



**SAR EVALUATION REPORT**

**IEEE Std 1528-2013**

*For*  
**SMARTPHONE**

**FCC ID: BCG-E8427A**  
**Model Name: A2846**

**Report Number: 14523758-S1V5**  
**Issue Date: 8/2/2023**

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**Revision History**

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V2	7/7/2023	Section 9.3: Updated max output power table Section 9.6: Updated max output power table Section 9.8: Updated max output power tables Section 10.38: Updated table Appendix G: Updated max output power tables	Coltyce Sanders
V3	7/10/2023	Section 9.11: Updated max output power table	Devin Chang
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# 1. Attestation of Test Results



Applicant Name	APPLE INC.							
FCC ID	BCG-E8427A							
Model Name	A2846							
Applicable Standards	Published RF exposure KDB procedures IEEE Std 1528-2013							
Exposure Category	SAR Limits (W/Kg)							
	Peak spatial-average (1g of tissue)				Extremities (hands, wrists, ankles, etc.) (10g of tissue)			
General population / Uncontrolled exposure	1.6				4			
RF Exposure Conditions	<u>Equipment Class</u> - Highest Reported SAR (W/kg)							
	TNE	PCE	CBE	DTS	NII	DSS	DXX	
Head	0.898	0.945	0.934	1.121	1.076	0.993	N/A	
Body-worn (Dist.= 5 mm)	0.930	0.950	0.766	0.858	1.088	0.501	N/A	
Hotspot (Dist.= 5 mm)	0.930	0.950	0.931	1.094	1.136	0.743	N/A	
Extremities (Dist.= 0 mm)	N/A	N/A	N/A	N/A	N/A	N/A	0.005	
Simultaneous TX	Head	1.294	1.496	1.456	1.496	1.444	1.444	N/A
	Body-worn	1.424	1.444	1.259	1.352	1.444	1.444	N/A
	Hotspot	1.424	1.487	1.469	1.487	1.444	1.444	N/A
Date Tested	5/17/2023 to 7/5/2023							
Test Results	Pass							

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 can demonstrate 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 considered 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 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:
	
Devin Chang Senior Test Engineer UL Verification Services Inc.	AJ Newcomer Laboratory Engineer UL Verification Services Inc.

## 2. Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE Std 1528-2013, the following FCC Published RF exposure [KDB](#) procedures:

- 248227 D01 802.11 Wi-Fi SAR v02r02
- 447498 D01 General RF Exposure Guidance v06
- 447498 D03 Supplement C Cross-Reference v01
- 648474 D04 Handset SAR v01r03
- 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- 865664 D02 RF Exposure Reporting v01r02
- 941225 D01 3G SAR Procedures v03r01
- 941225 D05 SAR for LTE Devices v02r05
- 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02
- 941225 D06 Hotspot Mode v02r01

In addition to the above, the following information was used:

- **TCB workshop** October 2014; RF Exposure Procedures (Other LTE Considerations)
- **TCB workshop** April 2015; RF Exposure Procedures (Overlapping LTE Bands)
- **TCB workshop** October 2015; RF Exposure Procedures (KDB 941225 D05A)
- **TCB workshop** April 2016; RF Exposure Procedures (LTE Carrier Aggregation for DL)
- **TCB workshop** October 2016; RF Exposure Procedures (LTE Carrier Aggregation for UL)
- **TCB workshop** October 2016; RF Exposure Procedures (Bluetooth Duty Factor)
- **TCB workshop** October 2016; RF Exposure Procedures (DUT Holder Perturbations)
- **TCB workshop** May 2017; RF Exposure Procedures (Broadband Liquid Above 3 GHz)
- **TCB workshop** May 2017; RF Exposure Procedures (LTE Band 41 Power Class 2)
- **TCB workshop** November 2017; RF Exposure Procedures (LTE UL/DL Carrier Aggregation SAR)
- **TCB workshop** April 2018; RF Exposure Procedures (LTE DL CA SAR Test Exclusion)
- **TCB workshop** October 2018; RF Exposure Procedures (LTE Inter-Band Uplink Carrier Aggregation – Interim Procedures)
- **TCB workshop** April 2019; RF Exposure Procedures (802.11ax SAR Testing)
- **TCB workshop** November 2019; RF Exposure Policy Updates (5G NR FR1 NSA EN-DCUE SAR Evaluations)
- **TCB workshop** October 2020; 5G and RF Exposure Procedures (U-NII 6-7 GHz SAR Testing)
- **TCB workshop** April 2021; RF Exposure Procedures (Remarks on Test Reductions via Data Referencing for Closely Related Products)

## 3. 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 I	SAR Labs 1 to 19

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

The Test Lab Conformity Assessment Body Identifier (CABID)

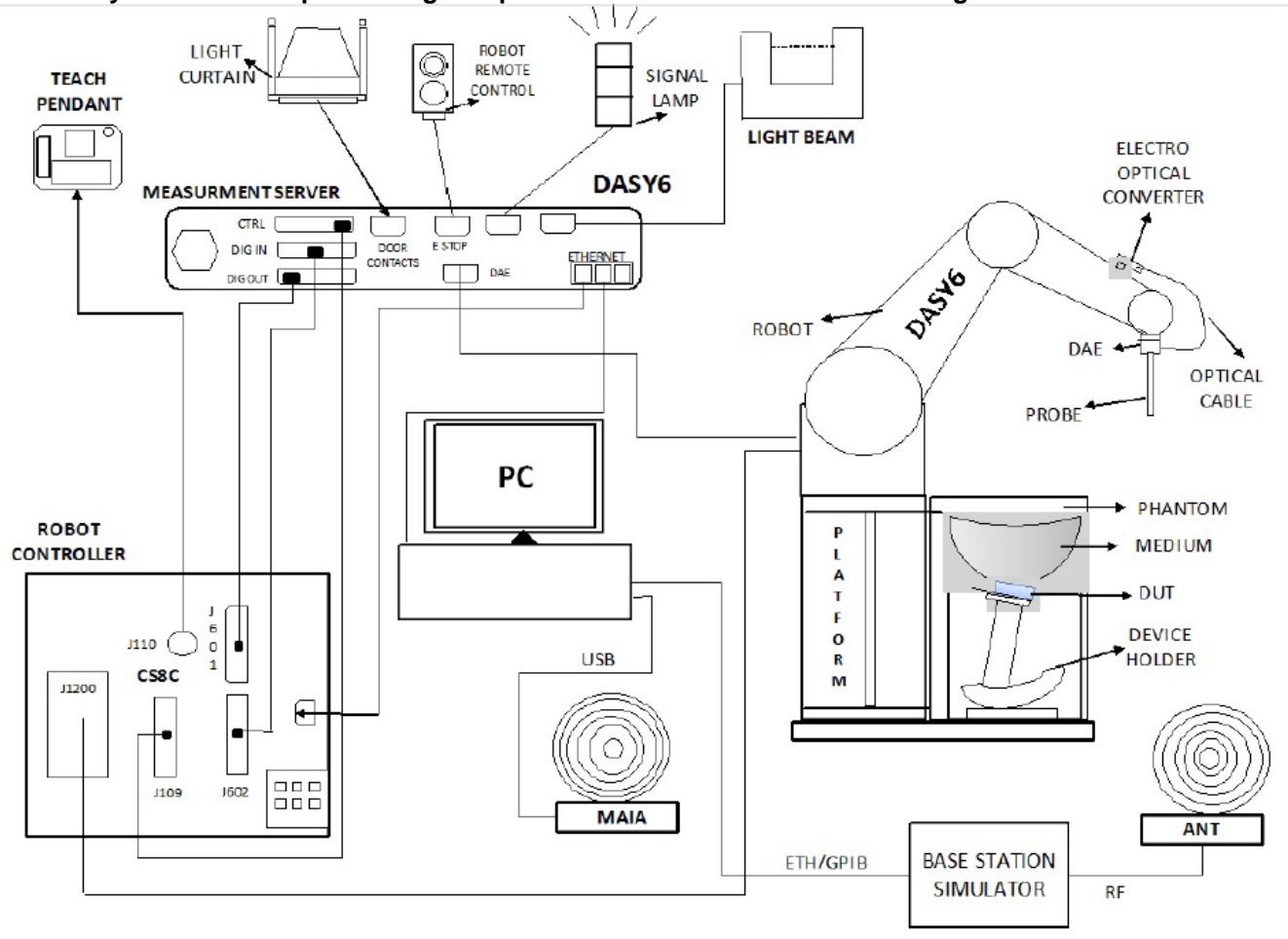
Location	CABID	Company Number
47173 Benicia Street, Fremont, CA, 94538 UNITED STATES	US0104	2324A
47266 Benicia Street, Fremont, CA, 94538 UNITED STATES		22541



## 4. SAR Measurement System & Test Equipment

### 4.1. SAR Measurement System

The DASY system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win10 and the DASY6/8<sup>1</sup> software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder, and other accessories according to the targeted measurement.

<sup>1</sup> DASY6/8 software used: DASY6.16.2 or DASY8.16.2 and older generations.

## 4.2. SAR Scan Procedures

### Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. The minimum distance of probe sensors to surface is 2.1 mm. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

### Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEC/IEEE 62209-1528, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan). If only one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of Zoom Scans has to be increased accordingly.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

	$\leq 3$ GHz	$> 3$ GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	$5 \pm 1$ mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{Area}$ , $\Delta y_{Area}$	$\leq 2$ GHz: $\leq 15$ mm $2 - 3$ GHz: $\leq 12$ mm	$3 - 4$ GHz: $\leq 12$ mm $4 - 6$ GHz: $\leq 10$ mm
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

**Step 3: Zoom Scan**

Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The Zoom Scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1 g and 10 g and displays these values next to the job's label.

Zoom Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

		$\leq 3$ GHz	$> 3$ GHz	
Maximum zoom scan spatial resolution: $\Delta x_{Zoom}, \Delta y_{Zoom}$		$\leq 2$ GHz: $\leq 8$ mm 2 – 3 GHz: $\leq 5$ mm*	3 – 4 GHz: $\leq 5$ mm* 4 – 6 GHz: $\leq 4$ mm*	
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	$\leq 5$ mm	3 – 4 GHz: $\leq 4$ mm 4 – 5 GHz: $\leq 3$ mm 5 – 6 GHz: $\leq 2$ mm	
	graded grid	$\Delta z_{Zoom}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface	$\leq 4$ mm	3 – 4 GHz: $\leq 3$ mm 4 – 5 GHz: $\leq 2.5$ mm 5 – 6 GHz: $\leq 2$ mm
		$\Delta z_{Zoom}(n>1)$ : between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z	$\geq 30$ mm	3 – 4 GHz: $\geq 28$ mm 4 – 5 GHz: $\geq 25$ mm 5 – 6 GHz: $\geq 22$ mm	
Note: $\delta$ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details. * When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is $\leq 1.4$ W/kg, $\leq 8$ mm, $\leq 7$ mm and $\leq 5$ mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

**Step 4: Power drift measurement**

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

### 4.3. Test Equipment

The measuring equipment used to perform the tests documented in this report has been calibrated in accordance with the manufacturers' recommendations and is traceable to recognized national standards.

#### Dielectric Property Measurements

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Vector Network Analyzer	ROHDE & SCHWARZ	ZNLE6	101274-mn	2/19/2024
Dielectric Probe kit	SPEAG	DAK-3.5	1103	2/28/2024
Shorting Block	SPEAG	DAK-1.2/3.5 Short	SM DAK 200 BA	2/28/2024
Thermometer	Fisher Scientific	Traceable	122529162	8/9/2023
Vector Network Analyzer	ROHDE & SCHWARZ	ZNLE6	101273-VA	2/19/2024
Dielectric Probe kit	SPEAG	DAK-3.5	1082	9/19/2023
Dielectric Probe kit	SPEAG	DAK-12	1128	1/16/2024
Shorting Block	SPEAG	DAK-1.2/3.5 Short	SM DAK 200 BA	9/19/2023
Shorting Block	SPEAG	DAK-12 Short	SM DAK 220 AC	1/16/2024
Thermometer	Fisher Scientific	Traceable	140493798	4/30/2024
Vector Network Analyzer	Copper Mountain Tech	R140N	21130078	4/30/2024
Dielectric Probe kit	SPEAG	DAK-3.5	1087	11/17/2023
Shorting Block	SPEAG	DAK-1.2/3.5 Short	SM DAK 200 BA	11/17/2023
Thermometer	Fisher Scientific	Traceable	170064398	4/10/2024

#### System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
MXG Analog Signal Generator	Agilent	N5181A	MY50140610	1/31/2024
Power Meter	HP	437B	3125U11364	1/31/2024
Power Meter	HP	437B	3125U11347	1/31/2024
Power Sensor	HP	8481A	3318A92374	1/31/2024
Power Sensor	HP	8481A	1926A27049	1/31/2024
Amplifier	Miteq	AMF-4D-00400600-50-30P	1795093	N/A
Bi-directional coupler	Werlatone	C8060-102	2711	N/A
DC Power Supply	Sorensen	XT 15-4	1802A01877	N/A
MXG Analog Signal Generator	Agilent	N5181A	MY50140630	1/31/2024
Power Meter	Keysight	N1912A	MY55196004	1/31/2024
Power Sensor	Agilent	N1921A	MY53260010	1/31/2024
Power Sensor	Agilent	N1921A	MY52260009	1/31/2024
Amplifier	Miteq	AMF-4D-00400600-50-30P	1795092	N/A
Bi-directional coupler	Werlatone	C8060-102	2149	N/A
DC Power Supply	Sorensen	XT 15-4	PRE0178948	N/A
Signal Generator	R&S	SMB 100A	171706	2/29/2024
Power Meter	Keysight	N1912A	MY55196007	1/31/2024
Power Sensor	Agilent	N1921A	MY53020038	1/31/2024
Power Sensor	R&S	NRP18A	171503	2/29/2024
Bi-directional coupler	Werlatone	C8060-102	4054	N/A
Signal Generator	R&S	SMB 100A	171705	2/29/2024
Power Meter	HP	437B	3125U09248	1/31/2024
Power Sensor	HP	8481A	2237A31744	1/31/2024
Power Sensor	R&S	NRP8S	199180	2/29/2024
Bi-directional coupler	Werlatone	C8060-102	2710	N/A
Signal Generator	R&S	SMB 100A	171705	2/29/2024
Power Meter	HP	437B	3125U09248	1/31/2024
Power Sensor	R&S	NRP18A	171443	2/29/2024
Power Sensor	Agilent	8481A	2237A31744	1/26/2024
Bi-directional coupler	Werlatone	C8060-102	2710	N/A

**Lab Equipment**

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
E-Field Probe (SAR Lab A)	SPEAG	EX3DV4	3772	2/13/2024
E-Field Probe (SAR Lab B)	SPEAG	EX3DV4	3773	2/13/2024
E-Field Probe (SAR Lab D)	SPEAG	EX3DV4	7587	4/18/2024
E-Field Probe (SAR Lab E)	SPEAG	EX3DV4	7501	4/3/2024
E-Field Probe (SAR Lab E)	SPEAG	EX3DV4	3929	4/26/2024
E-Field Probe (SAR Lab F)	SPEAG	EX3DV4	7585	4/18/2024
E-Field Probe (SAR Lab H)	SPEAG	EX3DV4	3902	3/17/2024
E-Field Probe (SAR Lab I)	SPEAG	EX3DV4	7810	4/25/2024
E-Field Probe (SAR Lab 1)	SPEAG	EX3DV4	3749	1/27/2024
E-Field Probe (SAR Lab 2)	SPEAG	EX3DV4	3989	1/26/2024
E-Field Probe (SAR Lab 4)	SPEAG	EX3DV4	7569	4/18/2024
E-Field Probe (SAR Lab 5)	SPEAG	EX3DV4	3991	9/22/2023
E-Field Probe (SAR Lab 7)	SPEAG	EX3DV4	7806	4/4/2024
E-Field Probe (SAR Lab 8)	SPEAG	EX3DV4	7807	4/11/2024
E-Field Probe (SAR Lab 9)	SPEAG	EX3DV4	7589	4/18/2024
E-Field Probe (SAR Lab 10)	SPEAG	EX3DV4	7448	2/14/2024
E-Field Probe (SAR Lab 12)	SPEAG	EX3DV4	7808	4/18/2024
E-Field Probe (SAR Lab 13)	SPEAG	EX3DV4	3990	2/17/2024
E-Field Probe (SAR Lab 15)	SPEAG	EX3DV4	3885	9/20/2023
E-Field Probe (SAR Lab 16)	SPEAG	EX3DV4	7482	4/18/2024
E-Field Probe (SAR Lab 17)	SPEAG	EX3DV4	7335	1/26/2024
E-Field Probe (SAR Lab 18)	SPEAG	EX3DV4	7463	4/19/2024
E-Field Probe (SAR Lab 19)	SPEAG	EX3DV4	7356	3/17/2024

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Data Acquisition Electronics (SAR Lab A)	SPEAG	DAE4	1359	1/24/2024
Data Acquisition Electronics (SAR Lab B)	SPEAG	DAE4	1258	3/16/2024
Data Acquisition Electronics (SAR Lab D)	SPEAG	DAE4	1239	3/16/2024
Data Acquisition Electronics (SAR Lab E)	SPEAG	DAE4	1546	3/13/2024
Data Acquisition Electronics (SAR Lab E)	SPEAG	DAE4	1675	5/11/2024
Data Acquisition Electronics (SAR Lab F)	SPEAG	DAE4	1797	4/3/2024
Data Acquisition Electronics (SAR Lab F)	SPEAG	DAE4	1259	3/13/2024
Data Acquisition Electronics (SAR Lab H)	SPEAG	DAE4	1439	3/16/2024
Data Acquisition Electronics (SAR Lab I)	SPEAG	DAE4	1797	4/3/2024
Data Acquisition Electronics (SAR Lab 1)	SPEAG	DAE4	1357	1/27/2024
Data Acquisition Electronics (SAR Lab 2)	SPEAG	DAE4	1257	9/20/2023
Data Acquisition Electronics (SAR Lab 4)	SPEAG	DAE4	1547	4/18/2024
Data Acquisition Electronics (SAR Lab 5)	SPEAG	DAE4	1674	5/11/2024
Data Acquisition Electronics (SAR Lab 7)	SPEAG	DAE4	1784	4/3/2024
Data Acquisition Electronics (SAR Lab 8)	SPEAG	DAE4	1799	4/4/2024
Data Acquisition Electronics (SAR Lab 9)	SPEAG	DAE4	1544	1/24/2024
Data Acquisition Electronics (SAR Lab 10)	SPEAG	DAE4	1472	1/23/2024
Data Acquisition Electronics (SAR Lab 12)	SPEAG	DAE4	1796	4/3/2024
Data Acquisition Electronics (SAR Lab 13)	SPEAG	DAE4	1545	2/14/2024
Data Acquisition Electronics (SAR Lab 15)	SPEAG	DAE4	1548	2/14/2024
Data Acquisition Electronics (SAR Lab 16)	SPEAG	DAE4	1380	2/14/2024
Data Acquisition Electronics (SAR Lab 17)	SPEAG	DAE4	1619	4/18/2024
Data Acquisition Electronics (SAR Lab 18)	SPEAG	DAE4	1673	5/12/2024
Data Acquisition Electronics (SAR Lab 19)	SPEAG	DAE4	1798	5/2/2024
Thermometer	TRACEABLE	6530CC	170361	2/29/2024
Thermometer	TRACEABLE	6530CC	155512	2/29/2024
Thermometer	TRACEABLE	6530CC	174046	2/29/2024
Thermometer	TRACEABLE	6530CC	168571	2/29/2024
Thermometer	TRACEABLE	6530CC	155354	2/29/2024
Thermometer	TRACEABLE	6530CC	174045	2/29/2024
Thermometer	TRACEABLE	6530CC	175732	2/29/2024
Thermometer	TRACEABLE	6530CC	168576	2/29/2024
Thermometer	TRACEABLE	6530CC	168575	2/29/2024

**Lab Equipment**

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
System Validation Dipole	SPEAG	D750V3	1019	4/13/2024
System Validation Dipole	SPEAG	D750V3	1071	11/24/2023
System Validation Dipole	SPEAG	D835V2	4d002	11/24/2023
System Validation Dipole*	SPEAG	D1640V2	334	3/25/2023
System Validation Dipole	SPEAG	D1750V2	1050	4/19/2024
System Validation Dipole	SPEAG	D1750V2	1053	10/17/2023
System Validation Dipole	SPEAG	D1900V2	5d140	4/14/2024
System Validation Dipole	SPEAG	D1900V2	5d163	10/28/2023
System Validation Dipole	SPEAG	D2300V2	1002	4/11/2024
System Validation Dipole	SPEAG	D2300V2	1058	10/18/2023
System Validation Dipole	SPEAG	D2450V2	706	1/20/2024
System Validation Dipole	SPEAG	D2450V2	899	4/18/2024
System Validation Dipole	SPEAG	D2600V2	1036	4/11/2024
System Validation Dipole	SPEAG	D3500V2	1011	4/17/2024
System Validation Dipole	SPEAG	D3500V2	1060	2/7/2024
System Validation Dipole	SPEAG	D3700V2	1110	11/30/2023
System Validation Dipole	SPEAG	D3900V2	1093	9/28/2023
System Validation Dipole	SPEAG	D4900V2	1065	11/16/2023
System Validation Dipole	SPEAG	D5GHzV2	1138	2/3/2024
System Validation Dipole	SPEAG	D5GHzV2	1168	11/23/2023
System Validation Dipole	SPEAG	D5GHzV2	1003	2/22/2024
System Validation Dipole	SPEAG	CLA13	1008	1/12/2024

**Note(s):**

\*Dipole Calibration Date has been extended past 1 year. Impedance measurements have been performed to validate Dipole performance. Refer to Appendix K for Dipole Impedance measurements.

**Other**

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Power Meter	Keysight	N1911A	MY55196015	1/31/2024
Power Sensor	Agilent	N1921A	MY52270022	1/31/2024
Wideband Radio Communication Tester	R&S	CMW500	80580	2/29/2024
Wideband Radio Communication Tester	R&S	CMW500	85780	2/29/2024
Wideband Radio Communication Tester	R&S	CMW500	208643	2/29/2024
Wideband Radio Communication Tester	R&S	CMW500	208049	2/29/2024
Wideband Radio Communication Tester	R&S	CMW500	81849	2/29/2024
Wideband Radio Communication Tester	R&S	CMW500	85781	2/29/2024
Wideband Radio Communication Tester	R&S	CMW500	85719	2/29/2024
Wideband Radio Communication Tester	R&S	CMW500	208880	2/29/2024
Wideband Radio Communication Tester	R&S	CMW500	85348	2/29/2024
Wideband Radio Communication Tester	R&S	CMW500	159994	2/29/2024
Wideband Radio Communication Tester	R&S	CMW500	135602	2/29/2024
Wideband Radio Communication Tester	R&S	CMW500	209235	2/29/2024
Wideband Radio Communication Tester	R&S	CMW500	85806	2/29/2024
Wideband Radio Communication Tester	R&S	CMW500	85698	2/29/2024
Wideband Radio Communication Tester	R&S	CMW500	86119	2/29/2024

## 5. Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is  $< 1.5$  W/kg and the measured 10-g SAR within a frequency band is  $< 3.75$  W/kg. The expanded SAR measurement uncertainty must be  $\leq 30\%$ , for a confidence interval of  $k = 2$ . If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. Therefore, the measurement uncertainty is not required.



## 6. Device Under Test (DUT) Information

### 6.1. DUT Description

The Apple iPhone is a smartphone with cellular GSM, GPRS, EGPRS, UMTS, LTE, 5G, IEEE 802.11a/b/g/n/ac/ax, Bluetooth, Ultra-Wideband, GPS, NFC, 802.15.4ab-NB and MSS technologies. All models except reference model support at least one UICC based SIM. The second SIM is either an UICC based p-SIM (physical SIM) or e-SIM (electronic SIM). The device supports a built-in inductive charging transmitter and receiver. The rechargeable battery is not user accessible.

All Models have the same PCB layout, circuit design, common components, antennas, and antenna locations their respective reference model. Their cellular modem, Wi-Fi, BT, NFC, WPT, UWB, 802.15.4ab-NB, and MSS transmitters are identical.

The device utilizes two power modes: Mode A(DSI=0) and Mode B(DSI=1). Power selection is determined by the device’s positioning and use case as described in Sec. 10. Mode A power is used when the device is used against the user’s head, or away from the body. Mode B is used when the device is used in a body-worn configuration by the user.

The WWAN transmit antenna switching mechanism between WWAN antennas is implemented with a physical “break-before-make” switch so that only one antenna can be used for WWAN transmission at one time.

In Airplay mode, the device uses same power and power control mechanism as Wi-Fi. Airplay is not supported in hotspot mode. Airplay utilize the same 802.11 modes, modulation, MIMO, Channel Bandwidth, etc. as Wi-Fi does. Therefore, Airplay usage is categorized by the Wi-Fi SAR testing contained in Section 10.

BCM4387 has 3 vendors. The Wi-Fi/BT radio modules have the same mechanical outline (e.g., the same package dimension and pin-out layout), use the same on-board antenna matching circuit, have an identical antenna structure, and are built and tested to conform to the same specifications and to operate within the same tolerances. Baseline testing was performed on the three variants to determine the worst case on all conducted power and radiated emissions.

This product utilizes a time-averaged power control mechanism – Wi-Fi Time-Averaged SAR(TAS) within the Wi-Fi chipset – that ensures total power across all Wi-Fi transmitters does not exceed applicable regulatory limits. For further details, refer to the technical description document and Appendix I.

Device Dimension	Refer to Appendix A
Back Cover	The Back Cover is not removable
Battery Options	The rechargeable battery is not user accessible.
Accessory	Headset
Wireless Router (Hotspot)	Wi-Fi Hotspot mode permits the device to share its cellular data connection with other Wi-Fi-enabled devices. <input checked="" type="checkbox"/> Mobile Hotspot (Wi-Fi 2.4 GHz) <input checked="" type="checkbox"/> Mobile Hotspot Wi-Fi 5.2(UNII-1)/5.8 GHz(UNII-3)
AirPlay	AirPlay mode enabled devices transfer data directly between each other <input checked="" type="checkbox"/> AirPlay (Wi-Fi 2.4 GHz) <input checked="" type="checkbox"/> AirPlay (Wi-Fi 5 GHz)
Bluetooth Tethering (Hotspot)	BT Tethering mode permits the device to share its cellular data connection with other devices. <input checked="" type="checkbox"/> BT Tethering (Bluetooth 2.4 GHz)

## 6.2. Wireless Technologies

Wireless technologies	Frequency bands	Operating mode		Duty Cycle used for SAR testing
GSM	850 1900	Voice (GMSK) GPRS (GMSK) EDGE (8PSK)	GSM Class : B Multi-Slot Class: Class 10 - 2 Up, 4 Down	GSM Voice: 12.5% (E)GPRS: 1 Slot: 12.5% 2 Slots: 25%
Does this device support DTM (Dual Transfer Mode)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
W-CDMA (UMTS)	Band 2 Band 4 Band 5	UMTS Rel. 99 (Voice & Data) HSDPA (Rel. 5) HSUPA (Rel. 6) HSPA+ (Rel. 7) DC-HSDPA (Rel. 8)		100%
LTE <sup>4</sup>	FDD Band 2 FDD Band 4 FDD Band 5 FDD Band 7 FDD Band 12 FDD Band 13 FDD Band 14 FDD Band 17 FDD Band 25 FDD Band 26 FDD Band 29 (DL Only) FDD Band 30 TDD Band 41 <sup>2</sup> TDD Band 46 (DL Only) TDD Band 48 TDD Band 53 FDD Band 66 FDD Band 71 <b>Carrier Aggregation</b> <sup>3</sup> FDD Band 5B FDD Band 7C TDD Band 41C <sup>2</sup> TDD Band 48C	QPSK 16QAM 64AQM 256QAM Carrier Aggregation (2 Uplinks and 6 Downlinks)		100% (FDD) 63.3% (TDD) <small>Power Class 3</small> 43.3% (TDD) <small>Power Class 2</small> Refer to §6.4
5G NR (FR1)	FDD band n2 FDD band n5 FDD band n7 FDD band n12 FDD band n14 FDD band n25 FDD band n26 FDD band n29 (DL Only) FDD band n30 TDD Band n41 <sup>2</sup> TDD Band n48 TDD Band n53 FDD Band n66 FDD Band n70 FDD Band n71 TDD Band n77 <sup>2</sup>	DFT-s-OFDM: Pi/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM		100% (FDD) 100% (TDD) <small>Power Class 3</small> 50% (TDD) <small>Power Class 2</small>
Wi-Fi	2.4 GHz <sup>1</sup>	802.11b 802.11g 802.11n (HT20) 802.11ac (HT20) 802.11ax (HE20)		99.94% <small>(802.11b)</small>
	5 GHz <sup>1</sup>	802.11a 802.11n (HT20) 802.11n (HT40) 802.11ac (VHT20) 802.11ac (VHT40)		99.37% <small>(802.11a/n/ac 20MHz BW)</small> 99.48% <small>(802.11n/ac/ax 40MHz BW)</small> 98.76% <small>(802.11n/ac/ax 80MHz BW)</small>

		802.11ac (VHT80) 802.11ax (HE20) 802.11ax (HE40) 802.11ax (HE80)	
		Does this device support bands 5.60 ~ 5.65 GHz? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
		Does this device support Band gap channel(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Bluetooth	2.4 GHz <sup>1</sup>	BR, EDR, LE, and HDR	77%(GFSK)
MSS	1.6 GHz	BPSK	100%
802.15.4ab-NB	5726.25 – 5848.75 MHz	O-QPSK	10%
NFC	13.56 MHz	Type A/B/F and ISO15693	100%
UWB <sup>5</sup> (Ultra-Wideband)	6.5 GHz and 8 GHz	BPM-BPSK	100%

**Notes:**

1. Duty cycle for Wi-Fi and BT is referenced from the DTS and U-NII and BT reports.
2. This device supports Power Class 2 and Power Class 3.
3. LTE Uplink 2CA is the total combined power of the UL CA.
4. LTE Uplink Cat 18, LTE 3GPP Rel-16.
5. Exposure testing is categorically excluded.

### 6.3. General LTE SAR Test and Reporting Considerations

Item	Description						
Frequency range, Channel Bandwidth, Numbers and Frequencies	Band 2	Frequency range: 1850 - 1910 MHz (BW = 60 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	<b>18700</b> <b>/1860</b>	18675/ 1857.5	18650/ 1855	18625/ 1852.5	18615/ 1851.5	18607/ 1850.7
	Mid	<b>18900</b> <b>1880</b>	18900/ 1880	18900/ 1880	18900/ 1880	18900/ 1880	18900/ 1880
	High	<b>19100</b> <b>1900</b>	19125/ 1902.5	19150/ 1905	19175/ 1907.5	19185/ 1908.5	19193/ 1909.3
	Band 4	Frequency range: 1710 - 1755 MHz (BW = 45 MHz)					
		Channel Bandwidth					
		20 MHz <sup>1</sup>	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	20050/ 1720	20025/ 1717.5	20000/ 1715	19975/ 1712.5	19965/ 1711.5	19957/ 1710.7
	Mid	<b>20175</b> <b>1732.5</b>	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5	20175/ 1732.5
	High	20300/ 1745	20325/ 1747.5	20350/ 1750	20375/ 1752.5	20385/ 1753.5	20393/ 1754.3
	Band 5	Frequency range: 824 - 849 MHz (BW = 25 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz <sup>1</sup>	5 MHz	3 MHz	1.4 MHz
	Low			20450/ 829	20425/ 826.5	20415/ 825.5	20407/ 824.7
	Mid			<b>20525</b> <b>836.5</b>	20525/ 836.5	20525/ 836.5	20525/ 836.5
	High			20600/ 844	20625/ 846.5	20635/ 847.5	20643/ 848.3
	Band 7	Frequency range: 2500 - 2570 MHz (BW = 70 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz
	Low	<b>20850</b> <b>2510</b>	20825 2507.5	20800 2505	20775 2502.5		
	Mid	<b>21100</b> <b>2535</b>	21100 2535	21100 2535	21100 2535		
	High	<b>21350</b> <b>2560</b>	21375 2562.5	21400 2565	21425 2567.5		
	Band 12	Frequency range: 699 – 716 MHz (BW = 17 MHz)					
		Channel Bandwidth					
		20 MHz	15 MHz	10 MHz <sup>1</sup>	5 MHz	3 MHz	1.4 MHz
Low			23060/ 704	23035/ 701.5	23025/ 700.5	23017/ 699.7	
Mid			<b>23095</b> <b>707.5</b>	23095/ 707.5	23095/ 707.5	23095/ 707.5	
High			23130/ 711	23155/ 713.5	23165/ 714.5	23173/ 715.3	
Band 13	Frequency range: 777 - 787 MHz (BW = 10 MHz)						
	Channel Bandwidth						
	20 MHz	15 MHz	10 MHz <sup>1</sup>	5 MHz <sup>1</sup>	3 MHz	1.4 MHz	
Low				23205/ 779.5			
Mid			<b>23230</b> <b>782</b>	23230/ 782			
High				23255/ 784.5			
Band 14	Frequency range: 788 - 798 MHz (BW = 10 MHz)						
	Channel Bandwidth						
	20 MHz	15 MHz	10 MHz <sup>1</sup>	5 MHz <sup>1</sup>	3 MHz	1.4 MHz	
Low				23305/ 790.5			
Mid			<b>23330</b> <b>793</b>	23330/ 793			
High				23355/ 793.5			

					795.5			
Band 17	Frequency range: 704 - 716 MHz (BW = 12 MHz)							
	Channel Bandwidth							
	20 MHz	15 MHz	10 MHz <sup>1</sup>	5 MHz <sup>1</sup>	3 MHz	1.4 MHz		
Low			23780/ 709	23755/ 706.5				
Mid			<b>23790/ 710</b>	23790/ 710				
High			23800/ 711	23825/ 713.5				
Band 25	Frequency range: 1850 - 1915 MHz (BW = 65 MHz)							
	Channel Bandwidth							
	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz		
Low	<b>26140/ 1860</b>	26115/ 1857.5	26090/ 1855	26065/ 1852.5	26055/ 1851.5	26047/ 1850.7		
Mid	<b>26365/ 1882.5</b>	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5	26365/ 1882.5		
High	<b>26590/ 1905</b>	26615/ 1907.5	26640/ 1910	26665/ 1912.5	26675/ 1913.5	26683/ 1914.3		
Band 26	Frequency range: 814 - 849 MHz (BW = 35 MHz)							
	Channel Bandwidth							
	20 MHz	15 MHz <sup>1</sup>	10 MHz	5 MHz	3 MHz	1.4 MHz		
Low			26740/ 819	26715/ 816.5	26705/ 815.5	26697/ 814.7		
Mid			26865/ 831.5	26865/ 831.5	26865/ 831.5	26865/ 831.5		
High			26990/ 844	27015/ 846.5	27025/ 847.5	27033/ 848.3		
Band 30	Frequency range: 2305 - 2315 MHz (BW = 10 MHz)							
	Channel Bandwidth							
	20 MHz	15 MHz	10 MHz <sup>1</sup>	5 MHz <sup>1</sup>	3 MHz	1.4 MHz		
Low				27685/ 2307.5				
Mid			<b>27710/ 2310</b>	27710/ 2310				
High				27735/ 2312.5				
Band 41 <sup>2</sup>	Frequency range: 2496 - 2690 MHz (BW = 194 MHz)							
	Channel Bandwidth							
	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz		
	Low	<b>39750 / 2506.0</b>						
	Mid- Low	<b>40185 / 2549.5</b>						
	Mid	<b>40620 / 2593.0</b>						
Mid-High	<b>41055 / 2636.5</b>							
High	<b>41490 / 2680.0</b>							
Band 48	Frequency range: 3550 - 3700 MHz (BW = 150 MHz)							
	Channel Bandwidth							
	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz		
	Low	<b>55340/ 3560</b>	55315/ 3557.5	55290/ 3555	55265/ 3552.5			
	Mid-Low	<b>55773/ 3603.3</b>	55765/ 3602.5	55757/ 3601.7	55748/ 3600.8			
	Mid-High	<b>56207/ 3646.7</b>	56215/ 3647.5	56223/ 3648.3	56232/ 3649.2			
High	<b>56640/ 3690</b>	56665/ 3692.5	56690/ 3695	56715/ 3697.5				
Band 53	Frequency range: 2483.5 - 2495 MHz (BW = 11.5 MHz)							
	Channel Bandwidth							
	20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz		
Low					2485/ 60115	2484.2/ 60147		
Mid			60197/ 2489.5	60197/ 2489.5	60197/ 2489.5	60197/ 2489.5		
High					2493.5/ 60240	2494.3/ 60248		

	Band 66	Frequency range: 1710 - 1780 MHz (BW = 70 MHz)																																																																		
		Channel Bandwidth																																																																		
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz																																																													
	Low	<b>132072/1720</b>	132047/1717.5	132022/1715	131997/1712.5	131987/1711.5	131979/1710.7																																																													
	Mid	<b>132322/1745</b>	132322/1745	132322/1745	132322/1745	132322/1745	132322/1745																																																													
	High	<b>132572/1770</b>	132597/1772.5	132622/1775	132647/1777.5	132657/1778.5	132665/1779.3																																																													
	Band 71	Frequency range: 663 - 698 MHz (BW = 35 MHz)																																																																		
		Channel Bandwidth																																																																		
		20 MHz <sup>1</sup>	15 MHz <sup>1</sup>	10 MHz	5 MHz	3 MHz	1.4 MHz																																																													
	Low	133222/673	133197/670.5	133172/668	133147/665.5																																																															
Mid	<b>133297/680.5</b>	133297/680.5	133297/680.5	133297/680.5																																																																
High	133372/688	133397/690.5	133422/693	133447/695.5																																																																
LTE transmitter and antenna implementation	<p>LTE can transmit from either ANT1, ANT2, ANT3, ANT4, ANT7, ANT8, and ANT9                      Antenna switching is implemented using a physical, "break-before-make" switch so that only one antenna can be used for LTE transmission at a time.</p>																																																																			
Maximum power reduction (MPR)	<p><b>Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3</b></p> <table border="1"> <thead> <tr> <th rowspan="2">Modulation</th> <th colspan="6">Channel bandwidth / Transmission bandwidth (N<sub>RB</sub>)</th> <th rowspan="2">MPR (dB)</th> </tr> <tr> <th>1.4 MHz</th> <th>3.0 MHz</th> <th>5 MHz</th> <th>10 MHz</th> <th>15 MHz</th> <th>20 MHz</th> </tr> </thead> <tbody> <tr> <td>QPSK</td> <td>&gt; 5</td> <td>&gt; 4</td> <td>&gt; 8</td> <td>&gt; 12</td> <td>&gt; 16</td> <td>&gt; 18</td> <td>≤ 1</td> </tr> <tr> <td>16 QAM</td> <td>≤ 5</td> <td>≤ 4</td> <td>≤ 8</td> <td>≤ 12</td> <td>≤ 16</td> <td>≤ 18</td> <td>≤ 1</td> </tr> <tr> <td>16 QAM</td> <td>&gt; 5</td> <td>&gt; 4</td> <td>&gt; 8</td> <td>&gt; 12</td> <td>&gt; 16</td> <td>&gt; 18</td> <td>≤ 2</td> </tr> <tr> <td>64 QAM</td> <td>≤ 5</td> <td>≤ 4</td> <td>≤ 8</td> <td>≤ 12</td> <td>≤ 16</td> <td>≤ 18</td> <td>≤ 2</td> </tr> <tr> <td>64 QAM</td> <td>&gt; 5</td> <td>&gt; 4</td> <td>&gt; 8</td> <td>&gt; 12</td> <td>&gt; 16</td> <td>&gt; 18</td> <td>≤ 3</td> </tr> <tr> <td>256 QAM</td> <td colspan="6">≥ 1</td> <td>≤ 5</td> </tr> </tbody> </table> <p>MPR Built-in by design                      The manufacturer MPR values are always within the 3GPP maximum MPR allowance but may not follow the default MPR values.                      A-MPR (additional MPR) was disabled during SAR testing</p>						Modulation	Channel bandwidth / Transmission bandwidth (N <sub>RB</sub> )						MPR (dB)	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3	256 QAM	≥ 1						≤ 5
Modulation	Channel bandwidth / Transmission bandwidth (N <sub>RB</sub> )							MPR (dB)																																																												
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz																																																														
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1																																																													
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1																																																													
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2																																																													
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2																																																													
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3																																																													
256 QAM	≥ 1						≤ 5																																																													
Spectrum plots for RB configurations	<p>A properly configured base station simulator was used for the SAR and power measurements; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.</p>																																																																			

**Notes:**

- Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 SAR for LTE Devices.
- LTE band 41 test channels in accordance with October 2014 TCB workshop for all channels bandwidths.
- SAR Testing for LTE was performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

### 6.4. LTE (TDD) Considerations

According to KDB 941225 D05 SAR for LTE Devices, for Time-Division Duplex (TDD) systems, SAR must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP LTE TDD configurations.

LTE TDD Bands support 3GPP TS 36.211 section 4.2 for Type 2 Frame Structure and Table 4.2-2 for uplink-downlink configurations and Table 4.2-1 for Special subframe configurations.

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

Special subframe configuration	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$	$20480 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-		
10	$13168 \cdot T_s$	$13152 \cdot T_s$	$12800 \cdot T_s$	-	-	-

Table 4.2-2: Uplink-downlink configurations & Calculated Duty Cycle

Uplink-Downlink Configuration	Downlink-to-Uplink Switch-point Periodicity	Subframe Number										Calculated Duty Cycle (%)
		0	1	2	3	4	5	6	7	8	9	
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.3%
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.3%
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.3%
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.7%
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.7%
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.7%
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.3%

Calculated Duty Cycle = Extended cyclic prefix in uplink \* (T<sub>s</sub>) \* # of S + # of U / period

**Note(s):**

This device supports uplink-downlink configurations 0-6. The configuration with highest duty cycle was used for SAR Testing: configuration 0 at 63.3% duty cycle.

### 6.5. General 5G NR(FR1) SAR Test and Reporting Considerations

n2	SCS (kHz)	Frequency range: 1850 - 1910 MHz (BW = 60 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	15										372000 /1860	371500 /1857.5	371000 /1855	370500 /1852.5	
Mid	15										376000 /1880	376000 /1880	376000 /1880	376000 /1880	
High	15										380000 /1900	380500 /1902.5	381000 /1905	381500 /1907.5	
n5	SCS (kHz)	Frequency range: 824 - 849 MHz (BW = 25 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	15										166800 /834	166300 /831.5	165800 /829	165300 /826.5	
Mid	15										167300 /836.5	167300 /836.5	167300 /836.5	167300 /836.5	
High	15										167800 /839	168300 /841.5	168800 /844	169300 /846.5	
n7	SCS (kHz)	Frequency range: 2500 - 2570 MHz (BW = 70 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	15							504000 /2520	503000 /2515	502500 /2512.5	502000 /2510	501500 /2507.5	501000 /2505	500500 /2502.5	
Mid	15							507000 /2535	507000 /2535	507000 /2535	507000 /2535	507000 /2535	507000 /2535	507000 /2535	
High	15							510000 /2550	511000 /2555	511500 /2557.5	512000 /2560	512500 /2562.5	513000 /2565	513500 /2567.5	
n12	SCS (kHz)	Frequency range: 699 - 716 MHz (BW = 17 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	15											141300 /706.5	140800 /704	140300 /701.5	
Mid	15											141500 /707.5	141500 /707.5	141500 /707.5	
High	15											141700 /708.5	142200 /711	142700 /713.5	
n14	SCS (kHz)	Frequency range: 788 - 798 MHz (BW = 10 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	15												158600 /793	158100 /790.5	
Mid	15												158600 /793	158600 /793	
High	15												158600 /793	159100 /795.5	
n25	SCS (kHz)	Frequency range: 1850 - 1915 MHz (BW = 65 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	15							374000 /1870	373000 /1865	372500 /1862.5	372000 /1860	371500 /1857.5	371000 /1855	370500 /1852.5	
Mid	15							376500 /1882.5	376500 /1882.5	376500 /1882.5	376500 /1882.5	376500 /1882.5	376500 /1882.5	376500 /1882.5	
High	15							379000 /1895	380000 /1900	380500 /1902.5	381000 /1905	381500 /1907.5	382000 /1910	382500 /1912.5	
n26	SCS (kHz)	Frequency range: 814 - 849 MHz (BW = 35 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	15										164800 /824	164300 /821.5	163800 /819	163300 /816.5	
Mid	15										166300 /831.5	166300 /831.5	166300 /831.5	166300 /831.5	
High	15										167800 /839	168300 /841.5	168800 /844	169300 /846.5	
n30	SCS (kHz)	Frequency range: 2305 - 2315 MHz (BW = 10 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	15													461500 /2307.5	
Mid	15												462000 /2310	462000 /2310	
High	15												462500 /2312.5	462500 /2312.5	
n41	SCS (kHz)	Frequency range: 2496 - 2690 MHz (BW = 194 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	30	509196 /2545.98	508200 /2541	507198 /2535.99	506196 /2530.98	505200 /2526	504198 /2520.99	503196 /2515.98	502200 /2511					501198 /2505.99	
	30	513900 /2569.5	513396 /2566.98	512898 /2564.49	512400 /2562	511896 /2559.48	511398 /2556.99	510900 /2554.5	510396 /2551.98					509898 /2549.49	
Mid	30	518598 /2592.99	518598 /2592.99	518598 /2592.99	518598 /2592.99	518598 /2592.99	518598 /2592.99	518598 /2592.99	518598 /2592.99					518598 /2592.99	
Mid-High	30	523296 /2616.48	523800 /2619	524298 /2621.49	524796 /2623.98	525300 /2626.5	525798 /2628.99	526296 /2631.48	526800 /2634					527298 /2636.49	
High	30	527994 /2639.97	528996 /2644.98	529998 /2649.99	530994 /2654.97	531996 /2659.98	532998 /2664.99	533994 /2669.97	534996 /2674.98					535998 /2679.99	



n48	SCS (kHz)	Frequency range: 3550 - 3700 MHz (BW = 150 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	30	640000 /3600	639666 /3594.99	639332 /3589.98		638666 /3579.99	638332 /3574.98	638000 /3570	637332 /3564.99		637332 /3559.98	637166 /3557.49	637000 /3555		
Low-Mid	30	641110 /3616.65	641000 /3615	640888 /3613.32		640666 /3609.99	640554 /3608.31	640444 /3606.66	640332 /3604.98		640222 /3603.33	640166 /3602.49	640110 /3601.65		
Mid	30	642220 /3633.3	642332 /3634.98	642444 /3636.66		642666 /3639.99	642776 /3641.64	642888 /3643.32	642998 /3644.97		643110 /3646.65	643166 /3647.49	643220 /3648.3		
High	30	643332 /3649.98	643666 /3654.99	643998 /3659.97		644666 /3669.99	644998 /3674.97	645332 /3679.98	645666 /3684.99		645998 /3689.97	646166 /3692.49	646332 /3694.98		
n53	SCS (kHz)	Frequency range: 2483.5 - 2495 MHz (BW = 11.5 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	30												497700 /2488.5		
Mid	30												497860 /2489.3		
High	30												498000 /2490		
n66	SCS (kHz)	Frequency range: 1710 - 1780 MHz (BW = 70 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	15							346000 /1730	345000 /1725		344000 /1720	343500 /1717.5	343000 /1715	342500 /1712.5	
Mid	15							349000 /1745	349000 /1745		349000 /1745	349000 /1745	349000 /1745	349000 /1745	
High	15							352000 /1760	353000 /1765		354000 /1770	354500 /1772.5	355000 /1775	355500 /1777.5	
n70	SCS (kHz)	Frequency range: 1695 - 1710 MHz (BW = 15 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	15											340500 /1702.5	340000 /1700	339500 /1697.5	
Mid	15											340500 /1702.5	340500 /1702.5	340500 /1702.5	
High	15											340500 /1702.5	341000 /1705	341500 /1707.5	
n71	SCS (kHz)	Frequency range: 663 - 698 MHz (BW = 35 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	15											134600 /673	134100 /670.5	133600 /668	133100 /665.5
Mid	15											136100 /680.5	136100 /680.5	136100 /680.5	136100 /680.5
High	15											137600 /688	138100 /690.5	138600 /693	139100 /695.5
n77	SCS (kHz)	Block A Frequency range: 3450 - 3550 MHz (BW = 100 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	30	633332 /3499.98	633000 /3495	632666 /3489.99	632332 /3484.98	632000 /3480	631666 /3474.99	631332 /3469.98	631000 /3465		630666 /3459.99	630500 /3457.5	630332 /3454.98		
Mid	30	633332 /3499.98	633332 /3499.98	633332 /3499.98	633332 /3499.98	633332 /3499.98	633332 /3499.98	633332 /3499.98	633332 /3499.98		633332 /3499.98	633332 /3499.98	633332 /3499.98		
High	30	633332 /3499.98	633666 /3504.99	633998 /3509.97	634332 /3514.98	634666 /3519.99	634998 /3524.97	635332 /3529.98	635666 /3534.99		635998 /3539.97	636166 /3542.49	636332 /3544.98		
n77	SCS (kHz)	Block C Frequency range: 3700 - 3980 MHz (BW = 280 MHz)													
		Channel Bandwidth (MHz)													
		100	90	80	70	60	50	40	30	25	20	15	10	5	
Low	30	649998 /3749.97	649666 /3744.99	649332 /3739.98	648998 /3734.97	648666 /3729.99	648332 /3724.98	647998 /3719.97	647666 /3714.99		647332 /3709.98	647166 /3707.49	646998 /3704.97		
Low-Mid	30	652998 /3794.97	652832 /3792.48	652666 /3789.99	652498 /3787.47	652332 /3784.98	652166 /3782.49	651998 /3779.97	651832 /3777.48		651666 /3774.99	651582 /3773.73	651498 /3772.47		
Mid	30	656000 /3840	656000 /3840	656000 /3840	656000 /3840	656000 /3840	656000 /3840	656000 /3840	656000 /3840		656000 /3840	656000 /3840	656000 /3840		
Mid-High	30	658998 /3884.97	659166 /3887.49	659332 /3889.98	659498 /3892.47	659666 /3894.99	659832 /3897.48	659998 /3899.97	660166 /3902.49		660332 /3904.98	660416 /3906.24	660498 /3907.47		
High	30	661998 /3929.97	662332 /3934.98	662666 /3939.99	662998 /3944.97	663332 /3949.98	663666 /3954.99	663998 /3959.97	664332 /3964.98		664666 /3969.99	664832 /3972.48	664998 /3974.97		

SCS	15 kHz (n2, n5, n7, n12, n14, n25, n26, n30, n66, n70, n71) 30 kHz (n41, n48, n53, n77)
NR(FR1) transmitter and antenna implementation	Refer to section 7 and Appendix A.
A-MPR(Additional MPR) disabled for SAR testing?	Yes
EN-DC Carrier Aggregation Possible Combinations	
LTE Anchor Bands for NR band n2	LTE Band 5/12/13/14/48/66
LTE Anchor Bands for NR band n5	LTE Band 2/7/30/48/66

LTE Anchor Bands for NR band n7	LTE Band 5/12/66
LTE Anchor Bands for NR band n12	LTE Band 2/30/48/66
LTE Anchor Bands for NR band n14	LTE Band 2/30/66
LTE Anchor Bands for NR band n25	LTE Band 12/48/66
LTE Anchor Bands for NR band n26	N/A
LTE Anchor Bands for NR band n30	LTE Band 5/12/14/66
LTE Anchor Bands for NR band n41	LTE Band 2/4/5/12/25/26/41/66
LTE Anchor Bands for NR band n48	LTE Band 2/5/13/66
LTE Anchor Bands for NR band n53	LTE Band 48
LTE Anchor Bands for NR band n48	LTE Band 2/5/13/66
LTE Anchor Bands for NR band n66	LTE Band 2/5/7/12/13/14/30/48/71
LTE Anchor Bands for NR band n70	N/A
LTE Anchor Bands for NR band n71	LTE Band 2/7/48/66
LTE Anchor Bands for NR band n77	LTE Band 2/5/7/12/13/14/30/41/66/71

**Notes:**

1. Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per FCC Guidance.
2. SAR test for NR bands and LTE anchor Bands were performed separately due to limitations in SAR probe calibration factors. And, due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
3. FR1 supported standalone.

**6.6. Time-Average Feature**

The equipment under test (EUT) incorporates the Smart Transmit (SmartTX) SAR averaging algorithm provided by Qualcomm for cellular technologies. Smart Transmit controls the Tx power of the cellular-based wireless device in real-time to maintain the time-averaged Tx power, and in turn, time-averaged RF exposure, below the predefined time-average power limit characterized for each technology and band.

The purpose of the Part 2 test in this report is to demonstrate that the EUT meets the FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR\_design\_target or PD\_design\_target for each characterized technology and band.

Smart Transmit allows the device to transmit at higher power instantaneously as high as  $P_{max}$ , when needed, but enforces power limiting to maintain time-averaged transmit power to  $P_{limit}$ .

The maximum time-averaged output power (dBm) for any 2G/3G/4G/5G NR WWAN technology band, and DSI = minimum of " $P_{limit}$  EFS" and "Maximum output power  $P_{max}$ " includes device uncertainty.

SAR values in this report were scaled to the maximum time-averaged output power to determine compliance following KDB 447498 D01.

**SAR Characterization**

Please refer to 14523758-S4 for the full details regarding SAR Characterizations.

## 7. RF Exposure Conditions (Test Configurations)

Refer to Appendix A for the specific details of the antenna-to-antenna and antenna-to-edge(s) distances.

Antenna	Band	Back	Front	Edge Top	Edge Right	Edge Bottom	Edge Left
ANT1	GSM 850/1900 WCDMA B2/4/5 LTE B2/4/5/7/12/13/14/17/25/26/30/41/53/66/71 5G(FR1) n2/n5/n7/n12/n14/n25/n26/n30/n41/n53/n66/n70/n71 MSS (L-Band)	Yes	Yes	No	Yes	Yes	Yes
ANT2	GSM 850/1900 WCDMA B2/4/5 LTE B2/4/5/7/12/13/14/17/25/26/30/41/53/66/71 5G(FR1) n2/n5/n7/n12/n14/n25/n26/n30/n41/n53/n66/n70/n71 NFC Primary	Yes	Yes	Yes	Yes	No	Yes
ANT3	GSM 1900 WCDMA B2/4 LTE B2/4/5/7/12/13/14/17/25/26/30/41/66/71 5G(FR1) n2/n5/n7/n12/n14/n25/n26/n30/n41/n66/n70/n71 Wi-Fi 2.4GHz Bluetooth 2.4GHz	Yes	Yes	No	No	Yes	Yes
ANT4	GSM 1900 WCDMA B2/4 LTE B2/4/7/25/30/41/48/66 5G(FR1) n2/n7/n25/n30/n41/n48/n66/n70/n77 MSS (L-Band) Wi-Fi 2.4GHz Bluetooth 2.4GHz	Yes	Yes	Yes	Yes	No	No
ANT5	Wi-Fi 5GHz 802.15.4ab-NB	Yes	Yes	No	No	Yes	Yes
ANT6	Wi-Fi 5GHz 802.15.4ab-NB	Yes	Yes	Yes	No	No	Yes
ANT7	LTE B48 5G(FR1) n48/n77	Yes	Yes	No	Yes	Yes	No
ANT8	LTE B48 5G(FR1) n48/n77	Yes	Yes	Yes	No	No	Yes
ANT9	LTE B48 5G(FR1) n48/n77	Yes	Yes	No	No	Yes	Yes
NFC	NFC Secondary	Yes	Yes	No	Yes	No	Yes

**Notes:**

- SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hot Spot SAR.
- The Body-worn minimum separation distance is 5 mm. To cover both body-worn and hotspot RF exposure conditions testing was performed at a separation distance of 5 mm.

## 8. Dielectric Property Measurements & System Check

### 8.1. Dielectric Property Measurements

The temperature of the tissue-equivalent medium used during measurement must also be within 18°C to 25°C and within  $\pm 2^\circ\text{C}$  of the temperature when the tissue parameters are characterized.

The dielectric parameters must be measured before the tissue-equivalent medium is used in a series of SAR measurements. The parameters should be re-measured after each 3 – 4 days of use; or earlier if the dielectric parameters can become out of tolerance; for example, when the parameters are marginal at the beginning of the measurement series.

Tissue dielectric parameters were measured at the low, middle and high frequency of each operating frequency range of the test device.

The dielectric constant ( $\epsilon_r$ ) and conductivity ( $\sigma$ ) of typical tissue-equivalent media recipes are expected to be within  $\pm 5\%$  of the required target values; but for SAR measurement systems that have implemented the SAR error compensation algorithms documented in IEEE Std 1528-2013, to automatically compensate the measured SAR results for deviations between the measured and required tissue dielectric parameters, the tolerance for  $\epsilon_r$  and  $\sigma$  may be relaxed to  $\pm 10\%$ . This is limited to frequencies  $\leq 3$  GHz.

#### Tissue Dielectric Parameters

FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

Target Frequency (MHz)	Head		Body	
	$\epsilon_r$	$\sigma$ (S/m)	$\epsilon_r$	$\sigma$ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800 – 2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5000	36.2	4.45	49.3	5.07
5100	36.1	4.55	49.1	5.18
5200	36.0	4.66	49.0	5.30
5300	35.9	4.76	48.9	5.42
5400	35.8	4.86	48.7	5.53
5500	35.6	4.96	48.6	5.65
5600	35.5	5.07	48.5	5.77
5700	35.4	5.17	48.3	5.88
5800	35.3	5.27	48.2	6.00

**Dielectric Property Measurements**

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity ( $\epsilon_r$ )			Conductivity ( $\sigma$ )		
					Measured	Target	Delta	Measured	Target	Delta
A	5/19/2023	5750	Head	5750	34.37	35.4	-2.81%	5.17	5.21	-0.93%
				5700	34.35	35.4	-3.02%	5.12	5.16	-0.81%
				5850	34.15	35.3	-3.26%	5.39	5.32	1.30%
A	5/21/2023	2450	Head	2450	40.14	39.2	2.40%	1.84	1.80	1.94%
				2400	40.20	39.3	2.30%	1.80	1.75	2.65%
				2500	40.05	39.1	2.33%	1.88	1.85	1.24%
A	5/25/2023	2450	Head	2450	38.72	39.2	-1.22%	1.86	1.80	3.22%
				2400	38.82	39.3	-1.21%	1.82	1.75	4.02%
				2500	38.60	39.1	-1.37%	1.90	1.85	2.37%
A	5/28/2023	2450	Head	2450	39.99	39.2	2.02%	1.82	1.80	1.11%
				2400	40.03	39.3	1.87%	1.78	1.75	1.62%
				2500	39.89	39.1	1.92%	1.86	1.85	0.32%
A	6/1/2023	2450	Head	2450	40.58	39.2	3.52%	1.88	1.80	4.22%
				2400	40.64	39.3	3.42%	1.83	1.75	4.70%
				2500	40.47	39.1	3.41%	1.92	1.85	3.61%
A	6/4/2023	2450	Head	2450	39.93	39.2	1.86%	1.87	1.80	3.67%
				2400	40.01	39.3	1.82%	1.83	1.75	4.24%
				2500	39.88	39.1	1.90%	1.90	1.85	2.69%
B	5/21/2023	5250	Head	5250	35.06	35.9	-2.43%	4.58	4.70	-2.55%
				5150	35.13	36.0	-2.54%	4.45	4.60	-3.34%
				5350	34.74	35.8	-3.01%	4.63	4.80	-3.67%
B	5/24/2023	5250	Head	5250	36.06	35.9	0.35%	4.56	4.70	-3.02%
				5150	36.16	36.0	0.31%	4.46	4.60	-3.00%
				5350	35.66	35.8	-0.44%	4.63	4.80	-3.63%
B	5/28/2023	5250	Head	5250	35.31	35.9	-1.73%	4.58	4.70	-2.68%
				5150	35.36	36.0	-1.91%	4.45	4.60	-3.28%
				5350	34.91	35.8	-2.54%	4.62	4.80	-3.90%
B	6/4/2023	5250	Head	5250	37.61	35.9	4.67%	4.83	4.70	2.70%
				5150	37.82	36.0	4.92%	4.71	4.60	2.35%
				5350	37.42	35.8	4.47%	4.95	4.80	3.05%
B	6/22/2023	5250	Head	5250	34.61	35.9	-3.68%	4.78	4.70	1.57%
				5150	34.82	36.0	-3.40%	4.67	4.60	1.55%
				5350	34.40	35.8	-3.96%	4.88	4.80	1.55%
B	6/25/2023	5250	Head	5250	35.28	35.9	-1.82%	4.66	4.70	-1.00%
				5150	35.26	36.0	-2.18%	4.49	4.60	-2.45%
				5350	35.11	35.8	-1.98%	4.79	4.80	-0.28%

**Dielectric Property Measurements (continued):**

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity ( $\epsilon_r$ )			Conductivity ( $\sigma$ )		
					Measured	Target	Delta	Measured	Target	Delta
D	5/18/2023	2450	Head	2450	41.11	39.2	4.87%	1.74	1.80	-3.56%
				2400	41.17	39.3	4.77%	1.70	1.75	-3.18%
				2500	41.06	39.1	4.91%	1.77	1.85	-4.32%
D	5/21/2023	2450	Head	2450	40.82	39.2	4.13%	1.73	1.80	-3.89%
				2400	40.88	39.3	4.03%	1.70	1.75	-3.23%
				2500	40.75	39.1	4.12%	1.77	1.85	-4.59%
D	5/28/2023	2450	Head	2450	40.61	39.2	3.60%	1.74	1.80	-3.44%
				2400	40.67	39.3	3.49%	1.70	1.75	-2.72%
				2500	40.53	39.1	3.56%	1.78	1.85	-4.16%
D	6/1/2023	2450	Head	2450	39.56	39.2	0.92%	1.74	1.80	-3.44%
				2400	39.62	39.3	0.82%	1.70	1.75	-2.83%
				2500	39.47	39.1	0.85%	1.78	1.85	-3.94%
D	6/4/2023	2450	Head	2450	39.51	39.2	0.79%	1.73	1.80	-3.94%
				2400	39.58	39.3	0.72%	1.69	1.75	-3.41%
				2500	39.45	39.1	0.80%	1.77	1.85	-4.80%
D	6/22/2023	2450	Head	2450	40.23	39.2	2.63%	1.73	1.80	-3.94%
				2400	40.24	39.3	2.40%	1.69	1.75	-3.41%
				2500	40.14	39.1	2.56%	1.76	1.85	-4.91%
E	5/26/2023	5250	Head	5250	36.25	35.9	0.88%	4.55	4.70	-3.28%
				5150	36.29	36.0	0.67%	4.38	4.60	-4.76%
				5350	35.99	35.8	0.48%	4.58	4.80	-4.67%
E	6/4/2023	5250	Head	5250	35.04	35.9	-2.49%	4.48	4.70	-4.83%
				5150	35.06	36.0	-2.74%	4.38	4.60	-4.71%
				5350	34.85	35.8	-2.71%	4.58	4.80	-4.76%
E	6/22/2023	5250	Head	5250	36.29	35.9	0.99%	4.48	4.70	-4.70%
				5150	36.28	36.0	0.65%	4.43	4.60	-3.67%
				5350	36.06	35.8	0.67%	4.62	4.80	-3.76%
F	5/21/2023	5600	Head	5600	36.90	35.5	3.84%	5.01	5.06	-0.93%
				5500	37.05	35.6	3.93%	4.88	4.96	-1.57%
				5725	36.74	35.4	3.81%	5.15	5.19	-0.68%
F	5/24/2023	5600	Head	5600	35.77	35.5	0.66%	4.87	5.06	-3.84%
				5500	35.88	35.6	0.65%	4.73	4.96	-4.58%
				5725	35.53	35.4	0.39%	4.96	5.19	-4.49%
F	5/28/2023	5600	Head	5600	34.53	35.5	-2.83%	4.85	5.06	-4.23%
				5500	34.48	35.6	-3.28%	4.74	4.96	-4.42%
				5725	34.21	35.4	-3.34%	4.94	5.19	-4.86%
F	6/4/2023	5600	Head	5600	35.68	35.5	0.41%	4.86	5.06	-4.02%
				5500	35.73	35.6	0.23%	4.79	4.96	-3.49%
				5725	35.43	35.4	0.11%	4.94	5.19	-4.82%
F	6/15/2023	5600	Head	5600	35.68	35.5	0.41%	4.95	5.06	-2.26%
				5500	35.78	35.6	0.37%	4.88	4.96	-1.53%
				5725	35.45	35.4	0.17%	5.02	5.19	-3.28%
F	6/21/2023	5600	Head	5600	34.29	35.5	-3.50%	4.87	5.06	-3.70%
				5500	34.25	35.6	-3.92%	4.80	4.96	-3.19%
				5725	33.96	35.4	-4.04%	4.94	5.19	-4.82%
F	6/25/2023	5600	Head	5600	35.57	35.5	0.10%	4.85	5.06	-4.17%
				5500	35.67	35.6	0.06%	4.77	4.96	-3.83%
				5725	35.36	35.4	-0.09%	4.94	5.19	-4.71%

**Dielectric Property Measurements (continued):**

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity ( $\epsilon_r$ )			Conductivity ( $\sigma$ )		
					Measured	Target	Delta	Measured	Target	Delta
H	5/25/2023	5750	Head	5750	36.28	35.4	2.59%	5.03	5.21	-3.56%
				5700	36.40	35.4	2.77%	4.94	5.16	-4.35%
				5850	36.07	35.3	2.18%	5.18	5.32	-2.56%
H	5/28/2023	5750	Head	5750	34.99	35.4	-1.05%	4.99	5.21	-4.29%
				5700	35.01	35.4	-1.16%	4.93	5.16	-4.50%
				5850	34.86	35.3	-1.25%	5.17	5.32	-2.82%
H	6/1/2023	5750	Head	5750	35.59	35.4	0.64%	5.15	5.21	-1.26%
				5700	35.71	35.4	0.82%	5.10	5.16	-1.27%
				5850	35.38	35.3	0.23%	5.39	5.32	1.37%
H	6/4/2023	5750	Head	5750	35.25	35.4	-0.32%	5.24	5.21	0.45%
				5700	35.33	35.4	-0.25%	5.18	5.16	0.24%
				5850	35.07	35.3	-0.65%	5.36	5.32	0.66%
I	5/18/2023	2450	Head	2450	39.49	39.2	0.74%	1.77	1.80	-1.72%
				2400	39.54	39.3	0.62%	1.73	1.75	-1.06%
				2500	39.40	39.1	0.67%	1.81	1.85	-2.43%
I	5/21/2023	5750	Head	5750	34.29	35.4	-3.03%	5.00	5.21	-4.14%
				5700	34.31	35.4	-3.13%	4.92	5.16	-4.66%
				5850	33.90	35.3	-3.97%	5.19	5.32	-2.39%
I	5/27/2023	5750	Head	5750	34.53	35.4	-2.35%	5.10	5.21	-2.20%
				5700	34.54	35.4	-2.48%	5.04	5.16	-2.47%
				5850	34.29	35.3	-2.86%	5.27	5.32	-1.03%
I	6/1/2023	5750	Head	5750	34.02	35.4	-3.80%	5.10	5.21	-2.10%
				5700	34.18	35.4	-3.50%	5.05	5.16	-2.20%
				5850	33.88	35.3	-4.02%	5.26	5.32	-1.05%
1	5/17/2023	835	Head	835	42.48	41.5	2.36%	0.87	0.90	-3.76%
				805	42.58	41.7	2.16%	0.85	0.90	-4.92%
				850	42.44	41.5	2.27%	0.87	0.92	-4.74%
1	5/21/2023	835	Head	835	41.86	41.5	0.87%	0.90	0.90	-0.16%
				805	41.95	41.7	0.65%	0.89	0.90	-1.35%
				850	41.81	41.5	0.75%	0.90	0.92	-1.18%
1	5/24/2023	835	Head	835	43.04	41.5	3.71%	0.87	0.90	-3.58%
				805	43.13	41.7	3.48%	0.86	0.90	-4.60%
				850	42.99	41.5	3.59%	0.87	0.92	-4.62%
1	5/27/2023	2600	Head	2600	39.03	37.4	4.41%	1.89	1.96	-3.88%
				2495	39.21	39.1	0.17%	1.79	1.75	2.69%
				2690	38.86	38.9	-0.10%	1.96	2.06	-4.88%
1	5/29/2023	2600	Head	2600	37.71	39.0	-3.33%	1.96	1.96	-0.21%
				2495	37.90	39.1	-3.18%	1.87	1.85	1.05%
				2690	37.56	38.9	-3.44%	2.04	2.06	-1.19%
1	5/31/2023	835	Head	835	43.43	41.5	4.65%	0.87	0.90	-3.26%
				805	43.52	41.7	4.42%	0.86	0.90	-4.25%
				850	43.40	41.5	4.58%	0.87	0.92	-4.38%
1	5/31/2023	2600	Head	2600	38.93	39.0	-0.21%	1.88	1.96	-4.14%
				2495	39.10	39.1	-0.11%	1.78	1.85	-3.61%
				2690	38.76	38.9	-0.35%	1.96	2.06	-4.73%
1	6/4/2023	835	Head	835	40.06	41.5	-3.47%	0.87	0.90	-3.73%
				805	40.14	41.7	-3.69%	0.85	0.90	-4.73%
				850	40.03	41.5	-3.54%	0.87	0.92	-4.79%

**Dielectric Property Measurements (continued):**

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity ( $\epsilon_r$ )			Conductivity ( $\sigma$ )		
					Measured	Target	Delta	Measured	Target	Delta
2	5/17/2023	1750	Head	1750	41.84	40.1	4.38%	1.33	1.37	-3.07%
				1695	41.89	40.2	4.28%	1.30	1.34	-2.69%
				1755	41.84	40.1	4.40%	1.33	1.37	-3.12%
2	5/21/2023	1750	Head	1750	38.65	40.1	-3.58%	1.36	1.37	-0.80%
				1695	38.70	40.2	-3.66%	1.32	1.34	-1.34%
				1755	38.64	40.1	-3.59%	1.36	1.37	-0.79%
2	5/24/2023	1750	Head	1750	40.31	40.1	0.56%	1.31	1.37	-4.60%
				1695	40.41	40.2	0.60%	1.28	1.34	-4.56%
				1755	40.31	40.1	0.58%	1.31	1.37	-4.58%
2	5/25/2023	13	Head	13	54.72	55.0	-0.51%	0.72	0.75	-4.35%
				12	57.14	55.0	3.89%	0.72	0.75	-4.25%
				14	53.23	55.0	-3.22%	0.72	0.75	-4.16%
2	5/26/2023	1640	Head	1640	42.03	40.3	4.41%	1.25	1.31	-4.20%
				1625	42.07	40.3	4.45%	1.24	1.30	-4.35%
				1665	42.00	40.2	4.44%	1.27	1.32	-4.09%
2	5/31/2023	3700	Head	3700	39.07	37.7	3.63%	3.00	3.12	-3.76%
				3600	39.25	37.8	3.79%	2.90	3.01	-3.88%
				3800	38.89	37.6	3.47%	3.11	3.22	-3.50%
2	5/31/2023	3500	Head	3500	39.41	37.9	3.90%	2.80	2.91	-3.90%
				3400	39.57	38.0	4.01%	2.70	2.81	-3.82%
				3600	39.25	37.8	3.79%	2.90	3.01	-3.88%
2	6/4/2023	3500	Head	3500	37.06	37.9	-2.29%	2.81	2.91	-3.56%
				3400	37.26	38.0	-2.06%	2.71	2.81	-3.39%
				3600	36.86	37.8	-2.53%	2.90	3.01	-3.65%
2	6/25/2023	1640	Head	1640	41.30	40.3	2.59%	1.25	1.31	-4.36%
				1625	41.31	40.3	2.56%	1.25	1.30	-3.73%
				1665	41.25	40.2	2.58%	1.26	1.32	-4.62%
4	5/21/2023	1750	Head	1750	40.45	40.1	0.91%	1.38	1.37	0.88%
				1695	40.50	40.2	0.82%	1.34	1.34	0.38%
				1755	40.44	40.1	0.91%	1.39	1.37	0.96%
4	5/25/2023	1750	Head	1750	39.16	40.1	-2.31%	1.32	1.37	-3.29%
				1695	39.26	40.2	-2.26%	1.29	1.34	-3.58%
				1755	39.16	40.1	-2.29%	1.33	1.37	-3.19%
4	5/28/2023	1750	Head	1750	39.90	40.1	-0.46%	1.33	1.37	-2.99%
				1695	39.98	40.2	-0.47%	1.29	1.34	-3.66%
				1755	39.90	40.1	-0.44%	1.33	1.37	-2.97%
5	5/25/2023	1900	Head	1900	38.75	40.0	-3.13%	1.43	1.40	2.14%
				1850	38.86	40.0	-2.85%	1.40	1.40	-0.07%
				1920	38.72	40.0	-3.20%	1.44	1.40	3.07%
5	5/28/2023	1900	Head	1900	39.61	40.0	-0.98%	1.39	1.40	-0.71%
				1850	39.71	40.0	-0.72%	1.36	1.40	-2.79%
				1920	39.57	40.0	-1.08%	1.40	1.40	0.07%
5	6/4/2023	1900	Head	1900	39.02	40.0	-2.45%	1.38	1.40	-1.21%
				1850	39.17	40.0	-2.08%	1.35	1.40	-3.64%
				1920	38.98	40.0	-2.55%	1.40	1.40	-0.21%



**Dielectric Property Measurements (continued):**

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity ( $\epsilon_r$ )			Conductivity ( $\sigma$ )		
					Measured	Target	Delta	Measured	Target	Delta
7	5/17/2023	835	Head	835	42.20	41.5	1.69%	0.90	0.90	0.50%
				805	42.29	41.7	1.46%	0.89	0.90	-0.58%
				850	42.15	41.5	1.57%	0.91	0.92	-0.59%
7	5/21/2023	835	Head	835	40.77	41.5	-1.76%	0.93	0.90	3.33%
				805	40.85	41.7	-1.99%	0.92	0.90	2.53%
				850	40.72	41.5	-1.88%	0.93	0.92	1.64%
7	5/25/2023	835	Head	835	40.78	41.5	-1.73%	0.88	0.90	-1.96%
				805	40.86	41.7	-1.97%	0.87	0.90	-2.99%
				850	40.74	41.5	-1.83%	0.89	0.92	-3.02%
7	5/26/2023	2600	Head	2600	37.18	39.0	-4.69%	1.89	1.96	-3.78%
				2495	37.32	39.1	-4.66%	1.80	1.85	-2.47%
				2690	37.04	38.9	-4.77%	1.96	2.06	-4.73%
7	5/28/2023	835	Head	835	41.25	41.5	-0.60%	0.94	0.90	4.78%
				805	41.28	41.7	-0.96%	0.93	0.90	4.09%
				850	41.20	41.5	-0.72%	0.95	0.92	3.42%
7	5/31/2023	2600	Head	2600	37.95	39.0	-2.72%	1.94	1.96	-1.13%
				2495	38.12	39.1	-2.61%	1.84	1.85	-0.25%
				2690	37.78	38.9	-2.87%	2.02	2.06	-2.06%
8	5/17/2023	1900	Head	1900	38.14	40.0	-4.65%	1.45	1.40	3.71%
				1850	38.20	40.0	-4.50%	1.43	1.40	2.00%
				1920	38.12	40.0	-4.70%	1.46	1.40	4.57%
8	5/21/2023	1900	Head	1900	38.52	40.0	-3.70%	1.45	1.40	3.57%
				1850	38.61	40.0	-3.48%	1.42	1.40	1.57%
				1920	38.48	40.0	-3.80%	1.47	1.40	4.67%
8	5/25/2023	1900	Head	1900	39.29	40.0	-1.78%	1.45	1.40	3.29%
				1850	39.42	40.0	-1.45%	1.42	1.40	1.07%
				1920	39.25	40.0	-1.88%	1.46	1.40	4.21%
8	5/28/2023	1900	Head	1900	39.19	40.0	-2.03%	1.41	1.40	0.79%
				1850	39.26	40.0	-1.85%	1.37	1.40	-1.93%
				1920	39.19	40.0	-2.03%	1.42	1.40	1.14%
9	5/18/2023	750	Head	750	41.31	42.0	-1.55%	0.88	0.89	-1.54%
				660	41.58	42.4	-1.99%	0.85	0.89	-4.42%
				800	41.11	41.7	-1.43%	0.90	0.90	-0.04%
9	5/21/2023	750	Head	750	41.45	42.0	-1.22%	0.90	0.89	0.97%
				660	41.76	42.4	-1.56%	0.87	0.89	-1.59%
				800	41.28	41.7	-1.02%	0.92	0.90	2.43%
9	5/25/2023	750	Head	750	40.62	42.0	-3.20%	0.84	0.89	-5.58%
				660	40.79	42.4	-3.85%	0.81	0.89	-8.15%
				800	40.42	41.7	-3.08%	0.86	0.90	-4.06%
9	5/26/2023	750	Head	750	43.93	42.0	4.69%	0.84	0.89	-5.70%
				660	44.24	42.4	4.28%	0.81	0.89	-8.29%
				800	43.76	41.7	4.93%	0.86	0.90	-4.04%
9	5/27/2023	750	Head	750	44.25	42.0	5.45%	0.86	0.89	-3.59%
				660	44.56	42.4	5.04%	0.83	0.89	-6.25%
				800	44.13	41.7	5.81%	0.88	0.90	-2.44%
9	5/28/2023	750	Head	750	41.63	42.0	-0.79%	0.93	0.89	3.62%
				660	41.91	42.4	-1.21%	0.90	0.89	1.40%
				800	41.41	41.7	-0.71%	0.94	0.90	4.94%

**Dielectric Property Measurements (continued):**

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity ( $\epsilon_r$ )			Conductivity ( $\sigma$ )		
					Measured	Target	Delta	Measured	Target	Delta
10	5/17/2023	750	Head	750	41.48	42.0	-1.15%	0.89	0.89	-0.59%
				660	41.78	42.4	-1.52%	0.86	0.89	-3.43%
				800	41.34	41.7	-0.88%	0.91	0.90	1.08%
10	5/21/2023	750	Head	750	40.11	42.0	-4.41%	0.89	0.89	-0.84%
				660	40.46	42.4	-4.63%	0.85	0.89	-3.99%
				800	39.91	41.7	-4.30%	0.90	0.90	0.71%
12	5/17/2023	2600	Head	2600	37.59	39.0	-3.64%	1.93	1.96	-1.49%
				2495	37.79	39.1	-3.46%	1.84	1.85	-0.36%
				2690	37.44	38.9	-3.75%	2.01	2.06	-2.50%
12	5/21/2023	2600	Head	2600	37.23	39.0	-4.56%	1.91	1.96	-2.45%
				2495	37.41	39.1	-4.43%	1.82	1.85	-1.33%
				2690	37.06	38.9	-4.72%	1.99	2.06	-3.57%
12	5/24/2023	2600	Head	2600	37.80	39.0	-3.10%	1.90	1.96	-3.07%
				2495	38.02	39.1	-2.87%	1.82	1.85	-1.82%
				2690	37.67	38.9	-3.16%	1.97	2.06	-4.30%
12	5/28/2023	2600	Head	2600	40.35	39.0	3.43%	1.90	1.96	-3.27%
				2495	40.51	39.1	3.49%	1.81	1.85	-2.31%
				2690	40.20	38.9	3.35%	1.97	2.06	-4.15%
12	5/31/2023	2600	Head	2600	38.44	39.0	-1.46%	1.98	1.96	1.01%
				2495	38.61	39.1	-1.36%	1.88	1.85	1.91%
				2690	38.26	38.9	-1.64%	2.06	2.06	0.07%
12	6/4/2023	2600	Head	2600	38.54	39.0	-1.21%	1.92	1.96	-2.40%
				2495	38.72	39.1	-1.08%	1.83	1.85	-1.17%
				2690	38.37	38.9	-1.36%	1.99	2.06	-3.28%
12	6/7/2023	2600	Head	2600	39.82	39.0	2.07%	1.89	1.96	-3.73%
				2495	39.98	39.1	2.14%	1.80	1.85	-2.63%
				2690	39.66	38.9	1.96%	1.96	2.06	-4.68%
12	6/11/2023	2600	Head	2600	37.59	39.0	-3.64%	1.93	1.96	-1.89%
				2495	37.79	39.1	-3.46%	1.84	1.85	-0.63%
				2690	37.43	38.9	-3.77%	2.00	2.06	-2.84%
12	6/25/2023	2600	Head	2600	40.70	39.0	4.33%	1.97	1.96	0.40%
				2495	40.86	39.1	4.39%	1.88	1.85	1.70%
				2690	40.54	38.9	4.22%	2.05	2.06	-0.46%

