



Part 1: Test Under Static Transmission Scenario

For
SMARTPHONE

FCC ID: BCG-E8435A
Model Name: A2848

Report Number: 14523740-S4V3
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Revision History

Rev.	Date	Revisions	Revised By
V1	7/23/2023	Initial Issue	--
V2	7/27/2023	1. Updated Table 6-1 with the correct P_{\max} values 2. Updated Tables 6-4 to 6-6 with the correct printed backoff value, contribution factor, and verification formula	Nathan Sousa
V3	8/3/2023	1. Removed n79 from the report	Nathan Sousa

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1. Attestation of Test Results

Applicant Name	APPLE INC.
FCC ID	BCG-E8427A
Model Name	A2846
Reference SAR Report	14523740-S1 and 14523740-S10
Exposure Category	PD Limit (W/m ²)
General Population (Uncontrolled Exposure)	10
RF Exposure Conditions	Highest Reported PD (W/m ²)
	5.960
Date Tested	6/30/2023 to 7/3/2023
<p>UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.</p> <p>This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for the validity of results after the integration of the data provided by the customer.</p> <p>The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.</p> <p>This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, NIST, or any agency of the U.S. Government, or any agency of the U.S. government.</p>	
Approved & Released By:	Prepared By:
	
Dave Weaver Operations Leader UL Verification Services Inc.	Nathan Sousa Senior Laboratory Engineer UL Verification Services Inc.

2. Facilities and Accreditation

The test sites and measurement facilities used to collect data are located at

47173 Benicia Street	47266 Benicia Street
SAR Labs A to H	SAR Labs 1 to 19

UL Verification Services Inc. is accredited by A2LA, Certificate Number 0751.05

3. Introduction

The equipment under test (EUT) contains the Qualcomm modem supporting 2G/3G/4G/5G technologies and millimeter wave 5G NR bands. Both WWAN modems are enabled with Qualcomm's Smart Transmit feature with algorithms to control and manage transmitting power in real time and to ensure the time-averaged RF exposure from the WWAN modems are always in compliance with FCC requirements.

In addition to these WWAN modems, the EUT supports WLAN/BT/MSS radio(s) as well, but the WLAN/BT/MSS modem is not enabled with Qualcomm's Smart Transmit feature.

The purpose of this Part 1 report is to demonstrate that this EUT complies with FCC RF exposure limits at maximum time-averaged transmit power limits for WWAN technologies, and at maximum transmit power limits for WLAN technologies. The specifics of this report are, as listed:

- SAR and power density (PD) compliance for all WWAN radios (Sub-6 GHz + 5G millimeter wave NR) is assessed based on maximum time-averaged transmit power (static transmission condition). Relevant FCC KDBs and exclusion criteria are applied on a time-average power basis for WWAN technologies. The maximum time-averaged transmit power limits for supported WWAN technologies, bands, and antennas in this report are derived in the Part 0 report. The validation of the Qualcomm's Smart Transmit time-averaging algorithm and compliance under the Tx varying transmission scenario for WWAN technologies are reported in the Part 2 report.
- SAR compliance for WLAN radios is assessed based on maximum transmit power as per relevant FCC KDBs.
- Demonstrated compliance in simultaneous transmission scenarios involving both WWAN and WLAN transmissions, where WWAN exposure is assessed based on time-averaged transmit power limits, and WLAN exposure is assessed based on maximum transmit power limits.

The P_{limit} and *input.power.limit* used in this report are determined and listed in the Part 0 report.

4. Measurement Setup and General Information

This section provides the details of the test setup used for PD measurement.

4.1. Test Environment

Test Location	UL Verification Services
Ambient Temperature	22±2°C
Tissue Simulating Liquid	22±2°C
Humidity Range	30% ~ 49%

4.2. Power Density Measurement System

The power density measurement system is constructed based on the DASY6 platform by SPEAG. The DASY6/8 with EUmillimeter wavev2, EUmillimeter wavev3, and EUmillimeter wavev4 and 5G software module can measure the electromagnetic exposure (electromagnetic and power density) up to 110GHz as close as 2mm from any transmitter.

4.2.1. Power Density Probe

The novel EUmillimeter wavev2, EUmillimeter wavev3, and EUmillimeter wavev4 probe is used in the power density measurement. It is designed for precise near-field measurements in the mm-wave range by Schmid & Partner Engineering AG of Zurich, Switzerland. The specifications are:

- Frequency range: 0.75 ~ 110 GHz
- Dynamic range: <50 – 3000 V/m (up to 10000 V/m with additional PRE-10 voltage divider)
- Linearity: < ± 0.2 dB
- Supports sensor model calibration (SMC)
- ISO17025 accredited calibration

4.2.2. Power Density Measurement System Verification

The power density system verification is performed using the SPEAG verification device. It consists of a ka-band horn antenna with a corresponding gun oscillator packaged within a cube-shaped housing.

The specification of the verification device is:

- Calibrated frequency: 30 GHz at 10 mm from the case surface
- Frequency accuracy: ± 100 MHz
- E-field polarization: linear
- Harmonics: -20 dBc (typ)
- Total radiated power: 14 dBm (typ)
- Power stability: 0.05 dB
- Power consumption: 5 W (max)
- Size: 100 × 100 × 100 mm
- Weight: 1 kg

Tables 4-1 and 4-2 shows the verification test results. The measured power density (PD) value is within ±1.2 dB of the target level; for the 5G verification source's uncertainty, please refer to Appendix B.

Table 4-1: System validation results for SAR 3

SAR Lab	Test Date	Frequency (GHz)	5G Probe SN	Probe Cal. Due Data	DAE SN	DAE Cal. Due Date	5G Verification Source SN	Source Cal. Due Data	Measured psPDn (W/m ²) over 4cm ²	Target psPDn (W/m ²) over 4cm ²	Deviation (dB)	Measured psPDtot (W/m ²) over 4cm ²	Target psPDtot (W/m ²) over 4cm ²	Deviation (dB)
3	3/16/2023	30	9589	9/20/2023	1377	9/15/2023	1003	9/14/2023	33.8	33.3	0.06	34.7	33.3	0.18
3	3/16/2023	30	9589	9/20/2023	1377	9/15/2023	1003	9/14/2023	33	33.3	-0.04	34.4	33.3	0.14
3	3/16/2023	30	9589	9/20/2023	1377	9/15/2023	1003	9/14/2023	32.5	33.3	-0.11	33.9	33.3	0.08
3	3/16/2023	30	9589	9/20/2023	1377	9/15/2023	1003	9/14/2023	33.5	33.3	0.03	34.8	33.3	0.19
3	3/16/2023	30	9589	9/20/2023	1377	9/15/2023	1003	9/14/2023	34.7	33.3	0.18	36.1	33.3	0.35
3	3/21/2023	30	9589	9/20/2023	1377	9/15/2023	1003	9/14/2023	33.5	33.3	0.03	34.9	33.3	0.20
3	3/21/2023	30	9589	9/20/2023	1377	9/15/2023	1003	9/14/2023	33.3	33.3	0.00	34.7	33.3	0.18
3	3/21/2023	30	9589	9/20/2023	1377	9/15/2023	1003	9/14/2023	33.2	33.3	-0.01	34.6	33.3	0.17
3	3/21/2023	30	9589	9/20/2023	1377	9/15/2023	1003	9/14/2023	33.3	33.3	0.00	34.8	33.3	0.19
3	3/21/2023	30	9589	9/20/2023	1377	9/15/2023	1003	9/14/2023	33.1	33.3	-0.03	34.6	33.3	0.17
Average									33.4	33.3	0.01	34.8	33.3	0.19

Table 4-2: System validation results for SAR 6

SAR Lab	Test Date	Frequency (GHz)	5G Probe SN	Probe Cal. Due Data	DAE SN	DAE Cal. Due Date	5G Verification Source SN	Source Cal. Due Data	Measured psPDn (W/m ²) over 4cm ²	Target psPDn (W/m ²) over 4cm ²	Deviation (dB)	Measured psPDtot (W/m ²) over 4cm ²	Target psPDtot (W/m ²) over 4cm ²	Deviation (dB)
6	3/2/2023	30	9496	2/20/2024	1540	1/23/2024	1003	9/14/2023	32.5	33.3	-0.11	33.1	33.3	-0.03
6	3/3/2023	30	9496	2/20/2024	1540	1/23/2024	1003	9/14/2023	32.4	33.3	-0.12	33	33.3	-0.04
6	3/6/2023	30	9496	2/20/2024	1540	1/23/2024	1003	9/14/2023	32.4	33.3	-0.12	33	33.3	-0.04
6	3/6/2023	30	9496	2/20/2024	1540	1/23/2024	1003	9/14/2023	32.5	33.3	-0.11	33.1	33.3	-0.03
6	3/6/2023	30	9496	2/20/2024	1540	1/23/2024	1003	9/14/2023	32.7	33.3	-0.08	33.3	33.3	0.00
6	3/6/2023	30	9496	2/20/2024	1540	1/23/2024	1003	9/14/2023	32.4	33.3	-0.12	33	33.3	-0.04
6	3/6/2023	30	9496	2/20/2024	1540	1/23/2024	1003	9/14/2023	32.4	33.3	-0.12	33	33.3	-0.04
6	3/6/2023	30	9496	2/20/2024	1540	1/23/2024	1003	9/14/2023	32.8	33.3	-0.07	33.3	33.3	0.00
6	3/6/2023	30	9496	2/20/2024	1540	1/23/2024	1003	9/14/2023	33.3	33.3	0.00	33.8	33.3	0.06
6	3/6/2023	30	9496	2/20/2024	1540	1/23/2024	1003	9/14/2023	33.7	33.3	0.05	34.2	33.3	0.12
Average									32.7	33.3	-0.08	33.3	33.3	0.00

Table 4-3: System Check Results

SAR Lab	Date	Frequency (GHz)	5G Verification Source SN	Source Cal. Due Data	Measured psPDn (W/m ²) over 4cm ²	Target psPDn (W/m ²) over 4cm ²	Deviation (dB)	Delta ±10 %	Measured psPDtot (W/m ²) over 4cm ²	Target psPDtot (W/m ²) over 4cm ²	Deviation (dB)	Delta ±10 %
3	6/30/2023	30	1003	9/14/2023	36.7	33.4	0.41	10%	38.3	34.8	0.42	10%
3	7/2/2023	30	1003	9/14/2023	36.0	33.4	0.33	8%	36.9	34.8	0.26	6%
SAR Lab	Date	Frequency (GHz)	5G Verification Source SN	Source Cal. Due Data	Measured psPDn (W/m ²) over 4cm ²	Target psPDn (W/m ²) over 4cm ²	Deviation (dB)	Delta ±10 %	Measured psPDtot (W/m ²) over 4cm ²	Target psPDtot (W/m ²) over 4cm ²	Deviation (dB)	Delta ±10 %
6	6/30/2023	30	1003	9/14/2023	35.5	32.7	0.36	9%	36.1	33.3	0.35	8%
6	7/2/2023	30	1003	9/14/2023	34.3	32.7	0.21	5%	34.6	33.3	0.17	4%

Measurement Report for Device, FRONT, Validation band, UID 0 -, Channel 0 (30000.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
, Device	100.0 x 100.0 x 100.0		Phone

Exposure Conditions

Phantom Section	Position, Test Distance [mm]	Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	FRONT, 5.55	Validation band	CW, 0--	30000.0, 0	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- xxxx	---Air	EUmmWV4 - SN9589_F1-55GHz, 2022-09-20	DAE4 Sn1377, 2022-09-15

Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.55
MAIA	N/A

Measurement Results

	5G Scan
Date	2023-03-16, 19:11
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	34.7
psPDtot+ [W/m ²]	36.1
psPDmod+ [W/m ²]	36.2
E _{max} [V/m]	134
Power Drift [dB]	-0.02

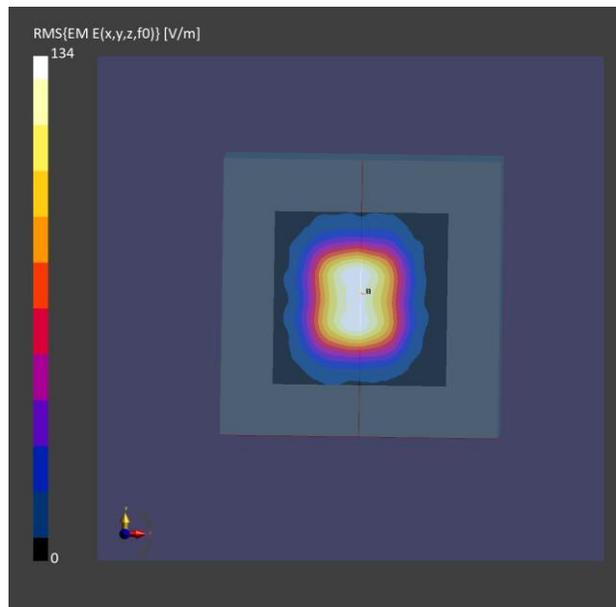


Figure 4-1: 4cm² PD for source validation (worst-case Δ) SAR 3

Measurement Report for Device, FRONT, Validation band, UID 0 -, Channel 0 (30000.0MHz)

Device under Test Properties

Model, Manufacturer	Dimensions [mm]	IMEI	DUT Type
, Device	100.0 x 100.0 x 100.0		Phone

Exposure Conditions

Phantom Section	Position, Distance [mm]	Test Band	Group, UID	Frequency [MHz], Channel Number	Conversion Factor
5G Air	FRONT, 5.55	Validation band	CW, 0--	30000.0, 0	1.0

Hardware Setup

Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- xxxx	---Air	EUmmWV4 - SN9496_F1-55GHz, 2023-02-20	DAE4 Sn1540, 2023-01-23

Scan Setup

	5G Scan
Grid Extents [mm]	60.0 x 60.0
Grid Steps [lambda]	0.25 x 0.25
Sensor Surface [mm]	5.55
MAIA	N/A

Measurement Results

	5G Scan
Date	2023-03-06, 20:44
Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	33.7
psPDtot+ [W/m ²]	34.2
psPDmod+ [W/m ²]	34.3
E _{max} [V/m]	129
Power Drift [dB]	0.07

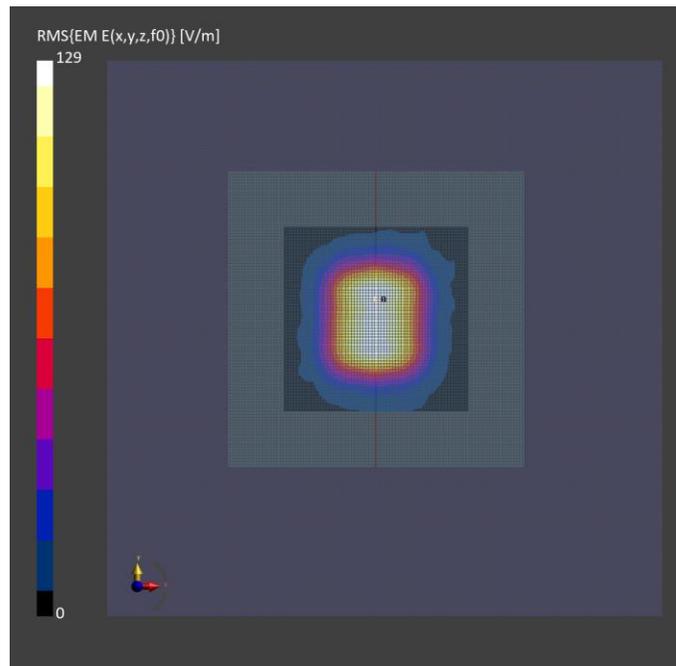


Figure 4-2: 4cm² PD for source validation (worst-case Δ) SAR 6

5. Test Condition, Configuration, and Assessment

5.1. Qualcomm Smart Transmit Parameters

These parameters are entered through the *Embedded File System* (EFS) and cannot be accessed by the end-user.

