



Part 1: Test Under Static Transmission Scenario

For
SMARTPHONE

FCC ID: BCG-E8439A
Model Name: A2849

Report Number: 14523771-S4V1
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Revision History

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V1	8/3/2023	Initial Issue	--

Table of Contents

1.	Attestation of Test Results	5
2.	Facilities and Accreditation	6
3.	Introduction	6
4.	Measurement Setup and General Information	7
4.1.	Test Environment	7
4.2.	Power Density Measurement System.....	7
4.2.1.	Power Density Probe	7
4.2.2.	Power Density Measurement System Verification	7
5.	Test Condition, Configuration, and Assessment	11
5.1.	Qualcomm Smart Transmit Parameters	11
5.1.1.	Qualcomm Smart Transmit Parameters for the Sub-6 Modem	12
5.1.2.	Qualcomm Smart Transmit parameters for the 5G modem	12
5.2.	Device Test Configuration for SAR Measurements	12
5.3.	Device Test Configuration for PD Measurements	13
6.	Summary of Results	16
6.1.	SAR Measurement and Conducted Power Results at P_{limit}	16
6.2.	PD Measurement Results at input.power.limit.....	18
6.3.	Simultaneous Transmission Analysis	25
6.3.1.	Analysis.....	25
6.3.2.	Simultaneous Transmission Compliance Demonstration for Sub-6 GHz WWAN + WLAN	27
6.3.3.	Simultaneous Transmission Compliance demonstration for 5G millimeter wave NR WWAN + WLAN	27
7.	Conclusions.....	46
Appendices.....		46
A.	Millimeter Wave Probe Certificate.....	46
B.	Verification Source Certificate.....	46

Figures

Figure 4-1: 4cm ² PD for source validation (worst-case Δ) SAR 3.....	9
Figure 4-2: 4cm ² PD for source validation (worst-case Δ) SAR 6.....	10
Figure 5-1: EUT surface definition (S1=Front, S2=Back, S3=Edge Left, S4=Edge Right, S5=Edge Top, S6=Edge Bottom).....	15
Figure 6-1: Band n258, Beam ID 163, point PD and 4cm ² PD, Back.....	22
Figure 6-2: Band n260, Beam ID 177, point PD and 4cm ² PD, Right	23
Figure 6-3: Band n261, Beam ID 42, point PD and 4cm ² PD, Right	24

Tables

Table 4-1: System validation results for SAR 3	8
Table 4-2: System validation results for SAR 6	8
Table 4-3: System Check Results	8
Table 5-1: PD verification test cases for n258	13
Table 5-2: PD verification test cases for n260	14
Table 5-3: PD verification test cases for n261	14
Table 6-1: Comparison of P_{limit} and P_{max}	16
Table 6-2: Worst-case reported WLAN SAR (Power State 4)	18
Table 6-3: Worst-case reported WLAN SAR (Power State 6)	18
Table 6-4: PD Measurement results n258	19

Table 6-5: PD Measurement results n260	20
Table 6-6: PD Measurement results n261	21
Table 6-7: Worst-case time-averaged RF exposure for WWAN.....	25
Table 6-8: Simultaneous transmission analysis scenarios for 5G millimeter wave NR WWAN + WLAN	27
Table 6-9: 5G Millimeter Wave NR Simulation PD Surface Ratio for n258	28
Table 6-10: 5G Millimeter Wave NR Simulation PD Surface Ratio for n260	28
Table 6-11: 5G Millimeter Wave NR Simulation PD Surface Ratio for n261	28
Table 6-12: TER for Worst-case WLAN + 5G Millimeter Wave NR for n258 Head.....	29
Table 6-13: TER for Worst-case WLAN + 5G Millimeter Wave NR for n260 Head.....	30
Table 6-14: TER for Worst-case WLAN + 5G Millimeter Wave NR for n261 Head.....	32
Table 6-15: TER for Worst-case WLAN + 5G Millimeter Wave NR for n258 Body/Hotspot.....	34
Table 6-16: TER for Worst-case WLAN + 5G Millimeter Wave NR for n260 Body/Hotspot.....	38
Table 6-17: TER for Worst-case WLAN + 5G Millimeter Wave NR for n261 Body/Hotspot.....	42
Table 7-1: Reported RF Exposure Level	46

1. Attestation of Test Results

Applicant Name	APPLE INC.
FCC ID	BCG-E8439A
Model Name	A2849
Reference SAR Report	14523771-S1 and 14523771-S10
Exposure Category	PD Limit (W/m ²)
General Population (Uncontrolled Exposure)	10
RF Exposure Conditions	Highest Reported PD (W/m ²)
	6.050
Date Tested	6/25/2023 to 7/14/2023
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. 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. 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. 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.	
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 EUmWV 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 EUmWV 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	6/25/2023	30	1003	9/14/2023	34.7	33.4	0.17	4%	35.8	34.8	0.13	3%
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%
3	7/6/2023	30	1003	9/14/2023	35.3	33.4	0.24	6%	36.8	34.8	0.25	6%
3	7/10/2023	30	1003	9/14/2023	34.4	33.4	0.13	3%	36.0	34.8	0.15	4%
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	6/25/2023	30	1003	9/14/2023	33.8	32.7	0.14	3%	34.4	33.3	0.14	3%
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%
6	7/6/2023	30	1003	9/14/2023	28.5	32.7	-0.60	-13%	29.1	33.3	-0.58	-13%
6	7/10/2023	30	1003	9/14/2023	27.8	32.7	-0.71	-15%	28.4	33.3	-0.69	-15%

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

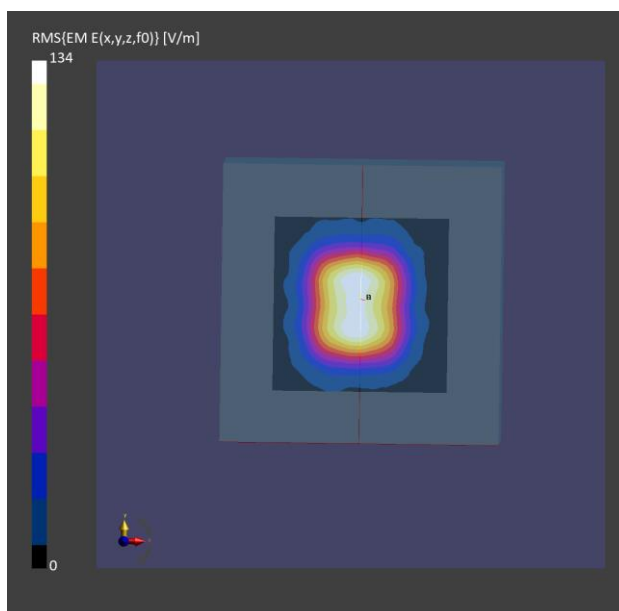
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- xxxx	---Air	EUmmWV4 - SN9589_F1-55GHz, 2022-09-20	DAE4 Sn1377, 2022-09-15

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

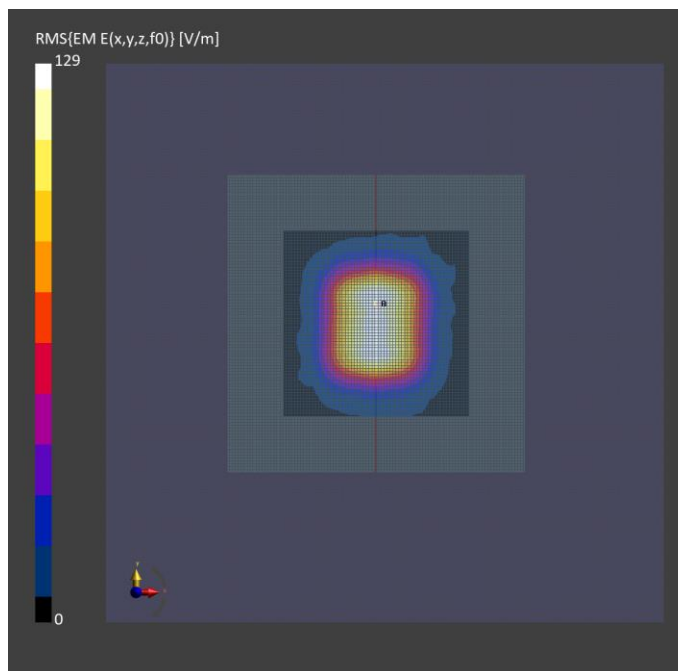
Phantom	Medium	Probe, Calibration Date	DAE, Calibration Date
mmWave- xxxx	---Air	EUmmWV4 - SN9496_F1-55GHz, 2023-02-20	DAE4 Sn1540, 2023-01-23

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 ($P_{reserve}$):

$$P_{reserve} \text{ (dBm)} = P_{limit} \text{ (dBm)} - \text{Reserve_power_margin (dB)}$$

