past Tx power transmissions accurately.
- 7) Linearity Validation: To validate linearity with TAS operation turned off.

The RF exposure is proportional to the Tx power for a SAR-characterized wireless device. Thus, feature validation in TAS can be effectively performed through conducted (for $f < 6\text{GHz}$) power measurement. Therefore, the compliance demonstration under dynamic transmission conditions and feature validation are done in conducted/radiated power measurement setup for transmission scenario 1 through 7.

Conducted power measurements will be used to validate all TAS test cases. In addition, single point SAR measurements will be performed to validate linearity.

Note: Changes in modulation schemes was omitted, as the Plimit values are identical across all modulation schemes for all configurations.

Changes in operating state was omitted.

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4. FCC MEASUREMENT PROCEDURES

This chapter provides the test plan and test procedure for validating Cellular TAS algorithm for sub-6 transmission. The 100 seconds time window for operating $f < 3\text{GHz}$ is used as an example to detail the test procedures in this chapter. The same test plan and test procedures described in this chapter apply to 100 seconds time window for operating $f \leq 3\text{GHz}$. The same test plan and test procedures described in this chapter apply to 60 seconds time window for operating $f \geq 3\text{GHz}$.

4.1 Test Configuration and Procedure for Test Case 1: Time-varying Tx power transmission via Conducted Power Measurements

Test Case 1a – Test Sequence A: Tx power is requested to be at P_{max} for a period of time (duration dependent on configuration being tested), followed by $0.5 \times P_{limit}$ for a period of time (duration dependent on configuration being tested).

Test Case 1b – Test Sequence B: Tx power is requested to be at 1mW (0dBm) for a period of time (duration dependent on configuration being tested), then at P_{max} for a period of time (duration dependent on configuration being tested).

Test Case 1c – Pseudo-Random Validation Sequence: Tx power is requested to vary with time. A unique pseudo-random sequence with 150 independent power requests according to RSS-102.SAR.MEAS is obtained based on the following formula:

$$P_{req} = P_{max,nom} \left(\frac{P_{limit,nom}}{P_{max,nom}} \right)^x$$

- P_{req} is the requested power in watts.
- x is a random value drawn from the Weibull distribution with shape and scale parameters of 2.0 and 0.8 respectively.
- The corresponding request durations are given by:

$$T_{req} = 2(1 + 2y)$$
- P_{req} is the duration of the power request in seconds.
- y is a uniform distributed random value between 0 and 1.

The details for generating test sequences A, B, and pseudo-random are described and listed in Appendix D.

4.1.1 Configuration

Conducted power measurements shall be performed for at least one band per technology. The P_{limit} value associated with the chosen band should be several dB lower than the corresponding value of P_{max} . Whenever possible, the same band should not be repeated for different technologies. FDD, TDD, ENDC, and ULCA configurations shall be treated as separate technologies.

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4.1.2 Procedure

Step 1: Measure P_{max} , measure P_{limit} for all the RATs and selected bands.

Step 2: Apply TAS on EUT to initialize time-averaging behavior.

Step 3: Establish radio link with callbox in the selected RAT/band.

Step 4: Callbox requests the EUT's Tx power according to time-varying test cases.

Step 5: Convert the measured conducted TX power from Step 4 into rolling time-averaged power (P_{avg}) for the n th step using equation 1a.

$$P_{avg}(n) = \frac{1}{M} \sum_{m=0}^{M-1} P_{meas}[n-m] \quad (1a)$$

Where 'M' is the total number of reporting periods per time-averaging window and 'm' is the index of the time-averaging window. The TAS algorithm is validated when P_{avg} is maintained less than or equal to P_{limit} .

In test cases where P_{limit} is not constant, the equation 1b below is used to calculate the normalized, rolling time-averaged power (P_{avg}).

$$P_{avg}(n) = \frac{1}{M} \sum_{m=0}^{M-1} \frac{P_{meas}[n-m]}{P_{limit}[n-m]} \quad (1b)$$

Step 6: Plot results.

- A. Make one power perspective plot containing
 1. Requested power
 2. Measured instantaneous conducted TX power
 3. Power limit P_{limit} in mW
 4. Capable maximum TX power P_{max} in mW
- B. Make one time-averaged validation perspective plot containing
 1. Rolling power average P_{avg} in mW
 2. Power limit P_{limit} in mW

Step 7: repeat steps 2~6 for time varying test case B and pseudo-random test case.

The validation criteria are, at all times, the calculated rolling power average P_{avg} does not exceed P_{limit} .

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4.2 Test Configuration and Procedure for Test Case 2: Antenna Switching via Conducted Power Measurements

4.2.1 Configuration

When different P_{max} and P_{limit} values are associated with each transmitting antenna, consideration shall be given to the combinations of antennas and operating state(s) for which the P_{limit} values are several dB below the corresponding P_{max} values. Of these combinations, the performance of the TAS algorithm shall be validated when the EUT switches from the antenna with the highest P_{limit} value to that with the lowest.

Among RATs/bands supporting TX antenna switches, select the RAT/band with the highest P_{limit} difference between a pair of supported TX antennas.

A single test case covering antenna switch may be performed to display compliance.

4.2.2 Procedures

Step 1: Measure P_{max} measure P_{limit} for both selected antennas.

Step 2: Apply TAS on EUT to initialize time-averaging behavior.

Step 3: Establish radio link with callbox in the selected RAT/band.

Step 4: Request EUT's Tx power at 0 dBm for at least one time window specified for the selected technology/band, then request EUT's Tx power to be at maximum for at least one time window. Switch the radio link to second antenna selected. For the remaining time, continue callbox requesting EUT's TX power to be at maximum power at least one time window.

Step 5: Convert the measured conducted TX power from Step 4 into normalized rolling time-averaged power (P_{avg}) using equation 1b.

Step 6: Plot results.

- A. Make one power perspective plot containing
 1. Requested power
 2. Measured instantaneous conducted TX power
 3. Power limit P_{limit} in mW
 4. Capable maximum TX power P_{max} in mW
- B. Make one time-averaged validation perspective plot containing
 1. Normalized total rolling power average P_{avg} in mW
 2. Normalized rolling power average P_{avg} in mW for each antenna/technology
 3. Normalized power limit P_{limit} in mW

The validation criteria are, at all times, the normalized total rolling power average P_{avg} does not exceed P_{limit} .

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4.3 Test Configuration and Procedure for Test Case 3: Change in Band via Conducted Power Measurements

4.3.1 Configuration

Conducted power measurements shall be performed to validate the TAS algorithm when the EUT switches between frequency bands with different P_{limit} values.

The TAS algorithm shall be validated for the following changes in frequency band:

- Among the frequency band configuration for which the P_{limit} values are several dB below the corresponding P_{max} values, changing from one frequency band to another with a lower P_{limit} value.
- If applicable, changing from an frequency for which the TAS algorithm is transparent $P_{limit} \geq P_{max}$, to one for which P_{limit} is several dB below P_{max} .

A single test case covering frequency band switch may be performed to display compliance.

4.3.2 Procedure

Step 1: Measure P_{max} , measure P_{limit} for both selected bands.

Step 2: Apply TAS on EUT to initialize time-averaging behavior.

Step 3: Establish radio link with callbox in the selected RAT/band.

Step 4: Request EUT's Tx power at 0 dBm for at least one time window specified for the selected technology/band, then request EUT's Tx power to be at maximum for at least one time window. Switch the radio link to second selected band. For the remaining time, continue callbox requesting EUT's TX power to be at maximum power at least one time window.

Step 5: Convert the measured conducted TX power from Step 4 into normalized rolling time-averaged power (P_{avg}) using equation 1b.

Step 6: Plot results.

- A. Make one power perspective plot containing
 1. Requested power
 2. Measured instantaneous conducted TX power
 3. Power limit P_{limit} in mW
 4. Capable maximum TX power P_{max} in mW
- B. Make one time-averaged validation perspective plot containing
 1. Normalized total rolling power average P_{avg} in mW
 2. Normalized rolling power average P_{avg} in mW for each antenna/technology
 3. Normalized power limit P_{limit} in mW

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The validation criteria are, at all times, the normalized total rolling power average P_{avg} does not exceed P_{limit} .

4.4 Test Configuration and Procedure for Test Case 4: Change in Technology via Conducted Power Measurements

4.4.1 Configuration

Conducted power measurements shall be performed to validate the TAS algorithm when the EUT switches between technologies with different P_{limit} values.

Among the technology configuration for which the P_{limit} values are several dB below the corresponding P_{max} values, changing from one technology to another with a lower P_{limit} value.

4.4.2 Procedures

Step 1: Measure P_{max} , measure P_{limit} for both selected technologies.

Step 2: Apply TAS on EUT to initialize time-averaging behavior.

Step 3: Establish radio link with callbox in the selected RAT/band.

Step 4: Request EUT's Tx power at 0 dBm for at least one time window specified for the selected technology/band, then request EUT's Tx power to be at maximum for at least one time window. Switch the radio link to second technology/band selected. For the remaining time, continue callbox requesting EUT's TX power to be at maximum power at least one time window.

Step 5: Convert the measured conducted TX power from Step 4 into normalized rolling time-averaged power (P_{avg}) using equation 1b.

Step 6: Plot results.

- A. Make one power perspective plot containing
 1. Requested power
 2. Measured instantaneous conducted TX power
 3. Power limit P_{limit} in mW
 4. Capable maximum TX power P_{max} in mW
- B. Make one time-averaged validation perspective plot containing
 1. Normalized total rolling power average P_{avg} in mW
 2. Normalized rolling power average P_{avg} in mW for each antenna/technology
 3. Normalized power limit P_{limit} in mW

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The validation criteria are, at all times, the normalized total rolling power average P_{avg} does not exceed P_{limit} .

4.5 Test Configuration and Procedure for Test Case 5: TDD/FDD Switch Configurations via Conducted Power Measurements

4.5.1 Configuration

Conducted power measurements shall be performed to validate the TAS algorithm when the EUT switches between TDD and FDD configurations with different P_{limit} values, both of which should be several dB lower than the corresponding P_{max} values.

4.5.2 Procedure

Step 1: Measure P_{max} , measure P_{limit} for both selected technologies with TDD and FDD.

Step 2: Apply TAS on EUT to initialize time-averaging behavior.

Step 3: Establish radio link with callbox in the selected RAT/band.

Step 4: Request EUT's Tx power at 0 dBm for at least one time window specified for the selected technology/band, then request EUT's Tx power to be at maximum for at least one time window. Switch the radio link to second technology/band selected. For the remaining time, continue callbox requesting EUT's TX power to be at maximum power at least one time window.

Step 5: Convert the measured conducted TX power from Step 4 into normalized rolling time-averaged power (P_{avg}) using equation 1b.

Step 6: Plot results.

- A. Make one power perspective plot containing
 1. Requested power
 2. Measured instantaneous conducted TX power
 3. Power limit P_{limit} in mW
 4. Capable maximum TX power P_{max} in mW
- B. Make one time-averaged validation perspective plot containing
 1. Normalized total rolling power average P_{avg} in mW
 2. Normalized rolling power average P_{avg} in mW for each antenna/technology
 3. Normalized power limit P_{limit} in mW

The validation criteria are, at all times, the normalized total rolling power average P_{avg} does not exceed P_{limit} .

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4.6 Test Configuration and Procedure for Test Case 6: Call Drop via Conducted Power Measurements

4.6.1 Configuration

Conducted power measurements shall be performed to validate the TAS algorithm during dropped connections to ensure the algorithm is able to account for previous connection states.

Only one test is required with one of the configurations for which P_{limit} is below P_{max} .

4.6.2 Procedure

Step 1: Measure P_{max} , measure P_{limit} for the selected technology.

Step 2: Apply TAS on EUT to initialize time-averaging behavior.

Step 3: Establish radio link with callbox in the selected RAT/band.

Step 4: Request EUT's Tx power at 0 dBm for at least one time window specified for the selected technology/band, then drop the call for ~10 seconds. Re-establish another call in the same radio configuration at first link. For the remaining time, continue callbox requesting EUT's Tx power to be at maximum power at least one time window.

Step 5: Convert the measured conducted TX power from Step 4 into rolling time-averaged power (P_{avg}) for the nth step using equation 1a.

Step 6: Plot results.

- A. Make one power perspective plot containing
 1. Requested power
 2. Measured instantaneous conducted TX power
 3. Power limit P_{limit} in mW
 4. Capable maximum TX power P_{max} in mW
- B. Make one time-averaged validation perspective plot containing
 1. Rolling power average P_{avg} in mW
 2. Power limit P_{limit} in mW

The validation criteria are, at all times, the calculated rolling power average P_{avg} does not exceed P_{limit} .

4.7 Technology Specific Validations

4.7.1 ENDC

ENDC operation is validated by performing a single test sequence. A transition is initiated from cellular operation at all down bits/lower power configuration + NR requesting P_{max} to cellular requesting P_{max} + NR requesting P_{max} to cellular

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requesting $P_{max} + NR$ at all down bits / lower power configuration. The configurations and operating states selected for single point SAR measurements shall match those selected for conducted power measurements and for SAR compliance assessment. This requirement facilitates the correlation of the single point SAR results with both the conducted power measurements and the SAR_{target} results in the RF exposure technical brief.

4.7.2 ULCA

ULCA operation is validated by performing a single test sequence. A transition is initiated from PCC at 0dBm + SCC at P_{max} to PCC at $P_{max} + SCC$ at 0dBm to PCC at $P_{max} + SCC$ at P_{max} .

4.8 Test Configuration and Procedure for Test Case 1: Time-varying TX power transmission via Single Point SAR Measurements

4.8.1 Configuration

Single point SAR measurements shall be performed to validate the TAS algorithm; however, compared with the requirements for conducted power measurements, fewer test cases are required:

- Single point SAR measurements need be performed only for changes in requested power.
- To account for linearity, single point SAR measurements shall be performed on each antenna for at least one frequency. If possible, each antenna should be validated using a different frequency.
- Single point SAR measurements shall be performed only for configurations involving a single transmitter.

The configurations and operating states selected for single point SAR measurements shall match those selected for conducted power measurements and for SAR compliance assessment. This requirement facilitates the correlation of the single point SAR results with both the conducted power measurements and the SAR_{target} results in the RF exposure technical brief.

4.8.2 Procedure

Step 1: Perform area scan with DUT set to transmit at a fixed output of P_{limit} , and callbox set to request maximum power for all RATs and selected bands. Measure *pointSAR* at peak location of the area scan. This *pointSAR* value corresponds to *pointSAR* at the measured P_{limit}

Step 2: Apply TAS on EUT to initialize time-averaging behavior.

Step 3: Establish radio link in selected radio configuration.

Step 4: Measure and record *pointSAR* versus time at peak location of the area scan. Configure callbox to request the DUT's Tx power accordingly to pre-defined test sequences.

Step 5: Convert the measured SAR into time-averaged SAR.

Convert the instantaneous measured SAR from Step 4 into 1gSAR value. Perform the running time average to 1gSAR to determine time-averaged value versus time as follows,

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$$1gSAR \text{ or } 10gSAR(t) = \frac{pointSAR(t)}{PointSAR_P_{limit}} * SAR_{target,nom} \quad (2a)$$

Step 6: Plot results.

- A. Make one SAR perspective plot containing
 1. Calculated time-averaged 1gSAR or 10gSAR
 2. $SAR_{target,nom}$ and SAR_{target}
($SAR_{target} = SAR_{target,nom} \times 10^{1dB \text{ uncertainty}/10}$)
 3. FCC limit of 1.6 W/kg (1gSAR) or 4.0 W/kg (10gSAR)
 4. Maximum time-averaged 1gSAR or 10gSAR value
 5. Measured instantaneous single point SAR

Step 7: Repeat steps 2~6 with the pre-defined test sequence 2

Step 8: Repeat steps 2~6 with the pre-defined pseudo-random test sequence

Step 9: Repeat steps 2~6 for all the selected technologies and bands

The validation criteria are, at all times, the calculated time-averaged 1gSAR or 10gSAR versus time shall not exceed SAR_{target}

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5 DYNAMIC BUDGET VALIDATION

This DUT supports dynamic budget sharing for Cellular technologies. The SAR budget for cellular technologies is allocated dynamically over time considering usage statistics and consumed SAR from all active radios. The device total exposure ratio (TER) is always maintained less than 1.

To validate the dynamic budgeting algorithm, the following configurations are applicable:

- 1) Cellular standalone -> Cellular + WLAN -> WLAN standalone
 - a) Pmax will be requested for this test scenario in all operating conditions. The test time for each connection will be sufficient to allow steady state to be reached.
- 2) Sub-6GHz Cellular standalone -> Sub-6GHz Cellular + FR2
 - a) Pseudo-random time-varying TX power will be used for this test scenario to display budget adjustment activity for varying Tx power values. The determination of power values will be outlined in the validation report.
- 3) Dynamic budget mode -> Static budget mode
 - a) This test case will display the transition between a mode that uses the dynamic budget algorithm to a mode that uses a fixed budget implementation.
 - b) Pmax will be requested for this test scenario in all operating conditions. The test time for each connection will be sufficient to allow steady state to be reached.

These cases are validated using log information collected from the application processor (AP). Only validation cases applicable for the device under test will be performed.

5.1.1 Test Exclusion

FR2 is not supported in this DUT, which excludes test case 2 for dynamic budget validation.