**Dielectric Property Measurements (continued):**

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity ( $\epsilon_r$ )			Conductivity ( $\sigma$ )		
					Measured	Target	Delta	Measured	Target	Delta
13	5/18/2023	3500	Head	3500	38.75	37.9	2.16%	2.77	2.91	-4.76%
				3400	38.92	38.0	2.30%	2.68	2.81	-4.60%
				3600	38.58	37.8	2.02%	2.87	3.01	-4.84%
13	5/21/2023	3500	Head	3500	39.19	37.9	3.32%	2.79	2.91	-4.11%
				3400	39.36	38.0	3.46%	2.70	2.81	-3.82%
				3600	39.01	37.8	3.16%	2.89	3.01	-4.28%
13	5/24/2023	3700	Head	3700	38.60	37.7	2.38%	3.08	3.12	-1.03%
				3600	38.80	37.8	2.60%	2.99	3.01	-0.89%
				3800	38.41	37.6	2.19%	3.19	3.22	-1.01%
13	5/30/2023	3500	Head	3500	38.47	37.9	1.42%	2.83	2.91	-2.77%
				3400	38.65	38.0	1.59%	2.74	2.81	-2.57%
				3600	38.30	37.8	1.28%	2.93	3.01	-2.85%
13	5/30/2023	3700	Head	3700	38.13	37.7	1.14%	3.03	3.12	-2.83%
				3600	38.30	37.8	1.28%	2.93	3.01	-2.85%
				3800	37.94	37.6	0.94%	3.13	3.22	-2.63%
13	6/4/2023	3500	Head	3500	39.70	37.9	4.67%	2.78	2.91	-4.62%
				3400	39.87	38.0	4.80%	2.69	2.81	-4.25%
				3600	39.54	37.8	4.56%	2.87	3.01	-4.84%
13	6/4/2023	3700	Head	3700	39.37	37.7	4.43%	2.96	3.12	-4.95%
				3600	39.54	37.8	4.56%	2.87	3.01	-4.84%
				3800	39.20	37.6	4.29%	3.06	3.22	-4.89%
13	6/8/2023	3500	Head	3500	38.38	37.9	1.19%	2.77	2.91	-4.83%
				3400	38.56	38.0	1.36%	2.68	2.81	-4.46%
				3600	38.21	37.8	1.04%	2.86	3.01	-4.97%
13	6/8/2023	3700	Head	3700	38.13	37.7	1.14%	2.96	3.12	-4.98%
				3600	38.30	37.8	1.28%	2.87	3.01	-4.91%
				3800	37.94	37.6	0.94%	3.06	3.22	-4.96%
13	6/11/2023	3500	Head	3500	38.60	37.9	1.77%	2.78	2.91	-4.49%
				3400	38.79	38.0	1.96%	2.69	2.81	-4.17%
				3600	38.43	37.8	1.62%	2.88	3.01	-4.58%
13	6/11/2023	3700	Head	3700	38.26	37.7	1.48%	2.98	3.12	-4.53%
				3600	38.43	37.8	1.62%	2.88	3.01	-4.58%
				3800	38.08	37.6	1.31%	3.08	3.22	-4.43%
13	6/15/2023	3500	Head	3500	39.63	37.9	4.48%	2.86	2.91	-1.87%
				3400	39.82	38.0	4.67%	2.76	2.81	-1.79%
				3600	39.44	37.8	4.30%	2.96	3.01	-1.76%
13	6/15/2023	3700	Head	3700	39.24	37.7	4.08%	3.07	3.12	-1.58%
				3600	39.44	37.8	4.30%	2.96	3.01	-1.76%
				3800	39.05	37.6	3.89%	3.17	3.22	-1.38%
13	6/21/2022	3500	Head	3150	38.38	38.3	0.14%	2.53	2.55	-0.73%
				3500	37.75	37.9	-0.47%	2.85	2.91	-2.16%
				3850	37.19	37.5	-0.91%	3.17	3.27	-3.08%

**Dielectric Property Measurements (continued):**

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity ( $\epsilon_r$ )			Conductivity ( $\sigma$ )		
					Measured	Target	Delta	Measured	Target	Delta
15	5/21/2023	2600	Head	2600	37.57	39.0	-3.69%	1.90	1.96	-2.96%
				2495	37.70	39.1	-3.69%	1.82	1.85	-1.55%
				2690	37.39	38.9	-3.88%	1.97	2.06	-4.15%
15	5/24/2023	2600	Head	2600	37.58	39.0	-3.67%	1.95	1.96	-0.77%
				2495	37.79	39.1	-3.46%	1.86	1.85	0.56%
				2690	37.43	38.9	-3.77%	2.02	2.06	-2.01%
15	5/28/2023	2600	Head	2600	38.47	39.0	-1.39%	1.93	1.96	-1.89%
				2495	38.62	39.1	-1.34%	1.83	1.85	-0.79%
				2690	38.32	38.9	-1.48%	2.00	2.06	-2.94%
15	5/31/2023	2600	Head	2600	37.83	39.0	-3.03%	2.00	1.96	1.83%
				2495	37.98	39.1	-2.97%	1.90	1.85	2.89%
				2690	37.64	38.9	-3.23%	2.08	2.06	0.80%
15	6/4/2023	2600	Head	2600	38.40	39.0	-1.57%	1.98	1.96	0.86%
				2495	38.56	39.1	-1.49%	1.89	1.85	2.29%
				2690	38.22	38.9	-1.74%	2.06	2.06	-0.17%
15	6/7/2023	2600	Head	2600	37.86	39.0	-2.95%	2.01	1.96	2.44%
				2495	38.08	39.1	-2.72%	1.92	1.85	4.08%
				2690	37.69	38.9	-3.10%	2.08	2.06	1.09%
15	6/11/2023	2600	Head	2600	37.17	39.0	-4.72%	1.99	1.96	1.32%
				2495	37.37	39.1	-4.53%	1.90	1.85	2.72%
				2690	37.00	38.9	-4.88%	2.07	2.06	0.27%
16	5/18/2023	2300	Head	2300	37.77	39.5	-4.31%	1.69	1.66	1.46%
				2350	37.66	39.4	-4.38%	1.73	1.71	1.36%
				2400	37.56	39.3	-4.42%	1.77	1.75	0.88%
16	5/21/2023	2300	Head	2300	38.16	39.5	-3.33%	1.61	1.66	-2.99%
				2350	38.08	39.4	-3.31%	1.65	1.71	-3.38%
				2400	38.00	39.3	-3.30%	1.68	1.75	-3.98%
16	5/24/2023	2300	Head	2300	39.55	39.5	0.20%	1.65	1.66	-0.71%
				2350	39.48	39.4	0.24%	1.69	1.71	-0.86%
				2400	39.41	39.3	0.29%	1.73	1.75	-1.29%
16	5/28/2023	2300	Head	2300	40.73	39.5	3.19%	1.67	1.66	0.56%
				2350	40.66	39.4	3.24%	1.72	1.71	0.55%
				2400	40.55	39.3	3.19%	1.75	1.75	-0.15%
16	5/31/2023	2300	Head	2300	37.86	39.5	-4.09%	1.67	1.66	0.08%
				2350	37.78	39.4	-4.07%	1.71	1.71	0.02%
				2400	37.69	39.3	-4.09%	1.75	1.75	-0.38%
16	6/4/2023	2300	Head	2300	38.00	39.5	-3.73%	1.63	1.66	-2.27%
				2350	37.92	39.4	-3.72%	1.66	1.71	-2.79%
				2400	37.84	39.3	-3.71%	1.69	1.75	-3.29%
16	6/7/2023	2300	Head	2300	39.04	39.5	-1.10%	1.71	1.66	2.96%
				2350	38.94	39.4	-1.13%	1.75	1.71	2.71%
				2400	38.84	39.3	-1.16%	1.79	1.75	2.25%
16	6/18/2023	2300	Head	2300	39.34	39.5	-0.34%	1.65	1.66	-1.13%
				2350	39.24	39.4	-0.37%	1.68	1.71	-1.39%
				2400	39.16	39.3	-0.35%	1.72	1.75	-1.69%
16	6/21/2023	2300	Head	2300	38.60	39.5	-2.21%	1.67	1.66	0.38%
				2350	38.50	39.4	-2.25%	1.71	1.71	0.02%
				2400	38.39	39.3	-2.31%	1.74	1.75	-0.44%

**Dielectric Property Measurements (continued):**

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity ( $\epsilon_r$ )			Conductivity ( $\sigma$ )		
					Measured	Target	Delta	Measured	Target	Delta
17	5/17/2023	3500	Head	3500	37.95	37.9	0.05%	2.77	2.91	-4.73%
				3400	38.13	38.0	0.23%	2.68	2.81	-4.53%
				3600	37.77	37.8	-0.12%	2.87	3.01	-4.91%
17	5/21/2023	3500	Head	3500	39.62	37.9	4.46%	2.77	2.91	-4.73%
				3400	39.79	38.0	4.59%	2.69	2.81	-4.42%
				3600	39.45	37.8	4.32%	2.86	3.01	-4.97%
17	5/23/2023	3900	Head	3900	36.64	37.5	-2.22%	3.43	3.32	3.23%
				3800	36.88	37.6	-1.88%	3.34	3.22	3.80%
				4000	36.41	37.4	-2.54%	3.51	3.42	2.54%
17	5/24/2023	3500	Head	3500	37.25	37.9	-1.79%	3.03	2.91	4.03%
				3400	37.50	38.0	-1.43%	2.94	2.81	4.51%
				3600	37.00	37.8	-2.16%	3.12	3.01	3.65%
17	5/26/2023	3700	Head	3700	39.24	37.7	4.08%	2.96	3.12	-4.88%
				3600	39.41	37.8	4.22%	2.87	3.01	-4.64%
				3800	39.08	37.6	3.97%	3.06	3.22	-4.96%
17	5/28/2023	3500	Head	3500	36.97	37.9	-2.53%	2.82	2.91	-3.08%
				3400	37.19	38.0	-2.24%	2.73	2.81	-2.96%
				3600	36.79	37.8	-2.71%	2.92	3.01	-3.08%
17	5/31/2023	3500	Head	3500	36.95	37.9	-2.58%	2.78	2.91	-4.55%
				3400	37.13	38.0	-2.40%	2.69	2.81	-4.35%
				3600	36.76	37.8	-2.79%	2.87	3.01	-4.74%
17	5/31/2023	3700	Head	3700	36.56	37.7	-3.03%	2.96	3.12	-4.92%
				3600	36.76	37.8	-2.79%	2.87	3.01	-4.74%
				3800	36.38	37.6	-3.21%	3.06	3.22	-4.89%
17	6/4/2023	3500	Head	3500	39.31	37.9	3.64%	2.80	2.91	-3.87%
				3400	39.49	38.0	3.80%	2.71	2.81	-3.50%
				3600	39.14	37.8	3.50%	2.89	3.01	-4.11%
17	6/4/2023	3700	Head	3700	38.97	37.7	3.36%	2.98	3.12	-4.24%
				3600	39.14	37.8	3.50%	2.89	3.01	-4.11%
				3800	38.80	37.6	3.23%	3.08	3.22	-4.21%
17	6/7/2023	3500	Head	3500	37.17	37.9	-2.00%	2.78	2.91	-4.45%
				3400	37.36	38.0	-1.80%	2.70	2.81	-4.00%
				3600	36.99	37.8	-2.18%	2.87	3.01	-4.68%
17	6/21/2023	3500	Head	3150	39.47	38.3	2.97%	2.51	2.55	-1.80%
				3500	38.78	37.9	2.24%	2.82	2.91	-3.26%
				3850	38.14	37.5	1.63%	3.15	3.27	-3.70%
18	5/25/2023	3900	Head	3900	38.65	37.5	3.14%	3.17	3.32	-4.54%
				3800	38.82	37.6	3.28%	3.07	3.22	-4.71%
				4000	38.49	37.4	3.03%	3.27	3.42	-4.45%
18	5/28/2023	3900	Head	3900	36.01	37.5	-3.90%	3.27	3.32	-1.68%
				3800	36.24	37.6	-3.58%	3.16	3.22	-1.91%
				4000	35.81	37.4	-4.15%	3.37	3.42	-1.55%
18	5/31/2023	3900	Head	3900	36.05	37.5	-3.80%	3.21	3.32	-3.49%
				3800	36.23	37.6	-3.61%	3.10	3.22	-3.56%
				4000	35.88	37.4	-3.96%	3.31	3.42	-3.42%

**Dielectric Property Measurements (continued):**

SAR Lab	Date	Band (MHz)	Tissue Type	Frequency (MHz)	Relative Permittivity ( $\epsilon_r$ )			Conductivity ( $\sigma$ )		
					Measured	Target	Delta	Measured	Target	Delta
19	5/19/2023	2300	Head	2300	40.83	39.5	3.44%	1.71	1.66	2.90%
				2350	40.74	39.4	3.44%	1.76	1.71	2.77%
				2400	40.65	39.3	3.44%	1.79	1.75	2.30%
19	5/21/2023	2300	Head	2300	41.26	39.5	4.53%	1.74	1.66	4.34%
				2350	41.17	39.4	4.53%	1.77	1.71	3.88%
				2400	41.08	39.3	4.54%	1.81	1.75	3.22%
19	5/21/2023	4900	Head	4900	36.78	36.3	1.23%	4.19	4.34	-3.48%
				4800	36.96	36.4	1.41%	4.08	4.24	-3.77%
				5000	36.59	36.2	1.03%	4.30	4.45	-3.25%
19	5/24/2023	4900	Head	4900	34.93	36.3	-3.86%	4.48	4.34	3.11%
				4800	35.17	36.4	-3.50%	4.37	4.24	3.02%
				5000	34.68	36.2	-4.25%	4.59	4.45	3.16%
19	5/28/2023	4900	Head	4900	37.05	36.3	1.97%	4.40	4.34	1.38%
				4800	37.21	36.4	2.08%	4.28	4.24	1.00%
				5000	36.88	36.2	1.83%	4.52	4.45	1.70%
19	5/31/2023	4900	Head	4900	34.78	36.3	-4.27%	4.32	4.34	-0.58%
				4800	34.99	36.4	-4.00%	4.21	4.24	-0.87%
				5000	34.57	36.2	-4.55%	4.43	4.45	-0.32%

## 8.2. System Check

SAR system verification is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are re-measured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

### System Performance Check Measurement Conditions:

- The measurements were performed in the flat section of the TWIN SAM or ELI phantom, shell thickness: 2.0  $\pm$ 0.2 mm (bottom plate) filled with Body or Head simulating liquid of the following parameters.
- The depth of tissue-equivalent liquid in a phantom must be  $\geq$  15.0 cm for SAR measurements  $\leq$  3 GHz and  $\geq$  10.0 cm for measurements  $>$  3 GHz.
- The DASY system with an E-Field Probe was used for the measurements.
- The dipole was mounted on the small tripod so that the dipole feed point was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 10 mm (above 1 GHz) and 15 mm (below 1 GHz) from dipole center to the simulating liquid surface.
- The coarse grid with a grid spacing of 15 mm was aligned with the dipole.  
For 5 GHz band - The coarse grid with a grid spacing of 10 mm was aligned with the dipole.
- Special 7x7x7 (below 3 GHz) and/or 8x8x7 (above 3 GHz) fine cube was chosen for the cube.
- Distance between probe sensors and phantom surface was set to 3 mm.  
For 5 GHz band - Distance between probe sensors and phantom surface was set to 2.5 mm
- The dipole input power (forward power) was 100 mW.
- The results are normalized to 1 W input power.

**System Check Results**

The 1-g and 10-g SAR measured with a reference dipole, using the required tissue-equivalent medium at the test frequency, must be within ±10% of the manufacturer calibrated dipole SAR target. Refer to Appendix B for the SAR System Check Plots.

SAR Lab	Date	Tissue Type	Dipole Type & Serial Number	Dipole Cal. Due Date	Measured results for 1-g SAR				Measured results for 10-g SAR				Plot No.
					Zoom Scan at 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10%	Zoom Scan at 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10%	
A	5/19/2023	Head	D5GHzV2 SN: 1003 (5.75 GHz)	2/22/2024	7.25	72.5	79.3	-8.58%	2.05	20.5	22.4	-8.48%	1
A	5/21/2023	Head	D2450V2 SN: 706	1/20/2024	5.06	50.6	52.3	-3.25%	2.35	23.5	24.5	-4.08%	
A	5/25/2023	Head	D2450V2 SN: 706	1/20/2024	5.24	52.4	52.3	0.19%	2.44	24.4	24.5	-0.41%	
A	5/28/2023	Head	D2450V2 SN: 706	1/20/2024	4.98	49.8	52.3	-4.78%	2.32	23.2	24.5	-5.31%	2
A	6/1/2023	Head	D2450V2 SN: 706	1/20/2024	5.19	51.9	52.3	-0.76%	2.41	24.1	24.5	-1.63%	
A	6/4/2023	Head	D2450V2 SN: 706	1/20/2024	5.37	53.7	52.3	2.68%	2.49	24.9	24.5	1.63%	
B	5/21/2023	Head	D5GHzV2 SN: 1138 (5.25 GHz)	2/3/2024	7.46	74.6	79.5	-6.16%	2.15	21.5	22.6	-4.87%	3
B	5/24/2023	Head	D5GHzV2 SN: 1138 (5.25 GHz)	2/3/2024	7.86	78.6	79.5	-1.13%	2.27	22.7	22.6	0.44%	
B	5/28/2023	Head	D5GHzV2 SN: 1138 (5.25 GHz)	2/3/2024	8.21	82.1	79.5	3.27%	2.36	23.6	22.6	4.42%	
B	6/4/2023	Head	D5GHzV2 SN: 1138 (5.25 GHz)	2/3/2024	8.19	81.9	79.5	3.02%	2.35	23.5	22.6	3.98%	
B	6/22/2023	Head	D5GHzV2 SN: 1138 (5.25 GHz)	2/3/2024	7.83	78.3	79.5	-1.51%	2.24	22.4	22.6	-0.88%	
B	6/25/2023	Head	D5GHzV2 SN: 1138 (5.25 GHz)	2/3/2024	8.03	80.3	79.5	1.01%	2.30	23.0	22.6	1.77%	
D	5/18/2023	Head	D2450V2 SN: 899	4/18/2024	4.82	48.2	51.9	-7.13%	2.28	22.8	24.4	-6.56%	
D	5/21/2023	Head	D2450V2 SN: 899	4/18/2024	4.74	47.4	51.9	-8.67%	2.27	22.7	24.4	-6.97%	
D	5/28/2023	Head	D2450V2 SN: 899	4/18/2024	4.73	47.3	51.9	-8.86%	2.26	22.6	24.4	-7.38%	4
D	6/1/2023	Head	D2450V2 SN: 899	4/18/2024	4.85	48.5	51.9	-6.55%	2.32	23.2	24.4	-4.92%	
D	6/4/2023	Head	D2450V2 SN: 899	4/18/2024	4.84	48.4	51.9	-6.74%	2.32	23.2	24.4	-4.92%	
D	6/22/2023	Head	D2450V2 SN: 899	4/18/2024	5.10	51.0	51.9	-1.73%	2.45	24.5	24.4	0.41%	
E	5/26/2023	Head	D5GHzV2 SN: 1138 (5.25 GHz)	2/3/2024	7.23	72.3	79.5	-9.06%	2.06	20.6	22.6	-8.85%	5
E	6/4/2023	Head	D5GHzV2 SN: 1138 (5.25 GHz)	2/3/2024	7.23	72.3	79.5	-9.06%	2.06	20.6	22.6	-8.85%	6
E	6/22/2023	Head	D5GHzV2 SN: 1003 (5.25 GHz)	2/22/2024	7.61	76.1	80.3	-5.23%	2.16	21.6	22.9	-5.68%	7
F	5/21/2023	Head	D5GHzV2 SN: 1138 (5.60 GHz)	2/3/2024	8.66	86.6	82.5	3.76%	2.43	24.3	23.4	3.85%	
F	5/24/2023	Head	D5GHzV2 SN: 1138 (5.60 GHz)	2/3/2024	8.61	86.1	82.5	4.36%	2.44	24.4	23.4	4.27%	
F	5/28/2023	Head	D5GHzV2 SN: 1138 (5.60 GHz)	2/3/2024	7.88	78.8	82.5	-4.48%	2.24	22.4	23.4	-4.27%	
F	6/4/2023	Head	D5GHzV2 SN: 1168 (5.60 GHz)	11/23/2023	8.66	86.6	80.7	7.31%	2.45	24.5	22.8	7.46%	8
F	6/15/2023	Head	D5GHzV2 SN: 1138 (5.60 GHz)	2/3/2024	7.55	75.5	82.5	-8.48%	2.13	21.3	23.4	-8.97%	9
F	6/21/2023	Head	D5GHzV2 SN: 1138 (5.60 GHz)	2/3/2024	7.62	76.2	82.5	-7.64%	2.14	21.4	23.4	-8.55%	
F	6/25/2023	Head	D5GHzV2 SN: 1138 (5.60 GHz)	2/3/2024	7.60	76.0	82.5	-7.88%	2.14	21.4	23.4	-8.55%	10
H	5/25/2023	Head	D5GHzV2 SN: 1168 (5.75 GHz)	11/23/2023	8.00	80.0	80.1	-0.12%	2.31	23.1	22.7	1.76%	
H	5/28/2023	Head	D5GHzV2 SN: 1168 (5.75 GHz)	11/23/2023	7.42	74.2	80.1	-7.37%	2.13	21.3	22.7	-6.17%	11
H	6/1/2023	Head	D5GHzV2 SN: 1138 (5.75 GHz)	2/3/2024	7.24	72.4	78.3	-7.54%	2.06	20.6	22.2	-7.21%	12
H	6/4/2023	Head	D5GHzV2 SN: 1138 (5.75 GHz)	2/3/2024	7.67	76.7	78.3	-2.04%	2.19	21.9	22.2	-1.35%	
I	5/18/2023	Head	D2450V2 SN: 706	1/20/2024	5.54	55.4	52.3	5.93%	2.64	26.4	24.5	7.76%	13
I	5/21/2023	Head	D5GHzV2 SN: 1138 (5.75 GHz)	2/3/2024	8.20	82.0	78.3	4.73%	2.39	23.9	22.2	7.66%	
I	5/28/2023	Head	D5GHzV2 SN: 1138 (5.75 GHz)	2/3/2024	8.10	81.0	78.3	3.45%	2.33	23.3	22.2	4.95%	
I	6/1/2023	Head	D5GHzV2 SN: 1138 (5.75 GHz)	2/3/2024	7.31	73.1	78.3	-6.64%	2.11	21.1	22.2	-4.95%	14
1	5/17/2023	Head	D835V2 SN: 4d002	11/24/2023	1.01	10.1	9.83	2.75%	0.668	6.68	6.42	4.05%	
1	5/21/2023	Head	D835V2 SN: 4d002	11/24/2023	1.01	10.1	9.83	2.75%	0.674	6.74	6.42	4.98%	15
1	5/24/2023	Head	D835V2 SN: 4d002	11/24/2023	0.990	9.90	9.83	0.71%	0.661	6.61	6.42	2.96%	
1	5/27/2023	Head	D2600V2 SN: 1036	4/11/2024	5.68	56.8	55.4	2.53%	2.62	26.2	24.9	5.22%	16
1	5/29/2023	Head	D2600V2 SN: 1036	4/11/2024	5.60	56.0	55.4	1.08%	2.51	25.1	24.9	0.80%	
1	6/1/2023	Head	D835V2 SN: 4d002	11/24/2023	0.995	9.95	9.83	1.22%	0.664	6.64	6.42	3.43%	
1	6/2/2023	Head	D2600V2 SN: 1036	4/11/2024	5.59	55.9	55.4	0.90%	2.60	26.0	24.9	4.42%	
1	6/4/2023	Head	D835V2 SN: 4d002	11/24/2023	1.00	10.0	9.83	1.73%	0.669	6.69	6.42	4.21%	



**System Check Results (continued):**

SAR Lab	Date	Tissue Type	Dipole Type & Serial Number	Dipole Cal. Due Date	Measured results for 1-g SAR				Measured results for 10-g SAR				Plot No.
					Zoom Scan at 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10%	Zoom Scan at 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10%	
2	5/17/2023	Head	D1750V2 SN: 1053	10/17/2023	3.67	36.7	36.6	0.27%	1.98	19.8	19.4	2.06%	
2	5/21/2023	Head	D1750V2 SN: 1053	10/17/2023	3.71	37.1	36.6	1.37%	2.01	20.1	19.4	3.61%	17
2	5/24/2023	Head	D1750V2 SN: 1053	10/17/2023	3.70	37.0	36.6	1.09%	2.01	20.1	19.4	3.61%	
2	5/26/2023	Head	D1640V2 SN: 334	3/25/2023	3.40	34.0	33.9	0.29%	1.89	18.9	18.3	3.28%	
2	5/31/2023	Head	D3700V2 SN: 1110	11/30/2023	5.99	59.9	64.09	-6.54%	2.27	22.7	23.60	-3.81%	18
2	6/1/2023	Head	D3500V2 SN: 1011	4/17/2024	6.86	68.6	65.6	4.57%	2.70	27.0	24.7	9.31%	19
2	6/4/2023	Head	D3500V2 SN: 1011	4/17/2024	6.53	65.3	65.6	-0.46%	2.56	25.6	24.7	3.64%	
2	6/25/2023	Head	D1640V2 SN: 334	3/25/2023	3.10	31.0	33.9	-8.55%	1.74	17.4	18.3	-4.92%	20
4	5/21/2023	Head	D1750V2 SN: 1050	4/19/2024	3.70	37.0	36.1	2.49%	1.97	19.7	18.9	4.23%	
4	5/25/2023	Head	D1750V2 SN: 1050	4/19/2024	3.73	37.3	36.1	3.32%	1.99	19.9	18.9	5.29%	21
4	5/28/2023	Head	D1750V2 SN: 1050	4/19/2024	3.69	36.9	36.1	2.22%	1.95	19.5	18.9	3.17%	
5	5/25/2023	Head	D1900V2 SN: 5d163	10/28/2023	4.16	41.6	39.1	6.39%	2.15	21.5	20.4	5.39%	
5	5/28/2023	Head	D1900V2 SN: 5d163	10/28/2023	4.18	41.8	39.1	6.91%	2.18	21.8	20.4	6.86%	
5	6/4/2023	Head	D1900V2 SN: 5d163	10/28/2023	4.19	41.9	39.1	7.16%	2.19	21.9	20.4	7.35%	22
7	5/17/2023	Head	D835V2 SN: 4d002	11/24/2023	1.04	10.4	9.83	5.80%	0.680	6.80	6.42	5.92%	
7	5/21/2023	Head	D835V2 SN: 4d002	11/24/2023	1.07	10.7	9.83	8.85%	0.701	7.01	6.42	9.19%	23
7	5/25/2023	Head	D835V2 SN: 4d002	11/24/2023	0.996	9.96	9.83	1.32%	0.655	6.55	6.42	2.02%	
7	5/26/2023	Head	D2600V2 SN: 1036	4/11/2024	5.73	57.3	55.4	3.43%	2.61	26.1	24.9	4.82%	
7	5/28/2023	Head	D835V2 SN: 4d002	11/24/2023	1.02	10.2	9.83	3.76%	0.676	6.76	6.42	5.30%	
7	5/31/2023	Head	D2600V2 SN: 1036	4/11/2024	5.76	57.6	55.4	3.97%	2.61	26.1	24.9	4.82%	24
8	5/17/2023	Head	D1900V2 SN: 5d140	4/14/2024	4.27	42.7	39.4	8.38%	2.22	22.2	20.6	7.77%	
8	5/21/2023	Head	D1900V2 SN: 5d163	10/28/2023	3.69	36.9	39.1	-5.63%	1.91	19.1	20.4	-6.37%	25
8	5/25/2023	Head	D1900V2 SN: 5d140	4/14/2024	4.33	43.3	39.4	9.90%	2.26	22.6	20.6	9.71%	26
8	5/28/2023	Head	D1900V2 SN: 5d140	4/14/2024	4.13	41.3	39.4	4.82%	2.14	21.4	20.6	3.88%	
9	5/18/2023	Head	D750V3 SN: 1019	4/13/2024	0.895	8.95	8.51	5.17%	0.599	5.99	5.59	7.16%	
9	5/21/2023	Head	D750V3 SN: 1019	4/13/2024	0.860	8.60	8.51	1.06%	0.574	5.74	5.59	2.68%	
9	5/25/2023	Head	D750V3 SN: 1019	4/13/2024	0.860	8.60	8.51	1.06%	0.576	5.76	5.59	3.04%	
9	5/28/2023	Head	D750V3 SN: 1019	4/13/2024	0.908	9.08	8.51	6.70%	0.607	6.07	5.59	8.59%	27
10	5/17/2023	Head	D750V3 SN: 1071	11/24/2023	0.906	9.06	8.39	7.99%	0.602	6.02	5.50	9.45%	28
10	5/21/2023	Head	D750V3 SN: 1019	4/13/2024	0.899	8.99	8.51	5.64%	0.594	5.94	5.59	6.26%	29
12	5/18/2023	Head	D2600V2 SN: 1036	4/11/2024	5.98	59.8	55.4	7.94%	2.70	27.0	24.9	8.43%	
12	5/21/2023	Head	D2600V2 SN: 1036	4/11/2024	5.94	59.4	55.4	7.22%	2.70	27.0	24.9	8.43%	
12	5/24/2023	Head	D2600V2 SN: 1036	4/11/2024	5.46	54.6	55.4	-1.44%	2.48	24.8	24.9	-0.40%	
12	5/28/2023	Head	D2600V2 SN: 1036	4/11/2024	5.97	59.7	55.4	7.76%	2.72	27.2	24.9	9.24%	
12	6/1/2023	Head	D2600V2 SN: 1036	4/11/2024	5.98	59.8	55.4	7.94%	2.73	27.3	24.9	9.64%	30
12	6/4/2023	Head	D2600V2 SN: 1036	4/11/2024	5.75	57.5	55.4	3.79%	2.64	26.4	24.9	6.02%	
12	6/7/2023	Head	D2600V2 SN: 1036	4/11/2024	5.79	57.9	55.4	4.51%	2.66	26.6	24.9	6.83%	
12	6/11/2023	Head	D2600V2 SN: 1036	4/11/2024	5.70	57.0	55.4	2.89%	2.62	26.2	24.9	5.22%	
12	6/25/2023	Head	D2600V2 SN: 1036	4/11/2024	5.60	56.0	55.4	1.08%	2.55	25.5	24.9	2.41%	

**System Check Results (continued):**

SAR Lab	Date	Tissue Type	Dipole Type & Serial Number	Dipole Cal. Due Date	Measured results for 1-g SAR				Measured results for 10-g SAR				Plot No.
					Zoom Scan at 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10%	Zoom Scan at 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10%	
13	5/18/2023	Head	D3500V2 SN: 1011	4/17/2024	5.93	59.3	65.6	-9.60%	2.26	22.6	24.7	-8.50%	31
13	5/21/2023	Head	D3500V2 SN: 1011	4/17/2024	6.00	60.0	65.6	-8.54%	2.31	23.1	24.7	-6.48%	
13	5/24/2023	Head	D3700V2 SN: 1110	11/30/2023	6.98	69.8	64.1	8.91%	2.58	25.8	23.6	9.32%	32
13	5/30/2023	Head	D3500V2 SN: 1011	4/17/2024	6.62	66.2	65.6	0.91%	2.54	25.4	24.7	2.83%	
13	5/30/2023	Head	D3700V2 SN: 1110	11/30/2023	6.86	68.6	64.1	7.04%	2.55	25.5	23.6	8.05%	
13	6/4/2023	Head	D3500V2 SN: 1011	4/17/2024	6.33	63.3	65.6	-3.51%	2.45	24.5	24.7	-0.81%	
13	6/4/2023	Head	D3700V2 SN: 1110	11/30/2023	6.91	69.1	64.1	7.82%	2.58	25.8	23.6	9.32%	
13	6/8/2023	Head	D3500V2 SN: 1011	4/17/2024	6.50	65.0	65.6	-0.91%	2.51	25.1	24.7	1.62%	
13	6/8/2023	Head	D3700V2 SN: 1110	11/30/2023	6.90	69.0	64.1	7.66%	2.58	25.8	23.6	9.32%	
13	6/11/2023	Head	D3500V2 SN: 1011	4/17/2024	6.32	63.2	65.6	-3.66%	2.48	24.8	24.7	0.40%	
13	6/11/2023	Head	D3700V2 SN: 1110	11/30/2023	6.74	67.4	64.1	5.16%	2.55	25.5	23.6	8.05%	
13	6/15/2023	Head	D3500V2 SN: 1011	4/17/2024	6.85	68.5	65.6	4.42%	2.67	26.7	24.7	8.10%	
13	6/15/2023	Head	D3700V2 SN: 1110	11/30/2023	6.58	65.8	64.1	2.67%	2.47	24.7	23.6	4.66%	
13	6/21/2023	Head	D3500V2 SN: 1011	4/17/2024	6.31	63.1	65.6	-3.81%	2.48	24.8	24.7	0.40%	
15	5/21/2023	Head	D2600V2 SN: 1036	4/11/2024	5.95	59.5	55.4	7.40%	2.65	26.5	24.9	6.43%	
15	5/24/2023	Head	D2600V2 SN: 1036	4/11/2024	5.82	58.2	55.4	5.05%	2.60	26.0	24.9	4.42%	
15	5/28/2023	Head	D2600V2 SN: 1036	4/11/2024	5.62	56.2	55.4	1.44%	2.52	25.2	24.9	1.20%	
15	6/1/2023	Head	D2600V2 SN: 1036	4/11/2024	5.92	59.2	55.4	6.86%	2.64	26.4	24.9	6.02%	
15	6/4/2021	Head	D2600V2 SN: 1036	4/11/2024	5.92	59.2	55.4	6.86%	2.65	26.5	24.9	6.43%	
15	6/8/2023	Head	D2600V2 SN: 1036	4/11/2024	6.06	60.6	55.4	9.39%	2.72	27.2	24.9	9.24%	33
15	6/11/2023	Head	D2600V2 SN: 1036	4/11/2024	5.83	58.3	55.4	5.23%	2.63	26.3	24.9	5.62%	
16	5/18/2023	Head	D2300V2 SN: 1058	10/18/2023	5.33	53.3	48.5	9.90%	2.57	25.7	23.6	8.90%	34
16	5/21/2023	Head	D2300V2 SN: 1058	10/18/2023	5.00	50.0	48.5	3.09%	2.40	24.0	23.6	1.69%	
16	5/24/2023	Head	D2300V2 SN: 1058	10/18/2023	5.19	51.9	48.5	7.01%	2.50	25.0	23.6	5.93%	
16	5/28/2023	Head	D2300V2 SN: 1058	10/18/2023	5.28	52.8	48.5	8.87%	2.54	25.4	23.6	7.63%	
16	6/1/2023	Head	D2300V2 SN: 1058	10/18/2023	5.25	52.5	48.5	8.25%	2.52	25.2	23.6	6.78%	
16	6/4/2023	Head	D2300V2 SN: 1058	10/18/2023	5.14	51.4	48.5	5.98%	2.48	24.8	23.6	5.08%	
16	6/7/2023	Head	D2300V2 SN: 1058	10/18/2023	4.97	49.7	48.5	2.47%	2.38	23.8	23.6	0.85%	
16	6/18/2023	Head	D2300V2 SN: 1058	10/18/2023	5.13	51.3	48.5	5.77%	2.47	24.7	23.6	4.66%	
16	6/22/2023	Head	D2300V2 SN: 1058	10/18/2023	4.96	49.6	48.5	2.27%	2.39	23.9	23.6	1.27%	
17	5/17/2023	Head	D3500V2 SN: 1060	2/7/2024	6.20	62.0	65.7	-5.63%	2.46	24.6	24.9	-1.20%	
17	5/21/2023	Head	D3500V2 SN: 1060	2/7/2024	6.96	69.6	65.7	5.94%	2.72	27.2	24.9	9.24%	35
17	5/23/2023	Head	D3900V2 SN: 1093	9/28/2023	6.60	66.0	70.3	-6.12%	2.38	23.8	24.5	-2.86%	36
17	5/24/2023	Head	D3500V2 SN: 1060	2/7/2024	6.38	63.8	65.7	-2.89%	2.50	25.0	24.9	0.40%	
17	5/26/2023	Head	D3700V2 SN: 1110	11/30/2023	6.72	67.2	64.1	4.85%	2.56	25.6	23.6	8.47%	
17	5/28/2023	Head	D3500V2 SN: 1060	2/7/2024	6.81	68.1	65.7	3.65%	2.65	26.5	24.9	6.43%	
17	5/31/2023	Head	D3500V2 SN: 1060	2/7/2024	6.89	68.9	65.7	4.87%	2.70	27.0	24.9	8.43%	
17	5/31/2023	Head	D3700V2 SN: 1110	11/30/2023	6.79	67.9	64.1	5.94%	2.58	25.8	23.6	9.32%	37
17	6/4/2023	Head	D3500V2 SN: 1060	2/7/2024	6.40	64.0	65.7	-2.59%	2.47	24.7	24.9	-0.80%	
17	6/4/2023	Head	D3700V2 SN: 1110	11/30/2023	6.44	64.4	64.1	0.48%	2.39	23.9	23.6	1.27%	
17	6/7/2023	Head	D3500V2 SN: 1060	2/7/2024	6.25	62.5	65.7	-4.87%	2.41	24.1	24.9	-3.21%	
17	6/21/2023	Head	D3500V2 SN: 1060	2/7/2024	6.36	63.6	65.7	-3.20%	2.47	24.7	24.9	-0.80%	
18	5/25/2023	Head	D3900V2 SN: 1093	9/28/2023	6.73	67.3	70.3	-4.27%	2.40	24.0	24.5	-2.04%	38
18	5/28/2023	Head	D3900V2 SN: 1093	9/28/2023	7.32	73.2	70.3	4.13%	2.62	26.2	24.5	6.94%	
18	5/31/2023	Head	D3900V2 SN: 1093	9/28/2023	7.13	71.3	70.3	1.42%	2.54	25.4	24.5	3.67%	

**System Check Results (continued):**

SAR Lab	Date	Tissue Type	Dipole Type & Serial Number	Dipole Cal. Due Date	Measured results for 1-g SAR				Measured results for 10-g SAR				Plot No.
					Zoom Scan at 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10%	Zoom Scan at 100 mW	Normalize to 1 W	Target (Ref. Value)	Delta ±10%	
19	5/19/2023	Head	D2300V2 SN: 1002	4/11/2024	4.93	49.3	48.7	1.23%	2.38	23.8	23.8	0.00%	
19	5/21/2023	Head	D2300V2 SN: 1002	4/11/2024	4.77	47.7	48.7	-2.05%	2.30	23.0	23.8	-3.36%	39
19	5/21/2023	Head	D4900V2 SN: 1065 (4.9 GHz)	11/16/2023	6.73	67.3	69.9	-3.72%	2.16	21.6	22.0	-1.82%	
19	5/24/2023	Head	D4900V2 SN: 1065 (4.9 GHz)	11/16/2023	7.40	74.0	69.9	5.87%	2.37	23.7	22.0	7.73%	40
19	5/28/2023	Head	D4900V2 SN: 1065 (4.9 GHz)	11/16/2023	7.39	73.9	69.9	5.72%	2.36	23.6	22.0	7.27%	
19	5/31/2023	Head	D4900V2 SN: 1065 (4.9 GHz)	11/16/2023	7.36	73.6	69.9	5.29%	2.36	23.6	22.0	7.27%	
SAR Lab	Date	Tissue Type	Dipole Type & Serial Number	Dipole Cal. Due Date	Measured results for 1-g SAR				Measured results for 10-g SAR				Plot No.
2	5/26/2023	Head	CLA13 SN: 1008	1/12/2024	Zoom Scan (1 W)	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan (1 W)	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	41
					0.533	0.533	0.544	-2.02%	0.330	0.330	0.338	-2.37%	

## 9. Conducted Output Power Measurements

Power measurements were performed in accordance with the device's two power modes, Mode A and Mode B for each antenna. Mode A power is used when the device is used against the user's head or away from the body. Mode B power is used when the device is used in a Body-worn configuration by the user.

The selection between antennas in the application is based on RSSI based antenna selection. The full details of power selections are described in the operational description. Refer to Sec. 7 and Sec. 10 for details of the testing. Test reductions have applied accordingly following the SAR KDB Procedure for the supported wireless technologies of the DUT. This is noted in detail for each technology in their respective Sections.

The Maximum Output Power already includes component uncertainty. KDB 447498 sec.4.1.(d) at the maximum rated output power and within the tune-up tolerance range specified for the product, but not more than 2 dB lower than the maximum tune-up tolerance limit.

Two different powers are being displayed in this section:

- Target Output Power = Power not including uncertainty
- Maximum Output Power = Power of target + uncertainty.

This Section contains Conducted Output Power Measurements for Tx modes in which SAR is required. Refer to Appendix K for Conducted Output Power Measurements for Tx modes in which SAR is not required.

### 9.1. GSM

#### Per KDB 941225 D01 3G SAR Procedures:

SAR test reduction for GPRS and EDGE modes is determined by the source-based time-averaged output power specified for production units, including tune-up tolerance. The data mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.

When different maximum output power applies to GSM voice or GPRS/EDGE time slots, GSM voice and GPRS/EDGE time slots should be tested separately to determine compliance by summing the corresponding reported SAR.

The GMSK EDGE configurations are grouped with GPRS and considered with respect to time-averaged maximum output power to determine compliance

#### Per October 2013 TCB Workshop:

When the maximum frame-averaged powers levels are within 0.25 dB of each other, test the configuration with the greatest number of time slots.

#### Maximum Output Power for GSM

RF Air interface	Mode	Target Output Power (dBm)								Maximum Output Power (dBm)							
		ANT1		ANT2		ANT3		ANT4		ANT1		ANT2		ANT3		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
GSM850	Voice/GPRS (1 slot)	32.0	32.0	31.5	31.5					33.0	33.0	32.5	32.5				
	GPRS 2 slots	31.0	31.0	28.8	30.5					32.0	32.0	29.8	31.5				
	EGPRS 1 slot	26.5	26.5	26.0	26.0					27.5	27.5	27.0	27.0				
	EGPRS 2 slots	25.5	25.5	25.0	25.0					26.5	26.5	26.0	26.0				
GSM1900	Voice/GPRS (1 slot)	31.0	27.4	28.3	28.1	29.7	29.8	26.3	28.0	32.0	28.4	29.3	29.1	30.7	30.8	27.3	29.0
	GPRS 2 slots	29.5	24.4	25.3	25.1	26.7	26.8	23.3	25.0	30.5	25.4	26.3	26.1	27.7	27.8	24.3	26.0
	EGPRS 1 slot	26.0	26.0	23.0	23.0	25.5	25.5	23.0	23.0	27.0	27.0	24.0	24.0	26.5	26.5	24.0	24.0
	EGPRS 2 slots	25.0	24.4	22.0	22.0	24.5	24.5	22.0	22.0	26.0	25.4	23.0	23.0	25.5	25.5	23.0	23.0

#### Notes:

SAR is not required for EDGE (8PSK) mode because the maximum output power is  $\leq 1/4$ dB higher than GPRS/EDGE (GMSK) or the adjusted SAR of the highest reported SAR of GPRS/EDGE (GMSK) is  $\leq 1.2$ W/kg.

**GSM850 Measured Results (ANT1)**

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Maximum Output Power		Measured		Maximum Output Power	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	2	128	824.2	31.2	25.1	32.0	26.0	31.6	25.5	32.0	26.0
			190	836.6	31.5	25.5			31.5	25.5		
			251	848.8	31.4	25.4			31.4	25.4		

**Notes:**

Based on the Maximum Output Power, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

**GSM850 Measured Results (ANT2)**

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Maximum Output Power		Measured		Maximum Output Power	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	2	128	824.2	29.7	23.6	29.8	23.8	31.5	25.5	31.5	25.5
			190	836.6	29.7	23.7			31.4	25.4		
			251	848.8	29.7	23.6			31.5	25.4		

**Notes:**

Based on the Maximum Output Power, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

**GSM1900 Measured Results (ANT1)**

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Maximum Output Power		Measured		Maximum Output Power	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	2	512	1850.2	30.5	24.5	30.5	24.5	24.9	18.9	25.4	19.4
			661	1880.0	30.5	24.5			24.7	18.6		
			810	1909.8	30.5	24.5			24.8	18.8		

**Notes:**

Based on the Maximum Output Power, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

**GSM1900 Measured Results (ANT2)**

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Maximum Output Power		Measured		Maximum Output Power	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	2	512	1850.2	25.3	19.2	26.3	20.3	25.3	19.2	26.1	20.1
			661	1880.0	25.4	19.4			25.4	19.4		
			810	1909.8	25.4	19.4			25.4	19.4		

**Notes:**

Based on the Maximum Output Power, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

**GSM1900 Measured Results (ANT3)**

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Maximum Output Power		Measured		Maximum Output Power	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	2	512	1850.2	27.1	21.0	27.7	21.7	26.8	20.7	27.8	21.8
			661	1880.0	27.4	21.4			27.0	21.0		
			810	1909.8	27.3	21.3			26.6	20.6		

**Notes:**

Based on the Maximum Output Power, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

**GSM1900 Measured Results (ANT4)**

Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Power Mode A (dBm)				Power Mode B (dBm)			
					Measured		Maximum Output Power		Measured		Maximum Output Power	
					Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr
GPRS/EDGE (GMSK)	CS1	2	512	1850.2	23.5	17.5	24.3	18.3	24.7	18.7	26.0	20.0
			661	1880.0	23.3	17.3			25.3	19.3		
			810	1909.8	23.6	17.6			25.3	19.3		

**Notes:**

Based on the Maximum Output Power, GPRS/EDGE (GMSK) mode with 2 time slots for Mode A and Mode B have maximum frame-averaged power.

## 9.2. W-CDMA

### Per KDB 941225 D01 3G SAR Procedures for W-CDMA:

Maximum output power is verified on the high, middle, and low channels and using the appropriate 12.2 kbps RMC with TPC (transmit power control) set to all "1's"

### Release 99 Setup Procedures used to establish the test signals

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1. A summary of these settings is illustrated below:

Mode	Subtest	Rel99
WCDMA General Settings	Loopback Mode	Test Mode 2
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm2
	$\beta_c/\beta_d$	8/15

### Maximum Output Power for W-CDMA

SAR measurement is not required for the HSDPA, HSUPA, DC-HSDPA and HSPA+. When primary mode and the adjusted SAR is  $\leq 1.2$  W/kg and secondary mode is  $\leq 1/4$  dB higher than the primary mode

RF Air interface	Mode	Target Output Power (dBm)								Maximum Output Power (dBm)							
		ANT1		ANT2		ANT3		ANT4		ANT1		ANT2		ANT3		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
W-CDMA Band 2	R99	23.8	18.7	19.6	19.4	21.0	21.1	17.6	19.3	24.5	19.4	20.3	20.1	21.7	21.8	18.3	20.0
	HSDPA	23.8	18.7	19.6	19.4	21.0	21.1	17.6	19.3	24.5	19.4	20.3	20.1	21.7	21.8	18.3	20.0
	HSUPA	23.8	18.7	19.6	19.4	21.0	21.1	17.6	19.3	24.5	19.4	20.3	20.1	21.7	21.8	18.3	20.0
	DC-HSDPA	23.8	18.7	19.6	19.4	21.0	21.1	17.6	19.3	24.5	19.4	20.3	20.1	21.7	21.8	18.3	20.0
	HSPA+	23.8	18.7	19.6	19.4	21.0	21.1	17.6	19.3	24.5	19.4	20.3	20.1	21.7	21.8	18.3	20.0
W-CDMA Band 4	R99	23.5	18.4	19.1	19.1	20.9	21.7	18.4	20.0	24.2	19.1	19.8	19.8	21.6	22.4	19.1	20.7
	HSDPA	23.5	18.4	19.1	19.1	20.9	21.7	18.4	20.0	24.2	19.1	19.8	19.8	21.6	22.4	19.1	20.7
	HSUPA	23.5	18.4	19.1	19.1	20.9	21.7	18.4	20.0	24.2	19.1	19.8	19.8	21.6	22.4	19.1	20.7
	DC-HSDPA	23.5	18.4	19.1	19.1	20.9	21.7	18.4	20.0	24.2	19.1	19.8	19.8	21.6	22.4	19.1	20.7
	HSPA+	23.5	18.4	19.1	19.1	20.9	21.7	18.4	20.0	24.2	19.1	19.8	19.8	21.6	22.4	19.1	20.7
W-CDMA Band 5	R99	25.0	25.0	23.1	24.0					25.7	25.7	23.8	24.7				
	HSDPA	25.0	25.0	23.1	24.0					25.7	25.7	23.8	24.7				
	HSUPA	25.0	25.0	23.1	24.0					25.7	25.7	23.8	24.7				
	DC-HSDPA	25.0	25.0	23.1	24.0					25.7	25.7	23.8	24.7				
	HSPA+	25.0	25.0	23.1	24.0					25.7	25.7	23.8	24.7				

**W-CDMA Band 2 Measured Results (ANT1)**

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Maximum Output Power	Measured Pwr	MPR	Maximum Output Power
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	24.2	N/A	24.5	18.6	N/A	19.4
		9400	1880.0	24.2			18.5		
		9538	1907.6	24.2			18.6		

**W-CDMA Band 2 Measured Results (ANT2)**

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Maximum Output Power	Measured Pwr	MPR	Maximum Output Power
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	19.4	N/A	20.3	19.2	N/A	20.1
		9400	1880.0	19.5			19.3		
		9538	1907.6	19.4			19.2		

**W-CDMA Band 2 Measured Results (ANT3)**

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Maximum Output Power	Measured Pwr	MPR	Maximum Output Power
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	21.1	N/A	21.7	20.7	N/A	21.8
		9400	1880.0	21.3			20.9		
		9538	1907.6	21.4			21.0		

**W-CDMA Band 2 Measured Results (ANT4)**

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Maximum Output Power	Measured Pwr	MPR	Maximum Output Power
Release 99	Rel 99 (RMC, 12.2 kbps)	9262	1852.4	17.0	N/A	18.3	18.6	N/A	20.0
		9400	1880.0	17.3			18.9		
		9538	1907.6	17.3			18.9		

**W-CDMA Band 4 Measured Results (ANT1)**

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Maximum Output Power	Measured Pwr	MPR	Maximum Output Power
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	23.7	N/A	24.2	17.8	N/A	19.1
		1413	1732.6	23.8			18.0		
		1513	1752.6	23.0			17.8		

**W-CDMA Band 4 Measured Results (ANT2)**

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Maximum Output Power	Measured Pwr	MPR	Maximum Output Power
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	18.7	N/A	19.8	19.0	N/A	19.8
		1413	1732.6	18.8			18.9		
		1513	1752.6	18.7			18.8		

**W-CDMA Band 4 Measured Results (ANT3)**

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Maximum Output Power	Measured Pwr	MPR	Maximum Output Power
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	21.0	N/A	21.6	20.9	N/A	22.4
		1413	1732.6	21.1			20.9		
		1513	1752.6	21.0			20.7		

**W-CDMA Band 4 Measured Results (ANT4)**

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Maximum Output Power	Measured Pwr	MPR	Maximum Output Power
Release 99	Rel 99 (RMC, 12.2 kbps)	1312	1712.4	18.3	N/A	19.1	20.5	N/A	20.7
		1413	1732.6	18.4			20.5		
		1513	1752.6	18.4			20.2		

**W-CDMA Band 5 Measured Results (ANT1)**

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Maximum Output Power	Measured Pwr	MPR	Maximum Output Power
Release 99	Rel 99 (RMC, 12.2 kbps)	4132	826.4	25.3	N/A	25.7	25.3	N/A	25.7
		4183	836.6	25.2			25.3		
		4233	846.6	25.2			25.2		

**W-CDMA Band 5 Measured Results (ANT2)**

Mode		UL Ch No.	Freq. (MHz)	Power Mode A (dBm)			Power Mode B (dBm)		
				Measured Pwr	MPR	Maximum Output Power	Measured Pwr	MPR	Maximum Output Power
Release 99	Rel 99 (RMC, 12.2 kbps)	4132	826.4	23.2	N/A	23.8	24.6	N/A	24.7
		4183	836.6	23.2			24.7		
		4233	846.6	23.2			24.6		



### 9.3. LTE

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS36.101.

**Table 6.2.3-1: Maximum Power Reduction (MPR) for Power Class 1, 2 and 3**

Modulation	Channel bandwidth / Transmission bandwidth (N <sub>RB</sub> )						MPR (dB)
	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
256 QAM	≥ 1						≤ 5

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS\_01".

**Table 6.2.4-1: Additional Maximum Power Reduction (A-MPR)**

Network Signalling value	Requirements (subclause)	E-UTRA Band	Channel bandwidth (MHz)	Resources Blocks (N <sub>RB</sub> )	A-MPR (dB)
NS_01	6.6.2.1.1	Table 5.5-1	1.4, 3, 5, 10, 15, 20	Table 5.6-1	N/A

**Maximum Output Power for LTE**

According to April 2015 TCB workshop, SAR test exclusion can be applied for testing overlapping LTE bands as follows:

- a) The maximum output power for the smaller band must be ≤ the larger band to qualify for the SAR test exclusion.
- b) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.
  - LTE Band 2 (1850-1910 MHz) is covered by LTE Band 25 (1850-1915 MHz)
  - LTE Band 4 (1710-1755 MHz) is covered by LTE Band 66 (1710-1780 MHz)
  - LTE Band 17 (704-716 MHz) is covered by LTE Band 12 (699-716 MHz)

Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 SAR for LTE Devices.

LTE QPSK configuration has the highest maximum average output power per 3GPP standard.

SAR measurement is not required for the 16QAM and 64QAM. When the highest maximum output power for 16QAM and 64QAM is ≤ ½ dB higher than the QPSK or when the reported SAR for the QPSK configuration is ≤ 1.45 W/kg.

Please refer to section 6.3. for LTE detail test channels.

RF Air interface	Mode	Target Output Power (dBm)								Maximum Output Power (dBm)							
		ANT1		ANT2		ANT3		ANT4		ANT1		ANT2		ANT3		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
LTE Band 2	QPSK	23.8	18.7	19.6	19.4	21.0	21.1	17.6	19.3	24.5	19.4	20.3	20.1	21.7	21.8	18.3	20.0
LTE Band 4	QPSK	23.5	18.4	19.1	19.1	20.9	21.7	18.4	20.0	24.2	19.1	19.8	19.8	21.6	22.4	19.1	20.7
LTE Band 5	QPSK	25.0	25.0	23.1	24.0	23.8	24.7			25.7	25.7	23.8	24.7	24.5	25.4		
LTE Band 7	QPSK	23.3	19.6	18.4	16.8	21.8	19.0	18.2	18.3	24.0	20.3	19.1	17.5	22.5	19.7	18.9	19.0
LTE Band 12	QPSK	25.0	25.0	24.0	24.0	24.7	24.7			25.7	25.7	24.7	24.7	25.4	25.4		
LTE Band 13	QPSK	25.0	25.0	24.0	24.0	24.7	24.7			25.7	25.7	24.7	24.7	25.4	25.4		
LTE Band 14	QPSK	25.0	25.0	24.0	24.0	24.7	24.7			25.7	25.7	24.7	24.7	25.4	25.4		
LTE Band 17	QPSK	25.0	25.0	24.0	24.0	24.7	24.7			25.7	25.7	24.7	24.7	25.4	25.4		
LTE Band 25	QPSK	23.8	18.7	19.6	19.4	21.0	21.1	17.6	19.3	24.5	19.4	20.3	20.1	21.7	21.8	18.3	20.0
LTE Band 26	QPSK	25.0	25.0	23.1	24.0	23.8	24.7			25.7	25.7	23.8	24.7	24.5	25.4		
LTE Band 30	QPSK	22.2	21.4	20.4	19.7	21.3	20.9	17.5	18.3	22.9	22.1	21.1	20.4	22.0	21.6	18.2	19.0
LTE Band 41 (PC3)	QPSK	24.7	21.5	20.0	19.6	23.5	20.2	19.7	19.1	25.7	22.5	21.0	20.6	24.5	21.2	20.7	20.1
LTE Band 41 (PC 2)	QPSK	26.4	23.1	21.6	21.2	25.1	21.8	21.3	20.7	27.4	24.1	22.6	22.2	26.1	22.8	22.3	21.7
LTE Band 53	QPSK	20.0	20.0	20.0	19.4					20.7	20.7	20.7	20.1				
LTE Band 66	QPSK	23.5	18.4	19.1	19.1	20.9	21.7	18.4	20.0	24.2	19.1	19.8	19.8	21.6	22.4	19.1	20.7
LTE Band 71	QPSK	25.0	25.0	24.0	24.0	24.7	24.7			25.7	25.7	24.7	24.7	25.4	25.4		
RF Air interface	Mode	Target Output Power (dBm)								Maximum Output Power (dBm)							
		ANT7		ANT8		ANT9		ANT4		ANT7		ANT8		ANT9		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
LTE Band 48	QPSK	22.5	19.3	21.2	21.2	20.6	19.6	20.5	19.7	23.5	20.3	22.2	22.2	21.6	20.6	21.5	20.7

**LTE Band 5 Measured Results (ANT1)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)				Power Mode B (dBm)			
				20525		MPR	Maximum Output Power	20525		MPR	Maximum Output Power
				836.5 MHz				836.5 MHz			
10	QPSK	1	0		24.8	0	25.7		24.9	0	25.7
		1	25		24.9	0	25.7		25.0	0	25.7
		1	49		24.9	0	25.7		24.9	0	25.7
		25	0		24.0	1	24.7		24.0	1	24.7
		25	12		24.1	1	24.7		24.1	1	24.7
		25	25		24.0	1	24.7		24.0	1	24.7
		50	0		24.1	1	24.7		24.1	1	24.7

**LTE Band 5 Measured Results (ANT2)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)				Power Mode B (dBm)			
				20525	MPR	Maximum Output Power	20525	MPR	Maximum Output Power		
				836.5 MHz			836.5 MHz				
10	QPSK	1	0	23.0	0	23.8	24.2	0	24.7		
		1	25	23.2	0	23.8	24.4	0	24.7		
		1	49	23.0	0	23.8	24.3	0	24.7		
		25	0	23.1	0.1	23.7	23.3	1	23.7		
		25	12	23.1	0.1	23.7	23.3	1	23.7		
		25	25	23.1	0.1	23.7	23.3	1	23.7		
		50	0	23.1	0.1	23.7	23.3	1	23.7		

**LTE Band 5 Measured Results (ANT3)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)				Power Mode B (dBm)			
				20525	MPR	Maximum Output Power	20525	MPR	Maximum Output Power		
				836.5 MHz			836.5 MHz				
10	QPSK	1	0	23.9	0	24.5	24.9	0	25.4		
		1	25	24.0	0	24.5	24.9	0	25.4		
		1	49	24.0	0	24.5	24.9	0	25.4		
		25	0	23.9	0.1	24.4	23.9	1	24.4		
		25	12	24.0	0.1	24.4	24.0	1	24.4		
		25	25	24.0	0.1	24.4	23.9	1	24.4		
		50	0	23.9	0.1	24.4	24.0	1	24.4		

**LTE Band 7 Measured Results (ANT1)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20850	21100	21350	MPR	Maximum Output Power	20850	21100	21350	MPR	Maximum Output Power
				2510 MHz	2535 MHz	2560 MHz			2510 MHz	2535 MHz	2560 MHz		
20	QPSK	1	0	23.3	23.3	23.1	0	24.0	19.6	19.5	19.6	0	20.3
		1	49	23.4	23.4	23.2	0	24.0	19.8	19.6	19.7	0	20.3
		1	99	23.3	23.3	23.1	0	24.0	19.6	19.5	19.5	0	20.3
		50	0	23.4	23.3	23.1	0	24.0	19.7	19.6	19.6	0	20.3
		50	24	23.5	23.4	23.2	0	24.0	19.9	19.7	19.7	0	20.3
		50	50	23.4	23.3	23.1	0	24.0	19.7	19.6	19.6	0	20.3
		100	0	23.4	23.4	23.2	0	24.0	19.7	19.7	19.7	0	20.3

**LTE Band 7 Measured Results (ANT2)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20850	21100	21350	MPR	Maximum Output Power	20850	21100	21350	MPR	Maximum Output Power
				2510 MHz	2535 MHz	2560 MHz			2510 MHz	2535 MHz	2560 MHz		
20	QPSK	1	0	18.5	18.5	18.7	0	19.1	16.8	16.8	16.9	0	17.5
		1	49	18.5	18.7	18.7	0	19.1	16.8	16.8	16.9	0	17.5
		1	99	18.5	18.6	18.7	0	19.1	16.8	16.8	16.9	0	17.5
		50	0	18.7	18.7	18.8	0	19.1	16.9	16.9	17.0	0	17.5
		50	24	18.7	18.7	18.9	0	19.1	16.9	16.9	17.0	0	17.5
		50	50	18.7	18.7	18.8	0	19.1	16.9	16.9	16.9	0	17.5
		100	0	18.7	18.7	18.9	0	19.1	16.8	16.9	17.0	0	17.5

**LTE Band 7 Measured Results (ANT3)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20850	21100	21350	MPR	Maximum Output Power	20850	21100	21350	MPR	Maximum Output Power
				2510 MHz	2535 MHz	2560 MHz			2510 MHz	2535 MHz	2560 MHz		
20	QPSK	1	0	22.4	22.4	22.4	0	22.5	19.1	19.0	19.0	0	19.7
		1	49	22.4	22.4	22.5	0	22.5	19.2	19.0	19.0	0	19.7
		1	99	22.4	22.3	22.3	0	22.5	19.2	18.9	19.0	0	19.7
		50	0	22.4	22.4	22.4	0	22.5	19.3	19.2	19.0	0	19.7
		50	24	22.4	22.4	22.4	0	22.5	19.4	19.2	19.1	0	19.7
		50	50	22.3	22.4	22.4	0	22.5	19.3	19.1	19.1	0	19.7
		100	0	22.5	22.5	22.5	0	22.5	19.2	19.2	19.0	0	19.7

**LTE Band 7 Measured Results (ANT4)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)					Power Mode B (dBm)				
				20850	21100	21350	MPR	Maximum Output Power	20850	21100	21350	MPR	Maximum Output Power
				2510 MHz	2535 MHz	2560 MHz			2510 MHz	2535 MHz	2560 MHz		
20	QPSK	1	0	17.8	17.4	17.5	0	18.9	18.0	17.7	17.6	0	19.0
		1	49	17.8	17.4	17.6	0	18.9	18.0	17.7	17.7	0	19.0
		1	99	17.7	17.4	17.6	0	18.9	17.8	17.7	17.7	0	19.0
		50	0	17.9	17.5	17.6	0	18.9	18.0	17.8	17.7	0	19.0
		50	24	17.9	17.5	17.7	0	18.9	18.0	17.8	17.8	0	19.0
		50	50	17.8	17.5	17.7	0	18.9	17.9	17.8	17.8	0	19.0
		100	0	17.7	17.7	17.7	0	18.9	17.8	18.0	17.8	0	19.0

**LTE Band 12 Measured Results (ANT1)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)				Power Mode B (dBm)			
				23095	MPR	Maximum Output Power	23095	MPR	Maximum Output Power		
				707.5 MHz			707.5 MHz				
10	QPSK	1	0	25.2	0	25.7	24.6	0	25.7		
		1	25	25.3	0	25.7	24.7	0	25.7		
		1	49	25.2	0	25.7	24.6	0	25.7		
		25	0	24.2	1	24.7	24.2	1	24.7		
		25	12	24.3	1	24.7	24.3	1	24.7		
		25	25	24.2	1	24.7	24.2	1	24.7		
		50	0	24.3	1	24.7	24.3	1	24.7		

**LTE Band 12 Measured Results (ANT2)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)				Power Mode B (dBm)			
				23095	MPR	Maximum Output Power	23095	MPR	Maximum Output Power		
				707.5 MHz			707.5 MHz				
10	QPSK	1	0	23.9	0	24.7	24.2	0	24.7		
		1	25	23.9	0	24.7	24.3	0	24.7		
		1	49	23.9	0	24.7	24.2	0	24.7		
		25	0	23.2	1	23.7	23.2	1	23.7		
		25	12	23.3	1	23.7	23.3	1	23.7		
		25	25	23.3	1	23.7	23.3	1	23.7		
		50	0	23.3	1	23.7	23.3	1	23.7		

**LTE Band 12 Measured Results (ANT3)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)				Power Mode B (dBm)			
				23095	MPR	Maximum Output Power	23095	MPR	Maximum Output Power		
				707.5 MHz			707.5 MHz				
10	QPSK	1	0	24.1	0	25.4	24.9	0	25.4		
		1	25	24.3	0	25.4	25.0	0	25.4		
		1	49	24.2	0	25.4	25.0	0	25.4		
		25	0	23.9	1	24.4	23.9	1	24.4		
		25	12	24.0	1	24.4	24.0	1	24.4		
		25	25	24.0	1	24.4	24.0	1	24.4		
		50	0	23.9	1	24.4	23.9	1	24.4		

**LTE Band 13 Measured Results (ANT1)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)				Power Mode B (dBm)			
				23230	MPR	Maximum Output Power	23230	MPR	Maximum Output Power		
				782 MHz			782 MHz				
10	QPSK	1	0	25.1	0	25.7	24.7	0	25.7		
		1	25	25.2	0	25.7	24.8	0	25.7		
		1	49	25.1	0	25.7	24.7	0	25.7		
		25	0	24.3	1	24.7	24.4	1	24.7		
		25	12	24.4	1	24.7	24.5	1	24.7		
		25	25	24.4	1	24.7	24.4	1	24.7		
		50	0	24.4	1	24.7	24.4	1	24.7		

**LTE Band 13 Measured Results (ANT2)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)				Power Mode B (dBm)			
				23230	MPR	Maximum Output Power	23230	MPR	Maximum Output Power		
				782 MHz			782 MHz				
10	QPSK	1	0	23.8	0	24.7	24.2	0	24.7		
		1	25	23.9	0	24.7	24.3	0	24.7		
		1	49	23.8	0	24.7	24.2	0	24.7		
		25	0	23.1	1	23.7	23.2	1	23.7		
		25	12	23.2	1	23.7	23.2	1	23.7		
		25	25	23.2	1	23.7	23.2	1	23.7		
		50	0	23.2	1	23.7	23.2	1	23.7		

**LTE Band 13 Measured Results (ANT3)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)				Power Mode B (dBm)			
				23230	MPR	Maximum Output Power	23230	MPR	Maximum Output Power		
				782 MHz			782 MHz				
10	QPSK	1	0	25.0	0	25.4	25.0	0	25.4		
		1	25	25.0	0	25.4	25.0	0	25.4		
		1	49	24.9	0	25.4	24.9	0	25.4		
		25	0	24.0	1	24.4	24.0	1	24.4		
		25	12	24.0	1	24.4	24.0	1	24.4		
		25	25	24.0	1	24.4	24.0	1	24.4		
		50	0	24.1	1	24.4	24.1	1	24.4		

**LTE Band 14 Measured Results (ANT1)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)				Power Mode B (dBm)			
				23330		MPR	Maximum Output Power	23330		MPR	Maximum Output Power
				793 MHz				793 MHz			
10	QPSK	1	0	25.2		0	25.7	24.6		0	25.7
		1	25	25.3		0	25.7	24.7		0	25.7
		1	49	25.2		0	25.7	24.6		0	25.7
		25	0	24.4		1	24.7	24.2		1	24.7
		25	12	24.5		1	24.7	24.3		1	24.7
		25	25	24.4		1	24.7	24.2		1	24.7
		50	0	24.4		1	24.7	24.2		1	24.7

**LTE Band 14 Measured Results (ANT2)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)				Power Mode B (dBm)			
				23330		MPR	Maximum Output Power	23330		MPR	Maximum Output Power
				793 MHz				793 MHz			
10	QPSK	1	0	23.9		0	24.7	24.3		0	24.7
		1	25	24.0		0	24.7	24.5		0	24.7
		1	49	23.9		0	24.7	24.3		0	24.7
		25	0	23.4		1	23.7	23.4		1	23.7
		25	12	23.4		1	23.7	23.4		1	23.7
		25	25	23.4		1	23.7	23.4		1	23.7
		50	0	23.4		1	23.7	23.4		1	23.7

**LTE Band 14 Measured Results (ANT3)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)				Power Mode B (dBm)			
				23330		MPR	Maximum Output Power	23330		MPR	Maximum Output Power
				793 MHz				793 MHz			
10	QPSK	1	0	24.8		0	25.4	24.8		0	25.4
		1	25	24.8		0	25.4	24.8		0	25.4
		1	49	24.8		0	25.4	24.8		0	25.4
		25	0	23.8		1	24.4	23.8		1	24.4
		25	12	23.8		1	24.4	23.8		1	24.4
		25	25	23.8		1	24.4	23.8		1	24.4
		50	0	23.8		1	24.4	23.8		1	24.4

**LTE Band 25 Measured Results (ANT1)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26140	26365	26590	MPR	Maximum Output Power	26140	26365	26590	MPR	Maximum Output Power
				1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20	QPSK	1	0	24.0	24.0	24.0	0	24.5	18.2	17.9	18.0	0	19.4
		1	49	24.1	24.1	24.1	0	24.5	18.3	18.0	18.1	0	19.4
		1	99	24.0	24.0	24.0	0	24.5	18.1	17.9	18.0	0	19.4
		50	0	24.0	24.0	24.1	0	24.5	18.2	18.0	18.0	0	19.4
		50	24	24.1	24.1	24.2	0	24.5	18.3	18.1	18.1	0	19.4
		50	50	24.0	24.0	24.1	0	24.5	18.3	18.0	18.1	0	19.4
		100	0	24.1	24.1	24.1	0	24.5	18.2	18.2	18.1	0	19.4

**LTE Band 25 Measured Results (ANT2)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26140	26365	26590	MPR	Maximum Output Power	26140	26365	26590	MPR	Maximum Output Power
				1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20	QPSK	1	0	19.6	19.7	19.7	0	20.3	19.6	19.7	19.7	0	20.1
		1	49	19.6	19.7	19.7	0	20.3	19.6	19.7	19.7	0	20.1
		1	99	19.6	19.7	19.7	0	20.3	19.6	19.7	19.7	0	20.1
		50	0	19.7	19.7	19.8	0	20.3	19.7	19.7	19.8	0	20.1
		50	24	19.8	19.8	19.8	0	20.3	19.8	19.8	19.8	0	20.1
		50	50	19.7	19.8	19.8	0	20.3	19.7	19.8	19.8	0	20.1
		100	0	19.7	19.8	19.8	0	20.3	19.7	19.8	19.8	0	20.1

**LTE Band 25 Measured Results (ANT3)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26140	26365	26590	MPR	Maximum Output Power	26140	26365	26590	MPR	Maximum Output Power
				1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20	QPSK	1	0	21.2	21.1	21.0	0	21.7	20.3	20.6	20.6	0	21.8
		1	49	21.3	21.1	21.0	0	21.7	20.3	20.6	20.7	0	21.8
		1	99	21.3	21.1	21.0	0	21.7	20.3	20.5	20.6	0	21.8
		50	0	21.3	21.1	21.0	0	21.7	20.4	20.6	20.6	0	21.8
		50	24	21.4	21.2	21.0	0	21.7	20.5	20.6	20.7	0	21.8
		50	50	21.3	21.2	21.0	0	21.7	20.4	20.6	20.7	0	21.8
		100	0	21.3	21.3	21.0	0	21.7	20.5	20.6	20.6	0	21.8

**LTE Band 25 Measured Results (ANT4)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26140	26365	26590	MPR	Maximum Output Power	26140	26365	26590	MPR	Maximum Output Power
				1860 MHz	1882.5 MHz	1905 MHz			1860 MHz	1882.5 MHz	1905 MHz		
20	QPSK	1	0	17.3	17.3	17.4	0	18.3	19.0	18.9	18.8	0	20.0
		1	49	17.3	17.3	17.4	0	18.3	19.0	18.9	18.8	0	20.0
		1	99	17.2	17.3	17.4	0	18.3	19.0	18.8	18.8	0	20.0
		50	0	17.4	17.3	17.6	0	18.3	19.0	19.0	19.0	0	20.0
		50	24	17.4	17.3	17.6	0	18.3	19.1	19.0	19.0	0	20.0
		50	50	17.4	17.4	17.6	0	18.3	19.1	19.0	19.0	0	20.0
		100	0	17.4	17.4	17.4	0	18.3	19.1	19.1	19.1	0	20.0

**LTE Band 26 Measured Results (ANT1)**

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26740	26865	26990	MPR	Maximum Output Power	26740	26865	26990	MPR	Maximum Output Power
				819 MHz	831.5 MHz	844 MHz			819 MHz	831.5 MHz	844 MHz		
10	QPSK	1	0	25.0	25.0	25.1	0	25.7	25.2	25.2	25.2	0	25.7
		1	25	25.1	25.1	25.2	0	25.7	25.3	25.3	25.3	0	25.7
		1	49	25.0	25.0	25.1	0	25.7	25.2	25.2	25.2	0	25.7
		25	0	24.3	24.2	24.3	1	24.7	24.3	24.3	24.3	1	24.7
		25	12	24.4	24.3	24.4	1	24.7	24.4	24.4	24.4	1	24.7
		25	25	24.4	24.3	24.3	1	24.7	24.4	24.3	24.4	1	24.7
		50	0	24.4	24.4	24.3	1	24.7	24.4	24.4	24.3	1	24.7

**LTE Band 26 Measured Results (ANT2)**

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26740	26865	26990	MPR	Maximum Output Power	26740	26865	26990	MPR	Maximum Output Power
				819 MHz	831.5 MHz	844 MHz			819 MHz	831.5 MHz	844 MHz		
10	QPSK	1	0	23.0	23.0	23.0	0	23.8	24.2	24.2	24.2	0	24.7
		1	25	23.0	23.2	23.1	0	23.8	24.2	24.4	24.3	0	24.7
		1	49	23.0	22.9	23.0	0	23.8	24.2	24.1	24.2	0	24.7
		25	0	23.0	22.9	23.0	0.1	23.7	23.2	23.1	23.2	1	23.7
		25	12	23.1	23.0	23.0	0.1	23.7	23.3	23.2	23.3	1	23.7
		25	25	23.1	23.0	23.0	0.1	23.7	23.3	23.2	23.3	1	23.7
		50	0	23.0	23.0	23.0	0.1	23.7	23.3	23.3	23.2	1	23.7

**LTE Band 26 Measured Results (ANT3)**

BW (MHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
				26740	26865	26990	MPR	Maximum Output Power	26740	26865	26990	MPR	Maximum Output Power
				819 MHz	831.5 MHz	844 MHz			819 MHz	831.5 MHz	844 MHz		
10	QPSK	1	0	24.3	24.3	24.4	0	24.5	25.2	25.2	25.3	0	25.4
		1	25	24.3	24.3	24.4	0	24.5	25.2	25.2	25.3	0	25.4
		1	49	24.3	24.3	24.3	0	24.5	25.1	25.1	25.3	0	25.4
		25	0	24.2	24.2	24.3	0	24.5	24.2	24.2	24.3	0.9	24.5
		25	12	24.3	24.2	24.3	0	24.5	24.3	24.2	24.3	0.9	24.5
		25	25	24.3	24.2	24.3	0	24.5	24.2	24.2	24.3	0.9	24.5
		50	0	24.3	24.2	24.2	0	24.5	24.3	24.3	24.3	0.9	24.5

**LTE Band 30 Measured Results (ANT1)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)					Power Mode B (dBm)				
				27710	MPR	Maximum Output Power	27710	MPR	Maximum Output Power				
				2310 MHz			2310 MHz						
10	QPSK	1	0	21.8	0	22.9	0	22.1					
		1	25	21.9	0	22.9	0	22.1					
		1	49	21.7	0	22.9	0	22.1					
		25	0	21.8	0	22.9	0	22.1					
		25	12	21.9	0	22.9	0	22.1					
		25	25	21.8	0	22.9	0	22.1					
		50	0	21.8	0	22.9	0	22.1					

**LTE Band 30 Measured Results (ANT2)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)					Power Mode B (dBm)				
				27710	MPR	Maximum Output Power	27710	MPR	Maximum Output Power				
				2310 MHz			2310 MHz						
10	QPSK	1	0	20.9	0	21.1	0	20.4					
		1	25	21.0	0	21.1	0	20.4					
		1	49	20.9	0	21.1	0	20.4					
		25	0	20.9	0	21.1	0	20.4					
		25	12	20.9	0	21.1	0	20.4					
		25	25	20.9	0	21.1	0	20.4					
		50	0	20.9	0	21.1	0	20.4					

**LTE Band 30 Measured Results (ANT3)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)				Power Mode B (dBm)			
				27710		MPR	Maximum Output Power	27710		MPR	Maximum Output Power
				2310 MHz				2310 MHz			
10	QPSK	1	0	21.1		0	22.0	20.1		0	21.6
		1	25	21.1		0	22.0	20.3		0	21.6
		1	49	21.1		0	22.0	20.3		0	21.6
		25	0	21.2		0	22.0	20.2		0	21.6
		25	12	21.2		0	22.0	20.3		0	21.6
		25	25	21.2		0	22.0	20.3		0	21.6
		50	0	21.2		0	22.0	20.3		0	21.6

**LTE Band 30 Measured Results (ANT4)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)				Power Mode B (dBm)			
				27710		MPR	Maximum Output Power	27710		MPR	Maximum Output Power
				2310 MHz				2310 MHz			
10	QPSK	1	0	16.6		0	18.2	17.9		0	19.0
		1	25	16.7		0	18.2	17.9		0	19.0
		1	49	16.6		0	18.2	17.9		0	19.0
		25	0	16.7		0	18.2	17.9		0	19.0
		25	12	16.7		0	18.2	17.9		0	19.0
		25	25	16.7		0	18.2	17.9		0	19.0
		50	0	16.7		0	18.2	17.9		0	19.0

**LTE Band 41 Power Class 3 Measured Results (ANT1)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)						Power Mode B (dBm)							
				39750	40185	40620	41055	41490	MPR	Maximum Output Power	39750	40185	40620	41055	41490	MPR	Maximum Output Power
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20	QPSK	1	0	25.3	25.2	25.3	25.3	25.3	0	25.7	22.2	21.9	22.0	21.9	22.0	0	22.5
		1	49	25.4	25.3	25.4	25.4	25.4	0	25.7	22.3	22.0	22.1	22.0	22.1	0	22.5
		1	99	25.3	25.3	25.3	25.3	25.3	0	25.7	22.2	21.8	22.0	21.9	22.0	0	22.5
		50	0	24.6	24.5	24.5	24.6	24.6	1	24.7	22.2	21.9	22.0	21.9	22.1	0	22.5
		50	24	24.7	24.6	24.6	24.7	24.7	1	24.7	22.3	22.0	22.1	22.0	22.2	0	22.5
		50	50	24.6	24.5	24.5	24.6	24.6	1	24.7	22.2	21.9	22.0	21.9	22.1	0	22.5
		100	0	24.6	24.6	24.6	24.6	24.6	1	24.7	22.2	21.9	22.2	22.0	22.2	0	22.5