The Part 0 report documents the determination of P_{limit} for Sub-6 GHz WWAN bands and the *input.power.limit* for 5G millimeter wave NR bands using the design targets and limits listed below:

SAR _{Design Target} (1-g W/kg)	SAR _{Design Target} (10-g W/kg)	SAR _{Design Limit} (1-g W/kg)	SAR _{Design Limit} (10-g W/kg)
0.8	2.0	1.0	2.5
PD _{Design Target} (W/m ²)		PD _{Design Limit} (W/m ²)	
3.9		6.3	

- Tx_power_at_SAR_design_target (P_{limit} in dBm) for Tx transmitting frequency < 6 GHz
 - The maximum time-average transmit power, in dBm, at which this radio configuration (i.e., band and technology) reaches the *SAR_design_target*. This *SAR_design_target* is pre-determined for the specific device, and it shall be less than regulatory SAR limit after accounting for all design related tolerances. The time-averaged SAR is assessed against this *SAR_design_target* in real time to determine the compliance. The P_{limit} could vary with technology, band and DSI (device state index), therefore it has the unique value for each technology, band and DSI.
- Reserve_power_margin (dB)
 - With Smart Transmit EFS version 17 or lower:
 - The margin, in dB, below the P_{limit} to reserve for future transmission with a minimum transmit power ($P_{reserve}$):

$$P_{reserve} (dBm) = P_{limit} (dBm) - Reserve_{power\ margin} (dB)$$

- The *Reserve_power_margin* is a global parameter, meaning it applies to all the technologies and bands. When the *Reserve_power_margin* is set to zero dB, Smart Transmit effectively limits the upper bound of EUT transmit power to P_{limit} , in other words, the EUT transmits continuously at P_{limit} .
 - With Smart Transmit EFS version 18 or higher:
 - For 2G and 3G WWAN technologies, the parameter of *Reserve_power_margin* has been re-named to *Reserve_power_margin_db_2g_3g_wwan*.
 - For 4G/5G WWAN technologies, the equivalent reserve of *Reserve_power_margin* is denoted as *total_min_exp_budget_linear_4g_5g_wwan*. Furthermore, the parameter of *secondary_split_ratio* is introduced in EFS version 18 and higher so the OEM can determine the minimum reserve margin out of total minimum reserve (i.e., $secondary_split_ratio * total_min_exp_budget_linear_4g_5g_wwan$) that is used for the secondary WWAN radio in a two-WWAN-radio transmission scenario. Here, primary WWAN radio in a two-WWAN-radio transmission scenario can get minimum reserve margin of $(1 - secondary_split_ratio) * total_min_exp_budget_linear_4g_5g_wwan$.
- *input.power.limit* (dBm) for Tx transmitting frequency ≥ 6 GHz
 - The maximum time-average power at the input of antenna element port, in dBm, at which each beam meets the *PD_design_target* that is less than the regulatory power density limit after accounting for all design related tolerances.

- **Smart Tx Gen:** **ONLY** applicable for Smart Transmit EFS version 16 or higher
 - The EFS version 16 (or higher) supports 2nd generation of Smart Transmit (GEN2). The EUT with Smart Transmit EFS version 16 (or higher) has an option to select GEN1 or GEN2. The procedure to determine PD char (i.e., *input.power.limit*) is different. Therefore, in the case of EUT with Smart Transmit EFS version 16 (or higher), additional millimeter wave module switch test is needed to confirm if Smart Transmit EFS used in EUT is configured for GEN1 or GEN2. The EFS configuration (GEN1 or GEN2) should correspond to the PD char performed in Part 0 report, otherwise, EFS configuration should be changed to match GEN1/GEN2 PD char of Part 0 report.
 - Qualcomm 2nd generation of Smart Transmit (GEN2) supports Sub-6 GHz and millimeter wave favor modes. The Smart Transmit EFS provides below options to configure for a given MCC (country/region):
 - GEN1
 - GEN2_MILLIMETER WAVE
 - GEN2_SUB-6 GHZ
 - GEN2_SUB-6 GHZ_MILLIMETER WAVE
- **force peak** for Tx transmitting frequency < 6 GHz
 - The Smart Transmit feature applies time-averaging windows when the device detects an MCC that matches Time-Averaged Exposure MCCs list. For each of the MCCs under Time-Averaged Exposure MCCs list, the Smart Transmit feature can limit either maximum instantaneous Tx power or maximum time-average power to P_{limit} per tech/band/antenna/DSI. If force peak is set to '1' for a given tech/band/antenna/DSI in the EFS, then the Smart Transmit feature limits the maximum instantaneous Tx power to P_{limit} for the selected tech/band/antenna/DSI. In other words, with force peak set to '1', under static condition (i.e., fixed tech/band/antenna/DSI) and in single active Tx scenario, Smart Transmit can guarantee Tx power level of P_{limit} at all times.
- **WWAN Backoff (dB) for WiFi/BT:** **ONLY** applicable for Smart Transmit EFS version 16 (or higher) in GEN1 or GEN2_MILLIMETER WAVE configurations¹
 - The EFS version 16 (or higher) provides the entry to backoff WWAN radio when WLAN is transmitting. This backoff when WiFi/BT is transmitting can be configured per tech/band/DSI/antenna (Sub-6 GHz antenna and millimeter wave module) in GEN1 or GEN2_MILLIMETER WAVE configuration only. Therefore, in the case of EUT with Smart Transmit EFS version 16 (or higher), perform additional tests (one for Sub-6 GHz WWAN radio, and one for millimeter wave WWAN radio) to verify whether backoff configured in EFS is properly applied by Smart Transmit for GEN1 or GEN2_MILLIMETER WAVE configurations when WiFi/BT is transmitting.

5.1.1. Qualcomm Smart Transmit Parameters for the Sub-6 Modem

For this EUT, the input parameters listed in §5.3 of the Part 0 report are populated via the EFS entry.

5.1.2. Qualcomm Smart Transmit parameters for the 5G modem

For this EUT, the *input.power.limit* parameters for the 5G millimeter wave NR radio(s) are listed in §5.7.3 of the Part 0 report and are populated via EFS entry into the EUT.

5.2. Device Test Configuration for SAR Measurements

In summary, SAR is evaluated on this EUT in test configurations and test conditions listed below:

- **Test configurations:** Body-worn & Hotspot SAR exposure (1-g SAR) from all device surfaces/edges (front, back, left, right, top, bottom) having a transmitting antenna located $\leq 25\text{mm}$ from that device surface/edge when in direct contact with flat section of SAM phantom.
- **Test condition:** The SAR measurements on all supported Sub-6 WWAN technologies and bands are conducted with the EUT transmitting at maximum time-average transmit power (P_{limit}) or maximum RF tune-up power (P_{max}) if $P_{max} \leq P_{limit}$.

¹ This is not a compliance test, the compliance in WWAN + WLAN/BT scenario should be demonstrated in Part 1 simultaneous transmission analysis section; *WWAN Backoff (dB) for WiFi/BT* is applicable **ONLY** when EUT is configured as GEN1 and/or GEN2_MMW.

5.3. Device Test Configuration for PD Measurements

As can be seen in §5 of the Part 0 report, the PD exposure for this EUT has been assessed against the $PD_{Design Target}$ listed in §5.1 of this report using a validated simulation approach for the worst cases for all its beams. To further confirm the compliance, a subset of beams and test cases were selected for PD verification, see §6.2.

The below beam selection criteria for the PD verification test are followed:

- Select one single beam (antenna array config) per antenna type (dipole or patch) and per millimeter wave antenna module
 - The single beam containing highest number of active antenna ports. For example, the single beam with 4 active patch ports should be selected over the beam with a single active patch port
- Select one beam pair (if applicable) per antenna type (dipole or patch) and per millimeter wave antenna module
 - The beam pair containing the highest number of active antenna ports.

Additionally, since the worst-case surface dictates the compliance, the PD measurement is made on the worst channel and worst surface determined through the validated simulation approach, see Appendix B of the Part 0 report.

Based on the aforementioned criteria and the EUT codebook in §5.3 of the Part 0 report, Tables 5-1 to 5-3 list the selected beams and test cases for PD verification measurement(s). The definition of the EUT surface is illustrated in Figure 5-1.

Table 5-1: PD verification test cases for n258

Module/Antenna	Ch.	Beam ID1	Beam ID2	BW	RB	DUT
		V	H	MHz	#	Surface
ANT M2	2032499	43		100	1	Back
	2032499	43	171	100	1	Back
	2025833		163	50	1	Back
	2025833		163	50	1	Left
Module/Antenna	Ch.	Beam ID1	Beam ID2	BW	RB	DUT
		V	H	MHz	#	Surface
ANT M1	2032499		146	100	1	Back
	2032499	18	146	100	1	Back
	2018333	29		100	1	Back
	2018333	29		100	1	Left
	2018333	29		100	1	Top
Module/Antenna	Ch.	Beam ID1	Beam ID2	BW	RB	DUT
		V	H	MHz	#	Surface
ANT M3	2018333	38		100	1	Right
	2032499	39	167	100	1	Right
	2025833		166	50	1	Right
	2025833		166	50	1	Back
	2025833		166	50	1	Front

Table 5-2: PD verification test cases for n260

Module/Antenna	Ch.	Beam ID1	Beam ID2	BW	RB	DUT
		V	H	MHz	#	Surface
ANT M2	2277500	44		100	1	Back
	2253330		163	100	1	Back
	2253330	35	163	100	1	Back
	2253330	35	163	100	1	Left
Module/Antenna	Ch.	Beam ID1	Beam ID2	BW	RB	DUT
		V	H	MHz	#	Surface
ANT M1	2229167	19		100	1	Back
	2229167		147	100	1	Back
	2229167	18	146	100	66	Back
	2229167	18	146	100	66	Left
	2229167	18	146	100	66	Top
Module/Antenna	Ch.	Beam ID1	Beam ID2	BW	RB	DUT
		V	H	MHz	#	Surface
ANT M3	2277500	50		100	1	Right
	2229167	50	178	100	1	Right
	2253330		177	100	1	Right
	2253330		177	100	1	Back
	2253330		177	100	1	Front

Table 5-3: PD verification test cases for n261

Module/Antenna	Ch.	Beam ID1	Beam ID2	BW	RB	DUT
		V	H	MHz	#	Surface
ANT M2	2083330		171	100	1	Back
	2070833	43	171	100	1	Back
	2070833	33		100	33	Back
	2070833	33		100	33	Left
Module/Antenna	Ch.	Beam ID1	Beam ID2	BW	RB	DUT
		V	H	MHz	#	Surface
ANT M1	2083330	28		100	1	Back
	2070833		155	100	1	Back
	2083330	18	146	100	1	Back
	2083330	18	146	100	1	Left
	2083330	18	146	100	1	Top
Module/Antenna	Ch.	Beam ID1	Beam ID2	BW	RB	DUT
		V	H	MHz	#	Surface
ANT M3	2077084		175	100	1	Right
	2077084	47	175	100	1	Right
	2077084	42		50	1	Right
	2077084	42		50	1	Back
	2077084	42		50	1	Front

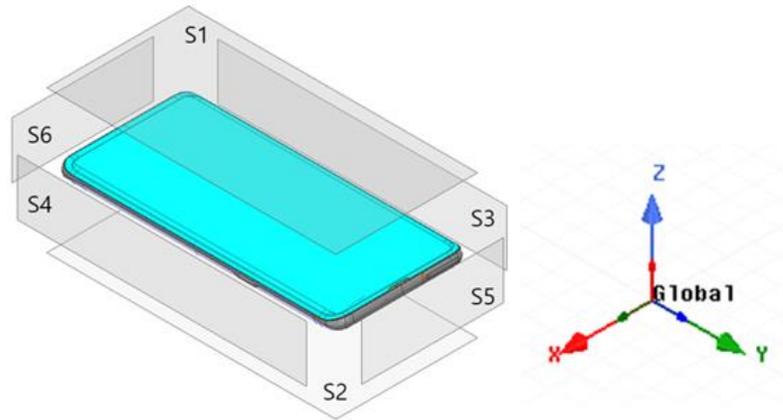


Figure 5-1: EUT surface definition (S1=Front, S2=Back, S3=Edge Left, S4=Edge Right, S5=Edge Top, S6=Edge Bottom)

6. Summary of Results

6.1. SAR Measurement and Conducted Power Results at P_{limit}

The transmit power limit, P_{limit} , that corresponds to the $SAR_{Design\ Target}$, stated in §5.1 for all technologies and bands, was determined through the Part 0 report and are listed in EFS entries in §5.3 of the Part 0 report. For this EUT, the P_{max} (maximum RF tune-up power) for select Sub-6 GHz technologies is less than, or equal to, the corresponding P_{limit} , as summarized and shown in Table 6-1.