5.1.2 Dynamic Budget Validation Test Case

Test cases 1 and 3 reference the continuity assessment listed below in Table 5-1

Table 5-1 TAS Parameters setting for Dynamic Budget Validation Test Case

Test Case Scenario	Technology/Band	Core/Antenna	Plimit[dBm]	Time Window
Dynamic Budget Validation Test	LTE Band 30	Ant 3b	18.20	100s
	LTE Band 30	Ant 3b	18.20	100s
	2.4 GHz Wi-Fi	Core 0 (Ant 3a)	19.50	
	2.4 GHz Wi-Fi	Core 0 (Ant 3a)	19.50	30s

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Test result for Dynamic Budget Validation Test Case

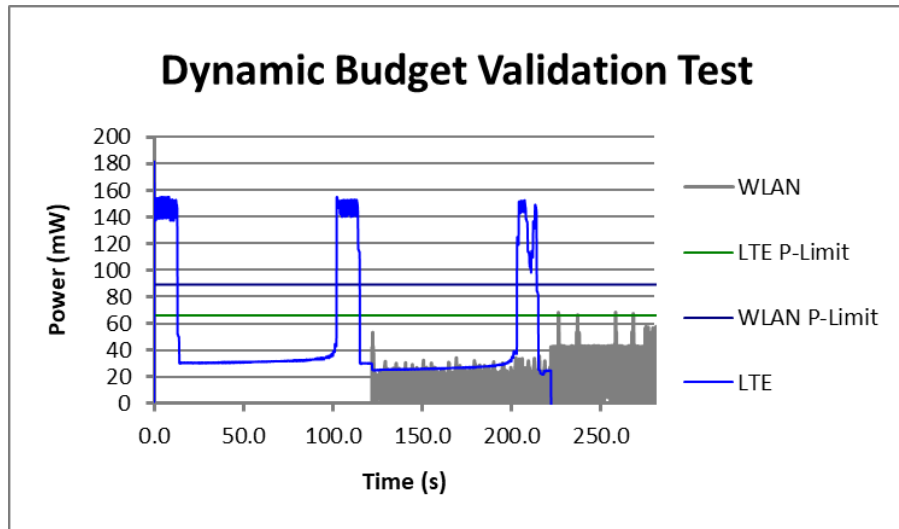


Figure 5-1(a) Dynamic Budget Validation Time-averaged conducted TX power

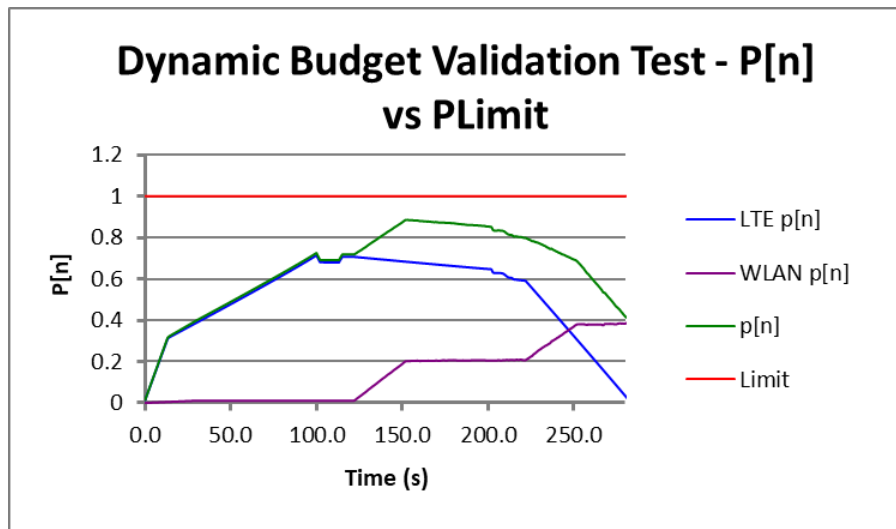


Figure 5-1(b) Dynamic Budget Validation Normalized Time-averaged conducted power

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6 MEASUREMENT TEST SETUP

6.1 Conducted Measurement

LTE test setup

The Rohde & Schwarz CMW500 callbox was used in this test. The test setup schematic is shown in Figure 6-1(a) (Appendix D – Test Setup Photo 1) for measurements with a single antenna of DUT and in Figure 6-1(b) (Appendix D – Test Setup Photo 3) for measurements involving antenna switch. For single antenna measurement, one port (RF1 COM) of the callbox is connected to the RF port of the DUT using a directional coupler. For technology/band switch measurement, one port (RF1 COM) of the callbox used for signaling two different technologies is connected to a combiner, which is in turn connected to a directional coupler. The other end of the directional coupler is connected to a splitter to connect to two RF ports of the DUT corresponding to the two antennas of interest. In the setups, power meter is used to tap the directional coupler for measuring the conducted output power of the DUT. For all conducted tests, only RF1 COM port of the callbox is used to communicate with the DUT.

All the path losses from RF port of DUT to the callbox RF COM port and to the power meter are calibrated and automatically entered as offsets in the callbox and the power meter via test scripts on the PC used to control callbox and power meter

Sub6 NR test setup:

The Keysight UXM 5G callbox was used in this test. The test setup schematic is the same as the LTE Test Setup shown in Figure 6-1(a) (Appendix D – Test Setup Photo 2). One port of the callbox is connected to the RF port of the DUT using a directional coupler. In the setup, the power meter is used to tap the directional coupler for measuring the conducted output power of the DUT.

All the path losses from RF port of DUT to the callbox RF COM port and to the power meter are calibrated and automatically entered as offsets in the callbox and the power meter via test scripts on the PC used to control callbox and power meter.

LTE+Sub6 NR test setup:

LTE conducted port and Sub6 NR conducted port are different on this EUT, therefore, the LTE and Sub6 NR signals for power meter measurement are performed on separate paths as shown below in Figure 6-1(c) (Appendix D – Test Setup Photo 4).

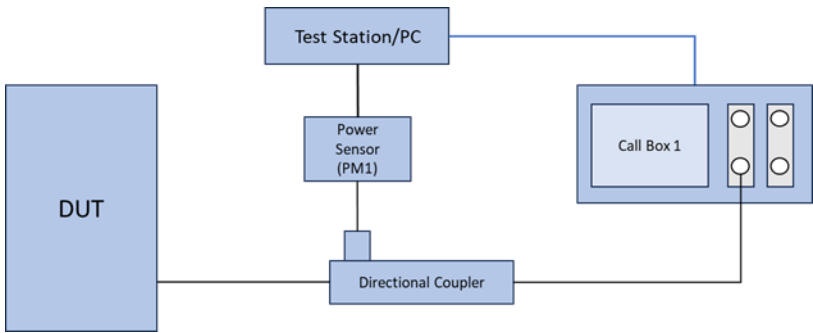
All the path losses from RF port of DUT to the callbox RF COM port and to the power meter are calibrated and automatically entered as offsets in the callbox and the power meter via test scripts on the PC used to control callbox and power meter.

LTE+LTE Inter-band ULCA test setup:

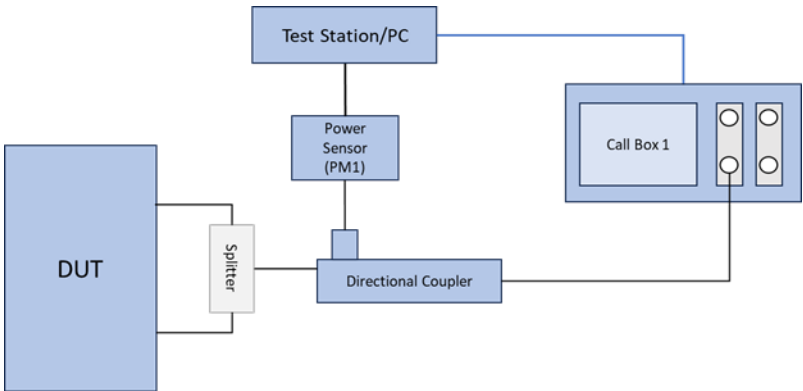
LTE conducted PCC port and LTE conducted SCC conducted port are different on this EUT, therefore, the LTE PCC and LTE SCC signals for power meter measurement are performed on separate paths as shown below in Figure 6-1(d) (Appendix D – Test Setup Photo 5).

All the path losses from RF port of DUT to the callbox RF COM port and to the power meter are calibrated and automatically entered as offsets in the callbox and the power meter via test scripts on the PC used to control callbox and power meter.

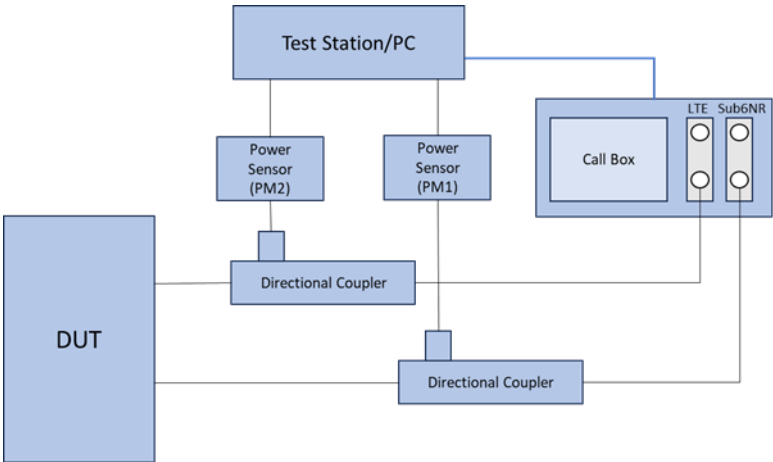
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(a) Appendix D – Test Setup Photo 1 and 2

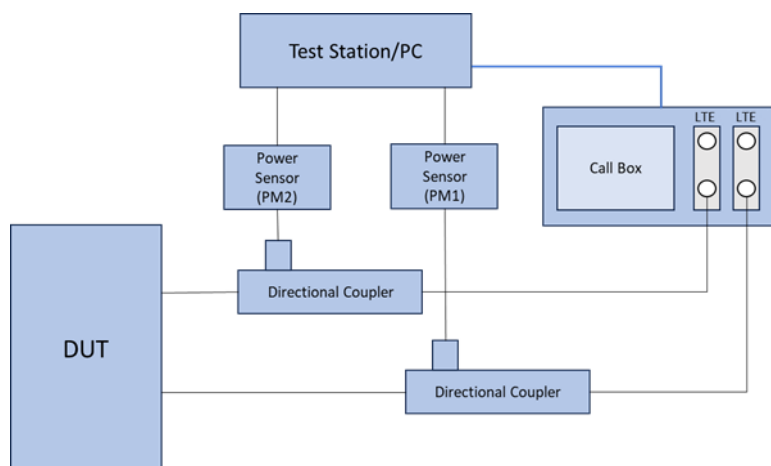


(b) Appendix D – Test Setup Photo 3



(c) Appendix D – Test Setup Photo 4

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(d) Appendix D – Test Setup Photo 5

Figure 6-1
Conducted power measurement setup

Both the callbox and power meter are connected to the PC using ethernet cables. Test scripts are custom made for automation, and the test duration set in the test scripts is 500 seconds.

For time-varying Tx power measurement, the PC runs the 1st test script to send GPIB commands to control the callbox's requested power versus time, while at the same time to record the conducted power measured at DUT RF port using the power meter. The commands sent to the callbox to request power are:

- 0dBm for 100 seconds
- test sequence A, test sequence B, or pseudo-random test sequence (defined in Section 4.1 and generated in Section 4.2.1), for 100 seconds.
- stay at the last power level of test sequence A, test sequence B, or pseudo-random sequence for the remaining time.

Power meter readings are periodically recorded every 100ms. A running average of this measured Tx power over 100 seconds is performed in the post-data processing to determine the 100s-time averaged power.

For call drop, technology/band/antenna switch, and device state switch tests, after the call is established, the callbox is set to request the DUT's Tx power at 0dBm for 100 seconds while simultaneously starting the 2nd test script runs at the same time to start recording the Tx power measured at DUT RF port using the power meter. After the initial 100 seconds since starting the Tx power recording, the callbox is set to request maximum power from the DUT for the rest of the test. Note that the call drop/re-establish, or technology/band/antenna switch or device state switch is manually performed when the Tx power of DUT is at the time-averaged reduced level. See Section 4.2-4.8 for detailed test procedure of call drop test, technology/band/antenna switch test and device state switch test.

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SAR Measurement

The measurement setup is similar to normal SAR measurements as described in the RF Exposure Report. The difference in SAR measurement setup for time averaging feature validation is that the callbox is signaling in close loop power control mode (instead of requesting maximum power in open loop control mode) and callbox is connected to the PC using ethernet so that the test script executed on PC can send commands to control the callbox's requested power over time (test sequence). The same test script used in conducted setup for time-varying Tx power measurements is also used in this section for running the test sequences during SAR measurements, and the recorded values from the disconnected power meter by the test script were discarded.

As mentioned in Section 4.10, for DUT to follow TPC command sent from the callbox wirelessly, the “path loss” between callbox antenna and the DUT needs to be very well calibrated. Since the SAR chamber is in uncontrolled environment, precautions must be taken to minimize the environmental influences on “path loss”.

The DUT is placed in worst-case position according to Table 7-2.

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7 TEST CONFIGURATIONS (FREQ < 6GHZ)

7.1 WWAN Sub6 Transmission

The P_{limit} values for technologies and bands supported by EUT are derived in RF Exposure Validation report Power Level Summary Table and summarized in Table 7-1. Note: all P_{limit} power levels entered in Table 7-1 correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes.

Table 7-1
 P_{limit} and P_{max} for supported technologies and bands

Exposure Scenario:	Ant 1a	Ant 1a Maximum Tune-up Output Power*	Ant 1b	Ant 1b Maximum Tune-up Output Power*	Ant 2	Ant 2 Maximum Tune-up Output Power*	Ant 3a	Ant 3a Maximum Tune-up Output Power*	Ant 3b	Ant 3b Maximum Tune-up Output Power*	Ant 4	Ant 4 Maximum Tune-up Output Power*
Averaging Volume:	1g		1g		1g		1g		1g		1g	
Test Distance:	5 mm		5 mm		5 mm		5 mm		5 mm		5 mm	
OBD:	1, Body		1, Body		1, Body		1, Body		1, Body		1, Body	
Technology/Band	P_{limit} (Inclusive of Total Device Uncertainty)	P_{max} (Max Allowed Power)	P_{limit} (Inclusive of Total Device Uncertainty)	P_{max} (Max Allowed Power)	P_{limit} (Inclusive of Total Device Uncertainty)	P_{max} (Max Allowed Power)	P_{limit} (Inclusive of Total Device Uncertainty)	P_{max} (Max Allowed Power)	P_{limit} (Inclusive of Total Device Uncertainty)	P_{max} (Max Allowed Power)	P_{limit} (Inclusive of Total Device Uncertainty)	P_{max} (Max Allowed Power)
UMTS 850	N/A	N/A	N/A	N/A	24.80	25.20	N/A	N/A	N/A	N/A	24.50	25.70
UMTS 1750	N/A	N/A	19.60	25.70	16.80	25.70	N/A	N/A	19.30	25.70	15.80	25.70
UMTS 1900	N/A	N/A	18.70	24.70	17.30	25.20	N/A	N/A	19.10	25.70	16.50	25.70
LTE Band 71	N/A	N/A	N/A	N/A	25.00	25.20	N/A	N/A	N/A	N/A	25.50	25.70
LTE Band 12	N/A	N/A	N/A	N/A	25.00	25.20	N/A	N/A	N/A	N/A	25.20	25.70
LTE Band 17	N/A	N/A	N/A	N/A	25.00	25.20	N/A	N/A	N/A	N/A	25.20	25.70
LTE Band 13	N/A	N/A	N/A	N/A	25.10	25.20	N/A	N/A	N/A	N/A	25.30	25.70
LTE Band 14	N/A	N/A	N/A	N/A	25.10	25.20	N/A	N/A	N/A	N/A	25.30	25.70
LTE Band 26	N/A	N/A	N/A	N/A	24.80	25.20	N/A	N/A	N/A	N/A	24.50	25.70
LTE Band 5	N/A	N/A	N/A	N/A	24.80	25.20	N/A	N/A	N/A	N/A	24.50	25.70
LTE Band 5 ULCA	N/A	N/A	N/A	N/A	24.80	25.20	N/A	N/A	N/A	N/A	24.50	25.70
LTE Band 4	N/A	N/A	19.60	25.70	16.80	25.70	N/A	N/A	19.30	25.70	15.80	25.70
LTE Band 66	N/A	N/A	19.60	25.70	16.80	25.70	N/A	N/A	19.30	25.70	15.80	25.70
LTE Band 2	N/A	N/A	18.70	24.70	17.30	25.20	N/A	N/A	19.10	25.70	16.50	25.70
LTE Band 25	N/A	N/A	18.70	24.70	17.30	25.20	N/A	N/A	19.10	25.70	16.50	25.70
LTE Band 30	N/A	N/A	20.50	24.20	19.70	23.10	N/A	N/A	19.20	23.60	20.20	21.70
LTE Band 7	N/A	N/A	20.30	24.20	18.70	24.70	N/A	N/A	19.30	25.20	19.80	25.70
LTE Band 7 ULCA	N/A	N/A	20.30	24.20	18.70	24.70	N/A	N/A	19.30	25.20	19.80	25.70
LTE Band 41 (PC3)	N/A	N/A	19.30	23.70	19.70	23.70	N/A	N/A	19.50	23.70	19.20	23.70
LTE Band 41 (PC3) ULCA	N/A	N/A	19.30	23.70	19.70	23.70	N/A	N/A	19.50	23.70	19.20	23.70
LTE Band 41 (PC2)	N/A	N/A	19.30	25.10	19.70	25.10	N/A	N/A	19.50	24.60	19.20	25.10
LTE Band 41 (PC2) ULCA	N/A	N/A	19.30	24.60	19.70	25.10	N/A	N/A	19.50	24.10	19.20	25.10
LTE Band 48	21.00	21.50	N/A	N/A	17.20	17.20	19.10	19.10	N/A	N/A	19.00	19.00
LTE Band 48 ULCA	21.00	21.50	N/A	N/A	17.20	17.20	19.10	19.10	N/A	N/A	19.00	19.00
NR Band n71	N/A	N/A	N/A	N/A	25.00	25.20	N/A	N/A	N/A	N/A	25.50	25.70
NR Band n12	N/A	N/A	N/A	N/A	25.00	25.20	N/A	N/A	N/A	N/A	25.20	25.70
NR Band n14	N/A	N/A	N/A	N/A	25.10	25.20	N/A	N/A	N/A	N/A	25.30	25.70
NR Band n26	N/A	N/A	N/A	N/A	24.80	25.20	N/A	N/A	N/A	N/A	24.50	25.70
NR Band n5	N/A	N/A	N/A	N/A	24.80	25.20	N/A	N/A	N/A	N/A	24.50	25.70
NR Band n70	N/A	N/A	20.20	25.70	18.50	25.70	N/A	N/A	19.30	25.70	16.90	25.30
NR Band n66	N/A	N/A	19.60	25.70	16.80	25.70	N/A	N/A	19.30	25.70	15.80	25.70
NR Band n2	N/A	N/A	18.70	24.70	17.30	25.20	N/A	N/A	19.10	25.70	16.50	25.70
NR Band n25	N/A	N/A	18.70	24.70	17.30	25.20	N/A	N/A	19.10	25.70	16.50	25.70
NR Band n30	N/A	N/A	20.50	24.20	19.70	23.10	N/A	N/A	19.20	23.60	20.20	21.70
NR Band n7	N/A	N/A	20.30	24.20	18.70	24.70	N/A	N/A	19.30	25.20	19.80	25.70
NR Band n41 (PC3)	N/A	N/A	19.30	25.70	19.70	25.70	N/A	N/A	19.50	25.70	19.20	25.70
NR Band n43 (PC2)	N/A	N/A	19.30	28.70	19.70	28.70	N/A	N/A	19.50	28.20	19.20	28.70
NR Band n48	21.00	23.50	N/A	N/A	17.20	19.20	19.10	21.10	N/A	N/A	19.00	21.00
NR Band n77 DoD (PC3) - [Ch. 633334]	21.00	26.00	N/A	N/A	18.70	26.00	18.20	26.00	N/A	N/A	19.70	26.00
NR Band n77 DoD (PC2) - [Ch. 633334]	21.00	26.50	N/A	N/A	18.70	26.00	18.20	27.60	N/A	N/A	19.70	27.50
NR Band n77 (PC3) - [Ch. 650000]	21.00	26.00	N/A	N/A	18.60	26.00	19.30	26.00	N/A	N/A	19.30	26.00
NR Band n77 (PC2) - [Ch. 650000]	21.00	26.50	N/A	N/A	18.60	26.00	19.30	27.60	N/A	N/A	19.30	27.50
NR Band n77 (PC3) - [Ch. 662000]	19.60	26.00	N/A	N/A	18.50	26.00	18.10	26.00	N/A	N/A	19.90	26.00
NR Band n77 (PC2) - [Ch. 662000]	19.60	26.50	N/A	N/A	18.50	26.00	18.10	27.60	N/A	N/A	19.90	27.50

Note all P_{limit} and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (for e.g., LTE TDD).