**LTE Band 41 Power Class 3 Measured Results (ANT2)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)					MPR	Maximum Output Power	Power Mode B (dBm)					MPR	Maximum Output Power
				39750	40185	40620	41055	41490			39750	40185	40620	41055	41490		
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz			2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz		
20	QPSK	1	0	19.9	20.4	20.4	20.4	20.3	0	21.0	19.5	19.6	19.9	19.7	19.5	0	20.6
		1	49	19.9	20.4	20.4	20.4	20.3	0	21.0	19.6	19.7	20.0	19.7	19.5	0	20.6
		1	99	19.9	20.4	20.4	20.4	20.4	0	21.0	19.6	19.7	20.0	19.7	19.5	0	20.6
		50	0	19.9	20.4	20.4	20.4	20.4	0	21.0	19.7	19.8	19.9	19.8	19.6	0	20.6
		50	24	19.9	20.4	20.4	20.4	20.4	0	21.0	19.7	19.8	20.0	19.8	19.6	0	20.6
		50	50	19.9	20.4	20.4	20.4	20.4	0	21.0	19.7	19.8	20.0	19.7	19.6	0	20.6
		100	0	19.9	20.4	20.4	20.4	20.4	0	21.0	19.7	19.8	20.0	19.8	19.6	0	20.6

**LTE Band 41 Power Class 3 Measured Results (ANT3)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)						MPR	Maximum Output Power	Power Mode B (dBm)						MPR	Maximum Output Power
				39750	40185	40620	41055	41490	39750			40185	40620	41055	41490				
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz	2506 MHz			2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz				
20	QPSK	1	0	23.6	24.0	24.0	23.9	23.7	0	24.5	21.1	21.1	21.2	21.2	21.1	0	21.2		
		1	49	24.1	24.0	24.0	23.9	23.7	0	24.5	21.1	21.1	21.0	21.2	21.1	0	21.2		
		1	99	24.1	23.9	24.0	23.9	23.7	0	24.5	21.1	21.1	21.0	21.1	21.1	0	21.2		
		50	0	24.0	24.1	24.0	23.9	23.8	0	24.5	21.0	21.1	21.2	21.2	21.1	0	21.2		
		50	24	24.1	24.1	24.0	24.0	23.8	0	24.5	21.1	21.1	21.2	21.0	21.1	0	21.2		
		50	50	24.1	24.0	23.9	23.9	23.8	0	24.5	21.2	21.0	21.0	21.1	21.1	0	21.2		
		100	0	24.1	24.1	24.1	23.9	23.8	0	24.5	21.2	21.1	21.1	21.1	21.0	0	21.2		

**LTE Band 41 Power Class 3 Measured Results (ANT4)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)						MPR	Maximum Output Power	Power Mode B (dBm)						MPR	Maximum Output Power
				39750	40185	40620	41055	41490	39750			40185	40620	41055	41490				
				2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz	2506 MHz			2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz				
20	QPSK	1	0	20.1	20.5	20.2	20.3	20.2	0	20.7	18.8	19.8	19.6	19.7	19.7	0	20.1		
		1	49	20.4	20.5	20.2	20.3	20.2	0	20.7	19.0	19.8	19.6	19.7	19.7	0	20.1		
		1	99	20.3	20.4	20.2	20.3	20.2	0	20.7	19.0	19.7	19.6	19.7	19.7	0	20.1		
		50	0	20.4	20.5	20.3	20.4	20.3	0	20.7	19.0	19.9	19.7	19.8	19.7	0	20.1		
		50	24	20.4	20.6	20.3	20.4	20.3	0	20.7	19.0	19.9	19.7	19.8	19.8	0	20.1		
		50	50	20.4	20.5	20.3	20.3	20.2	0	20.7	19.0	19.8	19.7	19.7	19.7	0	20.1		
		100	0	20.4	20.5	20.5	20.4	20.3	0	20.7	19.0	19.8	19.8	19.8	19.7	0	20.1		

**LTE Band 48 Measured Results (ANT7)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55340	55773	56207	56640	MPR	Maximum Output Power	55340	55773	56207	56640	MPR	Maximum Output Power
				3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz			3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz		
20	QPSK	1	0	23.0	23.0	23.0	22.9	0	23.5	19.3	19.3	19.4	19.3	0	20.3
		1	49	23.1	23.1	23.1	23.0	0	23.5	19.4	19.5	19.5	19.3	0	20.3
		1	99	23.0	23.0	23.0	22.9	0	23.5	19.3	19.4	19.4	19.2	0	20.3
		50	0	23.1	23.1	23.2	23.0	0	23.5	19.3	19.5	19.5	19.3	0	20.3
		50	24	23.2	23.3	23.3	23.1	0	23.5	19.4	19.6	19.6	19.4	0	20.3
		50	50	23.1	23.2	23.2	23.0	0	23.5	19.3	19.5	19.5	19.3	0	20.3
		100	0	23.2	23.2	23.3	23.1	0	23.5	19.5	19.6	19.6	19.3	0	20.3

**LTE Band 48 Measured Results (ANT8)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55340	55773	56207	56640	MPR	Maximum Output Power	55340	55773	56207	56640	MPR	Maximum Output Power
				3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz			3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz		
20	QPSK	1	0	22.2	22.0	22.1	22.0	0	22.2	20.8	20.8	20.8	20.9	0	22.2
		1	49	22.2	22.0	22.1	22.0	0	22.2	20.8	20.8	20.9	20.9	0	22.2
		1	99	22.2	22.2	22.1	22.0	0	22.2	20.8	20.8	20.9	20.9	0	22.2
		50	0	22.1	22.1	22.2	22.1	0	22.2	20.9	20.8	20.8	20.9	0	22.2
		50	24	22.1	22.1	21.9	22.1	0	22.2	21.0	20.8	20.8	20.9	0	22.2
		50	50	22.1	22.1	21.9	22.1	0	22.2	21.0	20.8	20.8	20.8	0	22.2
		100	0	22.1	22.1	21.9	22.1	0	22.2	21.0	20.8	20.9	20.8	0	22.2

**LTE Band 48 Measured Results (ANT9)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55340	55773	56207	56640	MPR	Maximum Output Power	55340	55773	56207	56640	MPR	Maximum Output Power
				3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz			3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz		
20	QPSK	1	0	20.7	20.7	20.7	20.7	0	21.6	19.7	19.9	19.9	19.9	0	20.6
		1	49	20.7	20.7	20.7	20.7	0	21.6	19.8	20.0	20.0	20.0	0	20.6
		1	99	20.6	20.7	20.7	20.6	0	21.6	19.8	20.0	20.0	19.9	0	20.6
		50	0	20.7	20.8	20.8	20.8	0	21.6	19.8	20.0	20.0	19.9	0	20.6
		50	24	20.8	20.8	20.8	20.9	0	21.6	19.9	20.1	20.0	20.0	0	20.6
		50	50	20.8	20.8	20.8	20.8	0	21.6	19.9	20.1	20.0	20.0	0	20.6
		100	0	20.8	20.8	20.8	20.8	0	21.6	19.9	20.0	20.0	20.0	0	20.6

**LTE Band 48 Measured Results (ANT4)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)						Power Mode B (dBm)					
				55340	55773	56207	56640	MPR	Maximum Output Power	55340	55773	56207	56640	MPR	Maximum Output Power
				3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz			3560 MHz	3603.3 MHz	3646.7 MHz	3690 MHz		
20	QPSK	1	0	20.1	20.2	20.2	20.3	0	21.5	19.9	20.1	20.2	20.1	0	20.7
		1	49	20.2	20.3	20.2	20.3	0	21.5	20.0	20.1	20.2	20.1	0	20.7
		1	99	20.2	20.2	20.2	20.2	0	21.5	20.0	20.1	20.2	20.0	0	20.7
		50	0	20.3	20.4	20.3	20.3	0	21.5	20.0	20.2	20.3	20.2	0	20.7
		50	24	20.3	20.4	20.3	20.4	0	21.5	20.1	20.3	20.3	20.2	0	20.7
		50	50	20.4	20.4	20.3	20.4	0	21.5	20.1	20.3	20.3	20.2	0	20.7
		100	0	20.4	20.4	20.4	20.4	0	21.5	20.1	20.3	20.3	20.2	0	20.7

**LTE Band 53 Measured Results (ANT1)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)				Power Mode B (dBm)			
				60197	MPR	Maximum Output Power	60197	MPR	Maximum Output Power		
				2489.2 MHz			2489.2 MHz				
10	QPSK	1	0	20.4	0	20.7	20.4	0	20.7		
		1	25	20.5	0	20.7	20.5	0	20.7		
		1	49	20.4	0	20.7	20.4	0	20.7		
		25	0	20.4	0	20.7	20.4	0	20.7		
		25	12	20.5	0	20.7	20.5	0	20.7		
		25	25	20.5	0	20.7	20.5	0	20.7		
		50	0	20.4	0	20.7	20.4	0	20.7		

**LTE Band 53 Measured Results (ANT2)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)				Power Mode B (dBm)			
				60197	MPR	Maximum Output Power	60197	MPR	Maximum Output Power		
				2489.2 MHz			2489.2 MHz				
10	QPSK	1	0	20.5	0	20.7	19.8	0	20.1		
		1	25	20.6	0	20.7	19.8	0	20.1		
		1	49	20.6	0	20.7	19.8	0	20.1		
		25	0	20.5	0	20.7	19.8	0	20.1		
		25	12	20.6	0	20.7	19.9	0	20.1		
		25	25	20.6	0	20.7	19.9	0	20.1		
		50	0	20.5	0	20.7	19.8	0	20.1		



**LTE Band 66 Measured Results (ANT1)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132072	132322	132572	MPR	Maximum Output Power	132072	132322	132572	MPR	Maximum Output Power
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20	QPSK	1	0	23.4	23.4	23.2	0	24.2	17.8	17.7	17.7	0	19.1
		1	49	23.5	23.5	23.3	0	24.2	17.8	17.7	17.8	0	19.1
		1	99	23.5	23.5	23.2	0	24.2	17.8	17.7	17.7	0	19.1
		50	0	23.4	23.4	23.4	0	24.2	17.8	17.7	17.6	0	19.1
		50	24	23.5	23.4	23.4	0	24.2	17.8	17.9	17.7	0	19.1
		50	50	23.5	23.4	23.3	0	24.2	17.8	17.8	17.6	0	19.1
100	0	23.4	23.4	23.3	0	24.2	17.7	17.7	17.6	0	19.1		

**LTE Band 66 Measured Results (ANT2)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132072	132322	132572	MPR	Maximum Output Power	132072	132322	132572	MPR	Maximum Output Power
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20	QPSK	1	0	19.0	19.1	19.0	0	19.8	19.1	19.2	19.0	0	19.8
		1	49	19.0	19.1	19.0	0	19.8	19.1	19.2	19.0	0	19.8
		1	99	19.0	19.0	18.9	0	19.8	19.1	19.1	18.9	0	19.8
		50	0	19.1	19.1	19.1	0	19.8	19.2	19.2	19.1	0	19.8
		50	24	19.1	19.1	19.1	0	19.8	19.2	19.2	19.1	0	19.8
		50	50	19.1	19.0	19.1	0	19.8	19.2	19.1	19.1	0	19.8
100	0	19.1	19.1	19.1	0	19.8	19.2	19.2	19.1	0	19.8		

**LTE Band 66 Measured Results (ANT3)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132072	132322	132572	MPR	Maximum Output Power	132072	132322	132572	MPR	Maximum Output Power
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20	QPSK	1	0	21.1	21.1	21.1	0	21.6	20.9	20.9	20.8	0	22.4
		1	49	21.2	21.2	21.2	0	21.6	20.9	20.9	20.8	0	22.4
		1	99	21.0	21.1	20.9	0	21.6	20.9	20.9	20.8	0	22.4
		50	0	21.1	21.1	21.0	0	21.6	20.9	20.9	20.8	0	22.4
		50	24	21.2	21.2	21.1	0	21.6	20.9	21.0	20.9	0	22.4
		50	50	21.1	21.1	21.1	0	21.6	21.0	21.0	20.9	0	22.4
100	0	21.1	21.2	21.0	0	21.6	20.9	21.0	20.8	0	22.4		

**LTE Band 66 Measured Results (ANT4)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)					Power Mode B (dBm)				
				132072	132322	132572	MPR	Maximum Output Power	132072	132322	132572	MPR	Maximum Output Power
				1720 MHz	1745 MHz	1770 MHz			1720 MHz	1745 MHz	1770 MHz		
20	QPSK	1	0	18.3	18.4	18.2	0	19.1	20.5	20.5	20.4	0	20.7
		1	49	18.5	18.4	18.2	0	19.1	20.7	20.5	20.5	0	20.7
		1	99	18.5	18.2	18.1	0	19.1	20.7	20.5	20.4	0	20.7
		50	0	18.4	18.3	18.5	0	19.1	20.5	20.6	20.5	0	20.7
		50	24	18.4	18.3	18.5	0	19.1	20.5	20.6	20.6	0	20.7
		50	50	18.2	18.0	18.4	0	19.1	20.5	20.4	20.6	0	20.7
100	0	18.1	18.5	18.3	0	19.1	20.5	20.5	20.5	0	20.7		

**LTE Band 71 Measured Results (ANT1)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)					Power Mode B (dBm)				
				133297	MPR	Maximum Output Power	133297	MPR	Maximum Output Power				
				680.5 MHz			680.5 MHz						
20	QPSK	1	0	24.9	0	25.7	0	25.7	25.1	0	25.7		
		1	49	25.0	0	25.7	0	25.7	25.2	0	25.7		
		1	99	24.9	0	25.7	0	25.7	25.2	0	25.7		
		50	0	24.2	1	24.7	1	24.7	24.3	1	24.7		
		50	24	24.2	1	24.7	1	24.7	24.3	1	24.7		
		50	50	24.2	1	24.7	1	24.7	24.2	1	24.7		
100	0	24.2	1	24.7	1	24.7	24.2	1	24.7				

**LTE Band 71 Measured Results (ANT2)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)					Power Mode B (dBm)				
				133297	MPR	Maximum Output Power	133297	MPR	Maximum Output Power				
				680.5 MHz			680.5 MHz						
20	QPSK	1	0	24.1	0	24.7	0	24.7	24.1	0	24.7		
		1	49	24.1	0	24.7	0	24.7	24.1	0	24.7		
		1	99	24.0	0	24.7	0	24.7	24.0	0	24.7		
		50	0	23.2	1	23.7	1	23.7	23.2	1	23.7		
		50	24	23.2	1	23.7	1	23.7	23.2	1	23.7		
		50	50	23.2	1	23.7	1	23.7	23.2	1	23.7		
100	0	23.2	1	23.7	1	23.7	23.2	1	23.7				

**LTE Band 71 Measured Results (ANT3)**

BW (MHz)	Mode	RB Allocation	RB Offset	Power Mode A (dBm)				Power Mode B (dBm)			
				133297	680.5 MHz	MPR	Maximum Output Power	133297	680.5 MHz	MPR	Maximum Output Power
20	QPSK	1	0			0	25.4			0	25.4
		1	49			0	25.4			0	25.4
		1	99			0	25.4			0	25.4
		50	0			1	24.4			1	24.4
		50	24			1	24.4			1	24.4
		50	50			1	24.4			1	24.4
		100	0			1	24.4			1	24.4
		100	0			1	24.4			1	24.4

## 9.4. LTE Up-Link Carrier Aggregation

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS36.101 specification.

For inter-band carrier aggregation with uplink assigned to one E-UTRA band (Table 5.6A-1), the requirements in subclause 6.2.3 apply.

For inter-band carrier aggregation with one component carrier per operating band and the uplink active in two E-UTRA bands, the requirements in subclause 6.2.3 apply for each uplink component carrier.

For intra-band contiguous carrier aggregation, the allowed Maximum Power Reduction (MPR) for the maximum output power applicable to the DUT in table below. In case the modulation format is different on different component carriers then the MPR is determined by the rules applied to higher order of those modulations.

Modulation	CA bandwidth Class B and C / Smallest Component Carrier Transmission Bandwidth Configuration				MPR (dB)
	25 RB	50 RB	75 RB	100 RB	
QPSK	> 8 and ≤ 25	> 12 and ≤ 50	> 16 and ≤ 75	> 18 and ≤ 100	≤ 1
QPSK	> 25	> 50	> 75	> 100	≤ 2
16 QAM	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 8 and ≤ 25	> 12 and ≤ 50	> 16 and ≤ 75	> 18 and ≤ 100	≤ 2
16 QAM	> 25	> 50	> 75	> 100	≤ 3
64 QAM	≤ 8 and allocation wholly contained within a single CC	≤ 12 and allocation wholly contained within a single CC	≤ 16 and allocation wholly contained within a single CC	≤ 18 and allocation wholly contained within a single CC	≤ 2
64 QAM	> 8 or allocation extends across two CC's	> 12 or allocation extends across two CC's	> 16 or allocation extends across two CC's	> 18 or allocation extends across two CC's	≤ 3

For PUCCH and SRS transmissions, the allowed MPR is according to that specified for PUSCH WPKD modulation for the corresponding transmission bandwidth.

For intra-band contiguous carrier aggregation bandwidth class C with non-contiguous resource allocation, the allowed Maximum Power Reduction (MPR) for the maximum output power in Table 6.2.2A-1 is specified as follows

$$MPR = \text{CEIL} \{ \min(M_A, M_{IM5}), 0.5 \}$$

Where  $M_A$  is defined as follows

$$M_A = \begin{cases} 8.2 & ; 0 \leq A < 0.025 \\ 9.2 - 40A & ; 0.025 \leq A < 0.05 \\ 8 - 16A & ; 0.05 \leq A < 0.25 \\ 4.83 - 3.33A & ; 0.25 \leq A \leq 0.4 \end{cases}$$

$$3.83 - 0.83A \quad ; 0.4 \leq A \leq 1$$

and  $M_{IM5}$  is defined as follows

$$M_{IM5} = \begin{array}{ll} 4.5 & ; \Delta_{IM5} < 1.5 * BW_{Channel\_CA} \\ 6.0 & ; 1.5 * BW_{Channel\_CA} \leq \Delta_{IM5} < BW_{Channel\_CA}/2 + \Delta f_{ooB} \\ M_A & ; \Delta_{IM5} \geq BW_{Channel\_CA}/2 + \Delta f_{ooB} \end{array}$$

Where

$$A = N_{RB\_alloc} / N_{RB\_agg}$$

$$\Delta_{IM5} = \max(|F_{C\_agg} - (3 * F_{agg\_alloc\_low} - 2 * F_{agg\_alloc\_high})|, |F_{C\_agg} - (3 * F_{agg\_alloc\_high} - 2 * F_{agg\_alloc\_low})|)$$

$CEIL\{M_A, 0.5\}$  means rounding upwards to closest 0.5dB, i.e.  $MPR \in [3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5]$

For intra-band carrier aggregation, the MPR is evaluated per slot and given by the maximum value taken over the transmission(s) on all component carriers within the slot; the maximum MPR over the two slots is then applied for the entire subframe.

For intra-band non-contiguous carrier aggregation with one uplink carrier on the PCC, the requirements in the subclause 6.2.3 apply. For intra-band non-contiguous aggregation with two uplink carriers the MPR is defined for those E-UTRA bands where maximum possible  $W_{GAP} \leq 42.2$  MHz as follows

$$MPR = CEIL\{M_A, 0.5\}$$

Where  $M_N$  is defined as follows

$$M_N = \begin{array}{ll} -0.125N + 18.25 & ; 2 \leq N \leq 50 \\ -0.0333 N + 13.67 & ; 50 < N \leq 200 \end{array}$$

Where  $N = N_{RB\_alloc}$  is the number of allocated resource blocks.

For the UE maximum output power modified by MPR, the power limits specified in subclause 6.2.5A apply.

**LTE Intra-Band Contiguous Carrier Aggregation**

UL CA shall be tested based on the worst-case SAR configuration determined from non-CA SAR testing result. The channel BW, channel number, RB allocation, etc. would be selected to allow contiguous CA of PCC and SCC. Uplink output power for UL CA is the total power measured across the PCC and SCC.

UL CA power measurements were performed for each antenna at with QPSK modulation based on the worst-case standalone SAR.

The UL CA mode power measurements represent the total power across both carriers. Measurements were made for all supported PCC bandwidths using the channel/RB combination resulting in the highest standalone output power at the least MPR (0 dB). SCCs were set to use configurations similar to the PCC to establish conservative or worst-case equivalent SAR test conditions (highest maximum output power with MPR of 0 dB and RB allocation setting).

The standalone power measurement is the power for the PCC in the non-CA mode (i.e. single carrier power). In all cases the UL CA power is less than or equal to the standalone power, which is in accordance with the tune-up limits in table below.

According to April 2015 TCB workshop, SAR test exclusion can be applied for testing overlapping LTE bands as follows:

- a) The maximum output power, including tolerance, for the smaller band must be ≤ the larger band to qualify for the SAR test exclusion.
- b) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.

According to November 2017 TCB workshop, Uplink CA SAR Test Guidance as follows:

- a) When the maximum output power for UL CA is ≤ standalone LTE mode (without CA)
  - PCC is configured according to the highest standalone SAR configuration tested
  - SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC
- b) When the Reported SAR for UL CA configuration, described above, is > 1.2 W/kg, UL CA SAR is also required for all required test channels (PCC based)
- c) UL CA SAR is also required for standalone SAR configurations > 1.2 W/kg when they are scaled to the UL CA power level

**Maximum Output Power for LTE UL Carrier Aggregation**

Intra-Band Contiguous	Mode	Target Output Power (dBm)								Maximum Output Power (dBm)							
		ANT1		ANT2		ANT3		ANT4		ANT1		ANT2		ANT3		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
CA_5B	QPSK	25.0	25.0	23.1	24.0	23.8	24.7			25.7	25.7	23.8	24.7	24.5	25.4		
CA_7C	QPSK	23.3	19.6	18.4	16.8	21.8	19.0	18.2	18.3	24.0	20.3	19.1	17.5	22.5	19.7	18.9	19.0
CA_41C (PC3)	QPSK	24.7	21.5	20.0	19.6	23.5	20.2	19.7	19.1	25.7	22.5	21.0	20.6	24.5	21.2	20.7	20.1
CA_41C (PC2)	QPSK	26.4	23.1	21.6	21.2	25.1	21.8	21.3	20.7	27.4	24.1	22.6	22.2	26.1	22.8	22.3	21.7
Intra-Band Contiguous	Mode	Target Output Power (dBm)								Maximum Output Power (dBm)							
		ANT7		ANT8		ANT9		ANT4		ANT7		ANT8		ANT9		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
CA_48C	QPSK	22.5	19.3	21.2	21.2	20.6	19.6	20.5	19.7	23.5	20.3	22.2	22.2	21.6	20.6	21.5	20.7

**LTE CA 5B Measured Results**

UL CA Combination	Antenna	Power Mode	Modulation	PCC				SCC				Standalone Power		(PCC + SCC) UL CA Power		
				BW (MHz)	Freq	RB	Offset	BW (MHz)	Freq	RB	Offset	Maximum Output Power (dBm)	UL CA Inactive (dBm)	Maximum Output Power (dBm)	UL CA active (dBm)	Delta
CA_5B	ANT 1	Mode A	QPSK	10	831.6	1	49	10	841.5	1	0	25.7	24.2	25.7	24.2	0.0
CA_5B	ANT 1	Mode B	QPSK	10	831.6	1	49	10	841.5	1	0	25.7	24.1	25.7	24.3	0.2
CA_5B	ANT 2	Mode A	QPSK	10	831.6	1	49	10	841.5	1	0	23.8	23.0	23.8	23.2	0.2
CA_5B	ANT 2	Mode B	QPSK	10	831.6	1	49	10	841.5	1	0	24.7	23.2	24.7	23.2	0.0
CA_5B	ANT 3	Mode A	QPSK	10	831.6	1	49	10	841.5	1	0	24.5	23.9	24.5	23.8	-0.1
CA_5B	ANT 3	Mode B	QPSK	10	831.6	1	49	10	841.5	1	0	25.4	24.7	25.4	24.7	0.0

**Note(s):**

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.

**LTE CA 7C Measured Results**

UL CA Combination	Antenna	Power Mode	Modulation	PCC				SCC				Standalone Power		(PCC + SCC) UL CA Power		
				BW (MHz)	Freq	RB	Offset	BW (MHz)	Freq	RB	Offset	Maximum Output Power (dBm)	UL CA Inactive (dBm)	Maximum Output Power (dBm)	UL CA active (dBm)	Delta
CA_7C	ANT 1	Mode A	QPSK	20	2525.1	1	99	20	2544.9	1	0	24.0	23.4	24.0	23.4	0.0
CA_7C	ANT 1	Mode B	QPSK	20	2525.1	1	99	20	2544.9	1	0	20.3	19.6	20.3	19.7	0.1
CA_7C	ANT 1	Mode B	QPSK	20	2540.2	1	99	20	2560.0	1	0	20.3	19.6	20.3	19.5	-0.1
CA_7C	ANT 2	Mode A	QPSK	20	2510.0	1	99	20	2529.8	1	0	19.1	17.7	19.1	17.5	-0.2
CA_7C	ANT 2	Mode B	QPSK	20	2540.2	1	99	20	2560.0	1	0	17.5	15.5	17.5	15.6	0.1
CA_7C	ANT 3	Mode A	QPSK	20	2525.1	1	99	20	2544.9	1	0	22.5	22.4	22.5	22.4	0.0
CA_7C	ANT 3	Mode B	QPSK	20	2525.1	1	99	20	2544.9	1	0	19.7	18.9	19.7	18.8	-0.1
CA_7C	ANT 3	Mode B	QPSK	20	2510	1	99	20	2529.8	1	0	19.7	18.9	19.7	18.8	-0.1
CA_7C	ANT 4	Mode A	QPSK	20	2525.1	1	99	20	2544.9	1	0	18.9	17.3	18.9	17.4	0.1
CA_7C	ANT 4	Mode B	QPSK	20	2525.1	1	99	20	2544.9	1	0	19.0	17.4	19.0	17.3	-0.1

**Note(s):**

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.

**LTE CA 41C (PC3) Measured Results**

UL CA Combination	Antenna	Power Mode	Modulation	PCC				SCC				Standalone Power		(PCC + SCC) UL CA Power		
				BW (MHz)	Freq	RB	Offset	BW (MHz)	Freq	RB	Offset	Maximum Output Power (dBm)	UL CA Inactive (dBm)	Maximum Output Power (dBm)	UL CA active (dBm)	Delta
CA_41C	ANT 1	Mode A	QPSK	20	2583.1	1	99	20	2602.9	1	0	25.7	25.1	25.7	25.0	-0.1
CA_41C	ANT 1	Mode B	QPSK	20	2660.2	1	99	20	2680.0	1	0	22.5	21.9	22.5	21.8	-0.1
CA_41C	ANT 2	Mode A	QPSK	20	2583.1	1	99	20	2602.9	1	0	21.0	20.4	21.0	20.5	0.1
CA_41C	ANT 2	Mode B	QPSK	20	2660.2	1	99	20	2680.0	1	0	20.6	19.9	20.6	19.7	-0.2
CA_41C	ANT 3	Mode A	QPSK	20	2583.1	1	99	20	2602.9	1	0	24.5	24.3	24.5	24.1	-0.2
CA_41C	ANT 3	Mode B	QPSK	20	2583.1	1	99	20	2602.9	1	0	21.2	21.1	21.2	20.9	-0.2
CA_41C	ANT 4	Mode A	QPSK	20	2506.0	1	99	20	2525.8	1	0	20.7	20.5	20.7	20.3	-0.2
CA_41C	ANT 4	Mode B	QPSK	20	2583.1	1	99	20	2602.9	1	0	20.1	20.1	20.1	20.0	-0.1
CA_41C	ANT 4	Mode B	QPSK	20	2506.0	1	99	20	2525.8	1	0	20.1	19.9	20.1	20.1	0.2

**Note(s):**

1. PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.
2. Additional SAR for UL CA PC2 is not required. Test reduction has been applied based on standalone SAR.
3. SAR evaluation for PC2 is only required when its Maximum output power is higher from PC3.

**LTE CA 48C Measured Results**

UL CA Combination	Antenna	Power Mode	Modulation	PCC				SCC				Standalone Power		(PCC + SCC) UL CA Power		
				BW (MHz)	Freq	RB	Offset	BW (MHz)	Freq	RB	Offset	Maximum Output Power (dBm)	UL CA Inactive (dBm)	Maximum Output Power (dBm)	UL CA active (dBm)	Delta
CA_48C	ANT 7	Mode A	QPSK	20	3615.1	1	99	20	3634.9	1	0	23.5	22.3	23.5	22.0	-0.3
CA_48C	ANT 7	Mode B	QPSK	20	3615.1	1	99	20	3634.9	1	0	20.3	19.0	20.3	19.1	0.1
CA_48C	ANT 8	Mode A	QPSK	20	3670.2	1	99	20	3690.0	1	0	22.2	21.9	22.2	22.0	0.1
CA_48C	ANT 8	Mode B	QPSK	20	3670.2	1	99	20	3690.0	1	0	22.2	20.8	22.2	20.9	0.1
CA_48C	ANT 9	Mode A	QPSK	20	3615.1	1	99	20	3634.9	1	0	21.6	20.4	21.6	20.1	-0.3
CA_48C	ANT 9	Mode B	QPSK	20	3670.2	1	99	20	3690.0	1	0	20.6	19.8	20.6	19.9	0.1
CA_48C	ANT 4	Mode A	QPSK	20	3670.2	1	99	20	3690.0	1	0	21.5	20.3	21.5	20.4	0.1
CA_48C	ANT 4	Mode B	QPSK	20	3615.1	1	99	20	3634.9	1	0	20.7	20.1	20.7	19.8	-0.3
CA_48C	ANT 4	Mode B	QPSK	20	3560.0	1	99	20	3579.8	1	0	20.7	20.1	20.7	20.1	0.0

**Note(s):**

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.

**LTE Inter-Band Carrier Aggregation**

According to October 2018 TCB workshop, Uplink CA SAR Test Guidance as follows:

- Provide the single uplink SAR values you have obtained for the relevant SAR configurations and frequency bands that employ inter-band uplink carrier aggregation.
- If the single uplink 1-g SAR values for each band are both less than 0.8 W/kg and the algebraic summation of the 1-g SAR values are less than 1.45 W/kg no additional measurements need to be performed.
- If one of the single uplink 1-g SAR values is greater than 0.8 W/kg, instead of algebraically summing the 1-g SAR values, sum up the SAR distributions, similar to the enlarged zoom scan (volume scan) procedures found in FCC KDB Publication 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04.
- If the algebraic sum of the 1-g SAR values is > 1.45 W/kg additional measurements may have to be made. Submit a KDB inquiry for additional guidance.

**Maximum Output Power and SAR test exemption for LTE UL Carrier Aggregation**

The maximum UL CA transmit power is reduced by 3dB from the standalone values for both carriers therefore SAR will be reduced accordingly.

The reported 1g SAR for any standalone LTE configuration does not exceed 1.2 W/kg. The worst case UL CA SAR per band will therefore be <0.6W/kg. As the SAR for each individual band is <0.6 W/kg and the algebraic summation cannot exceed 1.2 W/kg no further measurements are needed.

The combined SAR contribution cannot exceed the highest standalone SAR:

$$(SAR_{LTE1/2} + SAR_{LTE2/2} \leq \text{Max} (SAR_{LTE1}, SAR_{LTE2}))$$

therefore, simultaneous transmission analysis of UL-CA and WLAN/BT transmitters can be done using either of the standalone LTE SAR values alone.

**9.5. LTE Down-Link Carrier Aggregation**

This device supports LTE downlink carrier aggregation (CA). Refer to Appendix G §G.4 for supported DL Inter-band and DL Intra-band carrier aggregation combinations.

## 9.6. 5G NR(FR1)

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP TS 138.521-1 specification.

UE Power Class: 3 (23 +/- 2dBm). The allowed Maximum Power Reduction (MPR) for the maximum output power due to higher order modulation and transmit bandwidth configuration (resource blocks) is specified in Table 6.2.3-1 of the 3GPP TS138.521-1.

**Table 6.2.2.3-1: Maximum Power Reduction (MPR) for Power 3**

Modulation	MPR (dB)		
	Edge RB allocations	Outer RB allocations	Inner RB allocations
DFT-s-OFDM PI/2 BPSK	$\leq 3.5^1$	$\leq 1.2^1$	$\leq 0.2^1$
DFT-s-OFDM QPSK	$\leq 0.5^2$		$0^2$
DFT-s-OFDM 16 QAM	$\leq 1$		0
DFT-s-OFDM 64 QAM	$\leq 2$		$\leq 1$
DFT-s-OFDM 256 QAM		$\leq 2.5$	
CP-OFDM QPSK		$\leq 4.5$	
CP-OFDM 16 QAM	$\leq 3$		$\leq 1.5$
CP-OFDM 64 QAM	$\leq 3$		$\leq 2$
CP-OFDM 256 QAM		$\leq 3.5$	
		$\leq 6.5$	

NOTE 1: Applicable for UE operating in TDD mode with PI/2 BPSK modulation and UE indicates support for UE capability *powerBoosting-pi2BPSK* and if the IE *powerBoostPi2BPSK* is set to 1 and 40 % or less slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79. The reference power of 0dB MPR is 26dBm.

NOTE 2: Applicable for UE operating in FDD mode, or in TDD mode in bands other than n40, n41, n77, n78 and n79 and if the IE *powerBoostPi2BPSK* is set to 0 and if more than 40% of slots in radio frame are used for UL transmission for bands n40, n41, n77, n78 and n79.

The allowed A-MPR values specified below in Table 6.2.3.3.1-1 of 3GPP TS138.521-1 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS\_01"

**Table 6.2.3.3.1-1: Additional maximum power reduction (A-MPR)**

Network Signalling label	Requirements (subclause)	NR Band	Channel bandwidth (MHz)	Resources Blocks ( $N_{RB}$ )	A-MPR (dB)
NS_01		Table 5.2-1	5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 90, 100	Table 5.3.2-1	N/A



Uplink RB allocations were used to Table 6.1-1 of the 3GPP TS 138.521-1.

Channel Bandwidth	SCS(kHz)	OFDM	RB allocation							
			Edge_Full_Left	Edge_Full_Right	Edge_1RB_Left	Edge_1RB_Right	Outer_Full	Inner_Full	Inner_1RB_Left	Inner_1RB_Right
5MHz	15	DFT-s	2@0	2@23	1@0	1@24	25@0	12@6	1@1	1@23
		CP	2@0	2@23	1@0	1@24	25@0	13@6	1@1	1@23
	30	DFT-s	2@0	2@9	1@0	1@10	10@0	5@2 <sup>1</sup>	1@1	1@9
		CP	2@0	2@9	1@0	1@10	11@0	5@2 <sup>1</sup>	1@1	1@9
	60	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10MHz	15	DFT-s	2@0	2@50	1@0	1@51	50@0	25@12	1@1	1@50
		CP	2@0	2@50	1@0	1@51	52@0	26@13	1@1	1@50
	30	DFT-s	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
		CP	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
	60	DFT-s	2@0	2@9	1@0	1@10	10@0	5@2 <sup>1</sup>	1@1	1@9
		CP	2@0	2@9	1@0	1@10	11@0	5@2 <sup>1</sup>	1@1	1@9
15MHz	15	DFT-s	2@0	2@77	1@0	1@78	75@0	36@18	1@1	1@77
		CP	2@0	2@77	1@0	1@78	79@0	39@19 <sup>1</sup>	1@1	1@77
	30	DFT-s	2@0	2@36	1@0	1@37	36@0	18@9	1@1	1@36
		CP	2@0	2@36	1@0	1@37	38@0	19@9	1@1	1@36
	60	DFT-s	2@0	2@16	1@0	1@17	18@0	9@4	1@1	1@16
		CP	2@0	2@16	1@0	1@17	18@0	9@4	1@1	1@16
20MHz	15	DFT-s	2@0	2@104	1@0	1@105	100@0	50@25	1@1	1@104
		CP	2@0	2@104	1@0	1@105	106@0	53@26	1@1	1@104
	30	DFT-s	2@0	2@49	1@0	1@50	50@0	25@12	1@1	1@49
		CP	2@0	2@49	1@0	1@50	51@0	25@12 <sup>1</sup>	1@1	1@49
	60	DFT-s	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
		CP	2@0	2@22	1@0	1@23	24@0	12@6	1@1	1@22
25MHz	15	DFT-s	2@0	2@131	1@0	1@132	128@0	64@32	1@1	1@131
		CP	2@0	2@131	1@0	1@132	133@0	67@33	1@1	1@131
	30	DFT-s	2@0	2@63	1@0	1@64	64@0	32@16	1@1	1@63
		CP	2@0	2@63	1@0	1@64	65@0	33@16	1@1	1@63
	60	DFT-s	2@0	2@29	1@0	1@30	30@0	15@7 <sup>1</sup>	1@1	1@29
		CP	2@0	2@29	1@0	1@30	31@0	15@7 <sup>1</sup>	1@1	1@29
30MHz	15	DFT-s	2@0	2@158	1@0	1@159	160@0	80@40	1@1	1@158
		CP	2@0	2@158	1@0	1@159	160@0	80@40	1@1	1@158
	30	DFT-s	2@0	2@78	1@0	1@77	75@0	36@18	1@1	1@78
		CP	2@0	2@78	1@0	1@77	78@0	39@19	1@1	1@78
	60	DFT-s	2@0	2@36	1@0	1@37	36@0	18@9	1@1	1@36
		CP	2@0	2@36	1@0	1@37	38@0	19@9	1@1	1@36
40MHz	15	DFT-s	2@0	2@214	1@0	1@215	216@0	108@54	1@1	1@214
		CP	2@0	2@214	1@0	1@215	216@0	108@54	1@1	1@214
	30	DFT-s	2@0	2@104	1@0	1@105	100@0	50@25	1@1	1@104
		CP	2@0	2@104	1@0	1@105	106@0	53@26	1@1	1@104
	60	DFT-s	2@0	2@49	1@0	1@50	50@0	25@12	1@1	1@49
		CP	2@0	2@49	1@0	1@50	51@0	25@12 <sup>1</sup>	1@1	1@49
50MHz	15	DFT-s	2@0	2@268	1@0	1@269	270@0	135@67	1@1	1@268
		CP	2@0	2@268	1@0	1@269	270@0	135@67	1@1	1@268
	30	DFT-s	2@0	2@131	1@0	1@132	128@0	64@32	1@1	1@131
		CP	2@0	2@131	1@0	1@132	133@0	67@33	1@1	1@131
	60	DFT-s	2@0	2@63	1@0	1@64	64@0	32@16	1@1	1@63
		CP	2@0	2@63	1@0	1@64	65@0	33@16	1@1	1@63
60MHz	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	DFT-s	2@0	2@160	1@0	1@161	162@0	81@40	1@1	1@160
		CP	2@0	2@160	1@0	1@161	162@0	81@40	1@1	1@160
	60	DFT-s	2@0	2@77	1@0	1@78	75@0	36@18	1@1	1@77
		CP	2@0	2@77	1@0	1@78	79@0	39@19 <sup>1</sup>	1@1	1@77
80MHz	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
90MHz	30	DFT-s	2@0	2@215	1@0	1@216	216@0	108@54	1@1	1@215
		CP	2@0	2@215	1@0	1@216	217@0	109@54	1@1	1@215
	60	DFT-s	2@0	2@105	1@0	1@106	100@0	50@25	1@1	1@105
		CP	2@0	2@105	1@0	1@106	107@0	53@26 <sup>1</sup>	1@1	1@105
	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30	DFT-s	2@0	2@243	1@0	1@244	240@0	120@60	1@1	1@243	
	CP	2@0	2@243	1@0	1@244	245@0	123@61	1@1	1@243	
60	DFT-s	2@0	2@119	1@0	1@120	120@0	60@30	1@1	1@119	
	CP	2@0	2@119	1@0	1@120	121@0	61@30	1@1	1@119	
100MHz	15	DFT-s	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CP	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	30	DFT-s	2@0	2@271	1@0	1@272	270@0	135@67	1@1	1@271
		CP	2@0	2@271	1@0	1@272	273@0	137@68	1@1	1@271
	60	DFT-s	2@0	2@133	1@0	1@134	135@0	64@32	1@1	1@133
		CP	2@0	2@133	1@0	1@134	135@0	67@33 <sup>1</sup>	1@1	1@133

Note 1: The allocated RB number  $Low$  is  $cell(N_{RB}/2) - 1$  in order to meet Inner RB allocation definition ( $RB_{start,Low} \leq RB_{start} \leq RB_{start,High}$ ) described in subclause 6.2.2 of TS 38.101-1 [2].

**Maximum Output Power for 5G NR (FR1)**

According to April 2015 TCB workshop, SAR test exclusion can be applied for testing overlapping 5G NR(FR1) bands as follows:

- c) The maximum output power, including tolerance, for the smaller band must be ≤ the larger band to qualify for the SAR test exclusion.
  - d) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.
- NR Band n2 (1850-1910 MHz) is covered by NR Band n25 (1850-1915 MHz)

Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 SAR for LTE Devices.

SAR measurement is not required for the Pi/2 BPSK, 16QAM, 64QAM and 256QAM. When the highest maximum output power for Pi/2 BPSK, 16QAM, 64QAM and 256QAM is ≤ ½ dB higher than the QPSK or when the reported SAR for the QPSK configuration is ≤ 1.45 W/kg.

Please refer to section 6.5. for 5G NR(FR1) detail test channels.

RF Air interface	Mode	Target Output Power (dBm)								Maximum Output Power (Tune-up Limit) (dBm)							
		ANT1		ANT2		ANT3		ANT4		ANT1		ANT2		ANT3		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
NR n2	QPSK	23.8	18.7	19.6	19.4	21.0	21.1	17.6	19.3	24.5	19.4	20.3	20.1	21.7	21.8	18.3	20.0
NR n5	QPSK	25.0	25.0	23.1	24.0	23.8	24.7			25.7	25.7	23.8	24.7	24.5	25.4		
NR n7	QPSK	23.3	19.6	18.4	16.8	21.8	19.0	18.2	18.3	24.0	20.3	19.1	17.5	22.5	19.7	18.9	19.0
NR n12	QPSK	25.0	25.0	24.0	24.0	24.7	24.7			25.7	25.7	24.7	24.7	25.4	25.4		
NR n14	QPSK	25.0	25.0	24.0	24.0	24.7	24.7			25.7	25.7	24.7	24.7	25.4	25.4		
NR n25	QPSK	23.8	18.7	19.6	19.4	21.0	21.1	17.6	19.3	24.5	19.4	20.3	20.1	21.7	21.8	18.3	20.0
NR n26	QPSK	25.0	25.0	23.1	24.0	23.8	24.7			25.7	25.7	23.8	24.7	24.5	25.4		
NR n30	QPSK	22.2	21.4	20.4	19.7	21.3	20.9	17.5	18.3	22.9	22.1	21.1	20.4	22.0	21.6	18.2	19.0
NR n41 (PC3)	QPSK	22.8	19.5	18.0	17.6	21.5	18.2	17.7	17.1	23.8	20.5	19.0	18.6	22.5	19.2	18.7	18.1
NR n41 (PC2)	QPSK	25.8	22.5	21.0	20.6	24.5	21.2	20.7	20.1	26.8	23.5	22.0	21.6	25.5	22.2	21.7	21.1
NR n53	QPSK	20.0	20.0	18.9	17.4					20.7	20.7	19.6	18.1				
NR n66	QPSK	23.5	18.4	19.1	19.1	20.9	21.7	18.4	20.0	24.2	19.1	19.8	19.8	21.6	22.4	19.1	20.7
NR n70	QPSK	23.5	18.4	19.1	19.1	20.9	21.7	18.4	20.0	24.2	19.1	19.8	19.8	21.6	22.4	19.1	20.7
NR n71	QPSK	25.0	25.0	24.0	24.0	24.7	24.7			25.7	25.7	24.7	24.7	25.4	25.4		
RF Air interface	Mode	Target Output Power (dBm)								Maximum Output Power (Tune-up Limit) (dBm)							
		ANT7		ANT8		ANT9		ANT4		ANT7		ANT8		ANT9		ANT4	
		Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
NR n48	QPSK	20.5	17.3	19.2	19.2	18.6	17.6	18.5	17.7	21.5	18.3	20.2	20.2	19.6	18.6	19.5	18.7
NR n77 (PC3)	QPSK	21.5	17.6	17.3	18.5	19.3	16.9	17.5	17.4	22.5	18.6	18.3	19.5	20.3	17.9	18.5	18.4
NR n77 (PC2)	QPSK	24.5	20.6	20.3	21.5	22.3	19.9	20.5	20.4	25.5	21.6	21.3	22.5	23.3	20.9	21.5	21.4

**NR Band n5 Measured Results (ANT1)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						166800	167300	167800	MPR	Max Output Pwr	166800	167300	167800	MPR	Max Output Pwr
						834 MHz	836.5 MHz	839 MHz			834 MHz	836.5 MHz	839 MHz		
20	DFT-s	15	π/2 BPSK	1	1		25.6			0	25.7		25.7	0	25.7
				1	53		25.7			0	25.7		25.7	0	25.7
				1	104		25.5			0	25.7		25.7	0	25.7
				50	28		25.6			0	25.7		25.7	0	25.7
			QPSK	1	1		25.7			0	25.7		25.7	0	25.7
				1	53		25.6			0	25.7		25.7	0	25.7
				1	104		25.5			0	25.7		25.6	0	25.7
				50	28		25.6			0	25.7		25.7	0	25.7

**NR Band n5 Measured Results (ANT2)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						166800	167300	167800	MPR	Max Output Pwr	166800	167300	167800	MPR	Max Output Pwr
						834 MHz	836.5 MHz	839 MHz			834 MHz	836.5 MHz	839 MHz		
20	DFT-s	15	π/2 BPSK	1	1		23.3			0	23.8		24.4	0	24.7
				1	53		23.3			0	23.8		24.4	0	24.7
				1	104		23.2			0	23.8		23.8	0	24.7
				50	28		23.0			0	23.8		23.8	0	24.7
			QPSK	1	1		23.1			0	23.8		24.4	0	24.7
				1	53		23.0			0	23.8		24.4	0	24.7
				1	104		23.2			0	23.8		24.3	0	24.7
				50	28		23.0			0	23.8		24.5	0	24.7

**NR Band n5 Measured Results (ANT3)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						166800	167300	167800	MPR	Tune-up Limit	166800	167300	167800	MPR	Max Output Pwr
						834 MHz	836.5 MHz	839 MHz			834 MHz	836.5 MHz	839 MHz		
20	DFT-s	15	π/2 BPSK	1	1		24.4			0	24.5		24.5	0	25.4
				1	53		24.1			0	24.5		25.1	0	25.4
				1	104		24.2			0	24.5		24.7	0	25.4
				50	28		24.3			0	24.5		24.5	0	25.4
			QPSK	1	1		24.3			0	24.5		24.9	0	25.4
				1	53		24.2			0	24.5		25.0	0	25.4
				1	104		24.1			0	24.5		24.8	0	25.4
				50	28		24.2			0	24.5		25.0	0	25.4

**NR Band n7 Measured Results (ANT1)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						504000	507000	510000	MPR	Max Output Pwr	504000	507000	510000	MPR	Max Output Pwr
						2520 MHz	2535 MHz	2550 MHz			2520 MHz	2535 MHz	2550 MHz		
40	DFT-s	15	π/2 BPSK	1	1		23.6			0	24		19.6	0	20.3
				1	108		23.6			0	24		19.8	0	20.3
				1	214		23.5			0	24		19.5	0	20.3
				108	54		23.5			0	24		19.7	0	20.3
			QPSK	1	1		23.7			0	24		19.6	0	20.3
				1	108		23.8			0	24		19.7	0	20.3
				1	214		23.7			0	24		19.4	0	20.3
				108	54		23.7			0	24		19.5	0	20.3

**NR Band n7 Measured Results (ANT2)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						504000	507000	510000	MPR	Max Output Pwr	504000	507000	510000	MPR	Max Output Pwr
						2520 MHz	2535 MHz	2550 MHz			2520 MHz	2535 MHz	2550 MHz		
40	DFT-s	15	π/2 BPSK	1	1		18.7			0	19.1		16.5	0	17.5
				1	108		18.9			0	19.1		16.7	0	17.5
				1	214		18.8			0	19.1		16.6	0	17.5
				108	54		18.7			0	19.1		16.4	0	17.5
			QPSK	1	1		18.8			0	19.1		16.5	0	17.5
				1	108		18.6			0	19.1		16.5	0	17.5
				1	214		18.9			0	19.1		16.5	0	17.5
				108	54		18.7			0	19.1		16.4	0	17.5

**NR Band n7 Measured Results (ANT3)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						504000	507000	510000	MPR	Max Output Pwr	504000	507000	510000	MPR	Max Output Pwr
						2520 MHz	2535 MHz	2550 MHz			2520 MHz	2535 MHz	2550 MHz		
40	DFT-s	15	π/2 BPSK	1	1		22.5			0	22.5		19.4	0	19.7
				1	108		22.5			0	22.5		19.5	0	19.7
				1	214		22.5			0	22.5		19.5	0	19.7
				108	54		22.5			0	22.5		19.5	0	19.7
			QPSK	1	1		22.5			0	22.5		19.4	0	19.7
				1	108		22.4			0	22.5		19.3	0	19.7
				1	214		22.4			0	22.5		19.2	0	19.7
				108	54		22.5			0	22.5		19.2	0	19.7

**NR Band n7 Measured Results (ANT4)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						504000	507000	510000	MPR	Max Output Pwr	504000	507000	510000	MPR	Max Output Pwr
						2520 MHz	2535 MHz	2550 MHz			2520 MHz	2535 MHz	2550 MHz		
40	DFT-s	15	π/2 BPSK	1	1		18.0		0	18.9		18.7		0	19
				1	108		18.3		0	18.9		19.0		0	19
				1	214		18.4		0	18.9		18.8		0	19
				108	54		18.5		0	18.9		18.5		0	19
			QPSK	1	1		18.3		0	18.9		18.7		0	19
				1	108		18.4		0	18.9		18.7		0	19
				1	214		18.3		0	18.9		18.7		0	19
				108	54		18.2		0	18.9		18.5		0	19

**NR Band n12 Measured Results (ANT1)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						141300	141500	141700	MPR	Max Output Pwr	141300	141500	141700	MPR	Max Output Pwr
						706.5 MHz	707.5 MHz	708.5 MHz			706.5 MHz	707.5 MHz	708.5 MHz		
15	DFT-s	15	π/2 BPSK	1	1		25.5		0	25.7		24.5		0	25.7
				1	39		25.7		0	25.7		25.2		0	25.7
				1	77		24.9		0	25.7		24.4		0	25.7
				36	22		25.2		0	25.7		24.6		0	25.7
			QPSK	1	1		25.0		0	25.7		24.4		0	25.7
				1	39		25.0		0	25.7		24.4		0	25.7
				1	77		25.0		0	25.7		24.3		0	25.7
				36	22		25.0		0	25.7		24.4		0	25.7

**NR Band n12 Measured Results (ANT2)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						141300	141500	141700	MPR	Max Output Pwr	141300	141500	141700	MPR	Max Output Pwr
						706.5 MHz	707.5 MHz	708.5 MHz			706.5 MHz	707.5 MHz	708.5 MHz		
15	DFT-s	15	π/2 BPSK	1	1		24.0		0	24.7		24.5		0	24.7
				1	39		24.0		0	24.7		24.5		0	24.7
				1	77		23.9		0	24.7		24.4		0	24.7
				36	22		23.8		0	24.7		24.4		0	24.7
			QPSK	1	1		24.2		0	24.7		24.5		0	24.7
				1	39		23.9		0	24.7		24.1		0	24.7
				1	77		24.0		0	24.7		24.2		0	24.7
				36	22		23.8		0	24.7		24.2		0	24.7

**NR Band n12 Measured Results (ANT3)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						141300	141500	141700	MPR	Max Output Pwr	141300	141500	141700	MPR	Max Output Pwr
						706.5 MHz	707.5 MHz	708.5 MHz			706.5 MHz	707.5 MHz	708.5 MHz		
15	DFT-s	15	π/2 BPSK	1	1		24.7		0	25.4		25.3		0	25.4
				1	39		24.5		0	25.4		25.1		0	25.4
				1	77		24.4		0	25.4		25.0		0	25.4
				36	22		24.4		0	25.4		25.0		0	25.4
			QPSK	1	1		24.7		0	25.4		25.3		0	25.4
				1	39		24.5		0	25.4		25.3		0	25.4
				1	77		24.5		0	25.4		25.1		0	25.4
				36	22		24.4		0	25.4		25.1		0	25.4

**NR Band n14 Measured Results (ANT1)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						158600	158600	158600	MPR	Max Output Pwr	158600	158600	158600	MPR	Max Output Pwr
						793 MHz	793 MHz	793 MHz			793 MHz	793 MHz	793 MHz		
10	DFT-s	15	π/2 BPSK	1	1		24.7		0	25.7		24.4		0	25.7
				1	26		24.7		0	25.7		24.6		0	25.7
				1	50		24.7		0	25.7		24.5		0	25.7
				25	14		24.6		0	25.7		24.6		0	25.7
			QPSK	1	1		24.8		0	25.7		24.4		0	25.7
				1	26		24.8		0	25.7		24.4		0	25.7
				1	50		24.9		0	25.7		24.5		0	25.7
				25	14		24.8		0	25.7		24.3		0	25.7

**NR Band n14 Measured Results (ANT2)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						158600	158600	158600	MPR	Max Output Pwr	158600	158600	158600	MPR	Max Output Pwr
						793 MHz	793 MHz	793 MHz			793 MHz	793 MHz	793 MHz		
10	DFT-s	15	π/2 BPSK	1	1		24.1		0	24.7		24.5		0	24.7
				1	26		24.1		0	24.7		24.5		0	24.7
				1	50		24.1		0	24.7		24.5		0	24.7
				25	14		23.9		0	24.7		24.4		0	24.7
			QPSK	1	1		24.3		0	24.7		24.6		0	24.7
				1	26		24.0		0	24.7		24.7		0	24.7
				1	50		24.3		0	24.7		24.7		0	24.7
				25	14		23.8		0	24.7		24.7		0	24.7

**NR Band n14 Measured Results (ANT3)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						158600	158600	158600	MPR	Max Output Pwr	158600	158600	158600	MPR	Max Output Pwr
						793 MHz	793 MHz	793 MHz			793 MHz	793 MHz	793 MHz		
10	DFT-s	15	π/2 BPSK	1	1		24.7		0	25.4		24.7		0	25.4
				1	26		25.1		0	25.4		25.1		0	25.4
				1	50		24.9		0	25.4		24.9		0	25.4
				25	14		25.0		0	25.4		25.0		0	25.4
			QPSK	1	1		24.9		0	25.4		24.9		0	25.4
				1	26		24.9		0	25.4		24.9		0	25.4
				1	50		25.0		0	25.4		25.0		0	25.4
				25	14		25.0		0	25.4		25.0		0	25.4

**NR Band n25 Measured Results (ANT1)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						374000	376500	379000	MPR	Max Output Pwr	374000	376500	379000	MPR	Max Output Pwr
						1870 MHz	1882.5 MHz	1895 MHz			1870 MHz	1882.5 MHz	1895 MHz		
40	DFT-s	15	π/2 BPSK	1	1		24.2		0	24.5		18.7		0	19.4
				1	108		24.4		0	24.5		18.7		0	19.4
				1	214		24.2		0	24.5		18.7		0	19.4
				108	54		24.4		0	24.5		18.6		0	19.4
			QPSK	1	1		24.2		0	24.5		18.8		0	19.4
				1	108		24.3		0	24.5		18.8		0	19.4
				1	214		24.4		0	24.5		19.0		0	19.4
				108	54		24.3		0	24.5		18.8		0	19.4

**NR Band n25 Measured Results (ANT2)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						374000	376500	379000	MPR	Max Output Pwr	374000	376500	379000	MPR	Max Output Pwr
						1870 MHz	1882.5 MHz	1895 MHz			1870 MHz	1882.5 MHz	1895 MHz		
40	DFT-s	15	π/2 BPSK	1	1		19.9		0	20.3		19.7		0	20.1
				1	108		19.9		0	20.3		19.7		0	20.1
				1	214		19.9		0	20.3		19.7		0	20.1
				108	54		19.7		0	20.3		19.6		0	20.1
			QPSK	1	1		20.0		0	20.3		19.8		0	20.1
				1	108		19.8		0	20.3		19.7		0	20.1
				1	214		20.2		0	20.3		20.0		0	20.1
				108	54		19.7		0	20.3		19.9		0	20.1

**NR Band n25 Measured Results (ANT3)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						374000	376500	379000	MPR	Max Output Pwr	374000	376500	379000	MPR	Max Output Pwr
						1870 MHz	1882.5 MHz	1895 MHz			1870 MHz	1882.5 MHz	1895 MHz		
40	DFT-s	15	π/2 BPSK	1	1		21.7		0	21.7		21.5		0	21.8
				1	108		21.6		0	21.7		21.2		0	21.8
				1	214		21.5		0	21.7		21.4		0	21.8
				108	54		21.4		0	21.7		21.1		0	21.8
			QPSK	1	1		21.7		0	21.7		21.7		0	21.8
				1	108		21.7		0	21.7		21.4		0	21.8
				1	214		21.5		0	21.7		21.2		0	21.8
				108	54		21.6		0	21.7		21.2		0	21.8

**NR Band n25 Measured Results (ANT4)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						374000	376500	379000	MPR	Max Output Pwr	374000	376500	379000	MPR	Max Output Pwr
						1870 MHz	1882.5 MHz	1895 MHz			1870 MHz	1882.5 MHz	1895 MHz		
40	DFT-s	15	π/2 BPSK	1	1		17.8		0	18.3		19.0		0	20
				1	108		17.8		0	18.3		19.2		0	20
				1	214		17.5		0	18.3		19.2		0	20
				108	54		17.8		0	18.3		19.1		0	20
			QPSK	1	1		17.7		0	18.3		19.1		0	20
				1	108		17.8		0	18.3		19.3		0	20
				1	214		17.6		0	18.3		19.3		0	20
				108	54		17.6		0	18.3		19.2		0	20

**NR Band n26 Measured Results (ANT1)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						164800	166300	167800	MPR	Max Output Pwr	164800	166300	167800	MPR	Max Output Pwr
						824 MHz	831.5 MHz	839 MHz			824 MHz	831.5 MHz	839 MHz		
20	DFT-s	15	π/2 BPSK	1	1		24.7		0	25.7		25.3		0	25.7
				1	53		24.8		0	25.7		25.3		0	25.7
				1	104		24.8		0	25.7		25.3		0	25.7
				50	28		24.7		0	25.7		25.3		0	25.7
			QPSK	1	1		24.8		0	25.7		25.3		0	25.7
				1	53		24.9		0	25.7		25.3		0	25.7
				1	104		24.9		0	25.7		25.3		0	25.7
				50	28		24.7		0	25.7		25.3		0	25.7

**NR Band n26 Measured Results (ANT2)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
						164800	166300	167800	MPR	Max Output Pwr	164800	166300	167800	MPR	Max Output Pwr	
						824 MHz	831.5 MHz	839 MHz			824 MHz	831.5 MHz	839 MHz			
20	DFT-s	15	π/2 BPSK	1	1		23.1			0	23.8		24.3		0	24.7
				1	53		23.1			0	23.8		24.3		0	24.7
				1	104		23.1			0	23.8		24.3		0	24.7
				50	28		23.0			0	23.8		24.2		0	24.7
			QPSK	1	1		23.2			0	23.8		24.6		0	24.7
				1	53		23.1			0	23.8		24.6		0	24.7
				1	104		23.2			0	23.8		24.4		0	24.7
				50	28		23.0			0	23.8		24.5		0	24.7

**NR Band n26 Measured Results (ANT3)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
						164800	166300	167800	MPR	Max Output Pwr	164800	166300	167800	MPR	Max Output Pwr	
						824 MHz	831.5 MHz	839 MHz			824 MHz	831.5 MHz	839 MHz			
20	DFT-s	15	π/2 BPSK	1	1		24.0			0	24.5		24.9		0	25.4
				1	53		24.0			0	24.5		24.9		0	25.4
				1	104		24.0			0	24.5		24.9		0	25.4
				50	28		23.9			0	24.5		24.8		0	25.4
			QPSK	1	1		24.1			0	24.5		25.1		0	25.4
				1	53		24.2			0	24.5		25.1		0	25.4
				1	104		24.1			0	24.5		25.0		0	25.4
				50	28		24.2			0	24.5		25.2		0	25.4

**NR Band n30 Measured Results (ANT1)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
						462000	462000	462000	MPR	Max Output Pwr	462000	462000	462000	MPR	Max Output Pwr	
						2310 MHz	2310 MHz	2310 MHz			2310 MHz	2310 MHz	2310 MHz			
10	DFT-s	15	π/2 BPSK	1	1		21.8			0	22.9		21.1		0	22.1
				1	26		21.9			0	22.9		21.1		0	22.1
				1	50		21.8			0	22.9		21.1		0	22.1
				25	14		21.9			0	22.9		21.1		0	22.1
			QPSK	1	1		22.0			0	22.9		20.9		0	22.1
				1	26		22.0			0	22.9		20.9		0	22.1
				1	50		21.8			0	22.9		20.8		0	22.1
				25	14		21.9			0	22.9		20.8		0	22.1

**NR Band n30 Measured Results (ANT2)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
						462000	462000	462000	MPR	Max Output Pwr	462000	462000	462000	MPR	Max Output Pwr	
						2310 MHz	2310 MHz	2310 MHz			2310 MHz	2310 MHz	2310 MHz			
10	DFT-s	15	π/2 BPSK	1	1		21.0			0	21.1		19.6		0	20.4
				1	26		21.0			0	21.1		19.6		0	20.4
				1	50		20.9			0	21.1		19.6		0	20.4
				25	14		20.8			0	21.1		19.4		0	20.4
			QPSK	1	1		21.1			0	21.1		19.4		0	20.4
				1	26		20.9			0	21.1		19.7		0	20.4
				1	50		20.8			0	21.1		19.5		0	20.4
				25	14		21.0			0	21.1		19.5		0	20.4

**NR Band n30 Measured Results (ANT3)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
						462000	462000	462000	MPR	Max Output Pwr	462000	462000	462000	MPR	Max Output Pwr	
						2310 MHz	2310 MHz	2310 MHz			2310 MHz	2310 MHz	2310 MHz			
10	DFT-s	15	π/2 BPSK	1	1		21.3			0	22		20.6		0	21.6
				1	26		21.3			0	22		20.6		0	21.6
				1	50		21.3			0	22		20.6		0	21.6
				25	14		21.3			0	22		20.7		0	21.6
			QPSK	1	1		21.4			0	22		20.7		0	21.6
				1	26		21.5			0	22		20.7		0	21.6
				1	50		21.4			0	22		20.7		0	21.6
				25	14		21.4			0	22		20.6		0	21.6

**NR Band n30 Measured Results (ANT4)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
						462000	462000	462000	MPR	Max Output Pwr	462000	462000	462000	MPR	Max Output Pwr	
						2310 MHz	2310 MHz	2310 MHz			2310 MHz	2310 MHz	2310 MHz			
10	DFT-s	15	π/2 BPSK	1	1		16.7			0	18.2		17.9		0	19
				1	26		16.7			0	18.2		17.9		0	19
				1	50		16.7			0	18.2		17.9		0	19
				25	14		16.7			0	18.2		17.8		0	19
			QPSK	1	1		16.7			0	18.2		18.0		0	19
				1	26		16.8			0	18.2		17.6		0	19
				1	50		16.8			0	18.2		17.9		0	19
				25	14		16.7			0	18.2		17.9		0	19

NR Band n41 Measured Results (ANT1)

Table with columns: BW (MHz), OFDM Modulation Scheme, SCS (kHz), Mode, RB Allocation, RB offset, Power Mode A (dBm), MPR, Max Output Pwr, Power Mode B (dBm), MPR, Max Output Pwr. Rows include parameters for 100 MHz bandwidth, DFT-s scheme, 30 kHz SCS, and various RB allocations for BPSK and QPSK modes.

NR Band n41 Measured Results (ANT2)

Table with columns: BW (MHz), OFDM Modulation Scheme, SCS (kHz), Mode, RB Allocation, RB offset, Power Mode A (dBm), MPR, Max Output Pwr, Power Mode B (dBm), MPR, Max Output Pwr. Rows include parameters for 100 MHz bandwidth, DFT-s scheme, 30 kHz SCS, and various RB allocations for BPSK and QPSK modes.

NR Band n41 Measured Results (ANT3)

Table with columns: BW (MHz), OFDM Modulation Scheme, SCS (kHz), Mode, RB Allocation, RB offset, Power Mode A (dBm), MPR, Max Output Pwr, Power Mode B (dBm), MPR, Max Output Pwr. Rows include parameters for 100 MHz bandwidth, DFT-s scheme, 30 kHz SCS, and various RB allocations for BPSK and QPSK modes.

NR Band n41 Measured Results (ANT4)

Table with columns: BW (MHz), OFDM Modulation Scheme, SCS (kHz), Mode, RB Allocation, RB offset, Power Mode A (dBm), MPR, Max Output Pwr, Power Mode B (dBm), MPR, Max Output Pwr. Rows include parameters for 100 MHz bandwidth, DFT-s scheme, 30 kHz SCS, and various RB allocations for BPSK and QPSK modes.

NR Band n48 Measured Results (ANT7)

Table with columns: BW (MHz), OFDM Modulation Scheme, SCS (kHz), Mode, RB Allocation, RB offset, Power Mode A (dBm), MPR, Max Output Pwr, Power Mode B (dBm), MPR, Max Output Pwr. Rows include parameters for 40 MHz bandwidth, DFT-s scheme, 30 kHz SCS, and various RB allocations for BPSK and QPSK modes.

NR Band n48 Measured Results (ANT8)

Table with columns: BW (MHz), OFDM Modulation Scheme, SCS (kHz), Mode, RB Allocation, RB offset, Power Mode A (dBm), MPR, Max Output Pwr, Power Mode B (dBm), MPR, Max Output Pwr. Rows include parameters for 40 MHz bandwidth, DFT-s scheme, 30 kHz SCS, and various RB allocations for BPSK and QPSK modes.

NR Band n48 Measured Results (ANT9)

Table with columns: BW (MHz), OFDM Modulation Scheme, SCS (kHz), Mode, RB Allocation, RB offset, Power Mode A (dBm), MPR, Max Output Pwr, Power Mode B (dBm), MPR, Max Output Pwr. Rows include parameters for 40 MHz bandwidth, DFT-s scheme, 30 kHz SCS, and various RB allocations for BPSK and QPSK modes.



**NR Band n48 Measured Results (ANT4)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)						
						638000	640444	642888	645332	MPR	Max Output Pwr	638000	640444	642888	645332	MPR	Max Output Pwr
						3570 MHz	3606.66 MHz	3643.32 MHz	3679.98 MHz			3570 MHz	3606.66 MHz	3643.32 MHz	3679.98 MHz		
40	DFT-s	30	π/2 BPSK	1	1			18.2		0	19.5			17.8		0	18.7
				1	53			18.2		0	19.5			17.9		0	18.7
				1	104			18.2		0	19.5			17.9		0	18.7
				50	28			18.2		0	19.5			17.7		0	18.7
				1	1			18.4		0	19.5			17.8		0	18.7
			QPSK	1	53			18.3		0	19.5			17.9		0	18.7
				1	104			18.3		0	19.5			18.0		0	18.7
				50	28			18.4		0	19.5			17.9		0	18.7

**NR Band n53 Measured Results (ANT1)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)						
						497700	497840	498000	MPR	Max Output Pwr	497700	497840	498000	MPR	Max Output Pwr		
						2488.5 MHz	2489.2 MHz	2490 MHz			2488.5 MHz	2489.2 MHz	2490 MHz				
10	DFT-s	30	π/2 BPSK	1	1			20.7		0	20.7			19.8		0	20.7
				1	12			20.7		0	20.7			20.0		0	20.7
				1	22			20.7		0	20.7			19.7		0	20.7
				12	6			20.6		0	20.7			20.0		0	20.7
				1	1			20.6		0	20.7			20.0		0	20.7
			QPSK	1	12			20.7		0	20.7			20.0		0	20.7
				1	22			20.7		0	20.7			20.0		0	20.7
				12	6			20.6		0	20.7			20.0		0	20.7

**NR Band n53 Measured Results (ANT2)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)						
						497700	497840	498000	MPR	Max Output Pwr	497700	497840	498000	MPR	Max Output Pwr		
						2488.5 MHz	2489.2 MHz	2490 MHz			2488.5 MHz	2489.2 MHz	2490 MHz				
10	DFT-s	30	π/2 BPSK	1	1			19.0		0	19.6			17.9		0	18.1
				1	12			19.1		0	19.6			18.0		0	18.1
				1	22			19.0		0	19.6			18.0		0	18.1
				12	6			19.1		0	19.6			17.9		0	18.1
				1	1			19.0		0	19.6			17.8		0	18.1
			QPSK	1	12			19.0		0	19.6			18.0		0	18.1
				1	22			19.1		0	19.6			18.0		0	18.1
				12	6			18.9		0	19.6			17.9		0	18.1

**NR Band n66 Measured Results (ANT1)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)						
						346000	349000	352000	MPR	Max Output Pwr	346000	349000	352000	MPR	Max Output Pwr		
						1730 MHz	1745 MHz	1760 MHz			1730 MHz	1745 MHz	1760 MHz				
40	DFT-s	15	π/2 BPSK	1	1			23.8		0	24.2			17.8		0	19.1
				1	108			23.8		0	24.2			17.8		0	19.1
				1	214			23.5		0	24.2			17.7		0	19.1
				108	54			23.7		0	24.2			17.7		0	19.1
				1	1			23.9		0	24.2			17.8		0	19.1
			QPSK	1	108			23.8		0	24.2			17.7		0	19.1
				1	214			23.5		0	24.2			17.5		0	19.1
				108	54			23.7		0	24.2			17.7		0	19.1

**NR Band n66 Measured Results (ANT2)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)						
						346000	349000	352000	MPR	Max Output Pwr	346000	349000	352000	MPR	Max Output Pwr		
						1730 MHz	1745 MHz	1760 MHz			1730 MHz	1745 MHz	1760 MHz				
40	DFT-s	15	π/2 BPSK	1	1			19.1		0	19.8			19.5		0	19.8
				1	108			19.1		0	19.8			19.7		0	19.8
				1	214			19.1		0	19.8			19.2		0	19.8
				108	54			19.1		0	19.8			19.7		0	19.8
				1	1			18.9		0	19.8			19.3		0	19.8
			QPSK	1	108			18.7		0	19.8			19.6		0	19.8
				1	214			19.3		0	19.8			19.3		0	19.8
				108	54			19.1		0	19.8			19.5		0	19.8

**NR Band n66 Measured Results (ANT3)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)						
						346000	349000	352000	MPR	Max Output Pwr	346000	349000	352000	MPR	Max Output Pwr		
						1730 MHz	1745 MHz	1760 MHz			1730 MHz	1745 MHz	1760 MHz				
40	DFT-s	15	π/2 BPSK	1	1			21.3		0	21.6			20.9		0	22.4
				1	108			21.3		0	21.6			20.9		0	22.4
				1	214			21.3		0	21.6			20.9		0	22.4
				108	54			21.2		0	21.6			20.9		0	22.4
				1	1			21.3		0	21.6			20.9		0	22.4
			QPSK	1	108			20.9		0	21.6			20.9		0	22.4
				1	214			20.0		0	21.6			21.0		0	22.4
				108	54			21.0		0	21.6			20.9		0	22.4



**NR Band n66 Measured Results (ANT4)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
						346000	349000	352000	MPR	Max Output Pwr	346000	349000	352000	MPR	Max Output Pwr	
						1730 MHz	1745 MHz	1760 MHz			1730 MHz	1745 MHz	1760 MHz			
40	DFT-s	15	π/2 BPSK	1	1		18.6			0	19.1		20.3		0	20.7
				1	108		18.6			0	19.1		20.3		0	20.7
				1	214		18.6			0	19.1		20.3		0	20.7
				108	54		18.6			0	19.1		20.3		0	20.7
			QPSK	1	1		18.6			0	19.1		20.5		0	20.7
				1	108		18.5			0	19.1		20.4		0	20.7
				1	214		18.6			0	19.1		20.1		0	20.7
				108	54		18.6			0	19.1		20.3		0	20.7

**NR Band n70 Measured Results (ANT1)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
						340500	340500	340500	MPR	Max Output Pwr	340500	340500	340500	MPR	Max Output Pwr	
						1702.5 MHz	1702.5 MHz	1702.5 MHz			1702.5 MHz	1702.5 MHz	1702.5 MHz			
15	DFT-s	15	π/2 BPSK	1	1		23.9			0	24.2		17.9		0	19.1
				1	39		24.0			0	24.2		17.9		0	19.1
				1	77		23.9			0	24.2		17.9		0	19.1
				36	22		23.8			0	24.2		17.8		0	19.1
			QPSK	1	1		23.9			0	24.2		17.8		0	19.1
				1	39		23.8			0	24.2		17.9		0	19.1
				1	77		23.9			0	24.2		17.9		0	19.1
				36	22		23.9			0	24.2		17.9		0	19.1

**NR Band n70 Measured Results (ANT2)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
						340500	340500	340500	MPR	Max Output Pwr	340500	340500	340500	MPR	Max Output Pwr	
						1702.5 MHz	1702.5 MHz	1702.5 MHz			1702.5 MHz	1702.5 MHz	1702.5 MHz			
15	DFT-s	15	π/2 BPSK	1	1		19.4			0	19.8		19.6		0	19.8
				1	39		19.4			0	19.8		19.8		0	19.8
				1	77		19.2			0	19.8		19.6		0	19.8
				36	22		19.1			0	19.8		19.5		0	19.8
			QPSK	1	1		19.3			0	19.8		19.6		0	19.8
				1	39		19.4			0	19.8		19.6		0	19.8
				1	77		19.2			0	19.8		19.7		0	19.8
				36	22		19.2			0	19.8		19.5		0	19.8

**NR Band n70 Measured Results (ANT3)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
						340500	340500	340500	MPR	Max Output Pwr	340500	340500	340500	MPR	Max Output Pwr	
						1702.5 MHz	1702.5 MHz	1702.5 MHz			1702.5 MHz	1702.5 MHz	1702.5 MHz			
15	DFT-s	15	π/2 BPSK	1	1		21.6			0	21.6		21.5		0	22.4
				1	39		21.6			0	21.6		21.5		0	22.4
				1	77		21.5			0	21.6		21.5		0	22.4
				36	22		21.5			0	21.6		21.2		0	22.4
			QPSK	1	1		21.5			0	21.6		21.8		0	22.4
				1	39		21.6			0	21.6		21.7		0	22.4
				1	77		21.5			0	21.6		21.5		0	22.4
				36	22		21.6			0	21.6		21.8		0	22.4

**NR Band n70 Measured Results (ANT4)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
						340500	340500	340500	MPR	Max Output Pwr	340500	340500	340500	MPR	Max Output Pwr	
						1702.5 MHz	1702.5 MHz	1702.5 MHz			1702.5 MHz	1702.5 MHz	1702.5 MHz			
15	DFT-s	15	π/2 BPSK	1	1		18.2			0	19.1		20.6		0	20.7
				1	39		18.2			0	19.1		20.7		0	20.7
				1	77		18.2			0	19.1		20.6		0	20.7
				36	22		18.2			0	19.1		20.6		0	20.7
			QPSK	1	1		18.0			0	19.1		20.4		0	20.7
				1	39		18.2			0	19.1		20.7		0	20.7
				1	77		18.4			0	19.1		20.2		0	20.7
				36	22		18.2			0	19.1		20.5		0	20.7

**NR Band n71 Measured Results (ANT1)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
						134600	136100	137600	MPR	Max Output Pwr	134600	136100	137600	MPR	Max Output Pwr	
						673 MHz	680.5 MHz	688 MHz			673 MHz	680.5 MHz	688 MHz			
20	DFT-s	15	π/2 BPSK	1	1		25.3			0	25.7		25.3		0	25.7
				1	53		25.4			0	25.7		25.6		0	25.7
				1	104		25.3			0	25.7		25.5		0	25.7
				50	28		25.4			0	25.7		25.6		0	25.7
			QPSK	1	1		25.5			0	25.7		25.6		0	25.7
				1	53		25.5			0	25.7		25.6		0	25.7
				1	104		25.3			0	25.7		25.6		0	25.7
				50	28		25.4			0	25.7		25.5		0	25.7

**NR Band n71 Measured Results (ANT2)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
						134600	136100	137600	MPR	Max Output Pwr	134600	136100	137600	MPR	Max Output Pwr	
						673 MHz	680.5 MHz	688 MHz			673 MHz	680.5 MHz	688 MHz			
20	DFT-s	15	π/2 BPSK	1	1		24.3			0	24.7				0	24.7
				1	53		24.5			0	24.7				0	24.7
				1	104		24.2			0	24.7				0	24.7
				50	28		24.4			0	24.7				0	24.7
				1	1		24.3			0	24.7				0	24.7
			QPSK	1	53		24.3			0	24.7				0	24.7
				1	104		24.2			0	24.7				0	24.7
				50	28		24.2			0	24.7				0	24.7

**NR Band n71 Measured Results (ANT3)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
						134600	136100	137600	MPR	Max Output Pwr	134600	136100	137600	MPR	Max Output Pwr	
						673 MHz	680.5 MHz	688 MHz			673 MHz	680.5 MHz	688 MHz			
20	DFT-s	15	π/2 BPSK	1	1		25.2			0	25.4				0	25.4
				1	53		25.2			0	25.4				0	25.4
				1	104		25.2			0	25.4				0	25.4
				50	28		25.2			0	25.4				0	25.4
				1	1		25.2			0	25.4				0	25.4
			QPSK	1	53		25.3			0	25.4				0	25.4
				1	104		25.3			0	25.4				0	25.4
				50	28		25.3			0	25.4				0	25.4

**NR Band n77 (Block A) Measured Results (ANT7)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
						633332	633332	633332	MPR	Max Output Pwr	633332	633332	633332	MPR	Max Output Pwr	
						3499.98 MHz	3499.98 MHz	3499.98 MHz			3499.98 MHz	3499.98 MHz	3499.98 MHz			
100	DFT-s	30	π/2 BPSK	1	1		21.1			0	22.5				0	18.6
				1	136		22.0			0	22.5				0	18.6
				1	271		21.1			0	22.5				0	18.6
				135	69		21.9			0	22.5				0	18.6
				1	1		21.3			0	22.5				0	18.6
			QPSK	1	136		20.9			0	22.5				0	18.6
				1	271		21.3			0	22.5				0	18.6
				135	69		21.3			0	22.5				0	18.6

**NR Band n77 (Block C) Measured Results (ANT7)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)										Power Mode B (dBm)									
						650000	652400	654800	657200	659600	662000	MPR	Max Output Pwr	650000	652400	654800	657200	659600	662000	MPR	Max Output Pwr				
						3750 MHz	3786 MHz	3822 MHz	3858 MHz	3894 MHz	3930 MHz			3750 MHz	3786 MHz	3822 MHz	3858 MHz	3894 MHz	3930 MHz						
100	DFT-s	30	π/2 BPSK	1	1		20.8						0	22.5				0	18.6						
				1	136		22.1								0	22.5			0	18.6					
				1	271		20.9								0	22.5			0	18.6					
				135	69		22.0								0	22.5			0	18.6					
				1	1		20.9								0	22.5			0	18.6					
			QPSK	1	136		20.9								0	22.5			0	18.6					
				1	271		21.1								0	22.5			0	18.6					
				135	69		21.0								0	22.5			0	18.6					

**NR Band n77 (Block A) Measured Results (ANT8)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)					
						633332	633332	633332	MPR	Max Output Pwr	633332	633332	633332	MPR	Max Output Pwr	
						3499.98 MHz	3499.98 MHz	3499.98 MHz			3499.98 MHz	3499.98 MHz	3499.98 MHz			
100	DFT-s	30	π/2 BPSK	1	1		17.9			0	18.3				0	19.5
				1	136		18.3			0	18.3				0	19.5
				1	271		18.0			0	18.3				0	19.5
				135	69		18.3			0	18.3				0	19.5
				1	1		17.8			0	18.3				0	19.5
			QPSK	1	136		18.0			0	18.3				0	19.5
				1	271		18.1			0	18.3				0	19.5
				135	69		18.2			0	18.3				0	19.5

**NR Band n77 (Block C) Measured Results (ANT8)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)										Power Mode B (dBm)									
						650000	652400	654800	657200	659600	662000	MPR	Max Output Pwr	650000	652400	654800	657200	659600	662000	MPR	Max Output Pwr				
						3750 MHz	3786 MHz	3822 MHz	3858 MHz	3894 MHz	3930 MHz			3750 MHz	3786 MHz	3822 MHz	3858 MHz	3894 MHz	3930 MHz						
100	DFT-s	30	π/2 BPSK	1	1		18.0						0	18.3				0	19.5						
				1	136		18.3								0	18.3			0	19.5					
				1	271		18.0								0	18.3			0	19.5					
				135	69		18.2								0	18.3			0	19.5					
				1	1		18.3								0	18.3			0	19.5					
			QPSK	1	136		18.1								0	18.3			0	19.5					
				1	271		18.0								0	18.3			0	19.5					
				135	69		18.2								0	18.3			0	19.5					

**NR Band n77 (Block A) Measured Results (ANT9)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						633332	633332	633332	MPR	Max Output Pwr	633332	633332	633332	MPR	Max Output Pwr
						3499.98 MHz	3499.98 MHz	3499.98 MHz			3499.98 MHz	3499.98 MHz	3499.98 MHz		
100	DFT-s	30	π/2 BPSK	1	1		20.0		0	20.3		17.2		0	17.9
				1	136		20.0		0	20.3		17.2		0	17.9
				1	271		20.0		0	20.3		17.2		0	17.9
				135	69		19.8		0	20.3		17.3		0	17.9
				1	1		20.1		0	20.3		17.2		0	17.9
				1	136		20.1		0	20.3		17.3		0	17.9
			QPSK	1	271		20.1		0	20.3		17.2		0	17.9
				135	69		20.1		0	20.3		17.2		0	17.9

**NR Band n77 (Block C) Measured Results (ANT9)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)										Power Mode B (dBm)									
						650000	652400	654800	657200	659600	662000	MPR	Max Output Pwr	650000	652400	654800	657200	659600	662000	MPR	Max Output Pwr				
						3750 MHz	3786 MHz	3822 MHz	3858 MHz	3894 MHz	3930 MHz			3750 MHz	3786 MHz	3822 MHz	3858 MHz	3894 MHz	3930 MHz						
100	DFT-s	30	π/2 BPSK	1	1		19.3		0	20.3		16.7		0	17.9										
				1	136		19.9		0	20.3		17.0		0	17.9										
				1	271		19.3		0	20.3		16.5		0	17.9										
				135	69		19.7		0	20.3		17.0		0	17.9										
				1	1		19.5		0	20.3		16.7		0	17.9										
				1	136		19.5		0	20.3		16.7		0	17.9										
			QPSK	1	271		19.3		0	20.3		16.5		0	17.9										
				135	69		19.4		0	20.3		16.5		0	17.9										

**NR Band n77 (Block A) Measured Results (ANT4)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)					Power Mode B (dBm)				
						633332	633332	633332	MPR	Max Output Pwr	633332	633332	633332	MPR	Max Output Pwr
						3499.98 MHz	3499.98 MHz	3499.98 MHz			3499.98 MHz	3499.98 MHz	3499.98 MHz		
100	DFT-s	30	π/2 BPSK	1	1		18.0		0	18.5		17.9		0	18.4
				1	136		18.0		0	18.5		17.8		0	18.4
				1	271		18.1		0	18.5		17.7		0	18.4
				135	69		18.1		0	18.5		17.8		0	18.4
				1	1		18.1		0	18.5		17.9		0	18.4
				1	136		18.2		0	18.5		17.8		0	18.4
			QPSK	1	271		18.1		0	18.5		17.7		0	18.4
				135	69		18.0		0	18.5		17.7		0	18.4

**NR Band n77 (Block C) Measured Results (ANT4)**

BW (MHz)	OFDM Modulation Scheme	SCS (kHz)	Mode	RB Allocation	RB offset	Power Mode A (dBm)										Power Mode B (dBm)									
						650000	652400	654800	657200	659600	662000	MPR	Max Output Pwr	650000	652400	654800	657200	659600	662000	MPR	Max Output Pwr				
						3750 MHz	3786 MHz	3822 MHz	3858 MHz	3894 MHz	3930 MHz			3750 MHz	3786 MHz	3822 MHz	3858 MHz	3894 MHz	3930 MHz						
100	DFT-s	30	π/2 BPSK	1	1		17.5		0	18.5		17.5		0	18.4										
				1	136		17.5		0	18.5		17.4		0	18.4										
				1	271		17.6		0	18.5		17.5		0	18.4										
				135	69		17.4		0	18.5		17.4		0	18.4										
				1	1		17.8		0	18.5		17.5		0	18.4										
				1	136		17.7		0	18.5		17.5		0	18.4										
			QPSK	1	271		17.7		0	18.5		17.4		0	18.4										
				135	69		17.6		0	18.5		17.5		0	18.4										

**9.7. Wi-Fi 2.4GHz (DTS Band)**

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 b/g/n/ac/ax modes, the channel in the lower order/sequence 802.11 mode (i.e. g, n, ac, then ax) is selected. Therefore the SAR measurements performed for the 802.11b modes, as the lowest order modulation, cover 802.11g/n/ac/ax modes.