- 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., $\text{secondary_split_ratio} * \text{total_min_exp_budget_linear_4g_5g_wwan}$) 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 $(1 - \text{secondary_split_ratio}) * \text{total_min_exp_budget_linear_4g_5g_wwan}$.
- *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	44		100	1	Back
	2032499	34	162	100	1	Back
	2018333		172	100	1	Back
	2018333		172	100	1	Left
Module/Antenna	Ch.	Beam ID1	Beam ID2	BW	RB	DUT
		V	H	MHz	#	Surface
ANT M1	2018333	28		100	1	Back
	2032499		146	100	1	Back
	2025833	28	156	100	66	Back
	2025833	28	156	100	66	Left
	2025833	28	156	100	66	Top
Module/Antenna	Ch.	Beam ID1	Beam ID2	BW	RB	DUT
		V	H	MHz	#	Surface
ANT M3	2018333	38		100	1	Right
	2032499	48	176	100	1	Right
	2032499		175	100	66	Right
	2032499		175	100	66	Back
	2032499		175	100	66	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	2253330		163	100	1	Back
	2253330	45	173	100	1	Back
	2229167	35		100	1	Back
	2229167	35		100	1	Left
Module/Antenna	Ch.	Beam ID1	Beam ID2	BW	RB	DUT
		V	H	MHz	#	Surface
ANT M1	2229167		145	100	1	Back
	2229167	28	156	100	1	Back
	2229167	18		100	1	Back
	2229167	18		100	1	Left
	2229167	18		100	1	Top
Module/Antenna	Ch.	Beam ID1	Beam ID2	BW	RB	DUT
		V	H	MHz	#	Surface
ANT M3	2229167		169	100	1	Right
	2229167	41	169	100	1	Right
	2229167	40		200	33	Right
	2229167	40		200	33	Back
	2229167	40		200	33	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	2077084		164	100	1	Back
	2070833	46	174	100	1	Back
	2077084	35		50	33	Back
	2077084	35		50	33	Left
Module/Antenna	Ch.	Beam ID1	Beam ID2	BW	RB	DUT
		V	H	MHz	#	Surface
ANT M1	2070833		145	100	1	Back
	2070833	18	146	100	1	Back
	2070833	18		100	66	Back
	2070833	18		100	66	Left
	2070833	18		100	66	Top
Module/Antenna	Ch.	Beam ID1	Beam ID2	BW	RB	DUT
		V	H	MHz	#	Surface
ANT M3	2083330	38		100	1	Right
	2083330		166	100	1	Right
	2077084	38	166	100	1	Right
	2083330	38		100	1	Back
	2083330	38		100	1	Front

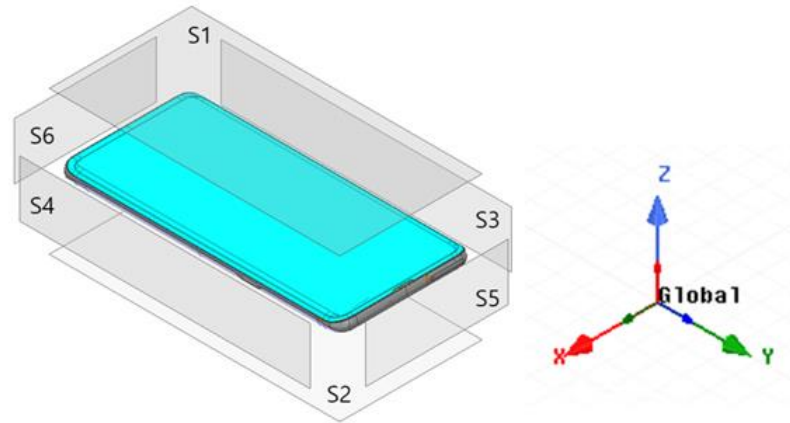


Figure 5-1: EUT surface definition (S1=Front, S2=Back, S3=Edge Left, S4=Edge Right, S5=Edge Top, S6=Edge Bottom)