Note: The target powers listed in Table 7-1 for Plim account for the total device uncertainty, while the P_{max} values include the specified tolerance.

The selected technologies/bands for testing time-varying test sequences are highlighted in yellow in Table 7-1.

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The radio configurations used in time-averaged SAR validation test for selected technologies, bands, and antennas and the corresponding worst-case radio configuration 1gSAR values for selected technology/band/device state are listed in Table 7-2.

The P_{limit} for all the selected radio configurations are listed in below Table 7-2. P_{max} was also used for radio configurations selected for testing time-varying Tx power transmission scenarios in order to generate test sequences following the test procedures in Section 4.1.

Test Case #	Test Scenario	Tech	Band	Antenna	OPS	Channel	Frequency [MHz]	Test Configurations	SAR Exposure Scenario	RF Exposure Worst Case Measured SAR at Plimit [W/kg]	Plimit [dBm]	Pmax [dBm]
1a	Time-varying Tx Power: Sequence A	LTE FDD	66	4	1	132322	1745.0	QPSK 1/50/20 MHz BW	Top Edge, 5mm	0.927	15.8	25.7
1b	Time-varying Tx Power: Sequence B	WCDMA	4	4	1	1412	1732.4	RMC -	Top Edge, 5mm	0.908	15.8	25.7
		LTE FDD	66	4	1	132322	1745.0	QPSK 1/50/20 MHz BW	Top Edge, 5mm	0.927	15.8	25.7
		LTE TDD	41 PC3	3b	1	40620	2593.0	QPSK 1/50/20 MHz BW	Top Edge, 5mm	0.939	21.5	25.7
		NR FR1 FDD	n25 / SA	2	1	376500	1882.5	DFT-S-OFDM, QPSK 1/1/40 MHz BW	Bottom Edge, 5mm	1.010	17.3	25.2
		NR FR1 TDD	n77 PC3 / SA	1a	1	633334	3500.0	DFT-S-OFDM, QPSK 1/1/100 MHz BW	Left Edge, 5mm	0.978	23.0	26.0
1c	Time-varying Tx Power: Pseudo-Random Sequence	LTE FDD	66	4	1	132322	1745.0	QPSK 1/50/20 MHz BW	Top Edge, 5mm	0.927	15.8	25.7
2	Antenna Switching	LTE	25	3b	1	26365	1882.5	QPSK 1/50/20 MHz BW	Top Edge, 5mm	0.855	19.1	25.7
			66	4	1	132322	1745.0	QPSK 1/50/20 MHz BW	Top Edge, 5mm	0.927	15.8	25.7
3	Change in Band/Frequency	LTE	7	4	1	21100	2535.0	QPSK 1/50/20 MHz BW	Back Side, 5mm	0.902	19.8	25.7
			66		1	132322	1745.0	QPSK 1/50/20 MHz BW	Top Edge, 5mm	0.927	15.8	25.7
4	Change in Technology	LTE	7	4	1	21350	2560.0	QPSK 1/50/20 MHz BW	Back Side, 5mm	0.902	19.8	25.7
		WCDMA	4		1	1412	1732.4	RMC -	Top Edge, 5mm	0.908	15.8	25.7
5	TDD/FDD Switch	LTE TDD	41 PC3	4	1	40620	2593.0	QPSK 1/50/20 MHz BW	Top Edge, 5mm	1.040	21.2	25.7
		LTE FDD	66		1	132322	1745.0	QPSK 1/50/20 MHz BW	Top Edge, 5mm	0.927	15.8	25.7
6	Call Drop	LTE FDD	30	3b	1	27710	2310.0	QPSK 1/25/10 MHz BW	Back Side, 5mm	0.975	18.2	23.6
7	Time-varying Tx Power: EN-DC Same Time Window	LTE	5	4	1	20525	836.5	QPSK 1/25/10 MHz BW	Back Side, 5mm	0.882	24.5	25.7
		NR FR1	n66 NSA	3b	1	349000	1745.0	DFT-S-OFDM, QPSK 1/1/40 MHz BW	Top Edge, 5mm	0.784	19.3	25.7
8	Time-varying Tx Power: Inter-Band ULCA	LTE PCC	5	4	1	20525	836.5	QPSK 1/25/10 MHz BW	Back Side, 5mm	0.882	24.5	25.7
		LTE SCC	2	3b	1	18900	1880.0	QPSK 1/50/20 MHz BW	Top Edge, 5mm	0.845	19.1	25.7

Table 7-2
Radio configurations selected for TAS Validation test

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8 CONDUCTED TX CASES

8.1 Scenario 1: Change in Requested Power

In this scenario, the TAS algorithm is tested under dynamic power test sequences. The test sequences A, B, and Pseudo-Random are shown and tabulated in Appendix E. All of the test cases for this scenario are relegated in Table 7-2, and the test procedure follows section 4.1.2. The measurement setup is shown in Figure 6-1. The following details will demonstrate case-by-case to show how the TAS algorithm behaves for each RAT.

The test case for 3G WCDMA are conducted under WCDMA Band 4, the test cases for 4G LTE are conducted under LTE bands B66 and B41, and the test cases for 5G NR are conducted under NR bands n25 and n77. The corresponding detailed test procedure is described in section 4.1.2. For the figure set of each case, the first figure demonstrates the DUT's instantaneous conducted TX power, the requested power over time, P_{limit} and P_{max} . The second figure illustrates the corresponding rolling average power over time. For all test cases, the time-averaged SAR does not exceed the FCC limit.

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WCDMA Band 4, Antenna 4

Test result for Test Sequence B

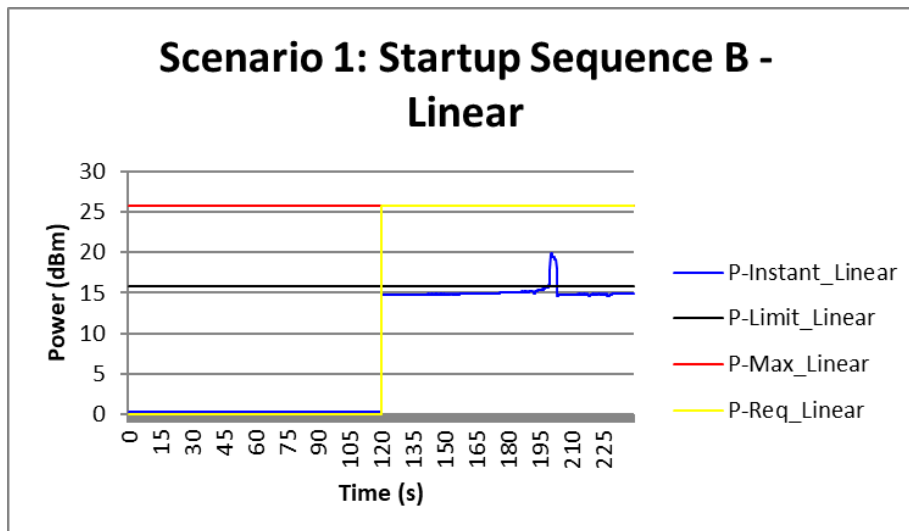


Figure 8-1: Time-averaged conducted TX power over time for Changes in Power case (WCDMA Band 4 Ant 4 – Test Sequence B)

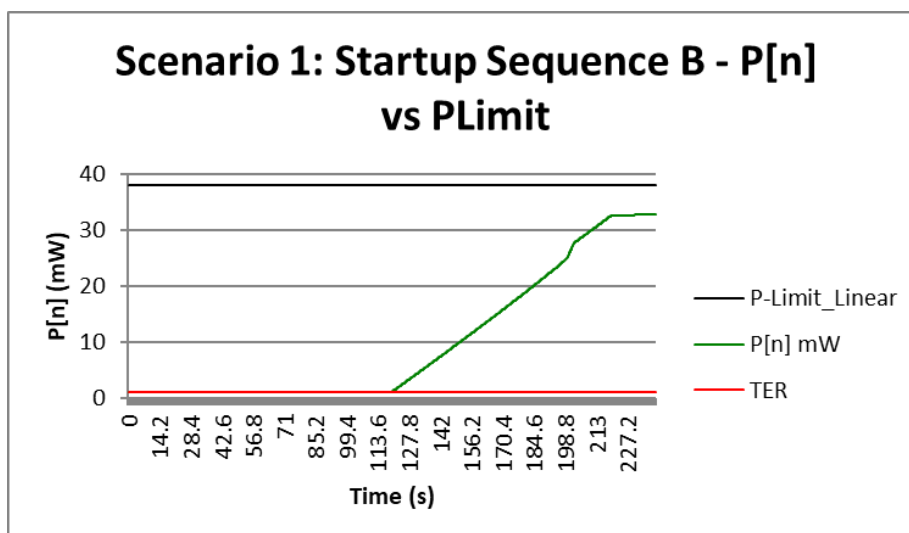


Figure 8-2: Time-averaged Power for Changes in Power case (WCDMA Band 4 Ant 4 – Test Sequence B)

Plimit (Plimit,nom with uncertainty)	38.02 mW
Max P[n]	32.86 mW
Validation: $P[n] \leq P_{limit}$ for all n, that is for every time step associated with the test	

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LTE Band 66, Antenna 4

Test result for Test Sequence A

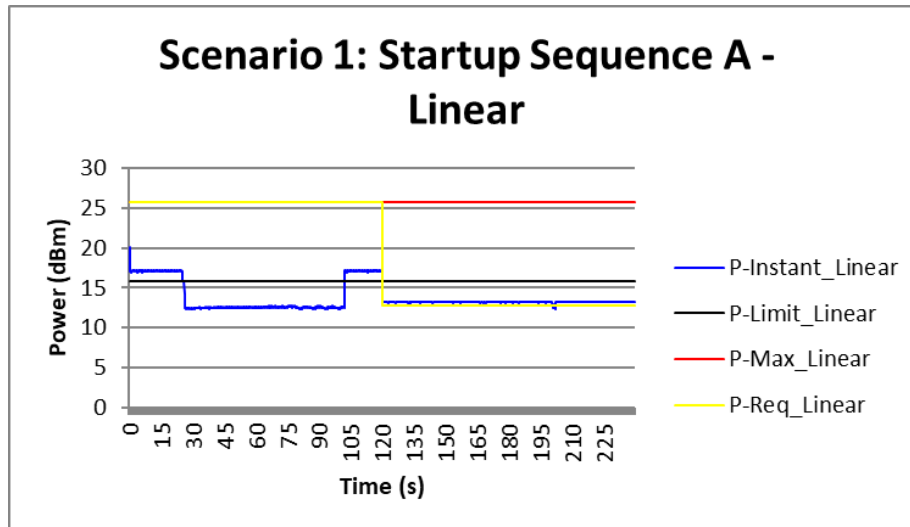


Figure 8-3: Time-averaged conducted TX power over time for Changes in Power case (LTE Band 66 Ant 4 – Test Sequence A)

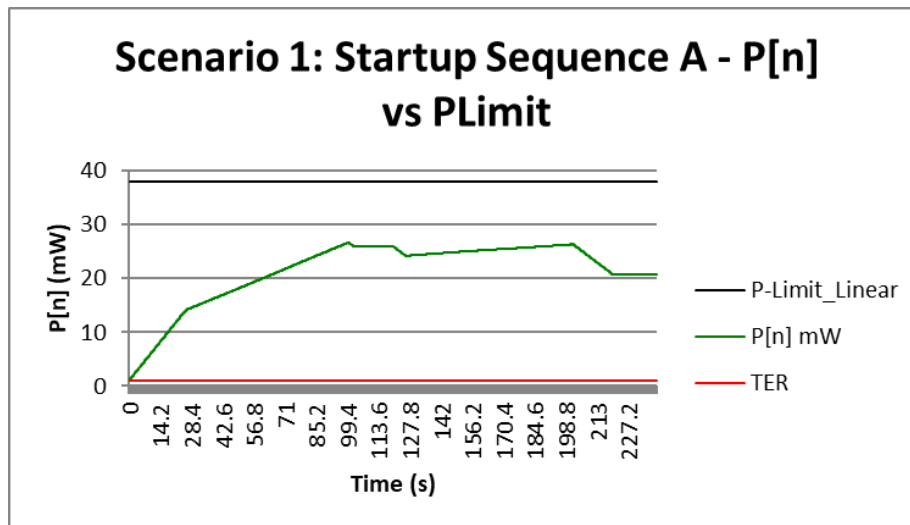


Figure 8-4: Time-averaged Power for Changes in Power case (LTE Band 66 Ant 4 – Test Sequence A)

Plimit (Plimit,nom with uncertainty)	38.02 mW
Max P[n]	26.74 mW
Validation: $P[n] \leq P_{limit}$ for all n, that is for every time step associated with the test	

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Test result for Test Sequence B

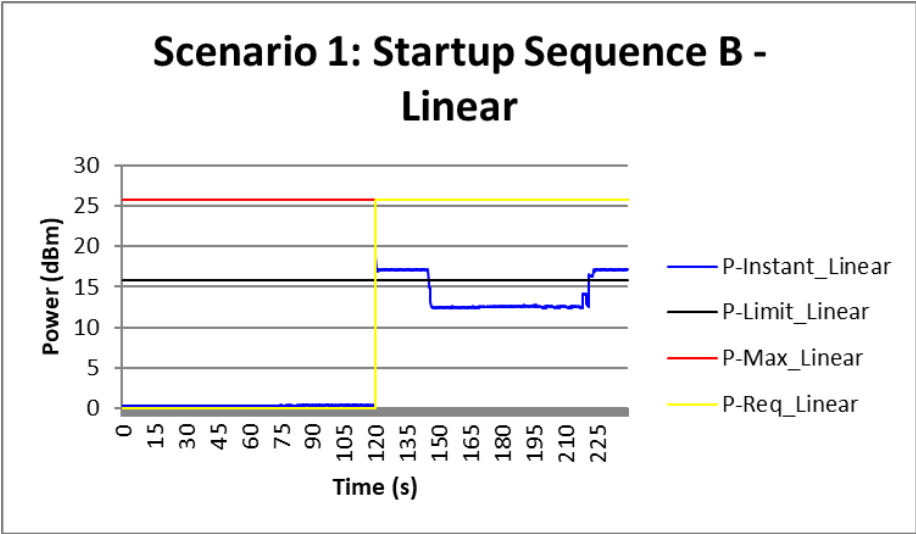


Figure 8-5: Time-averaged conducted TX power over time for Changes in Power case (LTE Band 66 Ant 4 – Test Sequence B)

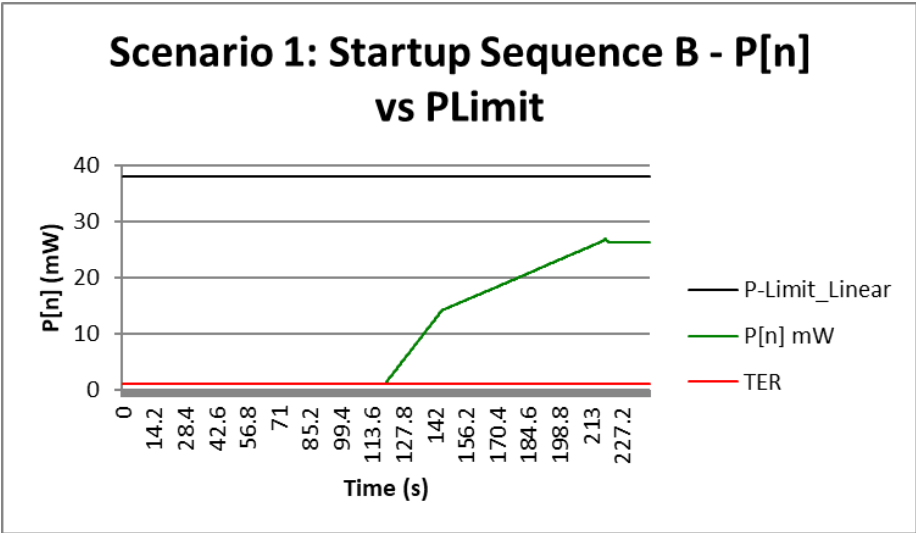


Figure 8-6: Time-averaged Power for Changes in Power case (LTE Band 66 Ant 4 – Test Sequence B)

Plimit (Plimit,nom with uncertainty)	38.02 mW
Max P[n]	26.93 mW
Validation: $P[n] \leq P_{limit}$ for all n, that is for every time step associated with the test	

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Test result for Pseudo-Random Test Sequence

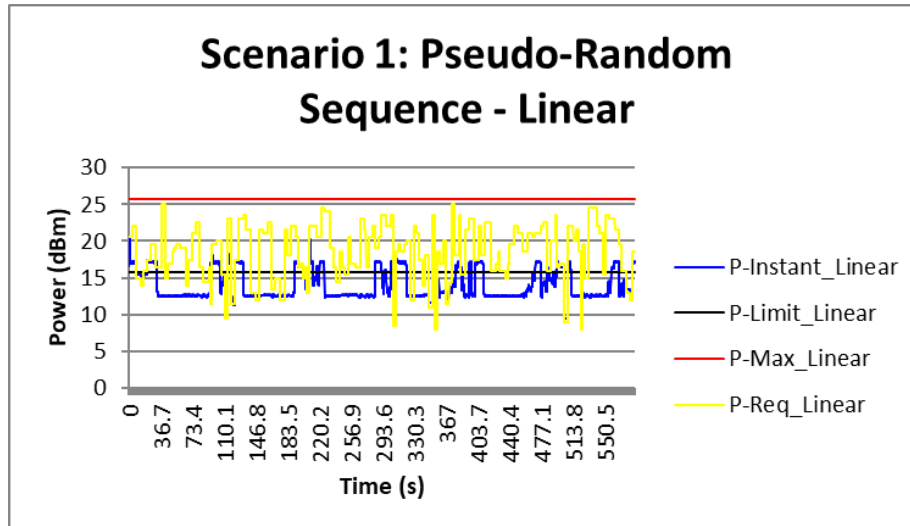


Figure 8-7: Time-averaged conducted TX power over time for Changes in Power case (LTE Band 66 Ant 4 – Pseudo-Random Test Sequence)