Inspection of the SAR plots has shown that there is no overlap of hotspots and the center of antennas is over 100 mm apart. Using the guidance in KDB 248227 section 6.1, no evaluation of MIMO is required and SAR compliance for simultaneous transmission is determined separately for each individual antenna.

**Maximum Output Power for Wi-Fi 2.4 GHz**

The table below is the Maximum output power for this device. The highlighted values indicates what the overall worst case transmission mode will be required for SAR testing per channel. In the Wi-Fi 2.4 GHz(Power State) table, the highlighted worst case Low/Mid/High channels are selected for Mode A and Mode B.

Channel	Frequency (MHz)	Maximum Output Power (dBm)																							
		SISO												MIMO											
		ANT3 / ANT4												MIMO											
b (SISO)	g (SISO) Low Rate	g (SISO) Mid Rate	g (SISO) High Rate	11n/11ac HT20 (SISO) Low Rate	11n/11ac HT20 (SISO) Mid Rate	11n/11ac HT20 (SISO) High Rate	11ax HE20 (SISO) Low Rate	11ax HE20 (SISO) Mid Rate	11ax HE20 (SISO) High Rate	11ax HE20 RU4x2 (SISO)	11ax HE20 RU10x (SISO)	11ax HE20 RU5x2 (SISO)	11ax HE20 RU2x6 (SISO)	11n/11ac HT20 (2Tx, nonTxBF) Low Rate	11n/11ac HT20 (2Tx, nonTxBF) Mid Rate	11n/11ac HT20 (2Tx, nonTxBF) High Rate	11ax HE20 (2Tx, nonTxBF) Low Rate	11ax HE20 (2Tx, nonTxBF) Mid Rate	11ax HE20 (2Tx, nonTxBF) High Rate	11ax HE20 RU2x4 (2Tx, nonTxBF)	11ax HE20 RU10x (2Tx, nonTxBF)	11ax HE20 RU5x2 (2Tx, nonTxBF)	11ax HE20 RU2x6 (2Tx, nonTxBF)		
1	2412	20.5	18	17.8	17.5	18	17.8	17.5	17	16.5	16	16	16	15	12	17.5	17	16.5	16	15.5	15	15	15	15	12
2	2417	21.5	19.5	19.5	19.3	19.5	19.5	19.3	18	18	18	18	18	15	12	18.5	18.5	18.3	17	17	17	17	17	17	12
3	2422	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18	15	12	20	20	20	19	19	19	19	18	12
4	2427	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18	15	12	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18	12
5	2432	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18	15	12	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18	12
6	2437	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18	15	12	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18	12
7	2442	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18	15	12	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18	12
8	2447	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18	15	12	21.5	21.5	21.5	21.5	21.5	21.5	21.5	18	12
9	2452	21.5	21	21	21	21	21	21	21	21.5	21.5	21.5	21.5	18	15	12	19.5	19.5	19.5	18.5	18.5	18.5	18.5	18	12
10	2457	21.5	19.5	19.5	19.5	19.5	19.5	19.5	18	18	18	18	18	15	12	18.5	18.5	18.5	17	17	17	17	17	15	12
11	2462	21.5	18.5	18	17.5	18.5	18	17.5	17	16.5	16	16	16	15	12	17.5	17	16.5	16	15.5	15	15	15	15	12
12	2467	20.5	16	15.8	15.5	16	15.8	15.5	15	14.5	14	14	14	14	12	15	14.5	14	14	13.5	13	13	13	13	12
13	2472	18	13	12.5	12	13	12.5	12	9	8.8	8.5	8.5	8.5	3	0	0	12	11.8	11.5	8.5	8.3	8	8	2.5	0

**Wi-Fi 2.4 GHz(Power States)**

For 2.4 GHz band, there are use 4 difference power states:

- Power State 1: 802.15.4ab-NB<sub>OFF</sub> | CELL<sub>OFF</sub>
- Power State 2: 802.15.4ab-NB<sub>OFF</sub> | CELL<sub>ON</sub>
- Power State 3: 802.15.4ab-NB<sub>ON</sub> | CELL<sub>OFF</sub>
- Power State 4: 802.15.4ab-NB<sub>ON</sub> | CELL<sub>ON</sub>

Mode	Channel	Frequency (MHz)	Maximum Output Power (dBm) Power States 1								Maximum Output Power (dBm) Power States 2				Maximum Output Power (dBm) Power States 3				Maximum Output Power (dBm) Power States 4					
			ANT3				ANT4				ANT3		ANT4		ANT3		ANT4		ANT3		ANT4			
			Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B		
802.11b DSSS (SISO)	1	2412	20.50	20.50	20.25	20.25	20.50	18.50	17.25	17.25	20.50	20.50	20.25	20.25	20.50	17.75	16.25	16.25						
	2	2417	21.50	21.50	20.25	20.25	21.50	18.50	17.25	17.25	21.50	21.50	20.25	20.25	21.25	17.75	16.25	16.25						
	3	2422	21.50	21.50	20.25	20.25	21.50	18.50	17.25	17.25	21.50	21.50	20.25	20.25	21.25	17.75	16.25	16.25						
	4	2427	21.50	21.50	20.25	20.25	21.50	18.50	17.25	17.25	21.50	21.50	20.25	20.25	21.25	17.75	16.25	16.25						
	5	2432	21.50	21.50	20.25	20.25	21.50	18.50	17.25	17.25	21.50	21.50	20.25	20.25	21.25	17.75	16.25	16.25						
	6	2437	21.50	21.50	20.25	20.25	21.50	18.50	17.25	17.25	21.50	21.50	20.25	20.25	21.25	17.75	16.25	16.25						
	7	2442	21.50	21.50	20.25	20.25	21.50	18.50	17.25	17.25	21.50	21.50	20.25	20.25	21.25	17.75	16.25	16.25						
	8	2447	21.50	21.50	20.25	20.25	21.50	18.50	17.25	17.25	21.50	21.50	20.25	20.25	21.25	17.75	16.25	16.25						
	9	2452	21.50	21.50	20.25	20.25	21.50	18.50	17.25	17.25	21.50	21.50	20.25	20.25	21.25	17.75	16.25	16.25						
	10	2457	21.50	21.50	20.25	20.25	21.50	18.50	17.25	17.25	21.50	21.50	20.25	20.25	21.25	17.75	16.25	16.25						
	11	2462	21.50	21.50	20.25	20.25	21.50	18.50	17.25	17.25	21.50	21.50	20.25	20.25	21.25	17.75	16.25	16.25						
	12	2467	20.50	20.50	20.25	20.25	20.50	18.50	17.25	17.25	20.50	20.50	20.25	20.25	20.50	17.75	16.25	16.25						
	13	2472	18.00	18.00	18.00	18.00	18.00	18.00	17.25	17.25	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	18.00	17.75	16.25	16.25	

**Wi-Fi 2.4GHz Measured Results**

The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.

SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum output power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11g/n/ac/ax mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.

SAR testing is not required for OFDM mode(s) when the highest SAR reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg.

Power Mode	Antenna	Mode	Power Mode A					Power Mode B				
			Ch #	Freq. (MHz)	Meas Pwr (dBm)	Max Output Pwr (dBm)	SAR Test (Yes/No)	Ch #	Freq. (MHz)	Meas Pwr (dBm)	Max Output Pwr (dBm)	SAR Test (Yes/No)
Power States 1	ANT3	DSSS 802.11b	2	2417	20.22	21.50	Yes	2	2417	20.63	21.50	Yes
			6	2437	20.56	21.50		6	2437	20.58	21.50	
			11	2462	20.16	21.50		11	2462	20.64	21.50	
	ANT4	DSSS 802.11b	1	2412	18.97	20.25	Yes	1	2412	18.71	20.25	Yes
			6	2437	19.33	20.25		6	2437	18.75	20.25	
			11	2462	19.25	20.25		11	2462	18.77	20.25	
Power States 2	ANT3	DSSS 802.11b	2	2417	20.22	21.50	Yes	1	2412	17.83	18.50	Yes
			6	2437	20.56	21.50		6	2437	17.88	18.50	
			11	2462	20.16	21.50		11	2462	17.78	18.50	
	ANT4	DSSS 802.11b	1	2412	15.80	17.25	Yes	1	2412	15.39	17.25	Yes
			6	2437	16.03	17.25		6	2437	16.25	17.25	
			11	2462	15.86	17.25		11	2462	15.24	17.25	
Power States 3	ANT3	DSSS 802.11b	2	2417	20.20	21.50	Yes	2	2417	20.60	21.50	Yes
			6	2437	20.60	21.50		6	2437	20.80	21.50	
			11	2462	20.20	21.50		11	2462	20.60	21.50	
	ANT4	DSSS 802.11b	1	2412	19.00	20.25	Yes	1	2412	18.71	20.25	Yes
			6	2437	19.30	20.25		6	2437	18.75	20.25	
			11	2462	19.20	20.25		11	2462	18.77	20.25	
Power States 4	ANT3	DSSS 802.11b	1	2412	20.20	21.25	Yes	1	2412	16.78	17.75	Yes
			6	2437	20.56	21.25		6	2437	16.84	17.75	
			11	2462	20.20	21.25		11	2462	16.55	17.75	
	ANT4	DSSS 802.11b	1	2412	14.49	16.25	Yes	1	2412	14.49	16.25	Yes
			6	2437	14.95	16.25		6	2437	14.95	16.25	
			11	2462	14.69	16.25		11	2462	14.69	16.25	

**Note(s):**

- SAR is not required for channel 12 and 13 because the maximum output power and the measured output power for these two channels are not greater than those for the default test channels. Refer to KDB 248227 D01 section 3.1.



**Wi-Fi 5 GHz(Power States)**

For 5 GHz band, there are use 4 difference power states:

- Power State 1: 802.15.4ab-NB<sub>OFF</sub> | CELL<sub>OFF</sub>
- Power State 2: 802.15.4ab-NB<sub>OFF</sub> | CELL<sub>ON</sub>
- Power State 3: 802.15.4ab-NB<sub>ON</sub> | CELL<sub>OFF</sub>
- Power State 4: 802.15.4ab-NB<sub>ON</sub> | CELL<sub>ON</sub>

Mode	Bandwidth	Channel	Frequency	Maximum Output Power (dBm) Power State 1				Maximum Output Power (dBm) Power State 2				Maximum Output Power (dBm) Power State 3				Maximum Output Power (dBm) Power State 4				
				ANT5		ANT6		ANT5		ANT6		ANT5		ANT6		ANT5		ANT6		
				Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	
U-NII-1 5.2 GHz (SISO)	802.11a 20 MHz	36	5180	19.00	19.00	19.00	18.75	19.00	17.50	17.25	14.75	19.00	19.00	19.00	18.25	19.00	16.50	16.25	13.75	
		40	5200	19.50	19.50	19.50	18.75	19.50	17.50	17.25	14.75	19.50	19.50	19.50	18.25	19.25	16.50	16.25	13.75	
		44	5220	19.50	19.50	19.50	18.75	19.50	17.50	17.25	14.75	19.50	19.50	19.50	18.25	19.25	16.50	16.25	13.75	
		48	5240	19.50	19.50	19.50	18.75	19.50	17.50	17.25	14.75	19.50	19.50	19.50	18.25	19.25	16.50	16.25	13.75	
	802.11n/ac 40 MHz	38	5190	17.50	17.50	17.50	17.50	17.50	17.50	17.25	14.75	17.50	17.50	17.50	17.50	17.50	16.50	16.25	13.75	
		46	5230	20.00	20.00	20.00	18.75	20.00	17.50	17.25	14.75	20.00	20.00	20.00	18.25	19.25	16.50	16.25	13.75	
802.11ac 80 MHz	42	5210	17.50	17.50	17.50	17.50	17.50	17.50	17.25	14.75	17.50	17.50	17.50	17.50	17.50	16.50	16.25	13.75		
U-NII-2A 5.3 GHz (SISO)	802.11ax 20 MHz	52	5260	19.50	19.50	18.50	16.25	19.25	16.75	14.50	12.25	19.50	19.50	18.00	15.75	18.25	15.75	13.50	11.25	
		56	5280	19.50	19.50	18.50	16.25	19.25	16.75	14.50	12.25	19.50	19.50	18.00	15.75	18.25	15.75	13.50	11.25	
		60	5300	19.50	19.50	18.50	16.25	19.25	16.75	14.50	12.25	19.50	19.50	18.00	15.75	18.25	15.75	13.50	11.25	
		64	5320	19.00	19.00	18.50	16.25	19.00	16.75	14.50	12.25	19.00	19.00	18.00	15.75	18.25	15.75	13.50	11.25	
	802.11n/ac 40 MHz	54	5270	20.00	20.00	18.50	16.25	19.25	16.75	14.50	12.25	20.00	20.00	18.00	15.75	18.25	15.75	13.50	11.25	
		62	5310	17.50	17.50	17.50	16.25	17.50	16.75	14.50	12.25	17.50	17.50	17.50	15.75	17.50	15.75	13.50	11.25	
802.11ac 80 MHz	58	5290	16.00	16.00	16.00	16.00	16.00	16.00	14.50	12.25	16.00	16.00	16.00	15.75	16.00	15.75	13.50	11.25		
U-NII-2C 5.3 GHz (SISO)	802.11a 20 MHz	100	5500	18.75	18.75	18.75	16.50	18.50	15.75	16.00	12.50	18.75	18.75	18.75	16.00	17.50	14.75	15.00	11.50	
		104	5520	19.50	19.50	19.50	16.50	18.50	15.75	16.00	12.50	19.50	19.50	19.50	16.00	17.50	14.75	15.00	11.50	
		108	5540	19.50	19.50	19.50	16.50	18.50	15.75	16.00	12.50	19.50	19.25	19.50	16.00	17.50	14.75	15.00	11.50	
		112	5560	19.50	19.50	19.50	16.50	18.50	15.75	16.00	12.50	19.50	19.25	19.50	16.00	17.50	14.75	15.00	11.50	
		116	5580	19.50	19.50	19.50	16.50	18.50	15.75	16.00	12.50	19.50	19.25	19.50	16.00	17.50	14.75	15.00	11.50	
		120	5600	19.50	19.50	19.50	16.50	18.50	15.75	16.00	12.50	19.50	19.25	19.50	16.00	17.50	14.75	15.00	11.50	
		124	5620	19.50	19.50	19.50	16.50	18.50	15.75	16.00	12.50	19.50	19.25	19.50	16.00	17.50	14.75	15.00	11.50	
		128	5640	19.50	19.50	19.50	16.50	18.50	15.75	16.00	12.50	19.50	19.25	19.50	16.00	17.50	14.75	15.00	11.50	
		132	5660	19.50	19.50	19.50	16.25	18.50	15.75	16.00	12.25	19.50	19.25	19.50	15.75	17.50	14.75	15.00	11.25	
		136	5680	19.50	19.50	19.50	16.25	18.50	15.75	16.00	12.25	19.50	19.25	19.50	15.75	17.50	14.75	15.00	11.25	
		140	5700	18.50	18.50	18.50	16.25	18.50	15.75	16.00	12.25	18.50	19.25	18.50	15.75	17.50	14.75	15.00	11.25	
		144	5720	19.50	19.50	19.50	16.25	18.50	15.75	16.00	12.25	19.50	19.25	19.50	15.75	17.50	14.75	15.00	11.25	
	802.11n/ac 40 MHz	102	5510	16.50	16.50	16.50	16.50	16.50	15.75	16.00	12.50	16.50	16.50	16.00	16.50	16.50	14.75	15.00	11.50	
		110	5550	20.00	19.75	20.00	16.50	18.50	15.75	16.00	12.50	20.00	19.25	19.50	16.00	17.50	14.75	15.00	11.50	
		118	5590	20.00	19.75	20.00	16.50	18.50	15.75	16.00	12.50	20.00	19.25	19.50	16.00	17.50	14.75	15.00	11.50	
		126	5630	20.00	19.75	20.00	16.50	18.50	15.75	16.00	12.50	20.00	19.25	19.50	16.00	17.50	14.75	15.00	11.50	
		134	5670	20.00	19.75	20.00	16.25	18.50	15.75	16.00	12.25	20.00	19.25	19.50	15.75	17.50	14.75	15.00	11.25	
		142	5710	20.00	19.75	20.00	16.25	18.50	15.75	16.00	12.25	20.00	19.25	19.50	15.75	17.50	14.75	15.00	11.25	
	802.11ac 80 MHz	106	5530	16.00	16.00	16.00	16.00	16.00	15.75	16.00	12.50	16.00	16.00	16.00	16.00	16.00	14.75	15.00	11.50	
		122	5610	20.00	19.75	20.00	16.50	18.50	15.75	16.00	12.50	20.00	19.25	19.50	16.00	17.50	14.75	15.00	11.50	
		138	5690	20.00	19.75	20.00	16.25	18.50	15.75	16.00	12.25	20.00	19.25	19.50	16.00	17.50	14.75	15.00	11.25	
	U-NII-3 5.8 GHz (SISO)	802.11a/n/ac 20 MHz	149	5745	21.00	19.25	20.50	16.25	20.00	15.25	16.50	12.25	21.00	18.75	20.00	15.75	19.00	14.25	15.50	11.25
			153	5765	21.00	19.25	20.50	16.25	20.00	15.25	16.50	12.25	21.00	18.75	20.00	15.75	19.00	14.25	15.50	11.25
			157	5785	21.00	19.25	20.50	16.25	20.00	15.25	16.50	12.25	21.00	18.75	20.00	15.75	19.00	14.25	15.50	11.25
			161	5805	21.00	19.25	20.50	16.25	20.00	15.25	16.50	12.25	21.00	18.75	20.00	15.75	19.00	14.25	15.50	11.25
			165	5825	21.00	19.25	20.50	16.25	20.00	15.25	16.50	12.25	21.00	18.75	20.00	15.75	19.00	14.25	15.50	11.25
			169	5845	21.00	19.25	20.50	16.25	20.00	15.25	16.50	12.25	21.00	18.75	20.00	15.75	19.00	14.25	15.50	11.25
		802.11n/ac 40 MHz	151	5755	20.00	19.25	20.00	16.25	20.00	15.25	16.50	12.25	20.00	18.75	20.00	15.75	19.00	14.25	15.50	11.25
			159	5795	20.00	19.25	20.00	16.25	20.00	15.25	16.50	12.25	20.00	18.75	20.00	15.75	19.00	14.25	15.50	11.25
802.11ac 80 MHz		155	5775	20.00	19.25	20.00	16.25	20.00	15.25	16.50	12.25	20.00	18.75	20.00	15.75	19.00	14.25	15.50	11.25	

**Wi-Fi 5 GHz Measured Results**

The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures.

When the same transmission mode configurations have the same maximum output power on the same channel for the 802.11 a/g/n/ac modes, the channel in the lower order/sequence 802.11 mode (i.e. a, g, n then ac) is selected.

SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum output power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band. Additional output power measurements were not deemed necessary.

Power Mode	Antenna	Power Mode A							Power Mode B							
		Band	Mode	Ch #	Freq. (MHz)	Meas Pwr (dBm)	Max Output Pwr (dBm)	SAR Test (Yes/No)	Band	Mode	Ch #	Freq. (MHz)	Meas Pwr (dBm)	Max Output Pwr (dBm)	SAR Test (Yes/No)	
Power State 1	ANT5	U-NII-2A	802.11n HT40	54	5270	18.80	20.00	Yes	U-NII-2A	802.11n HT40	54	5270	18.80	20.00	Yes	
				62	5310	16.05	17.50				62	5310	16.05	17.50		
		U-NII-2C	802.11ac VHT80	106	5530	15.00	16.00	Yes	U-NII-2C	802.11ac VHT80	106	5530	14.97	16.00	Yes	
				122	5610	18.26	20.00				122	5610	18.70	19.75		
				138	5690	18.00	20.00				138	5690	17.80	19.75		
		U-NII-3	802.11a	149	5745	19.00	21.00	Yes	U-NII-3	802.11ac VHT80	155	5775	17.44	19.25	Yes	
	157			5785	19.30	21.00	155				5775	17.44	19.25			
	165			5825	19.75	21.00	155				5775	17.44	19.25			
	ANT6	U-NII-1	802.11n HT40	38	5190	16.60	17.50	Yes	U-NII-1	802.11n HT40	38	5190	16.60	17.50	Yes	
				46	5230	19.21	20.00				46	5230	17.48	18.75		
		U-NII-2C	802.11ac VHT80	106	5530	15.20	16.00	Yes	U-NII-2C	802.11ac VHT80	106	5530	14.93	16.00	Yes	
				122	5610	18.50	20.00				122	5610	14.55	16.50		
				138	5690	18.50	20.00				138	5690	14.70	16.25		
		U-NII-3	802.11a	149	5745	19.25	20.50	Yes	U-NII-3	802.11ac VHT80	155	5775	14.60	16.25	Yes	
157	5785			19.30	20.50	155	5775				14.60	16.25				
165	5825			19.25	20.50	155	5775				14.60	16.25				
Power State 2	ANT5	U-NII-1	802.11n HT40	38	5190	16.60	17.50	Yes	U-NII-1	802.11ac VHT80	42	5210	16.02	17.50	Yes	
				46	5230	18.92	20.00				42	5210	16.02	17.50		
		U-NII-2C	802.11ac VHT80	106	5530	14.90	16.00	Yes	U-NII-2C	802.11ac VHT80	106	5530	14.67	15.75	Yes	
				122	5610	17.01	18.50				122	5610	14.40	15.75		
				138	5690	16.50	18.50				138	5690	13.80	15.75		
		U-NII-3	802.11ac VHT80	155	5775	18.21	20.00	Yes	U-NII-3	802.11ac VHT80	155	5775	13.60	15.25	Yes	
	ANT6	U-NII-1	802.11ac VHT80	42	5210	16.09	17.25	Yes	U-NII-1	802.11ac VHT80	42	5210	14.02	14.75	Yes	
				106	5530	14.20	16.00				106	5530	10.40	12.50		
		U-NII-2C	802.11ac VHT80	122	5610	14.37	16.00	Yes	U-NII-2C	802.11ac VHT80	122	5610	10.62	12.50	Yes	
				138	5690	14.00	16.00				138	5690	10.50	12.25		
				155	5775	15.20	16.50				155	5775	10.80	12.25		
		U-NII-3	802.11ac VHT80	155	5775	15.20	16.50	Yes	U-NII-3	802.11ac VHT80	155	5775	10.80	12.25	Yes	
	Power State 3	ANT5	U-NII-2A	802.11n HT40	54	5270	18.80	20.00	Yes	U-NII-2A	802.11n HT40	54	5270	18.80	20.00	Yes
					62	5310	16.10	17.50				62	5310	16.05	17.50	
U-NII-2C			802.11ac VHT80	106	5530	15.00	16.00	Yes	U-NII-2C	802.11ac VHT80	106	5530	14.97	16.00	Yes	
				122	5610	18.26	20.00				122	5610	18.70	19.25		
				138	5690	18.00	20.00				138	5690	17.80	19.25		
U-NII-3			802.11a	149	5745	19.00	21.00	Yes	U-NII-3	802.11ac VHT80	155	5775	17.44	18.75	Yes	
		157		5785	19.30	21.00	155				5775	17.44	18.75			
		165		5825	19.75	21.00	155				5775	17.44	18.75			
ANT6		U-NII-1	802.11n HT40	38	5190	16.60	17.50	Yes	U-NII-1	802.11n HT40	38	5190	16.60	17.50	Yes	
				46	5230	19.21	20.00				46	5230	17.48	18.25		
		U-NII-2C	802.11ac VHT80	106	5530	15.20	16.00	Yes	U-NII-2C	802.11ac VHT80	106	5530	14.93	16.00	Yes	
				122	5610	18.40	19.50				122	5610	14.55	16.00		
				138	5690	18.50	19.50				138	5690	14.70	15.75		
		U-NII-3	802.11ac VHT80	155	5775	18.64	20.00	Yes	U-NII-3	802.11ac VHT80	155	5775	14.60	15.75	Yes	
Power State 4	ANT5	U-NII-1	802.11n HT40	38	5190	16.60	17.50	Yes	U-NII-2A	802.11ac VHT80	58	5290	16.02	16.50	Yes	
				46	5230	18.92	19.25				58	5290	16.02	16.50		
		U-NII-2C	802.11ac VHT80	106	5530	14.90	16.00	Yes	U-NII-2C	802.11ac VHT80	106	5530	14.67	14.75	Yes	
				122	5610	17.01	17.50				122	5610	14.40	14.75		
				138	5690	16.50	17.50				138	5690	13.80	14.75		
		U-NII-3	802.11ac VHT80	155	5775	18.21	19.00	Yes	U-NII-3	802.11ac VHT80	155	5775	13.60	14.25	Yes	
	ANT6	U-NII-2A	802.11ac VHT80	58	5290	16.09	16.25	Yes	U-NII-2A	802.11ac VHT80	58	5290	12.76	13.75	Yes	
				106	5530	14.20	15.00				106	5530	10.40	11.50		
		U-NII-2C	802.11ac VHT80	122	5610	14.37	15.00	Yes	U-NII-2C	802.11ac VHT80	122	5610	10.62	11.50	Yes	
				138	5690	14.00	15.00				138	5690	10.50	11.25		
				155	5775	15.20	15.50				155	5775	10.80	11.25		
		U-NII-3	802.11ac VHT80	155	5775	15.20	15.50	Yes	U-NII-3	802.11ac VHT80	155	5775	10.80	11.25	Yes	



### 9.9. Bluetooth

According to KDB 447498 D01 apply to determine simultaneous transmission SAR test exclusion for Wi-Fi MIMO. If the sum of 1-g single transmission chain SAR measurements is <1.6W/kg and/or the MIMO output power is equal or less than a single chain, then no additional SAR measurements for simultaneously at the specified maximum output power of MIMO operation.

When antennas are spatially separated to the extent that SAR distributions do not overlap and can be treated independently, SAR compliance for simultaneous transmission is determined separately for each individual antenna.

#### Maximum Output Power for Bluetooth ( $P_{low}$ , $P_{high}$ , and $P_{standalone}$ )

For Bluetooth, there are three use cases:

- Bluetooth  $P_{low}$  is used with Wi-Fi 5GHz, 802.15.4ab NB, and/or WWAN antennas are active.
- Bluetooth  $P_{high}$  is used when Wi-Fi 5GHz or 802.15.4ab NB antenna is active and WWAN antenna is inactive or with Wi-Fi inactive and WWAN antenna is active.
- Bluetooth  $P_{standalone}$  is used with Wi-Fi, 802.15.4ab NB, and WWAN antennas are inactive.

Mode	Maximum Output Power (dBm)											
	Bluetooth $P_{low}$				Bluetooth $P_{high}$				Bluetooth $P_{standalone}$			
	ANT3		ANT4		ANT3		ANT4		ANT3		ANT4	
	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B	Mode A	Mode B
GFSK	15.5	11.5	9.5	10.5	20.0	17.5	15.5	16.5	20.0	20.0	20.0	20.0
EDR	15.5	11.5	9.5	10.5	16.5	16.5	15.5	16.5	16.5	16.5	16.5	16.5
LE1M	15.5	11.5	9.5	10.5	21.0	17.5	15.5	16.5	21.0	21.0	20.5	20.5
LE2M	15.5	11.5	9.5	10.5	21.0	17.5	15.5	16.5	21.0	21.0	20.5	20.5
HDR4	12.5	11.5	9.5	10.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
HDR8	13.5	11.5	9.5	10.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5

This device supports Bluetooth beamforming. SAR measurement is not required for Beamforming when the output power is equal or less than a single chain. Please refer to BT Maximum Output Power.

#### Bluetooth Measured Results

Power Mode	Antenna	Mode	Ch #	Freq. (MHz)	Power Mode A			Mode	Ch #	Freq. (MHz)	Power Mode B		
					Meas Pwr	Max Output Pwr	SAR Test (Yes/No)				Meas Pwr	Max Output Pwr	SAR Test (Yes/No)
Bluetooth $P_{low}$	ANT3	GFSK	0	2402	13.79	15.5	Yes	GFSK	0	2402	10.05	11.5	Yes
			39	2441	14.08	15.5			39	2441	10.68	11.5	
			78	2480	13.73	15.5			78	2480	10.01	11.5	
	ANT4	GFSK	0	2402	8.25	9.5	Yes	GFSK	0	2402	9.04	10.5	Yes
			39	2441	8.52	9.5			39	2441	9.02	10.5	
			78	2480	8.49	9.5			78	2480	9.10	10.5	
Bluetooth $P_{high}$	ANT3	LE 1 Mbps	0	2402	19.42	21.0	Yes	GFSK	0	2402	15.50	17.5	Yes
			19	2440	19.73	21.0			39	2441	15.90	17.5	
			39	2480	19.41	21.0			78	2480	15.50	17.5	
	ANT4	GFSK	0	2402	14.61	15.5	Yes	GFSK	0	2402	14.70	16.5	Yes
			39	2441	14.48	15.5			39	2441	15.30	16.5	
			78	2480	14.75	15.5			78	2480	15.30	16.5	
Bluetooth $P_{standalone}$	ANT3	LE 1 Mbps	0	2402	19.42	21.0	Yes	LE 1 Mbps	0	2402	19.42	21.0	Yes
			19	2440	19.73	21.0			19	2440	19.73	21.0	
			39	2480	19.41	21.0			39	2480	19.41	21.0	
	ANT4	LE 1 Mbps	0	2402	19.88	20.5	Yes	LE 1 Mbps	0	2402	19.88	20.5	Yes
			19	2440	19.44	20.5			19	2440	19.44	20.5	
			39	2480	19.74	20.5			39	2480	19.74	20.5	

**Bluetooth Measured Duty Cycle Results**

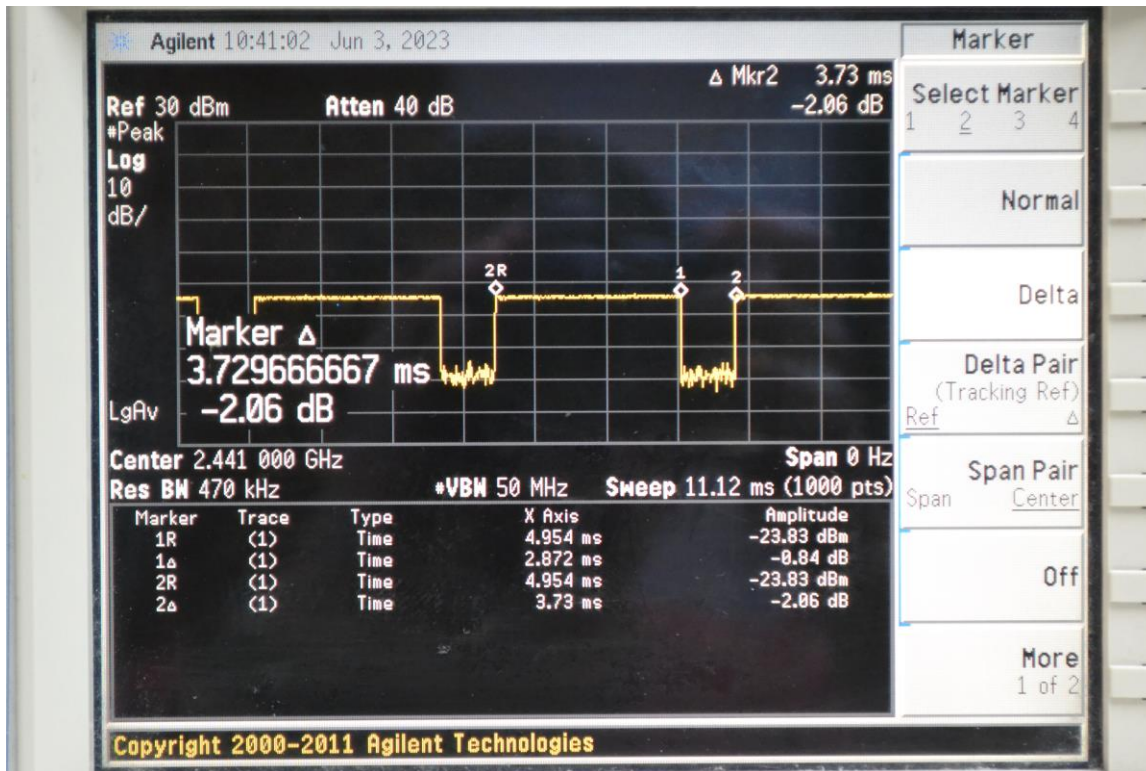
Mode	Type	T on (ms)	Period (ms)	Duty Cycle	Crest Factor (1/duty cycle)
GFSK	DH5	2.872	3.73	77.0%	1.30

**Note(s):**

Duty Cycle = (T on / period) \* 100%

**Duty Cycle plots**

GFSK



## 9.10. MSS (Mobile Satellite Service)

This device supports Mobile Satellite Service with Tx over L-Band (1610 – 1626.5 MHz) and Rx over S-Band (2483.5 – 2500 MHz).

Radio Astronomy Zone exclusion requirement is implemented by Geo-fencing in Software. Transmit frequency will be changed based on network direction when Astronomy site location is detected.

### Maximum Output Power for MSS (ANT1 & ANT4)

Band	Mode	Ch #	Freq. (MHz)	ANT 1 Power Mode B (dBm)		ANT 4 Power Mode B (dBm)	
				Meas Pwr	Max Output Pwr	Meas Pwr	Max Output Pwr
MSS L-Band	1-PRB SC-FDMA	262316	1610.1	21.6	22.7	20.4	20.5
		262391	1617.6	21.9	22.7	20.5	20.5
		262466	1625.1	21.7	22.7	20.3	20.5

## 9.11. 802.15.4ab NB

802.15.4ab - NB in UNII-3 band. Modulation O-QPSK is used. 48 channels are available, each with a bandwidth of 2.5 MHz and a channel separation of 2.5 MHz, spanning from 5728.75 MHz to 5846.25 MHz. The maximum source-based duty cycle is 10%, which occurs during a mixed mode connection (250kbps initialization packet +500 kbps data packet), with 7 parallel connections.

### 802.15.4ab NB Measured Results

Antenna	Band	Mode	Ch #	Freq. (MHz)	Power Mode A (dBm)		Power Mode B (dBm)	
					Meas Pwr	Max Output Pwr	Meas Pwr	Max Output Pwr
ANT5	802.15.4ab NB	BPSK, O-QPSK	1	5728.75	12.16	12.50	12.16	12.50
			18	5786.25	12.26	12.50	12.26	12.50
			30	5846.25	12.18	12.50	12.18	12.50
Antenna	Band	Mode	Ch #	Freq. (MHz)	Power Mode A (dBm)		Power Mode B (dBm)	
ANT6	802.15.4ab NB	BPSK, O-QPSK	1	5728.75	15.40	16.75	14.68	15.25
			18	5786.25	15.46	16.75	14.73	15.25
			30	5846.25	15.42	16.75	14.65	15.25

### 802.15.4ab NB Measured Duty Cycle Results

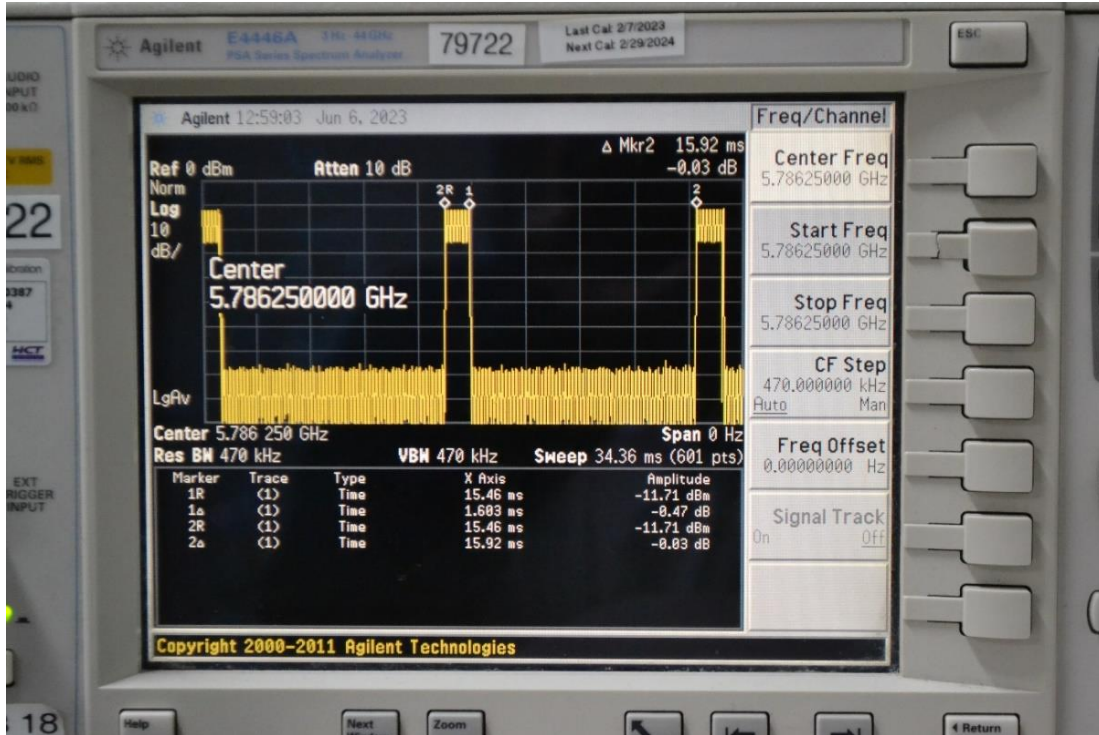
Modulation	Type	T on (ms)	Period (ms)	Duty Cycle	Crest Factor (1/duty cycle)
O-QPSK	Mixed mode	1.603	15.92	10.07%	9.93

#### Note(s):

Duty Cycle = (T on / period) \* 100%

# Duty Cycle plots

O-QPSK



## 10. Measured and Reported (Scaled) SAR Results

### SAR Test Reduction criteria are as follows:

- Reported SAR(W/kg) for WWAN and Bluetooth = Measured SAR \*Maximum Output Power Scaling Factor
- Reported SAR(W/kg) for Wi-Fi = Measured SAR \* Maximum Output Power scaling factor \* Duty Cycle scaling factor
- Duty Cycle scaling factor = 1 / Duty cycle (%)

### KDB 447498 D01 General RF Exposure Guidance:

Testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

- $\leq 0.8$  W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\leq 100$  MHz
- $\leq 0.6$  W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
- $\leq 0.4$  W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\geq 200$  MHz

### KDB 648474 D04 Handset SAR:

With headset attached, when the reported SAR for body-worn accessory, measured without a headset connected to the handset, is  $> 1.2$  W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

### KDB 648474 D04 Handset SAR (Phablet Only):

For smart phones, with a display diagonal dimension  $> 15.0$  cm or an overall diagonal dimension  $> 16.0$  cm.

When hotspot mode does not apply, 10-g Extremity SAR is required for all surfaces and edges with an antenna located at  $\leq 25$  mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR  $> 1.2$  W/kg; however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.

10-g Extremity SAR testing is not required since all 1-g reported SAR  $< 1.2$  W/kg for hotspot mode.

### KDB 941225 D01 SAR test for 3G devices:

When the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq \frac{1}{4}$  dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode.

### KDB 941225 D05 SAR for LTE Devices:

SAR test reduction is applied using the following criteria:

- Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel.
- When the reported SAR is  $> 0.8$  W/kg, testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel.
- Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are  $> 0.8$  W/kg. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation  $< 1.45$  W/kg.
- Testing for 16-QAM modulation is not required because the reported SAR for QPSK is  $< 1.45$  W/Kg and its output power is not more than 0.5 dB higher than that of QPSK.
- Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is  $< 1.45$  W/Kg and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.
- For LTE bands that do not support at least three non-overlapping channels in certain channel bandwidths, test the available non-overlapping channels instead. When a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing; therefore, the requirement for H, M and L channels may not fully apply.

**KDB 248227 D01 SAR meas for 802.11:**

SAR test reduction for 802.11 Wi-Fi transmission mode configurations are considered separately for DSSS and OFDM. An initial test position is determined to reduce the number of tests required for certain exposure configurations with multiple test positions. An initial test configuration is determined for each frequency band and aggregated band according to maximum output power, channel bandwidth, wireless mode configurations and other operating parameters to streamline the measurement requirements. For 2.4 GHz DSSS, either the initial test position or DSSS procedure is applied to reduce the number of SAR tests; these are mutually exclusive. For OFDM, an initial test position is only applicable to next to the ear, UMPC mini-tablet and hotspot mode configurations, which is tested using the initial test configuration to facilitate test reduction. For other exposure conditions with a fixed test position, SAR test reduction is determined using only the initial test configuration.

The multiple test positions require SAR measurements in head, hotspot mode or UMPC mini-tablet configurations may be reduced according to the highest reported SAR determined using the initial test position(s) by applying the DSSS or OFDM SAR measurement procedures in the required wireless mode test configuration(s). The initial test position(s) is measured using the highest measured maximum output power channel in the required wireless mode test configuration(s). When the reported SAR for the initial test position is:

- $\leq 0.4$  W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and wireless mode combination within the frequency band or aggregated band. DSSS and OFDM configurations are considered separately according to the required SAR procedures.
- $> 0.4$  W/kg, SAR is repeated using the same wireless mode test configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel, until the reported SAR is  $\leq 0.8$  W/kg or all required test positions are tested.
  - For subsequent test positions with equivalent test separation distance or when exposure is dominated by coupling conditions, the position for maximum coupling condition should be tested.
  - When it is unclear, all equivalent conditions must be tested.
- For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is  $> 0.8$  W/kg, measure the SAR for these positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required test channels are considered.
  - The additional power measurements required for this step should be limited to those necessary for identifying subsequent highest output power channels to apply the test reduction.
- When the specified maximum output power is the same for both UNII 1 and UNII 2A, begin SAR measurements in UNII 2A with the channel with the highest measured output power. If the reported SAR for UNII 2A is  $\leq 1.2$  W/kg, SAR is not required for UNII 1; otherwise treat the remaining bands separately and test them independently for SAR.
- When the specified maximum output power is different between UNII 1 and UNII 2A, begin SAR with the band that has the higher specified maximum output. If the highest reported SAR for the band with the highest specified power is  $\leq 1.2$  W/kg, testing for the band with the lower specified output power is not required; otherwise test the remaining bands independently for SAR.

To determine the initial test position, Area Scans were performed to determine the position with the *Maximum Value of SAR (measured)*. The position that produced the highest *Maximum Value of SAR* is considered the worst case position; thus used as the initial test position.



### 10.1. GSM850

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	GPRS 2 Slots	Mode A	0	Left Cheek	190	836.6	32.0	31.5	0.122	0.137	0.095	0.107	
ANT 1	Head	GPRS 2 Slots	Mode A	0	Left Tilt	190	836.6	32.0	31.5	0.061	0.068	0.049	0.055	
ANT 1	Head	GPRS 2 Slots	Mode A	0	Right Cheek	190	836.6	32.0	31.5	0.189	0.212	0.142	0.159	
ANT 1	Head	GPRS 2 Slots	Mode A	0	Right Tilt	190	836.6	32.0	31.5	0.074	0.083	0.060	0.067	
ANT 1	Body & Hotspot	GPRS 2 Slots	Mode B	5	Back	190	836.6	32.0	31.5	0.478	<b>0.536</b>	0.263	0.295	1
ANT 1	Body & Hotspot	GPRS 2 Slots	Mode B	5	Front	190	836.6	32.0	31.5	0.159	0.178	0.088	0.099	
ANT 1	Hotspot	GPRS 2 Slots	Mode B	5	Edge Right	190	836.6	32.0	31.5	0.480	<b>0.539</b>	0.309	0.347	2
ANT 1	Hotspot	GPRS 2 Slots	Mode B	5	Edge Bottom	190	836.6	32.0	31.5	0.130	0.146	0.058	0.065	
ANT 1	Hotspot	GPRS 2 Slots	Mode B	5	Edge Left	190	836.6	32.0	31.5	0.125	0.140	0.080	0.090	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	GPRS 2 Slots	Mode A	0	Left Cheek	190	836.6	29.8	29.7	0.368	0.377	0.272	0.278	
ANT 2	Head	GPRS 2 Slots	Mode A	0	Left Tilt	190	836.6	29.8	29.7	0.136	0.139	0.083	0.085	
ANT 2	Head	GPRS 2 Slots	Mode A	0	Right Cheek	128	824.4	29.8	29.7	0.690	<b>0.706</b>	0.450	0.460	3
ANT 2	Head	GPRS 2 Slots	Mode A	0	Right Cheek	190	836.6	29.8	29.7	0.672	0.688	0.440	0.450	
ANT 2	Head	GPRS 2 Slots	Mode A	0	Right Cheek	251	848.8	29.8	29.7	0.607	0.621	0.398	0.407	
ANT 2	Head	GPRS 2 Slots	Mode A	0	Right Tilt	190	836.6	29.8	29.7	0.335	0.343	0.188	0.192	
ANT 2	Body & Hotspot	GPRS 2 Slots	Mode B	5	Back	190	836.6	31.5	31.4	0.410	0.420	0.271	0.277	
ANT 2	Body & Hotspot	GPRS 2 Slots	Mode B	5	Front	190	836.6	31.5	31.4	0.279	0.285	0.190	0.194	
ANT 2	Hotspot	GPRS 2 Slots	Mode B	5	Edge Top	190	836.6	31.5	31.4	0.160	0.164	0.083	0.085	
ANT 2	Hotspot	GPRS 2 Slots	Mode B	5	Edge Right	190	836.6	31.5	31.4	0.125	0.128	0.080	0.082	
ANT 2	Hotspot	GPRS 2 Slots	Mode B	5	Edge Left	190	836.6	31.5	31.4	0.280	0.287	0.180	0.184	

### 10.2. GSM1900

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	GPRS 2 Slots	Mode A	0	Left Cheek	661	1880	30.5	30.5	0.110	0.110	0.071	0.071	
ANT 1	Head	GPRS 2 Slots	Mode A	0	Left Tilt	661	1880	30.5	30.5	0.070	0.070	0.043	0.043	
ANT 1	Head	GPRS 2 Slots	Mode A	0	Right Cheek	661	1880	30.5	30.5	0.276	0.276	0.168	0.168	
ANT 1	Head	GPRS 2 Slots	Mode A	0	Right Tilt	661	1880	30.5	30.5	0.064	0.064	0.042	0.042	
ANT 1	Body & Hotspot	GPRS 2 Slots	Mode B	5	Back	661	1880	25.4	24.7	0.333	0.391	0.173	0.203	
ANT 1	Body & Hotspot	GPRS 2 Slots	Mode B	5	Front	661	1880	25.4	24.7	0.213	0.250	0.114	0.134	
ANT 1	Hotspot	GPRS 2 Slots	Mode B	5	Edge Right	661	1880	25.4	24.7	0.212	0.249	0.102	0.120	
ANT 1	Hotspot	GPRS 2 Slots	Mode B	5	Edge Bottom	661	1880	25.4	24.7	0.553	0.650	0.257	0.302	
ANT 1	Hotspot	GPRS 2 Slots	Mode B	5	Edge Left	661	1880	25.4	24.7	0.013	0.015	0.007	0.008	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	GPRS 2 Slots	Mode A	0	Left Cheek	661	1880	26.3	25.4	0.233	0.287	0.125	0.154	
ANT 2	Head	GPRS 2 Slots	Mode A	0	Left Tilt	661	1880	26.3	25.4	0.244	0.300	0.122	0.150	
ANT 2	Head	GPRS 2 Slots	Mode A	0	Right Cheek	661	1880	26.3	25.4	0.552	0.679	0.296	0.364	
ANT 2	Head	GPRS 2 Slots	Mode A	0	Right Tilt	661	1880	26.3	25.4	0.622	<b>0.765</b>	0.300	0.369	4
ANT 2	Body & Hotspot	GPRS 2 Slots	Mode B	5	Back	661	1880	26.1	25.4	0.446	0.524	0.209	0.246	
ANT 2	Body & Hotspot	GPRS 2 Slots	Mode B	5	Front	661	1880	26.1	25.4	0.293	0.344	0.149	0.175	
ANT 2	Hotspot	GPRS 2 Slots	Mode B	5	Edge Top	512	1850.2	26.1	25.3	0.705	0.848	0.321	0.386	
ANT 2	Hotspot	GPRS 2 Slots	Mode B	5	Edge Top	661	1880	26.1	25.4	0.685	0.805	0.313	0.368	
ANT 2	Hotspot	GPRS 2 Slots	Mode B	5	Edge Top	810	1909.8	26.1	25.4	0.612	0.719	0.279	0.328	
ANT 2	Hotspot	GPRS 2 Slots	Mode B	5	Edge Right	661	1880	26.1	25.4	0.011	0.013	0.005	0.006	
ANT 2	Hotspot	GPRS 2 Slots	Mode B	5	Edge Left	661	1880	26.1	25.4	0.279	0.328	0.140	0.164	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	GPRS 2 Slots	Mode A	0	Left Cheek	661	1880	27.7	27.4	0.297	0.318	0.183	0.196	
ANT 3	Head	GPRS 2 Slots	Mode A	0	Left Tilt	661	1880	27.7	27.4	0.100	0.107	0.065	0.070	
ANT 3	Head	GPRS 2 Slots	Mode A	0	Right Cheek	661	1880	27.7	27.4	0.115	0.123	0.076	0.081	
ANT 3	Head	GPRS 2 Slots	Mode A	0	Right Tilt	661	1880	27.7	27.4	0.093	0.100	0.057	0.061	
ANT 3	Body & Hotspot	GPRS 2 Slots	Mode B	5	Back	661	1880	27.8	27.0	0.482	0.579	0.260	0.313	
ANT 3	Body & Hotspot	GPRS 2 Slots	Mode B	5	Front	661	1880	27.8	27.0	0.311	0.374	0.170	0.204	
ANT 3	Hotspot	GPRS 2 Slots	Mode B	5	Edge Bottom	661	1880	27.8	27.0	0.086	0.103	0.040	0.048	
ANT 3	Hotspot	GPRS 2 Slots	Mode B	5	Edge Left	661	1880	27.8	27.0	0.624	0.750	0.306	0.368	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 4	Head	GPRS 2 Slots	Mode A	0	Left Cheek	661	1880	24.3	23.3	0.525	0.661	0.234	0.295	
ANT 4	Head	GPRS 2 Slots	Mode A	0	Left Tilt	661	1880	24.3	23.3	0.136	0.171	0.072	0.091	
ANT 4	Head	GPRS 2 Slots	Mode A	0	Right Cheek	661	1880	24.3	23.3	0.128	0.161	0.069	0.087	
ANT 4	Head	GPRS 2 Slots	Mode A	0	Right Tilt	661	1880	24.3	23.3	0.066	0.083	0.037	0.047	
ANT 4	Body & Hotspot	GPRS 2 Slots	Mode B	5	Back	661	1880	26.0	25.3	0.516	<b>0.606</b>	0.244	0.287	5
ANT 4	Body & Hotspot	GPRS 2 Slots	Mode B	5	Front	661	1880	26.0	25.3	0.322	0.378	0.155	0.182	
ANT 4	Hotspot	GPRS 2 Slots	Mode B	5	Edge Top	661	1880	26.0	25.3	0.135	0.159	0.072	0.085	
ANT 4	Hotspot	GPRS 2 Slots	Mode B	5	Edge Right	512	1850.2	26.0	24.7	0.654	0.882	0.305	0.411	
ANT 4	Hotspot	GPRS 2 Slots	Mode B	5	Edge Right	661	1880	26.0	25.3	0.691	0.812	0.320	0.376	
ANT 4	Hotspot	GPRS 2 Slots	Mode B	5	Edge Right	810	1909.8	26.0	25.3	0.798	<b>0.938</b>	0.367	0.431	6

### 10.3. W-CDMA Band II

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	Rel. 99	Mode A	0	Left Cheek	9400	1880	24.5	24.2	0.128	0.137	0.084	0.090	
ANT 1	Head	Rel. 99	Mode A	0	Left Tilt	9400	1880	24.5	24.2	0.090	0.096	0.057	0.061	
ANT 1	Head	Rel. 99	Mode A	0	Right Cheek	9400	1880	24.5	24.2	0.269	0.288	0.166	0.178	
ANT 1	Head	Rel. 99	Mode A	0	Right Tilt	9400	1880	24.5	24.2	0.086	0.092	0.055	0.059	
ANT 1	Body & Hotspot	Rel. 99	Mode B	5	Back	9400	1880	19.4	18.5	0.377	0.464	0.195	0.240	
ANT 1	Body & Hotspot	Rel. 99	Mode B	5	Front	9400	1880	19.4	18.5	0.229	0.282	0.123	0.151	
ANT 1	Hotspot	Rel. 99	Mode B	5	Edge Right	9400	1880	19.4	18.5	0.251	0.309	0.120	0.148	
ANT 1	Hotspot	Rel. 99	Mode B	5	Edge Bottom	9400	1880	19.4	18.5	0.598	0.736	0.279	0.343	
ANT 1	Hotspot	Rel. 99	Mode B	5	Edge Left	9400	1880	19.4	18.5	0.018	0.022	0.009	0.011	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	Rel. 99	Mode A	0	Left Cheek	9400	1880	20.3	19.5	0.243	0.292	0.127	0.153	
ANT 2	Head	Rel. 99	Mode A	0	Left Tilt	9400	1880	20.3	19.5	0.280	0.337	0.140	0.168	
ANT 2	Head	Rel. 99	Mode A	0	Right Cheek	9262	1852.4	20.3	19.4	0.763	<b>0.939</b>	0.398	0.490	7
ANT 2	Head	Rel. 99	Mode A	0	Right Cheek	9400	1880	20.3	19.5	0.742	0.892	0.396	0.476	
ANT 2	Head	Rel. 99	Mode A	0	Right Cheek	9538	1907.6	20.3	19.4	0.705	0.867	0.384	0.472	
ANT 2	Head	Rel. 99	Mode A	0	Right Tilt	9262	1852.4	20.3	19.4	0.763	0.939	0.363	0.447	
ANT 2	Head	Rel. 99	Mode A	0	Right Tilt	9400	1880	20.3	19.5	0.673	0.809	0.323	0.388	
ANT 2	Head	Rel. 99	Mode A	0	Right Tilt	9538	1907.6	20.3	19.4	0.629	0.774	0.306	0.376	
ANT 2	Body & Hotspot	Rel. 99	Mode B	5	Back	9400	1880	20.1	19.3	0.461	0.554	0.220	0.264	
ANT 2	Body & Hotspot	Rel. 99	Mode B	5	Front	9400	1880	20.1	19.3	0.394	0.474	0.198	0.238	
ANT 2	Hotspot	Rel. 99	Mode B	5	Edge Top	9262	1852.4	20.1	19.2	0.760	0.935	0.349	0.429	
ANT 2	Hotspot	Rel. 99	Mode B	5	Edge Top	9400	1880	20.1	19.3	0.750	0.902	0.344	0.414	
ANT 2	Hotspot	Rel. 99	Mode B	5	Edge Top	9538	1907.6	20.1	19.2	0.712	0.876	0.327	0.402	
ANT 2	Hotspot	Rel. 99	Mode B	5	Edge Right	9400	1880	20.1	19.3	0.007	0.008	0.003	0.004	
ANT 2	Hotspot	Rel. 99	Mode B	5	Edge Left	9400	1880	20.1	19.3	0.373	0.448	0.184	0.221	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	Rel. 99	Mode A	0	Left Cheek	9400	1880	21.7	21.3	0.202	0.221	0.124	0.136	
ANT 3	Head	Rel. 99	Mode A	0	Left Tilt	9400	1880	21.7	21.3	0.080	0.088	0.052	0.057	
ANT 3	Head	Rel. 99	Mode A	0	Right Cheek	9400	1880	21.7	21.3	0.092	0.101	0.061	0.067	
ANT 3	Head	Rel. 99	Mode A	0	Right Tilt	9400	1880	21.7	21.3	0.080	0.088	0.049	0.054	
ANT 3	Body & Hotspot	Rel. 99	Mode B	5	Back	9400	1880	21.8	20.9	0.469	0.577	0.269	0.331	
ANT 3	Body & Hotspot	Rel. 99	Mode B	5	Front	9400	1880	21.8	20.9	0.453	0.557	0.248	0.305	
ANT 3	Hotspot	Rel. 99	Mode B	5	Edge Bottom	9400	1880	21.8	20.9	0.103	0.127	0.057	0.070	
ANT 3	Hotspot	Rel. 99	Mode B	5	Edge Left	9262	1852.4	21.8	20.7	0.608	0.783	0.316	0.407	
ANT 3	Hotspot	Rel. 99	Mode B	5	Edge Left	9400	1880	21.8	20.9	0.676	0.832	0.347	0.427	
ANT 3	Hotspot	Rel. 99	Mode B	5	Edge Left	9538	1907.6	21.8	21.0	0.759	0.913	0.389	0.468	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 4	Head	Rel. 99	Mode A	0	Left Cheek	9400	1880	18.3	17.3	0.563	0.709	0.261	0.329	
ANT 4	Head	Rel. 99	Mode A	0	Left Tilt	9400	1880	18.3	17.3	0.301	0.379	0.156	0.196	
ANT 4	Head	Rel. 99	Mode A	0	Right Cheek	9400	1880	18.3	17.3	0.240	0.302	0.134	0.169	
ANT 4	Head	Rel. 99	Mode A	0	Right Tilt	9400	1880	18.3	17.3	0.147	0.185	0.080	0.101	
ANT 4	Body & Hotspot	Rel. 99	Mode B	5	Back	9400	1880	20.0	18.9	0.531	<b>0.684</b>	0.250	0.322	8
ANT 4	Body & Hotspot	Rel. 99	Mode B	5	Front	9400	1880	20.0	18.9	0.291	0.375	0.140	0.180	
ANT 4	Hotspot	Rel. 99	Mode B	5	Edge Top	9400	1880	20.0	18.9	0.137	0.176	0.073	0.094	
ANT 4	Hotspot	Rel. 99	Mode B	5	Edge Right	9262	1852.4	20.0	18.6	0.587	0.810	0.273	0.377	
ANT 4	Hotspot	Rel. 99	Mode B	5	Edge Right	9400	1880	20.0	18.9	0.677	0.872	0.314	0.405	
ANT 4	Hotspot	Rel. 99	Mode B	5	Edge Right	9538	1907.6	20.0	18.9	0.719	<b>0.926</b>	0.330	0.425	9



### 10.4. W-CDMA Band IV

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	Rel. 99	Mode A	0	Left Cheek	1413	1732.6	24.2	23.8	0.111	0.122	0.073	0.080	
ANT 1	Head	Rel. 99	Mode A	0	Left Tilt	1413	1732.6	24.2	23.8	0.081	0.089	0.050	0.055	
ANT 1	Head	Rel. 99	Mode A	0	Right Cheek	1413	1732.6	24.2	23.8	0.243	0.266	0.156	0.171	
ANT 1	Head	Rel. 99	Mode A	0	Right Tilt	1413	1732.6	24.2	23.8	0.062	0.068	0.040	0.044	
ANT 1	Body & Hotspot	Rel. 99	Mode B	5	Back	1413	1732.6	19.1	18.0	0.615	<b>0.792</b>	0.304	0.392	10
ANT 1	Body & Hotspot	Rel. 99	Mode B	5	Front	1413	1732.6	19.1	18.0	0.402	0.518	0.196	0.252	
ANT 1	Hotspot	Rel. 99	Mode B	5	Edge Right	1413	1732.6	19.1	18.0	0.180	0.232	0.093	0.120	
ANT 1	Hotspot	Rel. 99	Mode B	5	Edge Bottom	1312	1712.4	19.1	17.8	0.640	0.863	0.312	0.421	
ANT 1	Hotspot	Rel. 99	Mode B	5	Edge Bottom	1413	1732.6	19.1	18.0	0.688	0.886	0.331	0.426	
ANT 1	Hotspot	Rel. 99	Mode B	5	Edge Bottom	1513	1752.6	19.1	17.8	0.645	0.870	0.310	0.418	
ANT 1	Hotspot	Rel. 99	Mode B	5	Edge Left	1413	1732.6	19.1	18.0	0.003	0.004	0.002	0.003	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	Rel. 99	Mode A	0	Left Cheek	1413	1732.6	19.8	18.8	0.523	0.658	0.254	0.320	
ANT 2	Head	Rel. 99	Mode A	0	Left Tilt	1413	1732.6	19.8	18.8	0.539	0.679	0.256	0.322	
ANT 2	Head	Rel. 99	Mode A	0	Right Cheek	1312	1712.4	19.8	18.7	0.637	0.821	0.310	0.399	
ANT 2	Head	Rel. 99	Mode A	0	Right Cheek	1413	1732.6	19.8	18.8	0.678	0.854	0.330	0.415	
ANT 2	Head	Rel. 99	Mode A	0	Right Cheek	1513	1752.6	19.8	18.7	0.677	0.872	0.334	0.430	
ANT 2	Head	Rel. 99	Mode A	0	Right Tilt	1312	1712.4	19.8	18.7	0.701	0.903	0.323	0.416	
ANT 2	Head	Rel. 99	Mode A	0	Right Tilt	1413	1732.6	19.8	18.8	0.740	0.932	0.342	0.431	
ANT 2	Head	Rel. 99	Mode A	0	Right Tilt	1513	1752.6	19.8	18.7	0.725	<b>0.934</b>	0.337	0.434	11
ANT 2	Body & Hotspot	Rel. 99	Mode B	5	Back	1413	1732.6	19.8	18.9	0.580	0.714	0.279	0.343	
ANT 2	Body & Hotspot	Rel. 99	Mode B	5	Front	1413	1732.6	19.8	18.9	0.517	0.636	0.246	0.303	
ANT 2	Hotspot	Rel. 99	Mode B	5	Edge Top	1312	1712.4	19.8	19.0	0.681	0.819	0.313	0.376	
ANT 2	Hotspot	Rel. 99	Mode B	5	Edge Top	1413	1732.6	19.8	18.9	0.717	0.882	0.328	0.404	
ANT 2	Hotspot	Rel. 99	Mode B	5	Edge Top	1513	1752.6	19.8	18.8	0.675	0.850	0.309	0.389	
ANT 2	Hotspot	Rel. 99	Mode B	5	Edge Right	1413	1732.6	19.8	18.9	0.014	0.017	0.008	0.010	
ANT 2	Hotspot	Rel. 99	Mode B	5	Edge Left	1413	1732.6	19.8	18.9	0.136	0.167	0.071	0.087	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	Rel. 99	Mode A	0	Left Cheek	1413	1732.6	21.6	21.1	0.180	0.202	0.119	0.134	
ANT 3	Head	Rel. 99	Mode A	0	Left Tilt	1413	1732.6	21.6	21.1	0.082	0.092	0.054	0.061	
ANT 3	Head	Rel. 99	Mode A	0	Right Cheek	1413	1732.6	21.6	21.1	0.063	0.071	0.043	0.048	
ANT 3	Head	Rel. 99	Mode A	0	Right Tilt	1413	1732.6	21.6	21.1	0.073	0.082	0.046	0.052	
ANT 3	Body & Hotspot	Rel. 99	Mode B	5	Back	1413	1732.6	22.4	20.9	0.559	0.790	0.311	0.439	
ANT 3	Body & Hotspot	Rel. 99	Mode B	5	Front	1413	1732.6	22.4	20.9	0.459	0.648	0.257	0.363	
ANT 3	Hotspot	Rel. 99	Mode B	5	Edge Bottom	1413	1732.6	22.4	20.9	0.153	0.216	0.076	0.107	
ANT 3	Hotspot	Rel. 99	Mode B	5	Edge Left	1413	1732.6	22.4	20.9	0.518	0.732	0.284	0.401	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 4	Head	Rel. 99	Mode A	0	Left Cheek	1413	1732.6	19.1	18.4	0.648	0.761	0.307	0.361	
ANT 4	Head	Rel. 99	Mode A	0	Left Tilt	1413	1732.6	19.1	18.4	0.195	0.229	0.101	0.119	
ANT 4	Head	Rel. 99	Mode A	0	Right Cheek	1413	1732.6	19.1	18.4	0.198	0.233	0.112	0.132	
ANT 4	Head	Rel. 99	Mode A	0	Right Tilt	1413	1732.6	19.1	18.4	0.103	0.121	0.058	0.068	
ANT 4	Body & Hotspot	Rel. 99	Mode B	5	Back	1413	1732.6	20.7	20.5	0.515	0.539	0.256	0.268	
ANT 4	Body & Hotspot	Rel. 99	Mode B	5	Front	1413	1732.6	20.7	20.5	0.408	0.427	0.208	0.218	
ANT 4	Hotspot	Rel. 99	Mode B	5	Edge Top	1413	1732.6	20.7	20.5	0.154	0.161	0.073	0.076	
ANT 4	Hotspot	Rel. 99	Mode B	5	Edge Right	1312	1712.4	20.7	20.5	0.867	0.908	0.412	0.431	
ANT 4	Hotspot	Rel. 99	Mode B	5	Edge Right	1413	1732.6	20.7	20.5	0.883	0.925	0.420	0.440	
ANT 4	Hotspot	Rel. 99	Mode B	5	Edge Right	1513	1752.6	20.7	20.2	0.843	<b>0.946</b>	0.399	0.448	12

### 10.5. W-CDMA Band V

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	Rel. 99	Mode A	0	Left Cheek	4183	836.6	25.7	25.2	0.218	0.245	0.169	0.190	
ANT 1	Head	Rel. 99	Mode A	0	Left Tilt	4183	836.6	25.7	25.2	0.164	0.184	0.130	0.146	
ANT 1	Head	Rel. 99	Mode A	0	Right Cheek	4183	836.6	25.7	25.2	0.216	0.242	0.166	0.186	
ANT 1	Head	Rel. 99	Mode A	0	Right Tilt	4183	836.6	25.7	25.2	0.135	0.151	0.109	0.122	
ANT 1	Body & Hotspot	Rel. 99	Mode B	5	Back	4183	836.6	25.7	25.3	0.427	<b>0.468</b>	0.234	0.257	13
ANT 1	Body & Hotspot	Rel. 99	Mode B	5	Front	4183	836.6	25.7	25.3	0.347	0.380	0.195	0.214	
ANT 1	Hotspot	Rel. 99	Mode B	5	Edge Right	4183	836.6	25.7	25.3	0.593	<b>0.650</b>	0.384	0.421	14
ANT 1	Hotspot	Rel. 99	Mode B	5	Edge Bottom	4183	836.6	25.7	25.3	0.384	0.421	0.170	0.186	
ANT 1	Hotspot	Rel. 99	Mode B	5	Edge Left	4183	836.6	25.7	25.3	0.248	0.272	0.161	0.177	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	Rel. 99	Mode A	0	Left Cheek	4183	836.6	23.8	23.2	0.472	0.542	0.318	0.365	
ANT 2	Head	Rel. 99	Mode A	0	Left Tilt	4183	836.6	23.8	23.2	0.308	0.354	0.183	0.210	
ANT 2	Head	Rel. 99	Mode A	0	Right Cheek	4132	826.4	23.8	23.2	0.808	<b>0.928</b>	0.530	0.609	15
ANT 2	Head	Rel. 99	Mode A	0	Right Cheek	4183	836.6	23.8	23.2	0.760	0.873	0.500	0.574	
ANT 2	Head	Rel. 99	Mode A	0	Right Cheek	4233	846.6	23.8	23.2	0.716	0.822	0.471	0.541	
ANT 2	Head	Rel. 99	Mode A	0	Right Tilt	4183	836.6	23.8	23.2	0.405	0.465	0.241	0.277	
ANT 2	Body & Hotspot	Rel. 99	Mode B	5	Back	4183	836.6	24.7	24.7	0.426	0.426	0.287	0.287	
ANT 2	Body & Hotspot	Rel. 99	Mode B	5	Front	4183	836.6	24.7	24.7	0.274	0.274	0.185	0.185	
ANT 2	Hotspot	Rel. 99	Mode B	5	Edge Top	4183	836.6	24.7	24.7	0.145	0.145	0.076	0.076	
ANT 2	Hotspot	Rel. 99	Mode B	5	Edge Right	4183	836.6	24.7	24.7	0.181	0.181	0.117	0.117	
ANT 2	Hotspot	Rel. 99	Mode B	5	Edge Left	4183	836.6	24.7	24.7	0.293	0.293	0.190	0.190	

### 10.6. LTE Band 5 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	QPSK	Mode A	0	Left Cheek	20525	836.5	1	25	25.7	24.9	0.216	0.260	0.171	0.206	
ANT 1	Head	QPSK	Mode A	0	Left Cheek	20525	836.5	25	12	24.7	24.1	0.159	0.183	0.126	0.145	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	20525	836.5	1	25	25.7	24.9	0.111	0.133	0.090	0.108	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	20525	836.5	25	12	24.7	24.1	0.090	0.103	0.073	0.084	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	20525	836.5	1	25	25.7	24.9	0.243	0.292	0.193	0.232	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	20525	836.5	25	12	24.7	24.1	0.212	0.243	0.164	0.188	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	20525	836.5	1	25	25.7	24.9	0.120	0.144	0.098	0.118	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	20525	836.5	25	12	24.7	24.1	0.102	0.117	0.082	0.094	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	20525	836.5	1	25	25.7	25.0	0.530	<b>0.623</b>	0.293	0.344	16
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	20525	836.5	25	12	24.7	24.1	0.428	0.491	0.237	0.272	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	20525	836.5	1	25	25.7	25.0	0.379	0.445	0.218	0.256	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	20525	836.5	25	12	24.7	24.1	0.307	0.352	0.177	0.203	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	20525	836.5	1	25	25.7	25.0	0.668	<b>0.785</b>	0.433	0.509	17
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	20525	836.5	25	12	24.7	24.1	0.538	0.618	0.349	0.401	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	20525	836.5	1	25	25.7	25.0	0.430	0.505	0.190	0.223	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	20525	836.5	25	12	24.7	24.1	0.350	0.402	0.154	0.177	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	20525	836.5	1	25	25.7	25.0	0.247	0.290	0.160	0.188	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	20525	836.5	25	12	24.7	24.1	0.200	0.230	0.130	0.149	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	QPSK	Mode A	0	Left Cheek	20525	836.5	1	25	23.8	23.2	0.517	0.594	0.372	0.427	
ANT 2	Head	QPSK	Mode A	0	Left Cheek	20525	836.5	25	12	23.7	23.1	0.516	0.592	0.371	0.426	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	20525	836.5	1	25	23.8	23.2	0.391	0.449	0.237	0.272	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	20525	836.5	25	12	23.7	23.1	0.391	0.449	0.237	0.272	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	20525	836.5	1	25	23.8	23.2	0.697	0.800	0.492	0.565	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	20525	836.5	25	12	23.7	23.1	0.704	<b>0.808</b>	0.496	0.569	18
ANT 2	Head	QPSK	Mode A	0	Right Cheek	20525	836.5	50	0	23.7	23.1	0.704	0.808	0.496	0.569	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	20525	836.5	1	25	23.8	23.2	0.450	0.517	0.257	0.295	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	20525	836.5	25	12	23.7	23.1	0.449	0.516	0.257	0.295	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	20525	836.5	1	25	24.7	24.4	0.445	0.477	0.295	0.316	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	20525	836.5	25	12	23.7	23.3	0.380	0.417	0.250	0.274	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	20525	836.5	1	25	24.7	24.4	0.302	0.324	0.209	0.224	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	20525	836.5	25	12	23.7	23.3	0.231	0.253	0.160	0.175	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	20525	836.5	1	25	24.7	24.4	0.167	0.179	0.081	0.087	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	20525	836.5	25	12	23.7	23.3	0.132	0.145	0.064	0.070	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	20525	836.5	1	25	24.7	24.4	0.174	0.186	0.113	0.121	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	20525	836.5	25	12	23.7	23.3	0.136	0.149	0.088	0.096	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	20525	836.5	1	25	24.7	24.4	0.296	0.317	0.193	0.207	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	20525	836.5	25	12	23.7	23.3	0.239	0.262	0.155	0.170	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	QPSK	Mode A	0	Left Cheek	20525	836.5	1	25	24.5	24.0	0.105	0.118	0.082	0.092	
ANT 3	Head	QPSK	Mode A	0	Left Cheek	20525	836.5	25	12	24.4	24.0	0.103	0.113	0.081	0.089	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	20525	836.5	1	25	24.5	24.0	0.075	0.084	0.059	0.066	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	20525	836.5	25	12	24.4	24.0	0.074	0.081	0.058	0.064	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	20525	836.5	1	25	24.5	24.0	0.096	0.108	0.076	0.085	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	20525	836.5	25	12	24.4	24.0	0.108	0.118	0.084	0.092	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	20525	836.5	1	25	24.5	24.0	0.091	0.102	0.072	0.081	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	20525	836.5	25	12	24.4	24.0	0.091	0.100	0.071	0.078	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	20525	836.5	1	25	25.4	24.9	0.516	0.579	0.275	0.309	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	20525	836.5	25	12	24.4	24.0	0.420	0.461	0.224	0.246	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	20525	836.5	1	25	25.4	24.9	0.249	0.279	0.149	0.167	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	20525	836.5	25	12	24.4	24.0	0.202	0.221	0.121	0.133	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	20525	836.5	1	25	25.4	24.9	0.374	0.420	0.152	0.171	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	20525	836.5	25	12	24.4	24.0	0.300	0.329	0.122	0.134	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	20525	836.5	1	25	25.4	24.9	0.474	0.532	0.310	0.348	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	20525	836.5	25	12	24.4	24.0	0.379	0.416	0.247	0.271	

### UL CA 5B

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	PCC UL				SCC UL				Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
						Channel	Freq. (MHz)	RB Allocation	RB Offset	Channel	Freq. (MHz)	RB Allocation	RB Offset							
ANT 1	Head	QPSK	Mode A	0	Right Cheek	20476	831.6	1	49	20575	841.5	1	0	25.7	24.2	0.102	<b>0.144</b>	0.078	0.110	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	20476	831.6	1	49	20575	841.5	1	0	25.7	24.3	0.354	<b>0.489</b>	0.187	0.258	
ANT 1	Hotspot	QPSK	Mode B	5	Right Edge	20476	831.6	1	49	20575	841.5	1	0	25.7	24.3	0.297	<b>0.410</b>	0.192	0.265	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	PCC UL				SCC UL				Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
Channel	Freq. (MHz)	RB Allocation	RB Offset	Channel	Freq. (MHz)	RB Allocation	RB Offset													
ANT 2	Head	QPSK	Mode A	0	Right Cheek	20476	831.6	1	49	20575	841.5	1	0	23.8	23.2	0.313	<b>0.359</b>	0.212	0.243	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	20476	831.6	1	49	20575	841.5	1	0	24.7	23.2	0.282	<b>0.398</b>	0.183	0.258	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	PCC UL				SCC UL				Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
Channel	Freq. (MHz)	RB Allocation	RB Offset	Channel	Freq. (MHz)	RB Allocation	RB Offset													
ANT 3	Head	QPSK	Mode A	0	Right Cheek	20476	831.6	1	49	20575	841.5	1	0	24.5	23.8	0.009	<b>0.011</b>	0.007	0.008	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	20476	831.6	1	49	20575	841.5	1	0	25.4	24.7	0.113	<b>0.133</b>	0.032	0.038	
ANT 3	Hotspot	QPSK	Mode B	5	Left Edge	20476	831.6	1	49	20575	841.5	1	0	25.4	24.7	0.192	<b>0.226</b>	0.084	0.099	

#### Note(s):

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.