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 $SAR_{\text{Design Target}}$, 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-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 _{design} (dBm)	P _{limit} + Uncertainty (dBm)	P _{design} (dBm)	P _{limit} + Uncertainty (dBm)	P _{design} (dBm)	P _{limit} + Uncertainty (dBm)	P _{design} (dBm)	P _{limit} + Uncertainty (dBm)	P _{design} (dBm)	P _{limit} + Uncertainty (dBm)	P _{design} (dBm)	P _{limit} + Uncertainty (dBm)		
		Burst Average		Frame Average		Burst Average		Frame Average		Burst Average		Frame Average				
ANT 1	GSM 850 2 slots	25.0%	42.33	32.50	36.31	26.48	34.17	32.50	28.15	26.48	34.17	32.50	28.15	26.48	33.50	27.48
	GSM 1900 2 slots	25.0%	40.30	30.50	34.28	24.48	28.23	28.00	22.21	21.98	28.23	28.00	22.21	21.98	32.00	25.98
	W-CDMA B2	100.0%	32.50	24.50	32.50	24.50	23.49	22.00	23.49	22.00	23.49	22.00	23.49	22.00	25.70	25.70
	W-CDMA B4	100.0%	34.03	25.00	34.03	25.00	23.35	19.70	23.35	19.70	19.87	19.70	19.87	19.70	25.70	25.70
	W-CDMA B6	100.0%	32.46	25.70	32.46	25.70	26.38	25.70	26.38	25.70	26.38	25.70	26.38	25.70	25.70	25.70
	LTE Band 5	100.0%	33.05	25.70	33.05	25.70	26.57	25.70	26.57	25.70	26.57	25.70	26.57	25.70	25.70	25.70
	LTE Band 7	100.0%	29.75	23.00	29.75	23.00	21.96	20.00	21.96	20.00	20.02	20.00	20.02	20.00	25.70	25.70
	LTE Band 12/17	100.0%	33.45	25.70	33.45	25.70	28.86	25.70	28.86	25.70	26.80	25.70	26.80	25.70	25.70	25.70
	LTE Band 13	100.0%	32.34	25.70	32.34	25.70	28.05	25.70	28.05	25.70	27.20	25.70	27.20	25.70	25.70	25.70
	LTE Band 14	100.0%	32.41	25.70	32.41	25.70	28.93	25.70	28.93	25.70	27.84	25.70	27.84	25.70	25.70	25.70
	LTE Band 25/2	100.0%	33.60	24.50	33.60	24.50	22.22	22.00	22.22	22.00	22.22	22.00	22.22	22.00	25.70	25.70
	LTE Band 26	100.0%	33.47	25.70	33.47	25.70	26.31	25.70	26.31	25.70	26.31	25.70	26.31	25.70	25.70	25.70
	LTE Band 30	100.0%	29.72	22.20	29.72	22.20	22.35	20.00	22.35	20.00	20.18	20.00	20.18	20.00	25.70	25.70
	LTE Band 41	63.3%	34.07	25.20	32.08	23.21	25.43	22.00	23.44	20.01	23.50	22.00	21.52	20.01	25.70	23.71
	LTE Band 41 (PC2)	43.3%	N/A	N/A	N/A	N/A	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%	34.38	20.70	32.39	18.71	24.76	20.70	22.78	18.71	23.93	20.70	21.95	18.71	20.70	18.71
	LTE Band 66/4	100.0%	34.69	25.00	34.69	25.00	24.32	19.70	24.32	19.70	19.91	19.70	19.91	19.70	25.70	25.70
	LTE Band 71	100.0%	33.54	25.70	33.54	25.70	30.05	25.70	30.05	25.70	27.92	25.70	27.92	25.70	25.70	25.70
	MSS	100.0%	N/A	N/A	N/A	N/A	22.54	22.30	22.54	22.30	22.54	22.30	22.54	22.30	28.00	28.00
	NR n5	100.0%	33.10	25.70	33.10	25.70	27.29	25.70	27.29	25.70	27.29	25.70	27.29	25.70	25.70	25.70
	NR n7	100.0%	29.97	23.00	29.97	23.00	22.35	20.00	22.35	20.00	20.07	20.00	20.07	20.00	25.70	25.70
	NR n12	100.0%	33.62	25.70	33.62	25.70	29.67	25.70	29.67	25.70	26.73	25.70	26.73	25.70	25.70	25.70
	NR n14	100.0%	32.68	25.70	32.68	25.70	28.97	25.70	28.97	25.70	27.57	25.70	27.57	25.70	25.70	25.70
	NR n25/2	100.0%	33.61	24.50	33.61	24.50	22.24	22.00	22.24	22.00	22.24	22.00	22.24	22.00	25.70	25.70
	NR n26	100.0%	33.36	25.70	33.36	25.70	27.45	25.70	27.45	25.70	27.45	25.70	27.45	25.70	25.70	25.70
	NR n30	100.0%	29.68	22.20	29.68	22.20	22.05	20.00	22.05	20.00	20.15	20.00	20.15	20.00	25.20	25.20
	NR n41	100.0%	32.09	23.20	32.09	23.20	22.36	20.00	22.36	20.00	20.24	20.00	20.24	20.00	25.70	25.70
	NR n53	100.0%	31.58	20.70	31.58	20.70	22.00	20.00	22.00	20.00	20.27	20.00	20.27	20.00	20.70	20.70
	NR n66	100.0%	34.36	25.00	34.36	25.00	24.15	19.70	24.15	19.70	20.02	19.70	20.02	19.70	25.70	25.70
	NR n70	100.0%	33.71	25.00	33.71	25.00	23.90	19.70	23.90	19.70	19.90	19.70	19.90	19.70	25.70	25.70
	NR n71	100.0%	33.85	25.70	33.85	25.70	29.78	25.70	29.78	25.70	28.03	25.70	28.03	25.70	25.70	25.70
ANT 2	GSM 850 2 slots	25.0%	32.06	29.50	26.04	23.48	34.07	31.50	28.05	25.48	34.07	31.50	28.05	25.48	32.50	26.48
	GSM 1900 2 slots	25.0%	27.66	25.50	21.64	19.48	27.08	25.20	21.05	19.18	27.08	25.20	21.05	19.18	29.50	23.48
	W-CDMA B2	100.0%	19.71	19.50	19.71	19.50	19.21	19.20	19.21	19.20	19.21	19.20	19.21	19.20	23.40	23.40
	W-CDMA B4	100.0%	23.01	23.00	23.01	23.00	22.49	22.00	22.49	22.00	22.49	22.00	22.49	22.00	23.40	23.40
	W-CDMA B6	100.0%	23.74	23.50	23.74	23.50	27.07	24.70	27.07	24.70	27.07	24.70	27.07	24.70	24.70	24.70
	LTE Band 5	100.0%	23.82	23.50	23.82	23.50	27.30	25.20	27.30	25.20	27.30	25.20	27.30	25.20	25.20	25.20
	LTE Band 7	100.0%	17.84	17.00	17.84	17.00	19.15	19.00	19.15	19.00	19.08	19.00	19.08	19.00	23.70	23.70
	LTE Band 12/17	100.0%	25.58	24.20	25.58	24.20	27.27	24.70	27.27	24.70	27.27	24.70	27.27	24.70	24.70	24.70
	LTE Band 13	100.0%	24.36	23.70	24.36	23.70	25.94	24.70	25.94	24.70	25.94	24.70	25.94	24.70	24.70	24.70
	LTE Band 14	100.0%	24.38	23.70	24.38	23.70	25.85	24.70	25.85	24.70	25.85	24.70	25.85	24.70	24.70	24.70
	LTE Band 25/2	100.0%	20.74	19.50	20.74	19.50	20.11	19.20	20.11	19.20	20.11	19.20	20.11	19.20	23.40	23.40
	LTE Band 26	100.0%	24.66	23.50	24.66	23.50	27.93	24.70	27.93	24.70	27.93	24.70	27.93	24.70	24.70	24.70
	LTE Band 30	100.0%	19.74	19.50	19.74	19.50	20.79	19.70	20.79	19.70	19.81	19.70	19.81	19.70	23.70	23.70
	LTE Band 41	63.3%	19.71	18.50	17.72	16.51	21.66	20.50	19.68	18.51	21.66	20.50	19.68	18.51	25.70	23.71
	LTE Band 53	63.3%	18.76	18.50	16.78	16.51	20.52	20.50	18.53	18.51	20.52	20.50	18.53	18.51	20.70	18.71
	LTE Band 66/4	100.0%	23.18	23.00	23.18	23.00	22.26	22.00	22.26	22.00	22.26	22.00	22.26	22.00	25.70	25.70
	LTE Band 71	100.0%	25.70	24.20	25.70	24.20	26.85	24.70	26.85	24.70	26.85	24.70	26.85	24.70	24.70	24.70
	NR n5	100.0%	23.72	23.50	23.72	23.50	26.80	25.20	26.80	25.20	26.80	25.20	26.80	25.20	25.20	25.20
	NR n7	100.0%	17.16	17.00	17.16	17.00	19.47	19.00	19.47	19.00	19.24	19.00	19.24	19.00	23.70	23.70
	NR n12	100.0%	25.59	24.20	25.59	24.20	27.53	24.70	27.53	24.70	27.53	24.70	27.53	24.70	24.70	24.70
	NR n14	100.0%	24.05	23.70	24.05	23.70	25.81	24.70	25.81	24.70	25.81	24.70	25.81	24.70	24.70	24.70
	NR n25/2	100.0%	19.80	19.50	19.80	19.50	19.50	19.20	19.50	19.20	19.50	19.20	19.50	19.20	23.40	23.40
	NR n26	100.0%	24.40	23.50	24.40	23.50	27.12	24.70	27.12	24.70	27.12	24.70	27.12	24.70	24.70	24.70
	NR n30	100.0%	19.54	19.50	19.54	19.50	20.24	19.70	20.24	19.70	19.90	19.70	19.90	19.70	23.20	23.20
	NR n41	100.0%	16.74	16.50	16.74	16.50	18.65	18.50	18.65	18.50	18.65	18.50	18.65	18.50	25.70	25.70
	NR n53	100.0%	17.01	16.50	17.01	16.50	18.59	18.50	18.59	18.50	18.59	18.50	18.59	18.50	20.70	20.70
	NR n66	100.0%	23.23	23.00	23.23	23.00	22.49	22.00	22.49	22.00	22.49	22.00	22.49	22.00	25.70	25.70
	NR n70	100.0%	23.24	23.00	23.24	23.00	22.54	22.00	22.54	22.00	22.54	22.00	22.54	22.00	25.70	25.70
	NR n71	100.0%	25.73	24.20	25.73	24.20	26.94	24.70	26.94	24.70	26.94	24.70	26.94	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)			DS: 0				DS: 1				DS: 1					
Antenna	Tech/Band		P _{avg} (dBm)	P _{max} + Uncertainty (dBm)	P _{avg} (dBm)	P _{max} + Uncertainty (dBm)	P _{avg} (dBm)	P _{max} + Uncertainty (dBm)	P _{avg} (dBm)	P _{max} + Uncertainty (dBm)	P _{avg} (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	
ANT 3	GSM 1900 2 slots	25.0%	36.43	27.20	30.41	21.18	28.61	26.50	22.59	20.48	28.61	26.50	22.59	20.48	31.50	25.48
	W-CDMA B2	100.0%	30.02	21.20	30.02	21.20	20.99	20.50	20.99	20.50	20.99	20.50	20.99	20.50	25.50	25.50
	W-CDMA B4	100.0%	32.06	21.00	32.06	21.00	20.82	20.70	20.82	20.70	20.82	20.70	20.82	20.70	25.50	25.50
	LTE Band 5	100.0%	35.83	25.40	35.83	25.40	27.63	25.40	27.63	25.40	27.63	25.40	27.63	25.40	25.40	25.40
	LTE Band 7	100.0%	27.56	20.20	27.56	20.20	20.91	19.20	20.91	19.20	19.53	19.20	19.53	19.20	25.00	25.00
	LTE Band 12/17	100.0%	36.74	25.40	36.74	25.40	28.80	25.40	28.80	25.40	28.80	25.40	28.80	25.40	25.40	25.40
	LTE Band 13	100.0%	34.69	25.40	34.69	25.40	27.49	25.40	27.49	25.40	27.49	25.40	27.49	25.40	25.40	25.40
	LTE Band 14	100.0%	35.13	25.40	35.13	25.40	27.40	25.40	27.40	25.40	27.40	25.40	27.40	25.40	25.40	25.40
	LTE Band 25/2	100.0%	29.87	21.20	29.87	21.20	21.13	20.50	21.13	20.50	21.13	20.50	21.13	20.50	25.50	25.50
	LTE Band 26	100.0%	33.67	25.40	33.67	25.40	28.06	25.40	28.06	25.40	28.06	25.40	28.06	25.40	25.40	25.40
	LTE Band 30	100.0%	29.50	21.00	29.50	21.00	20.33	20.20	20.33	20.20	20.33	20.20	20.33	20.20	25.00	25.00
	LTE Band 41	63.3%	29.80	22.70	27.81	20.71	22.73	21.80	20.74	19.81	21.82	21.80	19.83	19.81	25.70	23.71
	LTE Band 66/4	100.0%	32.52	21.00	32.52	21.00	20.83	20.70	20.83	20.70	20.83	20.70	20.83	20.70	25.50	25.50
	LTE Band 71	100.0%	37.35	25.40	37.35	25.40	30.19	25.40	30.19	25.40	30.11	25.40	30.11	25.40	25.40	25.40
	NR n5	100.0%	35.33	25.40	35.33	25.40	26.68	25.40	26.68	25.40	26.68	25.40	26.68	25.40	25.40	25.40
	NR n7	100.0%	28.39	20.20	28.39	20.20	19.51	19.20	19.51	19.20	19.27	19.20	19.27	19.20	25.00	25.00
	NR n12	100.0%	37.10	25.40	37.10	25.40	29.77	25.40	29.77	25.40	29.77	25.40	29.77	25.40	25.40	25.40
	NR n14	100.0%	35.43	25.40	35.43	25.40	27.86	25.40	27.86	25.40	27.86	25.40	27.86	25.40	25.40	25.40
	NR n25/2	100.0%	30.22	21.20	30.22	21.20	20.85	20.50	20.85	20.50	20.85	20.50	20.85	20.50	25.50	25.50
	NR n26	100.0%	34.98	25.40	34.98	25.40	28.82	25.40	28.82	25.40	28.82	25.40	28.82	25.40	25.40	25.40
	NR n30	100.0%	28.79	21.00	28.79	21.00	20.34	20.20	20.34	20.20	20.34	20.20	20.34	20.20	24.50	24.50
	NR n41	100.0%	35.06	20.70	35.06	20.70	26.20	19.80	26.20	19.80	24.48	19.80	24.48	19.80	25.70	25.70
	NR n66	100.0%	32.33	21.00	32.33	21.00	20.95	20.70	20.95	20.70	20.95	20.70	20.95	20.70	25.50	25.50
	NR n70	100.0%	32.58	21.00	32.58	21.00	21.12	20.70	21.12	20.70	21.12	20.70	21.12	20.70	25.50	25.50
	NR n71	100.0%	37.77	25.40	37.77	25.40	30.21	25.40	30.21	25.40	30.21	25.40	30.21	25.40	25.40	25.40
ANT 4	GSM 1900 2 slots	25.0%	27.61	25.20	21.59	19.18	26.68	26.20	20.66	20.18	26.68	26.20	20.66	20.18	29.00	22.98
	W-CDMA B2	100.0%	19.42	19.20	19.42	19.20	20.39	20.20	20.39	20.20	20.39	20.20	20.39	20.20	23.40	23.40
	W-CDMA B4	100.0%	20.67	20.50	20.67	20.50	21.17	19.50	21.17	19.50	21.17	19.50	21.17	19.50	23.40	23.40
	LTE Band 7	100.0%	19.37	19.20	19.37	19.20	19.97	18.20	19.97	18.20	18.43	18.20	18.43	18.20	22.70	22.70
	LTE Band 25/2	100.0%	19.86	19.20	19.86	19.20	20.38	20.20	20.38	20.20	20.38	20.20	20.38	20.20	22.90	22.90
	LTE Band 30	100.0%	21.77	21.50	21.77	21.50	19.46	19.00	19.46	19.00	19.30	19.00	19.30	19.00	22.70	22.70
	LTE Band 41	63.3%	21.73	21.50	19.75	19.51	21.86	20.20	19.88	18.21	20.61	20.20	18.62	18.21	25.70	23.71
	LTE Band 48	63.3%	24.32	23.80	22.34	21.81	23.06	21.50	21.07	19.51	23.06	21.50	21.07	19.51	25.20	23.21
	LTE Band 66/4	100.0%	20.63	20.50	20.63	20.50	20.22	19.50	20.22	19.50	20.22	19.50	20.22	19.50	25.20	25.20
	MSS	100.0%	N/A	N/A	N/A	N/A	22.26	21.50	22.26	21.50	22.26	21.50	22.26	21.50	25.80	25.80
	NR n7	100.0%	19.42	19.20	19.42	19.20	19.88	18.20	19.88	18.20	18.40	18.20	18.40	18.20	22.70	22.70
	NR n25/2	100.0%	19.36	19.20	19.36	19.20	20.26	20.20	20.26	20.20	20.26	20.20	20.26	20.20	22.90	22.90
	NR n30	100.0%	21.75	21.50	21.75	21.50	20.19	19.00	20.19	19.00	19.14	19.00	19.14	19.00	22.20	22.20
	NR n41	100.0%	19.73	19.50	19.73	19.50	18.87	18.20	18.87	18.20	18.58	18.20	18.58	18.20	25.70	25.70
	NR n48	100.0%	23.50	21.80	23.50	21.80	20.67	19.50	20.67	19.50	20.67	19.50	20.67	19.50	25.20	25.20
	NR n66	100.0%	20.67	20.50	20.67	20.50	20.98	19.50	20.98	19.50	20.98	19.50	20.98	19.50	25.20	25.20
	NR n70	100.0%	21.15	20.50	21.15	20.50	22.63	19.50	22.63	19.50	22.63	19.50	22.63	19.50	25.20	25.20
	NR n77	100.0%	24.37	20.80	24.37	20.80	19.98	19.50	19.98	19.50	19.98	19.50	19.98	19.50	25.20	25.20
ANT 7	LTE Band 48	63.3%	32.26	23.50	30.28	21.51	24.61	22.50	22.62	20.51	24.61	22.50	22.62	20.51	26.00	24.01
	NR n48	100.0%	29.84	21.50	29.84	21.50	20.90	20.50	20.90	20.50	20.73	20.50	20.73	20.50	26.00	26.00
	NR n77	100.0%	31.68	21.50	31.68	21.50	24.21	19.30	24.21	19.30	22.40	19.30	22.40	19.30	25.70	25.70
ANT 8	LTE Band 48	63.3%	24.96	22.80	22.98	20.81	25.12	22.50	23.13	20.51	22.56	22.50	20.58	20.51	25.60	23.61
	NR n48	100.0%	21.71	20.80	21.71	20.80	21.75	20.50	21.75	20.50	20.54	20.50	20.54	20.50	25.60	25.60
ANT 9	NR n77	100.0%	21.02	20.80	21.02	20.80	21.37	19.30	21.37	19.30	19.49	19.30	19.49	19.30	25.70	25.70
	LTE Band 48	63.3%	37.96	25.30	35.97	23.31	24.08	22.80	22.10	20.81	23.23	22.80	21.24	20.81	26.00	24.01
	NR n48	100.0%	36.87	23.30	36.87	23.30	21.35	20.80	21.35	20.80	20.96	20.80	20.96	20.80	26.00	26.00
ANT 9	NR n77	100.0%	34.78	21.30	34.78	21.30	21.92	18.80	21.92	18.80	21.92	18.80	21.92	18.80	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 3	ANT 4	0.387	0.354	0.390	21.00	21.00	19.75
	5.2	ANT 6	ANT 6	ANT 6	0.451	0.375	0.375	17.25	16.50	20.00
	5.3	ANT 5	N/A	N/A	0.075	N/A	N/A	20.50	N/A	N/A
	5.5	ANT 6	ANT 6	ANT 5	0.231	0.287	0.131	20.50	17.00	19.50
	5.8	ANT 6	ANT 5	ANT 5	0.247	0.448	0.161	21.00	19.50	19.50
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	3.981	3.981	N/A	7.00	7.00