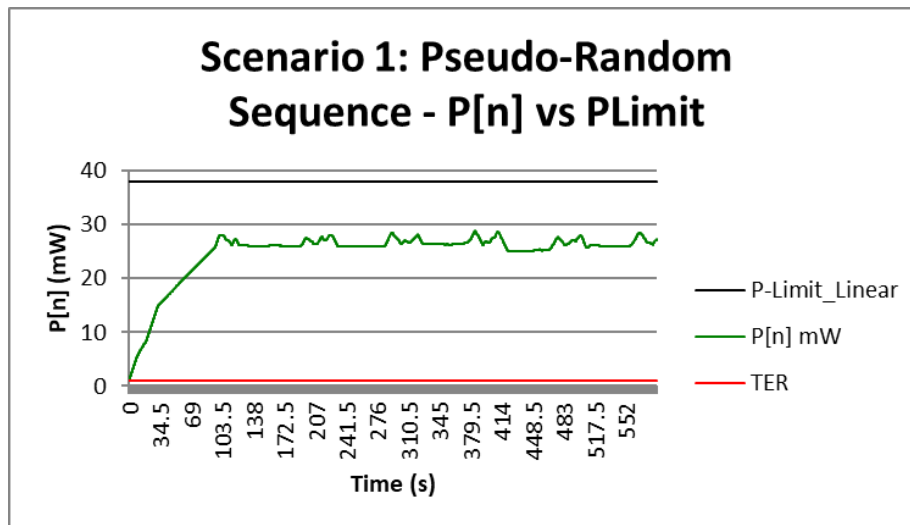


Figure 8-8: Time-averaged Power for Changes in Power case (LTE Band 66 Ant 4 – Pseudo-Random Test Sequence)

Plimit (Plimit,nom with uncertainty)	38.02 mW
Max P[n]	28.83 mW
Validation: $P[n] \leq P_{limit}$ for all n , that is for every time step associated with the test	

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LTE Band 41, Antenna 3b

Test result for Test Sequence B

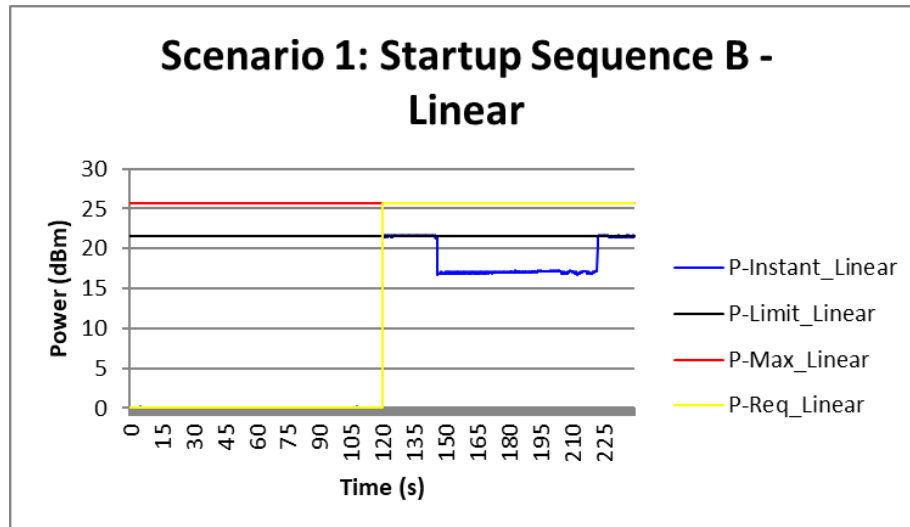


Figure 8-9: Time-averaged conducted TX power over time for Changes in Power case (LTE Band 41 Ant 3b – Test Sequence B)

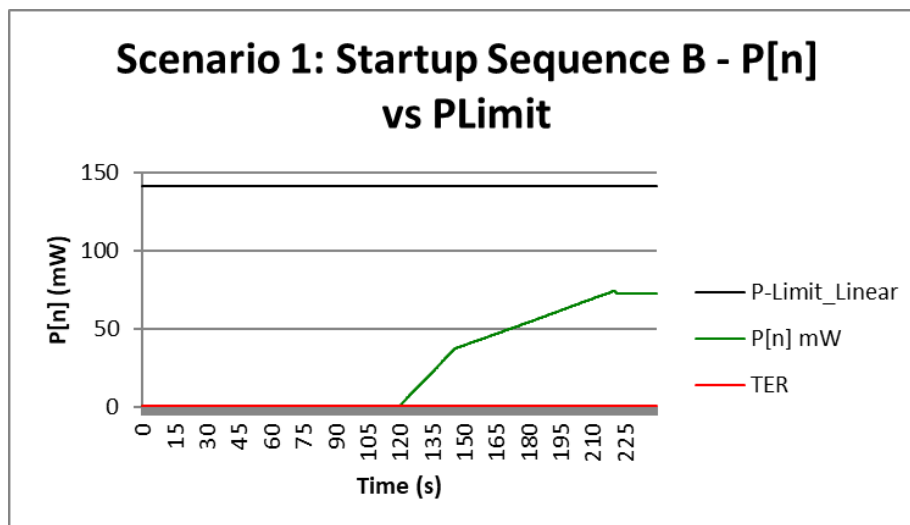


Figure 8-10: Time-averaged Power for Changes in Power case (LTE Band 41 Ant 3b – Test Sequence B)

Plimit (Plimit,nom with uncertainty)	141.25 mW
Max P[n]	74.39 mW
Validation: $P[n] \leq P_{limit}$ for all n, that is for every time step associated with the test	

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NR n25 SA, Antenna 2

Test result for Test Sequence B

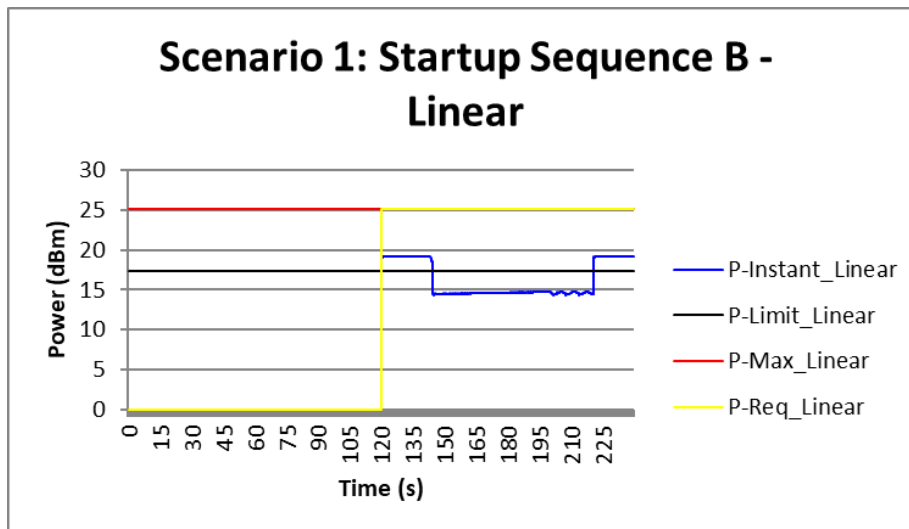


Figure 8-11: Time-averaged conducted TX power over time for Changes in Power case (NR n25 SA Ant 2 – Test Sequence B)

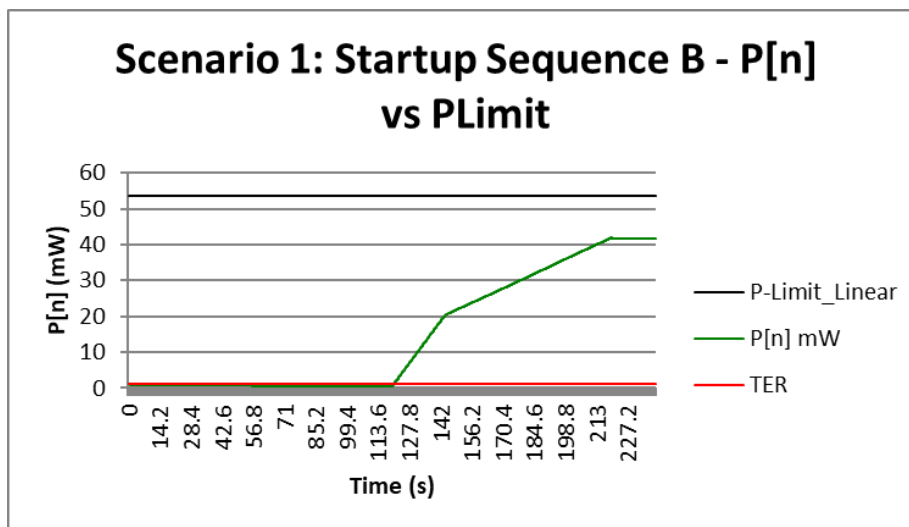


Figure 8-12: Time-averaged Power for Changes in Power case (NR n25 SA Ant 2 – Test Sequence B)

Plimit (Plimit,nom with uncertainty)	53.70 mW
Max P[n]	41.97 mW
Validation: $P[n] \leq P_{limit}$ for all n, that is for every time step associated with the test	

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NR n77 SA, Antenna 1a

Test result for Test Sequence B

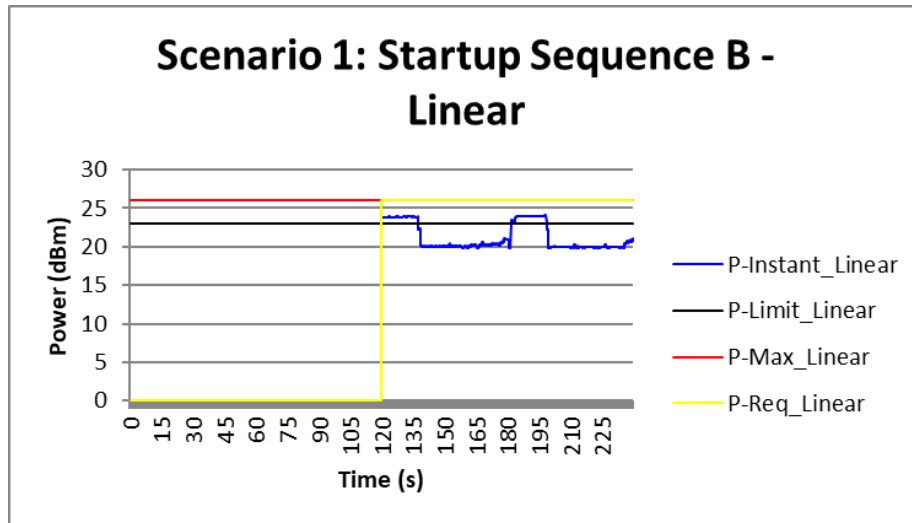


Figure 8-13: Time-averaged conducted TX power over time for Changes in Power case (NR n77 SA Ant 1a – Test Sequence B)

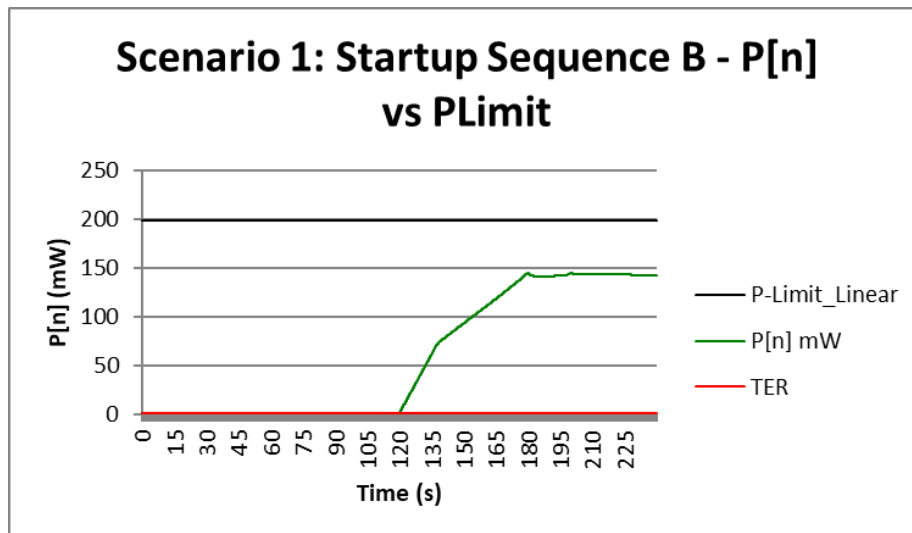


Figure 8-14: Time-averaged Power for Changes in Power case (NR n77 SA Ant 1a – Test Sequence B)

Plimit (Plimit,nom with uncertainty)	199.53 mW
Max P[n]	145.55 mW
Validation: $P[n] \leq P_{limit}$ for all n, that is for every time step associated with the test	

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8.2 Scenario 2: Antenna Switching

In this scenario, maximum TX power is requested by a call box for each RAT, and the antenna change at the EUT side is manually configured at a specific time instance. The test case for this scenario is relegated in Table 7-2, and the test procedure follows section 4.2.2. The measurement setup is shown in Figure 6-1.

This test aims to validate the TAS algorithm with antenna change during the test period for 4G LTE Band 25 Ant 3b to LTE Band 66 Ant 4. The corresponding detailed test procedure is described in section 4.2.2. Figure 8-15 demonstrates the DUT’s instantaneous conducted TX power, the requested power over time, P_{limit} and P_{max} . During the test period, the antenna change event is configured to switch at the time instance 120 seconds. The change is from Ant 3b to Ant 4 and maximum power is requested for the remainder of the test. It is observed in the figure that the rolling power average of the individual RAT is below its own P_{limit} . Figure 8-16 illustrates the corresponding normalized total rolling power average over time by using the equation listed in section 4.1. As seen in this figure, the total normalized rolling power average does not exceed the normalized P_{limit} .

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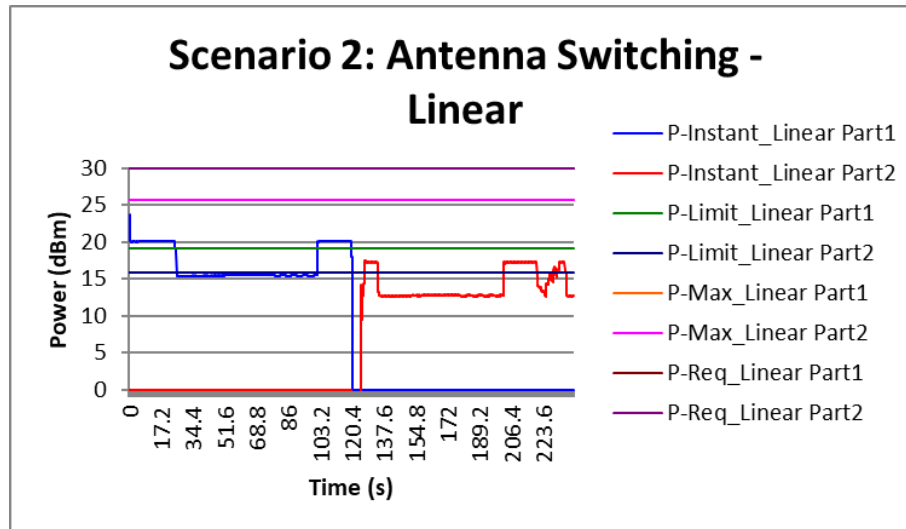


Figure 8-15: Time-averaged conducted TX power over time for Antenna Switch case (LTE Band 25 Ant 3b – Part 1 to LTE Band 66 Ant 4 – Part 2)

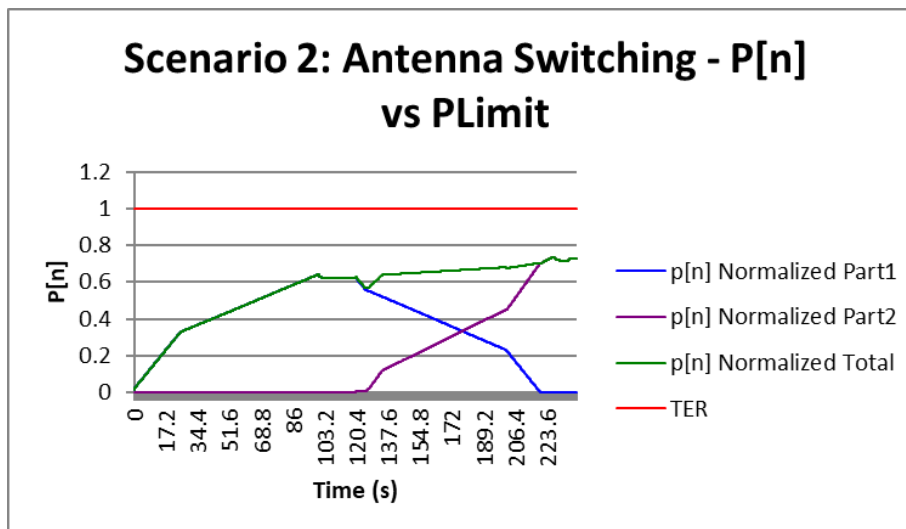


Figure 8-16: Normalized Time-averaged Power for Antenna Switch case (LTE Band 25 Ant 3b – Part 1 to LTE Band 66 Ant 4 – Part 2)

Normalized P_{limit}	1.00
Highest normalized P_{avg}	0.733
Validation result: Pass	

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8.3 Scenario 3: Change in Band/Frequency

In this scenario, maximum TX power is requested by a call box for each RAT, and the change in band is manually configured at a specific time instance. The test case covers change in band scenario between two frequencies. The test case for this scenario is relegated in Table 7-2, and the test procedure follows section 4.3.2. The measurement setup is shown in Figure 6-1.

This test aims to validate the TAS algorithm with band change from 4G LTE Band 7 Ant 4 to LTE Band 66 Ant 4. The corresponding detailed test procedure is described in section 4.3.2. Figure 8-17 demonstrates the DUT's instantaneous conducted TX power, the requested power over time, P_{limit} and P_{max} . The hand-off is configured at the time instance of 120 seconds. It is observed in the figure that the rolling power average of the individual RAT is below its own P_{limit} . Figure 8-18 illustrates the corresponding normalized total rolling power average over time by using the equation listed in section 4.1. As seen in this figure, the total normalized rolling power average does not exceed the normalized P_{limit} .