### 10.7. LTE Band 7 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	QPSK	Mode A	0	Left Cheek	21100	2535	1	49	24.0	23.4	0.098	0.113	0.052	0.060	
ANT 1	Head	QPSK	Mode A	0	Left Cheek	21100	2535	50	24	24.0	23.4	0.103	0.118	0.058	0.067	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	21100	2535	1	49	24.0	23.4	0.140	0.161	0.073	0.084	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	21100	2535	50	24	24.0	23.4	0.143	0.164	0.075	0.086	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	21100	2535	1	49	24.0	23.4	0.295	0.339	0.160	0.184	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	21100	2535	50	24	24.0	23.4	0.324	0.372	0.179	0.206	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	21100	2535	1	49	24.0	23.4	0.088	0.101	0.046	0.053	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	21100	2535	50	24	24.0	23.4	0.096	0.110	0.051	0.059	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	21100	2535	1	49	20.3	19.6	0.586	0.688	0.275	0.323	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	21100	2535	50	24	20.3	19.7	0.588	0.675	0.277	0.318	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	21100	2535	1	49	20.3	19.6	0.326	0.383	0.158	0.186	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	21100	2535	50	24	20.3	19.7	0.331	0.380	0.160	0.184	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	21100	2535	1	49	20.3	19.6	0.614	0.721	0.273	0.321	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	21100	2535	50	24	20.3	19.5	0.641	0.771	0.283	0.340	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	21100	2535	1	49	20.3	19.6	0.330	0.388	0.140	0.164	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	21100	2535	50	24	20.3	19.7	0.351	0.403	0.148	0.170	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	21100	2535	1	49	20.3	19.6	0.010	0.012	0.004	0.005	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	21100	2535	50	24	20.3	19.7	0.017	0.020	0.008	0.009	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	QPSK	Mode A	0	Left Cheek	21100	2535	1	49	19.1	18.7	0.626	0.686	0.247	0.271	
ANT 2	Head	QPSK	Mode A	0	Left Cheek	21100	2535	50	24	19.1	18.7	0.633	0.694	0.249	0.273	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	20850	2510	1	49	19.1	18.5	0.730	0.838	0.286	0.328	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	20850	2510	50	24	19.1	18.7	0.755	0.828	0.295	0.323	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	21100	2535	1	49	19.1	18.7	0.744	0.816	0.283	0.310	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	21100	2535	50	24	19.1	18.7	0.749	0.821	0.287	0.315	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	21100	2535	100	0	19.1	18.7	0.748	0.820	0.286	0.314	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	21350	2560	1	49	19.1	18.7	0.699	0.766	0.265	0.291	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	21350	2560	50	24	19.1	18.9	0.717	0.751	0.271	0.284	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	21100	2535	1	49	19.1	18.7	0.452	0.496	0.205	0.225	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	21100	2535	50	24	19.1	18.7	0.453	0.497	0.205	0.225	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	21100	2535	1	49	19.1	18.7	0.514	0.564	0.212	0.232	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	21100	2535	50	24	19.1	18.7	0.531	0.582	0.218	0.239	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	20850	2510	1	49	17.5	16.8	0.760	0.893	0.313	0.368	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	20850	2510	50	24	17.5	16.9	0.763	0.876	0.315	0.362	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	21100	2535	1	49	17.5	16.8	0.793	0.932	0.328	0.385	19
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	21100	2535	50	24	17.5	16.9	0.796	0.914	0.329	0.378	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	21100	2535	100	0	17.5	16.9	0.804	0.923	0.325	0.373	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	21350	2560	1	49	17.5	16.9	0.777	0.892	0.312	0.358	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	21350	2560	50	24	17.5	17.0	0.823	0.923	0.332	0.373	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	21100	2535	1	49	17.5	16.8	0.234	0.275	0.096	0.113	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	21100	2535	50	24	17.5	16.9	0.240	0.276	0.098	0.113	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	21100	2535	1	49	17.5	16.8	0.498	0.585	0.180	0.211	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	21100	2535	50	24	17.5	16.9	0.499	0.573	0.180	0.207	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	21100	2535	1	49	17.5	16.8	0.069	0.081	0.031	0.036	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	21100	2535	50	24	17.5	16.9	0.074	0.085	0.034	0.039	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	21100	2535	1	49	17.5	16.8	0.032	0.038	0.013	0.015	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	21100	2535	50	24	17.5	16.9	0.032	0.037	0.013	0.015	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	QPSK	Mode A	0	Left Cheek	21100	2535	1	49	22.5	22.4	0.323	0.331	0.178	0.182	
ANT 3	Head	QPSK	Mode A	0	Left Cheek	21100	2535	50	24	22.5	22.4	0.333	0.341	0.182	0.186	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	21100	2535	1	49	22.5	22.4	0.113	0.116	0.059	0.060	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	21100	2535	50	24	22.5	22.4	0.115	0.118	0.060	0.061	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	21100	2535	1	49	22.5	22.4	0.137	0.140	0.078	0.080	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	21100	2535	50	24	22.5	22.4	0.141	0.144	0.078	0.080	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	21100	2535	1	49	22.5	22.4	0.148	0.151	0.079	0.081	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	21100	2535	50	24	22.5	22.4	0.154	0.158	0.083	0.085	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	21100	2535	1	49	19.7	19.0	0.585	0.687	0.283	0.332	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	21100	2535	50	24	19.7	19.2	0.601	0.674	0.290	0.325	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	21100	2535	1	49	19.7	19.0	0.638	0.750	0.288	0.338	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	21100	2535	50	24	19.7	19.2	0.639	0.717	0.288	0.323	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	21100	2535	1	49	19.7	19.0	0.221	0.260	0.110	0.129	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	21100	2535	50	24	19.7	19.2	0.228	0.256	0.114	0.128	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	20850	2510	1	49	19.7	19.2	0.817	0.917	0.357	0.401	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	20850	2510	50	24	19.7	19.4	0.804	0.862	0.351	0.376	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	21100	2535	1	49	19.7	19.0	0.779	0.915	0.338	0.397	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	21100	2535	50	24	19.7	19.2	0.806	0.904	0.349	0.392	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	21100	2535	100	0	19.7	19.2	0.729	0.818	0.307	0.344	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	21350	2560	1	49	19.7	19.0	0.740	0.869	0.318	0.374	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	21350	2560	50	24	19.7	19.1	0.758	0.870	0.326	0.374	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 4	Head	QPSK	Mode A	0	Left Cheek	20850	2510	1	49	18.9	17.8	0.615	0.792	0.264	0.340	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	20850	2510	50	24	18.9	17.9	0.635	0.799	0.271	0.341	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	21100	2535	1	49	18.9	17.4	0.627	0.886	0.255	0.360	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	21100	2535	50	24	18.9	17.5	0.626	0.864	0.253	0.349	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	21100	2535	100	0	18.9	17.7	0.638	0.841	0.255	0.336	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	21350	2560	1	49	18.9	17.6	0.689	<b>0.929</b>	0.275	0.371	20
ANT 4	Head	QPSK	Mode A	0	Left Cheek	21350	2560	50	24	18.9	17.7	0.701	0.924	0.279	0.368	
ANT 4	Head	QPSK	Mode A	0	Left Tilt	21100	2535	1	49	18.9	17.4	0.145	0.205	0.070	0.099	
ANT 4	Head	QPSK	Mode A	0	Left Tilt	21100	2535	50	24	18.9	17.5	0.143	0.197	0.070	0.097	
ANT 4	Head	QPSK	Mode A	0	Right Cheek	21100	2535	1	49	18.9	17.4	0.152	0.215	0.082	0.116	
ANT 4	Head	QPSK	Mode A	0	Right Cheek	21100	2535	50	24	18.9	17.5	0.162	0.224	0.086	0.119	
ANT 4	Head	QPSK	Mode A	0	Right Tilt	21100	2535	1	49	18.9	17.4	0.064	0.090	0.032	0.045	
ANT 4	Head	QPSK	Mode A	0	Right Tilt	21100	2535	50	24	18.9	17.5	0.066	0.091	0.033	0.046	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Back	21100	2535	1	49	19.0	17.7	0.311	0.420	0.142	0.192	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Back	21100	2535	50	24	19.0	17.8	0.315	0.415	0.143	0.189	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Front	21100	2535	1	49	19.0	17.7	0.295	0.398	0.133	0.179	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Front	21100	2535	50	24	19.0	17.8	0.303	0.399	0.137	0.181	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Top	21100	2535	1	49	19.0	17.7	0.076	0.103	0.034	0.046	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Top	21100	2535	50	24	19.0	17.8	0.079	0.104	0.036	0.047	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	20850	2510	1	49	19.0	18.0	0.700	0.881	0.296	0.373	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	20850	2510	50	24	19.0	18.0	0.706	0.889	0.299	0.376	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	21100	2535	1	49	19.0	17.7	0.687	0.927	0.285	0.384	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	21100	2535	50	24	19.0	17.8	0.673	0.887	0.281	0.370	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	21100	2535	100	0	19.0	18.0	0.684	0.861	0.288	0.363	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	21350	2560	1	49	19.0	17.7	0.689	<b>0.929</b>	0.289	0.390	21
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	21350	2560	50	24	19.0	17.8	0.632	0.833	0.269	0.355	

**UL CA 7C**

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	PCC UL				SCC UL				Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
						Channel	Freq. (MHz)	RB Allocation	RB Offset	Channel	Freq. (MHz)	RB Allocation	RB Offset							
ANT 1	Head	QPSK	Mode A	0	Right Cheek	21001	2525.1	1	99	21199	2544.9	1	0	24.0	23.4	0.208	<b>0.239</b>	0.114	0.131	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	21001	2525.1	1	99	21199	2544.9	1	0	20.3	19.7	0.388	<b>0.445</b>	0.173	0.199	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	21152	2540.2	1	99	21350	2560	1	0	20.3	19.5	0.402	<b>0.483</b>	0.172	0.207	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	20850	2510	1	99	21048	2529.8	1	0	19.1	17.5	0.524	<b>0.757</b>	0.206	0.298	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	21001	2525.1	1	99	21199	2544.9	1	0	17.5	15.6	0.465	<b>0.720</b>	0.189	0.293	
ANT 3	Head	QPSK	Mode A	0	Left Cheek	21001.00	2525.1	1	99	21199	2544.9	1	0	22.5	22.4	0.180	<b>0.186</b>	0.095	0.098	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	21001.00	2525.1	1	99	21199	2544.9	1	0	19.7	18.8	0.323	<b>0.397</b>	0.150	0.185	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	20850.00	2510	1	99	21048	2529.8	1	0	19.7	18.8	0.399	<b>0.491</b>	0.170	0.209	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	21001.00	2525.1	1	99	21199	2544.9	1	0	18.9	17.4	0.411	<b>0.581</b>	0.167	0.236	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Back	21001.00	2525.1	1	99	21199	2544.9	1	0	19.0	17.3	0.221	<b>0.327</b>	0.096	0.142	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	21001.00	2525.1	1	99	21199	2544.9	1	0	19.0	17.3	0.056	<b>0.083</b>	0.022	0.033	

**Note(s):**

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.

### 10.8. LTE Band 12 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	QPSK	Mode A	0	Left Cheek	23095	707.5	1	25	25.7	25.3	0.156	0.171	0.123	0.135	
ANT 1	Head	QPSK	Mode A	0	Left Cheek	23095	707.5	25	12	24.7	24.3	0.125	0.137	0.099	0.109	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	23095	707.5	1	25	25.7	25.3	0.113	0.124	0.091	0.100	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	23095	707.5	25	12	24.7	24.3	0.091	0.100	0.074	0.081	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	23095	707.5	1	25	25.7	25.3	0.200	0.219	0.157	0.172	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	23095	707.5	25	12	24.7	24.3	0.158	0.173	0.124	0.136	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	23095	707.5	1	25	25.7	25.3	0.071	0.078	0.043	0.047	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	23095	707.5	25	12	24.7	24.3	0.057	0.062	0.035	0.038	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	23095	707.5	1	25	25.7	24.7	0.417	0.525	0.237	0.298	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	23095	707.5	25	12	24.7	24.3	0.386	0.423	0.218	0.239	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	23095	707.5	1	25	25.7	24.7	0.318	0.400	0.190	0.239	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	23095	707.5	25	12	24.7	24.3	0.297	0.326	0.177	0.194	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	23095	707.5	1	25	25.7	24.7	0.687	<b>0.865</b>	0.456	0.574	22
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	23095	707.5	25	12	24.7	24.3	0.639	0.701	0.426	0.467	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	23095	707.5	1	25	25.7	24.7	0.245	0.308	0.110	0.138	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	23095	707.5	25	12	24.7	24.3	0.235	0.258	0.106	0.116	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	23095	707.5	1	25	25.7	24.7	0.294	0.370	0.196	0.247	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	23095	707.5	25	12	24.7	24.3	0.285	0.312	0.190	0.208	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	QPSK	Mode A	0	Left Cheek	23095	707.5	1	25	24.7	23.9	0.658	0.791	0.429	0.516	
ANT 2	Head	QPSK	Mode A	0	Left Cheek	23095	707.5	25	12	23.7	23.3	0.571	0.626	0.372	0.408	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	23095	707.5	1	25	24.7	23.9	0.562	0.676	0.312	0.375	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	23095	707.5	25	12	23.7	23.3	0.496	0.544	0.276	0.303	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	23095	707.5	1	25	24.7	23.9	0.753	0.905	0.487	0.586	23
ANT 2	Head	QPSK	Mode A	0	Right Cheek	23095	707.5	25	12	23.7	23.3	0.652	0.715	0.423	0.464	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	23095	707.5	1	25	24.7	23.9	0.593	0.713	0.337	0.405	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	23095	707.5	25	12	23.7	23.3	0.495	0.543	0.288	0.316	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	23095	707.5	1	25	24.7	24.3	0.438	0.480	0.275	0.302	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	23095	707.5	25	12	23.7	23.3	0.350	0.384	0.219	0.240	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	23095	707.5	1	25	24.7	24.3	0.328	0.360	0.232	0.254	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	23095	707.5	25	12	23.7	23.3	0.251	0.275	0.170	0.186	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	23095	707.5	1	25	24.7	24.3	0.201	0.220	0.097	0.106	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	23095	707.5	25	12	23.7	23.3	0.160	0.175	0.077	0.084	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	23095	707.5	1	25	24.7	24.3	0.221	0.242	0.147	0.161	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	23095	707.5	25	12	23.7	23.3	0.173	0.190	0.115	0.126	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	23095	707.5	1	25	24.7	24.3	0.397	0.435	0.261	0.286	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	23095	707.5	25	12	23.7	23.3	0.314	0.344	0.207	0.227	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	QPSK	Mode A	0	Left Cheek	23095	707.5	1	25	25.4	24.3	0.089	0.115	0.069	0.089	
ANT 3	Head	QPSK	Mode A	0	Left Cheek	23095	707.5	25	12	24.4	24.0	0.084	0.092	0.065	0.071	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	23095	707.5	1	25	25.4	24.3	0.052	0.067	0.042	0.054	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	23095	707.5	25	12	24.4	24.0	0.049	0.054	0.040	0.044	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	23095	707.5	1	25	25.4	24.3	0.068	0.088	0.053	0.068	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	23095	707.5	25	12	24.4	24.0	0.065	0.071	0.051	0.056	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	23095	707.5	1	25	25.4	24.3	0.044	0.057	0.036	0.046	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	23095	707.5	25	12	24.4	24.0	0.042	0.046	0.035	0.038	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	23095	707.5	1	25	25.4	25.0	0.564	<b>0.618</b>	0.274	0.300	24
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	23095	707.5	25	12	24.4	24.0	0.453	0.497	0.219	0.240	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	23095	707.5	1	25	25.4	25.0	0.293	0.321	0.164	0.180	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	23095	707.5	25	12	24.4	24.0	0.240	0.263	0.135	0.148	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	23095	707.5	1	25	25.4	25.0	0.247	0.271	0.100	0.110	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	23095	707.5	25	12	24.4	24.0	0.200	0.219	0.081	0.089	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	23095	707.5	1	25	25.4	25.0	0.497	0.545	0.253	0.277	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	23095	707.5	25	12	24.4	24.0	0.405	0.444	0.207	0.227	

### 10.9. LTE Band 13 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	QPSK	Mode A	0	Left Cheek	23230	782	1	25	25.7	25.2	0.174	0.195	0.139	0.156	
ANT 1	Head	QPSK	Mode A	0	Left Cheek	23230	782	25	12	24.7	24.4	0.142	0.152	0.114	0.122	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	23230	782	1	25	25.7	25.2	0.095	0.107	0.077	0.086	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	23230	782	25	12	24.7	24.4	0.077	0.083	0.063	0.068	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	23230	782	1	25	25.7	25.2	0.227	0.255	0.178	0.200	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	23230	782	25	12	24.7	24.4	0.191	0.205	0.149	0.160	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	23230	782	1	25	25.7	25.2	0.078	0.088	0.064	0.072	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	23230	782	25	12	24.7	24.4	0.066	0.071	0.054	0.058	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	23230	782	1	25	25.7	24.8	0.548	<b>0.674</b>	0.313	0.385	25
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	23230	782	25	12	24.7	24.5	0.461	0.483	0.264	0.276	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	23230	782	1	25	25.7	24.8	0.324	0.399	0.188	0.231	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	23230	782	25	12	24.7	24.5	0.303	0.317	0.176	0.184	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	23230	782	1	25	25.7	24.8	0.675	<b>0.830</b>	0.442	0.544	26
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	23230	782	25	12	24.7	24.5	0.572	0.599	0.374	0.392	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	23230	782	1	25	25.7	24.8	0.304	0.374	0.134	0.165	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	23230	782	25	12	24.7	24.5	0.273	0.286	0.120	0.126	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	23230	782	1	25	25.7	24.8	0.327	0.402	0.214	0.263	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	23230	782	25	12	24.7	24.5	0.294	0.308	0.193	0.202	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	QPSK	Mode A	0	Left Cheek	23230	782	1	25	24.7	23.9	0.521	0.626	0.373	0.448	
ANT 2	Head	QPSK	Mode A	0	Left Cheek	23230	782	25	12	23.7	23.2	0.459	0.515	0.330	0.370	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	23230	782	1	25	24.7	23.9	0.380	0.457	0.237	0.285	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	23230	782	25	12	23.7	23.2	0.336	0.377	0.209	0.235	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	23230	782	1	25	24.7	23.9	0.687	<b>0.826</b>	0.445	0.535	27
ANT 2	Head	QPSK	Mode A	0	Right Cheek	23230	782	25	12	23.7	23.2	0.605	0.679	0.390	0.438	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	23230	782	1	25	24.7	23.9	0.542	0.652	0.293	0.352	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	23230	782	25	12	23.7	23.2	0.479	0.537	0.257	0.288	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	23230	782	1	25	24.7	24.3	0.412	0.452	0.285	0.312	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	23230	782	25	12	23.7	23.2	0.329	0.369	0.228	0.256	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	23230	782	1	25	24.7	24.3	0.279	0.306	0.197	0.216	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	23230	782	25	12	23.7	23.2	0.223	0.250	0.158	0.177	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	23230	782	1	25	24.7	24.3	0.161	0.177	0.085	0.093	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	23230	782	25	12	23.7	23.2	0.130	0.146	0.069	0.077	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	23230	782	1	25	24.7	24.3	0.220	0.241	0.144	0.158	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	23230	782	25	12	23.7	23.2	0.176	0.197	0.116	0.130	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	23230	782	1	25	24.7	24.3	0.297	0.326	0.194	0.213	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	23230	782	25	12	23.7	23.2	0.238	0.267	0.156	0.175	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	QPSK	Mode A	0	Left Cheek	23230	782	1	25	25.4	25.0	0.097	0.106	0.075	0.082	
ANT 3	Head	QPSK	Mode A	0	Left Cheek	23230	782	25	12	24.4	24.0	0.077	0.084	0.060	0.066	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	23230	782	1	25	25.4	25.0	0.045	0.049	0.036	0.039	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	23230	782	25	12	24.4	24.0	0.036	0.039	0.029	0.032	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	23230	782	1	25	25.4	25.0	0.089	0.098	0.070	0.077	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	23230	782	25	12	24.4	24.0	0.071	0.078	0.056	0.061	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	23230	782	1	25	25.4	25.0	0.040	0.044	0.033	0.036	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	23230	782	25	12	24.4	24.0	0.033	0.036	0.026	0.029	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	23230	782	1	25	25.4	25.0	0.440	0.482	0.229	0.251	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	23230	782	25	12	24.4	24.0	0.356	0.390	0.185	0.203	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	23230	782	1	25	25.4	25.0	0.228	0.250	0.131	0.144	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	23230	782	25	12	24.4	24.0	0.204	0.224	0.116	0.127	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	23230	782	1	25	25.4	25.0	0.217	0.238	0.092	0.101	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	23230	782	25	12	24.4	24.0	0.191	0.209	0.081	0.089	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	23230	782	1	25	25.4	25.0	0.458	0.502	0.229	0.251	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	23230	782	25	12	24.4	24.0	0.372	0.408	0.184	0.202	



### 10.10. LTE Band 14 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	QPSK	Mode A	0	Left Cheek	23330	793	1	25	25.7	25.3	0.191	0.209	0.152	0.167	
ANT 1	Head	QPSK	Mode A	0	Left Cheek	23330	793	25	12	24.7	24.5	0.162	0.170	0.129	0.135	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	23330	793	1	25	25.7	25.3	0.153	0.168	0.123	0.135	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	23330	793	25	12	24.7	24.5	0.128	0.134	0.104	0.109	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	23330	793	1	25	25.7	25.3	0.246	0.270	0.192	0.211	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	23330	793	25	12	24.7	24.5	0.208	0.218	0.162	0.170	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	23330	793	1	25	25.7	25.3	0.122	0.134	0.099	0.109	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	23330	793	25	12	24.7	24.5	0.102	0.107	0.083	0.087	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	23330	793	1	25	25.7	24.7	0.555	<b>0.699</b>	0.311	0.392	28
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	23330	793	25	12	24.7	24.3	0.511	0.560	0.286	0.314	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	23330	793	1	25	25.7	24.7	0.351	0.442	0.208	0.262	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	23330	793	25	12	24.7	24.3	0.323	0.354	0.191	0.209	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	23330	793	1	25	25.7	24.7	0.672	<b>0.846</b>	0.439	0.553	29
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	23330	793	25	12	24.7	24.3	0.634	0.695	0.414	0.454	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	23330	793	1	25	25.7	24.7	0.313	0.394	0.138	0.174	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	23330	793	25	12	24.7	24.3	0.290	0.318	0.127	0.139	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	23330	793	1	25	25.7	24.7	0.254	0.320	0.165	0.208	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	23330	793	25	12	24.7	24.3	0.241	0.264	0.157	0.172	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	QPSK	Mode A	0	Left Cheek	23330	793	1	25	24.7	24.0	0.601	0.706	0.425	0.499	
ANT 2	Head	QPSK	Mode A	0	Left Cheek	23330	793	25	12	23.7	23.4	0.524	0.561	0.370	0.396	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	23330	793	1	25	24.7	24.0	0.440	0.517	0.263	0.309	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	23330	793	25	12	23.7	23.4	0.383	0.410	0.229	0.245	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	23330	793	1	25	24.7	24.0	0.673	<b>0.791</b>	0.462	0.543	30
ANT 2	Head	QPSK	Mode A	0	Right Cheek	23330	793	25	12	23.7	23.4	0.582	0.624	0.398	0.426	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	23330	793	1	25	24.7	24.0	0.454	0.533	0.269	0.316	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	23330	793	25	12	23.7	23.4	0.395	0.423	0.234	0.251	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	23330	793	1	25	24.7	24.5	0.417	0.437	0.282	0.295	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	23330	793	25	12	23.7	23.4	0.332	0.356	0.225	0.241	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	23330	793	1	25	24.7	24.5	0.293	0.307	0.206	0.216	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	23330	793	25	12	23.7	23.4	0.232	0.249	0.163	0.175	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	23330	793	1	25	24.7	24.5	0.195	0.204	0.101	0.106	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	23330	793	25	12	23.7	23.4	0.156	0.167	0.081	0.087	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	23330	793	1	25	24.7	24.5	0.222	0.232	0.146	0.153	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	23330	793	25	12	23.7	23.4	0.175	0.188	0.114	0.122	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	23330	793	1	25	24.7	24.5	0.293	0.307	0.192	0.201	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	23330	793	25	12	23.7	23.4	0.232	0.249	0.152	0.163	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	QPSK	Mode A	0	Left Cheek	23330	793	1	25	25.4	24.8	0.119	0.137	0.093	0.107	
ANT 3	Head	QPSK	Mode A	0	Left Cheek	23330	793	25	12	24.4	23.8	0.097	0.111	0.076	0.087	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	23330	793	1	25	25.4	24.8	0.071	0.082	0.058	0.067	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	23330	793	25	12	24.4	23.8	0.058	0.067	0.047	0.054	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	23330	793	1	25	25.4	24.8	0.076	0.087	0.061	0.070	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	23330	793	25	12	24.4	23.8	0.063	0.072	0.050	0.057	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	23330	793	1	25	25.4	24.8	0.044	0.051	0.037	0.042	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	23330	793	25	12	24.4	23.8	0.036	0.041	0.030	0.034	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	23330	793	1	25	25.4	24.8	0.397	0.456	0.207	0.238	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	23330	793	25	12	24.4	23.8	0.323	0.371	0.168	0.193	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	23330	793	1	25	25.4	24.8	0.189	0.217	0.113	0.130	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	23330	793	25	12	24.4	23.8	0.157	0.180	0.094	0.108	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	23330	793	1	25	25.4	24.8	0.206	0.237	0.087	0.100	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	23330	793	25	12	24.4	23.8	0.168	0.193	0.071	0.082	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	23330	793	1	25	25.4	24.8	0.311	0.357	0.140	0.161	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	23330	793	25	12	24.4	23.8	0.256	0.294	0.114	0.131	



### 10.11. LTE Band 25 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	QPSK	Mode A	0	Left Cheek	26365	1882.5	1	49	24.5	24.1	0.087	0.095	0.056	0.061	
ANT 1	Head	QPSK	Mode A	0	Left Cheek	26365	1882.5	50	24	24.5	24.1	0.089	0.098	0.057	0.062	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	26365	1882.5	1	49	24.5	24.1	0.066	0.072	0.041	0.045	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	26365	1882.5	50	24	24.5	24.1	0.067	0.073	0.042	0.046	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	26365	1882.5	1	49	24.5	24.1	0.188	0.206	0.118	0.129	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	26365	1882.5	50	24	24.5	24.1	0.193	0.212	0.121	0.133	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	26365	1882.5	1	49	24.5	24.1	0.085	0.093	0.054	0.059	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	26365	1882.5	50	24	24.5	24.1	0.088	0.096	0.055	0.060	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	26365	1882.5	1	49	19.4	18.0	0.370	0.511	0.193	0.266	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	26365	1882.5	50	24	19.4	18.1	0.378	0.510	0.197	0.266	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	26365	1882.5	1	49	19.4	18.0	0.188	0.260	0.102	0.141	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	26365	1882.5	50	24	19.4	18.1	0.207	0.279	0.112	0.151	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	26365	1882.5	1	49	19.4	18.0	0.198	0.273	0.093	0.128	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	26365	1882.5	50	24	19.4	18.1	0.201	0.271	0.095	0.128	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	26140	1860	1	49	19.4	18.3	0.722	0.930	0.338	0.435	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	26140	1860	50	24	19.4	18.3	0.729	0.939	0.342	0.441	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	26365	1882.5	1	49	19.4	18.0	0.638	0.881	0.297	0.410	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	26365	1882.5	50	24	19.4	18.1	0.656	0.885	0.305	0.411	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	26365	1882.5	100	0	19.4	18.2	0.637	0.840	0.296	0.390	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	26590	1905	1	49	19.4	18.1	0.502	0.677	0.234	0.316	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	26590	1905	50	24	19.4	18.1	0.507	0.684	0.238	0.321	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	26365	1882.5	1	49	19.4	18.0	0.014	0.019	0.007	0.010	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	26365	1882.5	50	24	19.4	18.1	0.017	0.023	0.009	0.012	
ANT 2	Head	QPSK	Mode A	0	Left Cheek	26365	1882.5	1	49	20.3	19.7	0.238	0.273	0.125	0.144	
ANT 2	Head	QPSK	Mode A	0	Left Cheek	26365	1882.5	50	24	20.3	19.8	0.240	0.269	0.126	0.141	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	26365	1882.5	1	49	20.3	19.7	0.273	0.313	0.135	0.155	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	26365	1882.5	50	24	20.3	19.8	0.273	0.306	0.135	0.151	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	26365	1882.5	1	49	20.3	19.7	0.673	0.773	0.355	0.408	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	26365	1882.5	50	24	20.3	19.8	0.691	0.775	0.364	0.408	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	26365	1882.5	1	49	20.3	19.7	0.557	0.640	0.270	0.310	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	26365	1882.5	50	24	20.3	19.8	0.571	0.641	0.277	0.311	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	26365	1882.5	1	49	20.1	19.7	0.523	0.573	0.247	0.271	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	26365	1882.5	50	24	20.1	19.8	0.502	0.538	0.237	0.254	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	26365	1882.5	1	49	20.1	19.7	0.345	0.378	0.173	0.190	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	26365	1882.5	50	24	20.1	19.8	0.350	0.375	0.176	0.189	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	26140	1860	1	49	20.1	19.6	0.786	0.882	0.359	0.403	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	26140	1860	50	24	20.1	19.8	0.805	0.863	0.367	0.393	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	26365	1882.5	1	49	20.1	19.7	0.744	0.816	0.341	0.374	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	26365	1882.5	50	24	20.1	19.8	0.765	0.820	0.351	0.376	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	26365	1882.5	100	0	20.1	19.8	0.763	0.818	0.350	0.375	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	26590	1905	1	49	20.1	19.7	0.702	0.770	0.322	0.353	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	26590	1905	50	24	20.1	19.8	0.725	0.777	0.332	0.356	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	26365	1882.5	1	49	20.1	19.7	0.005	0.005	0.002	0.002	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	26365	1882.5	50	24	20.1	19.8	0.005	0.005	0.002	0.002	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	26365	1882.5	1	49	20.1	19.7	0.295	0.323	0.150	0.164	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	26365	1882.5	50	24	20.1	19.8	0.303	0.325	0.156	0.167	
ANT 3	Head	QPSK	Mode A	0	Left Cheek	26365	1882.5	1	49	21.7	21.1	0.175	0.201	0.109	0.125	
ANT 3	Head	QPSK	Mode A	0	Left Cheek	26365	1882.5	50	24	21.7	21.2	0.172	0.193	0.108	0.121	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	26365	1882.5	1	49	21.7	21.1	0.090	0.103	0.057	0.065	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	26365	1882.5	50	24	21.7	21.2	0.092	0.103	0.058	0.065	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	26365	1882.5	1	49	21.7	21.1	0.057	0.065	0.036	0.041	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	26365	1882.5	50	24	21.7	21.2	0.058	0.065	0.037	0.042	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	26365	1882.5	1	49	21.7	21.1	0.028	0.032	0.016	0.018	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	26365	1882.5	50	24	21.7	21.2	0.029	0.033	0.017	0.019	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	26365	1882.5	1	49	21.8	20.6	0.597	0.787	0.327	0.431	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	26365	1882.5	50	24	21.8	20.6	0.612	<b>0.807</b>	0.336	0.443	31
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	26365	1882.5	1	49	21.8	20.6	0.482	0.635	0.253	0.334	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	26365	1882.5	50	24	21.8	20.6	0.495	0.653	0.259	0.341	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	26365	1882.5	1	49	21.8	20.6	0.018	0.024	0.011	0.015	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	26365	1882.5	50	24	21.8	20.6	0.018	0.024	0.011	0.015	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	26140	1860	1	49	21.8	20.3	0.609	0.860	0.312	0.441	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	26140	1860	50	24	21.8	20.5	0.627	0.846	0.322	0.434	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	26365	1882.5	1	49	21.8	20.6	0.595	0.784	0.303	0.399	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	26365	1882.5	50	24	21.8	20.6	0.613	0.808	0.313	0.413	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	26365	1882.5	100	0	21.8	20.6	0.618	0.815	0.309	0.407	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	26590	1905	1	49	21.8	20.7	0.700	0.902	0.349	0.450	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	26590	1905	50	24	21.8	20.7	0.701	0.903	0.349	0.450	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (m)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 4	Head	QPSK	Mode A	0	Left Cheek	26140	1860	1	49	18.3	17.3	0.534	0.672	0.237	0.298	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	26140	1860	50	24	18.3	17.4	0.550	0.677	0.244	0.300	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	26365	1882.5	1	49	18.3	17.3	0.685	0.862	0.303	0.381	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	26365	1882.5	50	24	18.3	17.4	0.692	0.851	0.307	0.378	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	26365	1882.5	100	0	18.3	17.4	0.708	0.871	0.315	0.388	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	26590	1905	1	49	18.3	17.4	0.759	<b>0.934</b>	0.334	0.411	32
ANT 4	Head	QPSK	Mode A	0	Left Cheek	26590	1905	50	24	18.3	17.6	0.773	0.908	0.340	0.399	
ANT 4	Head	QPSK	Mode A	0	Left Tilt	26365	1882.5	1	49	18.3	17.3	0.200	0.252	0.104	0.131	
ANT 4	Head	QPSK	Mode A	0	Left Tilt	26365	1882.5	50	24	18.3	17.4	0.205	0.252	0.107	0.132	
ANT 4	Head	QPSK	Mode A	0	Right Cheek	26365	1882.5	1	49	18.3	17.3	0.154	0.194	0.083	0.104	
ANT 4	Head	QPSK	Mode A	0	Right Cheek	26365	1882.5	50	24	18.3	17.4	0.157	0.193	0.086	0.106	
ANT 4	Head	QPSK	Mode A	0	Right Tilt	26365	1882.5	1	49	18.3	17.3	0.082	0.103	0.045	0.057	
ANT 4	Head	QPSK	Mode A	0	Right Tilt	26365	1882.5	50	24	18.3	17.4	0.082	0.101	0.046	0.057	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Back	26365	1882.5	1	49	20.0	18.9	0.490	0.631	0.232	0.299	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Back	26365	1882.5	50	24	20.0	19.0	0.498	0.627	0.235	0.296	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Front	26365	1882.5	1	49	20.0	18.9	0.295	0.380	0.142	0.183	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Front	26365	1882.5	50	24	20.0	19.0	0.297	0.374	0.143	0.180	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Top	26365	1882.5	1	49	20.0	18.9	0.123	0.158	0.063	0.081	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Top	26365	1882.5	50	24	20.0	19.0	0.124	0.156	0.063	0.079	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	26140	1860	1	49	20.0	19.0	0.613	0.772	0.283	0.356	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	26140	1860	50	24	20.0	19.1	0.638	0.785	0.293	0.360	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	26365	1882.5	1	49	20.0	18.9	0.663	0.854	0.305	0.393	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	26365	1882.5	50	24	20.0	19.0	0.681	0.857	0.312	0.393	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	26365	1882.5	100	0	20.0	19.1	0.674	0.829	0.308	0.379	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	26590	1905	1	49	20.0	18.8	0.720	<b>0.949</b>	0.326	0.430	33
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	26590	1905	50	24	20.0	19.0	0.723	0.910	0.328	0.413	

### 10.12. LTE Band 26 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	QPSK	Mode A	0	Left Cheek	26865	831.5	1	25	25.7	25.1	0.204	0.234	0.160	0.184	
ANT 1	Head	QPSK	Mode A	0	Left Cheek	26865	831.5	25	12	24.7	24.3	0.152	0.167	0.120	0.132	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	26865	831.5	1	25	25.7	25.1	0.107	0.123	0.086	0.099	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	26865	831.5	25	12	24.7	24.3	0.097	0.106	0.076	0.083	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	26865	831.5	1	25	25.7	25.1	0.242	0.278	0.190	0.218	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	26865	831.5	25	12	24.7	24.3	0.203	0.223	0.161	0.177	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	26865	831.5	1	25	25.7	25.1	0.191	0.219	0.155	0.178	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	26865	831.5	25	12	24.7	24.3	0.131	0.144	0.107	0.117	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	26865	831.5	1	25	25.7	25.3	0.542	<b>0.594</b>	0.298	0.327	34
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	26865	831.5	25	12	24.7	24.4	0.446	0.478	0.244	0.261	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	26865	831.5	1	25	25.7	25.3	0.375	0.411	0.217	0.238	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	26865	831.5	25	12	24.7	24.4	0.309	0.331	0.179	0.192	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	26865	831.5	1	25	25.7	25.3	0.682	<b>0.748</b>	0.441	0.484	35
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	26865	831.5	25	12	24.7	24.4	0.556	0.596	0.360	0.386	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	26865	831.5	1	25	25.7	25.3	0.428	0.469	0.190	0.208	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	26865	831.5	25	12	24.7	24.4	0.351	0.376	0.155	0.166	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	26865	831.5	1	25	25.7	25.3	0.250	0.274	0.162	0.178	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	26865	831.5	25	12	24.7	24.4	0.206	0.221	0.134	0.144	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	QPSK	Mode A	0	Left Cheek	26865	831.5	1	25	23.8	23.2	0.553	0.635	0.394	0.452	
ANT 2	Head	QPSK	Mode A	0	Left Cheek	26865	831.5	25	12	23.7	23.0	0.558	0.656	0.398	0.468	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	26865	831.5	1	25	23.8	23.2	0.323	0.371	0.205	0.235	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	26865	831.5	25	12	23.7	23.0	0.326	0.383	0.204	0.240	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	26740	819	1	25	23.8	23.0	0.638	0.767	0.447	0.537	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	26740	819	25	12	23.7	23.1	0.649	0.745	0.454	0.521	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	26865	831.5	1	25	23.8	23.2	0.696	0.799	0.489	0.561	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	26865	831.5	25	12	23.7	23.0	0.699	<b>0.821</b>	0.492	0.578	36
ANT 2	Head	QPSK	Mode A	0	Right Cheek	26865	831.5	50	0	23.7	23.0	0.694	0.815	0.488	0.573	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	26990	844	1	25	23.8	23.1	0.694	0.815	0.490	0.576	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	26990	844	25	12	23.7	23.0	0.686	0.806	0.485	0.570	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	26865	831.5	1	25	23.8	23.2	0.394	0.452	0.238	0.273	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	26865	831.5	25	12	23.7	23.0	0.397	0.466	0.240	0.282	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	26865	831.5	1	25	24.7	24.4	0.422	0.452	0.277	0.297	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	26865	831.5	25	12	23.7	23.2	0.329	0.369	0.218	0.245	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	26865	831.5	1	25	24.7	24.4	0.306	0.328	0.211	0.226	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	26865	831.5	25	12	23.7	23.2	0.235	0.264	0.162	0.182	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	26865	831.5	1	25	24.7	24.4	0.140	0.150	0.070	0.075	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	26865	831.5	25	12	23.7	23.2	0.115	0.129	0.058	0.065	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	26865	831.5	1	25	24.7	24.4	0.210	0.225	0.138	0.148	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	26865	831.5	25	12	23.7	23.2	0.163	0.183	0.107	0.120	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	26865	831.5	1	25	24.7	24.4	0.349	0.374	0.227	0.243	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	26865	831.5	25	12	23.7	23.2	0.279	0.313	0.182	0.204	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	QPSK	Mode A	0	Left Cheek	26865	831.5	1	25	24.5	24.3	0.109	0.114	0.085	0.089	
ANT 3	Head	QPSK	Mode A	0	Left Cheek	26865	831.5	25	12	24.5	24.2	0.107	0.115	0.083	0.089	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	26865	831.5	1	25	24.5	24.3	0.076	0.080	0.060	0.063	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	26865	831.5	25	12	24.5	24.2	0.075	0.080	0.059	0.063	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	26865	831.5	1	25	24.5	24.3	0.095	0.099	0.075	0.079	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	26865	831.5	25	12	24.5	24.2	0.093	0.100	0.074	0.079	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	26865	831.5	1	25	24.5	24.3	0.088	0.092	0.072	0.075	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	26865	831.5	25	12	24.5	24.2	0.087	0.093	0.071	0.076	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	26865	831.5	1	25	25.4	25.2	0.563	0.590	0.303	0.317	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	26865	831.5	25	12	24.5	24.2	0.450	0.482	0.241	0.258	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	26865	831.5	1	25	25.4	25.2	0.291	0.305	0.174	0.182	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	26865	831.5	25	12	24.5	24.2	0.232	0.249	0.138	0.148	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	26865	831.5	1	25	25.4	25.2	0.268	0.281	0.116	0.121	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	26865	831.5	25	12	24.5	24.2	0.214	0.229	0.093	0.100	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	26865	831.5	1	25	25.4	25.2	0.446	0.467	0.292	0.306	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	26865	831.5	25	12	24.5	24.2	0.359	0.385	0.235	0.252	

### 10.13. LTE Band 30 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	QPSK	Mode A	0	Left Cheek	27710	2310	1	25	22.9	21.9	0.109	0.137	0.064	0.081	
ANT 1	Head	QPSK	Mode A	0	Left Cheek	27710	2310	25	12	22.9	21.9	0.111	0.140	0.065	0.082	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	27710	2310	1	25	22.9	21.9	0.087	0.110	0.064	0.081	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	27710	2310	25	12	22.9	21.9	0.085	0.107	0.047	0.059	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	27710	2310	1	25	22.9	21.9	0.216	0.272	0.121	0.152	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	27710	2310	25	12	22.9	21.9	0.181	0.228	0.101	0.127	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	27710	2310	1	25	22.9	21.9	0.081	0.102	0.044	0.055	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	27710	2310	25	12	22.9	21.9	0.082	0.103	0.044	0.055	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	27710	2310	1	25	22.1	20.9	0.711	0.937	0.336	0.443	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	27710	2310	25	12	22.1	20.9	0.721	0.950	0.340	0.448	37
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	27710	2310	50	0	22.1	20.9	0.713	0.940	0.342	0.451	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	27710	2310	1	25	22.1	20.9	0.378	0.498	0.175	0.231	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	27710	2310	25	12	22.1	20.9	0.387	0.510	0.180	0.237	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	27710	2310	1	25	22.1	20.9	0.637	0.840	0.271	0.357	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	27710	2310	25	12	22.1	20.9	0.639	0.842	0.272	0.359	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	27710	2310	50	0	22.1	20.9	0.621	0.819	0.269	0.355	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	27710	2310	1	25	22.1	20.9	0.162	0.214	0.064	0.084	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	27710	2310	25	12	22.1	20.9	0.170	0.224	0.067	0.088	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	27710	2310	1	25	22.1	20.9	0.027	0.036	0.013	0.017	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	27710	2310	25	12	22.1	20.9	0.027	0.036	0.013	0.017	
ANT 2	Head	QPSK	Mode A	0	Left Cheek	27710	2310	1	25	21.1	21.0	0.290	0.297	0.172	0.176	
ANT 2	Head	QPSK	Mode A	0	Left Cheek	27710	2310	25	12	21.1	20.9	0.290	0.304	0.173	0.181	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	27710	2310	1	25	21.1	21.0	0.282	0.289	0.140	0.143	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	27710	2310	25	12	21.1	20.9	0.286	0.299	0.141	0.148	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	27710	2310	1	25	21.1	21.0	0.756	0.774	0.431	0.441	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	27710	2310	25	12	21.1	20.9	0.762	0.798	0.437	0.458	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	27710	2310	1	25	21.1	21.0	0.504	0.516	0.247	0.253	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	27710	2310	25	12	21.1	20.9	0.504	0.528	0.249	0.261	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	27710	2310	1	25	20.4	19.8	0.679	0.780	0.296	0.340	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	27710	2310	25	12	20.4	19.6	0.696	0.837	0.308	0.370	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	27710	2310	1	25	20.4	19.8	0.289	0.332	0.169	0.194	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	27710	2310	25	12	20.4	19.6	0.286	0.344	0.167	0.201	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	27710	2310	1	25	20.4	19.8	0.244	0.280	0.109	0.125	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	27710	2310	25	12	20.4	19.6	0.241	0.290	0.108	0.130	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	27710	2310	1	25	20.4	19.8	0.016	0.018	0.008	0.009	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	27710	2310	25	12	20.4	19.6	0.016	0.019	0.007	0.008	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	27710	2310	1	25	20.4	19.8	0.541	0.621	0.257	0.295	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	27710	2310	25	12	20.4	19.6	0.537	0.646	0.256	0.308	
ANT 3	Head	QPSK	Mode A	0	Left Cheek	27710	2310	1	25	22.0	21.1	0.101	0.124	0.060	0.074	
ANT 3	Head	QPSK	Mode A	0	Left Cheek	27710	2310	25	12	22.0	21.2	0.100	0.120	0.059	0.071	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	27710	2310	1	25	22.0	21.1	0.059	0.073	0.031	0.038	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	27710	2310	25	12	22.0	21.2	0.060	0.072	0.031	0.037	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	27710	2310	1	25	22.0	21.1	0.079	0.097	0.045	0.055	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	27710	2310	25	12	22.0	21.2	0.081	0.097	0.046	0.055	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	27710	2310	1	25	22.0	21.1	0.070	0.086	0.038	0.047	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	27710	2310	25	12	22.0	21.2	0.068	0.082	0.037	0.044	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	27710	2310	1	25	21.6	20.3	0.687	0.927	0.322	0.434	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	27710	2310	25	12	21.6	20.3	0.696	0.939	0.327	0.441	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	27710	2310	50	0	21.6	20.3	0.656	0.885	0.307	0.414	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	27710	2310	1	25	21.6	20.3	0.509	0.687	0.262	0.353	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	27710	2310	25	12	21.6	20.3	0.507	0.684	0.261	0.352	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	27710	2310	1	25	21.6	20.3	0.324	0.437	0.160	0.216	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	27710	2310	25	12	21.6	20.3	0.350	0.472	0.171	0.231	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	27710	2310	1	25	21.6	20.3	0.457	0.616	0.216	0.291	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	27710	2310	25	12	21.6	20.3	0.460	0.621	0.218	0.294	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	27710	2310	1	25	18.2	16.7	0.652	0.921	0.285	0.403	38
ANT 4	Head	QPSK	Mode A	0	Left Cheek	27710	2310	25	12	18.2	16.7	0.650	0.918	0.283	0.400	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	27710	2310	50	0	18.2	16.7	0.469	0.662	0.214	0.302	
ANT 4	Head	QPSK	Mode A	0	Left Tilt	27710	2310	1	25	18.2	16.7	0.164	0.232	0.085	0.120	
ANT 4	Head	QPSK	Mode A	0	Left Tilt	27710	2310	25	12	18.2	16.7	0.127	0.179	0.069	0.097	
ANT 4	Head	QPSK	Mode A	0	Right Cheek	27710	2310	1	25	18.2	16.7	0.144	0.203	0.078	0.110	
ANT 4	Head	QPSK	Mode A	0	Right Cheek	27710	2310	25	12	18.2	16.7	0.147	0.208	0.079	0.112	
ANT 4	Head	QPSK	Mode A	0	Right Tilt	27710	2310	1	25	18.2	16.7	0.079	0.112	0.043	0.061	
ANT 4	Head	QPSK	Mode A	0	Right Tilt	27710	2310	25	12	18.2	16.7	0.081	0.114	0.044	0.062	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Back	27710	2310	1	25	19.0	17.9	0.448	0.577	0.203	0.262	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Back	27710	2310	25	12	19.0	17.9	0.420	0.541	0.195	0.251	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Front	27710	2310	1	25	19.0	17.9	0.356	0.459	0.161	0.207	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Front	27710	2310	25	12	19.0	17.9	0.352	0.453	0.160	0.206	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Top	27710	2310	1	25	19.0	17.9	0.078	0.100	0.035	0.045	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Top	27710	2310	25	12	19.0	17.9	0.074	0.095	0.032	0.041	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	27710	2310	1	25	19.0	17.9	0.703	0.906	0.306	0.394	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	27710	2310	25	12	19.0	17.9	0.712	0.917	0.312	0.402	39
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	27710	2310	50	0	19.0	17.9	0.661	0.852	0.293	0.377	

### 10.14. LTE Band 41 PC3 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	QPSK	Mode A	0	Left Cheek	40620	2593	1	49	25.7	25.4	0.125	0.134	0.070	0.075	
ANT 1	Head	QPSK	Mode A	0	Left Cheek	40620	2593	50	24	24.7	24.6	0.103	0.105	0.057	0.058	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	40620	2593	1	49	25.7	25.4	0.199	0.213	0.100	0.107	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	40620	2593	50	24	24.7	24.6	0.105	0.107	0.053	0.054	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	40620	2593	1	49	25.7	25.4	0.240	0.257	0.127	0.136	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	40620	2593	50	24	24.7	24.6	0.272	0.278	0.145	0.148	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	40620	2593	1	49	25.7	25.4	0.103	0.110	0.054	0.058	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	40620	2593	50	24	24.7	24.6	0.087	0.089	0.045	0.046	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	39750	2506	1	49	22.5	22.3	0.726	0.760	0.329	0.345	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	39750	2506	50	24	22.5	22.3	0.738	0.773	0.337	0.353	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	40185	2549.5	1	49	22.5	22.0	0.650	0.729	0.294	0.330	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	40185	2549.5	50	24	22.5	22.0	0.653	0.733	0.297	0.333	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	40620	2593	1	49	22.5	22.1	0.799	0.876	0.356	0.390	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	40620	2593	50	24	22.5	22.1	0.806	0.884	0.359	0.394	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	40620	2593	100	0	22.5	22.2	0.807	0.865	0.362	0.388	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	41055	2636.5	1	49	22.5	22.0	0.745	0.836	0.369	0.414	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	41055	2636.5	50	24	22.5	22.0	0.764	0.857	0.378	0.424	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	41490	2680	1	49	22.5	22.1	0.852	0.934	0.378	0.414	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	41490	2680	50	24	22.5	22.2	0.881	0.944	0.392	0.420	40
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	40620	2593	1	49	22.5	22.1	0.456	0.500	0.208	0.228	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	40620	2593	50	24	22.5	22.1	0.459	0.503	0.210	0.230	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	39750	2506	1	49	22.5	22.3	0.700	0.733	0.310	0.325	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	39750	2506	50	24	22.5	22.2	0.806	0.864	0.350	0.375	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	40185	2549.5	1	49	22.5	22.0	0.708	0.794	0.309	0.347	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	40185	2549.5	50	24	22.5	22.0	0.712	0.799	0.311	0.349	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	40620	2593	1	49	22.5	22.1	0.814	0.893	0.342	0.375	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	40620	2593	50	24	22.5	22.1	0.819	0.898	0.342	0.375	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	40620	2593	100	0	22.5	22.2	0.665	0.713	0.288	0.309	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	41055	2636.5	1	49	22.5	22.0	0.688	0.772	0.291	0.327	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	41055	2636.5	50	24	22.5	22.0	0.728	0.817	0.308	0.346	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	41490	2680	1	49	22.5	22.1	0.773	0.848	0.324	0.355	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	41490	2680	50	24	22.5	22.2	0.798	0.855	0.334	0.358	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	40620	2593	1	49	22.5	22.1	0.398	0.436	0.168	0.184	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	40620	2593	50	24	22.5	22.1	0.400	0.439	0.168	0.184	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	40620	2593	1	49	22.5	22.1	0.017	0.019	0.007	0.008	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	40620	2593	50	24	22.5	22.1	0.016	0.018	0.007	0.008	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	QPSK	Mode A	0	Left Cheek	40620	2593	1	49	21.0	20.4	0.577	0.662	0.209	0.240	
ANT 2	Head	QPSK	Mode A	0	Left Cheek	40620	2593	50	24	21.0	20.4	0.581	0.667	0.212	0.243	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	40620	2593	1	49	21.0	20.4	0.639	0.734	0.246	0.282	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	40620	2593	50	24	21.0	20.4	0.635	0.729	0.245	0.281	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	40620	2593	1	49	21.0	20.4	0.515	0.591	0.205	0.235	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	40620	2593	50	24	21.0	20.4	0.512	0.588	0.203	0.233	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	40620	2593	1	49	21.0	20.4	0.504	0.579	0.195	0.224	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	40620	2593	50	24	21.0	20.4	0.508	0.583	0.195	0.224	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	40620	2593	1	49	20.6	20.0	0.524	0.602	0.246	0.282	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	40620	2593	50	24	20.6	20.0	0.526	0.604	0.248	0.285	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	40620	2593	1	49	20.6	20.0	0.405	0.465	0.160	0.184	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	40620	2593	50	24	20.6	20.0	0.401	0.460	0.159	0.183	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	40620	2593	1	49	20.6	20.0	0.679	0.780	0.243	0.279	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	40620	2593	50	24	20.6	20.0	0.673	0.773	0.240	0.276	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	40620	2593	1	49	20.6	20.0	0.068	0.078	0.030	0.034	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	40620	2593	50	24	20.6	20.0	0.066	0.076	0.029	0.033	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	40620	2593	1	49	20.6	20.0	0.357	0.410	0.166	0.191	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	40620	2593	50	24	20.6	20.0	0.353	0.405	0.165	0.189	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	QPSK	Mode A	0	Left Cheek	40620	2593	1	49	24.5	24.0	0.193	0.217	0.099	0.111	
ANT 3	Head	QPSK	Mode A	0	Left Cheek	40620	2593	50	24	24.5	24.0	0.178	0.200	0.095	0.107	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	40620	2593	1	49	24.5	24.0	0.078	0.088	0.036	0.040	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	40620	2593	50	24	24.5	24.0	0.090	0.101	0.044	0.049	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	40620	2593	1	49	24.5	24.0	0.069	0.077	0.039	0.044	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	40620	2593	50	24	24.5	24.0	0.063	0.071	0.035	0.039	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	40620	2593	1	49	24.5	24.0	0.089	0.100	0.045	0.050	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	40620	2593	50	24	24.5	24.0	0.090	0.101	0.047	0.053	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	40620	2593	1	49	21.2	21.2	0.634	0.634	0.298	0.298	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	40620	2593	50	24	21.2	21.2	0.655	0.655	0.305	0.305	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	40620	2593	1	49	21.2	21.2	0.556	0.556	0.268	0.268	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	40620	2593	50	24	21.2	21.2	0.563	0.563	0.273	0.273	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	40620	2593	1	49	21.2	21.2	0.476	0.476	0.233	0.233	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	40620	2593	50	24	21.2	21.2	0.469	0.469	0.229	0.229	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	40620	2593	1	49	21.2	21.2	0.711	0.711	0.304	0.304	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	40620	2593	50	24	21.2	21.2	0.738	0.738	0.315	0.315	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 4	Head	QPSK	Mode A	0	Left Cheek	39750	2506	1	49	20.7	20.4	0.585	0.627	0.246	0.264	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	39750	2506	50	24	20.7	20.4	0.670	0.718	0.281	0.301	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	40185	2549.5	1	49	20.7	20.5	0.862	0.903	0.363	0.380	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	40185	2549.5	50	24	20.7	20.6	0.771	0.789	0.311	0.318	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	40620	2593	1	49	20.7	20.2	0.822	<b>0.922</b>	0.344	0.386	41
ANT 4	Head	QPSK	Mode A	0	Left Cheek	40620	2593	50	24	20.7	20.3	0.826	0.906	0.343	0.376	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	40620	2593	100	0	20.7	20.5	0.831	0.870	0.344	0.360	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	41055	2636.5	1	49	20.7	20.3	0.728	0.798	0.284	0.311	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	41055	2636.5	50	24	20.7	20.4	0.680	0.729	0.264	0.283	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	41490	2680	1	49	20.7	20.2	0.589	0.661	0.223	0.250	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	41490	2680	50	24	20.7	20.3	0.621	0.681	0.239	0.262	
ANT 4	Head	QPSK	Mode A	0	Left Tilt	40620	2593	1	49	20.7	20.2	0.153	0.172	0.078	0.088	
ANT 4	Head	QPSK	Mode A	0	Left Tilt	40620	2593	50	24	20.7	20.3	0.153	0.168	0.078	0.086	
ANT 4	Head	QPSK	Mode A	0	Right Cheek	40620	2593	1	49	20.7	20.2	0.202	0.227	0.107	0.120	
ANT 4	Head	QPSK	Mode A	0	Right Cheek	40620	2593	50	24	20.7	20.3	0.207	0.227	0.111	0.122	
ANT 4	Head	QPSK	Mode A	0	Right Tilt	40620	2593	1	49	20.7	20.2	0.057	0.064	0.031	0.035	
ANT 4	Head	QPSK	Mode A	0	Right Tilt	40620	2593	50	24	20.7	20.3	0.059	0.065	0.032	0.035	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Back	40620	2593	1	49	20.1	19.6	0.362	0.406	0.161	0.181	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Back	40620	2593	50	24	20.1	19.7	0.366	0.401	0.161	0.177	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Front	40620	2593	1	49	20.1	19.6	0.288	0.323	0.128	0.144	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Front	40620	2593	50	24	20.1	19.7	0.290	0.318	0.128	0.140	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Top	40620	2593	1	49	20.1	19.6	0.042	0.047	0.020	0.022	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Top	40620	2593	50	24	20.1	19.7	0.041	0.045	0.019	0.021	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	39750	2506	1	49	20.1	19.0	0.686	0.884	0.298	0.384	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	39750	2506	50	24	20.1	19.0	0.709	<b>0.913</b>	0.307	0.395	42
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	40185	2549.5	1	49	20.1	19.8	0.715	0.766	0.306	0.328	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	40185	2549.5	50	24	20.1	19.9	0.747	0.782	0.316	0.331	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	40620	2593	1	49	20.1	19.6	0.751	0.843	0.343	0.385	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	40620	2593	50	24	20.1	19.7	0.766	0.840	0.316	0.346	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	40620	2593	100	0	20.1	19.8	0.693	0.743	0.289	0.310	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	41055	2636.5	1	49	20.1	19.7	0.540	0.592	0.224	0.246	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	41055	2636.5	50	24	20.1	19.8	0.548	0.587	0.227	0.243	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	41490	2680	1	49	20.1	19.7	0.400	0.439	0.163	0.179	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	41490	2680	50	24	20.1	19.8	0.407	0.436	0.166	0.178	

**UL CA 41C PC3**

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	PCC UL				SCC UL				Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
						Channel	Freq. (MHz)	RB Allocation	RB Offset	Channel	Freq. (MHz)	RB Allocation	RB Offset							
ANT 1	Head	QPSK	Mode A	0	Right Cheek	40521	2583.1	1	99	40719	2602.9	1	0	25.7	25.0	0.108	<b>0.127</b>	0.059	0.069	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	41292	2660.2	1	99	41490	2680	1	0	22.5	21.8	0.257	<b>0.302</b>	0.118	0.139	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	40521	2583.1	1	99	40719	2602.9	1	0	21.0	20.5	0.307	<b>0.344</b>	0.112	0.126	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	40521	2583.1	1	99	40719	2602.9	1	0	20.6	19.7	0.241	<b>0.296</b>	0.098	0.121	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	40521	2583.1	1	99	40719	2602.9	1	0	20.6	19.7	0.174	<b>0.214</b>	0.065	0.080	
ANT 3	Head	QPSK	Mode A	0	Left Cheek	40521	2583.1	1	99	40719	2602.9	1	0	24.5	24.1	0.015	<b>0.016</b>	0.008	0.009	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	40521	2583.1	1	99	40719	2602.9	1	0	21.2	20.9	0.263	<b>0.282</b>	0.114	0.122	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	39750	2506	1	99	39948	2525.8	1	0	20.7	20.3	0.441	<b>0.484</b>	0.196	0.204	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Back	40521	2583.1	1	99	40719	2602.9	1	0	20.1	20.0	0.282	<b>0.289</b>	0.123	0.126	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	39750	2506	1	99	39948	2525.8	1	0	20.1	20.1	0.319	<b>0.319</b>	0.137	0.137	

**Note(s):**

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.



### 10.15. LTE Band 41 PC2 (20MHz Bandwidth)

From May 2017 TCB Workshop, SAR tested were performed using Power Class 3. SAR test for Power Class 2 is tested using the highest SAR test configuration in Power Class 3 for each LTE configuration and exposure condition combination. According to the highest time averaged power for UL-DL configurations, configuration # 1 with duty cycle 43.3% is used for Power Class 2 SAR test.

Additional SAR testing for Power Class 2 is not required when:

- The reported SAR vs. output power can be linearly scaled with < 10% discrepancy between power classes and all reported SAR are < 1.4 W/kg

#### Reported SAR vs. Output Power linearly scaled

Antenna	RF Exposure Condition	LTE B41 PC2			LTE B41 PC3				PC2 Linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)	Testing Required
		Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Reported SAR (W/kg)			
ANT 1	Head	43.3%	27.4	238.0	63.3%	25.7	235.2	0.278	0.282	1.3%	No
ANT 1	Body & Hotspot	43.3%	24.1	111.3	63.3%	22.5	112.6	0.944	0.933	-1.2%	No
ANT 1	Hotspot	43.3%	24.1	111.3	63.3%	22.5	112.6	0.944	0.933	-1.2%	No
Antenna	RF Exposure Condition	LTE B41 PC2			LTE B41 PC3				PC2 Linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)	Testing Required
		Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Reported SAR (W/kg)			
ANT 2	Head	43.3%	22.6	78.8	63.3%	21.0	79.7	0.734	0.725	-1.2%	No
ANT 2	Body & Hotspot	43.3%	22.2	71.9	63.3%	20.6	72.7	0.604	0.597	-1.1%	No
ANT 2	Hotspot	43.3%	22.2	71.9	63.3%	20.6	72.7	0.780	0.771	-1.1%	No
Antenna	RF Exposure Condition	LTE B41 PC2			LTE B41 PC3				PC2 Linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)	Testing Required
		Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Reported SAR (W/kg)			
ANT 3	Head	43.3%	26.1	176.4	63.3%	24.5	178.4	0.217	0.214	-1.2%	No
ANT 3	Body & Hotspot	43.3%	22.8	82.5	63.3%	21.2	83.5	0.655	0.648	-1.1%	No
ANT 3	Hotspot	43.3%	22.8	82.5	63.3%	21.2	83.5	0.738	0.730	-1.1%	No
Antenna	RF Exposure Condition	LTE B41 PC2			LTE B41 PC3				PC2 Linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)	Testing Required
		Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Reported SAR (W/kg)			
ANT 4	Head	43.3%	22.3	73.5	63.3%	20.7	74.4	0.922	0.912	-1.1%	No
ANT 4	Body & Hotspot	43.3%	21.7	64.1	63.3%	20.1	64.8	0.406	0.402	-1.0%	No
ANT 4	Hotspot	43.3%	21.7	64.1	63.3%	20.1	64.8	0.913	0.903	-1.1%	No

#### Conclusion:

SAR test for Power Class 2 is not required because the PC3 reported SAR <1.4 W/kg and PC2 reported SAR vs. output power linearly scaled <10%.

#### UL CA 41C PC2

Antenna	RF Exposure Condition	Mode	Power Mode	LTE ULCA 41C PC2			LTE ULCA 41C PC3				PC2 Linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)	Testing Required
				Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Reported SAR (W/kg)			
ANT 1	Head	QPSK	Mode A	43.3%	27.4	238.0	63.3%	25.7	235.2	0.127	0.128	0.8%	No
ANT 1	Body & Hotspot	QPSK	Mode B	43.3%	24.1	111.3	63.3%	22.5	112.6	0.302	0.299	-1.0%	No
Antenna	RF Exposure Condition	Mode	Power Mode	LTE ULCA 41C PC2			LTE ULCA 41C PC3				PC2 Linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)	Testing Required
				Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Reported SAR (W/kg)			
ANT 2	Head	QPSK	Mode A	43.3%	22.6	78.8	63.3%	21.0	79.7	0.344	0.340	-1.2%	No
ANT 2	Body & Hotspot	QPSK	Mode B	43.3%	22.2	71.9	63.3%	20.6	72.7	0.296	0.293	-1.0%	No
ANT 2	Hotspot	QPSK	Mode B	43.3%	22.2	71.9	63.3%	20.6	72.7	0.214	0.212	-0.9%	No
Antenna	RF Exposure Condition	Mode	Power Mode	LTE ULCA 41C PC2			LTE ULCA 41C PC3				PC2 Linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)	Testing Required
				Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Reported SAR (W/kg)			
ANT 3	Head	QPSK	Mode A	43.3%	26.1	176.4	63.3%	24.5	178.4	0.016	0.016	0.0%	No
ANT 3	Body & Hotspot	QPSK	Mode B	43.3%	22.8	82.5	63.3%	21.2	83.5	0.282	0.279	-1.1%	No
Antenna	RF Exposure Condition	Mode	Power Mode	LTE ULCA 41C PC2			LTE ULCA 41C PC3				PC2 Linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)	Testing Required
				Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Reported SAR (W/kg)			
ANT 4	Head	QPSK	Mode A	43.3%	22.3	73.5	63.3%	20.7	74.4	0.484	0.479	-1.0%	No
ANT 4	Body & Hotspot	QPSK	Mode B	43.3%	21.7	64.1	63.3%	20.1	64.8	0.289	0.286	-1.0%	No
ANT 4	Hotspot	QPSK	Mode B	43.3%	21.7	64.1	63.3%	20.1	64.8	0.319	0.315	-1.3%	No

### 10.16. LTE Band 48 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 7	Head	QPSK	Mode A	0	Left Cheek	56207	3646.7	1	49	23.5	23.1	0.036	0.039	0.016	0.018	
ANT 7	Head	QPSK	Mode A	0	Left Cheek	56207	3646.7	50	24	23.5	23.3	0.038	0.040	0.017	0.018	
ANT 7	Head	QPSK	Mode A	0	Left Tilt	56207	3646.7	1	49	23.5	23.1	0.047	0.052	0.021	0.023	
ANT 7	Head	QPSK	Mode A	0	Left Tilt	56207	3646.7	50	24	23.5	23.3	0.049	0.051	0.022	0.023	
ANT 7	Head	QPSK	Mode A	0	Right Cheek	56207	3646.7	1	49	23.5	23.1	0.119	0.130	0.050	0.055	
ANT 7	Head	QPSK	Mode A	0	Right Cheek	56207	3646.7	50	24	23.5	23.3	0.176	0.184	0.075	0.079	
ANT 7	Head	QPSK	Mode A	0	Right Tilt	56207	3646.7	1	49	23.5	23.1	0.038	0.042	0.017	0.019	
ANT 7	Head	QPSK	Mode A	0	Right Tilt	56207	3646.7	50	24	23.5	23.3	0.040	0.042	0.018	0.019	
ANT 7	Body & Hotspot	QPSK	Mode B	5	Back	56207	3646.7	1	49	20.3	19.5	0.463	0.557	0.171	0.206	
ANT 7	Body & Hotspot	QPSK	Mode B	5	Back	56207	3646.7	50	24	20.3	19.6	0.473	0.556	0.176	0.207	
ANT 7	Body & Hotspot	QPSK	Mode B	5	Front	56207	3646.7	1	49	20.3	19.5	0.168	0.202	0.060	0.072	
ANT 7	Body & Hotspot	QPSK	Mode B	5	Front	56207	3646.7	50	24	20.3	19.6	0.181	0.213	0.065	0.076	
ANT 7	Hotspot	QPSK	Mode B	5	Edge Right	56207	3646.7	1	49	20.3	19.5	0.529	0.636	0.199	0.239	
ANT 7	Hotspot	QPSK	Mode B	5	Edge Right	56207	3646.7	50	24	20.3	19.6	0.545	0.640	0.204	0.240	
ANT 7	Hotspot	QPSK	Mode B	5	Edge Bottom	56207	3646.7	1	49	20.3	19.5	0.179	0.215	0.058	0.070	
ANT 7	Hotspot	QPSK	Mode B	5	Edge Bottom	56207	3646.7	50	24	20.3	19.6	0.178	0.209	0.058	0.068	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 8	Head	QPSK	Mode A	0	Left Cheek	56207	3646.7	1	49	22.2	22.1	0.749	0.766	0.245	0.251	
ANT 8	Head	QPSK	Mode A	0	Left Cheek	56207	3646.7	50	24	22.2	22.2	0.764	0.764	0.249	0.249	
ANT 8	Head	QPSK	Mode A	0	Left Tilt	55340	3560	1	49	22.2	22.2	0.670	0.670	0.212	0.212	
ANT 8	Head	QPSK	Mode A	0	Left Tilt	55340	3560	50	24	22.2	22.1	0.696	0.712	0.219	0.224	
ANT 8	Head	QPSK	Mode A	0	Left Tilt	55773	3603.3	1	49	22.2	22.2	0.605	0.605	0.186	0.186	
ANT 8	Head	QPSK	Mode A	0	Left Tilt	55773	3603.3	50	24	22.2	22.1	0.741	0.758	0.222	0.227	
ANT 8	Head	QPSK	Mode A	0	Left Tilt	56207	3646.7	1	49	22.2	22.1	0.802	0.821	0.239	0.245	
ANT 8	Head	QPSK	Mode A	0	Left Tilt	56207	3646.7	50	24	22.2	22.2	0.856	0.856	0.254	0.254	
ANT 8	Head	QPSK	Mode A	0	Left Tilt	56207	3646.7	100	0	22.2	21.9	0.872	0.934	0.260	0.279	43
ANT 8	Head	QPSK	Mode A	0	Left Tilt	56640	3690	1	49	22.2	22.0	0.690	0.723	0.198	0.207	
ANT 8	Head	QPSK	Mode A	0	Left Tilt	56640	3690	50	24	22.2	22.1	0.709	0.726	0.203	0.208	
ANT 8	Head	QPSK	Mode A	0	Right Cheek	56207	3646.7	1	49	22.2	22.1	0.469	0.480	0.179	0.183	
ANT 8	Head	QPSK	Mode A	0	Right Cheek	56207	3646.7	50	24	22.2	22.2	0.468	0.468	0.180	0.180	
ANT 8	Head	QPSK	Mode A	0	Right Tilt	56207	3646.7	1	49	22.2	22.1	0.534	0.546	0.199	0.204	
ANT 8	Head	QPSK	Mode A	0	Right Tilt	56207	3646.7	50	24	22.2	22.2	0.547	0.547	0.204	0.204	
ANT 8	Body & Hotspot	QPSK	Mode B	5	Back	56207	3646.7	1	49	22.2	20.9	0.377	0.509	0.136	0.183	
ANT 8	Body & Hotspot	QPSK	Mode B	5	Back	56207	3646.7	50	24	22.2	20.8	0.384	0.530	0.139	0.192	
ANT 8	Body & Hotspot	QPSK	Mode B	5	Front	56207	3646.7	1	49	22.2	20.9	0.309	0.417	0.106	0.143	
ANT 8	Body & Hotspot	QPSK	Mode B	5	Front	56207	3646.7	50	24	22.2	20.8	0.307	0.424	0.105	0.145	
ANT 8	Hotspot	QPSK	Mode B	5	Edge Top	56207	3646.7	1	49	22.2	20.9	0.516	0.696	0.161	0.217	
ANT 8	Hotspot	QPSK	Mode B	5	Edge Top	56207	3646.7	50	24	22.2	20.8	0.528	0.729	0.166	0.229	
ANT 8	Hotspot	QPSK	Mode B	5	Edge Left	56207	3646.7	1	49	22.2	20.9	0.057	0.077	0.021	0.028	
ANT 8	Hotspot	QPSK	Mode B	5	Edge Left	56207	3646.7	50	24	22.2	20.8	0.058	0.080	0.021	0.029	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 9	Head	QPSK	Mode A	0	Left Cheek	56207	3646.7	1	49	21.6	20.7	0.082	0.101	0.036	0.044	
ANT 9	Head	QPSK	Mode A	0	Left Cheek	56207	3646.7	50	24	21.6	20.8	0.086	0.103	0.037	0.044	
ANT 9	Head	QPSK	Mode A	0	Left Tilt	56207	3646.7	1	49	21.6	20.7	0.020	0.025	0.007	0.009	
ANT 9	Head	QPSK	Mode A	0	Left Tilt	56207	3646.7	50	24	21.6	20.8	0.016	0.019	0.002	0.002	
ANT 9	Head	QPSK	Mode A	0	Right Cheek	56207	3646.7	1	49	21.6	20.7	0.038	0.047	0.017	0.021	
ANT 9	Head	QPSK	Mode A	0	Right Cheek	56207	3646.7	50	24	21.6	20.8	0.044	0.053	0.019	0.023	
ANT 9	Head	QPSK	Mode A	0	Right Tilt	56207	3646.7	1	49	21.6	20.7	0.033	0.041	0.011	0.014	
ANT 9	Head	QPSK	Mode A	0	Right Tilt	56207	3646.7	50	24	21.6	20.8	0.032	0.038	0.011	0.013	
ANT 9	Body & Hotspot	QPSK	Mode B	5	Back	56207	3646.7	1	49	20.6	20.0	0.660	0.758	0.224	0.257	
ANT 9	Body & Hotspot	QPSK	Mode B	5	Back	56207	3646.7	50	24	20.6	20.0	0.661	0.759	0.224	0.257	44
ANT 9	Body & Hotspot	QPSK	Mode B	5	Front	56207	3646.7	1	49	20.6	20.0	0.332	0.381	0.120	0.138	
ANT 9	Body & Hotspot	QPSK	Mode B	5	Front	56207	3646.7	50	24	20.6	20.0	0.331	0.380	0.120	0.138	
ANT 9	Hotspot	QPSK	Mode B	5	Edge Bottom	56207	3646.7	1	49	20.6	20.0	0.197	0.226	0.076	0.087	
ANT 9	Hotspot	QPSK	Mode B	5	Edge Bottom	56207	3646.7	50	24	20.6	20.0	0.196	0.225	0.076	0.087	
ANT 9	Hotspot	QPSK	Mode B	5	Edge Left	56207	3646.7	1	49	20.6	20.0	0.615	0.706	0.228	0.262	
ANT 9	Hotspot	QPSK	Mode B	5	Edge Left	56207	3646.7	50	24	20.6	20.0	0.620	0.712	0.231	0.265	



**LTE Band 48 (20MHz Bandwidth)**

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (m)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 4	Head	QPSK	Mode A	0	Left Cheek	55340	3560	1	49	21.5	20.2	0.581	0.784	0.219	0.295	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	55340	3560	50	24	21.5	20.4	0.597	0.769	0.225	0.290	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	55773	3603.3	1	49	21.5	20.3	0.574	0.757	0.218	0.287	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	55773	3603.3	50	24	21.5	20.4	0.651	0.839	0.237	0.305	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	56207	3646.7	1	49	21.5	20.2	0.632	0.853	0.230	0.310	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	56207	3646.7	50	24	21.5	20.3	0.634	0.836	0.232	0.306	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	56207	3646.7	100	0	21.5	20.4	0.629	0.810	0.230	0.296	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	56640	3690	1	49	21.5	20.3	0.587	0.774	0.225	0.297	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	56640	3690	50	24	21.5	20.4	0.604	0.778	0.232	0.299	
ANT 4	Head	QPSK	Mode A	0	Left Tilt	56207	3646.7	1	49	21.5	20.2	0.223	0.301	0.093	0.125	
ANT 4	Head	QPSK	Mode A	0	Left Tilt	56207	3646.7	50	24	21.5	20.3	0.190	0.250	0.078	0.103	
ANT 4	Head	QPSK	Mode A	0	Right Cheek	56207	3646.7	1	49	21.5	20.2	0.129	0.174	0.058	0.078	
ANT 4	Head	QPSK	Mode A	0	Right Cheek	56207	3646.7	50	24	21.5	20.3	0.128	0.169	0.061	0.080	
ANT 4	Head	QPSK	Mode A	0	Right Tilt	56207	3646.7	1	49	21.5	20.2	0.056	0.076	0.023	0.031	
ANT 4	Head	QPSK	Mode A	0	Right Tilt	56207	3646.7	50	24	21.5	20.3	0.062	0.082	0.027	0.036	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Back	56207	3646.7	1	49	20.7	20.2	0.578	0.649	0.229	0.257	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Back	56207	3646.7	50	24	20.7	20.3	0.511	0.560	0.213	0.234	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Front	56207	3646.7	1	49	20.7	20.2	0.473	0.531	0.188	0.211	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Front	56207	3646.7	50	24	20.7	20.3	0.486	0.533	0.193	0.212	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Top	56207	3646.7	1	49	20.7	20.2	0.068	0.076	0.033	0.037	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Top	56207	3646.7	50	24	20.7	20.3	0.064	0.070	0.030	0.033	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	55340	3560	1	49	20.7	20.0	0.569	0.669	0.216	0.254	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	55340	3560	50	24	20.7	20.1	0.588	0.675	0.221	0.254	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	55773	3603.3	1	49	20.7	20.1	0.595	0.683	0.222	0.255	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	55773	3603.3	50	24	20.7	20.3	0.618	0.678	0.231	0.253	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	56207	3646.7	1	49	20.7	20.2	0.739	0.829	0.274	0.307	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	56207	3646.7	50	24	20.7	20.3	0.736	0.807	0.273	0.299	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	56207	3646.7	100	0	20.7	20.3	0.724	0.794	0.268	0.294	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	56640	3690	1	49	20.7	20.1	0.811	0.931	0.298	0.342	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	56640	3690	50	24	20.7	20.2	0.830	<b>0.931</b>	0.304	0.341	45

**UL CA 48C**

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (m)	Test Position	PCC UL				SCC UL				Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
						Channel	Freq. (MHz)	RB Allocation	RB Offset	Channel	Freq. (MHz)	RB Allocation	RB Offset							
ANT 7	Head	QPSK	Mode A	0	Right Cheek	55891	3615.1	1	99	56089	3634.9	1	0	23.5	22.0	0.067	<b>0.095</b>	0.028	0.040	
ANT 7	Body & Hotspot	QPSK	Mode B	5	Back	55891	3615.1	1	99	56089	3634.9	1	0	20.3	19.1	0.185	<b>0.244</b>	0.069	0.091	
ANT 7	Hotspot	QPSK	Mode B	5	Edge Right	55891	3615.1	1	99	56089	3634.9	1	0	20.3	19.1	0.257	<b>0.339</b>	0.092	0.121	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (m)	Test Position	PCC UL				SCC UL				Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
						Channel	Freq. (MHz)	RB Allocation	RB Offset	Channel	Freq. (MHz)	RB Allocation	RB Offset							
ANT 8	Head	QPSK	Mode A	0	Left Tilt	56442.00	3670.2	1	99	56640	3690	1	0	22.2	22.0	0.193	<b>0.202</b>	0.059	0.062	
ANT 8	Body & Hotspot	QPSK	Mode B	5	Back	56442.00	3670.2	1	99	56640	3690	1	0	22.2	20.9	0.086	<b>0.116</b>	0.032	0.043	
ANT 8	Hotspot	QPSK	Mode B	5	Edge Top	56442.00	3670.2	1	99	56640	3690	1	0	22.2	20.9	0.116	<b>0.156</b>	0.035	0.047	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (m)	Test Position	PCC UL				SCC UL				Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
						Channel	Freq. (MHz)	RB Allocation	RB Offset	Channel	Freq. (MHz)	RB Allocation	RB Offset							
ANT 9	Head	QPSK	Mode A	0	Left Cheek	55891	3615.1	1	99	56089	3634.9	1	0	21.6	20.1	0.077	<b>0.109</b>	0.031	0.044	
ANT 9	Body & Hotspot	QPSK	Mode B	5	Back	55891	3615.1	1	99	56089	3634.9	1	0	20.6	19.9	0.325	<b>0.382</b>	0.110	0.129	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (m)	Test Position	PCC UL				SCC UL				Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
						Channel	Freq. (MHz)	RB Allocation	RB Offset	Channel	Freq. (MHz)	RB Allocation	RB Offset							
ANT 4	Head	QPSK	Mode A	0	Left Cheek	55891	3670.2	1	99	56089	3690	1	0	21.5	20.4	0.307	<b>0.395</b>	0.113	0.146	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Back	55891	3615.1	1	99	56089	3634.9	1	0	20.7	19.8	0.195	<b>0.240</b>	0.075	0.092	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	56442	3560	1	99	56640	3579.8	1	0	20.7	20.1	0.158	<b>0.181</b>	0.162	0.186	

**Note(s):**

PCC RB allocation setting for UL CA has been adjusted based on the worst-case power.