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 3	ANT 4	0.308	0.281	0.309	21.00	21.00	19.75
	5.2	ANT 6	ANT 6	ANT 6	0.223	0.298	0.298	17.25	16.50	20.00
	5.3	ANT 5	N/A	N/A	0.099	N/A	N/A	20.50	N/A	N/A
	5.5	ANT 6	ANT 6	ANT 5	0.183	0.228	0.104	20.50	17.00	19.50
	5.8	ANT 6	ANT 5	ANT 5	0.196	0.356	0.356	21.00	19.50	19.50
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 5	ANT 5	N/A	3.667	3.667	N/A	7.75	7.75

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	44		0.7	1	100	1	CW	Back	4.120	4.550
	25200	2032499	34	162	-2	1	100	1	CW	Back	3.030	3.250
	24350	2018333		172	1.8	1	100	1	CW	Back	4.880	5.330
	24350	2018333		172	1.8	1	100	1	CW	Left	0.355	0.372
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	24350	2018333	28		4.5	1	100	1	CW	Back	4.130	4.360
	25200	2032499		146	6.1	1	100	1	CW	Back	4.120	4.470
	24800	2025833	28	156	2.1	1	100	66	CW	Back	5.030	5.410
	24800	2025833	28	156	2.1	1	100	66	CW	Left	0.987	0.988
	24800	2025833	28	156	2.1	1	100	66	CW	Top	0.136	0.147
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		-0.2	1	100	1	CW	Right	2.460	2.860
	25200	2032499	48	176	-4	1	100	1	CW	Right	2.730	3.070
	25200	2032499		175	0.2	1	100	66	CW	Right	4.030	5.070
	25200	2032499		175	0.2	1	100	66	CW	Back	1.190	1.200
	25200	2032499		175	0.2	1	100	66	CW	Front	1.130	1.140

Dominant Surface	Module	Printed Backoff Value b_f (linear)	FCC PD Limit (W/m ²)	$b_f * PD_{\text{Design Target}} + \text{Total Uncertainty (W/m}^2\text{)}$	Beam/Beam-pair ID	Measured PD (W/m ²)	Meas. PD $\leq b_f * PD_{\text{Design Target}} + \text{Total Uncertainty Criteria 1}$	Surface	Contribution Factor $c(f, i)$
S2 (Back)	0	0.9772	10	6.108	28/156	5.410	Pass: 5.41 $\leq$ 6.108	S2	1.0000
	1	0.9120	10	5.700	175	5.070	Pass: 5.07 $\leq$ 5.7	S4	0.0004
Criteria 2 Verification: $(1 * 5.41) + (0.0004 * 5.07) = 5.412 \leq 6.25$									
S4 (Right)	0	0.9772	10	6.108	28/156	5.410	Pass: 5.41 $\leq$ 6.108	S2	0.0032
	1	0.9120	10	5.700	175	5.070	Pass: 5.07 $\leq$ 5.7	S4	1.0000
Criteria 2 Verification: $(0.0032 * 5.41) + (1 * 5.07) = 5.087 \leq 6.25$									

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	38500	2253330		163	1.3	1	100	1	CW	Back	4.740	4.990
	38500	2253330	45	173	-1.9	1	100	1	CW	Back	4.130	4.330
	37050	2229167	35		2.7	1	100	1	CW	Back	5.320	5.790
	37050	2229167	35		2.7	1	100	1	CW	Left	0.628	0.629
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		145	9.6	1	100	1	CW	Back	3.400	4.010
	37050	2229167	28	156	5.7	1	100	1	CW	Back	3.840	4.290
	37050	2229167	18		9	1	100	1	CW	Back	5.590	6.050
	37050	2229167	18		9	1	100	1	CW	Left	0.542	0.583
	37050	2229167	18		9	1	100	1	CW	Top	0.084	0.119
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	37050	2229167		169	-0.1	1	100	1	CW	Right	1.960	2.560
	37050	2229167	41	169	-4	1	100	1	CW	Right	0.886	1.270
	37050	2229167	40		-2.3	2	200	33	CW	Right	3.280	3.780
	37050	2229167	40		-2.3	2	200	33	CW	Back	1.220	1.360
	37050	2229167	40		-2.3	2	200	33	CW	Front	2.170	2.500