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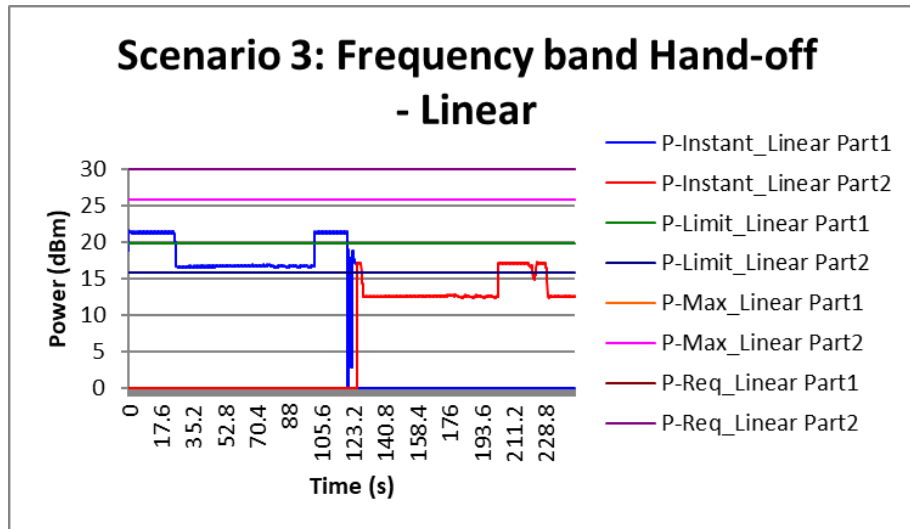


Figure 8-17: Time-averaged conducted TX power over time for Change in Band case (LTE Band 7 Ant 4 – Part 1 to LTE Band 66 Ant 4 – Part 2)

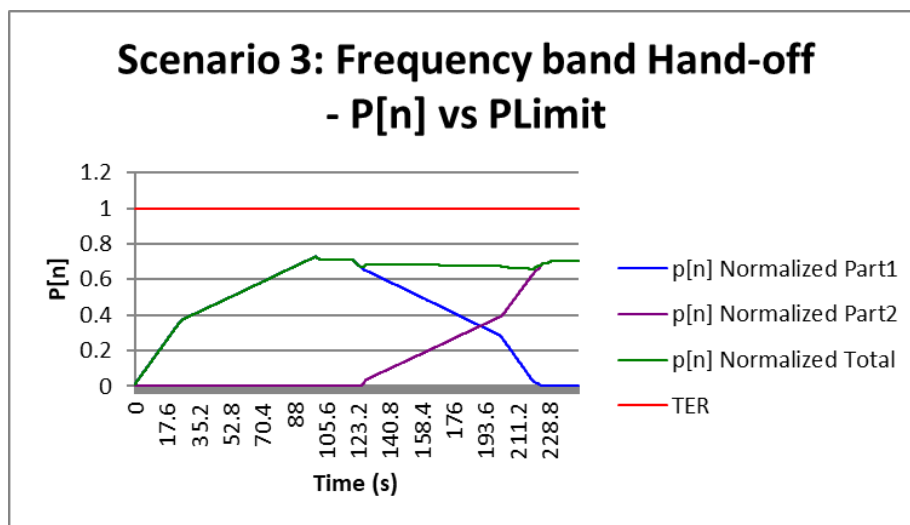


Figure 8-18: Normalized Time-averaged Power for Change in Band case (LTE Band 7 Ant 4 – Part 1 to LTE Band 66 Ant 4 – Part 2)

Normalized P_{limit}	1.00
Highest normalized P_{avg}	0.729
Validation result: Pass	

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8.4 Scenario 4: Change in Technology

In this scenario, maximum TX power is requested by a call box for each RAT, and the change in technology is manually configured at a specific time instance. The test case for this scenario is relegated in Table 7-2, and the test procedure follows section 4.4.2. The measurement setup is shown in Figure 6-1.

This test aims to validate the TAS algorithm with change in technology during the test period from 4G LTE Band 7 Ant 4 to WCMDA Band 4 Ant 4. The corresponding detailed test procedure is described in section 4.4.2. Figure 8-19 demonstrates the DUT's instantaneous conducted TX power, the requested power over time, P_{limit} and P_{max} . The hand-off is configured at the time instance of 120 seconds. It is observed in the figure that the rolling power average of the individual RAT is below its own P_{limit} . Figure 8-20 illustrates the corresponding normalized total rolling power average over time by using the equation listed in section 4.1. As seen in this figure, the total normalized rolling power average does not exceed the normalized P_{limit} .

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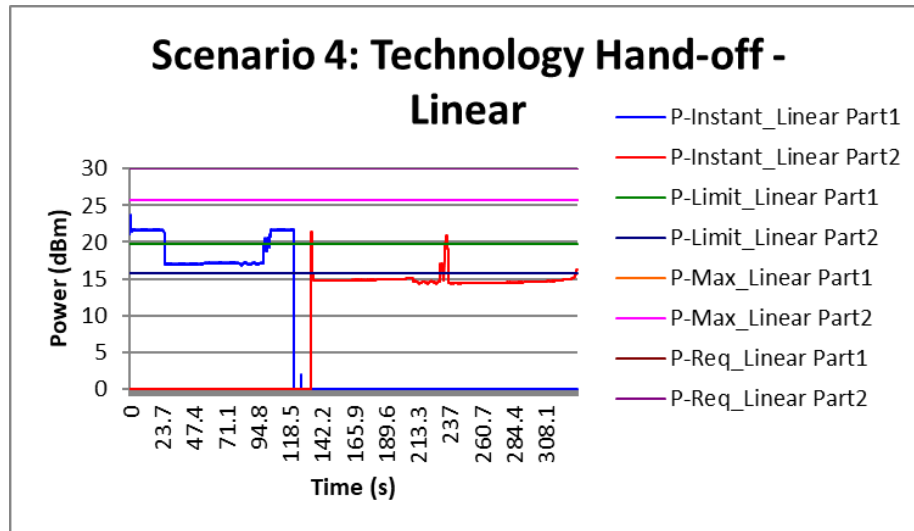


Figure 8-19: Time-averaged conducted TX power over time for Technology Hand-Off case (LTE Band 7 Ant 4 – Part 1 to WCDMA Band 4 Ant 4 – Part 2)

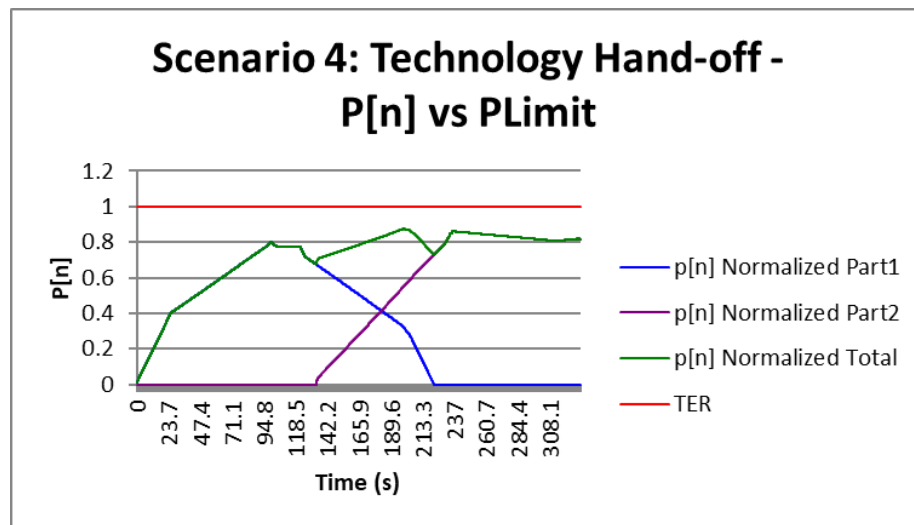


Figure 8-20: Normalized Time-averaged Power for Technology Hand-Off case (LTE Band 7 Ant 4 – Part 1 to WCDMA Band 4 Ant 4 – Part 2)

Normalized P_{limit}	1.00
Highest normalized P_{avg}	0.875
Validation result: Pass	

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8.5 Scenario 5: TDD/FDD Switch

In this scenario, maximum TX power is requested by a call box for each RAT , and FDD to TDD switching at the EUT side is manually configured at a specific time instance. The test case for this scenario is relegated in Table 7-2, and the test procedure follows section 4.5.2. The measurement setup is shown in Figure 6-1.

This test aims to validate the TAS algorithm with TDD to FDD switching during the test period from 4G LTE Band 41 PC3 Ant 4 to LTE Band 66 Ant 4. The corresponding detailed test procedure is described in section 4.5.2. Figure 8-21 demonstrates the DUT's instantaneous conducted TX power, the requested power over time, P_{limit} and P_{max} . The hand-off is configured at the time instance of 120 seconds. It is observed in the figure that the rolling power average of the individual RAT is below its own P_{limit} . Figure 8-22 illustrates the corresponding normalized total rolling power average over time by using the equation listed in section 4.1. As seen in this figure, the total normalized rolling power average does not exceed the normalized P_{limit} .

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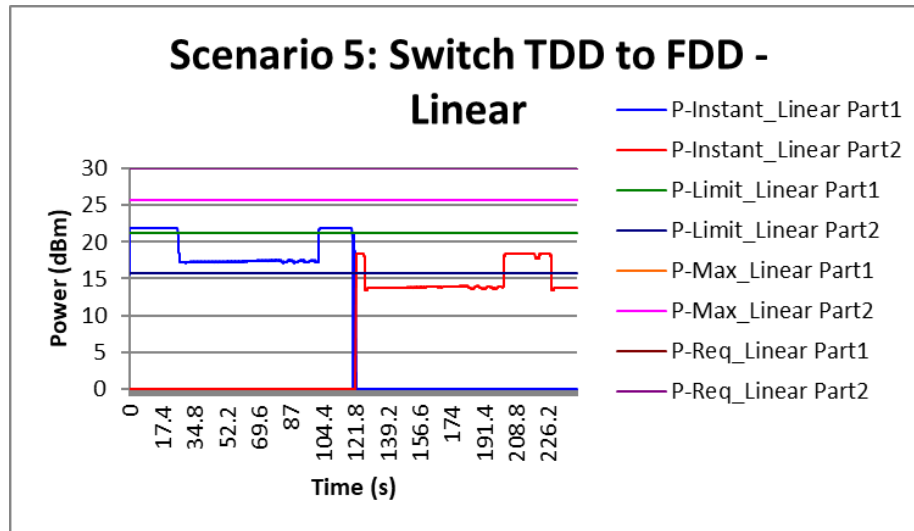


Figure 8-21: Time-averaged conducted TX power over time for TDD/FDD Switch case (LTE Band 41 PC3 Ant 4 – Part 1 to LTE Band 66 Ant 4 – Part 2)

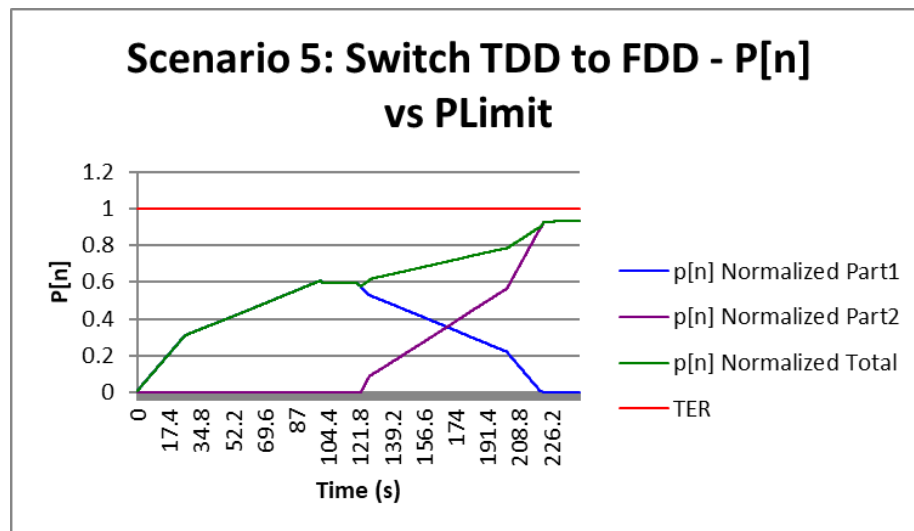


Figure 8-22: Normalized Time-averaged Power for TDD/FDD Switch case (LTE Band 41 PC3 Ant 4 – Part 1 to LTE Band 66 Ant 4 – Part 2)

Normalized P_{limit}	1.00
Highest normalized P_{avg}	0.935
Validation result: Pass	

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8.6 Scenario 6: Call Drop

In this scenario, maximum TX power is requested by a call box for each RAT , and call drop at the EUT side is manually configured at a specific time instance. The test case for this scenario is relegated in Table 7-2, and the test procedure follows section 4.6.2. The measurement setup is shown in Figure 6-1.

This test aims to validate the TA-SAR algorithm with call disconnection during the test period from 4G LTE Band 30 Ant 3b. The corresponding detailed test procedure is described in section 4.6.2. Figure 8-23 demonstrates the DUT’s instantaneous conducted TX power, the requested power over time, P_{limit} and P_{max} . The call disconnection is configured at the time instance of 120 seconds and is configured to re-establish connection after 10 seconds. It is observed in the figure that the rolling power average of the individual RAT is below its own P_{limit} . Figure 8-24 illustrates the corresponding calculated rolling power average over time by using the equation listed in section 4.1. As seen in this figure, the calculated rolling power average does not exceed the normalized P_{limit} .

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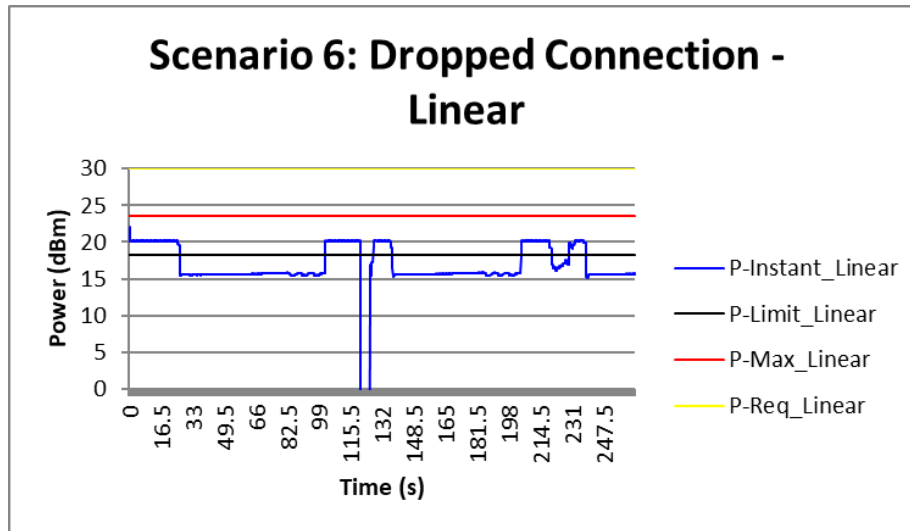


Figure 8-23: Time-averaged conducted TX power over time for Call Disconnection case (LTE Band 30 Ant 3b)

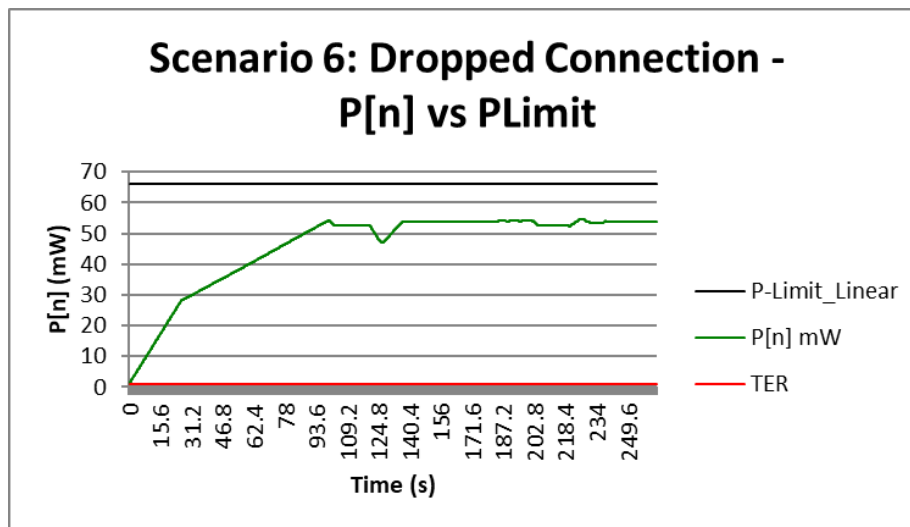


Figure 8-24: Normalized Time-averaged Power for Call Disconnection case (LTE Band 30 Ant 3b)

Plimit (Plimit,nom with uncertainty)	66.07 mW
Max P[n]	54.66 mW
Validation: $P[n] \leq P_{limit}$ for all n, that is for every time step associated with the test	

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8.7 Scenario 7: Time-Varying Tx Power (ENDC)

In this scenario, maximum TX power is requested by a call box for each RAT, and technology hand-off at the EUT side is manually configured at a specific time instance. The test case for this scenario is relegated in Table 7-2, and the test procedure follows section 4.7.1. The measurement setup is shown in Figure 6-1.

This test aims to validate the TA-SAR algorithm with technology hand-off during the test period from LTE Band 5 Ant 4 to NR n66 NSA Ant 3b. The corresponding detailed test procedure is described in section 4.7.1. Figure 8-25 demonstrates the DUT’s instantaneous conducted TX power, the time-averaged conducted TX power behavior over time, the P_{limit} and P_{max} . The hand-off is configured at the time instance of 120 seconds and 240 seconds. It is observed in the figure that the time-averaged TX power of the individual RAT is below its own P_{limit} . Figure 8-26 illustrates the corresponding time-averaged SAR over time converted from the TX time-averaged power by using the equation listed in section 4.1. As seen in this figure, the time-averaged normalized SAR does not exceed the normalized limit of 1.

Note: “Cellular” in this scenario refers to LTE

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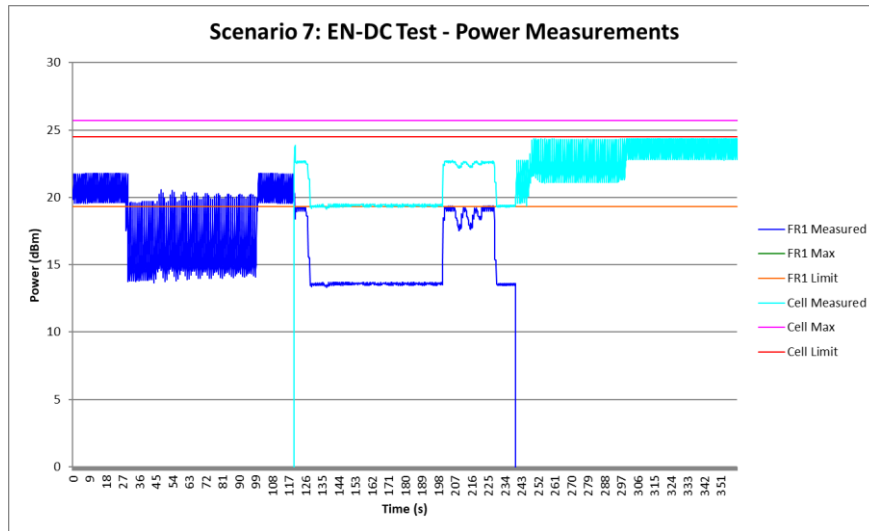


Figure 8-25: Time-averaged conducted TX power over time for Technology Hand-Off (ENDC) case LTE Band 5 Ant 4 to NR n66 NSA Ant 3b)

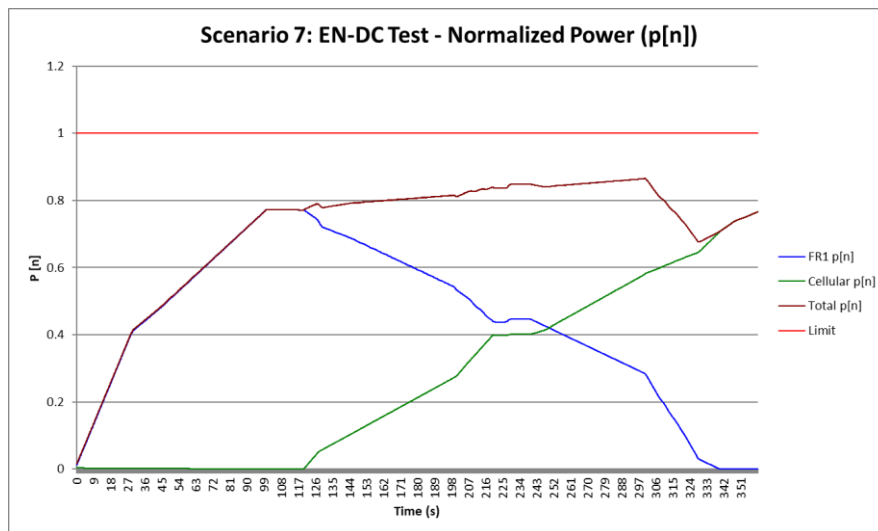


Figure 8-26: Normalized Time-averaged Power for Technology Hand-Off (ENDC) case (LTE Band 5 Ant 4 to NR n66 NSA Ant 3b)

Normalized P_{limit}	1.00
Highest normalized P_{avg}	0.866
Validation: $P[n] \leq P_{limit}$ for all n , that is for every time step associated with the test	

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8.8 Scenario 8: Time-Varying Tx Power (Inter-Band ULCA)

In this scenario, maximum TX power is requested by a call box for each RAT, and technology hand-off at the EUT side is manually configured at a specific time instance. The test case for this scenario is relegated in Table 7-2, and the test procedure follows section 4.7.2. The measurement setup is shown in Figure 6-1.