### 10.17. LTE Band 53 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	QPSK	Mode A	0	Left Cheek	60197	2489.2	1	25	20.7	20.5	0.036	0.038	0.020	0.021	
ANT 1	Head	QPSK	Mode A	0	Left Cheek	60197	2489.2	25	12	20.7	20.5	0.038	0.040	0.021	0.022	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	60197	2489.2	1	25	20.7	20.5	0.043	0.045	0.022	0.023	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	60197	2489.2	25	12	20.7	20.5	0.043	0.045	0.023	0.024	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	60197	2489.2	1	25	20.7	20.5	0.091	0.095	0.051	0.053	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	60197	2489.2	25	12	20.7	20.5	0.093	0.097	0.051	0.053	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	60197	2489.2	1	25	20.7	20.5	0.034	0.036	0.018	0.019	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	60197	2489.2	25	12	20.7	20.5	0.037	0.039	0.021	0.022	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	60197	2489.2	1	25	20.7	20.5	0.424	0.444	0.193	0.202	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	60197	2489.2	25	12	20.7	20.5	0.349	0.365	0.169	0.177	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	60197	2489.2	1	25	20.7	20.5	0.330	0.346	0.163	0.171	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	60197	2489.2	25	12	20.7	20.5	0.340	0.356	0.167	0.175	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	60197	2489.2	1	25	20.7	20.5	0.450	0.471	0.198	0.207	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	60197	2489.2	25	12	20.7	20.5	0.437	0.458	0.193	0.202	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	60197	2489.2	1	25	20.7	20.5	0.283	0.296	0.118	0.124	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	60197	2489.2	25	12	20.7	20.5	0.286	0.299	0.119	0.125	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	60197	2489.2	1	25	20.7	20.5	0.014	0.015	0.006	0.006	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	60197	2489.2	25	12	20.7	20.5	0.016	0.017	0.007	0.007	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	QPSK	Mode A	0	Left Cheek	60197	2489.2	1	25	20.7	20.6	0.652	0.667	0.250	0.256	
ANT 2	Head	QPSK	Mode A	0	Left Cheek	60197	2489.2	25	12	20.7	20.6	0.656	0.671	0.252	0.258	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	60197	2489.2	1	25	20.7	20.6	0.694	<b>0.710</b>	0.262	0.268	46
ANT 2	Head	QPSK	Mode A	0	Left Tilt	60197	2489.2	25	12	20.7	20.6	0.694	0.710	0.261	0.267	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	60197	2489.2	1	25	20.7	20.6	0.519	0.531	0.229	0.234	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	60197	2489.2	25	12	20.7	20.6	0.522	0.534	0.229	0.234	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	60197	2489.2	1	25	20.7	20.6	0.486	0.497	0.202	0.207	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	60197	2489.2	25	12	20.7	20.6	0.484	0.495	0.201	0.206	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	60197	2489.2	1	25	20.1	19.8	0.761	0.815	0.312	0.334	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	60197	2489.2	25	12	20.1	19.9	0.865	0.906	0.346	0.362	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	60197	2489.2	50	0	20.1	19.8	0.857	<b>0.918</b>	0.344	0.369	47
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	60197	2489.2	1	25	20.1	19.8	0.267	0.286	0.116	0.124	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	60197	2489.2	25	12	20.1	19.9	0.261	0.273	0.114	0.119	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	60197	2489.2	1	25	20.1	19.8	0.633	<b>0.678</b>	0.231	0.248	48
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	60197	2489.2	25	12	20.1	19.9	0.555	0.581	0.204	0.214	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	60197	2489.2	1	25	20.1	19.8	0.049	0.053	0.022	0.024	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	60197	2489.2	25	12	20.1	19.9	0.049	0.051	0.023	0.024	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	60197	2489.2	1	25	20.1	19.8	0.391	0.419	0.188	0.201	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	60197	2489.2	25	12	20.1	19.9	0.393	0.412	0.188	0.197	

### 10.18. LTE Band 66 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	QPSK	Mode A	0	Left Cheek	132322	1745	1	49	24.2	23.5	0.076	0.089	0.050	0.059	
ANT 1	Head	QPSK	Mode A	0	Left Cheek	132322	1745	50	24	24.2	23.4	0.076	0.091	0.050	0.060	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	132322	1745	1	49	24.2	23.5	0.050	0.059	0.033	0.039	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	132322	1745	50	24	24.2	23.4	0.051	0.061	0.033	0.040	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	132322	1745	1	49	24.2	23.5	0.184	0.216	0.117	0.137	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	132322	1745	50	24	24.2	23.4	0.185	0.222	0.118	0.142	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	132322	1745	1	49	24.2	23.5	0.068	0.080	0.045	0.053	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	132322	1745	50	24	24.2	23.4	0.050	0.060	0.032	0.038	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	132322	1745	1	49	19.1	17.7	0.498	0.687	0.254	0.351	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	132322	1745	50	24	19.1	17.9	0.503	0.663	0.257	0.339	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	132322	1745	1	49	19.1	17.7	0.320	0.442	0.161	0.222	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	132322	1745	50	24	19.1	17.9	0.316	0.417	0.159	0.210	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	132322	1745	1	49	19.1	17.7	0.126	0.174	0.064	0.088	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	132322	1745	50	24	19.1	17.9	0.127	0.167	0.064	0.084	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	132322	1745	1	49	19.1	17.7	0.546	0.754	0.263	0.363	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	132322	1745	50	24	19.1	17.9	0.593	0.782	0.279	0.368	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	132322	1745	1	49	19.1	17.7	0.007	0.010	0.004	0.006	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	132322	1745	50	24	19.1	17.9	0.007	0.009	0.004	0.005	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	QPSK	Mode A	0	Left Cheek	132322	1745	1	49	19.8	19.1	0.479	0.563	0.231	0.271	
ANT 2	Head	QPSK	Mode A	0	Left Cheek	132322	1745	50	24	19.8	19.1	0.479	0.563	0.231	0.271	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	132322	1745	1	49	19.8	19.1	0.556	0.653	0.262	0.308	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	132322	1745	50	24	19.8	19.1	0.561	0.659	0.264	0.310	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	132072	1720	1	49	19.8	19.0	0.630	0.757	0.306	0.368	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	132072	1720	50	25	19.8	19.1	0.644	0.757	0.312	0.367	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	132322	1745	1	49	19.8	19.1	0.728	0.855	0.354	0.416	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	132322	1745	50	24	19.8	19.1	0.692	0.813	0.337	0.396	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	132322	1745	100	0	19.8	19.1	0.689	0.810	0.337	0.396	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	132572	1770	1	49	19.8	19.0	0.724	0.870	0.363	0.436	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	132572	1770	50	24	19.8	19.1	0.727	0.854	0.364	0.428	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	132072	1720	1	49	19.8	19.0	0.725	0.872	0.334	0.402	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	132072	1720	50	24	19.8	19.1	0.739	0.868	0.341	0.401	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	132322	1745	1	49	19.8	19.1	0.778	0.914	0.360	0.423	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	132322	1745	50	24	19.8	19.1	0.773	0.908	0.358	0.421	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	132572	1770	1	49	19.8	19.0	0.783	0.941	0.362	0.435	49
ANT 2	Head	QPSK	Mode A	0	Right Tilt	132572	1770	50	24	19.8	19.1	0.788	0.926	0.364	0.428	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	132322	1745	1	49	19.8	19.2	0.522	0.599	0.257	0.295	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	132322	1745	50	25	19.8	19.2	0.520	0.597	0.256	0.294	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	132322	1745	1	49	19.8	19.2	0.482	0.553	0.231	0.265	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	132322	1745	50	24	19.8	19.2	0.483	0.555	0.230	0.264	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	132072	1720	1	49	19.8	19.1	0.683	0.802	0.314	0.369	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	132072	1720	50	24	19.8	19.2	0.693	0.796	0.319	0.366	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	132322	1745	1	49	19.8	19.2	0.723	0.830	0.330	0.379	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	132322	1745	50	24	19.8	19.2	0.720	0.827	0.329	0.378	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	132322	1745	100	0	19.8	19.2	0.718	0.824	0.328	0.377	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	132572	1770	1	49	19.8	19.0	0.878	0.878	0.333	0.400	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	132572	1770	50	24	19.8	19.1	0.729	0.857	0.333	0.391	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	132322	1745	1	49	19.8	19.2	0.020	0.023	0.011	0.013	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	132322	1745	50	24	19.8	19.2	0.019	0.022	0.011	0.013	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	132322	1745	1	49	19.8	19.2	0.134	0.154	0.069	0.079	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	132322	1745	50	24	19.8	19.2	0.136	0.156	0.070	0.080	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	QPSK	Mode A	0	Left Cheek	132322	1745	1	49	21.6	21.2	0.208	0.228	0.134	0.147	
ANT 3	Head	QPSK	Mode A	0	Left Cheek	132322	1745	50	24	21.6	21.2	0.208	0.228	0.134	0.147	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	132322	1745	1	49	21.6	21.2	0.069	0.076	0.045	0.049	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	132322	1745	50	24	21.6	21.2	0.070	0.077	0.046	0.050	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	132322	1745	1	49	21.6	21.2	0.083	0.091	0.056	0.061	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	132322	1745	50	24	21.6	21.2	0.084	0.092	0.056	0.061	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	132322	1745	1	49	21.6	21.2	0.068	0.075	0.043	0.047	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	132322	1745	50	24	21.6	21.2	0.069	0.076	0.044	0.048	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	132322	1745	1	49	22.4	20.9	0.516	0.729	0.292	0.412	50
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	132322	1745	50	24	22.4	21.0	0.522	0.721	0.295	0.407	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	132322	1745	1	49	22.4	20.9	0.371	0.524	0.219	0.309	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	132322	1745	50	24	22.4	21.0	0.377	0.520	0.222	0.306	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	132322	1745	1	49	22.4	20.9	0.114	0.161	0.048	0.068	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	132322	1745	50	24	22.4	21.0	0.593	0.819	0.279	0.385	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	132072	1720	1	49	22.4	20.9	0.521	0.736	0.280	0.396	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	132072	1720	50	24	22.4	21.0	0.548	0.756	0.285	0.393	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	132322	1745	1	49	22.4	20.9	0.642	0.907	0.344	0.486	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	132322	1745	50	24	22.4	21.0	0.672	0.928	0.362	0.500	51
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	132322	1745	100	0	22.4	21.0	0.637	0.879	0.338	0.467	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	132572	1770	1	49	22.4	20.8	0.633	0.915	0.339	0.490	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	132572	1770	50	24	22.4	20.9	0.656	0.927	0.345	0.487	

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 4	Head	QPSK	Mode A	0	Left Cheek	132322	1745	1	49	19.1	18.4	0.602	0.707	0.282	0.331	
ANT 4	Head	QPSK	Mode A	0	Left Cheek	132322	1745	50	24	19.1	18.3	0.618	0.743	0.291	0.350	
ANT 4	Head	QPSK	Mode A	0	Left Tilt	132322	1745	1	49	19.1	18.4	0.178	0.209	0.093	0.109	
ANT 4	Head	QPSK	Mode A	0	Left Tilt	132322	1745	50	24	19.1	18.3	0.190	0.228	0.099	0.119	
ANT 4	Head	QPSK	Mode A	0	Right Cheek	132322	1745	1	49	19.1	18.4	0.183	0.215	0.105	0.123	
ANT 4	Head	QPSK	Mode A	0	Right Cheek	132322	1745	50	24	19.1	18.3	0.186	0.224	0.107	0.129	
ANT 4	Head	QPSK	Mode A	0	Right Tilt	132322	1745	1	49	19.1	18.4	0.104	0.122	0.058	0.068	
ANT 4	Head	QPSK	Mode A	0	Right Tilt	132322	1745	50	24	19.1	18.3	0.106	0.127	0.059	0.071	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Back	132322	1745	1	49	20.7	20.5	0.496	0.519	0.247	0.259	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Back	132322	1745	50	24	20.7	20.6	0.510	0.522	0.253	0.259	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Front	132322	1745	1	49	20.7	20.5	0.375	0.393	0.192	0.201	
ANT 4	Body & Hotspot	QPSK	Mode B	5	Front	132322	1745	50	24	20.7	20.6	0.383	0.392	0.196	0.201	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Top	132322	1745	1	49	20.7	20.5	0.160	0.168	0.075	0.079	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Top	132322	1745	50	24	20.7	20.6	0.164	0.168	0.078	0.080	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	132072	1720	1	49	20.7	20.7	0.731	0.731	0.360	0.360	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	132072	1720	50	24	20.7	20.5	0.744	0.779	0.365	0.382	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	132322	1745	1	49	20.7	20.5	0.845	0.885	0.407	0.426	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	132322	1745	50	24	20.7	20.6	0.836	0.855	0.403	0.412	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	132322	1745	100	0	20.7	20.5	0.839	0.879	0.404	0.423	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	132572	1770	1	49	20.7	20.5	0.776	0.813	0.378	0.396	
ANT 4	Hotspot	QPSK	Mode B	5	Edge Right	132572	1770	50	24	20.7	20.6	0.796	0.815	0.387	0.396	

### 10.19. LTE Band 71 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	QPSK	Mode A	0	Left Cheek	133297	680.5	1	49	25.7	25.0	0.134	0.157	0.107	0.126	
ANT 1	Head	QPSK	Mode A	0	Left Cheek	133297	680.5	50	24	24.7	24.2	0.113	0.127	0.090	0.101	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	133297	680.5	1	49	25.7	25.0	0.092	0.108	0.075	0.088	
ANT 1	Head	QPSK	Mode A	0	Left Tilt	133297	680.5	50	24	24.7	24.2	0.078	0.088	0.064	0.072	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	133297	680.5	1	49	25.7	25.0	0.130	0.153	0.082	0.096	
ANT 1	Head	QPSK	Mode A	0	Right Cheek	133297	680.5	50	24	24.7	24.2	0.111	0.125	0.070	0.079	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	133297	680.5	1	49	25.7	25.0	0.072	0.085	0.057	0.067	
ANT 1	Head	QPSK	Mode A	0	Right Tilt	133297	680.5	50	24	24.7	24.2	0.061	0.068	0.049	0.055	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	133297	680.5	1	49	25.7	25.2	0.544	<b>0.610</b>	0.293	0.329	52
ANT 1	Body & Hotspot	QPSK	Mode B	5	Back	133297	680.5	50	24	24.7	24.3	0.435	0.477	0.234	0.257	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	133297	680.5	1	49	25.7	25.2	0.302	0.339	0.185	0.208	
ANT 1	Body & Hotspot	QPSK	Mode B	5	Front	133297	680.5	50	24	24.7	24.3	0.238	0.261	0.145	0.159	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	133297	680.5	1	49	25.7	25.2	0.310	0.348	0.206	0.231	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Right	133297	680.5	50	24	24.7	24.3	0.237	0.260	0.157	0.172	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	133297	680.5	1	49	25.7	25.2	0.307	0.344	0.141	0.158	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Bottom	133297	680.5	50	24	24.7	24.3	0.239	0.262	0.109	0.120	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	133297	680.5	1	49	25.7	25.2	0.269	0.302	0.177	0.199	
ANT 1	Hotspot	QPSK	Mode B	5	Edge Left	133297	680.5	50	24	24.7	24.3	0.214	0.235	0.142	0.156	
ANT 2	Head	QPSK	Mode A	0	Left Cheek	133297	680.5	1	49	24.7	24.1	0.656	<b>0.753</b>	0.387	0.444	53
ANT 2	Head	QPSK	Mode A	0	Left Cheek	133297	680.5	50	24	23.7	23.2	0.444	0.498	0.271	0.304	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	133297	680.5	1	49	24.7	24.1	0.610	0.700	0.328	0.377	
ANT 2	Head	QPSK	Mode A	0	Left Tilt	133297	680.5	50	24	23.7	23.2	0.501	0.562	0.270	0.303	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	133297	680.5	1	49	24.7	24.1	0.578	0.664	0.347	0.398	
ANT 2	Head	QPSK	Mode A	0	Right Cheek	133297	680.5	50	24	23.7	23.2	0.477	0.535	0.289	0.324	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	133297	680.5	1	49	24.7	24.1	0.481	0.552	0.268	0.308	
ANT 2	Head	QPSK	Mode A	0	Right Tilt	133297	680.5	50	24	23.7	23.2	0.397	0.445	0.220	0.247	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	133297	680.5	1	49	24.7	24.1	0.379	0.435	0.224	0.257	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Back	133297	680.5	50	24	23.7	23.2	0.312	0.350	0.184	0.206	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	133297	680.5	1	49	24.7	24.1	0.228	0.262	0.142	0.163	
ANT 2	Body & Hotspot	QPSK	Mode B	5	Front	133297	680.5	50	24	23.7	23.2	0.192	0.215	0.119	0.134	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	133297	680.5	1	49	24.7	24.1	0.196	0.225	0.090	0.103	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Top	133297	680.5	50	24	23.7	23.2	0.160	0.180	0.073	0.082	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	133297	680.5	1	49	24.7	24.1	0.130	0.149	0.087	0.100	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Right	133297	680.5	50	24	23.7	23.2	0.108	0.121	0.072	0.081	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	133297	680.5	1	49	24.7	24.1	0.252	0.289	0.167	0.192	
ANT 2	Hotspot	QPSK	Mode B	5	Edge Left	133297	680.5	50	24	23.7	23.2	0.207	0.232	0.137	0.154	
ANT 3	Head	QPSK	Mode A	0	Left Cheek	133297	680.5	1	49	25.4	24.8	0.052	0.060	0.041	0.047	
ANT 3	Head	QPSK	Mode A	0	Left Cheek	133297	680.5	50	24	24.4	24.0	0.042	0.046	0.033	0.036	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	133297	680.5	1	49	25.4	24.8	0.031	0.036	0.025	0.029	
ANT 3	Head	QPSK	Mode A	0	Left Tilt	133297	680.5	50	24	24.4	24.0	0.024	0.026	0.020	0.022	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	133297	680.5	1	49	25.4	24.8	0.039	0.045	0.031	0.036	
ANT 3	Head	QPSK	Mode A	0	Right Cheek	133297	680.5	50	24	24.4	24.0	0.031	0.034	0.025	0.027	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	133297	680.5	1	49	25.4	24.8	0.021	0.024	0.017	0.020	
ANT 3	Head	QPSK	Mode A	0	Right Tilt	133297	680.5	50	24	24.4	24.0	0.016	0.018	0.013	0.014	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	133297	680.5	1	49	25.4	24.8	0.377	0.433	0.170	0.195	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Back	133297	680.5	50	24	24.4	24.0	0.311	0.341	0.140	0.154	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	133297	680.5	1	49	25.4	24.8	0.197	0.226	0.102	0.117	
ANT 3	Body & Hotspot	QPSK	Mode B	5	Front	133297	680.5	50	24	24.4	24.0	0.162	0.178	0.084	0.092	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	133297	680.5	1	49	25.4	24.8	0.255	0.293	0.111	0.127	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Bottom	133297	680.5	50	24	24.4	24.0	0.210	0.230	0.091	0.100	
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	133297	680.5	1	49	25.4	24.8	0.321	<b>0.369</b>	0.156	0.179	54
ANT 3	Hotspot	QPSK	Mode B	5	Edge Left	133297	680.5	50	24	24.4	24.0	0.259	0.284	0.126	0.138	

### 10.20. NR Band n5 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	167300	836.5	1	53	25.7	25.7	0.207	0.207	0.159	0.159	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	167300	836.5	50	28	25.7	25.6	0.197	0.202	0.155	0.159	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	167300	836.5	1	53	25.7	25.7	0.116	0.116	0.094	0.094	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	167300	836.5	50	28	25.7	25.6	0.129	0.132	0.104	0.106	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	167300	836.5	1	53	25.7	25.7	0.219	0.219	0.171	0.171	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	167300	836.5	50	28	25.7	25.6	0.239	0.245	0.185	0.189	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	167300	836.5	1	53	25.7	25.7	0.136	0.136	0.109	0.109	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	167300	836.5	50	28	25.7	25.6	0.128	0.131	0.102	0.104	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	167300	836.5	1	53	25.7	25.7	0.568	0.568	0.312	0.312	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	167300	836.5	50	28	25.7	25.7	0.463	0.463	0.261	0.261	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	167300	836.5	1	53	25.7	25.7	0.418	0.418	0.237	0.237	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	167300	836.5	50	28	25.7	25.7	0.395	0.395	0.223	0.223	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	167300	836.5	1	53	25.7	25.7	0.602	0.602	0.399	0.399	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	167300	836.5	50	28	25.7	25.7	0.628	<b>0.628</b>	0.417	0.417	55
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	167300	836.5	1	53	25.7	25.7	0.401	0.401	0.178	0.178	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	167300	836.5	50	28	25.7	25.7	0.360	0.360	0.161	0.161	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	167300	836.5	1	53	25.7	25.7	0.213	0.213	0.141	0.141	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	167300	836.5	50	28	25.7	25.7	0.213	0.213	0.141	0.141	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	167300	836.5	1	53	23.8	23.3	0.451	0.506	0.330	0.370	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	167300	836.5	50	28	23.8	23.0	0.451	0.542	0.315	0.379	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	167300	836.5	1	53	23.8	23.3	0.321	0.360	0.200	0.224	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	167300	836.5	50	28	23.8	23.0	0.317	0.381	0.196	0.236	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	167300	836.5	1	53	23.8	23.3	0.510	0.572	0.372	0.417	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	167300	836.5	50	28	23.8	23.0	0.582	<b>0.700</b>	0.417	0.501	56
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	167300	836.5	1	53	23.8	23.3	0.417	0.468	0.239	0.268	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	167300	836.5	50	28	23.8	23.0	0.419	0.504	0.237	0.285	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	167300	836.5	1	53	24.7	24.4	0.442	0.474	0.291	0.312	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	167300	836.5	50	28	24.7	23.8	0.436	0.536	0.288	0.354	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	167300	836.5	1	53	24.7	24.4	0.282	0.302	0.196	0.210	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	167300	836.5	50	28	24.7	23.8	0.305	0.375	0.209	0.257	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	167300	836.5	1	53	24.7	24.4	0.129	0.138	0.067	0.072	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	167300	836.5	50	28	24.7	23.8	0.154	0.189	0.060	0.074	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	167300	836.5	1	53	24.7	24.4	0.192	0.206	0.126	0.135	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	167300	836.5	50	28	24.7	23.8	0.170	0.209	0.110	0.135	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	167300	836.5	1	53	24.7	24.4	0.334	0.358	0.218	0.234	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	167300	836.5	50	28	24.7	23.8	0.294	0.362	0.191	0.235	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	167300	836.5	1	53	24.5	24.1	0.106	0.116	0.081	0.089	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	167300	836.5	50	28	24.5	24.3	0.111	0.116	0.085	0.089	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	167300	836.5	1	53	24.5	24.1	0.043	0.047	0.035	0.038	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	167300	836.5	50	28	24.5	24.3	0.056	0.059	0.045	0.047	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	167300	836.5	1	53	24.5	24.1	0.081	0.089	0.064	0.070	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	167300	836.5	50	28	24.5	24.3	0.095	0.099	0.075	0.079	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	167300	836.5	1	53	24.5	24.1	0.060	0.066	0.047	0.052	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	167300	836.5	50	28	24.5	24.3	0.054	0.057	0.043	0.045	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	167300	836.5	1	53	25.4	25.1	0.649	0.695	0.337	0.361	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	167300	836.5	50	28	25.4	24.5	0.678	<b>0.834</b>	0.350	0.431	57
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	167300	836.5	1	53	25.4	25.1	0.249	0.267	0.151	0.162	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	167300	836.5	50	28	25.4	24.5	0.321	0.395	0.188	0.231	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	167300	836.5	1	53	25.4	25.1	0.355	0.380	0.145	0.155	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	167300	836.5	50	28	25.4	24.5	0.332	0.408	0.143	0.176	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	167300	836.5	1	53	25.4	25.1	0.335	0.359	0.220	0.236	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	167300	836.5	50	28	25.4	24.5	0.421	0.518	0.185	0.228	

### 10.21. NR Band n7 (40MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	507000	2535	1	108	24.0	23.6	0.159	0.174	0.088	0.096	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	507000	2535	108	54	24.0	23.5	0.146	0.164	0.082	0.092	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	507000	2535	1	108	24.0	23.6	0.160	0.175	0.084	0.092	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	507000	2535	108	54	24.0	23.5	0.194	0.218	0.100	0.112	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	507000	2535	1	108	24.0	23.6	0.341	0.374	0.184	0.202	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	507000	2535	108	54	24.0	23.5	0.341	0.383	0.184	0.206	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	507000	2535	1	108	24.0	23.6	0.123	0.136	0.068	0.075	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	507000	2535	108	54	24.0	23.5	0.123	0.138	0.069	0.077	
ANT 1	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	507000	2535	1	108	20.3	19.8	0.613	0.688	0.281	0.315	
ANT 1	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	507000	2535	108	54	20.3	19.7	0.650	0.746	0.292	0.335	
ANT 1	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	507000	2535	1	108	20.3	19.8	0.552	0.619	0.268	0.301	
ANT 1	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	507000	2535	108	54	20.3	19.7	0.595	0.683	0.286	0.328	
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Right	507000	2535	1	108	20.3	19.8	0.616	0.691	0.273	0.306	
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Right	507000	2535	108	54	20.3	19.7	0.560	0.643	0.250	0.287	
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Bottom	507000	2535	1	108	20.3	19.8	0.446	0.500	0.189	0.212	
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Bottom	507000	2535	108	54	20.3	19.7	0.387	0.444	0.167	0.192	
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Left	507000	2535	1	108	20.3	19.8	0.013	0.015	0.006	0.007	
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Left	507000	2535	108	54	20.3	19.7	0.013	0.015	0.006	0.007	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	507000	2535	1	108	19.1	18.9	0.793	0.830	0.301	0.315	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	507000	2535	108	54	19.1	18.7	0.782	0.857	0.301	0.330	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	507000	2535	1	108	19.1	18.9	0.893	0.935	0.340	0.356	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	507000	2535	108	54	19.1	18.7	0.859	<b>0.942</b>	0.325	0.356	58
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	507000	2535	1	108	19.1	18.9	0.512	0.536	0.223	0.234	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	507000	2535	108	54	19.1	18.7	0.477	0.523	0.218	0.239	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	507000	2535	1	108	19.1	18.9	0.553	0.579	0.227	0.238	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	507000	2535	108	54	19.1	18.7	0.539	0.591	0.223	0.245	
ANT 2	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	507000	2535	1	108	17.5	16.7	0.730	0.878	0.295	0.355	
ANT 2	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	507000	2535	108	54	17.5	16.4	0.723	<b>0.931</b>	0.293	0.377	59
ANT 2	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	507000	2535	1	108	17.5	16.7	0.259	0.311	0.108	0.130	
ANT 2	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	507000	2535	108	54	17.5	16.4	0.234	0.301	0.100	0.129	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Top	507000	2535	1	108	17.5	16.7	0.490	0.589	0.182	0.219	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Top	507000	2535	108	54	17.5	16.4	0.492	0.634	0.181	0.233	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Right	507000	2535	1	108	17.5	16.7	0.070	0.084	0.032	0.038	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Right	507000	2535	108	54	17.5	16.4	0.066	0.085	0.029	0.037	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Left	507000	2535	1	108	17.5	16.7	0.257	0.309	0.120	0.144	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Left	507000	2535	108	54	17.5	16.4	0.257	0.331	0.120	0.155	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	507000	2535	1	108	22.5	22.5	0.294	0.294	0.156	0.156	
ANT 3	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	507000	2535	108	54	22.5	22.5	0.330	0.330	0.173	0.173	
ANT 3	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	507000	2535	1	108	22.5	22.5	0.096	0.096	0.050	0.050	
ANT 3	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	507000	2535	108	54	22.5	22.5	0.113	0.113	0.059	0.059	
ANT 3	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	507000	2535	1	108	22.5	22.5	0.144	0.144	0.078	0.078	
ANT 3	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	507000	2535	108	54	22.5	22.5	0.136	0.136	0.074	0.074	
ANT 3	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	507000	2535	1	108	22.5	22.5	0.161	0.161	0.083	0.083	
ANT 3	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	507000	2535	108	54	22.5	22.5	0.160	0.160	0.082	0.082	
ANT 3	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	507000	2535	1	108	19.7	19.5	0.692	0.725	0.318	0.333	
ANT 3	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	507000	2535	108	54	19.7	19.5	0.642	0.672	0.296	0.310	
ANT 3	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	507000	2535	1	108	19.7	19.5	0.479	0.502	0.224	0.235	
ANT 3	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	507000	2535	108	54	19.7	19.5	0.476	0.498	0.218	0.228	
ANT 3	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Bottom	507000	2535	1	108	19.7	19.5	0.229	0.240	0.112	0.117	
ANT 3	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Bottom	507000	2535	108	54	19.7	19.5	0.213	0.223	0.102	0.107	
ANT 3	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Left	507000	2535	1	108	19.7	19.5	0.729	<b>0.763</b>	0.310	0.325	60
ANT 3	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Left	507000	2535	108	54	19.7	19.5	0.728	0.762	0.309	0.324	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 4	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	507000	2535	1	108	18.9	18.3	0.686	0.788	0.274	0.315	
ANT 4	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	507000	2535	108	54	18.9	18.5	0.687	0.753	0.274	0.300	
ANT 4	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	507000	2535	1	108	18.9	18.3	0.132	0.152	0.065	0.075	
ANT 4	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	507000	2535	108	54	18.9	18.5	0.137	0.150	0.068	0.075	
ANT 4	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	507000	2535	1	108	18.9	18.3	0.164	0.188	0.089	0.102	
ANT 4	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	507000	2535	108	54	18.9	18.5	0.171	0.187	0.091	0.100	
ANT 4	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	507000	2535	1	108	18.9	18.3	0.074	0.085	0.036	0.041	
ANT 4	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	507000	2535	108	54	18.9	18.5	0.072	0.079	0.036	0.039	
ANT 4	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	507000	2535	1	108	19.0	19.0	0.385	0.385	0.164	0.164	
ANT 4	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	507000	2535	108	54	19.0	18.5	0.414	0.465	0.182	0.204	
ANT 4	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	507000	2535	1	108	19.0	19.0	0.273	0.273	0.120	0.120	
ANT 4	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	507000	2535	108	54	19.0	18.5	0.277	0.311	0.122	0.137	
ANT 4	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Top	507000	2535	1	108	19.0	19.0	0.059	0.059	0.026	0.026	
ANT 4	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Top	507000	2535	108	54	19.0	18.5	0.055	0.062	0.024	0.027	
ANT 4	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Right	507000	2535	1	108	19.0	19.0	0.634	0.634	0.267	0.267	
ANT 4	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Right	507000	2535	108	54	19.0	18.5	0.559	0.627	0.241	0.270	



### 10.22. NR Band n12 (15MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	141500	707.5	1	39	25.7	25.7	0.157	0.157	0.124	0.124	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	141500	707.5	36	22	25.7	25.2	0.158	0.177	0.125	0.140	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	141500	707.5	1	39	25.7	25.7	0.099	0.099	0.082	0.082	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	141500	707.5	36	22	25.7	25.2	0.091	0.102	0.075	0.084	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	141500	707.5	1	39	25.7	25.7	0.214	0.214	0.166	0.166	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	141500	707.5	36	22	25.7	25.2	0.200	0.224	0.158	0.177	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	141500	707.5	1	39	25.7	25.7	0.133	0.133	0.107	0.107	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	141500	707.5	36	22	25.7	25.2	0.128	0.144	0.103	0.116	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	141500	707.5	1	39	25.7	25.2	0.591	0.663	0.320	0.359	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	141500	707.5	36	22	25.7	24.6	0.536	<b>0.691</b>	0.296	0.381	61
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	141500	707.5	1	39	25.7	25.2	0.286	0.321	0.172	0.193	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	141500	707.5	36	22	25.7	24.6	0.301	0.388	0.180	0.232	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	141500	707.5	1	39	25.7	25.2	0.703	0.789	0.469	0.526	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	141500	707.5	36	22	25.7	24.6	0.662	<b>0.853</b>	0.442	0.569	62
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	141500	707.5	1	39	25.7	25.2	0.284	0.319	0.127	0.142	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	141500	707.5	36	22	25.7	24.6	0.304	0.382	0.135	0.174	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	141500	707.5	1	39	25.7	25.2	0.315	0.353	0.211	0.237	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	141500	707.5	36	22	25.7	24.6	0.297	0.383	0.199	0.256	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	141500	707.5	1	39	24.7	24.0	0.534	0.627	0.363	0.426	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	141500	707.5	36	22	24.7	23.8	0.521	0.641	0.354	0.436	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	141500	707.5	1	39	24.7	24.0	0.495	0.582	0.291	0.342	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	141500	707.5	36	22	24.7	23.8	0.492	0.605	0.290	0.357	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	141500	707.5	1	39	24.7	24.0	0.634	<b>0.745</b>	0.428	0.503	63
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	141500	707.5	36	22	24.7	23.8	0.581	0.715	0.398	0.490	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	141500	707.5	1	39	24.7	24.0	0.577	0.678	0.330	0.388	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	141500	707.5	36	22	24.7	23.8	0.562	0.691	0.325	0.400	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	141500	707.5	1	39	24.7	24.5	0.452	0.473	0.285	0.298	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	141500	707.5	36	22	24.7	24.4	0.438	0.469	0.268	0.287	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	141500	707.5	1	39	24.7	24.5	0.302	0.316	0.212	0.222	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	141500	707.5	36	22	24.7	24.4	0.289	0.310	0.205	0.220	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	141500	707.5	1	39	24.7	24.5	0.203	0.213	0.099	0.104	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	141500	707.5	36	22	24.7	24.4	0.201	0.215	0.091	0.098	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	141500	707.5	1	39	24.7	24.5	0.253	0.265	0.168	0.176	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	141500	707.5	36	22	24.7	24.4	0.224	0.240	0.151	0.162	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	141500	707.5	1	39	24.7	24.5	0.425	0.445	0.250	0.262	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	141500	707.5	36	22	24.7	24.4	0.360	0.386	0.240	0.257	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	141500	707.5	1	39	25.4	24.5	0.087	0.107	0.068	0.084	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	141500	707.5	36	22	25.4	24.4	0.084	0.106	0.067	0.084	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	141500	707.5	1	39	25.4	24.5	0.043	0.053	0.035	0.043	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	141500	707.5	36	22	25.4	24.4	0.044	0.055	0.035	0.044	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	141500	707.5	1	39	25.4	24.5	0.066	0.081	0.053	0.065	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	141500	707.5	36	22	25.4	24.4	0.069	0.087	0.054	0.068	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	141500	707.5	1	39	25.4	24.5	0.030	0.037	0.017	0.021	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	141500	707.5	36	22	25.4	24.4	0.027	0.034	0.016	0.020	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	141500	707.5	1	39	25.4	25.1	0.486	0.521	0.245	0.263	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	141500	707.5	36	22	25.4	25.0	0.362	0.397	0.191	0.209	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	141500	707.5	1	39	25.4	25.1	0.317	0.340	0.167	0.179	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	141500	707.5	36	22	25.4	25.0	0.315	0.345	0.167	0.183	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	141500	707.5	1	39	25.4	25.1	0.271	0.290	0.108	0.116	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	141500	707.5	36	22	25.4	25.0	0.281	0.308	0.106	0.116	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	141500	707.5	1	39	25.4	25.1	0.429	0.460	0.218	0.234	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	141500	707.5	36	22	25.4	25.0	0.396	0.434	0.256	0.281	

### 10.23. NR Band n14 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	158600	793	1	26	25.7	24.7	0.185	0.233	0.147	0.185	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	158600	793	25	14	25.7	24.6	0.178	0.229	0.140	0.180	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	158600	793	1	26	25.7	24.7	0.105	0.132	0.084	0.106	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	158600	793	25	14	25.7	24.6	0.128	0.165	0.103	0.133	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	158600	793	1	26	25.7	24.7	0.233	0.293	0.182	0.229	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	158600	793	25	14	25.7	24.6	0.235	0.303	0.184	0.237	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	158600	793	1	26	25.7	24.7	0.138	0.174	0.112	0.141	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	158600	793	25	14	25.7	24.6	0.133	0.171	0.109	0.140	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	158600	793	1	26	25.7	24.6	0.587	0.756	0.316	0.407	64
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	158600	793	25	14	25.7	24.6	0.420	0.541	0.143	0.184	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	158600	793	1	26	25.7	24.6	0.365	0.470	0.221	0.285	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	158600	793	25	14	25.7	24.6	0.358	0.461	0.212	0.273	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	158600	793	1	26	25.7	24.6	0.594	0.765	0.391	0.504	65
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	158600	793	25	14	25.7	24.6	0.531	0.684	0.350	0.451	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	158600	793	1	26	25.7	24.6	0.331	0.426	0.147	0.189	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	158600	793	25	14	25.7	24.6	0.312	0.402	0.139	0.179	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	158600	793	1	26	25.7	24.6	0.237	0.305	0.156	0.201	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	158600	793	25	14	25.7	24.6	0.292	0.376	0.193	0.249	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	158600	793	1	26	24.7	24.1	0.478	0.549	0.347	0.398	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	158600	793	25	14	24.7	23.9	0.527	0.634	0.374	0.450	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	158600	793	1	26	24.7	24.1	0.341	0.392	0.211	0.242	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	158600	793	25	14	24.7	23.9	0.424	0.510	0.252	0.303	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	158600	793	1	26	24.7	24.1	0.662	0.760	0.440	0.505	66
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	158600	793	25	14	24.7	23.9	0.592	0.712	0.407	0.489	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	158600	793	1	26	24.7	24.1	0.431	0.495	0.253	0.290	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	158600	793	25	14	24.7	23.9	0.437	0.525	0.253	0.304	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	158600	793	1	26	24.7	24.5	0.420	0.440	0.284	0.297	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	158600	793	25	14	24.7	24.4	0.424	0.454	0.291	0.312	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	158600	793	1	26	24.7	24.5	0.250	0.262	0.178	0.186	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	158600	793	25	14	24.7	24.4	0.270	0.289	0.192	0.206	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	158600	793	1	26	24.7	24.5	0.199	0.208	0.100	0.105	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	158600	793	25	14	24.7	24.4	0.193	0.207	0.097	0.104	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	158600	793	1	26	24.7	24.5	0.263	0.275	0.175	0.183	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	158600	793	25	14	24.7	24.4	0.265	0.284	0.176	0.189	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	158600	793	1	26	24.7	24.5	0.366	0.383	0.241	0.252	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	158600	793	25	14	24.7	24.4	0.365	0.391	0.241	0.258	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	158600	793	1	26	25.4	25.1	0.083	0.089	0.065	0.070	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	158600	793	25	14	25.4	25.0	0.080	0.088	0.064	0.070	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	158600	793	1	26	25.4	25.1	0.037	0.040	0.030	0.032	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	158600	793	25	14	25.4	25.0	0.036	0.039	0.030	0.033	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	158600	793	1	26	25.4	25.1	0.091	0.098	0.072	0.077	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	158600	793	25	14	25.4	25.0	0.089	0.098	0.071	0.078	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	158600	793	1	26	25.4	25.1	0.045	0.048	0.037	0.040	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	158600	793	25	14	25.4	25.0	0.043	0.047	0.036	0.039	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	158600	793	1	26	25.4	25.1	0.360	0.386	0.189	0.203	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	158600	793	25	14	25.4	25.0	0.375	0.411	0.194	0.213	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	158600	793	1	26	25.4	25.1	0.238	0.255	0.139	0.149	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	158600	793	25	14	25.4	25.0	0.238	0.261	0.140	0.154	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	158600	793	1	26	25.4	25.1	0.190	0.204	0.079	0.085	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	158600	793	25	14	25.4	25.0	0.199	0.218	0.081	0.089	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	158600	793	1	26	25.4	25.1	0.247	0.265	0.114	0.122	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	158600	793	25	14	25.4	25.0	0.260	0.285	0.117	0.128	



### 10.24. NR Band n25 (40MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	376500	1882.5	1	108	24.5	24.4	0.132	0.135	0.086	0.088	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	376500	1882.5	108	54	24.5	24.4	0.140	0.143	0.091	0.093	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	376500	1882.5	1	108	24.5	24.4	0.068	0.070	0.045	0.046	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	376500	1882.5	108	54	24.5	24.4	0.065	0.067	0.043	0.044	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	376500	1882.5	1	108	24.5	24.4	0.280	0.287	0.172	0.176	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	376500	1882.5	108	54	24.5	24.4	0.345	0.353	0.208	0.213	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	376500	1882.5	1	108	24.5	24.4	0.092	0.094	0.058	0.059	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	376500	1882.5	108	54	24.5	24.4	0.087	0.089	0.056	0.057	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	376500	1882.5	1	108	19.4	18.7	0.388	0.456	0.205	0.241	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	376500	1882.5	108	54	19.4	18.6	0.365	0.439	0.194	0.233	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	376500	1882.5	1	108	19.4	18.7	0.268	0.315	0.143	0.168	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	376500	1882.5	108	54	19.4	18.6	0.259	0.311	0.140	0.168	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	376500	1882.5	1	108	19.4	18.7	0.243	0.286	0.118	0.139	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	376500	1882.5	108	54	19.4	18.6	0.275	0.331	0.131	0.157	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	376500	1882.5	1	108	19.4	18.7	0.644	0.757	0.300	0.352	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	376500	1882.5	108	54	19.4	18.6	0.634	0.762	0.297	0.357	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	376500	1882.5	1	108	19.4	18.7	0.027	0.032	0.015	0.018	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	376500	1882.5	108	54	19.4	18.6	0.026	0.031	0.014	0.017	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	376500	1882.5	1	108	20.3	19.9	0.299	0.328	0.151	0.166	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	376500	1882.5	108	54	20.3	19.7	0.308	0.354	0.159	0.183	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	376500	1882.5	1	108	20.3	19.9	0.349	0.383	0.174	0.191	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	376500	1882.5	108	54	20.3	19.7	0.346	0.397	0.172	0.197	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	376500	1882.5	1	108	20.3	19.9	0.678	0.743	0.355	0.389	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	376500	1882.5	108	54	20.3	19.7	0.660	0.758	0.346	0.397	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	376500	1882.5	1	108	20.3	19.9	0.688	0.754	0.361	0.396	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	376500	1882.5	108	54	20.3	19.7	0.663	0.761	0.327	0.375	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	376500	1882.5	1	108	20.1	19.7	0.592	0.649	0.277	0.304	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	376500	1882.5	108	54	20.1	19.6	0.553	0.620	0.260	0.292	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	376500	1882.5	1	108	20.1	19.7	0.418	0.458	0.203	0.223	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	376500	1882.5	108	54	20.1	19.6	0.449	0.504	0.218	0.245	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	376500	1882.5	1	108	20.1	19.7	0.728	0.798	0.336	0.368	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	376500	1882.5	108	54	20.1	19.6	0.731	0.820	0.336	0.377	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	376500	1882.5	1	108	20.1	19.7	0.014	0.015	0.007	0.008	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	376500	1882.5	108	54	20.1	19.6	0.014	0.016	0.007	0.008	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	376500	1882.5	1	108	20.1	19.7	0.408	0.447	0.209	0.229	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	376500	1882.5	108	54	20.1	19.6	0.387	0.434	0.199	0.223	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	376500	1882.5	1	108	21.7	21.6	0.158	0.162	0.099	0.101	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	376500	1882.5	108	54	21.7	21.4	0.156	0.167	0.098	0.105	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	376500	1882.5	1	108	21.7	21.6	0.080	0.082	0.051	0.052	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	376500	1882.5	108	54	21.7	21.4	0.081	0.087	0.051	0.055	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	376500	1882.5	1	108	21.7	21.6	0.103	0.105	0.069	0.071	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	376500	1882.5	108	54	21.7	21.4	0.097	0.104	0.063	0.068	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	376500	1882.5	1	108	21.7	21.6	0.094	0.096	0.056	0.057	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	376500	1882.5	108	54	21.7	21.4	0.091	0.098	0.054	0.058	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	376500	1882.5	1	108	21.8	21.2	0.452	0.519	0.255	0.293	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	376500	1882.5	108	54	21.8	21.1	0.502	0.590	0.285	0.335	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	376500	1882.5	1	108	21.8	21.2	0.599	0.688	0.318	0.365	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	376500	1882.5	108	54	21.8	21.1	0.476	0.559	0.254	0.298	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	376500	1882.5	1	108	21.8	21.2	0.149	0.171	0.076	0.087	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	376500	1882.5	108	54	21.8	21.1	0.150	0.176	0.076	0.089	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	376500	1882.5	1	108	21.8	21.2	0.648	0.744	0.336	0.386	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	376500	1882.5	108	54	21.8	21.1	0.678	0.797	0.347	0.408	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	376500	1882.5	1	108	18.3	17.8	0.729	<b>0.818</b>	0.321	0.360	67
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	376500	1882.5	108	54	18.3	17.8	0.682	0.765	0.299	0.335	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	376500	1882.5	1	108	18.3	17.8	0.210	0.236	0.109	0.122	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	376500	1882.5	108	54	18.3	17.8	0.206	0.231	0.106	0.119	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	376500	1882.5	1	108	18.3	17.8	0.169	0.190	0.092	0.103	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	376500	1882.5	108	54	18.3	17.8	0.171	0.192	0.094	0.105	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	376500	1882.5	1	108	18.3	17.8	0.094	0.105	0.051	0.057	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	376500	1882.5	108	54	18.3	17.8	0.100	0.112	0.055	0.062	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	376500	1882.5	1	108	20.0	19.2	0.508	0.611	0.224	0.269	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	376500	1882.5	108	54	20.0	19.1	0.585	<b>0.720</b>	0.271	0.333	68
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	376500	1882.5	1	108	20.0	19.2	0.388	0.466	0.178	0.214	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	376500	1882.5	108	54	20.0	19.1	0.334	0.411	0.157	0.193	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	376500	1882.5	1	108	20.0	19.2	0.124	0.149	0.062	0.075	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	376500	1882.5	108	54	20.0	19.1	0.130	0.160	0.068	0.084	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	376500	1882.5	1	108	20.0	19.2	0.756	<b>0.909</b>	0.341	0.410	69
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	376500	1882.5	108	54	20.0	19.1	0.705	0.867	0.323	0.397	

### 10.25. NR Band n26 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	166300	831.5	1	53	25.7	24.8	0.206	0.253	0.160	0.197	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	166300	831.5	50	28	25.7	24.7	0.210	0.264	0.159	0.200	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	166300	831.5	1	53	25.7	24.8	0.134	0.165	0.105	0.129	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	166300	831.5	50	28	25.7	24.7	0.173	0.218	0.141	0.178	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	166300	831.5	1	53	25.7	24.8	0.233	0.287	0.186	0.229	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	166300	831.5	50	28	25.7	24.7	0.230	0.290	0.184	0.232	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	166300	831.5	1	53	25.7	24.8	0.189	0.233	0.150	0.185	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	166300	831.5	50	28	25.7	24.7	0.105	0.132	0.085	0.107	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	166300	831.5	1	53	25.7	25.3	0.691	<b>0.758</b>	0.377	0.413	70
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	166300	831.5	50	28	25.7	25.3	0.683	0.749	0.374	0.410	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	166300	831.5	1	53	25.7	25.3	0.411	0.451	0.239	0.262	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	166300	831.5	50	28	25.7	25.3	0.503	0.552	0.218	0.239	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	166300	831.5	1	53	25.7	25.3	0.815	0.894	0.541	0.593	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	166300	831.5	50	28	25.7	25.3	0.855	<b>0.937</b>	0.564	0.618	71
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	166300	831.5	1	53	25.7	25.3	0.579	0.635	0.244	0.268	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	166300	831.5	50	28	25.7	25.3	0.503	0.552	0.218	0.239	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	166300	831.5	1	53	25.7	25.3	0.296	0.325	0.195	0.214	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	166300	831.5	50	28	25.7	25.3	0.298	0.327	0.197	0.216	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	166300	831.5	1	53	23.8	23.1	0.472	0.555	0.327	0.384	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	166300	831.5	50	28	23.8	23.0	0.543	0.653	0.395	0.475	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	166300	831.5	1	53	23.8	23.1	0.380	0.446	0.227	0.267	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	166300	831.5	50	28	23.8	23.0	0.371	0.446	0.208	0.250	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	166300	831.5	1	53	23.8	23.1	0.653	0.767	0.374	0.439	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	166300	831.5	50	28	23.8	23.0	0.739	<b>0.888</b>	0.463	0.557	72
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	166300	831.5	1	53	23.8	23.1	0.477	0.560	0.267	0.314	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	166300	831.5	50	28	23.8	23.0	0.448	0.539	0.255	0.307	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	166300	831.5	1	53	24.7	24.3	0.501	0.549	0.326	0.357	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	166300	831.5	50	28	24.7	24.2	0.472	0.530	0.309	0.347	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	166300	831.5	1	53	24.7	24.3	0.277	0.304	0.192	0.211	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	166300	831.5	50	28	24.7	24.2	0.286	0.321	0.196	0.220	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	166300	831.5	1	53	24.7	24.3	0.167	0.183	0.082	0.090	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	166300	831.5	50	28	24.7	24.2	0.161	0.181	0.079	0.089	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	166300	831.5	1	53	24.7	24.3	0.161	0.177	0.106	0.116	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	166300	831.5	50	28	24.7	24.2	0.163	0.183	0.107	0.120	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	166300	831.5	1	53	24.7	24.3	0.291	0.319	0.190	0.208	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	166300	831.5	50	28	24.7	24.2	0.279	0.313	0.182	0.204	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	166300	831.5	1	53	24.5	24.0	0.090	0.101	0.068	0.076	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	166300	831.5	50	28	24.5	23.9	0.090	0.103	0.071	0.082	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	166300	831.5	1	53	24.5	24.0	0.047	0.053	0.038	0.043	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	166300	831.5	50	28	24.5	23.9	0.043	0.049	0.035	0.040	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	166300	831.5	1	53	24.5	24.0	0.086	0.096	0.068	0.076	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	166300	831.5	50	28	24.5	23.9	0.086	0.099	0.068	0.078	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	166300	831.5	1	53	24.5	24.0	0.055	0.062	0.044	0.049	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	166300	831.5	50	28	24.5	23.9	0.057	0.065	0.045	0.052	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	166300	831.5	1	53	25.4	24.9	0.620	0.696	0.316	0.355	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	166300	831.5	50	28	25.4	24.8	0.563	0.646	0.288	0.331	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	166300	831.5	1	53	25.4	24.9	0.295	0.331	0.170	0.191	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	166300	831.5	50	28	25.4	24.8	0.282	0.324	0.163	0.187	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	166300	831.5	1	53	25.4	24.9	0.285	0.320	0.120	0.135	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	166300	831.5	50	28	25.4	24.8	0.266	0.305	0.114	0.131	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	166300	831.5	1	53	25.4	24.9	0.377	0.423	0.246	0.276	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	166300	831.5	50	28	25.4	24.8	0.339	0.389	0.222	0.255	

### 10.26. NR Band n30 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	462000	2310	1	26	22.9	21.9	0.132	0.166	0.078	0.098	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	462000	2310	25	14	22.9	21.9	0.127	0.160	0.075	0.094	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	462000	2310	1	26	22.9	21.9	0.095	0.120	0.053	0.067	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	462000	2310	25	14	22.9	21.9	0.091	0.115	0.050	0.063	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	462000	2310	1	26	22.9	21.9	0.169	0.213	0.095	0.120	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	462000	2310	25	14	22.9	21.9	0.158	0.199	0.090	0.113	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	462000	2310	1	26	22.9	21.9	0.077	0.097	0.043	0.054	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	462000	2310	25	14	22.9	21.9	0.075	0.094	0.042	0.053	
ANT 1	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	462000	2310	1	26	22.1	21.1	0.478	0.602	0.237	0.298	
ANT 1	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	462000	2310	25	14	22.1	21.1	0.470	0.592	0.233	0.293	
ANT 1	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	462000	2310	1	26	22.1	21.1	0.425	0.535	0.194	0.244	
ANT 1	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	462000	2310	25	14	22.1	21.1	0.422	0.531	0.194	0.244	
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Right	462000	2310	1	26	22.1	21.1	0.740	0.932	0.317	0.399	
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Right	462000	2310	25	14	22.1	21.1	0.748	<b>0.942</b>	0.315	0.397	73
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Bottom	462000	2310	1	26	22.1	21.1	0.166	0.209	0.076	0.096	
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Bottom	462000	2310	25	14	22.1	21.1	0.158	0.199	0.073	0.092	
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Left	462000	2310	1	26	22.1	21.1	0.031	0.039	0.015	0.019	
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Left	462000	2310	25	14	22.1	21.1	0.029	0.037	0.014	0.018	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	462000	2310	1	26	21.1	21.0	0.364	0.372	0.217	0.222	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	462000	2310	25	14	21.1	20.8	0.364	0.390	0.215	0.230	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	462000	2310	1	26	21.1	21.0	0.304	0.311	0.148	0.151	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	462000	2310	25	14	21.1	20.8	0.300	0.321	0.146	0.156	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	462000	2310	1	26	21.1	21.0	0.898	0.919	0.502	0.514	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	462000	2310	25	14	21.1	20.8	0.871	<b>0.933</b>	0.499	0.535	74
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	462000	2310	1	26	21.1	21.0	0.517	0.529	0.273	0.279	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	462000	2310	25	14	21.1	20.8	0.585	0.627	0.283	0.303	
ANT 2	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	462000	2310	1	26	20.4	19.6	0.643	0.773	0.291	0.350	
ANT 2	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	462000	2310	25	14	20.4	19.4	0.710	<b>0.894</b>	0.309	0.389	75
ANT 2	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	462000	2310	1	26	20.4	19.6	0.381	0.458	0.222	0.267	
ANT 2	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	462000	2310	25	14	20.4	19.4	0.397	0.500	0.229	0.288	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Top	462000	2310	1	26	20.4	19.6	0.261	0.314	0.117	0.141	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Top	462000	2310	25	14	20.4	19.4	0.264	0.332	0.118	0.149	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Right	462000	2310	1	26	20.4	19.6	0.023	0.028	0.011	0.013	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Right	462000	2310	25	14	20.4	19.4	0.025	0.031	0.010	0.013	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Left	462000	2310	1	26	20.4	19.6	0.540	0.649	0.258	0.310	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Left	462000	2310	25	14	20.4	19.4	0.541	0.681	0.259	0.326	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	462000	2310	1	26	22.0	21.3	0.148	0.174	0.086	0.101	
ANT 3	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	462000	2310	25	14	22.0	21.3	0.116	0.136	0.068	0.080	
ANT 3	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	462000	2310	1	26	22.0	21.3	0.064	0.075	0.034	0.040	
ANT 3	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	462000	2310	25	14	22.0	21.3	0.062	0.073	0.033	0.039	
ANT 3	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	462000	2310	1	26	22.0	21.3	0.085	0.100	0.049	0.058	
ANT 3	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	462000	2310	25	14	22.0	21.3	0.077	0.090	0.044	0.052	
ANT 3	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	462000	2310	1	26	22.0	21.3	0.071	0.083	0.039	0.046	
ANT 3	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	462000	2310	25	14	22.0	21.3	0.068	0.080	0.038	0.045	
ANT 3	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	462000	2310	1	26	21.6	20.6	0.636	0.801	0.300	0.378	
ANT 3	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	462000	2310	25	14	21.6	20.7	0.546	0.672	0.262	0.322	
ANT 3	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	462000	2310	1	26	21.6	20.6	0.459	0.578	0.238	0.300	
ANT 3	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	462000	2310	25	14	21.6	20.7	0.456	0.561	0.237	0.292	
ANT 3	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Bottom	462000	2310	1	26	21.6	20.6	0.388	0.488	0.192	0.242	
ANT 3	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Bottom	462000	2310	25	14	21.6	20.7	0.346	0.426	0.172	0.212	
ANT 3	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Left	462000	2310	1	26	21.6	20.6	0.391	0.482	0.188	0.237	
ANT 3	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Left	462000	2310	25	14	21.6	20.7	0.375	0.461	0.181	0.223	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 4	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	462000	2310	1	26	18.2	16.7	0.472	0.667	0.210	0.297	
ANT 4	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	462000	2310	25	14	18.2	16.7	0.508	0.718	0.224	0.316	
ANT 4	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	462000	2310	1	26	18.2	16.7	0.176	0.249	0.091	0.129	
ANT 4	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	462000	2310	25	14	18.2	16.7	0.164	0.232	0.085	0.120	
ANT 4	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	462000	2310	1	26	18.2	16.7	0.129	0.182	0.070	0.099	
ANT 4	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	462000	2310	25	14	18.2	16.7	0.128	0.181	0.068	0.096	
ANT 4	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	462000	2310	1	26	18.2	16.7	0.056	0.079	0.030	0.042	
ANT 4	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	462000	2310	25	14	18.2	16.7	0.053	0.075	0.028	0.040	
ANT 4	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	462000	2310	1	26	19.0	17.9	0.460	0.593	0.206	0.265	
ANT 4	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	462000	2310	25	14	19.0	17.8	0.395	0.521	0.179	0.236	
ANT 4	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	462000	2310	1	26	19.0	17.9	0.311	0.401	0.143	0.184	
ANT 4	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	462000	2310	25	14	19.0	17.8	0.302	0.398	0.138	0.182	
ANT 4	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Top	462000	2310	1	26	19.0	17.9	0.076	0.098	0.034	0.044	
ANT 4	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Top	462000	2310	25	14	19.0	17.8	0.073	0.096	0.032	0.042	
ANT 4	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Right	462000	2310	1	26	19.0	17.9	0.703	0.906	0.308	0.397	
ANT 4	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Right	462000	2310	25	14	19.0	17.8	0.694	0.915	0.303	0.399	

### 10.27. NR Band n41 PC3 (100MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	518598	2592.99	1	136	23.8	23.3	0.138	0.155	0.080	0.090	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	518598	2592.99	135	69	23.8	23.1	0.138	0.162	0.081	0.095	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	518598	2592.99	1	136	23.8	23.3	0.203	0.228	0.106	0.119	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	518598	2592.99	135	69	23.8	23.1	0.191	0.224	0.101	0.119	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	518598	2592.99	1	136	23.8	23.3	0.281	0.315	0.151	0.169	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	518598	2592.99	135	69	23.8	23.1	0.277	0.325	0.147	0.173	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	518598	2592.99	1	136	23.8	23.3	0.127	0.142	0.072	0.081	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	518598	2592.99	135	69	23.8	23.1	0.126	0.148	0.070	0.082	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	518598	2592.99	1	136	20.5	19.9	0.657	0.754	0.296	0.340	76
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	518598	2592.99	135	69	20.5	20.0	0.640	0.718	0.290	0.325	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	518598	2592.99	1	136	20.5	19.9	0.543	0.623	0.248	0.285	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	518598	2592.99	135	69	20.5	20.0	0.573	0.643	0.260	0.292	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	518598	2592.99	1	136	20.5	19.9	0.705	0.809	0.301	0.346	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	518598	2592.99	135	69	20.5	20.0	0.751	0.843	0.321	0.360	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	518598	2592.99	1	136	20.5	19.9	0.451	0.518	0.192	0.220	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	518598	2592.99	135	69	20.5	20.0	0.458	0.514	0.195	0.219	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	518598	2592.99	1	136	20.5	19.9	0.014	0.016	0.006	0.007	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	518598	2592.99	135	69	20.5	20.0	0.017	0.019	0.008	0.009	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	518598	2592.99	1	136	19.0	18.5	0.692	0.776	0.250	0.281	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	518598	2592.99	135	69	19.0	18.4	0.644	0.739	0.235	0.270	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	518598	2592.99	1	136	19.0	18.5	0.704	0.790	0.255	0.286	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	518598	2592.99	135	69	19.0	18.4	0.641	0.736	0.229	0.263	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	518598	2592.99	1	136	19.0	18.5	0.557	0.625	0.214	0.240	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	518598	2592.99	135	69	19.0	18.4	0.566	0.650	0.214	0.246	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	518598	2592.99	1	136	19.0	18.5	0.487	0.546	0.185	0.208	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	518598	2592.99	135	69	19.0	18.4	0.453	0.520	0.173	0.199	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	518598	2592.99	1	136	18.6	18.3	0.561	0.601	0.235	0.252	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	518598	2592.99	135	69	18.6	18.4	0.634	0.664	0.267	0.280	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	518598	2592.99	1	136	18.6	18.3	0.345	0.370	0.129	0.138	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	518598	2592.99	135	69	18.6	18.4	0.349	0.365	0.137	0.143	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	518598	2592.99	1	136	18.6	18.3	0.667	0.715	0.233	0.250	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	518598	2592.99	135	69	18.6	18.4	0.708	0.741	0.254	0.266	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	518598	2592.99	1	136	18.6	18.3	0.061	0.065	0.023	0.025	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	518598	2592.99	135	69	18.6	18.4	0.055	0.058	0.022	0.023	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	518598	2592.99	1	136	18.6	18.3	0.289	0.310	0.123	0.132	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	518598	2592.99	135	69	18.6	18.4	0.284	0.297	0.125	0.131	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	518598	2592.99	1	136	22.5	22.1	0.047	0.052	0.022	0.024	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	518598	2592.99	135	69	22.5	22.0	0.053	0.059	0.025	0.028	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	518598	2592.99	1	136	22.5	22.1	0.016	0.018	0.004	0.004	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	518598	2592.99	135	69	22.5	22.0	0.008	0.009	0.001	0.001	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	518598	2592.99	1	136	22.5	22.1	0.024	0.026	0.013	0.014	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	518598	2592.99	135	69	22.5	22.0	0.025	0.028	0.014	0.016	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	518598	2592.99	1	136	22.5	22.1	0.015	0.016	0.006	0.007	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	518598	2592.99	135	69	22.5	22.0	0.003	0.003	0.000	0.000	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	518598	2592.99	1	136	19.2	19.2	0.506	0.506	0.233	0.233	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	518598	2592.99	135	69	19.2	19.2	0.549	0.549	0.244	0.244	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	518598	2592.99	1	136	19.2	19.2	0.666	0.666	0.310	0.310	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	518598	2592.99	135	69	19.2	19.2	0.601	0.601	0.287	0.287	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	518598	2592.99	1	136	19.2	19.2	0.635	0.635	0.307	0.307	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	518598	2592.99	135	69	19.2	19.2	0.628	0.628	0.305	0.305	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	518598	2592.99	1	136	19.2	19.2	0.301	0.301	0.117	0.117	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	518598	2592.99	135	69	19.2	19.2	0.329	0.329	0.128	0.128	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	518598	2592.99	1	136	18.7	18.4	0.865	0.927	0.348	0.373	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	518598	2592.99	135	69	18.7	18.4	0.882	0.945	0.356	0.381	77
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	518598	2592.99	1	136	18.7	18.4	0.175	0.188	0.085	0.091	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	518598	2592.99	135	69	18.7	18.4	0.176	0.189	0.085	0.091	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	518598	2592.99	1	136	18.7	18.4	0.207	0.222	0.103	0.110	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	518598	2592.99	135	69	18.7	18.4	0.222	0.238	0.109	0.117	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	518598	2592.99	1	136	18.7	18.4	0.052	0.056	0.023	0.025	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	518598	2592.99	135	69	18.7	18.4	0.051	0.055	0.026	0.028	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	518598	2592.99	1	136	18.1	18.0	0.393	0.402	0.172	0.176	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	518598	2592.99	135	69	18.1	17.9	0.393	0.412	0.170	0.178	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	518598	2592.99	1	136	18.1	18.0	0.337	0.345	0.145	0.148	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	518598	2592.99	135	69	18.1	17.9	0.315	0.330	0.137	0.143	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	518598	2592.99	1	136	18.1	18.0	0.036	0.037	0.017	0.017	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	518598	2592.99	135	69	18.1	17.9	0.037	0.039	0.018	0.019	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	518598	2592.99	1	136	18.1	18.0	0.838	0.858	0.346	0.354	78
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	518598	2592.99	135	69	18.1	17.9	0.779	0.816	0.326	0.341	

### 10.28. NR Band n41 PC2 (100MHz Bandwidth)

#### Reported SAR vs. Output Power linearly scaled

Antenna	RF Exposure Condition	FR1 n41 PC2			FR1 n41 PC3				PC2 Linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)	Testing Required
		Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Reported SAR (W/kg)			
ANT 1	Head	50.0%	26.8	239.3	100.0%	23.8	239.9	0.325	0.325	-0.1%	No
ANT 1	Body & Hotspot	50.0%	23.5	111.9	100.0%	20.5	112.2	0.754	0.753	-0.2%	No
ANT 1	Hotspot	50.0%	23.5	111.9	100.0%	20.5	112.2	0.843	0.841	-0.2%	No
Antenna	RF Exposure Condition	FR1 n41 PC2			FR1 n41 PC3				PC2 Linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)	Testing Required
		Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Reported SAR (W/kg)			
ANT 2	Head	50.0%	22.0	79.2	100.0%	19.0	79.4	0.790	0.788	-0.2%	No
ANT 2	Body & Hotspot	50.0%	21.6	72.3	100.0%	18.6	72.4	0.664	0.662	-0.3%	No
ANT 2	Hotspot	50.0%	21.6	72.3	100.0%	18.6	72.4	0.741	0.740	-0.2%	No
Antenna	RF Exposure Condition	FR1 n41 PC2			FR1 n41 PC3				PC2 Linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)	Testing Required
		Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Reported SAR (W/kg)			
ANT 3	Head	50.0%	25.5	177.4	100.0%	22.5	177.8	0.059	0.059	-0.8%	No
ANT 3	Body & Hotspot	50.0%	22.2	83.0	100.0%	19.2	83.2	0.666	0.664	-0.3%	No
ANT 3	Hotspot	50.0%	22.2	83.0	100.0%	19.2	83.2	0.635	0.633	-0.3%	No
Antenna	RF Exposure Condition	FR1 n41 PC2			FR1 n41 PC3				PC2 Linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)	Testing Required
		Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Reported SAR (W/kg)			
ANT 4	Head	50.0%	21.7	74.0	100.0%	18.7	74.1	0.945	0.943	-0.2%	No
ANT 4	Body & Hotspot	50.0%	21.1	64.4	100.0%	18.1	64.6	0.412	0.411	-0.1%	No
ANT 4	Hotspot	50.0%	21.1	64.4	100.0%	18.1	64.6	0.858	0.855	-0.3%	No



### 10.29. NR Band n48 (100MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	642888	3643.32	1	53	21.5	20.5	0.041	0.052	0.019	0.024	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	642888	3643.32	50	28	21.5	20.3	0.045	0.059	0.019	0.025	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	642888	3643.32	1	53	21.5	20.5	0.058	0.073	0.024	0.030	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	642888	3643.32	50	28	21.5	20.3	0.059	0.078	0.025	0.033	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	642888	3643.32	1	53	21.5	20.5	0.141	0.178	0.062	0.078	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	642888	3643.32	50	28	21.5	20.3	0.143	0.189	0.061	0.080	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	642888	3643.32	1	53	21.5	20.5	0.044	0.055	0.019	0.024	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	642888	3643.32	50	28	21.5	20.3	0.044	0.058	0.019	0.025	
ANT 7	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	642888	3643.32	1	53	18.3	17.4	0.413	0.508	0.153	0.188	
ANT 7	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	642888	3643.32	50	28	18.3	17.4	0.433	0.533	0.158	0.194	
ANT 7	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	642888	3643.32	1	53	18.3	17.4	0.223	0.274	0.079	0.097	
ANT 7	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	642888	3643.32	50	28	18.3	17.4	0.189	0.233	0.069	0.085	
ANT 7	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	642888	3643.32	1	53	18.3	17.4	0.641	0.789	0.231	0.284	
ANT 7	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	642888	3643.32	50	28	18.3	17.4	0.641	0.789	0.231	0.284	
ANT 7	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	642888	3643.32	1	53	18.3	17.4	0.161	0.198	0.054	0.066	
ANT 7	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	642888	3643.32	50	28	18.3	17.4	0.187	0.230	0.064	0.079	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	642888	3643.32	1	53	20.2	20.2	0.791	0.791	0.249	0.249	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	642888	3643.32	50	28	20.2	20.2	0.788	0.788	0.248	0.248	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	642888	3643.32	1	53	20.2	20.2	0.930	0.930	0.278	0.278	79
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	642888	3643.32	50	28	20.2	20.2	0.905	0.905	0.275	0.275	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	642888	3643.32	1	53	20.2	20.2	0.493	0.493	0.186	0.186	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	642888	3643.32	50	28	20.2	20.2	0.541	0.541	0.194	0.194	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	642888	3643.32	1	53	20.2	20.2	0.511	0.511	0.185	0.185	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	642888	3643.32	50	28	20.2	20.2	0.513	0.513	0.187	0.187	
ANT 8	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	642888	3643.32	1	53	20.2	18.7	0.542	0.766	0.199	0.281	80
ANT 8	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	642888	3643.32	50	28	20.2	18.7	0.514	0.726	0.190	0.268	
ANT 8	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	642888	3643.32	1	53	20.2	18.7	0.352	0.497	0.119	0.168	
ANT 8	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	642888	3643.32	50	28	20.2	18.7	0.388	0.548	0.129	0.182	
ANT 8	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	642888	3643.32	1	53	20.2	18.7	0.586	0.828	0.188	0.266	81
ANT 8	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	642888	3643.32	50	28	20.2	18.7	0.551	0.778	0.177	0.250	
ANT 8	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	642888	3643.32	1	53	20.2	18.7	0.047	0.066	0.019	0.027	
ANT 8	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	642888	3643.32	50	28	20.2	18.7	0.038	0.054	0.015	0.021	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	642888	3643.32	1	53	19.6	19.1	0.086	0.096	0.037	0.042	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	642888	3643.32	50	28	19.6	19.0	0.085	0.098	0.037	0.042	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	642888	3643.32	1	53	19.6	19.1	0.029	0.033	0.010	0.011	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	642888	3643.32	50	28	19.6	19.0	0.028	0.032	0.011	0.013	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	642888	3643.32	1	53	19.6	19.1	0.042	0.047	0.018	0.020	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	642888	3643.32	50	28	19.6	19.0	0.051	0.059	0.023	0.026	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	642888	3643.32	1	53	19.6	19.1	0.041	0.046	0.014	0.016	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	642888	3643.32	50	28	19.6	19.0	0.053	0.061	0.019	0.022	
ANT 9	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	642888	3643.32	1	53	18.6	18.4	0.595	0.623	0.201	0.210	
ANT 9	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	642888	3643.32	50	28	18.6	18.3	0.603	0.646	0.205	0.220	
ANT 9	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	642888	3643.32	1	53	18.6	18.4	0.475	0.497	0.164	0.172	
ANT 9	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	642888	3643.32	50	28	18.6	18.3	0.459	0.492	0.158	0.169	
ANT 9	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	642888	3643.32	1	53	18.6	18.4	0.225	0.236	0.085	0.089	
ANT 9	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	642888	3643.32	50	28	18.6	18.3	0.211	0.226	0.080	0.086	
ANT 9	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	642888	3643.32	1	53	18.6	18.4	0.519	0.543	0.190	0.199	
ANT 9	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	642888	3643.32	50	28	18.6	18.3	0.520	0.557	0.191	0.205	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	642888	3643.32	1	53	19.5	18.2	0.671	0.905	0.253	0.341	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	642888	3643.32	50	28	19.5	18.2	0.643	0.867	0.244	0.329	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	642888	3643.32	1	53	19.5	18.2	0.392	0.529	0.154	0.208	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	642888	3643.32	50	28	19.5	18.2	0.412	0.556	0.162	0.219	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	642888	3643.32	1	53	19.5	18.2	0.134	0.181	0.062	0.084	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	642888	3643.32	50	28	19.5	18.2	0.041	0.055	0.018	0.024	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	642888	3643.32	1	53	19.5	18.2	0.121	0.163	0.048	0.065	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	642888	3643.32	50	28	19.5	18.2	0.032	0.043	0.012	0.016	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	642888	3643.32	1	53	18.7	17.9	0.454	0.546	0.186	0.224	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	642888	3643.32	50	28	18.7	17.7	0.459	0.578	0.190	0.239	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	642888	3643.32	1	53	18.7	17.9	0.306	0.368	0.124	0.149	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	642888	3643.32	50	28	18.7	17.7	0.289	0.364	0.118	0.149	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	642888	3643.32	1	53	18.7	17.9	0.051	0.061	0.025	0.030	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	642888	3643.32	50	28	18.7	17.7	0.061	0.077	0.029	0.037	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	642888	3643.32	1	53	18.7	17.9	0.586	0.705	0.225	0.271	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	642888	3643.32	50	28	18.7	17.7	0.582	0.733	0.223	0.281	

### 10.30. NR Band n53 (10MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	497840	2489.2	1	12	20.7	20.7	0.071	0.071	0.040	0.040	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	497840	2489.2	12	6	20.7	20.6	0.067	0.069	0.038	0.039	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	497840	2489.2	1	12	20.7	20.7	0.076	0.076	0.040	0.040	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	497840	2489.2	12	6	20.7	20.6	0.075	0.077	0.040	0.041	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	497840	2489.2	1	12	20.7	20.7	0.151	0.151	0.084	0.084	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	497840	2489.2	12	6	20.7	20.6	0.132	0.135	0.074	0.076	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	497840	2489.2	1	12	20.7	20.7	0.052	0.052	0.029	0.029	
ANT 1	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	497840	2489.2	12	6	20.7	20.6	0.059	0.060	0.032	0.033	
ANT 1	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	497840	2489.2	1	12	20.7	20.0	0.601	0.706	0.278	0.327	
ANT 1	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	497840	2489.2	12	6	20.7	20.0	0.596	0.700	0.274	0.322	
ANT 1	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	497840	2489.2	1	12	20.7	20.0	0.501	0.589	0.249	0.293	
ANT 1	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	497840	2489.2	12	6	20.7	20.0	0.476	0.559	0.236	0.277	
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Right	497840	2489.2	1	12	20.7	20.0	0.717	<b>0.842</b>	0.313	0.368	82
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Right	497840	2489.2	12	6	20.7	20.0	0.698	0.820	0.308	0.362	
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Bottom	497840	2489.2	1	12	20.7	20.0	0.440	0.517	0.182	0.214	
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Bottom	497840	2489.2	12	6	20.7	20.0	0.444	0.522	0.184	0.216	
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Left	497840	2489.2	1	12	20.7	20.0	0.027	0.032	0.012	0.014	
ANT 1	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Left	497840	2489.2	12	6	20.7	20.0	0.028	0.033	0.013	0.015	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	497840	2489.2	1	12	19.6	19.1	0.708	0.794	0.276	0.310	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Cheek	497840	2489.2	12	6	19.6	19.1	0.726	0.815	0.287	0.322	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	497840	2489.2	1	12	19.6	19.1	0.792	0.889	0.307	0.344	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Left Tilt	497840	2489.2	12	6	19.6	19.1	0.800	<b>0.898</b>	0.308	0.346	83
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	497840	2489.2	1	12	19.6	19.1	0.645	0.724	0.303	0.340	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Cheek	497840	2489.2	12	6	19.6	19.1	0.641	0.719	0.297	0.333	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	497840	2489.2	1	12	19.6	19.1	0.578	0.649	0.245	0.275	
ANT 2	Head	DFT-s-OFDM $\pi/2$ BPSK	Mode A	0	Right Tilt	497840	2489.2	12	6	19.6	19.1	0.576	0.646	0.244	0.274	
ANT 2	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	497840	2489.2	1	12	18.1	18.0	0.904	<b>0.925</b>	0.365	0.374	84
ANT 2	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Back	497840	2489.2	12	6	18.1	17.9	0.767	0.803	0.313	0.328	
ANT 2	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	497840	2489.2	1	12	18.1	18.0	0.316	0.323	0.135	0.138	
ANT 2	Body & Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Front	497840	2489.2	12	6	18.1	17.9	0.321	0.336	0.138	0.145	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Top	497840	2489.2	1	12	18.1	18.0	0.550	0.563	0.205	0.210	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Top	497840	2489.2	12	6	18.1	17.9	0.531	0.556	0.199	0.208	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Right	497840	2489.2	1	12	18.1	18.0	0.044	0.045	0.020	0.020	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Right	497840	2489.2	12	6	18.1	17.9	0.041	0.043	0.020	0.021	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Left	497840	2489.2	1	12	18.1	18.0	0.421	0.431	0.202	0.207	
ANT 2	Hotspot	DFT-s-OFDM $\pi/2$ BPSK	Mode B	5	Edge Left	497840	2489.2	12	6	18.1	17.9	0.442	0.463	0.210	0.220	