Table 6-1: Comparison of P_{limit} and P_{max}

Exposure Scenario		Duty Cycle	Head				Body & Hotspot				Hotspot				P _{max} (dBm)		
Spatial-averaging			1-g				1-g				1-g						
Test Distance			0 mm				5 mm				5 mm						
Power Mode (DS)			DS: 0				DS: 1				DS: 1						
Antenna	Tech/Band	P _{max} (dBm)	P _{limit} + Uncertainty (dBm)	P _{avg} (dBm)	P _{limit} + Uncertainty (dBm)	P _{avg} (dBm)	P _{limit} + Uncertainty (dBm)	P _{avg} (dBm)	P _{limit} + Uncertainty (dBm)	P _{avg} (dBm)	P _{limit} + Uncertainty (dBm)	P _{avg} (dBm)	P _{limit} + Uncertainty (dBm)	Burst Average	Frame Average		
																Burst Average	Frame Average
ANT 1	GSM 850 2 slots	25.0%	39.72	32.50	33.70	26.48	35.34	32.50	29.32	26.48	33.43	32.50	27.41	26.48	33.50	27.48	
	GSM 1900 2 slots	25.0%	38.19	31.00	32.17	24.98	29.63	26.80	23.61	20.78	26.83	26.80	20.81	20.78	32.00	25.98	
	W-CDMA B2	100.0%	31.19	25.70	31.19	25.70	21.86	19.20	21.86	19.20	19.24	19.20	19.24	19.20	25.70	25.70	
	W-CDMA B4	100.0%	32.50	25.30	32.50	25.30	21.48	19.30	21.48	19.30	19.34	19.30	19.34	19.30	25.70	25.70	
	W-CDMA B5	100.0%	33.19	25.70	33.19	25.70	25.91	25.70	25.91	25.70	25.91	25.70	25.91	25.70	25.70	25.70	
	LTE Band 5	100.0%	32.72	25.70	32.72	25.70	27.33	25.70	27.33	25.70	27.33	25.70	27.33	25.70	25.70	25.70	
	LTE Band 7	100.0%	24.74	20.00	24.74	20.00	22.36	22.00	22.36	22.00	22.03	22.00	22.03	22.00	25.70	25.70	
	LTE Band 12/17	100.0%	33.45	25.70	33.45	25.70	29.53	25.70	29.53	25.70	26.67	25.70	26.67	25.70	25.70	25.70	
	LTE Band 13	100.0%	31.90	25.70	31.90	25.70	28.36	25.70	28.36	25.70	26.27	25.70	26.27	25.70	25.70	25.70	
	LTE Band 14	100.0%	32.50	25.70	32.50	25.70	28.43	25.70	28.43	25.70	25.98	25.70	25.98	25.70	25.70	25.70	
	LTE Band 25/2	100.0%	31.57	25.70	31.57	25.70	22.30	19.50	22.30	19.50	19.59	19.50	19.59	19.50	25.70	25.70	
	LTE Band 26	100.0%	33.04	25.70	33.04	25.70	26.88	25.70	26.88	25.70	26.88	25.70	26.88	25.70	25.70	25.70	
	LTE Band 30	100.0%	34.62	25.70	34.62	25.70	24.57	24.30	24.57	24.30	24.37	24.30	24.37	24.30	25.70	25.70	
	LTE Band 41	63.3%	34.07	25.70	32.09	23.71	24.43	22.80	22.45	20.81	22.84	22.80	20.86	20.81	25.70	23.71	
	LTE Band 41 (PC2)	43.3%	35.21	28.10	31.57	24.46	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	28.70	25.06	
	LTE Band 53	63.3%	33.02	20.70	31.03	18.71	25.41	20.70	23.42	18.71	24.61	20.70	22.63	18.71	20.70	18.71	
	LTE Band 66/4	100.0%	31.45	25.30	31.45	25.30	21.32	19.50	21.32	19.50	19.51	19.50	19.51	19.50	25.70	25.70	
	LTE Band 71	100.0%	31.97	25.70	31.97	25.70	28.56	25.70	28.56	25.70	27.90	25.70	27.90	25.70	25.70	25.70	
	MSS	100.0%	N/A	N/A	N/A	N/A	22.02	20.00	22.02	20.00	21.10	20.00	21.10	20.00	28.00	28.00	
	NR n5	100.0%	32.10	25.70	32.10	25.70	27.25	25.70	27.25	25.70	27.25	25.70	27.25	25.70	25.70	25.70	
	NR n7	100.0%	23.92	20.00	23.92	20.00	22.23	22.20	22.23	22.20	22.23	22.20	22.23	22.20	25.70	25.70	
	NR n12	100.0%	33.50	25.70	33.50	25.70	29.40	25.70	29.40	25.70	27.38	25.70	27.38	25.70	25.70	25.70	
	NR n14	100.0%	31.71	25.70	31.71	25.70	28.16	25.70	28.16	25.70	26.05	25.70	26.05	25.70	25.70	25.70	
	NR n25/2	100.0%	31.29	25.70	31.29	25.70	21.32	19.50	21.32	19.50	19.71	19.50	19.71	19.50	25.70	25.70	
	NR n26	100.0%	32.70	25.70	32.70	25.70	27.31	25.70	27.31	25.70	27.31	25.70	27.31	25.70	25.70	25.70	
	NR n30	100.0%	34.81	25.20	34.81	25.20	25.80	24.30	25.80	24.30	24.39	24.30	24.39	24.30	25.70	25.70	
	NR n41	100.0%	30.46	24.50	30.46	24.50	21.16	20.80	21.16	20.80	20.95	20.80	20.95	20.80	25.70	25.70	
	NR n53	100.0%	30.35	18.70	30.35	18.70	22.66	18.70	22.66	18.70	21.79	18.70	21.79	18.70	20.70	20.70	
	NR n66	100.0%	31.05	25.30	31.05	25.30	21.58	19.40	21.58	19.40	19.42	19.40	19.42	19.40	25.70	25.70	
	NR n70	100.0%	32.48	25.30	32.48	25.30	21.24	19.40	21.24	19.40	19.93	19.40	19.93	19.40	25.70	25.70	
	NR n71	100.0%	34.01	25.70	34.01	25.70	28.10	25.70	28.10	25.70	28.10	25.70	28.10	25.70	25.70	25.70	
	ANT 2	GSM 850 2 slots	25.0%	35.05	30.50	29.03	24.48	35.60	31.30	29.57	25.28	35.60	31.30	29.57	25.28	32.50	26.48
		GSM 1900 2 slots	25.0%	27.28	27.20	21.26	21.18	26.81	25.70	20.79	19.68	26.73	25.70	20.70	19.68	29.50	23.48
		W-CDMA B2	100.0%	20.19	20.10	20.19	20.10	19.96	19.50	19.96	19.50	19.52	19.50	19.52	19.50	23.40	23.40
		W-CDMA B4	100.0%	20.23	19.90	20.23	19.90	22.09	20.00	22.09	20.00	20.00	20.00	20.00	20.00	23.40	23.40
W-CDMA B5		100.0%	25.50	24.50	25.50	24.50	25.76	24.70	25.76	24.70	25.76	24.70	25.76	24.70	24.70	24.70	
LTE Band 5		100.0%	24.70	24.50	24.70	24.50	24.86	24.70	24.86	24.70	24.86	24.70	24.86	24.70	24.70	24.70	
LTE Band 7		100.0%	19.41	19.30	19.41	19.30	19.94	19.90	19.94	19.90	19.94	19.90	19.94	19.90	23.70	23.70	
LTE Band 12/17		100.0%	25.46	24.70	25.46	24.70	27.82	24.70	27.82	24.70	27.82	24.70	27.82	24.70	24.70	24.70	
LTE Band 13		100.0%	25.13	24.50	25.13	24.50	25.80	24.50	25.80	24.50	25.80	24.50	25.80	24.50	24.70	24.70	
LTE Band 14		100.0%	25.36	24.50	25.36	24.50	25.64	24.50	25.64	24.50	25.64	24.50	25.64	24.50	24.70	24.70	
LTE Band 25/2		100.0%	20.63	20.60	20.63	20.60	20.80	20.10	20.80	20.10	20.16	20.10	20.16	20.10	23.40	23.40	
LTE Band 26		100.0%	24.83	24.50	24.83	24.50	25.10	24.70	25.10	24.70	25.10	24.70	25.10	24.70	24.70	24.70	
LTE Band 30		100.0%	22.33	22.30	22.33	22.30	23.79	22.00	23.79	22.00	22.05	22.00	22.05	22.00	23.70	23.70	
LTE Band 41		63.3%	20.59	20.50	18.61	18.51	21.62	21.50	19.63	18.51	21.62	21.50	19.63	18.51	25.70	23.71	
LTE Band 53		63.3%	21.54	20.00	19.55	18.01	21.88	20.70	19.90	18.71	21.88	20.70	19.90	18.71	20.70	18.71	
LTE Band 66/4		100.0%	20.10	20.00	20.10	20.00	21.75	19.40	21.75	19.40	19.52	19.40	19.52	19.40	25.70	25.70	
LTE Band 71		100.0%	26.31	24.70	26.31	24.70	26.50	24.70	26.50	24.70	26.50	24.70	26.50	24.70	24.70	24.70	
NR n5		100.0%	25.60	24.50	25.60	24.50	25.53	24.70	25.53	24.70	25.53	24.70	25.53	24.70	24.70	24.70	
NR n7		100.0%	18.64	18.50	18.64	18.50	19.67	19.50	19.67	19.50	19.57	19.50	19.57	19.50	23.70	23.70	
NR n12		100.0%	26.60	24.70	26.60	24.70	27.73	24.70	27.73	24.70	27.73	24.70	27.73	24.70	24.70	24.70	
NR n14		100.0%	25.08	24.50	25.08	24.50	25.90	24.50	25.90	24.50	25.90	24.50	25.90	24.50	24.70	24.70	
NR n25/2		100.0%	20.84	20.70	20.84	20.70	21.31	20.40	21.31	20.40	20.50	20.40	20.50	20.40	23.40	23.40	
NR n26		100.0%	25.01	24.50	25.01	24.50	25.21	24.70	25.21	24.70	25.21	24.70	25.21	24.70	24.70	24.70	
NR n30		100.0%	22.37	22.30	22.37	22.30	23.10	23.00	23.10	23.00	23.10	23.00	23.10	23.00	23.20	23.20	
NR n41		100.0%	18.62	18.50	18.62	18.50	19.51	19.50	19.51	19.50	19.50	19.50	19.50	19.50	25.70	25.70	
NR n53		100.0%	19.54	19.00	19.54	19.00	19.76	19.60	19.76	19.60	19.76	19.60	19.76	19.60	20.70	20.70	
NR n66		100.0%	20.10	20.00	20.10	20.00	21.76	19.70	21.76	19.70	19.78	19.70	19.78	19.70	25.70	25.70	
NR n70		100.0%	21.10	21.00	21.10	21.00	21.48	20.60	21.48	20.60	20.70	20.60	20.70	20.60	25.70	25.70	
NR n71		100.0%	25.72	24.70	25.72	24.70	26.69	24.70	26.69	24.70	26.69	24.70	26.69	24.70	24.70	24.70	

Exposure Scenario		Duty Cycle	Head				Body & Hotspot				Hotspot				P_{max} (dBm)		
Spatial-average			1-g				1-g				1-g						
Test Distance			0 mm				5 mm				5 mm						
Power Mode (DS)			DS1: 0				DS1: 1				DS1: 1						
Antenna	Tech/Band	P_{max} (dBm)	P_{max} + Uncertainty (dBm)	P_{avg} (dBm)	P_{max} + Uncertainty (dBm)	P_{max} (dBm)	P_{max} + Uncertainty (dBm)	P_{avg} (dBm)	P_{max} + Uncertainty (dBm)	P_{max} (dBm)	P_{max} + Uncertainty (dBm)	P_{avg} (dBm)	P_{max} + Uncertainty (dBm)	Burst Average	Frame Average		
		Burst Average		Frame Average		Burst Average		Frame Average		Burst Average		Frame Average		Burst Average	Frame Average		
ANT 3	GSM 1900 2 slots	25.0%	34.53	29.30	28.51	23.28	28.78	27.80	22.76	21.78	27.85	27.80	21.83	21.78	31.50	25.48	
	W-CDMA B2	100.0%	28.06	23.30	28.06	23.30	22.06	21.90	22.06	21.90	21.95	21.90	21.95	21.90	25.50	25.50	
	W-CDMA B4	100.0%	30.90	22.80	30.90	22.80	22.36	22.30	22.36	22.30	22.36	22.30	22.36	22.30	25.50	25.50	
	LTE Band 5	100.0%	34.36	25.40	34.36	25.40	28.68	25.30	28.68	25.30	28.68	25.30	28.68	25.30	25.40	25.40	
	LTE Band 7	100.0%	29.87	21.80	29.87	21.80	21.15	21.00	21.15	21.00	21.15	21.00	21.15	21.00	25.00	25.00	
	LTE Band 12/17	100.0%	35.59	25.40	35.59	25.40	27.63	25.40	27.63	25.40	27.63	25.40	27.63	25.40	25.40	25.40	
	LTE Band 13	100.0%	34.21	25.40	34.21	25.40	27.73	25.40	27.73	25.40	27.73	25.40	27.73	25.40	25.40	25.40	
	LTE Band 14	100.0%	35.28	25.40	35.28	25.40	28.43	25.40	28.43	25.40	28.43	25.40	28.43	25.40	25.40	25.40	
	LTE Band 25/2	100.0%	28.73	23.30	28.73	23.30	21.94	21.90	21.94	21.90	21.94	21.90	21.94	21.90	25.50	25.50	
	LTE Band 26	100.0%	33.74	25.40	33.74	25.40	28.27	25.30	28.27	25.30	28.27	25.30	28.27	25.30	25.40	25.40	
	LTE Band 30	100.0%	27.85	22.30	27.85	22.30	20.40	20.20	20.40	20.20	20.40	20.20	20.40	20.20	25.00	25.00	
	LTE Band 41	63.3%	28.38	24.70	28.38	22.71	22.52	20.90	20.53	18.91	21.00	20.90	19.01	18.91	25.70	23.71	
	LTE Band 66/4	100.0%	31.01	22.80	31.01	22.80	22.12	22.10	22.12	22.10	22.12	22.10	22.12	22.10	25.50	25.50	
	LTE Band 71	100.0%	36.24	25.40	36.24	25.40	27.20	25.40	27.20	25.40	27.20	25.40	27.20	25.40	25.40	25.40	
	NR n5	100.0%	33.74	25.40	33.74	25.40	26.60	25.30	26.60	25.30	26.60	25.30	26.60	25.30	25.40	25.40	
	NR n7	100.0%	29.46	21.80	29.46	21.80	21.70	21.50	21.70	21.50	21.70	21.50	21.70	21.50	25.00	25.00	
	NR n12	100.0%	35.00	25.40	35.00	25.40	27.69	25.40	27.69	25.40	27.69	25.40	27.69	25.40	25.40	25.40	
	NR n14	100.0%	35.13	25.40	35.13	25.40	28.35	25.40	28.35	25.40	28.35	25.40	28.35	25.40	25.40	25.40	
	NR n25/2	100.0%	28.32	23.30	28.32	23.30	22.39	22.20	22.39	22.20	22.39	22.20	22.39	22.20	25.50	25.50	
	NR n26	100.0%	33.87	25.40	33.87	25.40	27.41	25.30	27.41	25.30	27.41	25.30	27.41	25.30	25.40	25.40	
	NR n30	100.0%	27.71	22.30	27.71	22.30	20.54	20.20	20.54	20.20	20.54	20.20	20.54	20.20	24.50	24.50	
NR n41	100.0%	26.86	22.70	26.86	22.70	19.71	18.90	19.71	18.90	19.11	18.90	19.11	18.90	25.70	25.70		
NR n66	100.0%	29.23	22.80	29.23	22.80	22.72	22.50	22.72	22.50	22.72	22.50	22.72	22.50	25.50	25.50		
NR n70	100.0%	30.48	22.80	30.48	22.80	23.56	23.50	23.56	23.50	23.56	23.50	23.56	23.50	25.50	25.50		
NR n71	100.0%	36.68	25.40	36.68	25.40	28.33	25.40	28.33	25.40	28.33	25.40	28.33	25.40	25.40	25.40		
ANT 4	GSM 1900 2 slots	25.0%	26.61	26.60	20.59	20.58	27.80	27.70	21.78	21.68	27.80	27.70	21.78	21.68	29.00	22.98	
	W-CDMA B2	100.0%	19.86	19.80	19.86	19.80	20.42	20.40	20.42	20.40	20.42	20.40	20.42	20.40	23.40	23.40	
	W-CDMA B4	100.0%	19.97	19.80	19.97	19.80	23.27	22.40	23.27	22.40	22.47	22.40	22.47	22.40	23.40	23.40	
	LTE Band 7	100.0%	20.04	20.00	20.04	20.00	21.12	20.40	21.12	20.40	20.47	20.40	20.47	20.40	22.70	22.70	
	LTE Band 25/2	100.0%	21.15	21.10	21.15	21.10	21.38	21.30	21.38	21.30	21.38	21.30	21.38	21.30	22.90	22.90	
	LTE Band 30	100.0%	21.76	21.70	21.76	21.70	22.95	19.90	22.95	19.90	20.00	19.90	20.00	19.90	22.70	22.70	
	LTE Band 41	63.3%	22.20	22.10	20.21	20.11	22.37	20.39	18.81	18.81	20.86	20.80	18.88	18.81	25.70	23.71	
	LTE Band 48	63.3%	24.34	23.20	22.35	21.21	21.68	21.60	19.70	19.61	21.68	21.60	19.70	19.61	24.70	22.71	
	LTE Band 66/4	100.0%	20.88	20.80	20.88	20.80	21.84	21.70	21.84	21.70	21.84	21.70	21.84	21.70	25.20	25.20	
	MSS	100.0%	N/A	N/A	N/A	N/A	24.20	21.50	24.20	21.50	22.59	21.50	22.59	21.50	25.80	25.80	
	NR n7	100.0%	20.45	20.40	20.45	20.40	21.12	20.50	21.12	20.50	20.70	20.50	20.70	20.50	22.70	22.70	
	NR n25/2	100.0%	21.21	21.10	21.21	21.10	21.76	21.70	21.76	21.70	21.76	21.70	21.76	21.70	22.90	22.90	
	NR n30	100.0%	21.51	21.50	21.51	21.50	22.26	20.00	22.26	20.00	20.01	20.00	20.01	20.00	22.20	22.20	
	NR n41	100.0%	20.17	20.10	20.17	20.10	19.90	18.80	19.90	18.80	18.97	18.80	18.97	18.80	25.70	25.70	
	NR n48	100.0%	21.76	21.20	21.76	21.20	19.77	19.60	19.77	19.60	19.77	19.60	19.77	19.60	24.70	24.70	
	NR n66	100.0%	21.08	21.00	21.08	21.00	22.83	22.40	22.83	22.40	22.51	22.40	22.51	22.40	25.20	25.20	
	NR n70	100.0%	22.64	22.50	22.64	22.50	23.58	23.10	23.58	23.10	23.24	23.10	23.24	23.10	25.20	25.20	
	NR n77	100.0%	21.09	21.00	21.09	21.00	20.04	19.90	20.04	19.90	20.04	19.90	20.04	19.90	25.20	25.20	
	ANT 7	LTE Band 48	63.3%	32.55	25.00	30.57	23.01	23.37	22.80	21.38	20.81	22.88	22.80	20.90	20.81	25.60	23.61
		NR n48	100.0%	29.36	23.00	29.36	23.00	23.01	20.80	23.01	20.80	20.91	20.80	20.91	20.80	25.60	25.60
		NR n77	100.0%	29.93	22.80	29.93	22.80	20.95	20.80	20.95	20.80	20.95	20.80	20.95	20.80	25.70	25.70
ANT 8	LTE Band 48	63.3%	20.45	20.40	18.47	18.41	25.66	20.90	23.67	18.91	21.90	20.90	19.91	18.91	24.90	22.91	
	NR n48	100.0%	18.56	18.40	18.56	18.40	21.57	18.90	21.57	18.90	19.04	18.90	19.04	18.90	24.90	24.90	
ANT 9	NR n77	100.0%	18.91	18.70	18.91	18.70	20.86	18.10	20.86	18.10	18.48	18.10	18.48	18.10	25.70	25.70	
ANT 9	LTE Band 48	63.3%	36.34	23.50	34.36	21.51	20.93	20.90	18.95	18.91	20.93	20.90	18.95	18.91	25.40	23.41	
	NR n48	100.0%	34.24	21.50	34.24	21.50	18.91	18.90	18.91	18.90	18.91	18.90	18.91	18.90	25.40	25.40	
ANT 9	NR n77	100.0%	30.80	18.50	30.80	18.50	17.44	17.40	17.44	17.40	17.44	17.40	17.44	17.40	25.70	25.70	

Therefore, for this EUT, SAR and conducted power measurements at P_{limit} will be the same as those performed at P_{max} . SAR measured at P_{max} can be leveraged in this section to avoid re-testing. The worst-case reported SAR values for Sub-6 GHz are listed in §4.4 of the Part 0 report and the worst-case reported WLAN SAR results are listed in Table 6-2 and Table 6-3.