This test aims to validate the TA-SAR algorithm with technology hand-off during the test period from LTE Band 5 Ant 4 to LTE Band 2 Ant 3b. The corresponding detailed test procedure is described in section 4.7.2. Figure 8-27 demonstrates the DUT’s instantaneous conducted TX power, the time-averaged conducted TX power behavior over time, the P_{limit} and P_{max} . The hand-off is configured at the time instance of 160 seconds and 320 seconds. It is observed in the figure that the time-averaged TX power of the individual RAT is below its own P_{limit} . Figure 8-28 illustrates the corresponding time-averaged SAR over time converted from the TX time-averaged power by using the equation listed in section 4.1. As seen in this figure, the time-averaged normalized SAR does not exceed the normalized limit of 1.

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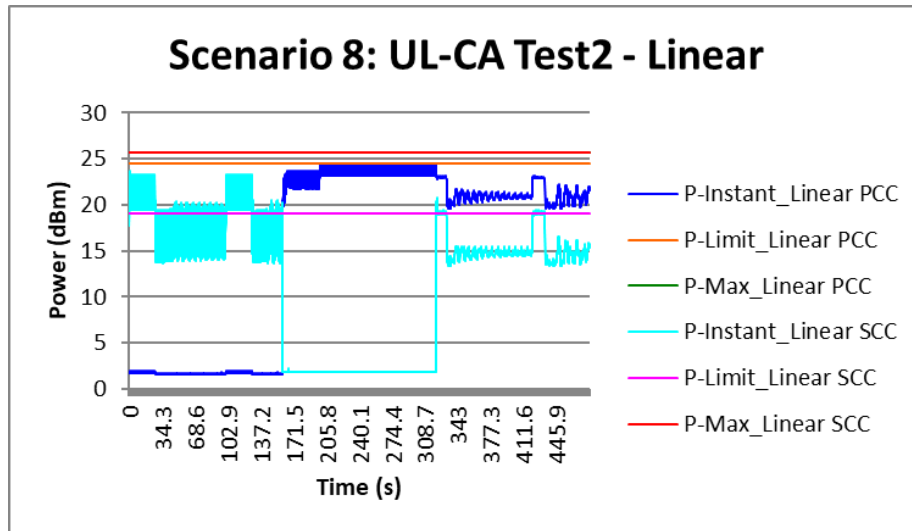


Figure 8-27: Time-averaged conducted TX power over time for Technology Hand-Off case (LTE Band 5 Ant 4 to LTE Band 2 Ant 3b)

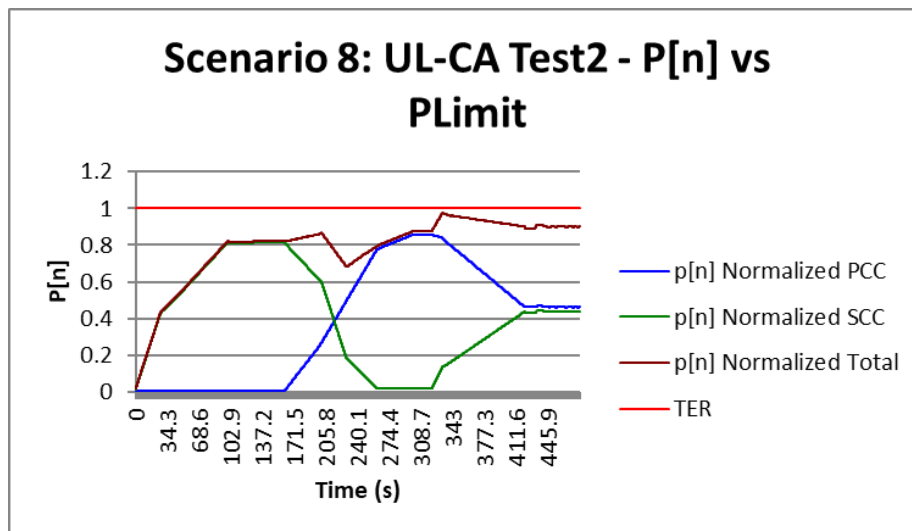


Figure 8-28: Normalized Time-averaged Power for Technology Hand-Off case (LTE Band 5 Ant 4 to LTE Band 2 Ant 3b)

Normalized P_{limit}	1.00
Highest normalized P_{avg}	0.976
Validation: $P[n] \leq P_{limit}$ for all n, that is for every time step associated with the test	

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/10/2025	1750 Head	19.1	1700	1.293	41.351	1.343	40.145	-3.72%	3.00%
			1705	1.296	41.344	1.345	40.141	-3.64%	3.00%
			1710	1.300	41.336	1.348	40.136	-3.56%	2.99%
			1720	1.305	41.321	1.354	40.126	-3.62%	2.98%
			1745	1.321	41.266	1.368	40.087	-3.44%	2.94%
			1750	1.324	41.253	1.371	40.079	-3.43%	2.93%
			1770	1.338	41.212	1.383	40.047	-3.25%	2.91%
			1790	1.351	41.181	1.394	40.016	-3.08%	2.91%
12/18/2025	1750 Head	20.7	1700	1.376	39.047	1.343	40.145	2.46%	-2.74%
			1705	1.382	39.028	1.345	40.141	2.75%	-2.77%
			1710	1.388	39.011	1.348	40.136	2.97%	-2.80%
			1720	1.399	38.983	1.354	40.126	3.32%	-2.85%
			1745	1.422	38.897	1.368	40.087	3.95%	-2.97%
			1750	1.426	38.874	1.371	40.079	4.01%	-3.01%
			1770	1.443	38.748	1.383	40.047	4.34%	-3.24%
			1790	1.462	38.615	1.394	40.016	4.88%	-3.50%
12/30/2025	1900 Head	21.6	1850	1.383	39.195	1.400	40.000	-1.21%	-2.01%
			1860	1.394	39.146	1.400	40.000	-0.43%	-2.14%
			1880	1.415	39.065	1.400	40.000	1.07%	-2.34%
			1900	1.436	38.985	1.400	40.000	2.97%	-2.51%
			1905	1.441	38.976	1.400	40.000	2.93%	-2.56%
			1910	1.446	38.968	1.400	40.000	3.29%	-2.61%
			1920	1.455	38.918	1.400	40.000	3.93%	-2.71%
			2300	1.654	40.093	1.670	39.500	-0.96%	1.50%
12/19/2025	2450 Head	19	2310	1.661	40.073	1.679	39.480	-1.07%	1.50%
			2320	1.667	40.049	1.687	39.460	-1.19%	1.49%
			2400	1.736	39.877	1.756	39.289	-1.14%	1.50%
			2450	1.769	39.848	1.800	39.200	-1.72%	1.65%
			2480	1.784	39.752	1.833	39.162	-2.67%	1.51%
			2500	1.801	39.692	1.855	39.136	-2.91%	1.42%
			2510	1.811	39.674	1.866	39.123	-2.95%	1.41%
			2535	1.836	39.602	1.893	39.092	-3.01%	1.46%
			2550	1.850	39.602	1.909	39.073	-3.09%	1.51%
			2560	1.859	39.656	1.920	39.060	-3.18%	1.53%
			2600	1.893	39.565	1.964	39.009	-3.62%	1.43%
			2650	1.937	39.489	2.018	38.945	-4.01%	1.40%
			2680	1.965	39.442	2.051	38.907	-4.19%	1.38%
			2700	1.984	39.401	2.073	38.882	-4.39%	1.33%
			2900	2.047	39.773	1.670	39.500	-1.38%	0.69%
12/23/2025	2450 Head	19	2310	1.653	39.748	1.679	39.480	-1.85%	0.68%
			2320	1.659	39.723	1.687	39.460	-1.66%	0.67%
			2400	1.727	39.541	1.756	39.289	-1.65%	0.64%
			2450	1.764	39.504	1.800	39.200	-2.00%	0.78%
			2480	1.779	39.406	1.833	39.162	-2.96%	0.62%
			2500	1.795	39.348	1.855	39.136	-3.23%	0.54%
			2510	1.805	39.330	1.866	39.123	-3.27%	0.53%
			2535	1.830	39.312	1.893	39.092	-3.33%	0.56%
			2550	1.844	39.309	1.909	39.073	-3.40%	0.60%
			2560	1.852	39.303	1.920	39.060	-3.54%	0.62%
			2600	1.885	39.221	1.964	39.009	-4.02%	0.54%
			2650	1.932	39.158	2.018	38.945	-4.26%	0.55%
			2680	1.958	39.116	2.051	38.907	-4.53%	0.54%
			2700	1.976	39.074	2.073	38.882	-4.68%	0.49%
12/12/2025	3600 Head	20.2	3300	2.587	38.819	2.708	38.157	-4.47%	4.36%
			3350	2.632	38.743	2.759	38.100	-4.60%	4.31%
			3450	2.726	38.550	2.861	37.986	-4.72%	4.12%
			3500	2.776	38.455	2.913	37.929	-4.79%	4.02%
			3550	2.823	38.368	2.964	37.871	-4.76%	4.00%
			3600	2.832	38.368	2.974	37.860	-4.77%	3.98%
			3600	2.874	39.282	3.015	37.814	-4.68%	3.88%
			3650	2.925	39.212	3.066	37.757	-4.60%	3.85%
			3690	2.960	39.140	3.107	37.711	-4.73%	3.79%
			3700	2.970	39.123	3.117	37.700	-4.72%	3.77%
			3750	3.024	39.042	3.169	37.643	-4.58%	3.72%
			3900	3.175	38.797	3.323	37.471	-4.45%	3.54%
			3930	3.205	38.735	3.353	37.437	-4.41%	3.47%
			4100	3.388	38.462	3.528	37.243	-3.97%	3.27%
			4150	3.444	38.349	3.579	37.186	-3.77%	3.13%
12/27/2025	3600 Head	19.1	3300	2.610	37.852	2.708	38.157	-3.62%	-0.80%
			3350	2.680	37.748	2.759	38.100	-2.86%	-0.92%
			3450	2.742	37.639	2.861	37.986	-4.16%	-0.91%
			3500	2.792	37.490	2.913	37.929	-4.15%	-1.16%
			3550	2.850	37.421	2.964	37.871	-3.85%	-1.19%
			3560	2.861	37.400	2.974	37.860	-3.80%	-1.22%
			3600	2.908	37.349	3.015	37.814	-3.55%	-1.23%
			3650	2.963	37.298	3.066	37.757	-3.36%	-1.25%
			3690	3.003	37.180	3.107	37.711	-3.35%	-1.41%
			3700	3.014	37.162	3.117	37.700	-3.30%	-1.43%
			3750	3.090	37.100	3.169	37.643	-2.49%	-1.44%
			3900	3.263	36.843	3.323	37.471	-1.81%	-1.68%
			3930	3.340	36.794	3.353	37.437	-0.39%	-1.72%
			4100	3.503	36.593	3.528	37.243	-0.71%	-1.75%
			4150	3.553	36.586	3.579	37.186	-0.73%	-1.61%

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The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

9.2 Test System Verification

Prior to SAR assessment, the system is verified to $\pm 10\%$ of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in Appendix C.

Table 9-2
System Verification Results – 1g

System Verification TARGET & MEASURED													
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)
AM15	1750	HEAD	12/10/2025	20.1	19.1	0.10	1083	7638	467	3.750	36.500	37.500	2.74%
AM13	1750	HEAD	12/18/2025	20.0	21.0	0.10	1040	7421	604	3.750	36.300	37.500	3.31%
AM3	1900	HEAD	12/30/2025	20.8	20.1	0.10	5d131	7552	1676	3.830	39.800	38.300	-3.77%
AM15	2600	HEAD	12/19/2025	21.7	19.0	0.10	1068	7638	467	5.750	56.100	57.500	2.50%
AM15	2600	HEAD	12/23/2025	20.5	19.0	0.10	1068	7638	467	5.550	56.100	55.500	-1.07%
AM3	3500	HEAD	12/12/2025	21.0	20.4	0.10	1126	7552	1676	6.450	66.200	64.500	-2.57%
AM3	3900	HEAD	12/27/2025	22.2	20.7	0.10	1062	7552	1676	7.300	68.700	73.000	6.26%

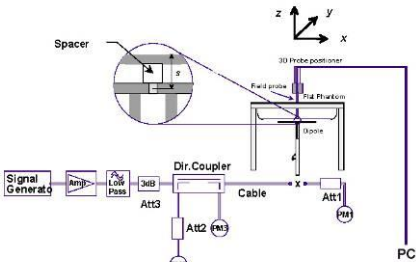


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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10 SAR TEST RESULTS

10.1 SAR Measurement Results for Test Case 1: Time-varying TX power transmission

In this scenario, the TAS algorithm is tested under more dynamic power test sequences. Test sequences A, B, and pseudo-random are tabulated in Appendix E. All the test cases for this scenario are relegated in Table 7-2, and the test procedure follows section 4.8.2. The following sections will demonstrate case-by-case to show how the TAS algorithm behaves for each RAT.

The test case for 3G WCDMA are conducted under WCDMA Band 4, the test cases for 4G LTE are conducted under LTE bands B66 and B41 PC3, and the test cases for 5G NR are conducted under NR bands n25 and n77. The corresponding detailed test procedure is described in section 4.1.2. For the figure set of each case, the first figure demonstrates the DUT's instantaneous conducted TX power, the time-averaged conducted TX power behavior over time, the P_{limit} , and P_{max} . The second figure illustrates the corresponding time-averaged SAR over time converted from the TX time-averaged power by using equation 2a in section 4.1. For all test cases, the time-averaged SAR does not exceed the FCC limit.

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- WCDMA Band 4 results for Test Sequence B

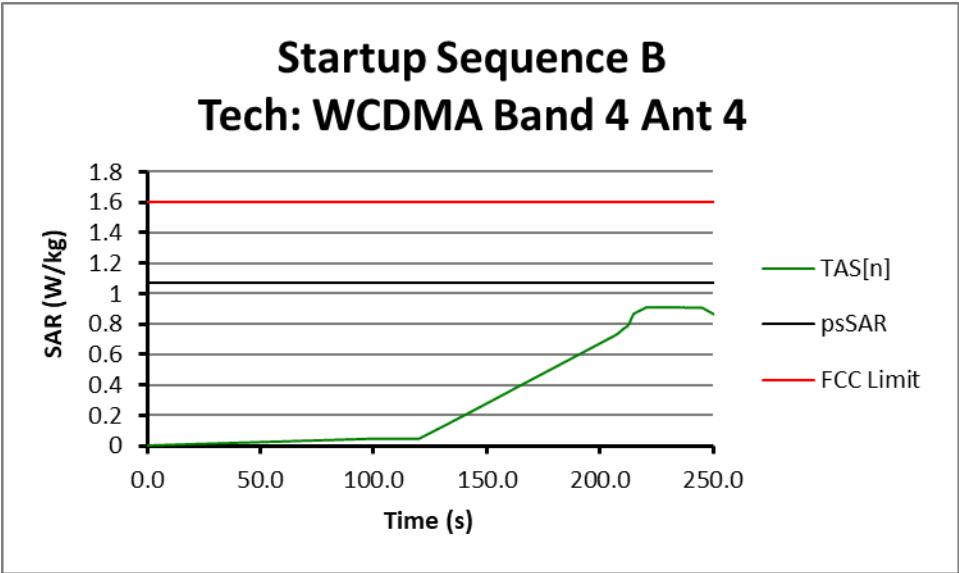


Figure 10-1: Time-averaged SAR for Change in Requested Power case (WCDMA Band 4 – Test Sequence B)

FCC 1gSAR limit	1.60 W/kg
psSAR (including all applicable tolerances and uncertainties)	1.07 W/kg
Max TAS[n] 100s Time-Averaged 1gSAR	0.907 W/kg
Validation: TAS[n] ≤ reported psSAR for all n, that is for every time step associated with the test	

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- LTE Band 66 results for Test Sequence A

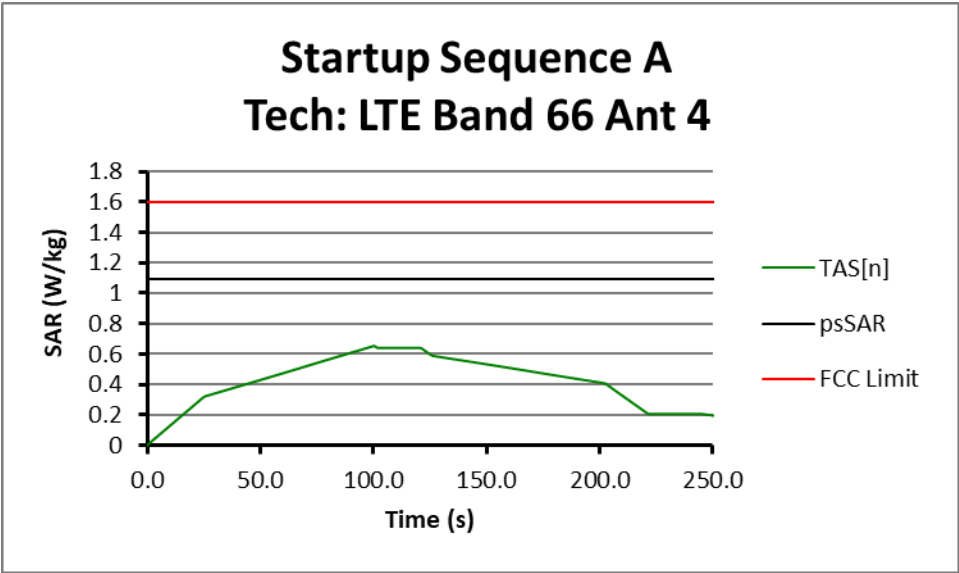


Figure 10-2: Time-averaged SAR for Change in Requested Power case (LTE Band 66 – Test Sequence A)