Dominant Surface	Module	Printed Backoff Value b_f (linear)	FCC PD Limit (W/m ²)	$b_f * PD_{\text{Design Target}} + \text{Total Uncertainty (W/m}^2\text{)}$	Beam/Beam-pair ID	Measured PD (W/m ²)	Meas. PD $\leq b_f * PD_{\text{Design Target}} + \text{Total Uncertainty Criteria 1}$	Surface	Contribution Factor $c(f, i)$
S2 (Back)	0	0.9772	10	6.108	18	6.050	Pass: 6.05 $\leq$ 6.108	S2	1.0000
	1	0.9333	10	5.833	40	3.780	Pass: 3.78 $\leq$ 5.833	S4	0.0006
Criteria 2 Verification: $(1 * 6.05) + (0.0006 * 3.78) = 6.052 \leq 6.25$									
S4 (Right)	0	0.9772	10	6.108	18	6.050	Pass: 6.05 $\leq$ 6.108	S2	0.0035
	1	0.9333	10	5.833	40	3.780	Pass: 3.78 $\leq$ 5.833	S4	1.0000
Criteria 2 Verification: $(0.0035 * 6.05) + (1 * 3.78) = 3.801 \leq 6.25$									

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	27925	2077084		164	0.5	1	100	1	CW	Back	3.100	3.850
	27550	2070833	46	174	-3	1	100	1	CW	Back	3.180	3.600
	27925	2077084	35		0.9	1	50	33	CW	Back	4.460	4.960
	27925	2077084	35		0.9	1	50	33	CW	Left	0.284	0.366
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	27550	2070833		145	6.2	1	100	1	CW	Back	3.330	3.700
	27550	2070833	18	146	2.5	1	100	1	CW	Back	2.730	2.980
	27550	2070833	18		5.4	1	100	66	CW	Back	4.060	4.240
	27550	2070833	18		5.4	1	100	66	CW	Left	0.685	0.730
	27550	2070833	18		5.4	1	100	66	CW	Top	0.010	0.016
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	28300	2083330	38		-0.7	1	100	1	CW	Right	3.130	4.970
	28300	2083330		166	-1.1	1	100	1	CW	Right	2.600	3.660
	27925	2077084	38	166	-4.6	1	100	1	CW	Right	2.680	3.690
	28300	2083330	38		-0.7	1	100	1	CW	Back	1.830	1.870
	28300	2083330	38		-0.7	1	100	1	CW	Front	0.908	0.914

Dominant Surface	Module	Printed Backoff Value b_f (linear)	FCC PD Limit (W/m ²)	$b_f * PD_{\text{Design Target}} + \text{Total Uncertainty (W/m}^2\text{)}$	Beam/Beam-pair ID	Measured PD (W/m ²)	Meas. PD $\leq b_f * PD_{\text{Design Target}} + \text{Total Uncertainty Criteria 1}$	Surface	Contribution Factor $c(f, i)$
S4 (Right)	0	0.9772	10	6.108	35	4.960	Pass: 4.96 $\leq$ 6.108	S2	0.0084
	1	0.9333	10	5.833	38	4.970	Pass: 4.97 $\leq$ 5.833	S4	1.0000
Criteria 2 Verification: $(0.0084 * 4.96) + (1 * 4.97) = 5.012 \leq 6.25$									
S2 (Back)	0	0.9772	10	6.108	35	4.960	Pass: 4.96 $\leq$ 6.108	S2	1.0000
	1	0.9333	10	5.833	38	4.970	Pass: 4.97 $\leq$ 5.833	S4	0.0061
Criteria 2 Verification: $(1 * 4.96) + (0.0061 * 4.97) = 4.99 \leq 6.25$									

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 2025833	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	3.2.0.1840		

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 [cm ²]	4.00
psPDn+ [W/m ²]	5.03
psPDtot+ [W/m ²]	5.41
psPDmod+ [W/m ²]	5.50
E _{max} [V/m]	72.3
Power Drift [dB]	0.03

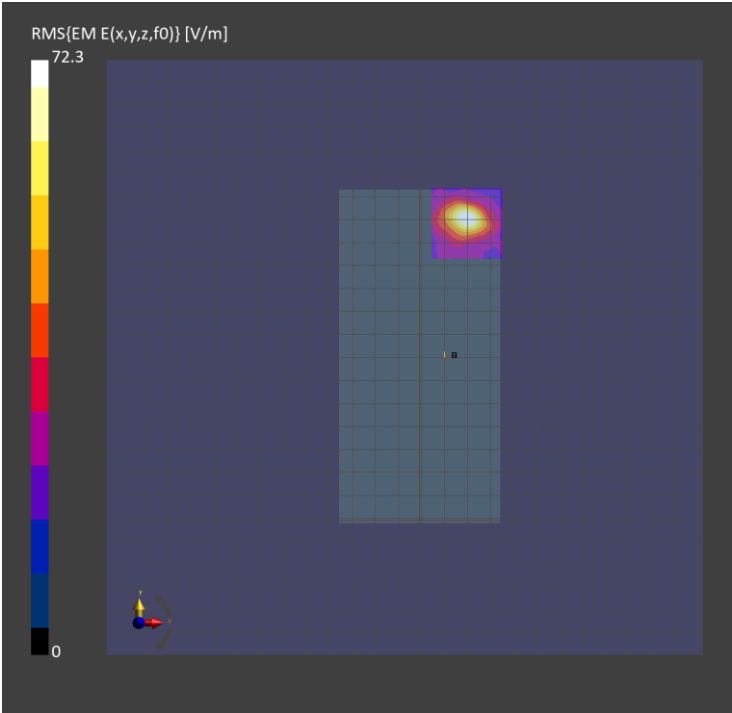


Figure 6-1: Band n258, Beam ID 163, point PD and 4cm² PD, Back

Measurement Report for Custom Band: CW, BACK

Exposure Conditions

Band	Custom Band	Phantom Section	5G
Frequency [MHz] Channel Number	37050.0 37050000	Conversion Factor	1.0
Group UID	CW, 0--	Position Test Distance [mm]	BACK 2.00

Hardware Setup

Probe Calibration Date	EUmmWV4 - SN9589_F1-55GHz 2022-09-20	Phantom	mmWave xxxx
DAE Calibration Date	DAE4 Sn1377 2022-09-15	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]	5.59
psPDtot+ [W/m ²]	6.05
psPDmod+ [W/m ²]	6.51
E _{max} [V/m]	97.0
Power Drift [dB]	-0.05

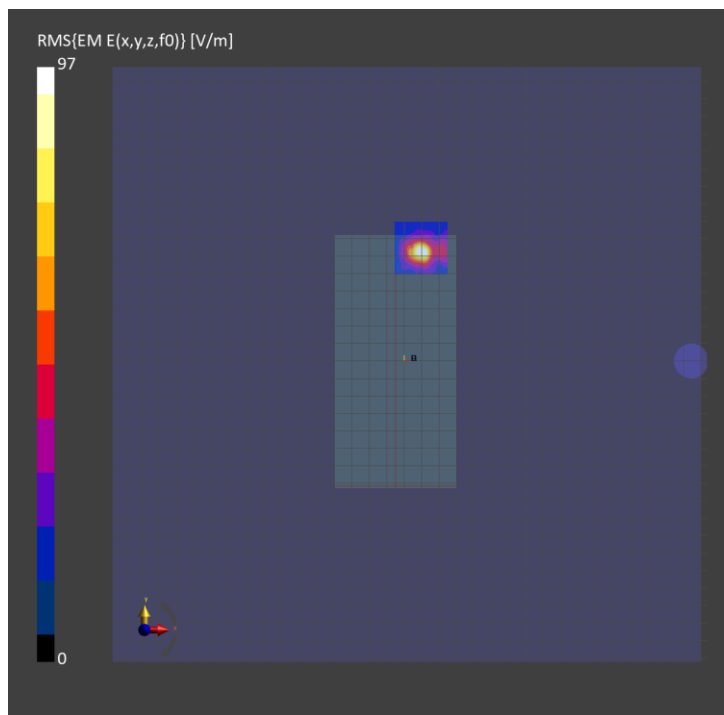


Figure 6-2: Band n260, Beam ID 177, point PD and 4cm² PD, Right

Measurement Report for Custom Band: CW, EDGE RIGHT

Exposure Conditions

Band	Custom Band	Phantom Section	5G
Frequency [MHz] Channel Number	28300.0 2083330	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	3.2.0.1840		

Scan Setup

Scan Type	5G Scan	Grid Extents [mm]	25.0 x 25.0
Grid Steps [lambda]	0.19269041484905072 x 0.19269041484905072	Sensor Surface [mm]	2.0

Measurement Results

Avg. Area [cm ²]	4.00
psPDn+ [W/m ²]	3.13
psPDtot+ [W/m ²]	4.97
psPDmod+ [W/m ²]	5.49
E _{max} [V/m]	86.6
Power Drift [dB]	-0.13