Table 6-2: Worst-case reported WLAN SAR (Power State 4)

Techonology	Freq (GHz)	ANT			Reported 1-g SAR (W/kg)			P _{max}		
		Head	Body & Hotspot	Hotspot	Head	Body & Hotspot	Hotspot	Head	Body & Hotspot	Hotspot
WLAN	2.4	ANT 4	ANT 4	ANT 4	0.389	0.445	0.406	21.50	21.50	21.50
	5.2	ANT 6	ANT 5	ANT 5	0.389	0.436	0.334	16.50	17.75	17.75
	5.3	N/A	ANT 6	ANT 6	N/A	0.439	0.176	N/A	18.50	18.50
	5.5	ANT 6	ANT 6	ANT 6	0.346	0.447	0.414	20.50	16.00	19.75
	5.8	ANT 6	ANT 5	ANT 6	0.383	0.456	0.277	20.50	20.25	19.75
Techonology	Freq (GHz)	ANT			Reported PD SAR (W/m ²)			P _{max}		
		Head	Body & Hotspot	Hotspot	Head	Body & Hotspot	Hotspot	Head	Body & Hotspot	Hotspot
WLAN	6.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7.0	N/A	ANT 6	ANT 6	N/A	3.013	3.013	N/A	8.75	8.75

Table 6-3: Worst-case reported WLAN SAR (Power State 6)

Techonology	Freq (GHz)	ANT			Reported 1-g SAR (W/kg)			P _{max}		
		Head	Body & Hotspot	Hotspot	Head	Body & Hotspot	Hotspot	Head	Body & Hotspot	Hotspot
WLAN	2.4	ANT 4	ANT 4	ANT 4	0.310	0.359	0.345	21.50	21.50	21.50
	5.2	ANT 6	ANT 5	ANT 5	0.309	0.298	0.298	16.50	17.75	17.75
	5.3	N/A	ANT 6	ANT 6	N/A	0.349	0.139	N/A	18.50	18.50
	5.5	ANT 6	ANT 6	ANT 6	0.218	0.355	0.329	20.50	16.00	19.75
	5.8	ANT 6	ANT 5	ANT 5	0.304	0.359	0.138	20.50	20.25	20.25
Techonology	Freq (GHz)	ANT			Reported PD SAR (W/m ²)			P _{max}		
		Head	Body & Hotspot	Hotspot	Head	Body & Hotspot	Hotspot	Head	Body & Hotspot	Hotspot
WLAN	6.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7.0	N/A	ANT 6	ANT 6	N/A	2.393	2.393	N/A	9.75	9.75

Note that WLAN SAR for each of the bands in the above table lists the worst-case SAR out of both WLAN antennas and WLAN MIMO.

6.2. PD Measurement Results at input.power.limit

Tables 5-1 to 5-3 list the beams selected for PD verification test for this EUT and Tables 6-4 to 6-6 list the corresponding PD measurement results at 2 mm spacing. Qualcomm’s Smart Transmit algorithm operates based on time-averaged transmit power reported on a per symbol basis, which is independent of modulation, channel, and bandwidth (RBs). Therefore, PD measurements in Table 6-4 to 6-6 were conducted with the EUT in *Factory Test Mode* (FTM), with CW modulation and on the worst-case channel determined through simulations (See Appendix B of the Part 0 report), with the EUT transmitting at *input.power.limit* (listed in Table 5-7 of the Part 0 report) corresponding to the tested beams.

All 4cm² PD values for the selected beams are listed in Tables 5-3 to 5-5. In addition to these selected beams, 4cm² PD for a few more beams were used in the Part 2 report.

Table 6-4: PD Measurement results n258

Module/Antenna	Frequency		Beam ID1	Beam ID2	input.power.limit	CC	BW	RB	Signal Type	DUT Surface	Normal psPD	Total psPD
	MHz	Ch.	V	H	dBm	#	MHz	#			W/m ²	W/m ²
ANT M2	25200	2032499	43		-0.2	1	100	1	CW	Back	3.950	4.570
	25200	2032499	43	171	-3.5	1	100	1	CW	Back	3.520	3.990
	24800	2025833		163	1.1	1	50	1	CW	Back	5.010	5.600
	24800	2025833		163	1.1	1	50	1	CW	Left	1.300	1.350
Module/Antenna	Frequency		Beam ID1	Beam ID2	input.power.limit	CC	BW	RB	Signal Type	DUT Surface	Normal psPD	Total psPD
	MHz	Ch.	V	H	dBm	#	MHz	#			W/m ²	W/m ²
ANT M1	25200	2032499		146	4.9	1	100	1	CW	Back	3.210	3.950
	25200	2032499	18	146	1.7	1	100	1	CW	Back	2.830	3.230
	24350	2018333	29		5.2	1	100	1	CW	Back	3.710	5.060
	24350	2018333	29		5.2	1	100	1	CW	Left	0.784	0.968
	24350	2018333	29		5.2	1	100	1	CW	Top	0.035	0.050
Module/Antenna	Frequency		Beam ID1	Beam ID2	input.power.limit	CC	BW	RB	Signal Type	DUT Surface	Normal psPD	Total psPD
	MHz	Ch.	V	H	dBm	#	MHz	#			W/m ²	W/m ²
ANT M3	24350	2018333	38		-0.4	1	100	1	CW	Right	3.210	4.590
	25200	2032499	39	167	-4.3	1	100	1	CW	Right	2.970	3.520
	24800	2025833		166	-0.2	1	50	1	CW	Right	3.600	5.510
	24800	2025833		166	-0.2	1	50	1	CW	Back	1.340	1.340
	24800	2025833		166	-0.2	1	50	1	CW	Front	0.948	1.010

Dominant Surface	Module	Printed Backoff Value b_j (linear)	FCC PD Limit (W/m ²)	$b_j * PD_{\text{Design Target}} + \text{Total Uncertainty (W/m}^2\text{)}$	Beam/Beam-pair ID	Measured PD (W/m ²)	Meas. PD $\leq b_j * PD_{\text{Design Target}} + \text{Total Uncertainty Criteria 1}$	Surface	Contribution Factor $c(i, j)$
S2 (Back)	0	0.9772	10	6.108	163	5.600	Pass: 5.6 \leq 6.108	S2	1.0000
	1	0.9120	10	5.700	166	5.510	Pass: 5.51 \leq 5.7	S4	0.0019
Criteria 2 Verification: $(1 * 5.6) + (0.0019 * 5.51) = 5.61 \leq 6.25$									
S4 (Right)	0	0.9772	10	6.108	163	5.600	Pass: 5.6 \leq 6.108	S2	0.0150
	1	0.9120	10	5.700	166	5.510	Pass: 5.51 \leq 5.7	S4	1.0000
Criteria 2 Verification: $(0.015 * 5.6) + (1 * 5.51) = 5.594 \leq 6.25$									

Note: Module 0 contains antennas M1 and M2; module 1 contains antenna M3

Table 6-5: PD Measurement results n260

Module/Antenna	Frequency		Beam ID1	Beam ID2	input.power.limit	CC	BW	RB	Signal Type	DUT Surface	Normal psPD	Total psPD
	MHz	Ch.	V	H	dBm	#	MHz	#			W/m ²	W/m ²
ANT M2	39950	2277500	44		1.7	1	100	1	CW	Back	3.840	4.100
	38500	2253330		163	0.7	1	100	1	CW	Back	3.910	4.190
	38500	2253330	35	163	-1.9	1	100	1	CW	Back	4.220	4.440
	38500	2253330	35	163	-1.9	1	100	1	CW	Left	0.572	0.616
Module/Antenna	Frequency		Beam ID1	Beam ID2	input.power.limit	CC	BW	RB	Signal Type	DUT Surface	Normal psPD	Total psPD
	MHz	Ch.	V	H	dBm	#	MHz	#			W/m ²	W/m ²
ANT M1	37050	2229167	19		7.9	1	100	1	CW	Back	2.320	3.330
	37050	2229167		147	8.6	1	100	1	CW	Back	3.160	3.490
	37050	2229167	18	146	5.4	1	100	66	CW	Back	3.940	4.420
	37050	2229167	18	146	5.4	1	100	66	CW	Left	0.332	0.368
	37050	2229167	18	146	5.4	1	100	66	CW	Top	0.458	0.540
Module/Antenna	Frequency		Beam ID1	Beam ID2	input.power.limit	CC	BW	RB	Signal Type	DUT Surface	Normal psPD	Total psPD
	MHz	Ch.	V	H	dBm	#	MHz	#			W/m ²	W/m ²
ANT M3	39950	2277500	50		0	1	100	1	CW	Right	1.930	2.310
	37050	2229167	50	178	-3.2	1	100	1	CW	Right	2.350	3.340
	38500	2253330		177	1	1	100	1	CW	Right	4.300	5.960
	38500	2253330		177	1	1	100	1	CW	Back	0.738	0.745
	38500	2253330		177	1	1	100	1	CW	Front	0.644	0.654

Dominant Surface	Module	Printed Backoff Value b_j (linear)	FCC PD Limit (W/m ²)	$b_j * PD_{Design Target} + Total Uncertainty (W/m^2)$	Beam/Beam-pair ID	Measured PD (W/m ²)	Meas. PD $\leq b_j * PD_{Design Target} + Total Uncertainty$ Criteria 1	Surface	Contribution Factor $c(i, j)$
S4 (Right)	0	0.9772	10	6.108	35/163	4.440	Pass: 4.44 \leq 6.108	S2	0.0137
	1	0.9550	10	5.969	177	5.960	Pass: 5.96 \leq 5.969	S4	1.0000
Criteria 2 Verification: $(0.0137 * 4.44) + (1 * 5.96) = 6.021 \leq 6.25$									
S2 (Back)	0	0.9772	10	6.108	35/163	4.440	Pass: 4.44 \leq 6.108	S2	1.0000
	1	0.9550	10	5.969	177	5.960	Pass: 5.96 \leq 5.969	S4	0.0018
Criteria 2 Verification: $(1 * 4.44) + (0.0018 * 5.96) = 4.451 \leq 6.25$									

Note: Module 0 contains antennas M1 and M2; module 1 contains antenna M3

Table 6-6: PD Measurement results n261

Module/Antenna	Frequency		Beam ID1	Beam ID2	input.power.limit	CC	BW	RB	Signal Type	DUT Surface	Normal psPD	Total psPD
	MHz	Ch.	V	H	dBm	#	MHz	#			W/m ²	W/m ²
ANT M2	28300	2083330		171	-0.4	1	100	1	CW	Back	2.230	3.000
	27550	2070833	43	171	-3.9	1	100	1	CW	Back	2.030	2.460
	27550	2070833	33		0.6	1	100	33	CW	Back	3.250	4.070
	27550	2070833	33		0.6	1	100	33	CW	Left	0.491	0.626
Module/Antenna	Frequency		Beam ID1	Beam ID2	input.power.limit	CC	BW	RB	Signal Type	DUT Surface	Normal psPD	Total psPD
	MHz	Ch.	V	H	dBm	#	MHz	#			W/m ²	W/m ²
ANT M1	28300	2083330	28		5	1	100	1	CW	Back	3.120	3.650
	27550	2070833		155	5.4	1	100	1	CW	Back	3.140	3.970
	28300	2083330	18	146	2.3	1	100	1	CW	Back	4.000	4.540
	28300	2083330	18	146	2.3	1	100	1	CW	Left	0.583	0.769
	28300	2083330	18	146	2.3	1	100	1	CW	Top	0.136	0.164
Module/Antenna	Frequency		Beam ID1	Beam ID2	input.power.limit	CC	BW	RB	Signal Type	DUT Surface	Normal psPD	Total psPD
	MHz	Ch.	V	H	dBm	#	MHz	#			W/m ²	W/m ²
ANT M3	27925	2077084		175	-1.3	1	100	1	CW	Right	2.860	4.230
	27925	2077084	47	175	-4.3	1	100	1	CW	Right	2.260	2.660
	27925	2077084	42		0	1	50	1	CW	Right	3.230	5.510
	27925	2077084	42		0	1	50	1	CW	Back	1.400	1.480
	27925	2077084	42		0	1	50	1	CW	Front	3.000	3.360

Dominant Surface	Module	Printed Backoff Value b_j (linear)	FCC PD Limit (W/m ²)	$b_j * PD_{\text{design Target}} + \text{Total Uncertainty (W/m}^2\text{)}$	Beam/Beam-pair ID	Measured PD (W/m ²)	Meas. PD $\leq b_j * PD_{\text{design Target}} + \text{Total Uncertainty Criteria 1}$	Surface	Contribution Factor $c(i, j)$
S4 (Right)	0	0.9772	10	6.108	18/146	4.540	Pass: 4.54 \leq 6.108	S2	0.0022
	1	0.9120	10	5.700	42	5.510	Pass: 5.51 \leq 5.7	S4	1.0000
Criteria 2 Verification: $(0.0022 * 4.54) + (1 * 5.51) = 5.52 \leq 6.25$									
S2 (Back)	0	0.9772	10	6.108	18/146	4.540	Pass: 4.54 \leq 6.108	S2	1.0000
	1	0.9120	10	5.700	42	5.510	Pass: 5.51 \leq 5.7	S4	0.0006
Criteria 2 Verification: $(1 * 4.54) + (0.0006 * 5.51) = 4.543 \leq 6.25$									

Note: Module 0 contains antennas M1 and M2; module 1 contains antenna M3

The PD distribution plots for both point PD and 4cm² avg PD for the highest PD configuration in Tables 6-3 to 6-5 are given below.

Measurement Report for Custom Band: CW, BACK

Exposure Conditions

Band	Custom Band	Phantom Section	5G
Frequency [MHz] Channel Number	24800.0 24800000	Conversion Factor	1.0
Group UID	CW, 0--	Position Test Distance [mm]	BACK 2.00

Hardware Setup

Probe Calibration Date	EUmmWV4 - SN9496_F1-55GHz 2023-02-20	Phantom	mmWave xxxx
DAE Calibration Date	DAE4 Sn1540 2023-01-23	Medium	Air -
Software Version	3.2.2.2358		

Scan Setup

Scan Type	5G Scan	Grid Extents [mm]	25.0 x 25.0
Grid Steps [lambda]	0.16885944481471585 x 0.16885944481471585	Sensor Surface [mm]	2.0

Measurement Results

Avg. Area [cm²]	4.00
psPDn+ [W/m²]	5.01
psPDtot+ [W/m²]	5.60
psPDmod+ [W/m²]	5.97
E_{max} [V/m]	80.9
Power Drift [dB]	-0.01

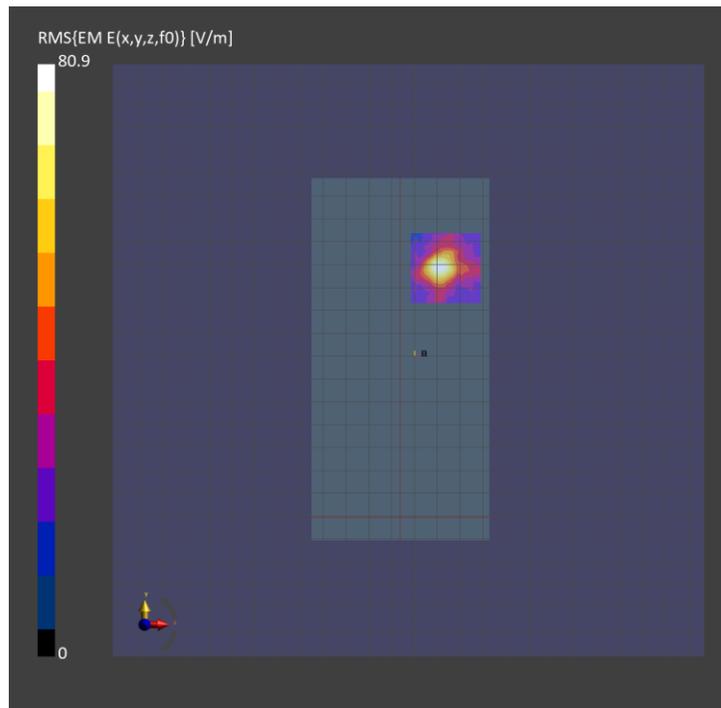


Figure 6-1: Band n258, Beam ID 163, point PD and 4cm² PD, Back

Measurement Report for Custom Band: CW, EDGE RIGHT

Exposure Conditions

Band	Custom Band	Phantom Section	5G
Frequency [MHz] Channel Number	38500.0 38500000	Conversion Factor	1.0
Group UID	CW, 0--	Position Test Distance [mm]	EDGE RIGHT 2.00

Hardware Setup

Probe Calibration Date	EUmmWV4 - SN9496_F1-55GHz 2023-02-20	Phantom	mmWave xxxx
DAE Calibration Date	DAE4 Sn1540 2023-01-23	Medium	Air -
Software Version	3.2.2.2358		

Scan Setup

Scan Type	5G Scan	Grid Extents [mm]	25.0 x 25.0
Grid Steps [lambda]	0.25 x 0.25	Sensor Surface [mm]	2.0

Measurement Results

Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	4.30
psPDtot+ [W/m ²]	5.96
psPDmod+ [W/m ²]	6.61
E _{max} [V/m]	109
Power Drift [dB]	0.10