### 10.31. NR Band n66 (40MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	349000	1745	1	108	24.2	23.8	0.079	0.087	0.053	0.058	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	349000	1745	108	54	24.2	23.7	0.096	0.108	0.064	0.072	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	349000	1745	1	108	24.2	23.8	0.054	0.059	0.035	0.038	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	349000	1745	108	54	24.2	23.7	0.052	0.058	0.034	0.038	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	349000	1745	1	108	24.2	23.8	0.167	0.183	0.107	0.117	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	349000	1745	108	54	24.2	23.7	0.162	0.182	0.105	0.118	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	349000	1745	1	108	24.2	23.8	0.057	0.062	0.037	0.041	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	349000	1745	108	54	24.2	23.7	0.055	0.062	0.034	0.038	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	349000	1745	1	108	19.1	17.8	0.453	0.611	0.228	0.308	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	349000	1745	108	54	19.1	17.7	0.438	0.605	0.221	0.305	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	349000	1745	1	108	19.1	17.8	0.341	0.460	0.167	0.225	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	349000	1745	108	54	19.1	17.7	0.387	0.534	0.183	0.253	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	349000	1745	1	108	19.1	17.8	0.184	0.248	0.091	0.123	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	349000	1745	108	54	19.1	17.7	0.135	0.186	0.068	0.094	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	349000	1745	1	108	19.1	17.8	0.636	0.858	0.307	0.414	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	349000	1745	108	54	19.1	17.7	0.610	0.842	0.296	0.409	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	349000	1745	1	108	19.1	17.8	0.008	0.011	0.004	0.005	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	349000	1745	108	54	19.1	17.7	0.007	0.010	0.004	0.006	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	349000	1745	1	108	19.8	19.1	0.488	0.573	0.233	0.274	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	349000	1745	108	54	19.8	19.1	0.514	0.604	0.248	0.291	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	349000	1745	1	108	19.8	19.1	0.563	0.661	0.268	0.315	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	349000	1745	108	54	19.8	19.1	0.645	0.758	0.296	0.348	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	349000	1745	1	108	19.8	19.1	0.687	0.807	0.334	0.392	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	349000	1745	108	54	19.8	19.1	0.630	0.740	0.309	0.363	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	349000	1745	1	108	19.8	19.1	0.753	0.885	0.348	0.409	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	349000	1745	108	54	19.8	19.1	0.770	<b>0.905</b>	0.354	0.416	85
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	349000	1745	1	108	19.8	19.7	0.541	0.554	0.256	0.262	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	349000	1745	108	54	19.8	19.7	0.538	0.551	0.261	0.267	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	349000	1745	1	108	19.8	19.7	0.465	0.476	0.220	0.225	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	349000	1745	108	54	19.8	19.7	0.524	0.536	0.245	0.251	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	349000	1745	1	108	19.8	19.7	0.846	0.866	0.382	0.391	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	349000	1745	108	54	19.8	19.7	0.885	<b>0.906</b>	0.400	0.409	86
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	349000	1745	1	108	19.8	19.7	0.023	0.024	0.012	0.012	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	349000	1745	108	54	19.8	19.7	0.014	0.014	0.008	0.008	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	349000	1745	1	108	19.8	19.7	0.159	0.163	0.081	0.083	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	349000	1745	108	54	19.8	19.7	0.191	0.195	0.094	0.096	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	349000	1745	1	108	21.6	21.3	0.206	0.221	0.132	0.141	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	349000	1745	108	54	21.6	21.2	0.154	0.169	0.099	0.109	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	349000	1745	1	108	21.6	21.3	0.078	0.084	0.054	0.058	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	349000	1745	108	54	21.6	21.2	0.062	0.068	0.042	0.046	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	349000	1745	1	108	21.6	21.3	0.083	0.089	0.056	0.060	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	349000	1745	108	54	21.6	21.2	0.089	0.098	0.059	0.065	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	349000	1745	1	108	21.6	21.3	0.066	0.071	0.042	0.045	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	349000	1745	108	54	21.6	21.2	0.069	0.076	0.043	0.047	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	349000	1745	1	108	22.4	20.9	0.585	0.826	0.330	0.466	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	349000	1745	108	54	22.4	20.9	0.623	<b>0.880</b>	0.349	0.493	87
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	349000	1745	1	108	22.4	20.9	0.376	0.531	0.223	0.315	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	349000	1745	108	54	22.4	20.9	0.407	0.575	0.241	0.340	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	349000	1745	1	108	22.4	20.9	0.086	0.121	0.035	0.049	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	349000	1745	108	54	22.4	20.9	0.088	0.124	0.036	0.051	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	349000	1745	1	108	22.4	20.9	0.545	0.770	0.297	0.420	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	349000	1745	108	54	22.4	20.9	0.560	0.791	0.305	0.431	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	349000	1745	1	108	19.1	18.6	0.789	0.885	0.363	0.407	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	349000	1745	108	54	19.1	18.6	0.794	0.891	0.366	0.411	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	349000	1745	1	108	19.1	18.6	0.262	0.294	0.134	0.150	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	349000	1745	108	54	19.1	18.6	0.226	0.254	0.120	0.135	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	349000	1745	1	108	19.1	18.6	0.168	0.188	0.097	0.109	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	349000	1745	108	54	19.1	18.6	0.170	0.191	0.100	0.112	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	349000	1745	1	108	19.1	18.6	0.109	0.122	0.060	0.067	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	349000	1745	108	54	19.1	18.6	0.107	0.120	0.059	0.066	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	349000	1745	1	108	20.7	20.3	0.507	0.556	0.250	0.274	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	349000	1745	108	54	20.7	20.3	0.499	0.547	0.243	0.266	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	349000	1745	1	108	20.7	20.3	0.384	0.421	0.187	0.205	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	349000	1745	108	54	20.7	20.3	0.389	0.427	0.189	0.207	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	349000	1745	1	108	20.7	20.3	0.135	0.148	0.061	0.067	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	349000	1745	108	54	20.7	20.3	0.141	0.155	0.064	0.070	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	349000	1745	1	108	20.7	20.3	0.747	0.819	0.357	0.391	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	349000	1745	108	54	20.7	20.3	0.756	0.829	0.359	0.394	



### 10.32. NR Band n70 (15MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	340500	1702.5	1	39	24.2	24.0	0.040	0.042	0.026	0.027	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	340500	1702.5	36	22	24.2	23.8	0.038	0.042	0.025	0.027	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	340500	1702.5	1	39	24.2	24.0	0.032	0.034	0.021	0.022	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	340500	1702.5	36	22	24.2	23.8	0.030	0.033	0.020	0.022	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	340500	1702.5	1	39	24.2	24.0	0.092	0.096	0.060	0.063	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	340500	1702.5	36	22	24.2	23.8	0.091	0.100	0.060	0.066	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	340500	1702.5	1	39	24.2	24.0	0.041	0.043	0.025	0.026	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	340500	1702.5	36	22	24.2	23.8	0.037	0.041	0.023	0.025	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	340500	1702.5	1	39	19.1	17.9	0.440	0.580	0.220	0.290	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	340500	1702.5	36	22	19.1	17.8	0.420	0.567	0.210	0.283	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	340500	1702.5	1	39	19.1	17.9	0.334	0.440	0.165	0.218	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	340500	1702.5	36	22	19.1	17.8	0.353	0.476	0.170	0.229	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	340500	1702.5	1	39	19.1	17.9	0.109	0.144	0.053	0.070	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	340500	1702.5	36	22	19.1	17.8	0.096	0.130	0.047	0.063	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	340500	1702.5	1	39	19.1	17.9	0.613	0.808	0.300	0.395	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	340500	1702.5	36	22	19.1	17.8	0.577	0.778	0.284	0.383	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	340500	1702.5	1	39	19.1	17.9	0.010	0.013	0.006	0.008	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	340500	1702.5	36	22	19.1	17.8	0.009	0.012	0.005	0.007	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	340500	1702.5	1	39	19.8	19.4	0.485	0.532	0.238	0.261	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	340500	1702.5	36	22	19.8	19.1	0.440	0.517	0.215	0.253	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	340500	1702.5	1	39	19.8	19.4	0.619	0.679	0.292	0.320	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	340500	1702.5	36	22	19.8	19.1	0.550	0.646	0.266	0.313	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	340500	1702.5	1	39	19.8	19.4	0.654	0.717	0.317	0.348	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	340500	1702.5	36	22	19.8	19.1	0.584	0.686	0.282	0.331	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	340500	1702.5	1	39	19.8	19.4	0.674	0.739	0.309	0.339	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	340500	1702.5	36	22	19.8	19.1	0.670	0.787	0.308	0.362	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	340500	1702.5	1	39	19.8	19.8	0.446	0.446	0.215	0.215	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	340500	1702.5	36	22	19.8	19.5	0.501	0.537	0.238	0.255	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	340500	1702.5	1	39	19.8	19.8	0.448	0.448	0.212	0.212	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	340500	1702.5	36	22	19.8	19.5	0.362	0.388	0.175	0.188	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	340500	1702.5	1	39	19.8	19.8	0.863	0.863	0.393	0.393	88
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	340500	1702.5	36	22	19.8	19.5	0.791	0.848	0.360	0.386	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	340500	1702.5	1	39	19.8	19.8	0.029	0.029	0.017	0.017	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	340500	1702.5	36	22	19.8	19.5	0.029	0.031	0.017	0.018	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	340500	1702.5	1	39	19.8	19.8	0.087	0.087	0.044	0.044	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	340500	1702.5	36	22	19.8	19.5	0.082	0.088	0.041	0.044	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	340500	1702.5	1	39	21.6	21.6	0.137	0.137	0.089	0.089	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	340500	1702.5	36	22	21.6	21.5	0.138	0.141	0.091	0.093	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	340500	1702.5	1	39	21.6	21.6	0.081	0.081	0.054	0.054	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	340500	1702.5	36	22	21.6	21.5	0.104	0.106	0.068	0.070	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	340500	1702.5	1	39	21.6	21.6	0.102	0.102	0.067	0.067	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	340500	1702.5	36	22	21.6	21.5	0.092	0.094	0.060	0.061	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	340500	1702.5	1	39	21.6	21.6	0.072	0.072	0.046	0.046	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	340500	1702.5	36	22	21.6	21.5	0.069	0.071	0.044	0.045	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	340500	1702.5	1	39	22.4	21.5	0.466	0.573	0.261	0.321	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	340500	1702.5	36	22	22.4	21.2	0.478	0.630	0.265	0.349	89
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	340500	1702.5	1	39	22.4	21.5	0.486	0.598	0.270	0.332	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	340500	1702.5	36	22	22.4	21.2	0.434	0.572	0.244	0.322	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	340500	1702.5	1	39	22.4	21.5	0.286	0.352	0.140	0.172	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	340500	1702.5	36	22	22.4	21.2	0.284	0.374	0.139	0.183	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	340500	1702.5	1	39	22.4	21.5	0.435	0.535	0.238	0.293	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	340500	1702.5	36	22	22.4	21.2	0.459	0.605	0.250	0.330	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	340500	1702.5	1	39	19.1	18.2	0.729	0.897	0.338	0.416	90
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	340500	1702.5	36	22	19.1	18.1	0.617	0.777	0.292	0.368	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	340500	1702.5	1	39	19.1	18.2	0.271	0.333	0.137	0.169	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	340500	1702.5	36	22	19.1	18.1	0.262	0.330	0.132	0.166	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	340500	1702.5	1	39	19.1	18.2	0.142	0.175	0.083	0.102	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	340500	1702.5	36	22	19.1	18.1	0.163	0.205	0.093	0.117	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	340500	1702.5	1	39	19.1	18.2	0.108	0.133	0.061	0.075	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	340500	1702.5	36	22	19.1	18.1	0.113	0.142	0.063	0.079	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	340500	1702.5	1	39	20.7	20.7	0.581	0.581	0.281	0.281	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	340500	1702.5	36	22	20.7	20.6	0.471	0.482	0.230	0.235	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	340500	1702.5	1	39	20.7	20.7	0.264	0.264	0.141	0.141	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	340500	1702.5	36	22	20.7	20.6	0.305	0.312	0.154	0.158	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	340500	1702.5	1	39	20.7	20.7	0.152	0.152	0.069	0.069	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	340500	1702.5	36	22	20.7	20.6	0.141	0.144	0.064	0.065	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	340500	1702.5	1	39	20.7	20.7	0.688	0.688	0.330	0.330	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	340500	1702.5	36	22	20.7	20.6	0.668	0.684	0.320	0.327	

### 10.33. NR Band n71 (20MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	136100	680.5	1	53	25.7	25.4	0.149	0.160	0.119	0.128	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	136100	680.5	50	28	25.7	25.4	0.147	0.158	0.117	0.125	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	136100	680.5	1	53	25.7	25.4	0.074	0.079	0.060	0.064	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	136100	680.5	50	28	25.7	25.4	0.074	0.079	0.061	0.065	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	136100	680.5	1	53	25.7	25.4	0.183	0.196	0.144	0.154	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	136100	680.5	50	28	25.7	25.4	0.185	0.198	0.146	0.156	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	136100	680.5	1	53	25.7	25.4	0.067	0.072	0.040	0.043	
ANT 1	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	136100	680.5	50	28	25.7	25.4	0.066	0.071	0.039	0.042	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	136100	680.5	1	53	25.7	25.6	0.564	0.577	0.314	0.321	91
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	136100	680.5	50	28	25.7	25.6	0.525	0.537	0.298	0.305	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	136100	680.5	1	53	25.7	25.6	0.290	0.297	0.182	0.186	
ANT 1	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	136100	680.5	50	28	25.7	25.6	0.291	0.298	0.181	0.185	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	136100	680.5	1	53	25.7	25.6	0.675	0.691	0.392	0.401	92
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	136100	680.5	50	28	25.7	25.6	0.647	0.662	0.436	0.446	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	136100	680.5	1	53	25.7	25.6	0.371	0.380	0.170	0.174	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	136100	680.5	50	28	25.7	25.6	0.355	0.363	0.162	0.166	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	136100	680.5	1	53	25.7	25.6	0.251	0.257	0.167	0.171	
ANT 1	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	136100	680.5	50	28	25.7	25.6	0.273	0.279	0.181	0.185	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	136100	680.5	1	53	24.7	24.5	0.544	0.570	0.335	0.351	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	136100	680.5	50	28	24.7	24.4	0.538	0.576	0.331	0.355	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	136100	680.5	1	53	24.7	24.5	0.537	0.562	0.279	0.292	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	136100	680.5	50	28	24.7	24.4	0.543	0.582	0.283	0.303	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	136100	680.5	1	53	24.7	24.5	0.603	0.631	0.360	0.377	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	136100	680.5	50	28	24.7	24.4	0.684	0.733	0.406	0.435	93
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	136100	680.5	1	53	24.7	24.5	0.524	0.549	0.290	0.304	
ANT 2	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	136100	680.5	50	28	24.7	24.4	0.541	0.580	0.291	0.312	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	136100	680.5	1	53	24.7	24.5	0.449	0.470	0.264	0.276	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	136100	680.5	50	28	24.7	24.4	0.440	0.471	0.260	0.279	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	136100	680.5	1	53	24.7	24.5	0.316	0.331	0.185	0.194	
ANT 2	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	136100	680.5	50	28	24.7	24.4	0.316	0.339	0.186	0.199	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	136100	680.5	1	53	24.7	24.5	0.315	0.330	0.138	0.145	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	136100	680.5	50	28	24.7	24.4	0.260	0.279	0.117	0.125	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	136100	680.5	1	53	24.7	24.5	0.159	0.166	0.107	0.112	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	136100	680.5	50	28	24.7	24.4	0.154	0.165	0.104	0.111	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	136100	680.5	1	53	24.7	24.5	0.308	0.323	0.204	0.214	
ANT 2	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	136100	680.5	50	28	24.7	24.4	0.320	0.343	0.210	0.225	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	136100	680.5	1	53	25.4	25.2	0.052	0.054	0.041	0.043	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	136100	680.5	50	28	25.4	25.2	0.049	0.051	0.039	0.041	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	136100	680.5	1	53	25.4	25.2	0.036	0.038	0.029	0.030	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	136100	680.5	50	28	25.4	25.2	0.022	0.023	0.018	0.019	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	136100	680.5	1	53	25.4	25.2	0.038	0.040	0.030	0.031	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	136100	680.5	50	28	25.4	25.2	0.040	0.042	0.032	0.034	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	136100	680.5	1	53	25.4	25.2	0.026	0.027	0.021	0.022	
ANT 3	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	136100	680.5	50	28	25.4	25.2	0.018	0.019	0.015	0.016	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	136100	680.5	1	53	25.4	25.2	0.529	0.554	0.229	0.240	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	136100	680.5	50	28	25.4	25.2	0.466	0.488	0.206	0.216	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	136100	680.5	1	53	25.4	25.2	0.243	0.254	0.122	0.128	
ANT 3	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	136100	680.5	50	28	25.4	25.2	0.244	0.255	0.123	0.129	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	136100	680.5	1	53	25.4	25.2	0.240	0.251	0.101	0.106	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	136100	680.5	50	28	25.4	25.2	0.247	0.259	0.104	0.109	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	136100	680.5	1	53	25.4	25.2	0.367	0.384	0.171	0.179	
ANT 3	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	136100	680.5	50	28	25.4	25.2	0.379	0.397	0.176	0.184	

### 10.34. NR Band n77 (Block A) PC3 (100MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	633332	3499.98	1	136	22.5	22.0	0.090	0.101	0.039	0.044	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	633332	3499.98	135	69	22.5	21.9	0.101	0.116	0.043	0.049	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	633332	3499.98	1	136	22.5	22.0	0.107	0.120	0.046	0.052	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	633332	3499.98	135	69	22.5	21.9	0.114	0.131	0.050	0.057	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	633332	3499.98	1	136	22.5	22.0	0.150	0.168	0.071	0.080	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	633332	3499.98	135	69	22.5	21.9	0.153	0.176	0.072	0.083	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	633332	3499.98	1	136	22.5	22.0	0.075	0.084	0.033	0.037	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	633332	3499.98	135	69	22.5	21.9	0.087	0.100	0.042	0.048	
ANT 7	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	633332	3499.98	1	136	18.6	18.2	0.567	0.622	0.255	0.280	
ANT 7	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	633332	3499.98	135	69	18.6	18.1	0.568	0.637	0.228	0.256	
ANT 7	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	633332	3499.98	1	136	18.6	18.2	0.414	0.454	0.156	0.171	
ANT 7	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	633332	3499.98	135	69	18.6	18.1	0.406	0.456	0.153	0.172	
ANT 7	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	633332	3499.98	1	136	18.6	18.2	0.647	0.709	0.244	0.268	
ANT 7	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	633332	3499.98	135	69	18.6	18.1	0.655	0.735	0.242	0.272	
ANT 7	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	633332	3499.98	1	136	18.6	18.2	0.187	0.205	0.068	0.075	
ANT 7	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	633332	3499.98	135	69	18.6	18.1	0.223	0.250	0.080	0.090	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	633332	3499.98	1	136	18.3	18.3	0.368	0.368	0.130	0.130	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	633332	3499.98	135	69	18.3	18.3	0.352	0.352	0.125	0.125	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	633332	3499.98	1	136	18.3	18.3	0.346	0.346	0.116	0.116	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	633332	3499.98	135	69	18.3	18.3	0.315	0.315	0.103	0.103	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	633332	3499.98	1	136	18.3	18.3	0.285	0.285	0.102	0.102	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	633332	3499.98	135	69	18.3	18.3	0.207	0.207	0.084	0.084	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	633332	3499.98	1	136	18.3	18.3	0.220	0.220	0.075	0.075	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	633332	3499.98	135	69	18.3	18.3	0.228	0.228	0.085	0.085	
ANT 8	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	633332	3500	1	136	19.5	18.5	0.507	0.638	0.171	0.215	
ANT 8	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	633332	3500	135	69	19.5	18.5	0.566	<b>0.713</b>	0.186	0.234	94
ANT 8	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	633332	3499.98	1	136	19.5	18.5	0.212	0.267	0.100	0.126	
ANT 8	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	633332	3499.98	135	69	19.5	18.5	0.151	0.190	0.051	0.064	
ANT 8	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	633332	3499.98	1	136	19.5	18.5	0.384	0.483	0.124	0.156	
ANT 8	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	633332	3499.98	135	69	19.5	18.5	0.305	0.384	0.097	0.122	
ANT 8	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	633332	3499.98	1	136	19.5	18.5	0.316	0.398	0.119	0.150	
ANT 8	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	633332	3499.98	135	69	19.5	18.5	0.226	0.285	0.085	0.107	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	633332	3499.98	1	136	20.3	20.0	0.113	0.121	0.047	0.050	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	633332	3499.98	135	69	20.3	19.8	0.103	0.116	0.046	0.052	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	633332	3499.98	1	136	20.3	20.0	0.034	0.036	0.011	0.012	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	633332	3499.98	135	69	20.3	19.8	0.031	0.035	0.010	0.011	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	633332	3499.98	1	136	20.3	20.0	0.070	0.075	0.028	0.030	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	633332	3499.98	135	69	20.3	19.8	0.043	0.048	0.016	0.018	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	633332	3499.98	1	136	20.3	20.0	0.072	0.077	0.027	0.029	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	633332	3499.98	135	69	20.3	19.8	0.073	0.082	0.028	0.031	
ANT 9	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	633332	3499.98	1	136	17.9	17.2	0.490	0.576	0.177	0.208	
ANT 9	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	633332	3499.98	135	69	17.9	17.3	0.470	0.540	0.170	0.195	
ANT 9	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	633332	3499.98	1	136	17.9	17.2	0.297	0.349	0.112	0.132	
ANT 9	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	633332	3499.98	135	69	17.9	17.3	0.312	0.358	0.116	0.133	
ANT 9	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	633332	3499.98	1	136	17.9	17.2	0.139	0.163	0.050	0.059	
ANT 9	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	633332	3499.98	135	69	17.9	17.3	0.140	0.161	0.015	0.017	
ANT 9	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	633332	3499.98	1	136	17.9	17.2	0.486	0.571	0.189	0.222	
ANT 9	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	633332	3499.98	135	69	17.9	17.3	0.470	0.540	0.185	0.212	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	633332	3499.98	1	136	18.5	18.0	0.568	<b>0.637</b>	0.219	0.246	95
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	633332	3499.98	135	69	18.5	18.1	0.542	0.594	0.209	0.229	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	633332	3499.98	1	136	18.5	18.0	0.260	0.292	0.105	0.118	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	633332	3499.98	135	69	18.5	18.1	0.276	0.303	0.113	0.124	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	633332	3499.98	1	136	18.5	18.0	0.137	0.154	0.066	0.074	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	633332	3499.98	135	69	18.5	18.1	0.182	0.200	0.085	0.093	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	633332	3499.98	1	136	18.5	18.0	0.088	0.099	0.036	0.040	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	633332	3499.98	135	69	18.5	18.1	0.094	0.103	0.040	0.044	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	633332	3499.98	1	136	18.4	17.8	0.386	0.443	0.148	0.170	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	633332	3499.98	135	69	18.4	17.8	0.326	0.374	0.130	0.149	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	633332	3499.98	1	136	18.4	17.8	0.264	0.303	0.103	0.118	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	633332	3499.98	135	69	18.4	17.8	0.269	0.309	0.106	0.122	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	633332	3499.98	1	136	18.4	17.8	0.064	0.073	0.026	0.030	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	633332	3499.98	135	69	18.4	17.8	0.046	0.053	0.021	0.024	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	633332	3499.98	1	136	18.4	17.8	0.674	<b>0.774</b>	0.262	0.301	96
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	633332	3499.98	135	69	18.4	17.8	0.668	0.767	0.260	0.299	

### 10.35. NR Band n77 (Block C) PC3 (100MHz Bandwidth)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	RB Allocation	RB Offset	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	657200	3858	1	136	22.5	22.1	0.015	0.016	0.000	0.000	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	657200	3858	135	69	22.5	22.0	0.020	0.022	0.002	0.002	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	657200	3858	1	136	22.5	22.1	0.064	0.070	0.018	0.020	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	657200	3858	135	69	22.5	22.0	0.061	0.068	0.018	0.020	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	657200	3858	1	136	22.5	22.1	0.051	0.056	0.018	0.020	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	657200	3858	135	69	22.5	22.0	0.048	0.054	0.017	0.019	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	657200	3858	1	136	22.5	22.1	0.060	0.066	0.018	0.020	
ANT 7	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	657200	3858	135	69	22.5	22.0	0.036	0.040	0.011	0.012	
ANT 7	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	657200	3858	1	136	18.6	18.6	0.475	0.475	0.164	0.164	
ANT 7	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	657200	3858	135	69	18.6	18.5	0.443	0.453	0.155	0.159	
ANT 7	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	657200	3858	1	136	18.6	18.6	0.211	0.211	0.070	0.070	
ANT 7	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	657200	3858	135	69	18.6	18.5	0.229	0.234	0.076	0.078	
ANT 7	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	657200	3858	1	136	18.6	18.6	0.337	0.337	0.116	0.116	
ANT 7	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	657200	3858	135	69	18.6	18.5	0.381	0.390	0.130	0.133	
ANT 7	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	657200	3858	1	136	18.6	18.6	0.071	0.071	0.019	0.019	
ANT 7	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	657200	3858	135	69	18.6	18.5	0.068	0.070	0.018	0.018	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	657200	3858	1	136	18.3	18.3	0.613	0.613	0.186	0.186	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	657200	3858	135	69	18.3	18.2	0.648	0.663	0.194	0.199	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	657200	3858	1	136	18.3	18.3	0.898	0.898	0.256	0.256	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	657200	3858	135	69	18.3	18.2	0.889	<b>0.910</b>	0.254	0.260	97
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	657200	3858	1	136	18.3	18.3	0.728	0.728	0.272	0.272	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	657200	3858	135	69	18.3	18.2	0.706	0.722	0.258	0.264	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	657200	3858	1	136	18.3	18.3	0.467	0.467	0.158	0.158	
ANT 8	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	657200	3858	135	69	18.3	18.2	0.483	0.494	0.137	0.140	
ANT 8	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	657200	3858	1	136	19.5	18.5	0.416	0.524	0.142	0.179	
ANT 8	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	657200	3858	135	69	19.5	18.4	0.383	0.493	0.143	0.184	
ANT 8	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	657200	3858	1	136	19.5	18.5	0.314	0.395	0.101	0.127	
ANT 8	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	657200	3858	135	69	19.5	18.4	0.338	0.435	0.108	0.139	
ANT 8	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	657200	3858	1	136	19.5	18.5	0.743	<b>0.935</b>	0.221	0.278	98
ANT 8	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	657200	3858	135	69	19.5	18.4	0.688	0.886	0.204	0.263	
ANT 8	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	657200	3858	1	136	19.5	18.5	0.201	0.253	0.069	0.087	
ANT 8	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	657200	3858	135	69	19.5	18.4	0.223	0.287	0.076	0.098	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	657200	3858	1	136	20.3	19.9	0.011	0.012	0.000	0.000	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	657200	3858	135	69	20.3	19.7	0.021	0.024	0.005	0.006	99
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	657200	3858	1	136	20.3	19.9	0.008	0.009	0.000	0.000	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	657200	3858	135	69	20.3	19.7	0.005	0.006	0.000	0.000	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	657200	3858	1	136	20.3	19.9	0.008	0.009	0.000	0.000	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	657200	3858	1	136	20.3	19.9	0.007	0.008	0.000	0.000	
ANT 9	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	657200	3858	135	69	20.3	19.7	0.016	0.018	0.000	0.000	
ANT 9	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	657200	3858	1	136	17.9	17.0	0.457	0.562	0.148	0.182	
ANT 9	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	657200	3858	135	69	17.9	17.0	0.472	<b>0.581</b>	0.151	0.186	
ANT 9	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	657200	3858	1	136	17.9	17.0	0.279	0.343	0.089	0.109	
ANT 9	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	657200	3858	135	69	17.9	17.0	0.274	0.337	0.088	0.108	
ANT 9	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	657200	3858	1	136	17.9	17.0	0.203	0.250	0.069	0.085	
ANT 9	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Bottom	657200	3858	135	69	17.9	17.0	0.193	0.237	0.065	0.080	
ANT 9	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	657200	3858	1	136	17.9	17.0	0.260	0.320	0.087	0.107	
ANT 9	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Left	657200	3858	135	69	17.9	17.0	0.304	0.374	0.100	0.123	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	657200	3858	1	136	18.5	17.5	0.244	0.307	0.091	0.115	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Cheek	657200	3858	135	69	18.5	17.4	0.214	0.276	0.079	0.102	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	657200	3858	1	136	18.5	17.5	0.172	0.217	0.059	0.074	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Left Tilt	657200	3858	135	69	18.5	17.4	0.123	0.158	0.043	0.055	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	657200	3858	1	136	18.5	17.5	0.068	0.086	0.028	0.035	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Cheek	657200	3858	135	69	18.5	17.4	0.043	0.055	0.014	0.018	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	657200	3858	1	136	18.5	17.5	0.060	0.076	0.020	0.025	
ANT 4	Head	DFT-s-OFDM 11/2 BPSK	Mode A	0	Right Tilt	657200	3858	135	69	18.5	17.4	0.057	0.073	0.020	0.026	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	657200	3858	1	136	18.4	17.4	0.158	0.199	0.056	0.070	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Back	657200	3858	135	69	18.4	17.4	0.156	0.196	0.055	0.069	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	657200	3858	1	136	18.4	17.4	0.087	0.110	0.031	0.039	
ANT 4	Body & Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Front	657200	3858	135	69	18.4	17.4	0.086	0.108	0.029	0.037	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	657200	3858	1	136	18.4	17.4	0.017	0.021	0.002	0.003	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Top	657200	3858	135	69	18.4	17.4	0.019	0.024	0.005	0.006	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	657200	3858	1	136	18.4	17.4	0.308	0.388	0.110	0.138	
ANT 4	Hotspot	DFT-s-OFDM 11/2 BPSK	Mode B	5	Edge Right	657200	3858	135	69	18.4	17.4	0.302	0.380	0.108	0.136	

### 10.36. NR Band n77 PC2 (100MHz Bandwidth)

#### Reported SAR vs. Output Power linearly scaled

Antenna	RF Exposure Condition	FR1 n77 PC2			FR1 n77 PC3				PC2 Linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)	Testing Required
		Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Reported SAR (W/kg)			
ANT 7	Head	50.0%	25.5	177.4	100.0%	22.5	177.8	0.176	0.175	-0.4%	No
ANT 7	Body & Hotspot	50.0%	21.6	72.3	100.0%	18.6	72.4	0.637	0.636	-0.2%	No
ANT 7	Hotspot	50.0%	21.6	72.3	100.0%	18.6	72.4	0.735	0.733	-0.3%	No
Antenna	RF Exposure Condition	FR1 n77 PC2			FR1 n77 PC3				PC2 Linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)	Testing Required
		Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Reported SAR (W/kg)			
ANT 8	Head	50.0%	21.3	67.5	100.0%	18.3	67.6	0.910	0.908	-0.2%	No
ANT 8	Body & Hotspot	50.0%	22.5	88.9	100.0%	19.5	89.1	0.713	0.711	-0.2%	No
ANT 8	Hotspot	50.0%	22.5	88.9	100.0%	19.5	89.1	0.935	0.933	-0.3%	No
Antenna	RF Exposure Condition	FR1 n77 PC2			FR1 n77 PC3				PC2 Linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)	Testing Required
		Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Reported SAR (W/kg)			
ANT 9	Head	50.0%	23.3	106.9	100.0%	20.3	107.2	0.562	0.561	-0.2%	No
ANT 9	Body & Hotspot	50.0%	20.9	61.5	100.0%	17.9	61.7	0.581	0.579	-0.3%	No
ANT 9	Hotspot	50.0%	20.9	61.5	100.0%	17.9	61.7	0.571	0.570	-0.2%	No
Antenna	RF Exposure Condition	FR1 n77 PC2			FR1 n77 PC3				PC2 Linearly scaled Reported SAR (W/kg)	Linearly scaled (<10%)	Testing Required
		Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Duty Cycle (%)	Max Output Power	Frame Avg Pwr (mW)	Reported SAR (W/kg)			
ANT 4	Head	50.0%	21.5	70.6	100.0%	18.5	70.8	0.637	0.636	-0.2%	No
ANT 4	Body & Hotspot	50.0%	21.4	69.0	100.0%	18.4	69.2	0.443	0.442	-0.3%	No
ANT 4	Hotspot	50.0%	21.4	69.0	100.0%	18.4	69.2	0.774	0.772	-0.2%	No

### 10.37. Wi-Fi (DTS Band)

When the 802.11b reported SAR of the highest measured maximum output power channel is  $\leq 0.8$  W/kg, no further SAR testing is required. If SAR is  $> 0.8$  W/kg and  $\leq 1.2$  W/kg, SAR is required for the next highest measured output power channel. Finally, if SAR is  $> 1.2$  W/kg, SAR is required for the third channel.

SAR testing is not required for OFDM mode(s) when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg.

ANT3 Power Mode A for Power State 2 is same as Power State 1.

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Area Scan Max. SAR (W/kg)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	802.11b	Power State 1 Mode A	0	Left Cheek	6	2437	99.94%	0.121	21.50	20.56	0.133	0.165	0.074	0.092	
ANT 3	Head	802.11b	Power State 1 Mode A	0	Left Tilt	6	2437	99.94%	0.043	21.50	20.56					
ANT 3	Head	802.11b	Power State 1 Mode A	0	Right Cheek	6	2437	99.94%	0.062	21.50	20.56					
ANT 3	Head	802.11b	Power State 1 Mode A	0	Right Tilt	6	2437	99.94%	0.043	21.50	20.56					
ANT 3	Body & Hotspot	802.11b	Power State 1 Mode B	5	Back	2	2417	99.94%	0.541	21.50	20.63	0.576	0.704	0.264	0.323	
ANT 3	Body & Hotspot	802.11b	Power State 1 Mode B	5	Back	6	2437	99.94%	0.594	21.50	20.58	0.648	0.801	0.293	0.362	
ANT 3	Body & Hotspot	802.11b	Power State 1 Mode B	5	Back	11	2462	99.94%	0.669	21.50	20.64	0.697	0.850	0.314	0.383	
ANT 3	Body & Hotspot	802.11b	Power State 1 Mode B	5	Front	6	2437	99.94%	0.488	21.50	20.58	0.443	0.548	0.211	0.261	
ANT 3	Hotspot	802.11b	Power State 1 Mode B	5	Edge Bottom	6	2437	99.94%	0.186	21.50	20.58					
ANT 3	Hotspot	802.11b	Power State 1 Mode B	5	Edge Left	2	2417	99.94%	0.623	21.50	20.63	0.626	0.765	0.270	0.330	
ANT 3	Hotspot	802.11b	Power State 1 Mode B	5	Edge Left	6	2437	99.94%	0.793	21.50	20.58	0.788	0.975	0.336	0.416	
ANT 3	Hotspot	802.11b	Power State 1 Mode B	5	Edge Left	11	2462	99.94%	0.744	21.50	20.64	0.739	0.901	0.315	0.384	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Area Scan Max. SAR (W/kg)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 4	Head	802.11b	Power State 1 Mode A	0	Left Cheek	1	2412	99.94%	0.724	20.25	18.97	0.834	1.121	0.349	0.469	103
ANT 4	Head	802.11b	Power State 1 Mode A	0	Left Cheek	6	2437	99.94%	0.730	20.25	19.33	0.855	1.057	0.359	0.444	
ANT 4	Head	802.11b	Power State 1 Mode A	0	Left Cheek	11	2462	99.94%	0.716	20.25	19.25	0.820	1.033	0.349	0.440	
ANT 4	Head	802.11b	Power State 1 Mode A	0	Left Tilt	6	2437	99.94%	0.205	20.25	19.33					
ANT 4	Head	802.11b	Power State 1 Mode A	0	Right Cheek	6	2437	99.94%	0.321	20.25	19.33	0.339	0.419	0.169	0.209	
ANT 4	Head	802.11b	Power State 1 Mode A	0	Right Tilt	6	2437	99.94%	0.084	20.25	19.33					
ANT 4	Body & Hotspot	802.11b	Power State 1 Mode B	5	Back	6	2437	99.94%	0.427	20.25	18.75	0.509	0.719	0.233	0.329	
ANT 4	Body & Hotspot	802.11b	Power State 1 Mode B	5	Front	6	2437	99.94%	0.316	20.25	18.75	0.346	0.489	0.162	0.229	
ANT 4	Hotspot	802.11b	Power State 1 Mode B	5	Edge Top	6	2437	99.94%	0.037	20.25	18.75					
ANT 4	Hotspot	802.11b	Power State 1 Mode B	5	Edge Right	1	2412	99.94%	0.590	20.25	18.71	0.634	0.904	0.278	0.397	
ANT 4	Hotspot	802.11b	Power State 1 Mode B	5	Edge Right	6	2437	99.94%	0.744	20.25	18.75	0.774	1.094	0.332	0.469	104
ANT 4	Hotspot	802.11b	Power State 1 Mode B	5	Edge Right	11	2462	99.94%	0.576	20.25	18.77	0.645	0.907	0.278	0.391	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Area Scan Max. SAR (W/kg)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Body & Hotspot	802.11b	Power State 2 Mode B	5	Back	6	2437	99.94%	0.339	18.50	17.88	0.348	0.402	0.159	0.184	
ANT 3	Body & Hotspot	802.11b	Power State 2 Mode B	5	Front	6	2437	99.94%	0.218	18.50	17.88	0.220	0.254	0.106	0.122	
ANT 3	Hotspot	802.11b	Power State 2 Mode B	5	Edge Bottom	6	2437	99.94%	0.112	18.50	17.88					
ANT 3	Hotspot	802.11b	Power State 2 Mode B	5	Edge Left	6	2437	99.94%	0.265	18.50	17.88	0.288	0.332	0.127	0.147	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Area Scan Max. SAR (W/kg)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 4	Head	802.11b	Power State 2 Mode A	0	Left Cheek	6	2437	99.94%	0.398	17.25	16.03	0.416	0.551	0.179	0.237	
ANT 4	Head	802.11b	Power State 2 Mode A	0	Left Tilt	6	2437	99.94%	0.106	17.25	16.03					
ANT 4	Head	802.11b	Power State 2 Mode A	0	Right Cheek	6	2437	99.94%	0.124	17.25	16.03	0.126	0.167	0.066	0.087	
ANT 4	Head	802.11b	Power State 2 Mode A	0	Right Tilt	6	2437	99.94%	0.051	17.25	16.03					
ANT 4	Body & Hotspot	802.11b	Power State 2 Mode B	5	Back	6	2437	99.94%	0.228	17.25	16.25					
ANT 4	Body & Hotspot	802.11b	Power State 2 Mode B	5	Front	6	2437	99.94%	0.254	17.25	16.25	0.252	0.317	0.113	0.142	
ANT 4	Hotspot	802.11b	Power State 2 Mode B	5	Edge Top	6	2437	99.94%	0.035	17.25	16.25					
ANT 4	Hotspot	802.11b	Power State 2 Mode B	5	Edge Right	6	2437	99.94%	0.439	17.25	16.25	0.427	0.538	0.183	0.231	



Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Area Scan Max. SAR (W/kg)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	802.11b	Power State 3 Mode A	0	Left Cheek	6	2437	99.94%	0.121	21.50	20.60	0.133	0.164	0.074	0.091	
ANT 3	Head	802.11b	Power State 3 Mode A	0	Left Tilt	6	2437	99.94%	0.043	21.50	20.60					
ANT 3	Head	802.11b	Power State 3 Mode A	0	Right Cheek	6	2437	99.94%	0.062	21.50	20.60					
ANT 3	Head	802.11b	Power State 3 Mode A	0	Right Tilt	6	2437	99.94%	0.043	21.50	20.60					
ANT 3	Body & Hotspot	802.11b	Power State 3 Mode B	5	Back	2	2417	99.94%	0.541	21.50	20.60	0.576	0.709	0.264	0.325	
ANT 3	Body & Hotspot	802.11b	Power State 3 Mode B	5	Back	6	2437	99.94%	0.594	21.50	20.80	0.648	0.762	0.293	0.344	
ANT 3	Body & Hotspot	802.11b	Power State 3 Mode B	5	Back	11	2462	99.94%	0.669	21.50	20.60	0.697	0.858	0.314	0.387	105
ANT 3	Body & Hotspot	802.11b	Power State 3 Mode B	5	Front	6	2437	99.94%	0.488	21.50	20.80	0.443	0.521	0.211	0.248	
ANT 3	Hotspot	802.11b	Power State 3 Mode B	5	Edge Bottom	6	2437	99.94%	0.186	21.50	20.80					
ANT 3	Hotspot	802.11b	Power State 3 Mode B	5	Edge Left	2	2417	99.94%	0.623	21.50	20.60	0.626	0.771	0.270	0.332	
ANT 3	Hotspot	802.11b	Power State 3 Mode B	5	Edge Left	6	2437	99.94%	0.793	21.50	20.80	0.788	0.926	0.336	0.395	
ANT 3	Hotspot	802.11b	Power State 3 Mode B	5	Edge Left	11	2462	99.94%	0.744	21.50	20.60	0.739	0.910	0.315	0.388	
ANT 4	Head	802.11b	Power State 3 Mode A	0	Left Cheek	1	2412	99.94%	0.724	20.25	19.00	0.834	1.113	0.349	0.466	
ANT 4	Head	802.11b	Power State 3 Mode A	0	Left Cheek	6	2437	99.94%	0.730	20.25	19.30	0.855	1.065	0.359	0.447	
ANT 4	Head	802.11b	Power State 3 Mode A	0	Left Cheek	11	2462	99.94%	0.716	20.25	19.20	0.820	1.045	0.349	0.445	
ANT 4	Head	802.11b	Power State 3 Mode A	0	Left Tilt	6	2437	99.94%	0.205	20.25	19.30					
ANT 4	Head	802.11b	Power State 3 Mode A	0	Right Cheek	6	2437	99.94%	0.321	20.25	19.30	0.339	0.422	0.169	0.210	
ANT 4	Head	802.11b	Power State 3 Mode A	0	Right Tilt	6	2437	99.94%	0.084	20.25	19.30					
ANT 4	Body & Hotspot	802.11b	Power State 3 Mode B	5	Back	6	2437	99.94%	0.427	20.25	18.75	0.509	0.719	0.233	0.329	
ANT 4	Body & Hotspot	802.11b	Power State 3 Mode B	5	Front	6	2437	99.94%	0.316	20.25	18.75	0.346	0.489	0.162	0.229	
ANT 4	Hotspot	802.11b	Power State 3 Mode B	5	Edge Top	6	2437	99.94%	0.037	20.25	18.75					
ANT 4	Hotspot	802.11b	Power State 3 Mode B	5	Edge Right	1	2412	99.94%	0.590	20.25	18.71	0.634	0.904	0.278	0.397	
ANT 4	Hotspot	802.11b	Power State 3 Mode B	5	Edge Right	6	2437	99.94%	0.744	20.25	18.75	0.774	1.094	0.332	0.469	
ANT 4	Hotspot	802.11b	Power State 3 Mode B	5	Edge Right	11	2462	99.94%	0.576	20.25	18.77	0.645	0.908	0.278	0.391	
ANT 3	Head	802.11b	Power State 4 Mode A	0	Left Cheek	6	2437	99.94%	0.121	21.25	20.56	0.133	0.156	0.074	0.087	
ANT 3	Head	802.11b	Power State 4 Mode A	0	Left Tilt	6	2437	99.94%	0.043	21.25	20.56					
ANT 3	Head	802.11b	Power State 4 Mode A	0	Right Cheek	6	2437	99.94%	0.062	21.25	20.56					
ANT 3	Head	802.11b	Power State 4 Mode A	0	Right Tilt	6	2437	99.94%	0.043	21.25	20.56					
ANT 3	Body & Hotspot	802.11b	Power State 4 Mode B	5	Back	6	2437	99.94%	0.204	17.75	16.84	0.215	0.265	0.102	0.126	
ANT 3	Body & Hotspot	802.11b	Power State 4 Mode B	5	Front	6	2437	99.94%	0.223	17.75	16.84					
ANT 3	Hotspot	802.11b	Power State 4 Mode B	5	Edge Bottom	6	2437	99.94%	0.105	17.75	16.84					
ANT 3	Hotspot	802.11b	Power State 4 Mode B	5	Edge Left	6	2437	99.94%	0.252	17.75	16.84	0.253	0.312	0.107	0.132	
ANT 4	Head	802.11b	Power State 4 Mode A	0	Left Cheek	6	2437	99.94%	0.327	16.25	14.95	0.370	0.499	0.156	0.211	
ANT 4	Head	802.11b	Power State 4 Mode A	0	Left Tilt	6	2437	99.94%	0.076	16.25	14.95					
ANT 4	Head	802.11b	Power State 4 Mode A	0	Right Cheek	6	2437	99.94%	0.132	16.25	14.95	0.126	0.170	0.066	0.089	
ANT 4	Head	802.11b	Power State 4 Mode A	0	Right Tilt	6	2437	99.94%	0.035	16.25	14.95					
ANT 4	Body & Hotspot	802.11b	Power State 4 Mode B	5	Back	6	2437	99.94%	0.204	16.25	14.95	0.227	0.306	0.099	0.134	
ANT 4	Body & Hotspot	802.11b	Power State 4 Mode B	5	Front	6	2437	99.94%	0.161	16.25	14.95					
ANT 4	Hotspot	802.11b	Power State 4 Mode B	5	Edge Top	6	2437	99.94%	0.023	16.25	14.95					
ANT 4	Hotspot	802.11b	Power State 4 Mode B	5	Edge Right	6	2437	99.94%	0.342	16.25	14.95	0.330	0.445	0.139	0.188	

### 10.38. Wi-Fi (U-NII 1-3 Bands)

#### UNII-1 &2A

When the specified maximum output power is the same for both UNII band 1 and UNII band 2A, begin SAR measurement in UNII band 2A; and if the highest reported SAR for UNII band 2A is

- $\leq 1.2$  W/kg, SAR is not required for UNII band 1
- $> 1.2$  W/kg, both bands should be tested independently for SAR.

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Area Scan Max. SAR (W/kg)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 5	Head	802.11n (HT40)	Power State 1 Mode A	0	Left Cheek	54	5270	99.48%	0.041	20.00	18.80					
ANT 5	Head	802.11n (HT40)	Power State 1 Mode A	0	Left Tilt	54	5270	99.48%	0.032	20.00	18.80					
ANT 5	Head	802.11n (HT40)	Power State 1 Mode A	0	Right Cheek	54	5270	99.48%	0.054	20.00	18.80					
ANT 5	Head	802.11n (HT40)	Power State 1 Mode A	0	Right Tilt	54	5270	99.48%	0.076	20.00	18.80	0.089	0.118	0.021	0.028	
ANT 5	Body & Hotspot	802.11n (HT40)	Power State 1 Mode B	5	Back	54	5270	99.48%	0.607	20.00	18.80	0.618	0.819	0.203	0.269	
ANT 5	Body & Hotspot	802.11n (HT40)	Power State 1 Mode B	5	Back	62	5310	99.48%	0.307	17.50	16.05	0.313	0.439	0.107	0.150	
ANT 5	Body & Hotspot	802.11n (HT40)	Power State 1 Mode B	5	Front	54	5270	99.48%	0.533	20.00	18.80	0.546	0.724	0.164	0.217	
ANT 5	Hotspot	802.11n (HT40)	Power State 1 Mode B	5	Edge Bottom	54	5270	99.48%	0.142	20.00	18.80					
ANT 5	Hotspot	802.11n (HT40)	Power State 1 Mode B	5	Edge Left	54	5270	99.48%	0.548	20.00	18.80	0.582	0.771	0.190	0.252	
ANT 5	Hotspot	802.11n (HT40)	Power State 1 Mode B	5	Edge Left	62	5310	99.48%	0.310	17.50	16.05	0.326	0.458	0.103	0.145	
ANT 6	Head	802.11n (HT40)	Power State 1 Mode A	0	Left Cheek	46	5230	99.48%	0.308	20.00	19.21					
ANT 6	Head	802.11n (HT40)	Power State 1 Mode A	0	Left Tilt	46	5230	99.48%	0.294	20.00	19.21					
ANT 6	Head	802.11n (HT40)	Power State 1 Mode A	0	Right Cheek	38	5190	99.48%	0.317	17.50	16.60	0.420	0.519	0.131	0.162	
ANT 6	Head	802.11n (HT40)	Power State 1 Mode A	0	Right Cheek	46	5230	99.48%	0.717	20.00	19.21	0.832	<b>1.003</b>	0.257	0.310	106
ANT 6	Head	802.11n (HT40)	Power State 1 Mode A	0	Right Tilt	38	5190	99.48%	0.242	17.50	16.60	0.333	0.412	0.086	0.106	
ANT 6	Head	802.11n (HT40)	Power State 1 Mode A	0	Right Tilt	46	5230	99.48%	0.489	20.00	19.21	0.678	0.818	0.178	0.215	
ANT 6	Body & Hotspot	802.11n (HT40)	Power State 1 Mode B	5	Back	38	5190	99.48%	0.576	17.50	16.60	0.651	0.805	0.183	0.226	
ANT 6	Body & Hotspot	802.11n (HT40)	Power State 1 Mode B	5	Back	46	5230	99.48%	0.733	18.75	17.48	0.805	<b>1.084</b>	0.223	0.300	107
ANT 6	Body & Hotspot	802.11n (HT40)	Power State 1 Mode B	5	Front	46	5230	99.48%	0.281	18.75	17.48	0.284	0.382	0.091	0.123	
ANT 6	Hotspot	802.11n (HT40)	Power State 1 Mode B	5	Edge Top	46	5230	99.48%	0.180	18.75	17.48					
ANT 6	Hotspot	802.11n (HT40)	Power State 1 Mode B	5	Edge Left	38	5190	99.48%	0.438	17.50	16.60	0.463	0.573	0.142	0.176	
ANT 6	Hotspot	802.11n (HT40)	Power State 1 Mode B	5	Edge Left	46	5230	99.48%	0.580	18.75	17.48	0.606	<b>0.816</b>	0.190	0.256	108
ANT 5	Head	802.11n (HT40)	Power State 2 Mode A	0	Left Cheek	46	5230	99.48%	0.028	20.00	18.92					
ANT 5	Head	802.11n (HT40)	Power State 2 Mode A	0	Left Tilt	46	5230	99.48%	0.031	20.00	18.92					
ANT 5	Head	802.11n (HT40)	Power State 2 Mode A	0	Right Cheek	46	5230	99.48%	0.030	20.00	18.92					
ANT 5	Head	802.11n (HT40)	Power State 2 Mode A	0	Right Tilt	46	5230	99.48%	0.057	20.00	18.92	0.071	0.092	0.007	0.009	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Back	42	5210	98.76%	0.275	17.50	16.02	0.312	0.444	0.099	0.141	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Front	42	5210	98.76%	0.235	17.50	16.02	0.238	0.339	0.069	0.098	
ANT 5	Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Edge Bottom	42	5210	98.76%	0.055	17.50	16.02					
ANT 5	Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Edge Left	42	5210	98.76%	0.234	17.50	16.02					
ANT 6	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Left Cheek	42	5210	98.76%	0.137	17.25	16.09					
ANT 6	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Left Tilt	42	5210	98.76%	0.122	17.25	16.09					
ANT 6	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Right Cheek	42	5210	98.76%	0.307	17.25	16.09	0.340	0.450	0.101	0.131	
ANT 6	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Right Tilt	42	5210	98.76%	0.302	17.25	16.09	0.327	0.432	0.086	0.111	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Back	42	5210	98.76%	0.247	14.75	14.02	0.270	0.323	0.062	0.073	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Front	42	5210	98.76%	0.063	14.75	14.02					
ANT 6	Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Edge Top	42	5210	98.76%	0.080	14.75	14.02					
ANT 6	Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Edge Left	42	5210	98.76%	0.228	14.75	14.02					



Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Area Scan Max. SAR (W/kg)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 5	Head	802.11n (HT40)	Power State 3 Mode A	0	Left Cheek	54	5270	99.48%	0.041	20.00	18.80					
ANT 5	Head	802.11n (HT40)	Power State 3 Mode A	0	Left Tilt	54	5270	99.48%	0.032	20.00	18.80					
ANT 5	Head	802.11n (HT40)	Power State 3 Mode A	0	Right Cheek	54	5270	99.48%	0.054	20.00	18.80					
ANT 5	Head	802.11n (HT40)	Power State 3 Mode A	0	Right Tilt	54	5270	99.48%	0.076	20.00	18.80	0.089	0.118	0.021	0.028	
ANT 5	Body & Hotspot	802.11n (HT40)	Power State 3 Mode B	5	Back	54	5270	99.48%	0.607	20.00	18.80	0.618	0.819	0.203	0.269	
ANT 5	Body & Hotspot	802.11n (HT40)	Power State 3 Mode B	5	Back	62	5310	99.48%	0.307	17.50	16.05	0.313	0.439	0.107	0.150	
ANT 5	Body & Hotspot	802.11n (HT40)	Power State 3 Mode B	5	Front	54	5270	99.48%	0.533	20.00	18.80	0.546	0.724	0.164	0.217	
ANT 5	Hotspot	802.11n (HT40)	Power State 3 Mode B	5	Edge Bottom	54	5270	99.48%	0.142	20.00	18.80					
ANT 5	Hotspot	802.11n (HT40)	Power State 3 Mode B	5	Edge Left	54	5270	99.48%	0.548	20.00	18.80	0.582	0.771	0.190	0.252	
ANT 5	Hotspot	802.11n (HT40)	Power State 3 Mode B	5	Edge Left	62	5310	99.48%	0.310	17.50	16.05	0.326	0.458	0.103	0.145	
ANT 6	Head	802.11n (HT40)	Power State 3 Mode A	0	Left Cheek	46	5230	99.48%	0.308	20.00	19.21					
ANT 6	Head	802.11n (HT40)	Power State 3 Mode A	0	Left Tilt	46	5230	99.48%	0.294	20.00	19.21					
ANT 6	Head	802.11n (HT40)	Power State 3 Mode A	0	Right Cheek	38	5190	99.48%	0.317	17.50	16.60	0.420	0.519	0.131	0.162	
ANT 6	Head	802.11n (HT40)	Power State 3 Mode A	0	Right Cheek	46	5230	99.48%	0.717	20.00	19.21	0.832	1.003	0.257	0.310	
ANT 6	Head	802.11n (HT40)	Power State 3 Mode A	0	Right Tilt	38	5190	99.48%	0.242	17.50	16.60	0.333	0.412	0.086	0.106	
ANT 6	Head	802.11n (HT40)	Power State 3 Mode A	0	Right Tilt	46	5230	99.48%	0.489	20.00	19.21	0.678	0.818	0.178	0.215	
ANT 6	Body & Hotspot	802.11n (HT40)	Power State 3 Mode B	5	Back	38	5190	99.48%	0.576	17.50	16.60	0.651	0.805	0.183	0.226	
ANT 6	Body & Hotspot	802.11n (HT40)	Power State 3 Mode B	5	Back	46	5230	99.48%	0.733	18.25	17.48	0.805	0.966	0.223	0.268	
ANT 6	Body & Hotspot	802.11n (HT40)	Power State 3 Mode B	5	Front	46	5230	99.48%	0.281	18.25	17.48	0.284	0.341	0.091	0.109	
ANT 6	Hotspot	802.11n (HT40)	Power State 3 Mode B	5	Edge Top	46	5230	99.48%	0.180	18.25	17.48					
ANT 6	Hotspot	802.11n (HT40)	Power State 3 Mode B	5	Edge Left	38	5190	99.48%	0.438	17.50	16.60	0.463	0.573	0.142	0.176	
ANT 6	Hotspot	802.11n (HT40)	Power State 3 Mode B	5	Edge Left	46	5230	99.48%	0.580	18.25	17.48	0.606	0.727	0.190	0.228	
ANT 5	Head	802.11n (HT40)	Power State 4 Mode A	0	Left Cheek	46	5230	99.48%	0.028	19.25	18.92					
ANT 5	Head	802.11n (HT40)	Power State 4 Mode A	0	Left Tilt	46	5230	99.48%	0.031	19.25	18.92					
ANT 5	Head	802.11n (HT40)	Power State 4 Mode A	0	Right Cheek	46	5230	99.48%	0.030	19.25	18.92					
ANT 5	Head	802.11n (HT40)	Power State 4 Mode A	0	Right Tilt	46	5230	99.48%	0.057	19.25	18.92	0.071	0.077	0.007	0.008	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Back	42	5210	98.76%	0.275	16.50	16.02	0.312	0.353	0.099	0.109	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Front	42	5210	98.76%	0.235	16.50	16.02	0.238	0.269	0.069	0.076	
ANT 5	Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Edge Bottom	42	5210	98.76%	0.055	16.50	16.02					
ANT 5	Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Edge Left	42	5210	98.76%	0.234	16.50	16.02					
ANT 6	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Left Cheek	42	5210	98.76%	0.137	16.25	16.09					
ANT 6	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Left Tilt	42	5210	98.76%	0.122	16.25	16.09					
ANT 6	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Right Cheek	42	5210	98.76%	0.307	16.25	16.09	0.340	0.357	0.101	0.104	
ANT 6	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Right Tilt	42	5210	98.76%	0.302	16.25	16.09	0.327	0.344	0.086	0.088	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Back	42	5210	98.76%	0.203	13.75	12.76	0.230	0.293	0.055	0.068	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Front	42	5210	98.76%	0.060	13.75	12.76					
ANT 6	Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Edge Top	42	5210	98.76%	0.050	13.75	12.76					
ANT 6	Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Edge Left	42	5210	98.76%	0.174	13.75	12.76					

**UNII-2C**

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Area Scan Max. SAR (W/kg)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 5	Head	802.11ac (VHT80)	Power State 1 Mode A	0	Left Cheek	122	5610	98.76%	0.115	20.00	18.26	0.111	0.168	0.045	0.068	
ANT 5	Head	802.11ac (VHT80)	Power State 1 Mode A	0	Left Tilt	122	5610	98.76%	0.048	20.00	18.26					
ANT 5	Head	802.11ac (VHT80)	Power State 1 Mode A	0	Right Cheek	122	5610	98.76%	0.033	20.00	18.26					
ANT 5	Head	802.11ac (VHT80)	Power State 1 Mode A	0	Right Tilt	122	5610	98.76%	0.054	20.00	18.26					
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Back	122	5610	98.76%	0.629	19.75	18.70	0.681	0.878	0.206	0.266	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Back	138	5690	98.76%	0.440	19.75	17.80	0.477	0.757	0.137	0.217	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Front	106	5530	98.76%	0.475	16.00	14.97	0.515	0.661	0.153	0.196	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Front	122	5610	98.76%	0.680	19.75	18.70	0.752	0.970	0.234	0.302	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Front	138	5690	98.76%	0.537	19.75	17.80	0.623	0.988	0.191	0.303	
ANT 5	Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Edge Bottom	122	5610	98.76%	0.192	19.75	18.70	0.205	0.264	0.065	0.084	
ANT 5	Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Edge Left	106	5530	98.76%	0.279	16.00	14.97	0.293	0.376	0.092	0.118	
ANT 5	Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Edge Left	122	5610	98.76%	0.827	19.75	18.70	0.881	1.136	0.279	0.360	109
ANT 5	Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Edge Left	138	5690	98.76%	0.563	19.75	17.80	0.602	0.955	0.191	0.303	
ANT 6	Head	802.11ac (VHT80)	Power State 1 Mode A	0	Left Cheek	138	5690	98.76%	0.209	20.00	18.50					
ANT 6	Head	802.11ac (VHT80)	Power State 1 Mode A	0	Left Tilt	138	5690	98.76%	0.229	20.00	18.50					
ANT 6	Head	802.11ac (VHT80)	Power State 1 Mode A	0	Right Cheek	138	5690	98.76%	0.405	20.00	18.50	0.490	0.701	0.165	0.236	110
ANT 6	Head	802.11ac (VHT80)	Power State 1 Mode A	0	Right Tilt	138	5690	98.76%	0.323	20.00	18.50	0.348	0.498	0.118	0.169	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Back	106	5530	98.76%	0.544	16.00	14.93	0.694	0.899	0.186	0.241	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Back	122	5610	98.76%	0.605	16.50	14.55	0.686	1.088	0.181	0.287	111
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Back	138	5690	98.76%	0.488	16.25	14.70	0.640	0.926	0.178	0.258	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Front	122	5610	98.76%	0.133	16.50	14.55	0.134	0.213	0.039	0.062	
ANT 6	Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Edge Top	122	5610	98.76%	0.106	16.50	14.55					
ANT 6	Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Edge Left	122	5610	98.76%	0.254	16.50	14.55	0.280	0.444	0.069	0.109	
ANT 5	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Left Cheek	122	5610	98.76%	0.061	18.50	17.01	0.058	0.083	0.018	0.026	
ANT 5	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Left Tilt	122	5610	98.76%	0.036	18.50	17.01					
ANT 5	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Right Cheek	122	5610	98.76%	0.021	18.50	17.01					
ANT 5	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Right Tilt	122	5610	98.76%	0.040	18.50	17.01					
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Back	106	5530	98.76%	0.323	15.75	14.67	0.345	0.448	0.096	0.125	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Front	106	5530	98.76%	0.289	15.75	14.67	0.305	0.396	0.087	0.113	
ANT 5	Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Edge Bottom	106	5530	98.76%	0.073	15.75	14.67					
ANT 5	Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Edge Left	106	5530	98.76%	0.281	15.75	14.67					
ANT 6	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Left Cheek	122	5610	98.76%	0.057	16.00	14.37					
ANT 6	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Left Tilt	122	5610	98.76%	0.059	16.00	14.37					
ANT 6	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Right Cheek	122	5610	98.76%	0.204	16.00	14.37	0.249	0.367	0.081	0.119	
ANT 6	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Right Tilt	122	5610	98.76%	0.146	16.00	14.37					
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Back	122	5610	98.76%	0.210	12.50	10.62	0.252	0.393	0.066	0.103	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Front	122	5610	98.76%	0.048	12.50	10.62					
ANT 6	Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Edge Top	122	5610	98.76%	0.032	12.50	10.62					
ANT 6	Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Edge Left	122	5610	98.76%	0.091	12.50	10.62					

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Area Scan Max. SAR (W/kg)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 5	Head	802.11ac (VHT80)	Power State 3 Mode A	0	Left Cheek	122	5610	98.76%	0.115	20.00	18.26	0.111	0.168	0.045	0.068	
ANT 5	Head	802.11ac (VHT80)	Power State 3 Mode A	0	Left Tilt	122	5610	98.76%	0.048	20.00	18.26					
ANT 5	Head	802.11ac (VHT80)	Power State 3 Mode A	0	Right Cheek	122	5610	98.76%	0.033	20.00	18.26					
ANT 5	Head	802.11ac (VHT80)	Power State 3 Mode A	0	Right Tilt	122	5610	98.76%	0.054	20.00	18.26					
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Back	122	5610	98.76%	0.629	19.25	18.70	0.681	0.783	0.206	0.237	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Back	138	5690	98.76%	0.440	19.25	17.80	0.477	0.674	0.137	0.194	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Front	106	5530	98.76%	0.475	16.00	14.97	0.515	0.662	0.153	0.197	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Front	122	5610	98.76%	0.680	19.25	18.70	0.752	0.864	0.234	0.269	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Front	138	5690	98.76%	0.537	19.25	17.80	0.623	0.881	0.191	0.270	
ANT 5	Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Edge Bottom	122	5610	98.76%	0.192	19.25	18.70	0.205	0.236	0.065	0.075	
ANT 5	Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Edge Left	106	5530	98.76%	0.279	16.00	14.97	0.293	0.377	0.092	0.118	
ANT 5	Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Edge Left	122	5610	98.76%	0.827	19.25	18.70	0.881	1.012	0.279	0.321	
ANT 5	Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Edge Left	138	5690	98.76%	0.563	19.25	17.80	0.602	0.851	0.191	0.270	
ANT 6	Head	802.11ac (VHT80)	Power State 3 Mode A	0	Left Cheek	138	5690	98.76%	0.209	19.50	18.50					
ANT 6	Head	802.11ac (VHT80)	Power State 3 Mode A	0	Left Tilt	138	5690	98.76%	0.229	19.50	18.50					
ANT 6	Head	802.11ac (VHT80)	Power State 3 Mode A	0	Right Cheek	138	5690	98.76%	0.405	19.50	18.50	0.490	0.625	0.165	0.210	
ANT 6	Head	802.11ac (VHT80)	Power State 3 Mode A	0	Right Tilt	138	5690	98.76%	0.323	19.50	18.50	0.348	0.444	0.118	0.150	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Back	106	5530	98.76%	0.544	16.00	14.93	0.694	0.900	0.186	0.241	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Back	122	5610	98.76%	0.605	16.00	14.55	0.686	0.970	0.181	0.256	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Back	138	5690	98.76%	0.488	15.75	14.70	0.640	0.825	0.178	0.230	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Front	122	5610	98.76%	0.133	16.00	14.55	0.134	0.189	0.039	0.055	
ANT 6	Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Edge Top	122	5610	98.76%	0.106	16.00	14.55					
ANT 6	Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Edge Left	122	5610	98.76%	0.254	16.00	14.55	0.280	0.396	0.069	0.098	
ANT 5	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Left Cheek	122	5610	98.76%	0.061	17.50	17.01	0.058	0.066	0.018	0.020	
ANT 5	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Left Tilt	122	5610	98.76%	0.036	17.50	17.01					
ANT 5	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Right Cheek	122	5610	98.76%	0.021	17.50	17.01					
ANT 5	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Right Tilt	122	5610	98.76%	0.040	17.50	17.01					
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Back	106	5530	98.76%	0.323	14.75	14.67	0.345	0.356	0.096	0.099	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Front	106	5530	98.76%	0.289	14.75	14.67	0.305	0.315	0.087	0.090	
ANT 5	Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Edge Bottom	106	5530	98.76%	0.073	14.75	14.67					
ANT 5	Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Edge Left	106	5530	98.76%	0.281	14.75	14.67					
ANT 6	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Left Cheek	122	5610	98.76%	0.057	15.00	14.37					
ANT 6	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Left Tilt	122	5610	98.76%	0.059	15.00	14.37					
ANT 6	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Right Cheek	122	5610	98.76%	0.204	15.00	14.37	0.249	0.292	0.081	0.095	
ANT 6	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Right Tilt	122	5610	98.76%	0.146	15.00	14.37					
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Back	122	5610	98.76%	0.210	11.50	10.62	0.252	0.312	0.066	0.082	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Front	122	5610	98.76%	0.048	11.50	10.62					
ANT 6	Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Edge Top	122	5610	98.76%	0.032	11.50	10.62					
ANT 6	Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Edge Left	122	5610	98.76%	0.091	11.50	10.62					

**UNII-3**

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Area Scan Max. SAR (W/kg)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 5	Head	802.11a	Power State 1 Mode A	0	Left Cheek	165	5825	99.37%	0.091	21.00	19.75	0.091	0.122	0.036	0.048	
ANT 5	Head	802.11a	Power State 1 Mode A	0	Left Tilt	165	5825	99.37%	0.042	21.00	19.75					
ANT 5	Head	802.11a	Power State 1 Mode A	0	Right Cheek	165	5825	99.37%	0.050	21.00	19.75					
ANT 5	Head	802.11a	Power State 1 Mode A	0	Right Tilt	165	5825	99.37%	0.051	21.00	19.75					
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Back	155	5775	98.76%	0.568	19.25	17.44	0.567	0.871	0.161	0.247	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Front	155	5775	98.76%	0.384	19.25	17.44	0.432	0.664	0.134	0.206	
ANT 5	Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Edge Bottom	155	5775	98.76%	0.108	19.25	17.44					
ANT 5	Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Edge Left	155	5775	98.76%	0.659	19.25	17.44	0.539	<b>0.828</b>	0.176	0.270	112
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Area Scan Max. SAR (W/kg)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 6	Head	802.11a	Power State 1 Mode A	0	Left Cheek	157	5785	99.37%	0.162	20.50	19.30					
ANT 6	Head	802.11a	Power State 1 Mode A	0	Left Tilt	157	5785	99.37%	0.185	20.50	19.30					
ANT 6	Head	802.11a	Power State 1 Mode A	0	Right Cheek	149	5745	99.37%	0.587	20.50	19.25	0.658	0.883	0.208	0.279	
ANT 6	Head	802.11a	Power State 1 Mode A	0	Right Cheek	157	5785	99.37%	0.697	20.50	19.30	0.749	0.994	0.238	0.316	
ANT 6	Head	802.11a	Power State 1 Mode A	0	Right Cheek	165	5825	99.37%	0.654	20.50	19.25	0.687	0.922	0.210	0.282	
ANT 6	Head	802.11a	Power State 1 Mode A	0	Right Tilt	157	5785	99.37%	0.362	20.50	19.30	0.377	0.500	0.111	0.147	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Back	155	5775	98.76%	0.577	16.25	14.60	0.678	<b>1.004</b>	0.192	0.284	113
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Front	155	5775	98.76%	0.127	16.25	14.60	0.091	0.135	0.024	0.036	
ANT 6	Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Edge Top	155	5775	98.76%	0.116	16.25	14.60					
ANT 6	Hotspot	802.11ac (VHT80)	Power State 1 Mode B	5	Edge Left	155	5775	98.76%	0.338	16.25	14.60	0.337	0.499	0.095	0.141	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Area Scan Max. SAR (W/kg)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 5	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Left Cheek	155	5775	98.76%	0.067	20.00	18.21	0.077	0.118	0.030	0.046	
ANT 5	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Left Tilt	155	5775	98.76%	0.030	20.00	18.21					
ANT 5	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Right Cheek	155	5775	98.76%	0.029	20.00	18.21					
ANT 5	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Right Tilt	155	5775	98.76%	0.043	20.00	18.21					
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Back	155	5775	98.76%	0.239	15.25	13.60	0.254	0.376	0.067	0.099	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Front	155	5775	98.76%	0.145	15.25	13.60					
ANT 5	Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Edge Bottom	155	5775	98.76%	0.044	15.25	13.60					
ANT 5	Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Edge Left	155	5775	98.76%	0.154	15.25	13.60					
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Area Scan Max. SAR (W/kg)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 6	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Left Cheek	155	5775	98.76%	0.071	16.50	15.20					
ANT 6	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Left Tilt	155	5775	98.76%	0.067	16.50	15.20					
ANT 6	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Right Cheek	155	5775	98.76%	0.183	16.50	15.20	0.334	0.456	0.101	0.138	
ANT 6	Head	802.11ac (VHT80)	Power State 2 Mode A	0	Right Tilt	155	5775	98.76%	0.147	16.50	15.20	0.185	0.253	0.054	0.074	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Back	155	5775	98.76%	0.240	12.25	10.80	0.265	0.375	0.071	0.100	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Front	155	5775	98.76%	0.036	12.25	10.80					
ANT 6	Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Edge Top	155	5775	98.76%	0.035	12.25	10.80					
ANT 6	Hotspot	802.11ac (VHT80)	Power State 2 Mode B	5	Edge Left	155	5775	98.76%	0.128	12.25	10.80					

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Area Scan Max. SAR (W/kg)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 5	Head	802.11a	Power State 3 Mode A	0	Left Cheek	165	5825	99.37%	0.091	21.00	19.75	0.091	0.122	0.036	0.048	
ANT 5	Head	802.11a	Power State 3 Mode A	0	Left Tilt	165	5825	99.37%	0.042	21.00	19.75					
ANT 5	Head	802.11a	Power State 3 Mode A	0	Right Cheek	165	5825	99.37%	0.050	21.00	19.75					
ANT 5	Head	802.11a	Power State 3 Mode A	0	Right Tilt	165	5825	99.37%	0.051	21.00	19.75					
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Back	155	5775	98.76%	0.568	18.75	17.44	0.567	0.776	0.161	0.220	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Front	155	5775	98.76%	0.384	18.75	17.44	0.432	0.591	0.134	0.183	
ANT 5	Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Edge Bottom	155	5775	98.76%	0.108	18.75	17.44					
ANT 5	Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Edge Left	155	5775	98.76%	0.659	18.75	17.44	0.539	0.738	0.176	0.241	
ANT 6	Head	802.11ac (VHT80)	Power State 3 Mode A	0	Left Cheek	155	5775	98.76%	0.274	20.00	18.64					
ANT 6	Head	802.11ac (VHT80)	Power State 3 Mode A	0	Left Tilt	155	5775	98.76%	0.358	20.00	18.64					
ANT 6	Head	802.11ac (VHT80)	Power State 3 Mode A	0	Right Cheek	155	5775	98.76%	0.620	20.00	18.64	0.777	1.076	0.250	0.346	114
ANT 6	Head	802.11ac (VHT80)	Power State 3 Mode A	0	Right Tilt	155	5775	98.76%	0.407	20.00	18.64	0.475	0.658	0.141	0.195	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Back	155	5775	98.76%	0.577	15.75	14.60	0.678	0.895	0.192	0.253	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Front	155	5775	98.76%	0.127	15.75	14.60	0.091	0.120	0.024	0.032	
ANT 6	Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Edge Top	155	5775	98.76%	0.116	15.75	14.60					
ANT 6	Hotspot	802.11ac (VHT80)	Power State 3 Mode B	5	Edge Left	155	5775	98.76%	0.338	15.75	14.60	0.337	0.445	0.095	0.125	
ANT 5	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Left Cheek	155	5775	98.76%	0.067	19.00	18.21	0.077	0.094	0.030	0.036	
ANT 5	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Left Tilt	155	5775	98.76%	0.030	19.00	18.21					
ANT 5	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Right Cheek	155	5775	98.76%	0.029	19.00	18.21					
ANT 5	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Right Tilt	155	5775	98.76%	0.043	19.00	18.21					
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Back	155	5775	98.76%	0.239	14.25	13.60	0.254	0.299	0.067	0.079	
ANT 5	Body & Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Front	155	5775	98.76%	0.145	14.25	13.60					
ANT 5	Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Edge Bottom	155	5775	98.76%	0.044	14.25	13.60					
ANT 5	Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Edge Left	155	5775	98.76%	0.154	14.25	13.60					
ANT 6	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Left Cheek	155	5775	98.76%	0.071	15.50	15.20					
ANT 6	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Left Tilt	155	5775	98.76%	0.067	15.50	15.20					
ANT 6	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Right Cheek	155	5775	98.76%	0.183	15.50	15.20	0.334	0.362	0.101	0.110	
ANT 6	Head	802.11ac (VHT80)	Power State 4 Mode A	0	Right Tilt	155	5775	98.76%	0.147	15.50	15.20	0.185	0.201	0.054	0.059	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Back	155	5775	98.76%	0.240	11.25	10.80	0.265	0.298	0.071	0.080	
ANT 6	Body & Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Front	155	5775	98.76%	0.036	11.25	10.80					
ANT 6	Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Edge Top	155	5775	98.76%	0.035	11.25	10.80					
ANT 6	Hotspot	802.11ac (VHT80)	Power State 4 Mode B	5	Edge Left	155	5775	98.76%	0.128	11.25	10.80					

### 10.39. Bluetooth 2.4GHz

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	GFSK (BDR)	PLow Mode A	0	Left Cheek	39	2441	15.5	14.08	0.003	0.004	0.000	0.000	
ANT 3	Head	GFSK (BDR)	PLow Mode A	0	Left Tilt	39	2441	15.5	14.08	0.001	0.001	0.000	0.000	
ANT 3	Head	GFSK (BDR)	PLow Mode A	0	Right Cheek	39	2441	15.5	14.08	0.001	0.001	0.000	0.000	
ANT 3	Head	GFSK (BDR)	PLow Mode A	0	Right Tilt	39	2441	15.5	14.08	0.001	0.001	0.000	0.000	
ANT 3	Body & Hotspot	GFSK (BDR)	PLow Mode B	5	Back	39	2441	11.5	10.68	0.038	0.046	0.016	0.019	
ANT 3	Body & Hotspot	GFSK (BDR)	PLow Mode B	5	Front	39	2441	11.5	10.68	0.032	0.039	0.013	0.016	
ANT 3	Hotspot	GFSK (BDR)	PLow Mode B	5	Edge Bottom	39	2441	11.5	10.68	0.014	0.017	0.006	0.007	
ANT 3	Hotspot	GFSK (BDR)	PLow Mode B	5	Edge Left	39	2441	11.5	10.68	0.037	0.045	0.015	0.018	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 4	Head	GFSK (BDR)	PLow Mode A	0	Left Cheek	78	2480	9.5	8.49	0.053	0.067	0.022	0.028	
ANT 4	Head	GFSK (BDR)	PLow Mode A	0	Left Tilt	78	2480	9.5	8.49	0.013	0.016	0.006	0.008	
ANT 4	Head	GFSK (BDR)	PLow Mode A	0	Right Cheek	78	2480	9.5	8.49	0.018	0.023	0.009	0.011	
ANT 4	Head	GFSK (BDR)	PLow Mode A	0	Right Tilt	78	2480	9.5	8.49	0.004	0.005	0.002	0.003	
ANT 4	Body & Hotspot	GFSK (BDR)	PLow Mode B	5	Back	78	2480	10.5	9.10	0.030	0.041	0.013	0.018	
ANT 4	Body & Hotspot	GFSK (BDR)	PLow Mode B	5	Front	78	2480	10.5	9.10	0.025	0.035	0.011	0.015	
ANT 4	Hotspot	GFSK (BDR)	PLow Mode B	5	Edge Top	78	2480	10.5	9.10	0.003	0.004	0.000	0.000	
ANT 4	Hotspot	GFSK (BDR)	PLow Mode B	5	Edge Right	78	2480	10.5	9.10	0.053	0.073	0.023	0.032	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Body & Hotspot	GFSK (BDR)	PHigh Mode B	5	Back	39	2441	17.5	15.90	0.157	0.227	0.071	0.103	
ANT 3	Body & Hotspot	GFSK (BDR)	PHigh Mode B	5	Front	39	2441	17.5	15.90	0.137	0.198	0.061	0.088	
ANT 3	Hotspot	GFSK (BDR)	PHigh Mode B	5	Edge Bottom	39	2441	17.5	15.90	0.072	0.104	0.035	0.051	
ANT 3	Hotspot	GFSK (BDR)	PHigh Mode B	5	Edge Left	39	2441	17.5	15.90	0.168	0.243	0.071	0.103	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 4	Head	GFSK (BDR)	PHigh Mode A	0	Left Cheek	78	2480	15.5	14.75	0.312	0.371	0.129	0.153	
ANT 4	Head	GFSK (BDR)	PHigh Mode A	0	Left Tilt	78	2480	15.5	14.75	0.078	0.093	0.039	0.046	
ANT 4	Head	GFSK (BDR)	PHigh Mode A	0	Right Cheek	78	2480	15.5	14.75	0.089	0.106	0.046	0.055	
ANT 4	Head	GFSK (BDR)	PHigh Mode A	0	Right Tilt	78	2480	15.5	14.75	0.026	0.031	0.014	0.017	
ANT 4	Body & Hotspot	GFSK (BDR)	PHigh Mode B	5	Back	39	2441	16.5	15.30	0.161	0.212	0.075	0.099	
ANT 4	Body & Hotspot	GFSK (BDR)	PHigh Mode B	5	Front	39	2441	16.5	15.30	0.168	0.221	0.073	0.096	
ANT 4	Hotspot	GFSK (BDR)	PHigh Mode B	5	Edge Top	39	2441	16.5	15.30	0.018	0.024	0.008	0.011	
ANT 4	Hotspot	GFSK (BDR)	PHigh Mode B	5	Edge Right	39	2441	16.5	15.30	0.285	0.376	0.123	0.162	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 3	Head	LE 1 Mbps	PStandalone Mode A	0	Left Cheek	19	2440	21.0	19.73	0.077	0.103	0.042	0.056	
ANT 3	Head	LE 1 Mbps	PStandalone Mode A	0	Left Tilt	19	2440	21.0	19.73	0.002	0.003	0.000	0.000	
ANT 3	Head	LE 1 Mbps	PStandalone Mode A	0	Right Cheek	19	2440	21.0	19.73	0.001	0.001	0.000	0.000	
ANT 3	Head	LE 1 Mbps	PStandalone Mode A	0	Right Tilt	19	2440	21.0	19.73	0.032	0.043	0.017	0.023	
ANT 3	Body & Hotspot	LE 1 Mbps	PStandalone Mode B	5	Back	19	2440	21.0	19.73	0.374	<b>0.501</b>	0.171	0.229	115
ANT 3	Body & Hotspot	LE 1 Mbps	PStandalone Mode B	5	Front	19	2440	21.0	19.73	0.346	0.464	0.157	0.210	
ANT 3	Hotspot	LE 1 Mbps	PStandalone Mode B	5	Edge Bottom	19	2440	21.0	19.73	0.171	0.229	0.085	0.114	
ANT 3	Hotspot	LE 1 Mbps	PStandalone Mode B	5	Edge Left	19	2440	21.0	19.73	0.386	0.517	0.168	0.225	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 4	Head	LE 1 Mbps	PStandalone Mode A	0	Left Cheek	0	2402	20.5	19.88	0.694	0.800	0.298	0.344	
ANT 4	Head	LE 1 Mbps	PStandalone Mode A	0	Left Cheek	19	2440	20.5	19.44	0.778	<b>0.993</b>	0.328	0.419	116
ANT 4	Head	LE 1 Mbps	PStandalone Mode A	0	Left Cheek	39	2480	20.5	19.74	0.713	0.849	0.306	0.365	
ANT 4	Head	LE 1 Mbps	PStandalone Mode A	0	Left Tilt	19	2440	20.5	19.44	0.177	0.226	0.094	0.120	
ANT 4	Head	LE 1 Mbps	PStandalone Mode A	0	Right Cheek	19	2440	20.5	19.44	0.217	0.277	0.115	0.147	
ANT 4	Head	LE 1 Mbps	PStandalone Mode A	0	Right Tilt	19	2440	20.5	19.44	0.069	0.088	0.038	0.049	
ANT 4	Body & Hotspot	LE 1 Mbps	PStandalone Mode B	5	Back	19	2440	20.5	19.44	0.283	0.361	0.132	0.168	
ANT 4	Body & Hotspot	LE 1 Mbps	PStandalone Mode B	5	Front	19	2440	20.5	19.44	0.350	0.447	0.161	0.206	
ANT 4	Hotspot	LE 1 Mbps	PStandalone Mode B	5	Edge Top	19	2440	20.5	19.44	0.045	0.057	0.020	0.026	
ANT 4	Hotspot	LE 1 Mbps	PStandalone Mode B	5	Edge Right	19	2440	20.5	19.44	0.582	<b>0.743</b>	0.254	0.324	117

**Note(s):**  
 ANT3 Power Mode A for PHigh is the same as PStandalone.

### 10.40. MSS (Mobile Satellite Service)

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 1	Body & Hotspot	1-PRB SC-FDMA	Mode B	5	Back	262391	1617.6	100.00%	22.7	21.9	0.595	0.715	0.331	0.398	
ANT 1	Body & Hotspot	1-PRB SC-FDMA	Mode B	5	Front	262391	1617.6	100.00%	22.7	21.9	0.430	0.517	0.233	0.280	
ANT 1	Hotspot	1-PRB SC-FDMA	Mode B	5	Edge Right	262391	1617.6	100.00%	22.7	21.9	0.345	0.415	0.163	0.196	
ANT 1	Hotspot	1-PRB SC-FDMA	Mode B	5	Edge Bottom	262316	1610.1	100.00%	22.7	21.6	0.602	0.776	0.307	0.395	
ANT 1	Hotspot	1-PRB SC-FDMA	Mode B	5	Edge Bottom	262391	1617.6	100.00%	22.7	21.9	0.683	0.821	0.348	0.418	
ANT 1	Hotspot	1-PRB SC-FDMA	Mode B	5	Edge Bottom	262466	1625.1	100.00%	22.7	21.7	0.656	<b>0.826</b>	0.330	0.415	118
ANT 1	Hotspot	1-PRB SC-FDMA	Mode B	5	Edge Left	262391	1617.6	100.00%	22.7	21.9	0.041	0.049	0.024	0.029	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Duty Cycle (%)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 4	Body & Hotspot	1-PRB SC-FDMA	Mode B	5	Back	262316	1610.1	100.00%	20.5	20.4	0.867	0.887	0.407	0.416	
ANT 4	Body & Hotspot	1-PRB SC-FDMA	Mode B	5	Back	262391	1617.6	100.00%	20.5	20.5	0.930	<b>0.930</b>	0.447	0.447	119
ANT 4	Body & Hotspot	1-PRB SC-FDMA	Mode B	5	Back	262466	1625.1	100.00%	20.5	20.3	0.861	0.902	0.408	0.427	
ANT 4	Body & Hotspot	1-PRB SC-FDMA	Mode B	5	Front	262391	1617.6	100.00%	20.5	20.5	0.601	0.601	0.288	0.288	
ANT 4	Hotspot	1-PRB SC-FDMA	Mode B	5	Edge Top	262391	1617.6	100.00%	20.5	20.5	0.013	0.013	0.008	0.008	
ANT 4	Hotspot	1-PRB SC-FDMA	Mode B	5	Edge Right	262391	1617.6	100.00%	20.5	20.5	0.746	0.746	0.329	0.329	

### 10.41. 802.15.4ab - NB

Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 5	Head	BPSK (O-QPSK)	Mode A	0	Left Cheek	18	5786.25	12.50	12.26	0.001	0.001	0.000	0.000	
ANT 5	Head	BPSK (O-QPSK)	Mode A	0	Left Tilt	18	5786.25	12.50	12.26	0.003	0.003	0.000	0.000	
ANT 5	Head	BPSK (O-QPSK)	Mode A	0	Right Cheek	18	5786.25	12.50	12.26	0.001	0.001	0.000	0.000	
ANT 5	Head	BPSK (O-QPSK)	Mode A	0	Right Tilt	18	5786.25	12.50	12.26	0.000	0.000	0.000	0.000	
ANT 5	Body & Hotspot	BPSK (O-QPSK)	Mode B	5	Back	18	5786.25	12.50	12.26	0.001	0.001	0.000	0.000	
ANT 5	Body & Hotspot	BPSK (O-QPSK)	Mode B	5	Front	18	5786.25	12.50	12.26	0.001	0.001	0.000	0.000	
ANT 5	Hotspot	BPSK (O-QPSK)	Mode B	5	Edge Bottom	18	5786.25	12.50	12.26	0.001	0.001	0.000	0.000	
ANT 5	Hotspot	BPSK (O-QPSK)	Mode B	5	Edge Left	18	5786.25	12.50	12.26	0.001	0.001	0.000	0.000	
Antenna	RF Exposure Condition	Mode	Power Mode	Dist (mm)	Test Position	Channel	Freq. (MHz)	Max Output Pwr (dBm)	Meas. (dBm)	1-g Meas. (W/kg)	1-g Scaled (W/kg)	10-g Meas. (W/kg)	10-g Scaled (W/kg)	Plot No.
ANT 6	Head	BPSK (O-QPSK)	Mode A	0	Left Cheek	18	5786.25	16.75	15.46	0.016	0.022	0.002	0.003	
ANT 6	Head	BPSK (O-QPSK)	Mode A	0	Left Tilt	18	5786.25	16.75	15.46	0.018	0.024	0.003	0.004	
ANT 6	Head	BPSK (O-QPSK)	Mode A	0	Right Cheek	18	5786.25	16.75	15.46	0.048	<b>0.065</b>	0.013	0.017	120
ANT 6	Head	BPSK (O-QPSK)	Mode A	0	Right Tilt	18	5786.25	16.75	15.46	0.033	0.044	0.006	0.008	
ANT 6	Body & Hotspot	BPSK (O-QPSK)	Mode B	5	Back	18	5786.25	15.25	14.73	0.079	<b>0.089</b>	0.021	0.024	121
ANT 6	Body & Hotspot	BPSK (O-QPSK)	Mode B	5	Front	18	5786.25	15.25	14.73	0.007	0.008	0.000	0.000	
ANT 6	Hotspot	BPSK (O-QPSK)	Mode B	5	Edge Top	18	5786.25	15.25	14.73	0.004	0.005	0.000	0.000	
ANT 6	Hotspot	BPSK (O-QPSK)	Mode B	5	Edge Left	18	5786.25	15.25	14.73	0.041	<b>0.046</b>	0.009	0.010	122

### 10.42. NFC

Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Freq. (MHz)	1-g Meas. (W/kg)	10-g Meas. (W/kg)	Plot No.
Primary Ant	Extremity	Type A	0	Rear	13.56	0.005	0.002	
Primary Ant				Front	13.56	0.009	0.004	
Primary Ant				Edge Top	13.56	0.014	<b>0.005</b>	123
Primary Ant				Edge Left	13.56	0.002	0.000	
Antenna	RF Exposure Condition	Mode	Dist (mm)	Test Position	Freq. (MHz)	1-g Meas. (W/kg)	10-g Meas. (W/kg)	Plot No.
Secondary Ant	Extremity	Type A	5	Rear	13.56	0.001	0.000	
Secondary Ant				Front	13.56	0.000	0.000	
Secondary Ant				Edge Right	13.56	0.000	0.000	
Secondary Ant				Edge Left	13.56	0.000	0.000	



## 11. SAR Measurement Variability

In accordance with published RF Exposure KDB 865664 D01 SAR measurement 100 MHz to 6 GHz. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

- 1) Repeated measurement is not required when the original highest measured SAR is  $< 0.8$  or  $2$  W/kg (1-g or 10-g respectively); steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is  $\geq 0.8$  or  $2$  W/kg (1-g or 10-g respectively), repeat that measurement once.
- 3) Perform a second repeated measurement only if the **ratio of largest to smallest SAR** for the original and first repeated measurements is  $> 1.20$  or when the original or repeated measurement is  $\geq 1.45$  or  $3.6$  W/kg ( $\sim 10\%$  from the 1-g or 10-g respective SAR limit).
- 4) Perform a third repeated measurement only if the original, first, or second repeated measurement is  $\geq 1.5$  or  $3.75$  W/kg (1-g or 10-g respectively) and the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ .