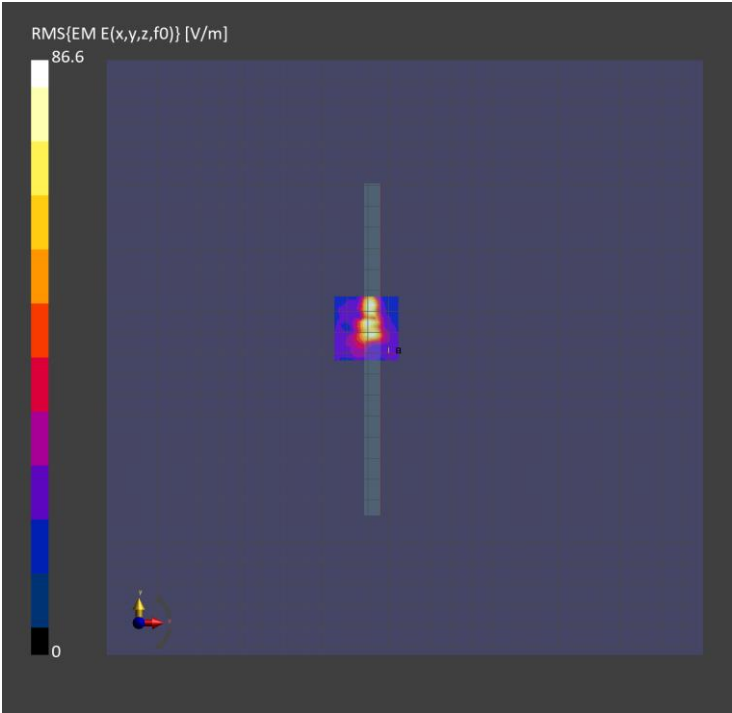


Figure 6-3: Band n261, Beam ID 42, point PD and 4cm² PD, Right

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 $\leq \text{SAR}_{\text{Design Target}}$ (corresponding to P_{limit}) for Sub-6 GHz WWAN and $\leq \text{PD}_{\text{Design Target}}$ (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}	input.power.limit
Maximum time-averaged exposure (Design Targets)	0.755 W/kg (1-g SAR)	3.943 W/m ²
Worst-case time-averaged RF exposure	Reported SAR† = 0.948 W/kg (1-g SAR)	Reported PD = 6.25 W/m ²

†: For this EUT, $(P_{\text{limit}} + 1.0\text{dB uncertainty}) \geq P_{\text{max}}$ (maximum RF tune-up 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 5-2.

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:

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

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.,

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

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:

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

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:

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

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	0.455	-	2.841	2.619	1.140
S2	1.000	0.922	-	5.763	5.410
S3	0.624	-	-	3.600	0.988
S4	1.000	0.652	-	5.763	5.070
S5	0.295	-	-	1.700	0.147
S6	0.061	-	-	0.350	-

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	0.600	-	3.749	3.494	2.500
S2	1.000	0.932	-	5.825	6.050
S3	0.886	-	-	5.163	0.629
S4	1.000	0.717	-	5.825	3.780
S5	0.641	-	-	3.738	0.119
S6	0.081	-	-	0.469	-

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	0.454	-	2.837	2.663	0.914
S2	1.000	0.939	-	5.869	4.960
S3	0.544	-	-	3.194	0.730
S4	1.000	0.641	-	5.869	4.970
S5	0.338	-	-	1.981	0.016
S6	0.059	-	-	0.344	-

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							
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	2.841	0.387	0.308	0.094	0.048	-	-	-				
Ratio to Limit	0.284	0.242	0.192	0.059	0.030	0.526	0.585	0.506				
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						
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	2.841	0.451	0.223	0.065	0.060	0.048	-	-	-	-	-	-
Ratio to Limit	0.284	0.282	0.140	0.040	0.038	0.030	0.566	0.606	0.604	0.454	0.494	0.492
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						
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	2.841	3.981	3.667	0.065	0.060	0.048	-	-	-	-	-	-
Ratio to Limit	0.284	0.398	0.367	0.040	0.038	0.030	0.682	0.722	0.720	0.681	0.721	0.719
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									
TER Combinations	1	2	3	1+2	1+2+3							
Applicable limit	10	1.6	1.6	1	1							
Reported Exposure	2.841	0.350	0.048	-	-							
Ratio to Limit	0.284	0.219	0.030	0.503	0.533							

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	2.841	0.219	-
Ratio to Limit	0.284	0.137	0.421

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	2.841	0.268	0.048	-	-	-
Ratio to Limit	0.284	0.168	0.030	0.452	0.314	0.482

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	3.749	0.387	0.308	0.094	0.048	-	-	-
Ratio to Limit	0.375	0.242	0.192	0.059	0.030	0.617	0.676	0.597

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	3.749	0.451	0.223	0.065	0.060	0.048	-	-	-	-	-	-
Ratio to Limit	0.375	0.282	0.140	0.040	0.038	0.030	0.657	0.697	0.695	0.545	0.585	0.583

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	3.749	3.981	3.667	0.065	0.060	0.048	-	-	-	-	-	-
Ratio to Limit	0.375	0.398	0.367	0.040	0.038	0.030	0.773	0.813	0.811	0.772	0.812	0.810

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	3.749	0.350	0.048	-	-
Ratio to Limit	0.375	0.219	0.030	0.594	0.624

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	3.749	0.219	-
Ratio to Limit	0.375	0.137	0.512

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	3.749	0.268	0.048	-	-	-
Ratio to Limit	0.375	0.168	0.030	0.543	0.405	0.573

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	2.837	0.387	0.308	0.094	0.048	-	-	-
Ratio to Limit	0.284	0.242	0.192	0.059	0.030	0.526	0.585	0.506

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	2.837	0.451	0.223	0.065	0.060	0.048	-	-	-	-	-	-
Ratio to Limit	0.284	0.282	0.140	0.040	0.038	0.030	0.566	0.606	0.604	0.454	0.494	0.492

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	2.837	3.981	3.667	0.065	0.060	0.048	-	-	-	-	-	-
Ratio to Limit	0.284	0.398	0.367	0.040	0.038	0.030	0.682	0.722	0.720	0.681	0.721	0.719

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	2.837	0.350	0.048	-	-
Ratio to Limit	0.284	0.219	0.030	0.503	0.533

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	2.837	0.219	-
Ratio to Limit	0.284	0.137	0.421

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	2.837	0.268	0.048	-	-	-
Ratio to Limit	0.284	0.168	0.030	0.452	0.314	0.482

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	2.619	0.354	0.281	0.009	0.013		-	-	-			
	Ratio to Limit	0.262	0.221	0.176	0.005	0.008		0.483	0.443	0.446			
S2 @ 5 mm	Reported Exposure	5.763	0.354	0.281	0.084	0.051		-	-	-			
	Ratio to Limit	0.576	0.221	0.176	0.052	0.032		0.798	0.804	0.784			
S3 @ 5 mm	Reported Exposure	3.600	0.387	0.307	0.032	0.057		-	-	-			
	Ratio to Limit	0.360	0.242	0.192	0.020	0.036		0.602	0.572	0.588			
S4 @ 5 mm	Reported Exposure	5.763	0.390	0.309	0.000	0.004		-	-	-			
	Ratio to Limit	0.576	0.243	0.193	0.000	0.002		0.820	0.770	0.772			
S5 @ 5 mm	Reported Exposure	1.700	0.354	0.281	0.000	0.004		-	-	-			
	Ratio to Limit	0.170	0.221	0.176	0.000	0.002		0.391	0.346	0.348			
S6 @ 5 mm	Reported Exposure	0.350	0.354	0.281	0.000	0.004		-	-	-			
	Ratio to Limit	0.035	0.221	0.176	0.000	0.002		0.256	0.211	0.213			
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		
S1 @ 5 mm	Reported Exposure	2.619	0.032	0.011	0.048	0.020	0.013	-	-	-	-	-	-
	Ratio to Limit	0.262	0.020	0.007	0.030	0.013	0.008	0.282	0.312	0.294	0.277	0.307	0.289
S2 @ 5 mm	Reported Exposure	5.763	0.448	0.356	0.081	0.023	0.051	-	-	-	-	-	-
	Ratio to Limit	0.576	0.280	0.223	0.051	0.015	0.032	0.856	0.907	0.871	0.831	0.881	0.845
S3 @ 5 mm	Reported Exposure	3.600	0.161	0.104	0.075	0.000	0.057	-	-	-	-	-	-
	Ratio to Limit	0.360	0.101	0.065	0.047	0.000	0.036	0.461	0.508	0.461	0.461	0.508	0.461
S4 @ 5 mm	Reported Exposure	5.763	0.032	0.011	0.082	0.020	0.004	-	-	-	-	-	-
	Ratio to Limit	0.576	0.020	0.007	0.051	0.013	0.002	0.596	0.648	0.609	0.585	0.637	0.598
S5 @ 5 mm	Reported Exposure	1.700	0.032	0.011	0.004	0.002	0.004	-	-	-	-	-	-
	Ratio to Limit	0.170	0.020	0.007	0.003	0.001	0.002	0.190	0.193	0.191	0.179	0.182	0.181
S6 @ 5 mm	Reported Exposure	0.350	0.032	0.011	0.011	0.000	0.004	-	-	-	-	-	-
	Ratio to Limit	0.035	0.020	0.007	0.007	0.000	0.002	0.055	0.061	0.055	0.044	0.051	0.044