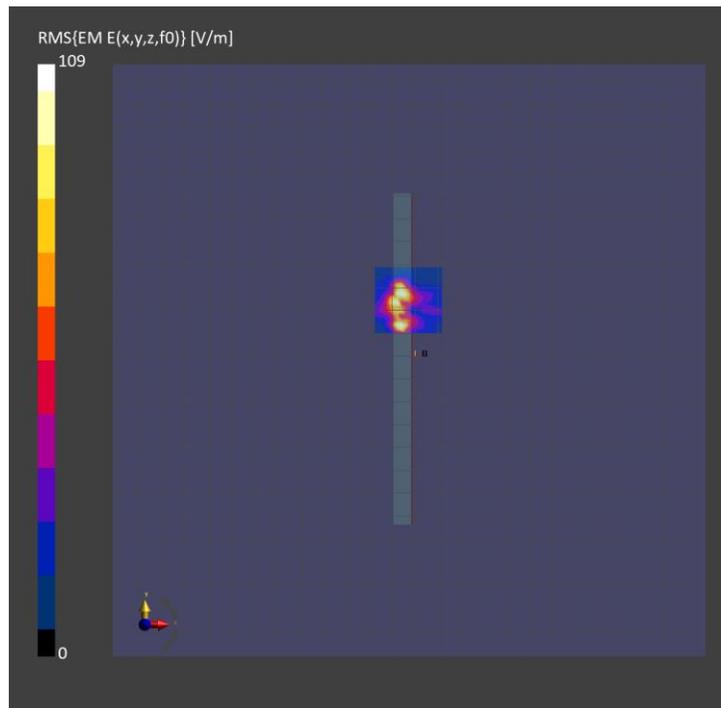


Figure 6-2: Band n260, Beam ID 177, point PD and 4cm² PD, Right

Measurement Report for Custom Band: CW, EDGE RIGHT

Exposure Conditions

Band	Custom Band	Phantom Section	5G
Frequency [MHz] Channel Number	27925.0 27925000	Conversion Factor	1.0
Group UID	CW, 0--	Position Test Distance [mm]	EDGE RIGHT 2.00

Hardware Setup

Probe Calibration Date	EUmmWV4 - SN9496_F1-55GHz 2023-02-20	Phantom	mmWave xxxx
DAE Calibration Date	DAE4 Sn1540 2023-01-23	Medium	Air -
Software Version	3.2.2.2358		

Scan Setup

Scan Type	5G Scan	Grid Extents [mm]	25.0 x 25.0
Grid Steps [lambda]	0.1901370966310863 x 0.1901370966310863	Sensor Surface [mm]	2.0

Measurement Results

Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.23
psPDtot+ [W/m ²]	5.51
psPDmod+ [W/m ²]	6.71
E _{max} [V/m]	104
Power Drift [dB]	0.04

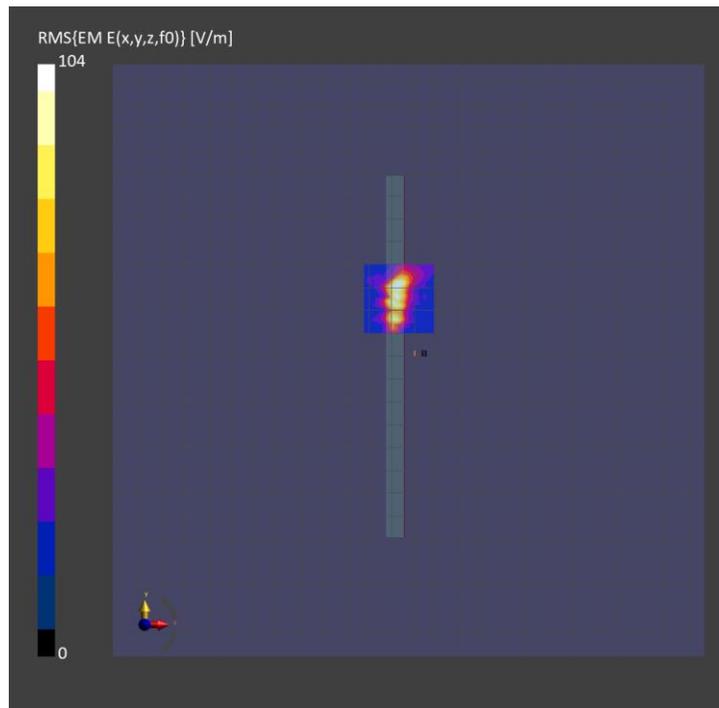


Figure 6-3: Band n261, Beam ID 42, point PD and 4cm² PD, Right

6.3. Simultaneous Transmission Analysis

The EUT supports simultaneous transmission of multiple radios. RF exposure compliance in simultaneous transmission scenarios is evaluated in this section.

It must be noted here that Qualcomm's Smart Transmit time-averaging algorithm was applied to only WWAN (Sub-6GHz/5G millimeter wave NR) on this device, where the time-averaged power level is controlled so that the RF exposure is $\leq SAR_{\text{Design Target}}$ (corresponding to P_{limit}) for Sub-6 GHz WWAN and $\leq PD_{\text{Design Target}}$ (corresponding to `input.power.limit`) for 5G millimeter wave NR. Since there is total design-related uncertainty arising from TxAGC and device-to-device variation, the worst-case RF exposure should be determined by accounting for this uncertainty in the corresponding design target, listed in Table 6-7.

Table 6-7: Worst-case time-averaged RF exposure for WWAN

Scenario	WWAN	
	Sub-6 GHz WWAN	5G mmW NR
Maximum time-averaged power level	P_{limit}	<code>input.power.limit</code>
Maximum time-averaged exposure (Design Targets)	0.8 W/kg (1-g SAR)	3.9 W/m ²
Worst-case time-averaged RF exposure	Reported SAR \dagger = 1 W/kg (1-g SAR)	Reported PD* = 3.9 W/m ²

\dagger : For this EUT, $(P_{\text{limit}} + \text{uncertainty}) \geq P_{\text{max}}$ (maximum RF output power). Therefore, time-averaged SAR exposure from Smart Transmit enabled EUT (at P_{limit}) cannot exceed the reported SAR corresponding to P_{max} listed in Table 6-1.

WLAN does not employ Qualcomm's Smart Transmit time-averaging feature in this device, reported 1-g SAR at the maximum RF tune-up output power is listed in Table 6-2 and Table 6-3.

6.3.1. Analysis

RF exposure compliance with WWAN+WLAN simultaneous transmission scenarios is demonstrated for various radio configurations using the equation below:

$$\text{Total norm. RF exposure} = \text{norm. RF exposure from Smart Transmit enabled WWAN (norm. SAR from Sub-6 GHz + norm. PD from 5G millimeter wave NR)} + \text{norm. SAR from WLAN} \leq 1.0 \text{ normalized limit (1)}$$

Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from Sub-6 GHz WWAN and time-averaged RF exposure from 5G millimeter wave NR, i.e.,

$$\text{norm. RF exposure from Smart Transmit enabled WWAN: (normalized SAR exposure from Sub-6 GHz) + (normalized PD exposure from 5G millimeter wave NR)} \leq 1.0 \text{ normalized limit (2)}$$

In other words, Smart Transmit algorithm controls the total RF exposure from both Sub-6 GHz radio and 5G millimeter wave NR to not exceed the FCC limit. Smart transmit algorithm assumes hotspots are collocated (i.e., ignoring spatial distribution of hotspots) and directly adds normalized RF exposures from Sub-6 GHz WWAN and from 5G millimeter wave NR, i.e.,

$$\begin{aligned} \text{If } A &= \text{max normalized time-averaged SAR exposure from 4G,} \\ B &= \text{max normalized time-averaged PD exposure from 5G millimeter wave NR,} \end{aligned}$$

Then, equation (2) can be re-written as below because Smart Transmit assumes Sub-6 GHz WWAN hotspots are collocated with 5G millimeter wave NR hotspot:

$$\text{Smart Transmit enabled WWAN: } x(t) * A + (1-x(t)) * B \leq 1.0 \text{ normalized limit (3)}$$

Here, " $x(t)*A$ " represents percentage of normalized time-averaged RF exposure from Sub-6 GHz WWAN, and $x(t)$ ranges between $[0, 1]$; " $(1-x(t))*B$ " is remaining percentage of RF exposure contribution from 5G millimeter wave NR. Smart Transmit controls 'x' in real time such that the sum of these exposures never exceeds the 1.0 normalized limit.

Note that mathematically:

$$x(t) * A + (1 - x(t)) * B \leq \max(A, B) \leq 1.0 \text{ normalized limit for } x(t) \in [0, 1] \quad (4)$$

Therefore, if equations (5a) and (5b) are proven:

$$A + \text{norm. SAR from WLAN} \leq 1.0 \text{ norm. limit} \quad (5a),$$

$$B + \text{norm. SAR from WLAN} \leq 1.0 \text{ norm. limit} \quad (5b),$$

Then, based on equation (4), the condition below is also proved:

$$[x(t) * A + (1 - x(t)) * B] + \text{norm. SAR from WLAN} \leq 1.0 \text{ norm. limit} \quad (5c)$$

which is the same as equation (1), as a means to demonstrate compliance for simultaneous transmission.

Additionally, it should be noted that in the absence of 5G millimeter wave NR, Smart Transmit limits the maximum RF exposure contributed from Sub-6 GHz WWAN to 100% normalized exposure (i.e., $x=1.0$ in equation 3), while with 5G millimeter wave NR active, Smart Transmit limits the maximum RF exposure contributed from 5G millimeter wave NR to 75% normalized exposure to guarantee at least 25% margin allocated to the Sub-6 GHz WWAN anchor to maintain the link (i.e., $x=0.25$ in equation 3). Therefore:

$$\text{Smart Transmit enabled WWAN: } A = \max(\text{normalized SAR exposure from 4G}) \leq 1.0 \text{ normalized limit} \quad (6a)$$

$$\text{Smart Transmit enabled WWAN: } B = \max(\text{normalized PD exposure from 5G millimeter wave NR}) \leq 0.75 \text{ normalized limit} \quad (6b)$$

Thus, for compliance demonstration given by equation (1), equation (7) is obtained by combining equations (5a & 5b) and (6a & 6b) and should be proven to guarantee simultaneous transmission compliance:

$$\text{Total normalized RF exposure} = \text{norm. SAR from 4G WWAN} + \text{norm. SAR from WLAN} < 1.0 \text{ normalized FCC limit} \quad (7a)$$

$$\text{Total normalized RF exposure} = 0.75 * \text{norm. PD from 5G millimeter wave NR WWAN} + \text{norm. SAR from WLAN} < 1.0 \text{ normalized FCC limit} \quad (7b)$$

The compliance for simultaneous transmission scenarios of WWAN (Sub-6 GHz/5G millimeter wave NR) radio enabled with Smart Transmit and WLAN without Smart Transmit is re-evaluated for all transmission scenarios supported by this EUT.

As described in equation (7), simultaneous transmission analysis for WWAN + WLAN is performed in two parts:

1. Sub-6 GHz WWAN + WLAN (i.e., Eq. (7a) with compliance demonstration in §5.3.2)
2. 5G millimeter wave NR WWAN + WLAN (i.e., Eq. (7b) with compliance demonstration in §5.3.3)

By combining equations a and b variants, the FCC requirement expressed in Eq. (1) is re-written below:

$$\text{Total norm. RF exposure} = \text{norm. RF exposure from Smart Transmit enabled WWAN (norm. SAR from Sub-6 GHz WWAN} + \text{norm. PD from 5G millimeter wave NR)} + \text{norm. SAR from WLAN} \leq 1.0 \text{ normalized limit} \quad (1)$$

6.3.2. Simultaneous Transmission Compliance Demonstration for Sub-6 GHz WWAN + WLAN

Simultaneous transmission analysis for Sub-6 WWAN + WLAN is shown in the referenced UL FCC SAR Test Report mentioned in §1.

6.3.3. Simultaneous Transmission Compliance demonstration for 5G millimeter wave NR WWAN + WLAN

Simultaneous transmission analysis is performed in this section using worst-case PD values listed in Tables 6-4 to 6-6 for compliance demonstration of 5G millimeter wave NR WWAN + WLAN.

Simultaneous transmission analysis on all 5G millimeter wave NR WWAN + WLAN scenarios are listed below:

Table 6-8: Simultaneous transmission analysis scenarios for 5G millimeter wave NR WWAN + WLAN

1	5G millimeter wave NR + 2.4 GHz WLAN*
2	5G millimeter wave NR + 2.4 GHz WLAN* + NB U-NII
3	5G millimeter wave NR + 2.4 GHz WLAN* + 802.15.4ab
4	5G millimeter wave NR + 5 GHz WLAN*
5	5G millimeter wave NR + 5 GHz WLAN* + BT
6	5G millimeter wave NR + 5 GHz WLAN* + 802.15.4
7	5G millimeter wave NR + 5 GHz WLAN* + 802.15.4ab
8	5G millimeter wave NR + 5 GHz WLAN* + BT + 802.15.4ab
9	5G millimeter wave NR + 5 GHz WLAN* + 802.15.4 + 802.15.4ab
10	5G millimeter wave NR + 6E WLAN*
11	5G millimeter wave NR + 6E WLAN* + BT
12	5G millimeter wave NR + 6E WLAN* + 802.15.4
13	5G millimeter wave NR + 6E WLAN* + 802.15.4ab
14	5G millimeter wave NR + 6E WLAN* + BT + 802.15.4ab
15	5G millimeter wave NR + 6E WLAN* + 802.15.4 + 802.15.4ab
16	5G millimeter wave NR + BT
17	5G millimeter wave NR + BT + 802.15.4ab
18	5G millimeter wave NR + NB U-NII
19	5G millimeter wave NR + 802.15.4
20	5G millimeter wave NR + 802.15.4 + 802.15.4ab
21	5G millimeter wave NR + 802.15.4ab

*: For each of the WLAN bands, worst-case SAR out of both WLAN antennas and WLAN MIMO scenarios is used during simultaneous transmission analysis. Additionally, note that WLAN 2.4 GHz, WLAN 5 GHz, and WLAN 6E cannot transmit simultaneously.

The total exposure ratio (TER) is calculated using the equation below, followed by the calculated TER for this EUT:

$$TER = \sum_{n=1}^N \frac{SAR_n}{SAR_{n,limit}} + \sum_{m=1}^N \frac{S_{m,avg}}{S_{m,limit}} < 1$$

Table 6-9: 5G Millimeter Wave NR Simulation PD Surface Ratio for n258

n258					
Surface	PD Magnitude Ratio		Head	Body ¹	Meas. Total PD (W/m ²)
	PD Measurement Plane	SAR Measurement Plane	PD Measurement Plane (W/m ²)	SAR Measurement Plane (W/m ²)	
S1	0.454	-	2.835	2.575	1.010
S2	1.000	0.908	-	5.675	5.600
S3	0.931	-	-	5.281	1.350
S4	1.000	0.648	-	5.675	5.510
S5	0.435	-	-	2.469	0.050
S6	0.085	-	-	0.481	-

¹ Results for Body were calculated using the most conservative ratio between the PD Magnitudes for 2mm and 5mm with the following multiplier: PD_{Design Limit}

Table 6-10: 5G Millimeter Wave NR Simulation PD Surface Ratio for n260

n260					
Surface	PD Magnitude Ratio		Head	Body ¹	Meas. Total PD (W/m ²)
	PD Measurement Plane	SAR Measurement Plane	PD Measurement Plane (W/m ²)	SAR Measurement Plane (W/m ²)	
S1	0.524	-	3.275	3.038	0.654
S2	1.000	0.927	-	5.794	4.440
S3	0.798	-	-	4.619	0.616
S4	1.000	0.762	-	5.794	5.960
S5	0.715	-	-	4.138	0.540
S6	0.077	-	-	0.444	-

¹ Results for Body were calculated using the most conservative ratio between the PD Magnitudes for 2mm and 5mm with the following multiplier: PD_{Design Limit}

Table 6-11: 5G Millimeter Wave NR Simulation PD Surface Ratio for n261

n261					
Surface	PD Magnitude Ratio		Head	Body ¹	Meas. Total PD (W/m ²)
	PD Measurement Plane	SAR Measurement Plane	PD Measurement Plane (W/m ²)	SAR Measurement Plane (W/m ²)	
S1	0.455	-	2.845	2.656	3.360
S2	1.000	0.933	-	5.831	4.540
S3	0.842	-	-	4.906	0.769
S4	1.000	0.662	-	5.831	5.510
S5	0.453	-	-	2.644	0.164
S6	0.058	-	-	0.338	-

¹ Results for Body were calculated using the most conservative ratio between the PD Magnitudes for 2mm and 5mm with the following multiplier: PD_{Design Limit}