FCC 1gSAR limit	1.60 W/kg
psSAR (including all applicable tolerances and uncertainties)	1.09 W/kg
Max TAS[n] 100s Time-Averaged 1gSAR	0.651 W/kg
Validation: TAS[n] ≤ reported psSAR for all n, that is for every time step associated with the test	

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- LTE Band 66 results for Test Sequence B

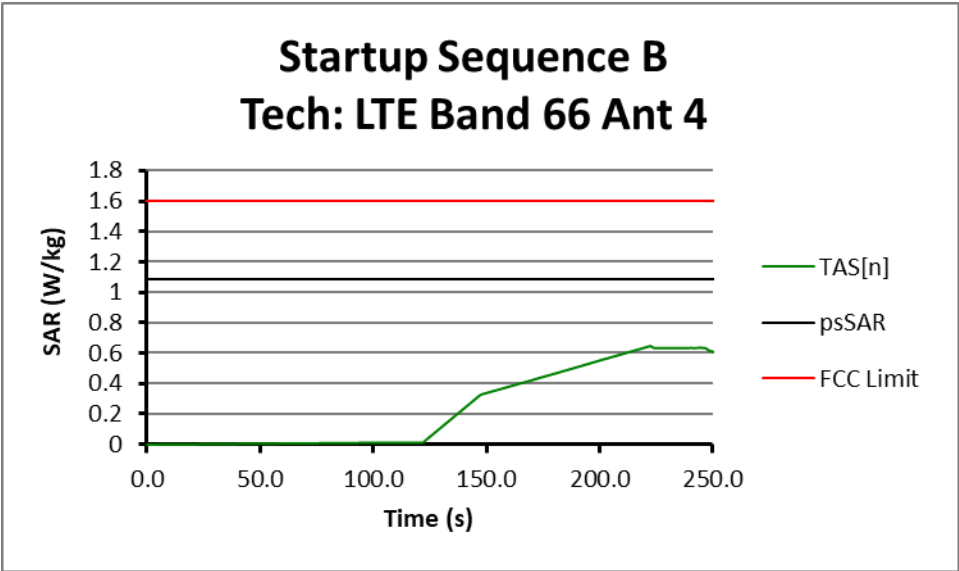


Figure 10-3: Time-averaged SAR for Change in Requested Power case (LTE Band 66 – Test Sequence B)

FCC 1gSAR limit	1.60 W/kg
psSAR (including all applicable tolerances and uncertainties)	1.09 W/kg
Max TAS[n] 100s Time-Averaged 1gSAR	0.649 W/kg
Validation: TAS[n] ≤ reported psSAR for all n, that is for every time step associated with the test	

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- LTE Band 66 results for Pseudo-Random Test Sequence

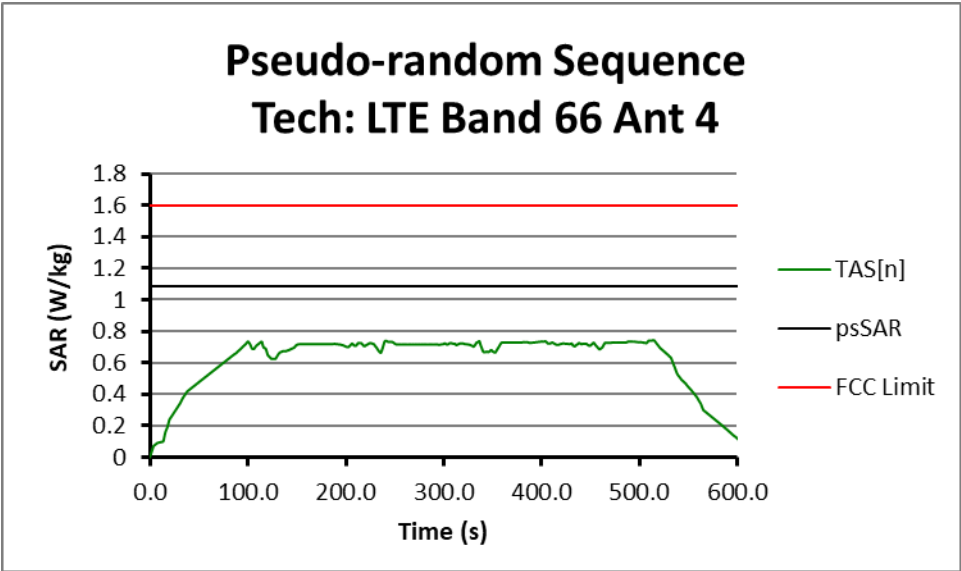


Figure 10-4: Time-averaged SAR for Change in Requested Power case (LTE Band 66 – Pseudo-Random Test Sequence)

FCC 1gSAR limit	1.60 W/kg
psSAR (including all applicable tolerances and uncertainties)	1.09 W/kg
Max TAS[n] 100s Time-Averaged 1gSAR	0.739 W/kg
Validation: TAS[n] ≤ reported psSAR for all n, that is for every time step associated with the test	

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- LTE Band 41 results for Test Sequence B

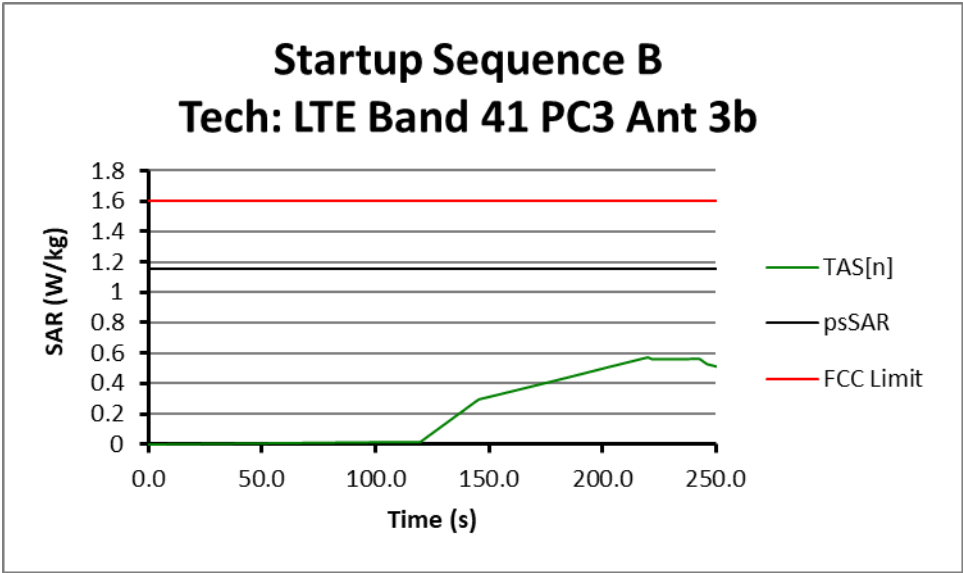


Figure 10-5: Time-averaged SAR for Change in Requested Power case (LTE Band 41 PC3 – Test Sequence B)

FCC 1gSAR limit	1.60 W/kg
psSAR (including all applicable tolerances and uncertainties)	1.16 W/kg
Max TAS[n] 100s Time-Averaged 1gSAR	0.575 W/kg
Validation: TAS[n] ≤ reported psSAR for all n, that is for every time step associated with the test	

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- NR n25 SA results for Test Sequence B

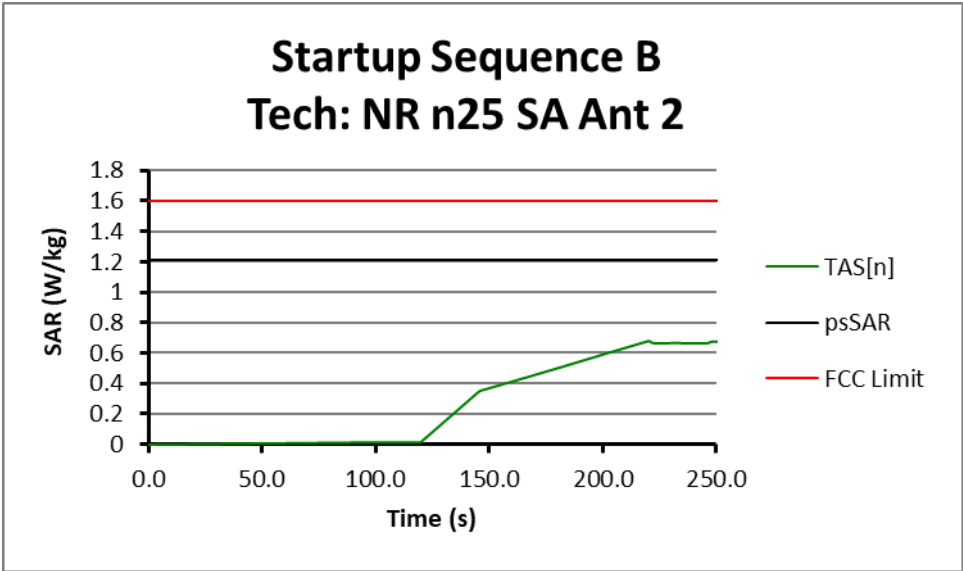


Figure 10-6: Time-averaged SAR for Change in Requested Power case (NR n25 SA – Test Sequence B)

FCC 1gSAR limit	1.60 W/kg
psSAR (including all applicable tolerances and uncertainties)	1.21 W/kg
Max TAS[n] 100s Time-Averaged 1gSAR	0.682 W/kg
Validation: TAS[n] ≤ reported psSAR for all n, that is for every time step associated with the test	

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- NR n77 SA results for Test Sequence B

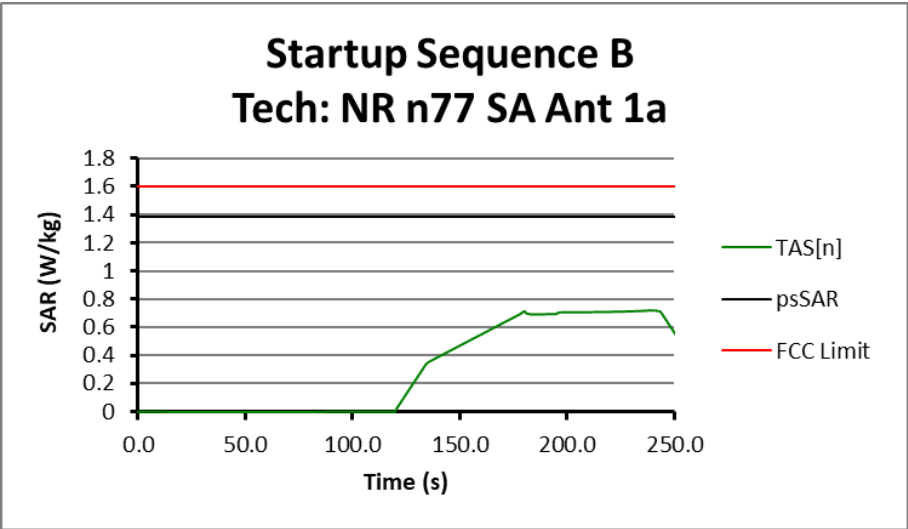


Figure 10-7: Time-averaged SAR for Change in Requested Power case (NR n77 SA – Test Sequence B)

FCC 1gSAR limit	1.60 W/kg
psSAR (including all applicable tolerances and uncertainties)	1.38 W/kg
Max TAS[n] 60s Time-Averaged 1gSAR	0.721 W/kg
Validation: TAS[n] ≤ reported psSAR for all n, that is for every time step associated with the test	

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11 LINEARITY VALIDATION

11.1 Measurement Results for Linearity Validation: Time-varying TX power transmission via Single Point SAR Measurements

To validate linearity, point SAR measurements are performed with TAS operation turned off. Per antenna, the mode with the largest difference between P_{limit} and P_{max} will be selected for measurement. When possible, different frequency bands will be assessed per antenna.

Point SAR measurements are performed in 2dB step intervals from P_{max} to P_{limit} minus 4dB.

Linearity is sufficiently validated when the SAR versus requested power is within the defined device parameters.

Note: The upper and lower bounds (dash lines) correspond to the conducted power tolerance of each tech/band/ant.

Table 11-1
Linearity Validation Configurations

Linearity Validation				
Antenna	Band	P_{max} [dBm]	P_{limit} [dBm]	P_{max} - P_{limit} delta [dBm]
1a	NR Band n77 Sub-band C - [Ch. 662000]	26.5	19.6	6.9
1b	NR Band n41 PC2 - [Ch. 518598]	28.7	19.3	9.4
2	NR Band n41 PC2 - [Ch. 518598]	28.7	19.7	9.0
3a	NR Band n77 Sub-band C - [Ch. 662000]	27.6	18.1	9.5
3b	NR Band n41 PC2 - [Ch. 518598]	28.2	19.5	8.7
4	LTE Band 66 - [Ch. 132572]	25.7	15.8	9.9

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Table 11-2
NR Band 77 Sub-band C Ant 1a Linearity Validation Results

Ant 1a NR n77 (C) PC2 - [Ch. 662000]				
Nominal Power (dBm)	Power (mW)	Time-Averaged SAR (W/kg)	Lower Bound (-1.3 dB)	Upper Bound (+1.3 dB)
26.50	446.68	3.000	2.57	4.68
24.50	281.84	2.040	1.62	2.95
22.50	177.83	1.290	1.02	1.86
20.50	112.20	0.810	0.64	1.17
18.50	70.79	0.550	0.41	0.74
16.50	44.67	0.318	0.26	0.47
14.50	28.18	0.200	0.16	0.30
12.50	17.78	0.126	0.10	0.19

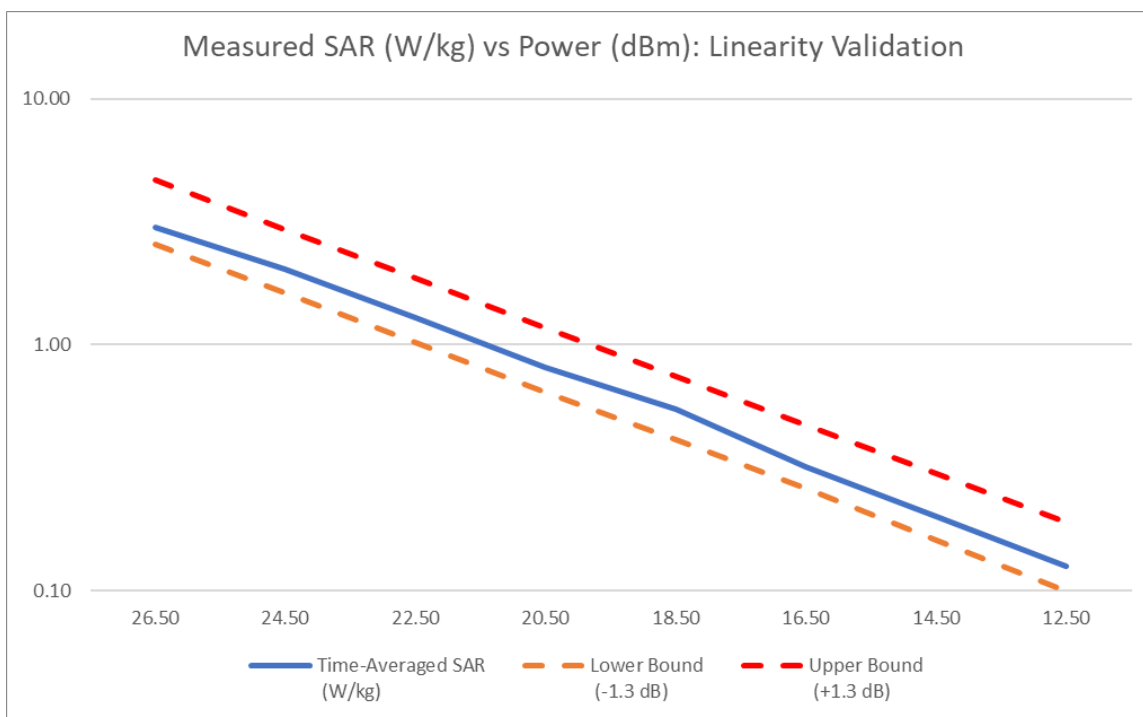


Figure 11-1
NR Band n77 Sub-band C Ant 1a Linearity Validation Results

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Table 11-3
NR Band n41 Ant 1b Linearity Validation Results

Ant 1b NR n41 PC2 - [Ch. 518598]				
Nominal Power (dBm)	Power (mW)	Time-Averaged SAR (W/kg)	Lower Bound (-1.2 dB)	Upper Bound (+1.2 dB)
28.70	741.31	4.090	3.94	6.84
26.70	467.74	3.260	2.48	4.31
24.70	295.12	2.090	1.57	2.73
22.70	186.21	1.300	0.99	1.71
20.70	117.49	0.823	0.62	1.08
18.70	74.13	0.519	0.39	0.69
16.70	46.77	0.334	0.25	0.44
14.70	29.51	0.208	0.16	0.28

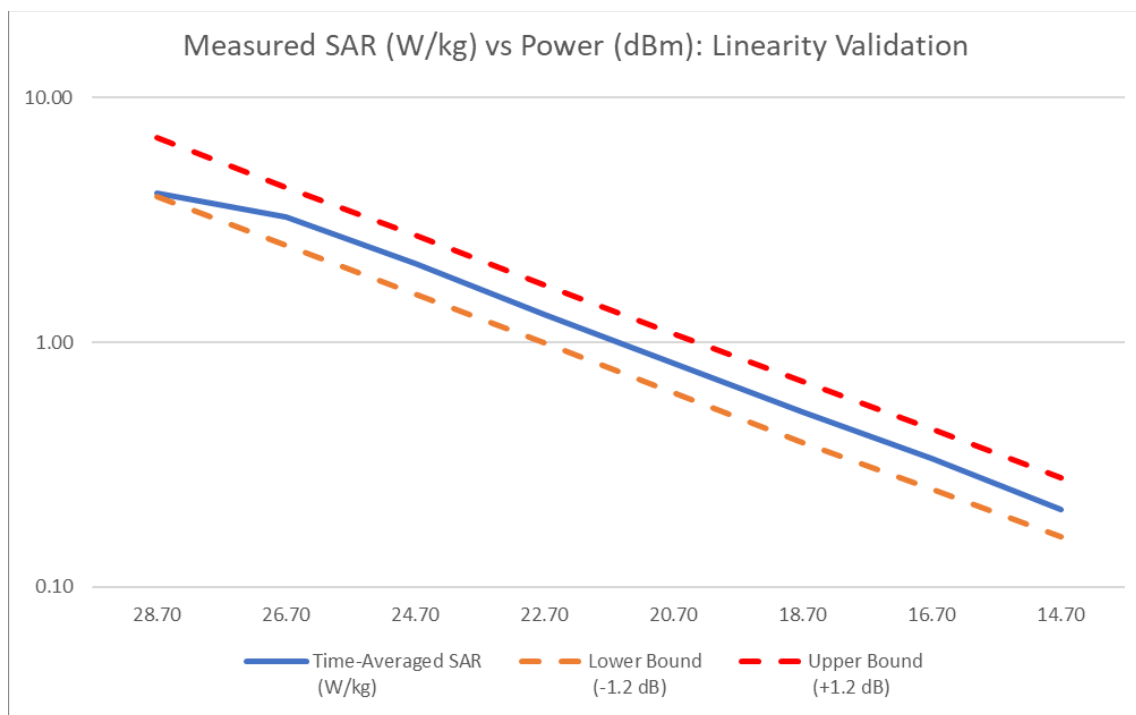


Figure 11-2
NR Band n41 Ant 1b Linearity Validation Results

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Table 11-4
NR Band n41 Ant 2 Linearity Validation Results