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	2.619	3.981	3.667	0.048	0.020	0.013	-	-	-	-	-
	Ratio to Limit	0.262	0.398	0.367	0.005	0.013	0.008	0.660	0.665	0.673	0.637	0.649
S2 @ 5 mm	Reported Exposure	5.763	3.981	3.667	0.081	0.023	0.051	-	-	-	-	-
	Ratio to Limit	0.576	0.398	0.367	0.008	0.015	0.032	0.974	0.982	0.989	0.975	0.983
S3 @ 5 mm	Reported Exposure	3.600	3.981	3.667	0.075	0.000	0.057	-	-	-	-	-
	Ratio to Limit	0.360	0.398	0.367	0.008	0.000	0.036	0.758	0.766	0.758	0.763	0.770
S4 @ 5 mm	Reported Exposure	5.763	3.981	3.667	0.082	0.020	0.004	-	-	-	-	-
	Ratio to Limit	0.576	0.398	0.367	0.008	0.013	0.002	0.974	0.983	0.987	0.945	0.953
S5 @ 5 mm	Reported Exposure	1.700	3.981	3.667	0.004	0.002	0.004	-	-	-	-	-
	Ratio to Limit	0.170	0.398	0.367	0.000	0.001	0.002	0.568	0.568	0.569	0.539	0.540
S6 @ 5 mm	Reported Exposure	0.350	3.981	3.667	0.011	0.000	0.004	-	-	-	-	-
	Ratio to Limit	0.035	0.398	0.367	0.001	0.000	0.002	0.433	0.434	0.433	0.404	0.405

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
	W/m ²		W/kg	W/kg		
Scenario	1		2	3	1+2	1+2+3
Applicable limit	10		1.6	1.6	1	1
S1 @ 5 mm	Reported Exposure		2.619	0.196	0.013	-
	Ratio to Limit		0.262	0.123	0.008	0.385
S2 @ 5 mm	Reported Exposure		5.763	0.359	0.051	-
	Ratio to Limit		0.576	0.224	0.032	0.801
S3 @ 5 mm	Reported Exposure		3.600	0.398	0.057	-
	Ratio to Limit		0.360	0.249	0.036	0.609
S4 @ 5 mm	Reported Exposure		5.763	0.381	0.004	-
	Ratio to Limit		0.576	0.238	0.002	0.814
S5 @ 5 mm	Reported Exposure		1.700	0.023	0.004	-
	Ratio to Limit		0.170	0.015	0.002	0.185
S6 @ 5 mm	Reported Exposure		0.350	0.052	0.004	-
	Ratio to Limit		0.035	0.032	0.002	0.067

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	2.619	0.052	-
	Ratio to Limit	0.262	0.032	0.294
S2 @ 5 mm	Reported Exposure	5.763	0.399	-
	Ratio to Limit	0.576	0.250	0.826
S3 @ 5 mm	Reported Exposure	3.600	0.158	-
	Ratio to Limit	0.360	0.099	0.459
S4 @ 5 mm	Reported Exposure	5.763	0.006	-
	Ratio to Limit	0.576	0.004	0.580
S5 @ 5 mm	Reported Exposure	1.700	0.040	-
	Ratio to Limit	0.170	0.025	0.195
S6 @ 5 mm	Reported Exposure	0.350	0.021	-
	Ratio to Limit	0.035	0.013	0.048

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	2.619	0.090	0.013	-	-	-
	Ratio to Limit	0.262	0.057	0.008	0.318	0.270	0.327
S2 @ 5 mm	Reported Exposure	5.763	0.101	0.051	-	-	-
	Ratio to Limit	0.576	0.063	0.032	0.640	0.608	0.671
S3 @ 5 mm	Reported Exposure	3.600	0.012	0.057	-	-	-
	Ratio to Limit	0.360	0.008	0.036	0.368	0.396	0.404
S4 @ 5 mm	Reported Exposure	5.763	0.072	0.004	-	-	-
	Ratio to Limit	0.576	0.045	0.002	0.621	0.578	0.623
S5 @ 5 mm	Reported Exposure	1.700	0.020	0.004	-	-	-
	Ratio to Limit	0.170	0.013	0.002	0.183	0.172	0.185
S6 @ 5 mm	Reported Exposure	0.350	0.000	0.004	-	-	-
	Ratio to Limit	0.035	0.000	0.002	0.035	0.037	0.037

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	3.494	0.354	0.281	0.009	0.013		-	-	-			
	Ratio to Limit	0.349	0.221	0.176	0.005	0.008		0.571	0.531	0.533			
S2 @ 5 mm	Reported Exposure	5.825	0.354	0.281	0.084	0.051		-	-	-			
	Ratio to Limit	0.583	0.221	0.176	0.052	0.032		0.804	0.811	0.790			
S3 @ 5 mm	Reported Exposure	5.163	0.387	0.307	0.032	0.057		-	-	-			
	Ratio to Limit	0.516	0.242	0.192	0.020	0.036		0.758	0.729	0.744			
S4 @ 5 mm	Reported Exposure	5.825	0.390	0.309	0.000	0.004		-	-	-			
	Ratio to Limit	0.583	0.243	0.193	0.000	0.002		0.826	0.776	0.778			
S5 @ 5 mm	Reported Exposure	3.738	0.354	0.281	0.000	0.004		-	-	-			
	Ratio to Limit	0.374	0.221	0.176	0.000	0.002		0.595	0.550	0.552			
S6 @ 5 mm	Reported Exposure	0.469	0.354	0.281	0.000	0.004		-	-	-			
	Ratio to Limit	0.047	0.221	0.176	0.000	0.002		0.268	0.223	0.225			
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		
S1 @ 5 mm	Reported Exposure	3.494	0.032	0.011	0.048	0.020	0.013	-	-	-	-	-	-
	Ratio to Limit	0.349	0.020	0.007	0.030	0.013	0.008	0.369	0.399	0.382	0.364	0.394	0.377
S2 @ 5 mm	Reported Exposure	5.825	0.448	0.356	0.081	0.023	0.051	-	-	-	-	-	-
	Ratio to Limit	0.583	0.280	0.223	0.051	0.015	0.032	0.863	0.914	0.877	0.837	0.888	0.852
S3 @ 5 mm	Reported Exposure	5.163	0.161	0.104	0.075	0.000	0.057	-	-	-	-	-	-
	Ratio to Limit	0.516	0.101	0.065	0.047	0.000	0.036	0.617	0.664	0.617	0.617	0.664	0.617
S4 @ 5 mm	Reported Exposure	5.825	0.032	0.011	0.082	0.020	0.004	-	-	-	-	-	-
	Ratio to Limit	0.583	0.020	0.007	0.051	0.013	0.002	0.602	0.654	0.615	0.592	0.643	0.604
S5 @ 5 mm	Reported Exposure	3.738	0.032	0.011	0.004	0.002	0.004	-	-	-	-	-	-
	Ratio to Limit	0.374	0.020	0.007	0.003	0.001	0.002	0.394	0.396	0.395	0.383	0.386	0.384
S6 @ 5 mm	Reported Exposure	0.469	0.032	0.011	0.011	0.000	0.004	-	-	-	-	-	-
	Ratio to Limit	0.047	0.020	0.007	0.007	0.000	0.002	0.067	0.073	0.067	0.056	0.063	0.056

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	3.494	3.981	3.667	0.048	0.020	0.013	-	-	-	-	-
	Ratio to Limit	0.349	0.398	0.367	0.005	0.013	0.008	0.747	0.752	0.760	0.724	0.729
S2 @ 5 mm	Reported Exposure	5.825	3.981	3.667	0.081	0.023	0.051	-	-	-	-	-
	Ratio to Limit	0.583	0.398	0.367	0.008	0.015	0.032	0.981	0.989	0.995	0.981	0.989
S3 @ 5 mm	Reported Exposure	5.163	3.981	3.667	0.075	0.000	0.057	-	-	-	-	-
	Ratio to Limit	0.516	0.398	0.367	0.008	0.000	0.036	0.914	0.922	0.914	0.919	0.926
S4 @ 5 mm	Reported Exposure	5.825	3.981	3.667	0.082	0.020	0.004	-	-	-	-	-
	Ratio to Limit	0.583	0.398	0.367	0.008	0.013	0.002	0.981	0.989	0.993	0.951	0.960
S5 @ 5 mm	Reported Exposure	3.738	3.981	3.667	0.004	0.002	0.004	-	-	-	-	-
	Ratio to Limit	0.374	0.398	0.367	0.000	0.001	0.002	0.772	0.772	0.773	0.743	0.743
S6 @ 5 mm	Reported Exposure	0.469	3.981	3.667	0.011	0.000	0.004	-	-	-	-	-
	Ratio to Limit	0.047	0.398	0.367	0.001	0.000	0.002	0.445	0.446	0.445	0.416	0.417

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
	W/m ²		W/kg	W/kg		
Scenario	1		2	3	1+2	1+2+3
Applicable limit	10		1.6	1.6	1	1
S1 @ 5 mm	Reported Exposure		3.494	0.196	0.013	-
	Ratio to Limit		0.349	0.123	0.008	0.472
S2 @ 5 mm	Reported Exposure		5.825	0.359	0.051	-
	Ratio to Limit		0.583	0.224	0.032	0.807
S3 @ 5 mm	Reported Exposure		5.163	0.398	0.057	-
	Ratio to Limit		0.516	0.249	0.036	0.765
S4 @ 5 mm	Reported Exposure		5.825	0.381	0.004	-
	Ratio to Limit		0.583	0.238	0.002	0.821
S5 @ 5 mm	Reported Exposure		3.738	0.023	0.004	-
	Ratio to Limit		0.374	0.015	0.002	0.388
S6 @ 5 mm	Reported Exposure		0.469	0.052	0.004	-
	Ratio to Limit		0.047	0.032	0.002	0.079