Table 6-12: TER for Worst-case WLAN + 5G Millimeter Wave NR for n258 Head

n258								
Head TER	psPD	Wi-Fi 2.4 GHz Power State 4 Mode A	Wi-Fi 2.4 GHz Power State 6 Mode A	NB U-NII P _{Low} Mode A	802.15.4ab Mode A	psPD + Wi-Fi 2.4 GHz Power State 4	psPD + Wi-Fi 2.4 GHz Power State 4 + NB U-NII P _{Low}	psPD + Wi-Fi 2.4 GHz Power State 6 + 802.15.4ab
	W/m ²	W/kg	W/kg	W/kg	W/kg	W/kg		
TER Combinations	1	2	3	4	5	1+2	1+2+4	1+3+5
Applicable limit	10	1.6	1.6	1.6	1.6	1	1	1
Reported Exposure	2.835	0.389	0.310	0.010	0.034	-	-	-
Ratio to Limit	0.284	0.243	0.194	0.006	0.021	0.527	0.533	0.499

n258												
Head TER	psPD	Wi-Fi 5 GHz Power State 4 Mode A	Wi-Fi 5 GHz Power State 6 Mode A	Bluetooth (2.4 GHz) P _{Low} Mode A	802.15.4 P _{Low} Mode A	802.15.4ab Mode A	psPD + Wi-Fi 5 GHz Power State 4	psPD + Wi-Fi 5 GHz Power State 4 + Bluetooth (2.4 GHz) P _{Low}	psPD + Wi-Fi 5 GHz Power State 4 + 802.15.4 P _{Low}	psPD + Wi-Fi 5 GHz Power State 6 + 802.15.4ab	psPD + Wi-Fi 5 GHz Power State 6 + Bluetooth (2.4 GHz) P _{Low} + 802.15.4ab	psPD + Wi-Fi 5 GHz Power State 6 + 802.15.4 P _{Low} + 802.15.4ab
	W/m ²	W/kg	W/kg	W/kg	W/kg	W/kg	W/kg	W/kg	W/kg	W/kg	W/kg	W/kg
TER Combinations	1	2	3	4	5	6	1+2	1+2+4	1+2+5	1+3+6	1+3+4+6	1+3+5+6
Applicable limit	10	1.6	1.6	1.6	1.6	1.6	1	1	1	1	1	1
Reported Exposure	2.835	0.389	0.309	0.066	0.019	0.034	-	-	-	-	-	-
Ratio to Limit	0.284	0.243	0.193	0.042	0.012	0.021	0.527	0.569	0.539	0.498	0.540	0.510

n258												
Head TER	psPD	Wi-Fi 6E Power State 4 Mode A	Wi-Fi 6E Power State 6 Mode A	Bluetooth (2.4 GHz) P _{Low} Mode A	802.15.4 P _{Low} Mode A	802.15.4ab Mode A	psPD + Wi-Fi 6E Power State 4	psPD + Wi-Fi 6E Power State 4 + Bluetooth (2.4 GHz) P _{Low}	psPD + Wi-Fi 6E Power State 4 + 802.15.4 P _{Low}	psPD + Wi-Fi 6E Power State 6 + 802.15.4ab	psPD + Wi-Fi 6E Power State 6 + Bluetooth (2.4 GHz) P _{Low} + 802.15.4ab	psPD + Wi-Fi 6E Power State 6 + 802.15.4 P _{Low} + 802.15.4ab
	W/m ²	W/kg	W/kg	W/kg	W/kg	W/kg	W/kg	W/kg	W/kg	W/kg	W/kg	W/kg
TER Combinations	1	2	3	4	5	6	1+2	1+2+4	1+2+5	1+3+6	1+3+4+6	1+3+5+6
Applicable limit	10	10	10	1.6	1.6	1.6	1	1	1	1	1	1
Reported Exposure	2.835	3.013	2.393	0.066	0.019	0.034	-	-	-	-	-	-
Ratio to Limit	0.284	0.301	0.239	0.042	0.012	0.021	0.585	0.627	0.597	0.544	0.586	0.556

n258					
Head TER	psPD	Bluetooth (2.4 GHz) P _{High} Mode A	802.15.4ab Mode A	psPD + Bluetooth (2.4 GHz) P _{High}	psPD + Bluetooth (2.4 GHz) P _{High} + 802.15.4ab
	W/m ²	W/kg	W/kg	W/kg	W/kg
TER Combinations	1	2	3	1+2	1+2+3
Applicable limit	10	1.6	1.6	1	1
Reported Exposure	2.835	0.339	0.034	-	-
Ratio to Limit	0.284	0.212	0.021	0.496	0.517

n258			
Head TER	psPD	NB U-NII P _{High} Mode A	psPD + NB U-NII P _{High}
	W/m ²	W/kg	
TER Combinations	1	2	1+2
Applicable limit	10	1.6	1
Reported Exposure	2.835	0.275	-
Ratio to Limit	0.284	0.172	0.456

n258						
Head TER	psPD	802.15.4 P _{High} Mode A	802.15.4ab Mode A	psPD + 802.15.4 P _{High}	psPD + 802.15.4ab	psPD + 802.15.4 P _{High} + 802.15.4ab
	W/m ²	W/kg	W/kg			
TER Combinations	1	2	3	1+2	1+3	1+2+3
Applicable limit	10	1.6	1.6	1	1	1
Reported Exposure	2.835	0.268	0.034	-	-	-
Ratio to Limit	0.284	0.167	0.021	0.451	0.305	0.472

Table 6-13: TER for Worst-case WLAN + 5G Millimeter Wave NR for n260 Head

n260								
Head TER	psPD	Wi-Fi 2.4 GHz Power State 4 Mode A	Wi-Fi 2.4 GHz Power State 6 Mode A	NB U-NII P _{Low} Mode A	802.15.4ab Mode A	psPD + Wi-Fi 2.4 GHz Power State 4	psPD + Wi-Fi 2.4 GHz Power State 4 + NB U-NII P _{Low}	psPD + Wi-Fi 2.4 GHz Power State 6 + 802.15.4ab
	W/m ²	W/kg	W/kg	W/kg	W/kg			
TER Combinations	1	2	3	4	5	1+2	1+2+4	1+3+5
Applicable limit	10	1.6	1.6	1.6	1.6	1	1	1
Reported Exposure	3.275	0.389	0.310	0.010	0.034	-	-	-
Ratio to Limit	0.328	0.243	0.194	0.006	0.021	0.571	0.577	0.543

n260												
Head TER	psPD	Wi-Fi 5 GHz Power State 4 Mode A	Wi-Fi 5 GHz Power State 6 Mode A	Bluetooth (2.4 GHz) P _{Low} Mode A	802.15.4 P _{Low} Mode A	802.15.4ab Mode A	psPD + Wi-Fi 5 GHz Power State 4	psPD + Wi-Fi 5 GHz Power State 4 + Bluetooth (2.4 GHz) P _{Low}	psPD + Wi-Fi 5 GHz Power State 4 + 802.15.4 P _{Low}	psPD + Wi-Fi 5 GHz Power State 6 + 802.15.4ab	psPD + Wi-Fi 5 GHz Power State 6 + Bluetooth (2.4 GHz) P _{Low} + 802.15.4ab	psPD + Wi-Fi 5 GHz Power State 6 + 802.15.4 P _{Low} + 802.15.4ab
	W/m ²	W/kg	W/kg	W/kg	W/kg	W/kg						
TER Combinations	1	2	3	4	5	6	1+2	1+2+4	1+2+5	1+3+6	1+3+4+6	1+3+5+6
Applicable limit	10	1.6	1.6	1.6	1.6	1.6	1	1	1	1	1	1
Reported Exposure	3.275	0.389	0.309	0.066	0.019	0.034	-	-	-	-	-	-
Ratio to Limit	0.328	0.243	0.193	0.042	0.012	0.021	0.571	0.613	0.583	0.542	0.584	0.554

n260												
Head TER	psPD	Wi-Fi 6E Power State 4 Mode A	Wi-Fi 6E Power State 6 Mode A	Bluetooth (2.4 GHz) P _{Low} Mode A	802.15.4 P _{Low} Mode A	802.15.4ab Mode A	psPD + Wi-Fi 6E Power State 4	psPD + Wi-Fi 6E Power State 4 + Bluetooth (2.4 GHz) P _{Low}	psPD + Wi-Fi 6E Power State 4 + 802.15.4 P _{Low}	psPD + Wi-Fi 6E Power State 6 + 802.15.4ab	psPD + Wi-Fi 6E Power State 6 + Bluetooth (2.4 GHz) P _{Low} + 802.15.4ab	psPD + Wi-Fi 6E Power State 6 + 802.15.4 P _{Low} + 802.15.4ab
	W/m ²	W/kg	W/kg	W/kg	W/kg	W/kg						
TER Combinations	1	2	3	4	5	6	1+2	1+2+4	1+2+5	1+3+6	1+3+4+6	1+3+5+6
Applicable limit	10	10	10	1.6	1.6	1.6	1	1	1	1	1	1
Reported Exposure	3.275	3.013	2.393	0.066	0.019	0.034	-	-	-	-	-	-
Ratio to Limit	0.328	0.301	0.239	0.042	0.012	0.021	0.629	0.671	0.641	0.588	0.630	0.600

n260					
Head TER	psPD	Bluetooth (2.4 GHz) P _{High} Mode A	802.15.4ab Mode A	psPD + Bluetooth (2.4 GHz) P _{High}	psPD + Bluetooth (2.4 GHz) P _{High} + 802.15.4ab
	W/m ²	W/kg	W/kg		
TER Combinations	1	2	3	1+2	1+2+3
Applicable limit	10	1.6	1.6	1	1
Reported Exposure	3.275	0.339	0.034	-	-
Ratio to Limit	0.328	0.212	0.021	0.540	0.561

n260			
Head TER	psPD	NB U-NII P _{High} Mode A	psPD + NB U-NII P _{High}
	W/m ²	W/kg	
TER Combinations	1	2	1+2
Applicable limit	10	1.6	1
Reported Exposure	3.275	0.275	-
Ratio to Limit	0.328	0.172	0.500

n260						
Head TER	psPD	802.15.4 P _{High} Mode A	802.15.4ab Mode A	psPD + 802.15.4 P _{High}	psPD + 802.15.4ab	psPD + 802.15.4 P _{High} + 802.15.4ab
	W/m ²	W/kg	W/kg			
TER Combinations	1	2	3	1+2	1+3	1+2+3
Applicable limit	10	1.6	1.6	1	1	1
Reported Exposure	3.275	0.268	0.034	-	-	-
Ratio to Limit	0.328	0.167	0.021	0.495	0.349	0.516

Table 6-14: TER for Worst-case WLAN + 5G Millimeter Wave NR for n261 Head

n261								
Head TER	psPD	Wi-Fi 2.4 GHz Power State 4 Mode A	Wi-Fi 2.4 GHz Power State 6 Mode A	NB U-NII P _{Low} Mode A	802.15.4ab Mode A	psPD + Wi-Fi 2.4 GHz Power State 4	psPD + Wi-Fi 2.4 GHz Power State 4 + NB U-NII P _{Low}	psPD + Wi-Fi 2.4 GHz Power State 6 + 802.15.4ab
	W/m ²	W/kg	W/kg	W/kg	W/kg			
TER Combinations	1	2	3	4	5	1+2	1+2+4	1+3+5
Applicable limit	10	1.6	1.6	1.6	1.6	1	1	1
Reported Exposure	2.845	0.389	0.310	0.010	0.034	-	-	-
Ratio to Limit	0.284	0.243	0.194	0.006	0.021	0.527	0.533	0.499

n261												
Head TER	psPD	Wi-Fi 5 GHz Power State 4 Mode A	Wi-Fi 5 GHz Power State 6 Mode A	Bluetooth (2.4 GHz) P _{Low} Mode A	802.15.4 P _{Low} Mode A	802.15.4ab Mode A	psPD + Wi-Fi 5 GHz Power State 4	psPD + Wi-Fi 5 GHz Power State 4 + Bluetooth (2.4 GHz) P _{Low}	psPD + Wi-Fi 5 GHz Power State 4 + 802.15.4 P _{Low}	psPD + Wi-Fi 5 GHz Power State 6 + 802.15.4ab	psPD + Wi-Fi 5 GHz Power State 6 + Bluetooth (2.4 GHz) P _{Low} + 802.15.4ab	psPD + Wi-Fi 5 GHz Power State 6 + 802.15.4 P _{Low} + 802.15.4ab
	W/m ²	W/kg	W/kg	W/kg	W/kg	W/kg						
TER Combinations	1	2	3	4	5	6	1+2	1+2+4	1+2+5	1+3+6	1+3+4+6	1+3+5+6
Applicable limit	10	1.6	1.6	1.6	1.6	1.6	1	1	1	1	1	1
Reported Exposure	2.845	0.389	0.309	0.066	0.019	0.034	-	-	-	-	-	-
Ratio to Limit	0.284	0.243	0.193	0.042	0.012	0.021	0.527	0.569	0.539	0.498	0.540	0.510

n261												
Head TER	psPD	Wi-Fi 6E Power State 4 Mode A	Wi-Fi 6E Power State 6 Mode A	Bluetooth (2.4 GHz) P _{Low} Mode A	802.15.4 P _{Low} Mode A	802.15.4ab Mode A	psPD + Wi-Fi 6E Power State 4	psPD + Wi-Fi 6E Power State 4 + Bluetooth (2.4 GHz) P _{Low}	psPD + Wi-Fi 6E Power State 4 + 802.15.4 P _{Low}	psPD + Wi-Fi 6E Power State 6 + 802.15.4ab	psPD + Wi-Fi 6E Power State 6 + Bluetooth (2.4 GHz) P _{Low} + 802.15.4ab	psPD + Wi-Fi 6E Power State 6 + 802.15.4 P _{Low} + 802.15.4ab
	W/m ²	W/kg	W/kg	W/kg	W/kg	W/kg						
TER Combinations	1	2	3	4	5	6	1+2	1+2+4	1+2+5	1+3+6	1+3+4+6	1+3+5+6
Applicable limit	10	10	10	1.6	1.6	1.6	1	1	1	1	1	1
Reported Exposure	2.845	3.013	2.393	0.066	0.019	0.034	-	-	-	-	-	-
Ratio to Limit	0.284	0.301	0.239	0.042	0.012	0.021	0.585	0.627	0.597	0.544	0.586	0.556

n261					
Head TER	psPD	Bluetooth (2.4 GHz) P _{High} Mode A	802.15.4ab Mode A	psPD + Bluetooth (2.4 GHz) P _{High}	psPD + Bluetooth (2.4 GHz) P _{High} + 802.15.4ab
	W/m ²	W/kg	W/kg		
TER Combinations	1	2	3	1+2	1+2+3
Applicable limit	10	1.6	1.6	1	1
Reported Exposure	2.845	0.339	0.034	-	-
Ratio to Limit	0.284	0.212	0.021	0.496	0.517

n261			
Head TER	psPD	NB U-NII P _{High} Mode A	psPD + NB U-NII P _{High}
	W/m ²	W/kg	
TER Combinations	1	2	1+2
Applicable limit	10	1.6	1
Reported Exposure	2.845	0.275	-
Ratio to Limit	0.284	0.172	0.456

n261						
Head TER	psPD	802.15.4 P _{High} Mode A	802.15.4ab Mode A	psPD + 802.15.4 P _{High}	psPD + 802.15.4ab	psPD + 802.15.4 P _{High} + 802.15.4ab
	W/m ²	W/kg	W/kg			
TER Combinations	1	2	3	1+2	1+2	1+2+3
Applicable limit	10	1.6	1.6	1	1	1
Reported Exposure	2.845	0.268	0.034	-	-	-
Ratio to Limit	0.284	0.167	0.021	0.451	0.305	0.472