Ant 2 NR n41 PC2 - [Ch. 518598]				
Nominal Power (dBm)	Power (mW)	Time-Averaged SAR (W/kg)	Lower Bound (-0.7 dB)	Upper Bound (+0.7 dB)
28.70	741.31	5.690	5.63	7.78
26.70	467.74	4.350	3.56	4.91
24.70	295.12	2.780	2.25	3.10
22.70	186.21	1.760	1.41	1.95
20.70	117.49	1.120	0.89	1.23
18.70	74.13	0.662	0.56	0.78
16.70	46.77	0.450	0.36	0.49
14.70	29.51	0.279	0.22	0.31

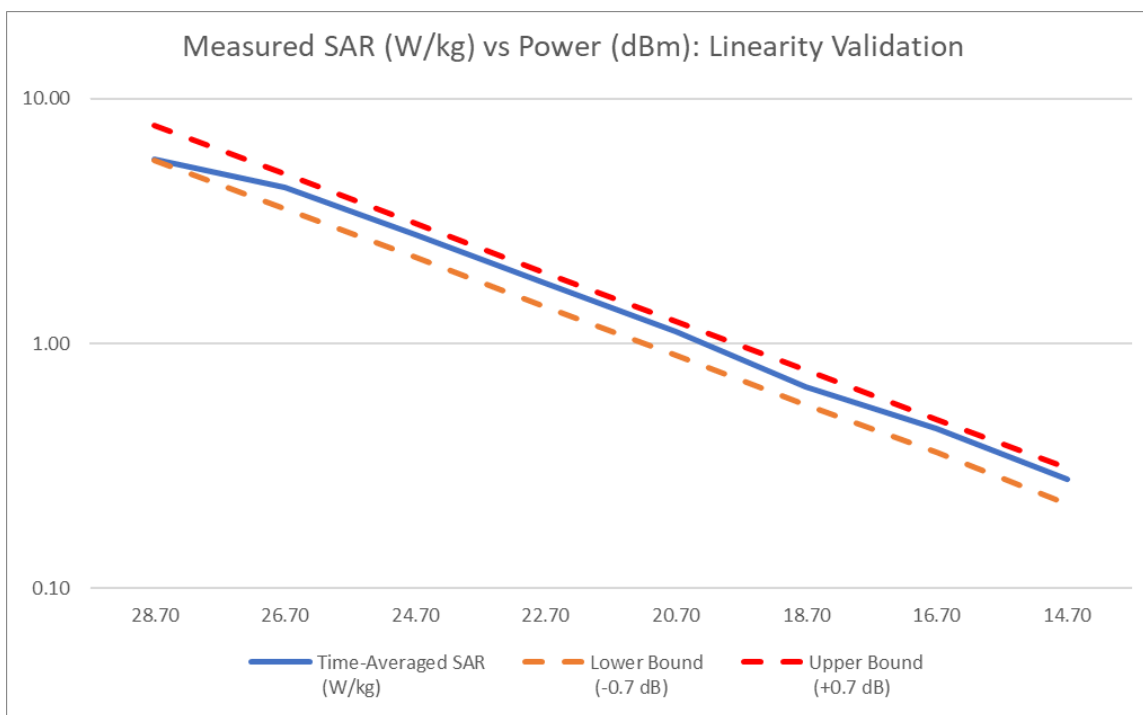


Figure 11-3
NR Band n41 Ant 2 Linearity Validation Results

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Table 11-5
NR Band n77 Sub-band C Ant 3a Linearity Validation Results

Ant 3a NR n77(C) - [Ch.662000]				
Nominal Power (dBm)	Power (mW)	Time-Averaged SAR (W/kg)	Lower Bound (-1.1 dB)	Upper Bound (+1.1 dB)
27.60	575.44	4.850	4.12	6.84
25.60	363.08	3.410	2.60	4.32
23.60	229.09	2.150	1.64	2.72
21.60	144.54	1.350	1.03	1.71
19.60	91.20	0.841	0.65	1.08
17.60	57.54	0.532	0.41	0.68
15.60	36.31	0.339	0.26	0.43
13.60	22.91	0.211	0.16	0.27

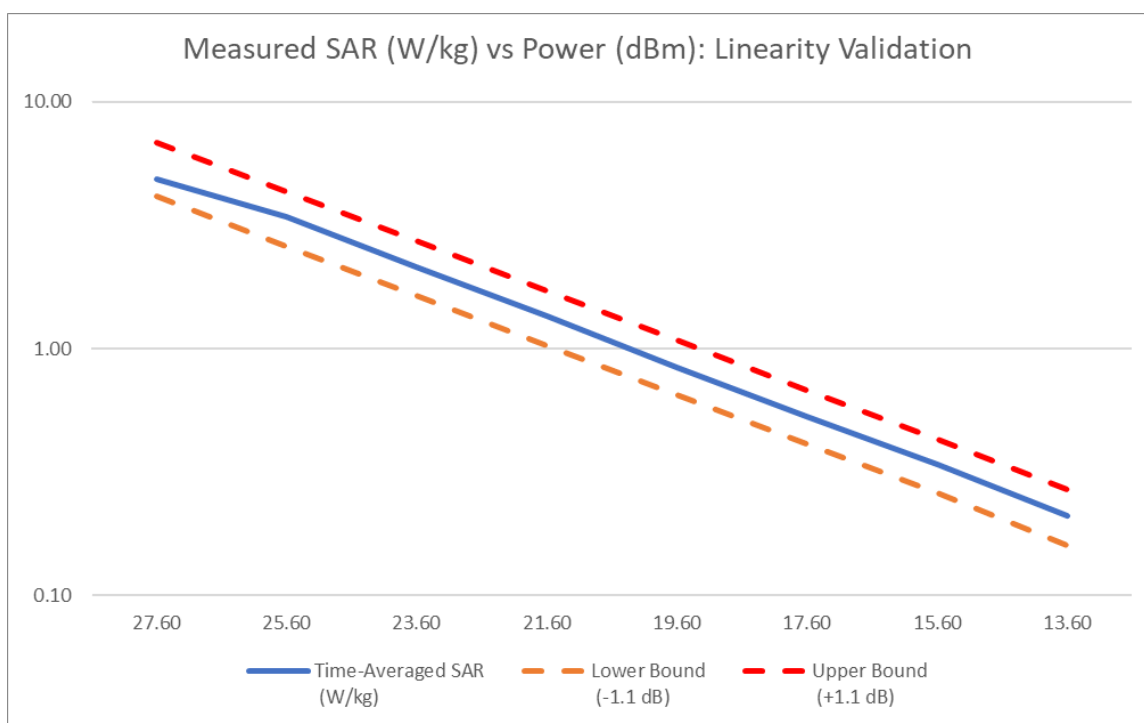


Figure 11-4
NR Band n77 Sub-band C Ant 3a Linearity Validation Results

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Table 11-6
NR Band n41 Ant 3b Linearity Validation Results

Ant 3b NR n41 PC2 - [Ch. 518598]				
Nominal Power (dBm)	Power (mW)	Time-Averaged SAR (W/kg)	Lower Bound (-0.7 dB)	Upper Bound (+0.7 dB)
28.2	660.69	4.750	4.44	6.13
26.2	416.87	3.200	2.80	3.87
24.2	263.03	2.000	1.77	2.44
22.2	165.96	1.300	1.11	1.54
20.2	104.71	0.808	0.71	0.98
18.2	66.07	0.522	0.44	0.61
16.2	41.69	0.326	0.28	0.39
14.2	26.30	0.203	0.18	0.25

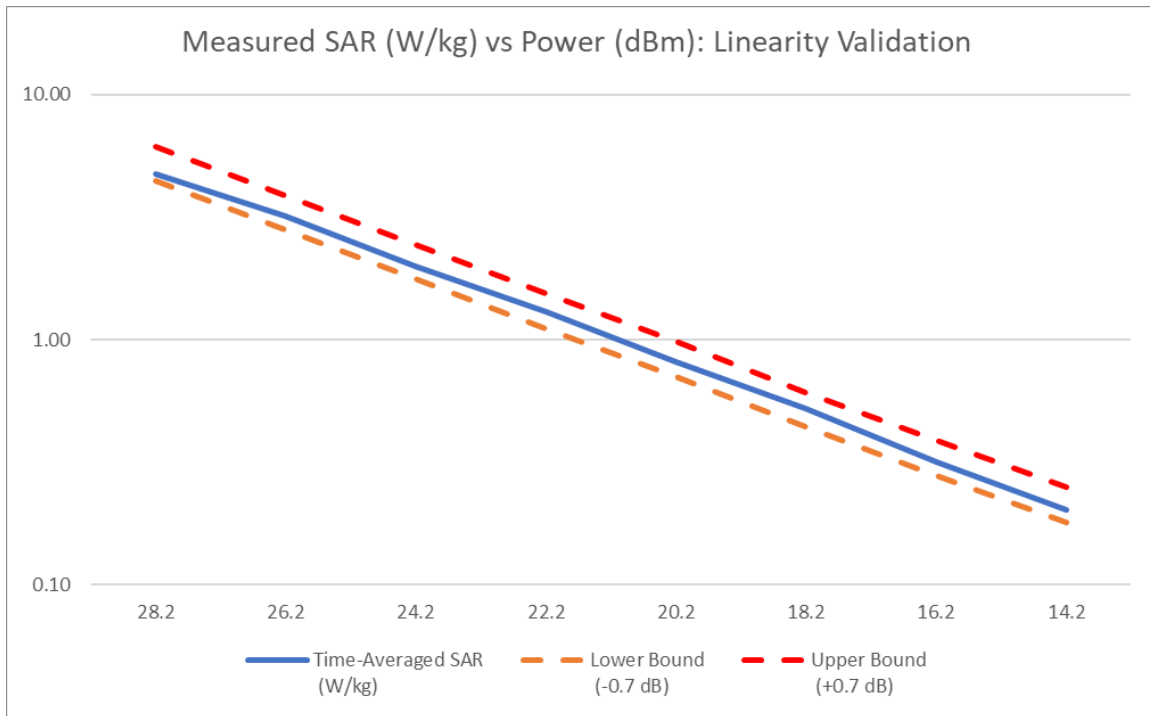


Figure 11-5
NR Band n41 Ant 3b Linearity Validation Results

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Table 11-7
LTE Band 66 Ant 4 Linearity Validation Results

Ant 4 LTE Band 66 - [Ch. 132572]				
Nominal Power (dBm)	Power (mW)	Time-Averaged SAR (W/kg)	Lower Bound (-0.7 dB)	Upper Bound (+0.7 dB)
25.7	371.54	9.950	9.91	13.68
23.7	234.42	7.940	6.26	8.64
21.7	147.91	5.010	3.95	5.45
19.7	93.33	3.160	2.49	3.43
17.7	58.88	2.000	1.57	2.17
15.7	37.15	1.260	0.99	1.36
13.7	23.44	0.791	0.62	0.86
11.7	14.79	0.501	0.39	0.54

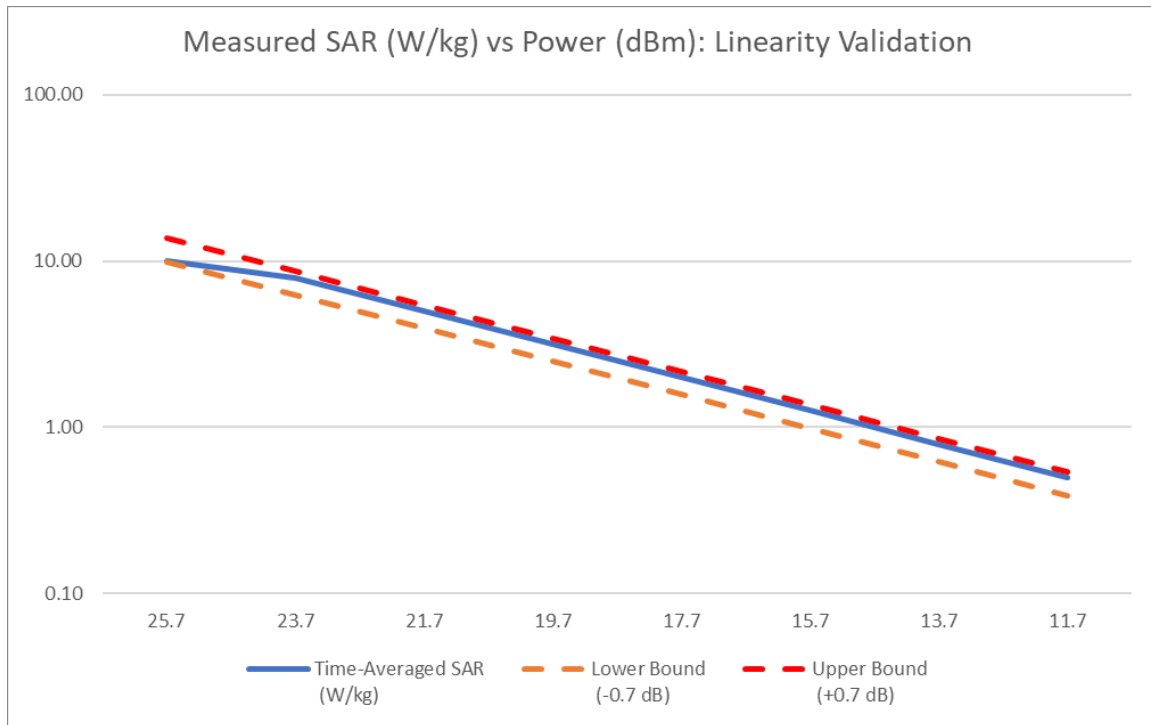


Figure 11-6
LTE Band 66 Ant 4 Linearity Validation Results

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12 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4438C	ESG Vector Signal Generator	11/2/2025	Annual	11/2/2026	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	5/12/2025	Annual	5/12/2026	MY45093678
Agilent	N5182A	MXG Vector Signal Generator	5/30/2025	Annual	5/30/2026	MY48180366
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433974
Anritsu	MA24106A	USB Power Sensor	8/4/2025	Annual	8/4/2026	1827530
Anritsu	MA24106A	USB Power Sensor	4/28/2025	Annual	4/28/2026	1520501
Anritsu	MA24106A	USB Power Sensor	5/29/2025	Annual	5/29/2026	1344554
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MY40001472
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Keysight Technologies	E7515B	UXM 5G Wireless Test Platform	9/5/2025	Annual	9/5/2026	MY61349011
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	3/4/2025	Annual	3/4/2026	164715
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/10/2025	Annual	10/10/2026	166869
Rohde & Schwarz	NRP8S	3-Path Dipole Power Sensor	2/24/2025	Annual	2/24/2026	109959
Rohde & Schwarz	NRP8SN	3-Path Dipole Power Sensor	2/21/2025	Biennial	2/21/2027	103499
Rohde & Schwarz	NRP8S	3-Path Dipole Power Sensor	2/19/2025	Annual	2/19/2026	108523
Agilent	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
SPEAG	D1750V2	1750 MHz SAR Dipole	2/26/2025	Annual	2/26/2026	1083
SPEAG	D1750V2	1750 MHz SAR Dipole	11/6/2025	Triennial	11/6/2028	1040
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2024	Biennial	10/23/2026	5d131
SPEAG	D2600V2	2600 MHz SAR Dipole	11/10/2025	Triennial	11/10/2028	1068
SPEAG	D3500V2	3500 MHz SAR Dipole	6/10/2024	Biennial	6/10/2026	1126
SPEAG	D3900V2	3900 MHz SAR Dipole	11/7/2024	Biennial	11/7/2026	1062
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/13/2025	Annual	5/13/2026	1676
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/6/2025	Annual	3/6/2026	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/6/2025	Annual	2/6/2026	467
SPEAG	EX3DV4	SAR Probe	3/6/2025	Annual	3/6/2026	7638
SPEAG	EX3DV4	SAR Probe	5/14/2025	Annual	5/14/2026	7552
SPEAG	EX3DV4	SAR Probe	3/6/2025	Annual	3/6/2026	7421

Notes:

- CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler, or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.
- Each equipment item is used solely within its respective calibration period.

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13 MEASUREMENT UNCERTAINTIES

For SAR Measurements

a	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System								
Probe Calibration	6.55	N	1	1.0	1.0	6.6	6.6	∞
Axial Isotropy	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	2.0	R	1.73	1.0	1.0	1.2	1.2	∞
Linearity	0.3	N	1	1.0	1.0	0.3	0.3	∞
System Detection Limits	0.25	R	1.73	1.0	1.0	0.1	0.1	∞
Readout Electronics	0.3	N	1	1.0	1.0	0.3	0.3	∞
Response Time	0.8	R	1.73	1.0	1.0	0.5	0.5	∞
Integration Time	2.6	R	1.73	1.0	1.0	1.5	1.5	∞
RF Ambient Conditions - Noise	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
RF Ambient Conditions - Reflections	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	R	1.73	1.0	1.0	0.2	0.2	∞
Probe Positioning w/ respect to Phantom	6.7	R	1.73	1.0	1.0	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	4.0	R	1.73	1.0	1.0	2.3	2.3	∞
Test Sample Related								
Test Sample Positioning	2.7	N	1	1.0	1.0	2.7	2.7	35
Device Holder Uncertainty	1.67	N	1	1.0	1.0	1.7	1.7	5
Output Power Variation - SAR drift measurement	5.0	R	1.73	1.0	1.0	2.9	2.9	∞
SAR Scaling	0.0	R	1.73	1.0	1.0	0.0	0.0	∞
Phantom & Tissue Parameters								
Phantom Uncertainty (Shape & Thickness tolerances)	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	4.2	N	1	0.78	0.71	3.3	3.0	10
Liquid Permittivity - measurement uncertainty	4.1	N	1	0.23	0.26	1.0	1.1	10
Liquid Conductivity - Temperature Uncertainty	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)						RSS	11.5	11.3
Expanded Uncertainty (95% CONFIDENCE LEVEL)						k=2	23.0	22.6

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14 CONCLUSION

14.1 Measurement Conclusion

The SAR evaluation indicates that the DUT complies with the RF radiation exposure limits of the FCC with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested. The above analysis is sufficient in displaying the validation of this Cellular TAS algorithm.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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