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	3.494	0.052	-
	Ratio to Limit	0.349	0.032	0.382
S2 @ 5 mm	Reported Exposure	5.825	0.399	-
	Ratio to Limit	0.583	0.250	0.832
S3 @ 5 mm	Reported Exposure	5.163	0.158	-
	Ratio to Limit	0.516	0.099	0.615
S4 @ 5 mm	Reported Exposure	5.825	0.006	-
	Ratio to Limit	0.583	0.004	0.586
S5 @ 5 mm	Reported Exposure	3.738	0.040	-
	Ratio to Limit	0.374	0.025	0.398
S6 @ 5 mm	Reported Exposure	0.469	0.021	-
	Ratio to Limit	0.047	0.013	0.060

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	3.494	0.090	0.013	-	-	-
	Ratio to Limit	0.349	0.057	0.008	0.406	0.358	0.414
S2 @ 5 mm	Reported Exposure	5.825	0.101	0.051	-	-	-
	Ratio to Limit	0.583	0.063	0.032	0.646	0.614	0.678
S3 @ 5 mm	Reported Exposure	5.163	0.012	0.057	-	-	-
	Ratio to Limit	0.516	0.008	0.036	0.524	0.552	0.560
S4 @ 5 mm	Reported Exposure	5.825	0.072	0.004	-	-	-
	Ratio to Limit	0.583	0.045	0.002	0.627	0.585	0.630
S5 @ 5 mm	Reported Exposure	3.738	0.020	0.004	-	-	-
	Ratio to Limit	0.374	0.013	0.002	0.386	0.376	0.389
S6 @ 5 mm	Reported Exposure	0.469	0.000	0.004	-	-	-
	Ratio to Limit	0.047	0.000	0.002	0.047	0.049	0.049

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	2.663	0.354	0.281	0.009	0.013		-	-	-			
	Ratio to Limit	0.266	0.221	0.176	0.005	0.008		0.488	0.448	0.450			
S2 @ 5 mm	Reported Exposure	5.869	0.354	0.281	0.084	0.051		-	-	-			
	Ratio to Limit	0.587	0.221	0.176	0.052	0.032		0.808	0.815	0.795			
S3 @ 5 mm	Reported Exposure	3.194	0.387	0.307	0.032	0.057		-	-	-			
	Ratio to Limit	0.319	0.242	0.192	0.020	0.036		0.561	0.532	0.547			
S4 @ 5 mm	Reported Exposure	5.869	0.390	0.309	0.000	0.004		-	-	-			
	Ratio to Limit	0.587	0.243	0.193	0.000	0.002		0.830	0.780	0.783			
S5 @ 5 mm	Reported Exposure	1.981	0.354	0.281	0.000	0.004		-	-	-			
	Ratio to Limit	0.198	0.221	0.176	0.000	0.002		0.420	0.374	0.376			
S6 @ 5 mm	Reported Exposure	0.344	0.354	0.281	0.000	0.004		-	-	-			
	Ratio to Limit	0.034	0.221	0.176	0.000	0.002		0.256	0.210	0.213			
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		
S1 @ 5 mm	Reported Exposure	2.663	0.032	0.011	0.048	0.020	0.013	-	-	-	-	-	-
	Ratio to Limit	0.266	0.020	0.007	0.030	0.013	0.008	0.286	0.316	0.299	0.281	0.311	0.294
S2 @ 5 mm	Reported Exposure	5.869	0.448	0.356	0.081	0.023	0.051	-	-	-	-	-	-
	Ratio to Limit	0.587	0.280	0.223	0.051	0.015	0.032	0.867	0.918	0.882	0.841	0.892	0.856
S3 @ 5 mm	Reported Exposure	3.194	0.161	0.104	0.075	0.000	0.057	-	-	-	-	-	-
	Ratio to Limit	0.319	0.101	0.065	0.047	0.000	0.036	0.420	0.467	0.420	0.420	0.467	0.420
S4 @ 5 mm	Reported Exposure	5.869	0.032	0.011	0.082	0.020	0.004	-	-	-	-	-	-
	Ratio to Limit	0.587	0.020	0.007	0.051	0.013	0.002	0.607	0.658	0.619	0.596	0.647	0.609
S5 @ 5 mm	Reported Exposure	1.981	0.032	0.011	0.004	0.002	0.004	-	-	-	-	-	-
	Ratio to Limit	0.198	0.020	0.007	0.003	0.001	0.002	0.218	0.221	0.219	0.207	0.210	0.209
S6 @ 5 mm	Reported Exposure	0.344	0.032	0.011	0.011	0.000	0.004	-	-	-	-	-	-
	Ratio to Limit	0.034	0.020	0.007	0.007	0.000	0.002	0.054	0.061	0.054	0.043	0.050	0.043

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	2.663	3.981	3.667	0.048	0.020	0.013	-	-	-	-	-
	Ratio to Limit	0.266	0.398	0.367	0.005	0.013	0.008	0.664	0.669	0.677	0.641	0.654
S2 @ 5 mm	Reported Exposure	5.869	3.981	3.667	0.081	0.023	0.051	-	-	-	-	-
	Ratio to Limit	0.587	0.398	0.367	0.008	0.015	0.032	0.985	0.993	1.000	0.985	1.000
S3 @ 5 mm	Reported Exposure	3.194	3.981	3.667	0.075	0.000	0.057	-	-	-	-	-
	Ratio to Limit	0.319	0.398	0.367	0.008	0.000	0.036	0.717	0.725	0.718	0.722	0.729
S4 @ 5 mm	Reported Exposure	5.869	3.981	3.667	0.082	0.020	0.004	-	-	-	-	-
	Ratio to Limit	0.587	0.398	0.367	0.008	0.013	0.002	0.985	0.993	0.998	0.956	0.964
S5 @ 5 mm	Reported Exposure	1.981	3.981	3.667	0.004	0.002	0.004	-	-	-	-	-
	Ratio to Limit	0.198	0.398	0.367	0.000	0.001	0.002	0.596	0.597	0.598	0.567	0.568
S6 @ 5 mm	Reported Exposure	0.344	3.981	3.667	0.011	0.000	0.004	-	-	-	-	-
	Ratio to Limit	0.034	0.398	0.367	0.001	0.000	0.002	0.432	0.434	0.433	0.403	0.403

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
		W/m ²	W/kg	W/kg		
Scenario		1	2	3	1+2	1+2+3
Applicable limit		10	1.6	1.6	1	1
S1 @ 5 mm	Reported Exposure	2.663	0.196	0.013	-	-
	Ratio to Limit	0.266	0.123	0.008	0.389	0.397
S2 @ 5 mm	Reported Exposure	5.869	0.359	0.051	-	-
	Ratio to Limit	0.587	0.224	0.032	0.811	0.843
S3 @ 5 mm	Reported Exposure	3.194	0.398	0.057	-	-
	Ratio to Limit	0.319	0.249	0.036	0.568	0.604
S4 @ 5 mm	Reported Exposure	5.869	0.381	0.004	-	-
	Ratio to Limit	0.587	0.238	0.002	0.825	0.827
S5 @ 5 mm	Reported Exposure	1.981	0.023	0.004	-	-
	Ratio to Limit	0.198	0.015	0.002	0.213	0.215
S6 @ 5 mm	Reported Exposure	0.344	0.052	0.004	-	-
	Ratio to Limit	0.034	0.032	0.002	0.067	0.069

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	2.663	0.052	-
	Ratio to Limit	0.266	0.032	0.299
S2 @ 5 mm	Reported Exposure	5.869	0.399	-
	Ratio to Limit	0.587	0.250	0.837
S3 @ 5 mm	Reported Exposure	3.194	0.158	-
	Ratio to Limit	0.319	0.099	0.418
S4 @ 5 mm	Reported Exposure	5.869	0.006	-
	Ratio to Limit	0.587	0.004	0.591
S5 @ 5 mm	Reported Exposure	1.981	0.040	-
	Ratio to Limit	0.198	0.025	0.223
S6 @ 5 mm	Reported Exposure	0.344	0.021	-
	Ratio to Limit	0.034	0.013	0.048

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	2.663	0.090	0.013	-	-	-
	Ratio to Limit	0.266	0.057	0.008	0.323	0.274	0.331
S2 @ 5 mm	Reported Exposure	5.869	0.101	0.051	-	-	-
	Ratio to Limit	0.587	0.063	0.032	0.650	0.619	0.682
S3 @ 5 mm	Reported Exposure	3.194	0.012	0.057	-	-	-
	Ratio to Limit	0.319	0.008	0.036	0.327	0.355	0.363
S4 @ 5 mm	Reported Exposure	5.869	0.072	0.004	-	-	-
	Ratio to Limit	0.587	0.045	0.002	0.632	0.589	0.634
S5 @ 5 mm	Reported Exposure	1.981	0.020	0.004	-	-	-
	Ratio to Limit	0.198	0.013	0.002	0.211	0.201	0.213
S6 @ 5 mm	Reported Exposure	0.344	0.000	0.004	-	-	-
	Ratio to Limit	0.034	0.000	0.002	0.034	0.037	0.037

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)	0.948	Refer to §1 for the reference SAR Report
Highest 4cm ² -avg PD at <i>input.power.limit</i> (W/m ²)	6.050	§6.2
Highest 1-g SAR (W/kg) for simultaneous Tx (Sub-6 WWAN + WLAN)	1.477	Refer to §1 for the reference SAR Report
Highest Total Exposure Ratio for simultaneous Tx (5G mmW NR + WLAN)	1.000	§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