Table 6-15: TER for Worst-case WLAN + 5G Millimeter Wave NR for n258 Body/Hotspot

n258									
Body/Hotspot TER	psPD	Wi-Fi 2.4 GHz Power State 4 Mode B	Wi-Fi 2.4 GHz Power State 6 Mode B	NB U-NII P _{Low} Mode B	802.15.4ab Mode B	psPD + Wi-Fi 2.4 GHz Power State 4	psPD + Wi-Fi 2.4 GHz Power State 4 + NB U-NII P _{Low}	psPD + Wi-Fi 2.4 GHz Power State 6 + 802.15.4ab	
	W/m ²	W/kg	W/kg	W/kg	W/kg				
Scenario	1	2	3	4	5	1+2	1+2+4	1+3+5	
Applicable limit	10	1.6	1.6	1.6	1.6	1	1	1	
S1 @ 5 mm	Reported Exposure	2.575	0.177	0.150	0.001	0.008	-	-	-
	Ratio to Limit	0.258	0.111	0.094	0.001	0.005	0.368	0.352	0.357
S2 @ 5 mm	Reported Exposure	5.675	0.445	0.359	0.052	0.075	-	-	-
	Ratio to Limit	0.568	0.278	0.224	0.032	0.047	0.845	0.824	0.838
S3 @ 5 mm	Reported Exposure	5.281	0.177	0.150	0.013	0.004	-	-	-
	Ratio to Limit	0.528	0.111	0.094	0.008	0.002	0.639	0.630	0.624
S4 @ 5 mm	Reported Exposure	5.675	0.406	0.345	0.001	0.000	-	-	-
	Ratio to Limit	0.568	0.254	0.215	0.001	0.000	0.821	0.784	0.783
S5 @ 5 mm	Reported Exposure	2.469	0.177	0.150	0.000	0.004	-	-	-
	Ratio to Limit	0.247	0.111	0.094	0.000	0.002	0.357	0.341	0.343
S6 @ 5 mm	Reported Exposure	0.481	0.177	0.150	0.001	0.000	-	-	-
	Ratio to Limit	0.048	0.111	0.094	0.001	0.000	0.159	0.143	0.142

n258												
Body/Hotspot TER	psPD	Wi-Fi 5 GHz Power State 4 Mode B	Wi-Fi 5 GHz Power State 6 Mode B	Bluetooth (2.4 GHz) P _{Low} Mode B	802.15.4 P _{Low} Mode B	802.15.4ab Mode B	psPD + Wi-Fi 5 GHz Power State 4	psPD + Wi-Fi 5 GHz Power State 4 + Bluetooth (2.4 GHz) P _{Low}	psPD + Wi-Fi 5 GHz Power State 4 + 802.15.4 P _{Low}	psPD + Wi-Fi 5 GHz Power State 6 + 802.15.4ab	psPD + Wi-Fi 5 GHz Power State 6 + Bluetooth (2.4 GHz) P _{Low} + 802.15.4ab	psPD + Wi-Fi 5 GHz Power State 6 + 802.15.4 P _{Low} + 802.15.4ab
	W/m ²	W/kg	W/kg	W/kg	W/kg	W/kg						
Scenario	1	2	3	4	5	6	1+2	1+2+4	1+2+5	1+3+6	1+3+4+6	1+3+5+6
Applicable limit	10	1.6	1.6	1.6	1.6	1.6	1	1	1	1	1	1
S1 @ 5 mm	Reported Exposure	2.575	0.235	0.187	0.054	0.009	0.008	-	-	-	-	-
	Ratio to Limit	0.258	0.147	0.117	0.034	0.006	0.005	0.405	0.438	0.410	0.379	0.413
S2 @ 5 mm	Reported Exposure	5.675	0.456	0.359	0.097	0.022	0.075	-	-	-	-	-
	Ratio to Limit	0.568	0.285	0.224	0.061	0.014	0.047	0.853	0.914	0.866	0.839	0.899
S3 @ 5 mm	Reported Exposure	5.281	0.414	0.329	0.090	0.001	0.004	-	-	-	-	-
	Ratio to Limit	0.528	0.259	0.205	0.056	0.001	0.002	0.787	0.843	0.787	0.736	0.792
S4 @ 5 mm	Reported Exposure	5.675	0.235	0.187	0.073	0.024	0.000	-	-	-	-	-
	Ratio to Limit	0.568	0.147	0.117	0.045	0.015	0.000	0.715	0.760	0.730	0.684	0.730
S5 @ 5 mm	Reported Exposure	2.469	0.235	0.187	0.001	0.001	0.004	-	-	-	-	-
	Ratio to Limit	0.247	0.147	0.117	0.001	0.001	0.002	0.394	0.395	0.394	0.366	0.367
S6 @ 5 mm	Reported Exposure	0.481	0.235	0.187	0.036	0.001	0.000	-	-	-	-	-
	Ratio to Limit	0.048	0.147	0.117	0.023	0.000	0.000	0.195	0.218	0.196	0.165	0.188

n258												
Body/Hotspot TER	psPD	Wi-Fi 6E Power State 4 Mode B	Wi-Fi 6E Power State 6 Mode B	Bluetooth (2.4 GHz) P _{Low} Mode B	802.15.4 P _{Low} Mode B	802.15.4ab Mode B	psPD + Wi-Fi 6E Power State 4	psPD + Wi-Fi 6E Power State 4 + Bluetooth (2.4 GHz) P _{Low}	psPD + Wi-Fi 6E Power State 4 + 802.15.4 P _{Low}	psPD + Wi-Fi 6E Power State 6 + 802.15.4ab	psPD + Wi-Fi 6E Power State 6 + Bluetooth (2.4 GHz) P _{Low} + 802.15.4ab	psPD + Wi-Fi 6E Power State 6 + 802.15.4 P _{Low} + 802.15.4ab
	W/m ²	W/kg	W/kg	W/kg	W/kg	W/kg						
Scenario	1	2	3	4	5	6	1+2	1+2+4	1+2+5	1+3+6	1+3+4+6	1+3+5+6
Applicable limit	10	10	10	10	1.6	1.6	1	1	1	1	-	-
S1 @ 5 mm	Reported Exposure	2.575	3.013	2.393	0.054	0.009	0.008	-	-	-	-	-
	Ratio to Limit	0.258	0.301	0.239	0.005	0.006	0.005	0.559	0.564	0.564	0.502	0.507
S2 @ 5 mm	Reported Exposure	5.675	3.013	2.393	0.097	0.022	0.075	-	-	-	-	-
	Ratio to Limit	0.568	0.301	0.239	0.010	0.014	0.047	0.869	0.878	0.882	0.854	0.863
S3 @ 5 mm	Reported Exposure	5.281	3.013	2.393	0.090	0.001	0.004	-	-	-	-	-
	Ratio to Limit	0.528	0.301	0.239	0.009	0.001	0.002	0.829	0.838	0.830	0.770	0.779
S4 @ 5 mm	Reported Exposure	5.675	3.013	2.393	0.073	0.024	0.000	-	-	-	-	-
	Ratio to Limit	0.568	0.301	0.239	0.007	0.015	0.000	0.869	0.876	0.884	0.807	0.814
S5 @ 5 mm	Reported Exposure	2.469	3.013	2.393	0.001	0.001	0.004	-	-	-	-	-
	Ratio to Limit	0.247	0.301	0.239	0.000	0.001	0.002	0.548	0.548	0.549	0.488	0.489
S6 @ 5 mm	Reported Exposure	0.481	3.013	2.393	0.036	0.001	0.000	-	-	-	-	-
	Ratio to Limit	0.048	0.301	0.239	0.004	0.000	0.000	0.349	0.353	0.350	0.287	0.291

n258						
Body/Hotspot TER	psPD	Bluetooth (2.4 GHz) P _{High} Mode B	802.15.4ab Mode B	psPD + Bluetooth (2.4 GHz) P _{High}	psPD + Bluetooth (2.4 GHz) P _{High} + 802.15.4ab	Scenario
						W/m ²
Scenario	1	2	3	1+2	1+2+3	
Applicable limit	10	1.6	1.6	1	1	
S1 @ 5 mm	Reported Exposure	2.575	0.217	0.008	-	-
	Ratio to Limit	0.258	0.136	0.005	0.393	0.398
S2 @ 5 mm	Reported Exposure	5.675	0.396	0.075	-	-
	Ratio to Limit	0.568	0.248	0.047	0.815	0.862
S3 @ 5 mm	Reported Exposure	5.281	0.382	0.004	-	-
	Ratio to Limit	0.528	0.239	0.002	0.767	0.769
S4 @ 5 mm	Reported Exposure	5.675	0.363	0.000	-	-
	Ratio to Limit	0.568	0.227	0.000	0.794	0.794
S5 @ 5 mm	Reported Exposure	2.469	0.013	0.004	-	-
	Ratio to Limit	0.247	0.008	0.002	0.255	0.257
S6 @ 5 mm	Reported Exposure	0.481	0.098	0.000	-	-
	Ratio to Limit	0.048	0.061	0.000	0.109	0.109

n258				
Body/Hotspot TER		psPD	NB U-NII P _{High} Mode B	psPD + NB U-NII P _{High}
		W/m ²	W/kg	
Scenario		1	2	1+2
Applicable limit		10	1.6	1
S1 @ 5 mm	Reported Exposure	2.575	0.032	-
	Ratio to Limit	0.258	0.020	0.277
S2 @ 5 mm	Reported Exposure	5.675	0.395	-
	Ratio to Limit	0.568	0.247	0.814
S3 @ 5 mm	Reported Exposure	5.281	0.158	-
	Ratio to Limit	0.528	0.099	0.627
S4 @ 5 mm	Reported Exposure	5.675	0.142	-
	Ratio to Limit	0.568	0.089	0.657
S5 @ 5 mm	Reported Exposure	2.469	0.039	-
	Ratio to Limit	0.247	0.024	0.271
S6 @ 5 mm	Reported Exposure	0.481	0.022	-
	Ratio to Limit	0.048	0.014	0.062

n258							
Body/Hotspot TER	psPD	802.15.4 P _{High} Mode B	802.15.4ab Mode B	psPD + 802.15.4 P _{High}	psPD + 802.15.4ab	psPD + 802.15.4 P _{High} + 802.15.4ab	
	W/m ²	W/kg	W/kg				
Scenario	1	2	3	1+2	1+3	1+2+3	
Applicable limit	10	1.6	1.6	1	1		
S1 @ 5 mm	Reported Exposure	2.575	0.082	0.008	-	-	-
	Ratio to Limit	0.258	0.051	0.005	0.309	0.263	0.314
S2 @ 5 mm	Reported Exposure	5.675	0.202	0.075	-	-	-
	Ratio to Limit	0.568	0.126	0.047	0.694	0.614	0.741
S3 @ 5 mm	Reported Exposure	5.281	0.003	0.004	-	-	-
	Ratio to Limit	0.528	0.002	0.002	0.530	0.530	0.532
S4 @ 5 mm	Reported Exposure	5.675	0.208	0.000	-	-	-
	Ratio to Limit	0.568	0.130	0.000	0.697	0.568	0.697
S5 @ 5 mm	Reported Exposure	2.469	0.013	0.004	-	-	-
	Ratio to Limit	0.247	0.008	0.002	0.255	0.249	0.257
S6 @ 5 mm	Reported Exposure	0.481	0.000	0.000	-	-	-
	Ratio to Limit	0.048	0.000	0.000	0.048	0.048	0.048

Table 6-16: TER for Worst-case WLAN + 5G Millimeter Wave NR for n260 Body/Hotspot

n260									
Body/Hotspot TER	psPD	Wi-Fi 2.4 GHz Power State 4 Mode B	Wi-Fi 2.4 GHz Power State 6 Mode B	NB U-NII P _{Low} Mode B	802.15.4ab Mode B	psPD + Wi-Fi 2.4 GHz Power State 4	psPD + Wi-Fi 2.4 GHz Power State 4 + NB U-NII P _{Low}	psPD + Wi-Fi 2.4 GHz Power State 6 + 802.15.4ab	
	W/m ²	W/kg	W/kg	W/kg	W/kg				
Scenario	1	2	3	4	5	1+2	1+2+4	1+3+5	
Applicable limit	10	1.6	1.6	1.6	1.6	1	1	1	
S1 @ 5 mm	Reported Exposure	3.038	0.177	0.150	0.001	0.008	-	-	-
	Ratio to Limit	0.304	0.111	0.094	0.001	0.005	0.414	0.398	0.403
S2 @ 5 mm	Reported Exposure	5.794	0.445	0.359	0.052	0.075	-	-	-
	Ratio to Limit	0.579	0.278	0.224	0.032	0.047	0.857	0.836	0.850
S3 @ 5 mm	Reported Exposure	4.619	0.177	0.150	0.013	0.004	-	-	-
	Ratio to Limit	0.462	0.111	0.094	0.008	0.002	0.572	0.564	0.558
S4 @ 5 mm	Reported Exposure	5.794	0.406	0.345	0.001	0.000	-	-	-
	Ratio to Limit	0.579	0.254	0.215	0.001	0.000	0.833	0.795	0.795
S5 @ 5 mm	Reported Exposure	4.138	0.177	0.150	0.000	0.004	-	-	-
	Ratio to Limit	0.414	0.111	0.094	0.000	0.002	0.524	0.508	0.510
S6 @ 5 mm	Reported Exposure	0.444	0.177	0.150	0.001	0.000	-	-	-
	Ratio to Limit	0.044	0.111	0.094	0.001	0.000	0.155	0.139	0.138

n260												
Body/Hotspot TER	psPD	Wi-Fi 5 GHz Power State 4 Mode B	Wi-Fi 5 GHz Power State 6 Mode B	Bluetooth (2.4 GHz) P _{Low} Mode B	802.15.4 P _{Low} Mode B	802.15.4ab Mode B	psPD + Wi-Fi 5 GHz Power State 4	psPD + Wi-Fi 5 GHz Power State 4 + Bluetooth (2.4 GHz) P _{Low}	psPD + Wi-Fi 5 GHz Power State 4 + 802.15.4 P _{Low}	psPD + Wi-Fi 5 GHz Power State 6 + 802.15.4ab	psPD + Wi-Fi 5 GHz Power State 6 + Bluetooth (2.4 GHz) P _{Low} + 802.15.4ab	psPD + Wi-Fi 5 GHz Power State 6 + 802.15.4 P _{Low} + 802.15.4ab
	W/m ²	W/kg	W/kg	W/kg	W/kg	W/kg						
Scenario	1	2	3	4	5	6	1+2	1+2+4	1+2+5	1+3+6	1+3+4+6	1+3+5+6
Applicable limit	10	1.6	1.6	1.6	1.6	1.6	1	1	1	1	1	1
S1 @ 5 mm	Reported Exposure	3.038	0.235	0.187	0.054	0.009	0.008	-	-	-	-	-
	Ratio to Limit	0.304	0.147	0.117	0.034	0.006	0.005	0.451	0.485	0.456	0.426	0.460
S2 @ 5 mm	Reported Exposure	5.794	0.456	0.359	0.097	0.022	0.075	-	-	-	-	-
	Ratio to Limit	0.579	0.285	0.224	0.061	0.014	0.047	0.865	0.926	0.878	0.850	0.911
S3 @ 5 mm	Reported Exposure	4.619	0.414	0.329	0.090	0.001	0.004	-	-	-	-	-
	Ratio to Limit	0.462	0.259	0.205	0.056	0.001	0.002	0.720	0.777	0.721	0.669	0.726
S4 @ 5 mm	Reported Exposure	5.794	0.235	0.187	0.073	0.024	0.000	-	-	-	-	-
	Ratio to Limit	0.579	0.147	0.117	0.045	0.015	0.000	0.726	0.772	0.742	0.696	0.742
S5 @ 5 mm	Reported Exposure	4.138	0.235	0.187	0.001	0.001	0.004	-	-	-	-	-
	Ratio to Limit	0.414	0.147	0.117	0.001	0.001	0.002	0.561	0.562	0.561	0.533	0.534
S6 @ 5 mm	Reported Exposure	0.444	0.235	0.187	0.036	0.001	0.000	-	-	-	-	-
	Ratio to Limit	0.044	0.147	0.117	0.023	0.000	0.000	0.191	0.214	0.192	0.161	0.184

n260												
Body/Hotspot TER	psPD	Wi-Fi 6E Power State 4 Mode B	Wi-Fi 6E Power State 6 Mode B	Bluetooth (2.4 GHz) P _{Low} Mode B	802.15.4 P _{Low} Mode B	802.15.4ab Mode B	psPD + Wi-Fi 6E Power State 4	psPD + Wi-Fi 6E Power State 4 + Bluetooth (2.4 GHz) P _{Low}	psPD + Wi-Fi 6E Power State 4 + 802.15.4 P _{Low}	psPD + Wi-Fi 6E Power State 6 + 802.15.4ab	psPD + Wi-Fi 6E Power State 6 + Bluetooth (2.4 GHz) P _{Low} + 802.15.4ab	psPD + Wi-Fi 6E Power State 6 + 802.15.4 P _{Low} + 802.15.4ab
	W/m ²	W/kg	W/kg	W/kg	W/kg	W/kg						
Scenario	1	2	3	4	5	6	1+2	1+2+4	1+2+5	1+3+6	1+3+4+6	1+3+5+6
Applicable limit	10	10	10	10	1.6	1.6	1	1	1	1	-	-
S1 @ 5 mm	Reported Exposure	3.038	3.013	2.393	0.054	0.009	0.008	-	-	-	-	-
	Ratio to Limit	0.304	0.301	0.239	0.005	0.006	0.005	0.605	0.610	0.611	0.548	0.554
S2 @ 5 mm	Reported Exposure	5.794	3.013	2.393	0.097	0.022	0.075	-	-	-	-	-
	Ratio to Limit	0.579	0.301	0.239	0.010	0.014	0.047	0.881	0.890	0.894	0.865	0.875
S3 @ 5 mm	Reported Exposure	4.619	3.013	2.393	0.090	0.001	0.004	-	-	-	-	-
	Ratio to Limit	0.462	0.301	0.239	0.009	0.001	0.002	0.763	0.772	0.764	0.703	0.712
S4 @ 5 mm	Reported Exposure	5.794	3.013	2.393	0.073	0.024	0.000	-	-	-	-	-
	Ratio to Limit	0.579	0.301	0.239	0.007	0.015	0.000	0.881	0.888	0.896	0.819	0.826
S5 @ 5 mm	Reported Exposure	4.138	3.013	2.393	0.001	0.001	0.004	-	-	-	-	-
	Ratio to Limit	0.414	0.301	0.239	0.000	0.001	0.002	0.715	0.715	0.716	0.655	0.655
S6 @ 5 mm	Reported Exposure	0.444	3.013	2.393	0.036	0.001	0.000	-	-	-	-	-
	Ratio to Limit	0.044	0.301	0.239	0.004	0.000	0.000	0.346	0.349	0.346	0.284	0.287

n260						
Body/Hotspot TER	psPD	Bluetooth (2.4 GHz) P _{High} Mode B	802.15.4ab Mode B	psPD + Bluetooth (2.4 GHz) P _{High}	psPD + Bluetooth (2.4 GHz) P _{High} + 802.15.4ab	Scenario
						W/m ²
Scenario	1	2	3	1+2	1+2+3	
Applicable limit	10	1.6	1.6	1	1	
S1 @ 5 mm	Reported Exposure	3.038	0.217	0.008	-	-
	Ratio to Limit	0.304	0.136	0.005	0.439	0.445
S2 @ 5 mm	Reported Exposure	5.794	0.396	0.075	-	-
	Ratio to Limit	0.579	0.248	0.047	0.827	0.874
S3 @ 5 mm	Reported Exposure	4.619	0.382	0.004	-	-
	Ratio to Limit	0.462	0.239	0.002	0.701	0.703
S4 @ 5 mm	Reported Exposure	5.794	0.363	0.000	-	-
	Ratio to Limit	0.579	0.227	0.000	0.806	0.806
S5 @ 5 mm	Reported Exposure	4.138	0.013	0.004	-	-
	Ratio to Limit	0.414	0.008	0.002	0.422	0.424
S6 @ 5 mm	Reported Exposure	0.444	0.098	0.000	-	-
	Ratio to Limit	0.044	0.061	0.000	0.106	0.106

n260				
Body/Hotspot TER		psPD	NB U-NII P _{High} Mode B	psPD + NB U-NII P _{High}
		W/m ²	W/kg	
Scenario		1	2	1+2
Applicable limit		10	1.6	1
S1 @ 5 mm	Reported Exposure	3.038	0.032	-
	Ratio to Limit	0.304	0.020	0.324
S2 @ 5 mm	Reported Exposure	5.794	0.395	-
	Ratio to Limit	0.579	0.247	0.826
S3 @ 5 mm	Reported Exposure	4.619	0.158	-
	Ratio to Limit	0.462	0.099	0.561
S4 @ 5 mm	Reported Exposure	5.794	0.142	-
	Ratio to Limit	0.579	0.089	0.668
S5 @ 5 mm	Reported Exposure	4.138	0.039	-
	Ratio to Limit	0.414	0.024	0.438
S6 @ 5 mm	Reported Exposure	0.444	0.022	-
	Ratio to Limit	0.044	0.014	0.058

n260							
Body/Hotspot TER	psPD	802.15.4 P _{High} Mode B	802.15.4ab Mode B	psPD + 802.15.4 P _{High}	psPD + 802.15.4ab	psPD + 802.15.4 P _{High} + 802.15.4ab	
	W/m ²	W/kg	W/kg				
Scenario	1	2	3	1+2	1+3	1+2+3	
Applicable limit	10	1.6	1.6	1	1		
S1 @ 5 mm	Reported Exposure	3.038	0.082	0.008	-	-	-
	Ratio to Limit	0.304	0.051	0.005	0.355	0.309	0.360
S2 @ 5 mm	Reported Exposure	5.794	0.202	0.075	-	-	-
	Ratio to Limit	0.579	0.126	0.047	0.706	0.626	0.753
S3 @ 5 mm	Reported Exposure	4.619	0.003	0.004	-	-	-
	Ratio to Limit	0.462	0.002	0.002	0.464	0.464	0.466
S4 @ 5 mm	Reported Exposure	5.794	0.208	0.000	-	-	-
	Ratio to Limit	0.579	0.130	0.000	0.709	0.579	0.709
S5 @ 5 mm	Reported Exposure	4.138	0.013	0.004	-	-	-
	Ratio to Limit	0.414	0.008	0.002	0.422	0.416	0.424
S6 @ 5 mm	Reported Exposure	0.444	0.000	0.000	-	-	-
	Ratio to Limit	0.044	0.000	0.000	0.044	0.044	0.044

Table 6-17: TER for Worst-case WLAN + 5G Millimeter Wave NR for n261 Body/Hotspot

n261									
Body/Hotspot TER	psPD	Wi-Fi 2.4 GHz Power State 4 Mode B	Wi-Fi 2.4 GHz Power State 6 Mode B	NB U-NII P _{Low} Mode B	802.15.4ab Mode B	psPD + Wi-Fi 2.4 GHz Power State 4	psPD + Wi-Fi 2.4 GHz Power State 4 + NB U-NII P _{Low}	psPD + Wi-Fi 2.4 GHz Power State 6 + 802.15.4ab	
	W/m ²	W/kg	W/kg	W/kg	W/kg				
Scenario	1	2	3	4	5	1+2	1+2+4	1+3+5	
Applicable limit	10	1.6	1.6	1.6	1.6	1	1	1	
S1 @ 5 mm	Reported Exposure	2.656	0.177	0.150	0.001	0.008	-	-	-
	Ratio to Limit	0.266	0.111	0.094	0.001	0.005	0.376	0.360	0.365
S2 @ 5 mm	Reported Exposure	5.831	0.445	0.359	0.052	0.075	-	-	-
	Ratio to Limit	0.583	0.278	0.224	0.032	0.047	0.861	0.840	0.854
S3 @ 5 mm	Reported Exposure	4.906	0.177	0.150	0.013	0.004	-	-	-
	Ratio to Limit	0.491	0.111	0.094	0.008	0.002	0.601	0.593	0.587
S4 @ 5 mm	Reported Exposure	5.831	0.406	0.345	0.001	0.000	-	-	-
	Ratio to Limit	0.583	0.254	0.215	0.001	0.000	0.837	0.799	0.799
S5 @ 5 mm	Reported Exposure	2.644	0.177	0.150	0.000	0.004	-	-	-
	Ratio to Limit	0.264	0.111	0.094	0.000	0.002	0.375	0.358	0.361
S6 @ 5 mm	Reported Exposure	0.338	0.177	0.150	0.001	0.000	-	-	-
	Ratio to Limit	0.034	0.111	0.094	0.001	0.000	0.144	0.128	0.128

n261												
Body/Hotspot TER	psPD	Wi-Fi 5 GHz Power State 4 Mode B	Wi-Fi 5 GHz Power State 6 Mode B	Bluetooth (2.4 GHz) P _{Low} Mode B	802.15.4 P _{Low} Mode B	802.15.4ab Mode B	psPD + Wi-Fi 5 GHz Power State 4	psPD + Wi-Fi 5 GHz Power State 4 + Bluetooth (2.4 GHz) P _{Low}	psPD + Wi-Fi 5 GHz Power State 4 + 802.15.4 P _{Low}	psPD + Wi-Fi 5 GHz Power State 6 + 802.15.4ab	psPD + Wi-Fi 5 GHz Power State 6 + Bluetooth (2.4 GHz) P _{Low} + 802.15.4ab	psPD + Wi-Fi 5 GHz Power State 6 + 802.15.4 P _{Low} + 802.15.4ab
	W/m ²	W/kg	W/kg	W/kg	W/kg	W/kg						
Scenario	1	2	3	4	5	6	1+2	1+2+4	1+2+5	1+3+6	1+3+4+6	1+3+5+6
Applicable limit	10	1.6	1.6	1.6	1.6	1.6	1	1	1	1	1	1
S1 @ 5 mm	Reported Exposure	2.656	0.235	0.187	0.054	0.009	0.008	-	-	-	-	-
	Ratio to Limit	0.266	0.147	0.117	0.034	0.006	0.005	0.413	0.446	0.418	0.388	0.421
S2 @ 5 mm	Reported Exposure	5.831	0.456	0.359	0.097	0.022	0.075	-	-	-	-	-
	Ratio to Limit	0.583	0.285	0.224	0.061	0.014	0.047	0.868	0.929	0.882	0.854	0.915
S3 @ 5 mm	Reported Exposure	4.906	0.414	0.329	0.090	0.001	0.004	-	-	-	-	-
	Ratio to Limit	0.491	0.259	0.205	0.056	0.001	0.002	0.749	0.806	0.750	0.698	0.755
S4 @ 5 mm	Reported Exposure	5.831	0.235	0.187	0.073	0.024	0.000	-	-	-	-	-
	Ratio to Limit	0.583	0.147	0.117	0.045	0.015	0.000	0.730	0.776	0.745	0.700	0.745
S5 @ 5 mm	Reported Exposure	2.644	0.235	0.187	0.001	0.001	0.004	-	-	-	-	-
	Ratio to Limit	0.264	0.147	0.117	0.001	0.001	0.002	0.411	0.412	0.412	0.383	0.384
S6 @ 5 mm	Reported Exposure	0.338	0.235	0.187	0.036	0.001	0.000	-	-	-	-	-
	Ratio to Limit	0.034	0.147	0.117	0.023	0.000	0.000	0.181	0.203	0.181	0.151	0.173

n261												
Body/Hotspot TER	psPD	Wi-Fi 6E Power State 4 Mode B	Wi-Fi 6E Power State 6 Mode B	Bluetooth (2.4 GHz) P _{Low} Mode B	802.15.4 P _{Low} Mode B	802.15.4ab Mode B	psPD + Wi-Fi 6E Power State 4	psPD + Wi-Fi 6E Power State 4 + Bluetooth (2.4 GHz) P _{Low}	psPD + Wi-Fi 6E Power State 4 + 802.15.4 P _{Low}	psPD + Wi-Fi 6E Power State 6 + 802.15.4ab	psPD + Wi-Fi 6E Power State 6 + Bluetooth (2.4 GHz) P _{Low} + 802.15.4ab	psPD + Wi-Fi 6E Power State 6 + 802.15.4 P _{Low} + 802.15.4ab
	W/m ²	W/kg	W/kg	W/kg	W/kg	W/kg						
Scenario	1	2	3	4	5	6	1+2	1+2+4	1+2+5	1+3+6	1+3+4+6	1+3+5+6
Applicable limit	10	10	10	10	1.6	1.6	1	1	1	1	-	-
S1 @ 5 mm	Reported Exposure	2.656	3.013	2.393	0.054	0.009	0.008	-	-	-	-	-
	Ratio to Limit	0.266	0.301	0.239	0.005	0.006	0.005	0.567	0.572	0.572	0.510	0.516
S2 @ 5 mm	Reported Exposure	5.831	3.013	2.393	0.097	0.022	0.075	-	-	-	-	-
	Ratio to Limit	0.583	0.301	0.239	0.010	0.014	0.047	0.884	0.894	0.898	0.869	0.879
S3 @ 5 mm	Reported Exposure	4.906	3.013	2.393	0.090	0.001	0.004	-	-	-	-	-
	Ratio to Limit	0.491	0.301	0.239	0.009	0.001	0.002	0.792	0.801	0.792	0.732	0.741
S4 @ 5 mm	Reported Exposure	5.831	3.013	2.393	0.073	0.024	0.000	-	-	-	-	-
	Ratio to Limit	0.583	0.301	0.239	0.007	0.015	0.000	0.884	0.892	0.900	0.822	0.830
S5 @ 5 mm	Reported Exposure	2.644	3.013	2.393	0.001	0.001	0.004	-	-	-	-	-
	Ratio to Limit	0.264	0.301	0.239	0.000	0.001	0.002	0.566	0.566	0.566	0.506	0.506
S6 @ 5 mm	Reported Exposure	0.338	3.013	2.393	0.036	0.001	0.000	-	-	-	-	-
	Ratio to Limit	0.034	0.301	0.239	0.004	0.000	0.000	0.335	0.339	0.335	0.273	0.277

n261						
Body/Hotspot TER	psPD	Bluetooth (2.4 GHz) P _{High} Mode B	802.15.4ab Mode B	psPD + Bluetooth (2.4 GHz) P _{High}	psPD + Bluetooth (2.4 GHz) P _{High} + 802.15.4ab	Scenario
						W/m ²
Scenario	1	2	3	1+2	1+2+3	
Applicable limit	10	1.6	1.6	1	1	
S1 @ 5 mm	Reported Exposure	2.656	0.217	0.008	-	-
	Ratio to Limit	0.266	0.136	0.005	0.401	0.406
S2 @ 5 mm	Reported Exposure	5.831	0.396	0.075	-	-
	Ratio to Limit	0.583	0.248	0.047	0.831	0.877
S3 @ 5 mm	Reported Exposure	4.906	0.382	0.004	-	-
	Ratio to Limit	0.491	0.239	0.002	0.729	0.732
S4 @ 5 mm	Reported Exposure	5.831	0.363	0.000	-	-
	Ratio to Limit	0.583	0.227	0.000	0.810	0.810
S5 @ 5 mm	Reported Exposure	2.644	0.013	0.004	-	-
	Ratio to Limit	0.264	0.008	0.002	0.273	0.275
S6 @ 5 mm	Reported Exposure	0.338	0.098	0.000	-	-
	Ratio to Limit	0.034	0.061	0.000	0.095	0.095

n261				
Body/Hotspot TER		psPD	NB U-NII P _{High} Mode B	psPD + NB U-NII P _{High}
		W/m ²	W/kg	
Scenario		1	2	1+2
Applicable limit		10	1.6	1
S1 @ 5 mm	Reported Exposure	2.656	0.032	-
	Ratio to Limit	0.266	0.020	0.286
S2 @ 5 mm	Reported Exposure	5.831	0.395	-
	Ratio to Limit	0.583	0.247	0.830
S3 @ 5 mm	Reported Exposure	4.906	0.158	-
	Ratio to Limit	0.491	0.099	0.589
S4 @ 5 mm	Reported Exposure	5.831	0.142	-
	Ratio to Limit	0.583	0.089	0.672
S5 @ 5 mm	Reported Exposure	2.644	0.039	-
	Ratio to Limit	0.264	0.024	0.289
S6 @ 5 mm	Reported Exposure	0.338	0.022	-
	Ratio to Limit	0.034	0.014	0.047

n261							
Body/Hotspot TER	psPD	802.15.4 P _{High} Mode B	802.15.4ab Mode B	psPD + 802.15.4 P _{High}	psPD + 802.15.4ab	psPD + 802.15.4 P _{High} + 802.15.4ab	
	W/m ²	W/kg	W/kg				
Scenario	1	2	3	1+2	1+3	1+2+3	
Applicable limit	10	1.6	1.6	1	1		
S1 @ 5 mm	Reported Exposure	2.656	0.082	0.008	-	-	-
	Ratio to Limit	0.266	0.051	0.005	0.317	0.271	0.322
S2 @ 5 mm	Reported Exposure	5.831	0.202	0.075	-	-	-
	Ratio to Limit	0.583	0.126	0.047	0.710	0.630	0.756
S3 @ 5 mm	Reported Exposure	4.906	0.003	0.004	-	-	-
	Ratio to Limit	0.491	0.002	0.002	0.492	0.493	0.495
S4 @ 5 mm	Reported Exposure	5.831	0.208	0.000	-	-	-
	Ratio to Limit	0.583	0.130	0.000	0.713	0.583	0.713
S5 @ 5 mm	Reported Exposure	2.644	0.013	0.004	-	-	-
	Ratio to Limit	0.264	0.008	0.002	0.273	0.267	0.275
S6 @ 5 mm	Reported Exposure	0.338	0.000	0.000	-	-	-
	Ratio to Limit	0.034	0.000	0.000	0.034	0.034	0.034

7. Conclusions

Table 7-1 shows the worst-case 1-g SAR at P_{limit} and worst-case 4cm²-avg PD at *input.power.limit*.

Table 7-1: Reported RF Exposure Level

Reported RF Exposure Level		Notes
Highest 1-g SAR at P_{limit} (W/kg)	0.950	Refer to §1 for the reference SAR Report
Highest 4cm ² -avg PD at <i>input.power.limit</i> (W/m ²)	5.960	§6.2
Highest 1-g SAR (W/kg) for simultaneous Tx (Sub-6 WWAN + WLAN)	1.555	Refer to §1 for the reference SAR Report
Highest Total Exposure Ratio for simultaneous Tx (5G mmW NR + WLAN)	0.929	§6.3

Qualcomm's Smart Transmit feature employed in the EUT meets the $SAR_{Design Target}$ and $PD_{Design Target}$ (within the design uncertainties) when operating in the static transmission condition at P_{limit} and *input.power.limit*, respectively, and is compliant with the FCC RF exposure limits.

Appendices

A. Millimeter Wave Probe Certificate

B. Verification Source Certificate