Frequency Band (MHz)	Air Interface	RF Exposure Conditions	Test Position	Repeated SAR (Yes/No)	Highest Measured SAR (W/kg)	First Repeated	
						Measured SAR (W/kg)	Largest to Smallest SAR Ratio
850	FR1 n26	Hotspot	Edge Right	Yes	0.855	0.760	1.13
1600	MSS	Body & Hotspot	Back	Yes	0.930	0.870	1.07
1700	WCDMA Band IV	Hotspot	Edge Top	Yes	0.885	0.840	1.05
2300	LTE Band 30	Head	Right Cheek	Yes	0.898	0.871	1.03
2400	FR1 n53	Body & Hotspot	Back	Yes	0.904	0.754	1.20
2500	FR1 n7	Head	Left Tilt	Yes	0.893	0.825	1.08
2600	FR1 n41	Head	Left Cheek	Yes	0.882	0.847	1.04
3600	FR1 n48	Head	Left Tilt	Yes	0.930	0.808	1.15
5200	Wi-Fi 802.11a/n/ac	Head	Right Cheek	Yes	0.832	0.813	1.02
5500	Wi-Fi 802.11a/n/ac	Hotspot	Edge Left	Yes	0.881	0.775	1.14

### Note(s):

Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is  $\leq 1.20$ .



## 12. Simultaneous Transmission Conditions

KDB 447498 D01 General RF Exposure Guidance provides two procedures for determining simultaneous transmission SAR test exclusion: Sum of SAR and SAR to Peak Location Ratio (SPLSR)

### Sum of SAR

To qualify for simultaneous transmission SAR test exclusion based upon Sum of SAR the sum of the reported standalone SARs for all simultaneously transmitting antennas shall be below the applicable standalone SAR limit. If the sum of the SARs is above the applicable limit then simultaneous transmission SAR test exclusion may still apply if the requirements of the SAR to Peak Location Ratio (SPLSR) evaluation are met.

### SAR to Peak Location Ratio (SPLSR)

KDB 447498 D01 General RF Exposure Guidance explains how to calculate the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

$$SPLSR = (SAR_1 + SAR_2)^{1.5} / Ri$$

Where:

**SAR<sub>1</sub>** is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

**SAR<sub>2</sub>** is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

**Ri** is the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of

$$[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$$

In order for a pair of simultaneous transmitting antennas with the sum of 1-g SAR > 1.6 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

$$(SAR_1 + SAR_2)^{1.5} / Ri \leq 0.04$$

When an individual antenna transmits at on two bands simultaneously, the sum of the highest *reported* SAR for the frequency bands should be used to determine **SAR<sub>1</sub>**, or **SAR<sub>2</sub>**. When SPLSR is necessary, the smallest distance between the peak SAR locations for the antenna pair with respect to the peaks from each antenna should be used.

The antennas in all antenna pairs that do not qualify for simultaneous transmission SAR test exclusion must be tested for SAR compliance, according to the enlarged zoom scan and volume scan post-processing procedures in KDB Publication 865664 D01

### Simultaneous transmission SAR measurement

When simultaneous transmission SAR measurements are required in different frequency bands not covered by a single probe calibration point then separate tests for each frequency band are performed. The tests are performed using enlarged zoom scans which are processed, by means of superposition, using the DASY volume scan post-processing procedures to determine the 1-g SAR for the aggregate SAR distribution.

The spatial resolution used for all enlarged zoom scans is the same as used for the most stringent zoom scans. I.E. the scan parameters required for the highest frequency assessed are used for all enlarged zoom scans. The scans cover the complete area of the device to ensure all transmitting antennas and radiating structures are assessed.

DASY provides the ability to perform Multiband Evaluations according to the latest standards using the Volume Scan job as well as appropriate routines for the post-processing.

In order to extract and process measurements within different frequency bands, the SEMCAD X Post-processor performs the combination and subsequent superposition of these measurement data via DASY = Combined MultiBand Averaged SAR.

Combined Multi Band Averaged SAR allows - in addition to the data extraction - an evaluation of the 1 g, 10 g and/or arbitrary averaged mass SAR.

Power Scaling Factor is used to allow the volume scans to be scaled by a value other than "1", this is important when the results need to be scaled to different maximum power levels. The Power Scaling Factor is applied to each individual point of the scan. When power scaling is used in multi-band combinations the scaling factor is applied to each individual point of the first scan, the second factor is then applied to each individual point of the second scan and so on. The scans are then combined.

**Simultaneous transmission SAR Exclusion**

According to KDB 248227 D01, simultaneous SAR provisions in KDB 447498 D01 apply to determine simultaneous transmission SAR test exclusion for Wi-Fi MIMO. If the sum of 1-g single transmission chain SAR measurements is <1.6W/kg and/or the MIMO output power is equal or less than a single chain, then no additional SAR measurements for simultaneously at the specified maximum output power of MIMO operation.

When antennas are spatially separated to the extent that SAR distributions do not overlap and can be treated independently, SAR compliance for simultaneous transmission is determined separately for each individual antenna.

In Airplay mode, the device uses same power and power control mechanism as Wi-Fi. Airplay is not supported in hotspot mode. Airplay utilize the same 802.11 modes, modulation, MIMO, Channel Bandwidth, etc. as Wi-Fi does. Therefore, Airplay usage is categorized by the Wi-Fi SAR testing contained in Section 10.

The simultaneous transmission possibilities for this device are listed as below.

RF Exposure Condition		Capable Transmit Configurations				Item		
Head  Body Worn Accessory  Hotspot	WWAN & 5G OFF (CELLULAR ANTENNAS OFF)	+	Wi-Fi 2.4 GHz		+	802.15.4 ab NB	1	
		+	Wi-Fi 5 GHz	+	Bluetooth (P <sub>High</sub> )		2	
		+	Wi-Fi 5 GHz		+	802.15.4 ab NB	3	
		+	Wi-Fi 5 GHz	+	Bluetooth (P <sub>High</sub> )	+	802.15.4 ab NB	4
	WWAN & 5G ON (CELLULAR ANTENNAS ON)	+	Wi-Fi 2.4 GHz				5	
				+	Bluetooth (P <sub>High</sub> )		6	
						+	802.15.4 ab NB	7
		+	Wi-Fi 2.4 GHz		+	802.15.4 ab NB	8	
				+	Bluetooth (P <sub>High</sub> )	+	802.15.4 ab NB	9
		+	Wi-Fi 5 GHz				10	
		+	Wi-Fi 5 GHz	+	Bluetooth (P <sub>Low</sub> )		11	
		+	Wi-Fi 5 GHz			+	802.15.4 ab NB	12
		+	Wi-Fi 5 GHz	+	Bluetooth (P <sub>Low</sub> )	+	802.15.4 ab NB	13

**Note(s):**

- Condition 3 is covered by condition 4.
- Condition 5 is covered by condition 8, condition 6 is covered by condition 9, and condition 7 is covered by either conditions 8 or 9.
- Conditions 10, 11, and 12 are covered by condition 13.
- Wi-Fi 2.4GHz & Bluetooth cannot transmit simultaneously.
- Wi-Fi 2.4GHz & Wi-Fi 5GHz cannot transmit simultaneously.
- WWAN antennas cannot transmit simultaneously.
- 802.14.4ab-NB can transmit simultaneously with Wi-Fi 5 GHz.
- 802.14.4ab-NB cannot transmit simultaneously on ANT 5 and ANT 6.
- Only Wi-Fi 2.4GHz, Wi-Fi 5GHz and BT TxBF support MIMO transmission.
- Wi-Fi 2.4/5 GHz Power State 1: 802.15.4ab-NB<sub>OFF</sub> | CELL<sub>OFF</sub>
- Wi-Fi 2.4/5 GHz Power State 2: 802.15.4ab-NB<sub>OFF</sub> | CELL<sub>ON</sub>
- Wi-Fi 2.4/5 GHz Power State 3: 802.15.4ab-NB<sub>ON</sub> | CELL<sub>OFF</sub>
- Wi-Fi 2.4/5 GHz Power State 4: 802.15.4ab-NB<sub>ON</sub> | CELL<sub>ON</sub>
- Bluetooth P<sub>low</sub> is used with Wi-Fi and WWAN antennas are active.
- Bluetooth P<sub>high</sub> is used when Wi-Fi antenna is active and WWAN antenna is inactive or with Wi-Fi inactive and WWAN antenna is active.
- Bluetooth P<sub>standalone</sub> is used with Wi-Fi and WWAN antennas are inactive.
- Wi-Fi SISO mode SAR result can also represent for MIMO mode SAR and is used for MIMO mode simultaneous transmission analysis because antennas are not overlapping, and the MIMO mode maximum power is equal or less than SISO mode.
- For EN-DC mode, Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G(LTE) and time-averaged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G NR operation is demonstrated in the Part 2 Report during algorithm validation. In Part 1 Report, simultaneous transmission compliance was evaluated individually with other Radios (WLAN or BT) using one of 4G or 5G NR. Wi-Fi 2.4GHz & Bluetooth cannot transmit simultaneously.

### 12.1. WWAN<sub>Cell-off</sub> & Wi-Fi Power State 1 & BT

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		1	2	3	4	1+3	1+4	2+3	2+4
		Wi-Fi 5G Pstate 1 ANT5	Wi-Fi 5G Pstate 1 ANT6	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4				
Head	Left Cheek	0.168	0.818	0.103	0.371	0.271	0.539	0.921	1.188
	Left Tilt	0.118	0.818	0.003	0.093	0.121	0.211	0.820	0.910
	Right Cheek	0.118	1.003	0.001	0.106	0.119	0.224	1.005	1.109
	Right Tilt	0.118	0.818	0.043	0.031	0.161	0.149	0.860	0.848
Body-worn & Hotspot	Back	0.878	1.088	0.227	0.212	1.105	1.090	1.315	1.301
	Front	0.988	0.382	0.198	0.221	1.186	1.210	0.580	0.604
Hotspot	Edge Top		0.382		0.024	0.000	0.024	0.382	0.406
	Edge Right				0.376	0.000	0.376	0.000	0.376
	Edge Bottom	0.264		0.104		0.368	0.264	0.104	0.000
	Edge Left	1.136	0.816	0.243		1.379	1.136	1.059	0.816

### 12.2. WWAN<sub>Cell-off</sub> & Wi-Fi Power State 3 & BT & 802.15.4ab NB

RF Exposure conditions	Test Position	Standalone SAR (W/kg)				Σ 1-g SAR (W/kg)			
		1	2	3	4	1+3	1+4	2+3	2+4
		Wi-Fi 2.4G Pstate 3 ANT3	Wi-Fi 2.4G Pstate 3 ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6				
Head	Left Cheek	0.164	1.113	0.001	0.022	0.165	0.185	1.114	1.134
	Left Tilt	0.164	0.422	0.003	0.024	0.167	0.188	0.425	0.446
	Right Cheek	0.164	0.422	0.001	0.065	0.165	0.228	0.423	0.487
	Right Tilt	0.164	0.422	0.001	0.044	0.165	0.208	0.423	0.467
Body-worn & Hotspot	Back	0.858	0.695	0.001	0.089	0.859	0.947	0.696	0.784
	Front	0.521	0.472	0.001	0.008	0.522	0.529	0.474	0.480
Hotspot	Edge Top		0.472		0.005	0.000	0.005	0.472	0.477
	Edge Right		1.094			0.000	0.000	1.094	1.094
	Edge Bottom	0.521		0.001		0.522	0.521	0.001	0.000
	Edge Left	0.926		0.001	0.046	0.928	0.973	0.001	0.046

RF Exposure conditions	Test Position	Standalone SAR (W/kg)						Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	1+3+5	1+3+6	1+4+5	1+4+6	2+3+5	2+3+6	2+4+5	2+4+6
		Wi-Fi 5G Pstate 3 ANT5	Wi-Fi 5G Pstate 3 ANT6	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.168	0.818	0.103	0.371	0.001	0.022	0.272	0.293	0.540	0.560	0.923	0.943	1.190	1.211
	Left Tilt	0.118	0.818	0.003	0.093	0.003	0.024	0.124	0.145	0.214	0.235	0.824	0.845	0.914	0.935
	Right Cheek	0.118	1.076	0.001	0.106	0.001	0.065	0.120	0.184	0.225	0.288	1.078	1.142	1.183	1.246
	Right Tilt	0.118	0.818	0.043	0.031	0.001	0.044	0.162	0.205	0.150	0.193	0.862	0.906	0.850	0.894
Body-worn & Hotspot	Back	0.819	0.970	0.227	0.212	0.001	0.089	1.047	1.135	1.033	1.120	1.198	1.286	1.184	1.271
	Front	0.881	0.341	0.198	0.221	0.001	0.008	1.080	1.087	1.104	1.110	0.540	0.547	0.564	0.570
Hotspot	Edge Top		0.341		0.024		0.005	0.000	0.005	0.024	0.028	0.341	0.345	0.365	0.369
	Edge Right				0.376			0.000	0.000	0.376	0.376	0.000	0.000	0.376	0.376
	Edge Bottom	0.236		0.104		0.001		0.341	0.340	0.237	0.236	0.105	0.104	0.001	0.000
	Edge Left	1.012	0.727	0.243		0.001	0.046	1.257	1.302	1.014	1.059	0.972	1.016	0.729	0.774

### 12.3. WWAN(TNE)Cell-on ANT1 & Wi-Fi Power State 2 & BT & 802.15.4ab NB

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2	1+3	1+4	1+5
		WWAN Cell-on ANT1	Wi-Fi 2.4G Pstate 2 ANT3	Wi-Fi 2.4G Pstate 2 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4				
Head	Left Cheek	0.071	0.165	0.551	0.103	0.371	0.236	0.622	0.174	0.442
	Left Tilt	0.077	0.165	0.167	0.003	0.093	0.242	0.244	0.079	0.169
	Right Cheek	0.151	0.165	0.167	0.001	0.106	0.316	0.318	0.152	0.257
	Right Tilt	0.060	0.165	0.167	0.043	0.031	0.226	0.227	0.103	0.091
Body-worn & Hotspot	Back	0.715	0.402	0.317	0.227	0.212	1.117	1.033	0.942	0.928
	Front	0.589	0.254	0.317	0.198	0.221	0.843	0.906	0.787	0.810
Hotspot	Edge Top			0.317		0.024	0.000	0.317	0.000	0.024
	Edge Right	0.842		0.538		0.376	0.842	1.380	0.842	1.218
	Edge Bottom	0.826	0.254		0.104		1.080	0.826	0.930	0.826
	Edge Left	0.049	0.332		0.243		0.382	0.049	0.292	0.049

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2+4	1+2+5	1+3+4	1+3+5
		WWAN Cell-on ANT1	Wi-Fi 5G Pstate 2 ANT5	Wi-Fi 5G Pstate 2 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4				
Head	Left Cheek	0.071	0.118	0.432	0.004	0.067	0.193	0.256	0.508	0.570
	Left Tilt	0.077	0.092	0.432	0.001	0.016	0.170	0.185	0.511	0.526
	Right Cheek	0.151	0.092	0.456	0.001	0.023	0.244	0.265	0.609	0.630
	Right Tilt	0.060	0.092	0.432	0.001	0.005	0.153	0.157	0.494	0.498
Body-worn & Hotspot	Back	0.715	0.448	0.393	0.046	0.041	1.209	1.205	1.155	1.150
	Front	0.589	0.396	0.393	0.039	0.035	1.023	1.019	1.021	1.017
Hotspot	Edge Top			0.393		0.004	0.000	0.004	0.393	0.398
	Edge Right	0.842				0.073	0.842	0.916	0.842	0.916
	Edge Bottom	0.826	0.396		0.017		1.239	1.222	0.843	0.826
	Edge Left	0.049	0.396	0.393	0.045		0.490	0.445	0.487	0.443

### 12.4. WWAN(TNE)Cell-on ANT1 & Wi-Fi Power State 4 & BT & 802.15.4ab NB

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+6	1+2+7	1+3+6	1+3+7	1+4+6	1+4+7	1+5+6	1+5+7
		WWAN Cell-on ANT1	Wi-Fi 2.4G Pstate 4 ANT3	Wi-Fi 2.4G Pstate 4 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.071	0.156	0.499	0.103	0.371	0.001	0.022	0.228	0.249	0.571	0.592	0.175	0.196	0.443	0.463
	Left Tilt	0.077	0.156	0.170	0.003	0.093	0.003	0.024	0.236	0.257	0.250	0.271	0.083	0.104	0.173	0.194
	Right Cheek	0.151	0.156	0.170	0.001	0.106	0.001	0.065	0.308	0.372	0.322	0.386	0.153	0.217	0.258	0.321
	Right Tilt	0.060	0.156	0.170	0.043	0.031	0.001	0.044	0.218	0.261	0.231	0.275	0.104	0.148	0.092	0.136
Body-worn & Hotspot	Back	0.715	0.265	0.306	0.227	0.212	0.001	0.089	0.982	1.070	1.023	1.111	0.944	1.031	0.929	1.017
	Front	0.589	0.265	0.306	0.198	0.221	0.001	0.008	0.855	0.862	0.896	0.903	0.788	0.795	0.811	0.818
Hotspot	Edge Top			0.306		0.024		0.005	0.000	0.005	0.306	0.311	0.000	0.005	0.024	0.028
	Edge Right	0.842		0.445		0.376			0.842	0.842	1.288	1.288	0.842	0.842	1.218	1.218
	Edge Bottom	0.826	0.265		0.104		0.001		1.092	1.091	0.827	0.826	0.931	0.930	0.827	0.826
	Edge Left	0.049	0.312		0.243		0.001	0.046	0.363	0.408	0.051	0.096	0.293	0.338	0.051	0.096

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+4+6	1+2+4+7	1+3+4+6	1+3+4+7	1+2+5+6	1+2+5+7	1+3+5+6	1+3+5+7
		WWAN Cell-on ANT1	Wi-Fi 5G Pstate 4 ANT5	Wi-Fi 5G Pstate 4 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.071	0.094	0.344	0.004	0.067	0.001	0.022	0.170	0.190	0.420	0.503	0.167	0.253	0.482	0.503
	Left Tilt	0.077	0.077	0.344	0.001	0.016	0.003	0.024	0.158	0.179	0.425	0.461	0.160	0.194	0.440	0.461
	Right Cheek	0.151	0.077	0.362	0.001	0.023	0.001	0.065	0.230	0.294	0.516	0.601	0.230	0.315	0.537	0.601
	Right Tilt	0.060	0.077	0.344	0.001	0.005	0.001	0.044	0.140	0.183	0.406	0.453	0.139	0.187	0.410	0.453
Body-worn & Hotspot	Back	0.715	0.356	0.312	0.046	0.041	0.001	0.089	1.118	1.206	1.075	1.158	1.074	1.202	1.071	1.158
	Front	0.589	0.315	0.312	0.039	0.035	0.001	0.008	0.943	0.950	0.941	0.944	0.906	0.946	0.937	0.944
Hotspot	Edge Top			0.312		0.004		0.005	0.000	0.005	0.312	0.321	0.000	0.009	0.317	0.321
	Edge Right	0.842				0.073			0.842	0.842	0.842	0.916	0.842	0.916	0.916	0.916
	Edge Bottom	0.826	0.315		0.017		0.001		1.159	1.157	0.844	0.826	1.143	1.140	0.827	0.826
	Edge Left	0.049	0.315	0.312	0.045		0.001	0.046	0.410	0.455	0.408	0.408	0.367	0.410	0.363	0.408

### 12.5. WWAN(TNE)<sub>Cell-on</sub> ANT2 & Wi-Fi Power State 2 & BT & 802.15.4ab NB

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2	1+3	1+4	1+5
		WWAN Cell-on ANT2	Wi-Fi 2.4G Pstate 2 ANT3	Wi-Fi 2.4G Pstate 2 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4				
Head	Left Cheek	0.815	0.165	0.551	0.103	0.371	0.980	1.366	0.918	1.185
	Left Tilt	0.898	0.165	0.167	0.003	0.093	1.063	1.065	0.900	0.990
	Right Cheek	0.724	0.165	0.167	0.001	0.106	0.889	0.891	0.725	0.829
	Right Tilt	0.649	0.165	0.167	0.043	0.031	0.814	0.815	0.691	0.679
Body-worn & Hotspot	Back	0.925	0.402	0.317	0.227	0.212	1.327	1.242	1.152	1.137
	Front	0.336	0.254	0.317	0.198	0.221	0.590	0.654	0.534	0.558
Hotspot	Edge Top	0.678		0.317		0.024	0.678	0.996	0.678	0.702
	Edge Right	0.053		0.538		0.376	0.053	0.590	0.053	0.428
	Edge Bottom		0.254		0.104		0.254	0.000	0.104	0.000
	Edge Left	0.463	0.332		0.243		0.795	0.463	0.706	0.463

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2+4	1+2+5	1+3+4	1+3+5
		WWAN Cell-on ANT2	Wi-Fi 5G Pstate 2 ANT5	Wi-Fi 5G Pstate 2 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4				
Head	Left Cheek	0.815	0.118	0.432	0.004	0.067	0.936	0.999	1.251	1.314
	Left Tilt	0.898	0.092	0.432	0.001	0.016	0.991	1.006	1.331	1.346
	Right Cheek	0.724	0.092	0.456	0.001	0.023	0.817	0.838	1.181	1.203
	Right Tilt	0.649	0.092	0.432	0.001	0.005	0.741	0.745	1.082	1.086
Body-worn & Hotspot	Back	0.925	0.448	0.393	0.046	0.041	1.419	1.414	1.364	1.360
	Front	0.336	0.396	0.393	0.039	0.035	0.771	0.767	0.768	0.764
Hotspot	Edge Top	0.678		0.393		0.004	0.678	0.682	1.072	1.076
	Edge Right	0.053				0.073	0.053	0.126	0.053	0.126
	Edge Bottom		0.396		0.017		0.413	0.396	0.017	0.000
	Edge Left	0.463	0.396	0.393	0.045		0.904	0.859	0.901	0.856

### 12.6. WWAN(TNE)<sub>Cell-on</sub> ANT2 & Wi-Fi Power State 4 & BT & 802.15.4ab NB

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+6	1+2+7	1+3+6	1+3+7	1+4+6	1+4+7	1+5+6	1+5+7
		WWAN Cell-on ANT2	Wi-Fi 2.4G Pstate 4 ANT3	Wi-Fi 2.4G Pstate 4 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.815	0.156	0.499	0.103	0.371	0.001	0.022	0.972	0.992	1.315	1.336	0.919	0.939	1.186	1.207
	Left Tilt	0.898	0.156	0.170	0.003	0.093	0.003	0.024	1.057	1.078	1.071	1.092	0.903	0.925	0.993	1.015
	Right Cheek	0.724	0.156	0.170	0.001	0.106	0.001	0.065	0.881	0.944	0.895	0.958	0.726	0.790	0.831	0.894
	Right Tilt	0.649	0.156	0.170	0.043	0.031	0.001	0.044	0.806	0.849	0.820	0.863	0.692	0.736	0.680	0.724
Body-worn & Hotspot	Back	0.925	0.265	0.306	0.227	0.212	0.001	0.089	1.192	1.279	1.233	1.321	1.153	1.241	1.139	1.226
	Front	0.336	0.265	0.306	0.198	0.221	0.001	0.008	0.603	0.609	0.644	0.650	0.535	0.542	0.559	0.565
Hotspot	Edge Top	0.678		0.306		0.024		0.005	0.678	0.683	0.985	0.989	0.678	0.683	0.702	0.707
	Edge Right	0.053		0.445		0.376			0.053	0.053	0.498	0.498	0.053	0.053	0.428	0.428
	Edge Bottom		0.265		0.104		0.001		0.267	0.265	0.001	0.000	0.105	0.104	0.001	0.000
	Edge Left	0.463	0.312		0.243		0.001	0.046	0.776	0.821	0.464	0.509	0.707	0.752	0.464	0.509

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+4+6	1+2+4+7	1+3+4+6	1+3+4+7	1+2+5+6	1+2+5+7	1+3+5+6	1+3+5+7
		WWAN Cell-on ANT2	Wi-Fi 5G Pstate 4 ANT5	Wi-Fi 5G Pstate 4 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.815	0.094	0.344	0.004	0.067	0.001	0.022	0.913	0.934	1.163	1.247	0.910	0.997	1.226	1.247
	Left Tilt	0.898	0.077	0.344	0.001	0.016	0.003	0.024	0.979	1.000	1.246	1.282	0.981	1.015	1.261	1.282
	Right Cheek	0.724	0.077	0.362	0.001	0.023	0.001	0.065	0.803	0.867	1.089	1.173	0.803	0.888	1.110	1.173
	Right Tilt	0.649	0.077	0.344	0.001	0.005	0.001	0.044	0.728	0.771	0.994	1.042	0.728	0.775	0.998	1.042
Body-worn & Hotspot	Back	0.925	0.356	0.312	0.046	0.041	0.001	0.089	1.328	1.416	1.285	1.368	1.264	1.411	1.280	1.368
	Front	0.336	0.315	0.312	0.039	0.035	0.001	0.008	0.691	0.697	0.689	0.691	0.653	0.693	0.684	0.691
Hotspot	Edge Top	0.678		0.312		0.004		0.005	0.678	0.683	0.991	0.999	0.678	0.687	0.995	0.999
	Edge Right	0.053				0.073			0.053	0.053	0.053	0.126	0.053	0.126	0.126	0.126
	Edge Bottom		0.315		0.017		0.001		0.333	0.331	0.018	0.000	0.317	0.315	0.001	0.000
	Edge Left	0.463	0.315	0.312	0.045		0.001	0.046	0.823	0.868	0.821	0.822	0.780	0.824	0.777	0.822

### 12.7. WWAN(TNE)Cell-on ANT4 & Wi-Fi Power State 2 & BT & 802.15.4ab NB

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2	1+3	1+4	1+5
		WWAN Cell-on ANT4	Wi-Fi 2.4G Pstate 2 ANT3	Wi-Fi 2.4G Pstate 2 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4				
Body-worn & Hotspot	Back	0.930	0.402	0.317	0.227	0.212	1.332	1.247	1.157	1.142
	Front	0.601	0.254	0.317	0.198	0.221	0.855	0.918	0.799	0.822
Hotspot	Edge Top	0.013		0.317		0.024	0.013	0.330	0.013	0.037
	Edge Right	0.746		0.538		0.376	0.746	1.284	0.746	1.122
	Edge Bottom		0.254		0.104		0.254	0.000	0.104	0.000
	Edge Left		0.332		0.243		0.332	0.000	0.243	0.000
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2+4	1+2+5	1+3+4	1+3+5
		WWAN Cell-on ANT4	Wi-Fi 5G Pstate 2 ANT5	Wi-Fi 5G Pstate 2 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4				
Body-worn & Hotspot	Back	0.930	0.448	0.393	0.046	0.041	1.424	1.419	1.369	1.365
	Front	0.601	0.396	0.393	0.039	0.035	1.036	1.032	1.033	1.029
Hotspot	Edge Top	0.013		0.393		0.004	0.013	0.017	0.406	0.411
	Edge Right	0.746				0.073	0.746	0.819	0.746	0.819
	Edge Bottom		0.396		0.017		0.413	0.396	0.017	0.000
	Edge Left		0.396	0.393	0.045		0.441	0.396	0.438	0.393

### 12.8. WWAN(TNE)Cell-on ANT4 & Wi-Fi Power State 4 & BT & 802.15.4ab NB

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+6	1+2+7	1+3+6	1+3+7	1+4+6	1+4+7	1+5+6	1+5+7
		WWAN Cell-on ANT4	Wi-Fi 2.4G Pstate 4 ANT3	Wi-Fi 2.4G Pstate 4 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek		0.156	0.499	0.103	0.371	0.001	0.022	0.157	0.178	0.500	0.521	0.104	0.125	0.372	0.392
	Left Tilt		0.156	0.170	0.003	0.093	0.003	0.024	0.159	0.180	0.173	0.194	0.006	0.027	0.096	0.117
	Right Cheek		0.156	0.170	0.001	0.106	0.001	0.065	0.157	0.221	0.171	0.235	0.002	0.066	0.107	0.170
	Right Tilt		0.156	0.170	0.043	0.031	0.001	0.044	0.157	0.201	0.171	0.214	0.044	0.087	0.032	0.075
Body-worn & Hotspot	Back	0.930	0.265	0.306	0.227	0.212	0.001	0.089	1.197	1.284	1.238	1.325	1.158	1.246	1.144	1.231
	Front	0.601	0.265	0.306	0.198	0.221	0.001	0.008	0.868	0.874	0.909	0.915	0.800	0.807	0.824	0.830
Hotspot	Edge Top	0.013		0.306		0.024		0.005	0.013	0.018	0.319	0.324	0.013	0.018	0.037	0.041
	Edge Right	0.746		0.445		0.376			0.746	0.746	1.191	1.191	0.746	0.746	1.122	1.122
	Edge Bottom		0.265		0.104		0.001		0.267	0.265	0.001	0.000	0.105	0.104	0.001	0.000
	Edge Left		0.312		0.243		0.001	0.046	0.314	0.358	0.001	0.046	0.244	0.289	0.001	0.046
RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+4+6	1+2+4+7	1+3+4+6	1+3+4+7	1+2+5+6	1+2+5+7	1+3+5+6	1+3+5+7
		WWAN Cell-on ANT4	Wi-Fi 5G Pstate 4 ANT5	Wi-Fi 5G Pstate 4 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek		0.094	0.344	0.004	0.067	0.001	0.022	0.099	0.119	0.349	0.432	0.096	0.182	0.411	0.432
	Left Tilt		0.077	0.344	0.001	0.016	0.003	0.024	0.082	0.103	0.348	0.384	0.083	0.118	0.363	0.384
	Right Cheek		0.077	0.362	0.001	0.023	0.001	0.065	0.079	0.143	0.365	0.450	0.079	0.164	0.386	0.450
	Right Tilt		0.077	0.344	0.001	0.005	0.001	0.044	0.079	0.123	0.346	0.393	0.079	0.126	0.350	0.393
Body-worn & Hotspot	Back	0.930	0.315	0.312	0.039	0.041	0.001	0.089	1.333	1.421	1.290	1.373	1.289	1.416	1.285	1.373
	Front	0.601	0.315	0.312	0.039	0.035	0.001	0.008	0.956	0.962	0.953	0.956	0.918	0.958	0.949	0.956
Hotspot	Edge Top	0.013		0.312		0.004		0.005	0.013	0.018	0.325	0.334	0.013	0.022	0.330	0.334
	Edge Right	0.746				0.073			0.746	0.746	0.746	0.819	0.746	0.819	0.819	0.819
	Edge Bottom		0.315		0.017		0.001		0.333	0.331	0.018	0.000	0.317	0.315	0.001	0.000
	Edge Left		0.315	0.312	0.045		0.001	0.046	0.361	0.405	0.359	0.359	0.317	0.361	0.314	0.359

### 12.9. WWAN(PCE)<sub>Cell-on</sub> ANT1 & Wi-Fi Power State 2 & BT & 802.15.4ab NB

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2	1+3	1+4	1+5
		WWAN Cell-on ANT1	Wi-Fi 2.4G Pstate 2 ANT3	Wi-Fi 2.4G Pstate 2 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4				
Head	Left Cheek	0.264	0.165	0.551	0.103	0.371	0.430	0.816	0.368	0.635
	Left Tilt	0.228	0.165	0.167	0.003	0.093	0.393	0.395	0.230	0.320
	Right Cheek	0.382	0.165	0.167	0.001	0.106	0.547	0.549	0.383	0.488
	Right Tilt	0.233	0.165	0.167	0.043	0.031	0.398	0.399	0.275	0.263
Body-worn & Hotspot	Back	0.950	0.402	0.317	0.227	0.212	1.352	1.268	1.177	1.163
	Front	0.683	0.254	0.317	0.198	0.221	0.937	1.001	0.881	0.905
Hotspot	Edge Top			0.317		0.024	0.000	0.317	0.000	0.024
	Edge Right	0.942		0.538		0.376	0.942	1.480	0.942	1.317
	Edge Bottom	0.939	0.254		0.104		1.193	0.939	1.043	0.939
	Edge Left	0.402	0.332		0.243		0.735	0.402	0.645	0.402
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2+4	1+2+5	1+3+4	1+3+5
		WWAN Cell-on ANT1	Wi-Fi 5G Pstate 2 ANT5	Wi-Fi 5G Pstate 2 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4				
Head	Left Cheek	0.264	0.118	0.432	0.004	0.067	0.386	0.449	0.701	0.764
	Left Tilt	0.228	0.092	0.432	0.001	0.016	0.321	0.336	0.662	0.677
	Right Cheek	0.382	0.092	0.456	0.001	0.023	0.475	0.496	0.839	0.861
	Right Tilt	0.233	0.092	0.432	0.001	0.005	0.325	0.329	0.666	0.670
Body-worn & Hotspot	Back	0.950	0.448	0.393	0.046	0.041	1.444	1.440	1.390	1.385
	Front	0.683	0.396	0.393	0.039	0.035	1.118	1.114	1.115	1.111
Hotspot	Edge Top			0.393		0.004	0.000	0.004	0.393	0.398
	Edge Right	0.942				0.073	0.942	1.015	0.942	1.015
	Edge Bottom	0.939	0.396		0.017		1.352	1.335	0.956	0.939
	Edge Left	0.402	0.396	0.393	0.045		0.843	0.798	0.840	0.796

### 12.10. WWAN(PCE)<sub>Cell-on</sub> ANT1 & Wi-Fi Power State 4 & BT & 802.15.4ab NB

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+6	1+2+7	1+3+6	1+3+7	1+4+6	1+4+7	1+5+6	1+5+7
		WWAN Cell-on ANT1	Wi-Fi 2.4G Pstate 4 ANT3	Wi-Fi 2.4G Pstate 4 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.264	0.156	0.499	0.103	0.371	0.001	0.022	0.422	0.442	0.765	0.785	0.369	0.389	0.636	0.657
	Left Tilt	0.228	0.156	0.170	0.003	0.093	0.003	0.024	0.387	0.408	0.401	0.422	0.234	0.255	0.324	0.345
	Right Cheek	0.382	0.156	0.170	0.001	0.106	0.001	0.065	0.539	0.603	0.553	0.616	0.384	0.448	0.489	0.552
	Right Tilt	0.233	0.156	0.170	0.043	0.031	0.001	0.044	0.390	0.433	0.404	0.447	0.276	0.320	0.264	0.308
Body-worn & Hotspot	Back	0.950	0.265	0.306	0.227	0.212	0.001	0.089	1.217	1.305	1.258	1.346	1.179	1.266	1.164	1.252
	Front	0.683	0.265	0.306	0.198	0.221	0.001	0.008	0.950	0.956	0.991	0.997	0.883	0.889	0.906	0.913
Hotspot	Edge Top			0.306		0.024		0.005	0.000	0.005	0.306	0.311	0.000	0.005	0.024	0.028
	Edge Right	0.942		0.445		0.376		0.000	0.942	0.942	1.387	1.387	0.942	0.942	1.317	1.317
	Edge Bottom	0.939	0.265		0.104		0.001		1.206	1.204	0.940	0.939	1.045	1.043	0.940	0.939
	Edge Left	0.402	0.312		0.243		0.001	0.046	0.716	0.761	0.404	0.449	0.646	0.691	0.404	0.449
RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+4+6	1+2+4+7	1+3+4+6	1+3+4+7	1+2+5+6	1+2+5+7	1+3+5+6	1+3+5+7
		WWAN Cell-on ANT1	Wi-Fi 5G Pstate 4 ANT5	Wi-Fi 5G Pstate 4 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.264	0.094	0.344	0.004	0.067	0.001	0.022	0.363	0.384	0.613	0.634	0.360	0.446	0.676	0.696
	Left Tilt	0.228	0.077	0.344	0.001	0.016	0.003	0.024	0.309	0.330	0.576	0.597	0.311	0.345	0.591	0.612
	Right Cheek	0.382	0.077	0.362	0.001	0.023	0.001	0.065	0.461	0.525	0.747	0.810	0.461	0.546	0.768	0.831
	Right Tilt	0.233	0.077	0.344	0.001	0.005	0.001	0.044	0.312	0.355	0.578	0.622	0.312	0.359	0.582	0.626
Body-worn & Hotspot	Back	0.950	0.356	0.312	0.046	0.041	0.001	0.089	1.354	1.441	1.310	1.398	1.309	1.437	1.306	1.393
	Front	0.683	0.315	0.312	0.039	0.035	0.001	0.008	1.038	1.044	1.036	1.042	1.000	1.040	1.031	1.038
Hotspot	Edge Top			0.312		0.004		0.005	0.000	0.005	0.312	0.317	0.000	0.009	0.317	0.321
	Edge Right	0.942				0.073		0.000	0.942	0.942	0.942	0.942	0.942	1.015	1.015	1.015
	Edge Bottom	0.939	0.315		0.017		0.001		1.272	1.271	0.957	0.956	1.256	1.254	0.940	0.939
	Edge Left	0.402	0.315	0.312	0.045		0.001	0.046	0.763	0.808	0.761	0.806	0.720	0.763	0.716	0.761

### 12.11. WWAN(PCE)<sub>Cell-on</sub> ANT2 & Wi-Fi Power State 2 & BT & 802.15.4ab NB

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2	1+3	1+4	1+5
		WWAN Cell-on ANT2	Wi-Fi 2.4G Pstate 2 ANT3	Wi-Fi 2.4G Pstate 2 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4				
Head	Left Cheek	0.857	0.165	0.551	0.103	0.371	1.023	1.409	0.961	1.228
	Left Tilt	0.942	0.165	0.167	0.003	0.093	1.107	1.109	0.945	1.035
	Right Cheek	0.939	0.165	0.167	0.001	0.106	1.104	1.106	0.940	1.044
	Right Tilt	0.941	0.165	0.167	0.043	0.031	1.107	1.108	0.984	0.972
Body-worn & Hotspot	Back	0.932	0.402	0.317	0.227	0.212	1.333	1.249	1.159	1.144
	Front	0.636	0.254	0.317	0.198	0.221	0.890	0.953	0.834	0.858
Hotspot	Edge Top	0.935		0.317		0.024	0.935	1.252	0.935	0.959
	Edge Right	0.284		0.538		0.376	0.284	0.822	0.284	0.660
	Edge Bottom		0.254		0.104		0.254	0.000	0.104	0.000
	Edge Left	0.681	0.332		0.243		1.013	0.681	0.924	0.681

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2+4	1+2+5	1+3+4	1+3+5
		WWAN Cell-on ANT2	Wi-Fi 5G Pstate 2 ANT5	Wi-Fi 5G Pstate 2 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4				
Head	Left Cheek	0.857	0.118	0.432	0.004	0.067	0.979	1.042	1.294	1.357
	Left Tilt	0.942	0.092	0.432	0.001	0.016	1.035	1.050	1.376	1.391
	Right Cheek	0.939	0.092	0.456	0.001	0.023	1.032	1.053	1.396	1.418
	Right Tilt	0.941	0.092	0.432	0.001	0.005	1.034	1.038	1.375	1.379
Body-worn & Hotspot	Back	0.932	0.448	0.393	0.046	0.041	1.426	1.421	1.371	1.366
	Front	0.636	0.396	0.393	0.039	0.035	1.071	1.067	1.068	1.064
Hotspot	Edge Top	0.935		0.393		0.004	0.935	0.939	1.328	1.333
	Edge Right	0.284				0.073	0.284	0.357	0.284	0.357
	Edge Bottom		0.396		0.017		0.413	0.396	0.017	0.000
	Edge Left	0.681	0.396	0.393	0.045		1.122	1.077	1.119	1.074

### 12.12. WWAN(PCE)<sub>Cell-on</sub> ANT2 & Wi-Fi Power State 4 & BT & 802.15.4ab NB

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+6	1+2+7	1+3+6	1+3+7	1+4+6	1+4+7	1+5+6	1+5+7
		WWAN Cell-on ANT2	Wi-Fi 2.4G Pstate 4 ANT3	Wi-Fi 2.4G Pstate 4 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.857	0.156	0.499	0.103	0.371	0.001	0.022	1.015	1.035	1.358	1.378	0.962	0.982	1.229	1.250
	Left Tilt	0.942	0.156	0.170	0.003	0.093	0.003	0.024	1.101	1.122	1.115	1.136	0.948	0.969	1.038	1.059
	Right Cheek	0.939	0.156	0.170	0.001	0.106	0.001	0.065	1.096	1.159	1.110	1.173	0.941	1.005	1.046	1.109
	Right Tilt	0.941	0.156	0.170	0.043	0.031	0.001	0.044	1.099	1.142	1.112	1.156	0.985	1.029	0.973	1.017
Body-worn & Hotspot	Back	0.932	0.265	0.306	0.227	0.212	0.001	0.089	1.198	1.286	1.239	1.327	1.160	1.248	1.145	1.233
	Front	0.636	0.265	0.306	0.198	0.221	0.001	0.008	0.903	0.909	0.944	0.950	0.835	0.842	0.859	0.865
Hotspot	Edge Top	0.935		0.306		0.024		0.005	0.935	0.940	0.935	1.246	0.935	0.940	0.959	0.963
	Edge Right	0.284		0.445		0.376			0.284	0.284	0.729	0.729	0.284	0.284	0.660	0.660
	Edge Bottom		0.265		0.104		0.001		0.267	0.265	0.001	0.000	0.105	0.104	0.001	0.000
	Edge Left	0.681	0.312		0.243		0.046		0.995	1.039	0.682	0.727	0.925	0.970	0.682	0.727

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+4+6	1+2+4+7	1+3+4+6	1+3+4+7	1+2+5+6	1+2+5+7	1+3+5+6	1+3+5+7
		WWAN Cell-on ANT2	Wi-Fi 5G Pstate 4 ANT5	Wi-Fi 5G Pstate 4 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.857	0.094	0.344	0.004	0.067	0.001	0.022	0.956	0.977	1.206	1.227	0.953	1.039	1.269	1.289
	Left Tilt	0.942	0.077	0.344	0.001	0.016	0.003	0.024	1.023	1.044	1.290	1.311	1.025	1.060	1.305	1.326
	Right Cheek	0.939	0.077	0.362	0.001	0.023	0.001	0.065	1.018	1.082	1.304	1.367	1.018	1.103	1.325	1.388
	Right Tilt	0.941	0.077	0.344	0.001	0.005	0.001	0.044	1.021	1.064	1.287	1.331	1.020	1.068	1.291	1.334
Body-worn & Hotspot	Back	0.932	0.356	0.312	0.046	0.041	0.001	0.089	1.335	1.422	1.291	1.379	1.290	1.418	1.287	1.375
	Front	0.636	0.315	0.312	0.039	0.035	0.001	0.008	0.991	0.997	0.989	0.995	0.953	0.993	0.984	0.991
Hotspot	Edge Top	0.935		0.312		0.004		0.005	0.935	0.940	1.247	1.252	0.935	0.944	1.252	1.256
	Edge Right	0.284				0.073			0.284	0.284	0.284	0.284	0.284	0.357	0.357	0.357
	Edge Bottom		0.315		0.017		0.001		0.333	0.331	0.018	0.017	0.317	0.315	0.001	0.000
	Edge Left	0.681	0.315	0.312	0.045		0.001	0.046	1.042	1.087	1.040	1.084	0.998	1.042	0.995	1.040



### 12.13. WWAN(PCE)<sub>Cell-on</sub> ANT3 & Wi-Fi Power State 2 & BT & 802.15.4ab NB

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2	1+3	1+4	1+5
		WWAN Cell-on ANT3	Wi-Fi 2.4G Pstate 2 ANT3	Wi-Fi 2.4G Pstate 2 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4				
Head	Left Cheek	0.341	0.165	0.551	0.103	0.371	0.506	0.892	0.444	0.712
	Left Tilt	0.118	0.165	0.167	0.003	0.093	0.283	0.285	0.120	0.210
	Right Cheek	0.144	0.165	0.167	0.001	0.106	0.310	0.311	0.146	0.250
	Right Tilt	0.161	0.165	0.167	0.043	0.031	0.326	0.328	0.204	0.192
Body-worn & Hotspot	Back	0.939	0.402	0.317	0.227	0.212	1.341	1.256	1.166	1.151
	Front	0.750	0.254	0.317	0.198	0.221	1.003	1.067	0.948	0.971
Hotspot	Edge Top			0.317		0.024	0.000	0.317	0.000	0.024
	Edge Right			0.538		0.376	0.000	0.538	0.000	0.376
	Edge Bottom	0.819	0.254		0.104		1.072	0.819	0.923	0.819
	Edge Left	0.928	0.332		0.243		1.260	0.928	1.170	0.928

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2+4	1+2+5	1+3+4	1+3+5
		WWAN Cell-on ANT3	Wi-Fi 5G Pstate 2 ANT5	Wi-Fi 5G Pstate 2 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4				
Head	Left Cheek	0.341	0.118	0.432	0.004	0.067	0.463	0.525	0.777	0.840
	Left Tilt	0.118	0.092	0.432	0.001	0.016	0.211	0.226	0.552	0.567
	Right Cheek	0.144	0.092	0.456	0.001	0.023	0.237	0.259	0.602	0.623
	Right Tilt	0.161	0.092	0.432	0.001	0.005	0.254	0.258	0.595	0.599
Body-worn & Hotspot	Back	0.939	0.448	0.393	0.046	0.041	1.433	1.428	1.378	1.374
	Front	0.750	0.396	0.393	0.039	0.035	1.184	1.180	1.182	1.177
Hotspot	Edge Top			0.393		0.004	0.000	0.004	0.393	0.398
	Edge Right					0.073	0.000	0.073	0.000	0.073
	Edge Bottom	0.819	0.396		0.017		1.231	1.215	0.835	0.819
	Edge Left	0.928	0.396	0.393	0.045		1.368	1.324	1.366	1.321

### 12.14. WWAN(PCE)<sub>Cell-on</sub> ANT3 & Wi-Fi Power State 4 & BT & 802.15.4ab NB

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+6	1+2+7	1+3+6	1+3+7	1+4+6	1+4+7	1+5+6	1+5+7
		WWAN Cell-on ANT3	Wi-Fi 2.4G Pstate 4 ANT3	Wi-Fi 2.4G Pstate 4 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.341	0.156	0.499	0.103	0.371	0.001	0.022	0.498	0.518	0.841	0.862	0.445	0.465	0.713	0.733
	Left Tilt	0.118	0.156	0.170	0.003	0.093	0.003	0.024	0.277	0.298	0.291	0.312	0.124	0.145	0.214	0.235
	Right Cheek	0.144	0.156	0.170	0.001	0.106	0.001	0.065	0.302	0.365	0.315	0.379	0.147	0.210	0.251	0.315
	Right Tilt	0.161	0.156	0.170	0.043	0.031	0.001	0.044	0.318	0.362	0.332	0.375	0.205	0.248	0.193	0.236
Body-worn & Hotspot	Back	0.939	0.265	0.306	0.227	0.212	0.001	0.089	1.205	1.293	1.247	1.334	1.167	1.255	1.152	1.240
	Front	0.750	0.265	0.306	0.198	0.221	0.001	0.008	1.016	1.023	1.057	1.064	0.949	0.956	0.972	0.979
Hotspot	Edge Top			0.306		0.024		0.005	0.000	0.005	0.000	0.311	0.000	0.005	0.024	0.028
	Edge Right			0.445		0.376			0.000	0.000	0.445	0.000	0.000	0.000	0.376	0.376
	Edge Bottom	0.819	0.265		0.104		0.001		1.085	1.084	0.820	0.819	0.924	0.923	0.820	0.819
	Edge Left	0.928	0.312		0.243		0.001	0.046	1.241	1.286	0.929	0.974	1.172	1.217	0.929	0.974

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+4+6	1+2+4+7	1+3+4+6	1+3+4+7	1+2+5+6	1+2+5+7	1+3+5+6	1+3+5+7
		WWAN Cell-on ANT3	Wi-Fi 5G Pstate 4 ANT5	Wi-Fi 5G Pstate 4 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.341	0.094	0.344	0.004	0.067	0.001	0.022	0.440	0.460	0.690	0.710	0.436	0.523	0.752	0.773
	Left Tilt	0.118	0.077	0.344	0.001	0.016	0.003	0.024	0.199	0.220	0.466	0.487	0.201	0.235	0.481	0.502
	Right Cheek	0.144	0.077	0.362	0.001	0.023	0.001	0.065	0.224	0.287	0.509	0.573	0.223	0.309	0.530	0.594
	Right Tilt	0.161	0.077	0.344	0.001	0.005	0.001	0.044	0.240	0.284	0.507	0.550	0.240	0.287	0.511	0.554
Body-worn & Hotspot	Back	0.939	0.356	0.312	0.046	0.041	0.001	0.089	1.342	1.430	1.299	1.386	1.297	1.425	1.294	1.382
	Front	0.750	0.315	0.312	0.039	0.035	0.001	0.008	1.104	1.111	1.102	1.109	1.067	1.107	1.098	1.104
Hotspot	Edge Top			0.312		0.004		0.005	0.000	0.005	0.312	0.317	0.000	0.009	0.317	0.321
	Edge Right					0.073			0.000	0.000	0.000	0.000	0.000	0.073	0.073	
	Edge Bottom	0.819	0.315		0.017		0.001		1.151	1.150	0.837	0.835	1.136	1.133	0.820	0.819
	Edge Left	0.928	0.315	0.312	0.045		0.001	0.046	1.288	1.333	1.286	1.331	1.245	1.288	1.241	1.286

### 12.15. WWAN(PCE)<sub>Cell-on</sub> ANT4 & Wi-Fi Power State 2 & BT & 802.15.4ab NB

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2	1+3	1+4	1+5
		WWAN Cell-on ANT4	Wi-Fi 2.4G Pstate 2 ANT3	Wi-Fi 2.4G Pstate 2 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4				
Head	Left Cheek	0.945	0.165	0.551	0.103	0.371	1.110	1.496	1.048	1.316
	Left Tilt	0.379	0.165	0.167	0.003	0.093	0.544	0.546	0.382	0.472
	Right Cheek	0.302	0.165	0.167	0.001	0.106	0.467	0.469	0.303	0.408
	Right Tilt	0.185	0.165	0.167	0.043	0.031	0.350	0.352	0.228	0.216
Body-worn & Hotspot	Back	0.720	0.402	0.317	0.227	0.212	1.121	1.037	0.947	0.932
	Front	0.466	0.254	0.317	0.198	0.221	0.720	0.784	0.665	0.688
Hotspot	Edge Top	0.176		0.317		0.024	0.176	0.494	0.176	0.200
	Edge Right	0.949		0.538		0.376	0.949	1.487	0.949	1.325
	Edge Bottom		0.254		0.104		0.254	0.000	0.104	0.000
	Edge Left		0.332		0.243		0.332	0.000	0.243	0.000

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2+4	1+2+5	1+3+4	1+3+5
		WWAN Cell-on ANT4	Wi-Fi 5G Pstate 2 ANT5	Wi-Fi 5G Pstate 2 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4				
Head	Left Cheek	0.945	0.118	0.432	0.004	0.067	1.067	1.130	1.382	1.444
	Left Tilt	0.379	0.092	0.432	0.001	0.016	0.472	0.487	0.813	0.828
	Right Cheek	0.302	0.092	0.456	0.001	0.023	0.395	0.416	0.760	0.781
	Right Tilt	0.185	0.092	0.432	0.001	0.005	0.278	0.282	0.619	0.623
Body-worn & Hotspot	Back	0.720	0.448	0.393	0.046	0.041	1.214	1.209	1.159	1.155
	Front	0.466	0.396	0.393	0.039	0.035	0.901	0.897	0.899	0.894
Hotspot	Edge Top	0.176		0.393		0.004	0.176	0.181	0.570	0.574
	Edge Right	0.949				0.073	0.949	1.022	0.949	1.022
	Edge Bottom		0.396		0.017		0.413	0.396	0.017	0.000
	Edge Left		0.396	0.393	0.045		0.441	0.396	0.438	0.393

### 12.16. WWAN(PCE)<sub>Cell-on</sub> ANT4 & Wi-Fi Power State 4 & BT & 802.15.4ab NB

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+6	1+2+7	1+3+6	1+3+7	1+4+6	1+4+7	1+5+6	1+5+7
		WWAN Cell-on ANT4	Wi-Fi 2.4G Pstate 4 ANT3	Wi-Fi 2.4G Pstate 4 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.945	0.156	0.499	0.103	0.371	0.001	0.022	1.102	1.123	1.446	1.466	1.049	1.070	1.317	1.337
	Left Tilt	0.379	0.156	0.170	0.003	0.093	0.003	0.024	0.538	0.559	0.552	0.573	0.385	0.406	0.475	0.496
	Right Cheek	0.302	0.156	0.170	0.001	0.106	0.001	0.065	0.459	0.523	0.473	0.537	0.305	0.368	0.409	0.473
	Right Tilt	0.185	0.156	0.170	0.043	0.031	0.001	0.044	0.342	0.386	0.356	0.400	0.229	0.272	0.217	0.260
Body-worn & Hotspot	Back	0.720	0.265	0.306	0.227	0.212	0.001	0.089	0.986	1.074	1.027	1.115	0.948	1.036	0.933	1.021
	Front	0.466	0.265	0.306	0.198	0.221	0.001	0.008	0.733	0.740	0.774	0.781	0.666	0.672	0.689	0.696
Hotspot	Edge Top	0.176		0.306		0.024		0.005	0.176	0.181	0.176	0.487	0.176	0.181	0.200	0.205
	Edge Right	0.949		0.445		0.376			0.949	0.949	1.395	1.395	0.949	0.949	1.325	1.325
	Edge Bottom		0.265		0.104		0.001		0.267	0.265	0.001	0.000	0.105	0.104	0.001	0.000
	Edge Left		0.312		0.243		0.001	0.046	0.314	0.358	0.001	0.046	0.244	0.289	0.001	0.046

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+4+6	1+2+4+7	1+3+4+6	1+3+4+7	1+2+5+6	1+2+5+7	1+3+5+6	1+3+5+7
		WWAN Cell-on ANT4	Wi-Fi 5G Pstate 4 ANT5	Wi-Fi 5G Pstate 4 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.945	0.094	0.344	0.004	0.067	0.001	0.022	1.044	1.064	1.294	1.314	1.041	1.127	1.357	1.377
	Left Tilt	0.379	0.077	0.344	0.001	0.016	0.003	0.024	0.461	0.482	0.727	0.748	0.462	0.497	0.742	0.763
	Right Cheek	0.302	0.077	0.362	0.001	0.023	0.001	0.065	0.382	0.445	0.667	0.731	0.381	0.466	0.688	0.752
	Right Tilt	0.185	0.077	0.344	0.001	0.005	0.001	0.044	0.264	0.308	0.531	0.574	0.264	0.312	0.535	0.578
Body-worn & Hotspot	Back	0.720	0.356	0.312	0.046	0.041	0.001	0.089	1.123	1.210	1.079	1.167	1.078	1.206	1.075	1.163
	Front	0.466	0.315	0.312	0.039	0.035	0.001	0.008	0.821	0.828	0.819	0.825	0.784	0.823	0.815	0.821
Hotspot	Edge Top	0.176		0.312		0.004		0.005	0.176	0.181	0.489	0.493	0.176	0.185	0.493	0.498
	Edge Right	0.949				0.073			0.949	0.949	0.949	0.949	0.949	1.022	1.022	1.022
	Edge Bottom		0.315		0.017		0.001		0.333	0.331	0.018	0.017	0.317	0.315	0.001	0.000
	Edge Left		0.315	0.312	0.045		0.001	0.046	0.361	0.405	0.359	0.403	0.317	0.361	0.314	0.359

**12.17. WWAN(PCE)<sub>Cell-on</sub> ANT7 & Wi-Fi Power State 2 & BT & 802.15.4ab NB**

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2	1+3	1+4	1+5
		WWAN Cell-on ANT7	Wi-Fi 2.4G Pstate 2 ANT3	Wi-Fi 2.4G Pstate 2 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4				
Head	Left Cheek	0.116	0.165	0.551	0.103	0.371	0.281	0.667	0.219	0.487
	Left Tilt	0.131	0.165	0.167	0.003	0.093	0.296	0.298	0.134	0.224
	Right Cheek	0.176	0.165	0.167	0.001	0.106	0.341	0.343	0.177	0.281
	Right Tilt	0.100	0.165	0.167	0.043	0.031	0.265	0.267	0.143	0.131
Body-worn & Hotspot	Back	0.900	0.402	0.317	0.227	0.212	1.302	1.218	1.127	1.112
	Front	0.456	0.254	0.317	0.198	0.221	0.709	0.773	0.654	0.677
Hotspot	Edge Top			0.317		0.024	0.000	0.317	0.000	0.024
	Edge Right	0.735		0.538		0.376	0.735	1.273	0.735	1.111
	Edge Bottom	0.250	0.254		0.104		0.504	0.250	0.354	0.250
	Edge Left		0.332		0.243		0.332	0.000	0.243	0.000

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2+4	1+2+5	1+3+4	1+3+5
		WWAN Cell-on ANT7	Wi-Fi 5G Pstate 2 ANT5	Wi-Fi 5G Pstate 2 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4				
Head	Left Cheek	0.116	0.118	0.432	0.004	0.067	0.238	0.301	0.553	0.615
	Left Tilt	0.131	0.092	0.432	0.001	0.016	0.224	0.239	0.565	0.580
	Right Cheek	0.176	0.092	0.456	0.001	0.023	0.269	0.290	0.633	0.655
	Right Tilt	0.100	0.092	0.432	0.001	0.005	0.193	0.196	0.534	0.537
Body-worn & Hotspot	Back	0.900	0.448	0.393	0.046	0.041	1.394	1.390	1.339	1.335
	Front	0.456	0.396	0.393	0.039	0.035	0.890	0.886	0.888	0.883
Hotspot	Edge Top			0.393		0.004	0.000	0.004	0.393	0.398
	Edge Right	0.735				0.073	0.735	0.808	0.735	0.808
	Edge Bottom	0.250	0.396		0.017		0.663	0.646	0.267	0.250
	Edge Left		0.396	0.393	0.045		0.441	0.396	0.438	0.393

**12.18. WWAN(PCE)<sub>Cell-on</sub> ANT7 & Wi-Fi Power State 4 & BT & 802.15.4ab NB**

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+6	1+2+7	1+3+6	1+3+7	1+4+6	1+4+7	1+5+6	1+5+7
		WWAN Cell-on ANT7	Wi-Fi 2.4G Pstate 4 ANT3	Wi-Fi 2.4G Pstate 4 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.116	0.156	0.499	0.103	0.371	0.001	0.022	0.273	0.294	0.616	0.637	0.220	0.241	0.488	0.508
	Left Tilt	0.131	0.156	0.170	0.003	0.093	0.003	0.024	0.290	0.311	0.304	0.325	0.137	0.158	0.227	0.248
	Right Cheek	0.176	0.156	0.170	0.001	0.106	0.001	0.065	0.333	0.396	0.347	0.410	0.178	0.242	0.283	0.346
	Right Tilt	0.100	0.156	0.170	0.043	0.031	0.001	0.044	0.257	0.300	0.271	0.314	0.144	0.187	0.132	0.175
Body-worn & Hotspot	Back	0.900	0.265	0.306	0.227	0.212	0.001	0.089	1.167	1.255	1.208	1.296	1.128	1.216	1.114	1.201
	Front	0.456	0.265	0.306	0.198	0.221	0.001	0.008	0.722	0.729	0.763	0.770	0.655	0.661	0.678	0.685
Hotspot	Edge Top			0.306		0.024		0.005	0.000	0.005	0.000	0.311	0.000	0.005	0.024	0.028
	Edge Right	0.735		0.445		0.376			0.735	0.735	1.180	1.180	0.735	0.735	1.111	1.111
	Edge Bottom	0.250	0.265		0.104		0.001		0.517	0.515	0.252	0.250	0.356	0.354	0.252	0.250
	Edge Left		0.312		0.243		0.046		0.314	0.358	0.001	0.046	0.244	0.289	0.001	0.046

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+4+6	1+2+4+7	1+3+4+6	1+3+4+7	1+2+5+6	1+2+5+7	1+3+5+6	1+3+5+7
		WWAN Cell-on ANT7	Wi-Fi 5G Pstate 4 ANT5	Wi-Fi 5G Pstate 4 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.116	0.094	0.344	0.004	0.067	0.001	0.022	0.215	0.235	0.465	0.485	0.212	0.298	0.527	0.548
	Left Tilt	0.131	0.077	0.344	0.001	0.016	0.003	0.024	0.212	0.234	0.479	0.500	0.214	0.249	0.494	0.515
	Right Cheek	0.176	0.077	0.362	0.001	0.023	0.001	0.065	0.255	0.319	0.540	0.604	0.255	0.340	0.562	0.625
	Right Tilt	0.100	0.077	0.344	0.001	0.005	0.001	0.044	0.179	0.223	0.446	0.489	0.179	0.226	0.449	0.493
Body-worn & Hotspot	Back	0.900	0.356	0.312	0.046	0.041	0.001	0.089	1.303	1.391	1.260	1.348	1.259	1.386	1.255	1.343
	Front	0.456	0.315	0.312	0.039	0.035	0.001	0.008	0.810	0.817	0.808	0.815	0.773	0.813	0.804	0.810
Hotspot	Edge Top			0.312		0.004		0.005	0.000	0.005	0.312	0.317	0.000	0.009	0.317	0.321
	Edge Right	0.735				0.073			0.735	0.735	0.735	0.735	0.735	0.808	0.808	0.808
	Edge Bottom	0.250	0.315		0.017		0.001		0.583	0.582	0.268	0.267	0.567	0.565	0.252	0.250
	Edge Left		0.315	0.312	0.045		0.001	0.046	0.361	0.405	0.359	0.403	0.317	0.361	0.314	0.359

### 12.19. WWAN(PCE)<sub>Cell-on</sub> ANT8 & Wi-Fi Power State 2 & BT & 802.15.4ab NB

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2	1+3	1+4	1+5
		WWAN Cell-on ANT8	Wi-Fi 2.4G Pstate 2 ANT3	Wi-Fi 2.4G Pstate 2 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4				
Head	Left Cheek	0.663	0.165	0.551	0.103	0.371	0.828	1.214	0.766	1.034
	Left Tilt	0.910	0.165	0.167	0.003	0.093	1.075	1.077	0.912	1.002
	Right Cheek	0.728	0.165	0.167	0.001	0.106	0.893	0.895	0.729	0.834
	Right Tilt	0.494	0.165	0.167	0.043	0.031	0.659	0.661	0.537	0.525
Body-worn & Hotspot	Back	0.713	0.402	0.317	0.227	0.212	1.114	1.030	0.939	0.925
	Front	0.435	0.254	0.317	0.198	0.221	0.689	0.753	0.633	0.657
Hotspot	Edge Top	0.935		0.317		0.024	0.935	1.253	0.935	0.959
	Edge Right			0.538		0.376	0.000	0.538	0.000	0.376
	Edge Bottom		0.254		0.104		0.254	0.000	0.104	0.000
	Edge Left	0.398	0.332		0.243		0.730	0.398	0.641	0.398

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2+4	1+2+5	1+3+4	1+3+5
		WWAN Cell-on ANT8	Wi-Fi 5G Pstate 2 ANT5	Wi-Fi 5G Pstate 2 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4				
Head	Left Cheek	0.663	0.118	0.432	0.004	0.067	0.785	0.848	1.100	1.162
	Left Tilt	0.910	0.092	0.432	0.001	0.016	1.003	1.018	1.344	1.359
	Right Cheek	0.728	0.092	0.456	0.001	0.023	0.821	0.842	1.186	1.207
	Right Tilt	0.494	0.092	0.432	0.001	0.005	0.587	0.591	0.928	0.932
Body-worn & Hotspot	Back	0.713	0.448	0.393	0.046	0.041	1.206	1.202	1.152	1.147
	Front	0.435	0.396	0.393	0.039	0.035	0.870	0.866	0.867	0.863
Hotspot	Edge Top	0.935		0.393		0.004	0.935	0.940	1.329	1.333
	Edge Right					0.073	0.000	0.073	0.000	0.073
	Edge Bottom		0.396		0.017		0.413	0.396	0.017	0.000
	Edge Left	0.398	0.396	0.393	0.045		0.839	0.794	0.836	0.791

### 12.20. WWAN(PCE)<sub>Cell-on</sub> ANT8 & Wi-Fi Power State 4 & BT & 802.15.4ab NB

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+6	1+2+7	1+3+6	1+3+7	1+4+6	1+4+7	1+5+6	1+5+7
		WWAN Cell-on ANT8	Wi-Fi 2.4G Pstate 4 ANT3	Wi-Fi 2.4G Pstate 4 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.663	0.156	0.499	0.103	0.371	0.001	0.022	0.820	0.841	1.164	1.184	0.767	0.788	1.035	1.055
	Left Tilt	0.910	0.156	0.170	0.003	0.093	0.003	0.024	1.069	1.090	1.083	1.104	0.916	0.937	1.006	1.027
	Right Cheek	0.728	0.156	0.170	0.001	0.106	0.001	0.065	0.885	0.949	0.899	0.963	0.730	0.794	0.835	0.898
	Right Tilt	0.494	0.156	0.170	0.043	0.031	0.001	0.044	0.651	0.695	0.665	0.709	0.538	0.582	0.526	0.570
Body-worn & Hotspot	Back	0.713	0.265	0.306	0.227	0.212	0.001	0.089	0.979	1.067	1.020	1.108	0.941	1.029	0.926	1.014
	Front	0.435	0.265	0.306	0.198	0.221	0.001	0.008	0.702	0.709	0.743	0.750	0.635	0.641	0.658	0.665
Hotspot	Edge Top	0.935		0.306		0.024		0.005	0.935	0.940	0.935	1.246	0.935	0.940	0.959	0.964
	Edge Right			0.445		0.376		0.000	0.000	0.445	0.445	0.000	0.000	0.376	0.376	
	Edge Bottom		0.265		0.104		0.001		0.267	0.265	0.001	0.000	0.105	0.104	0.001	0.000
	Edge Left	0.398	0.312		0.243		0.001	0.046	0.711	0.756	0.399	0.444	0.642	0.687	0.399	0.444

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+4+6	1+2+4+7	1+3+4+6	1+3+4+7	1+2+5+6	1+2+5+7	1+3+5+6	1+3+5+7
		WWAN Cell-on ANT8	Wi-Fi 5G Pstate 4 ANT5	Wi-Fi 5G Pstate 4 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.663	0.094	0.344	0.004	0.067	0.001	0.022	0.762	0.782	1.012	1.032	0.759	0.845	1.075	1.095
	Left Tilt	0.910	0.077	0.344	0.001	0.016	0.003	0.024	0.991	1.012	1.258	1.279	0.993	1.027	1.273	1.294
	Right Cheek	0.728	0.077	0.362	0.001	0.023	0.001	0.065	0.807	0.871	1.093	1.156	0.807	0.892	1.114	1.178
	Right Tilt	0.494	0.077	0.344	0.001	0.005	0.001	0.044	0.574	0.617	0.840	0.884	0.573	0.621	0.844	0.887
Body-worn & Hotspot	Back	0.713	0.356	0.312	0.046	0.041	0.001	0.089	1.116	1.203	1.072	1.160	1.071	1.199	1.068	1.155
	Front	0.435	0.315	0.312	0.039	0.035	0.001	0.008	0.790	0.797	0.788	0.794	0.753	0.792	0.784	0.790
Hotspot	Edge Top	0.935		0.312		0.004		0.005	0.935	0.940	1.248	1.252	0.935	0.944	1.252	1.257
	Edge Right					0.073		0.000	0.000	0.000	0.000	0.000	0.000	0.073	0.073	
	Edge Bottom		0.315		0.017		0.001		0.333	0.331	0.018	0.017	0.317	0.315	0.001	0.000
	Edge Left	0.398	0.315	0.312	0.045		0.001	0.046	0.758	0.803	0.756	0.801	0.715	0.759	0.712	0.757

**12.21. WWAN(PCE)<sub>Cell-on</sub> ANT9 & Wi-Fi Power State 2 & BT & 802.15.4ab NB**

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2	1+3	1+4	1+5
		WWAN Cell-on ANT9	Wi-Fi 2.4G Pstate 2 ANT3	Wi-Fi 2.4G Pstate 2 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4				
Head	Left Cheek	0.121	0.165	0.551	0.103	0.371	0.286	0.672	0.224	0.492
	Left Tilt	0.036	0.165	0.167	0.003	0.093	0.202	0.203	0.039	0.129
	Right Cheek	0.075	0.165	0.167	0.001	0.106	0.240	0.242	0.076	0.181
	Right Tilt	0.082	0.165	0.167	0.043	0.031	0.247	0.249	0.125	0.113
Body-worn & Hotspot	Back	0.581	0.402	0.317	0.227	0.212	0.982	0.898	0.808	0.793
	Front	0.358	0.254	0.317	0.198	0.221	0.612	0.676	0.556	0.580
Hotspot	Edge Top			0.317		0.024	0.000	0.317	0.000	0.024
	Edge Right			0.538		0.376	0.000	0.538	0.000	0.376
	Edge Bottom	0.250	0.254		0.104		0.504	0.250	0.354	0.250
	Edge Left	0.649	0.332		0.243		0.981	0.649	0.892	0.649

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2+4	1+2+5	1+3+4	1+3+5
		WWAN Cell-on ANT9	Wi-Fi 5G Pstate 2 ANT5	Wi-Fi 5G Pstate 2 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4				
Head	Left Cheek	0.121	0.118	0.432	0.004	0.067	0.243	0.306	0.558	0.620
	Left Tilt	0.036	0.092	0.432	0.001	0.016	0.129	0.144	0.470	0.485
	Right Cheek	0.075	0.092	0.456	0.001	0.023	0.168	0.189	0.533	0.554
	Right Tilt	0.082	0.092	0.432	0.001	0.005	0.175	0.178	0.516	0.519
Body-worn & Hotspot	Back	0.581	0.448	0.393	0.046	0.041	1.075	1.070	1.020	1.015
	Front	0.358	0.396	0.393	0.039	0.035	0.793	0.789	0.790	0.786
Hotspot	Edge Top			0.393		0.004	0.000	0.004	0.393	0.398
	Edge Right					0.073	0.000	0.073	0.000	0.073
	Edge Bottom	0.250	0.396		0.017		0.663	0.646	0.267	0.250
	Edge Left	0.649	0.396	0.393	0.045		1.090	1.045	1.087	1.042

**12.22. WWAN(PCE)<sub>Cell-on</sub> ANT9 & Wi-Fi Power State 4 & BT & 802.15.4ab NB**

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+6	1+2+7	1+3+6	1+3+7	1+4+6	1+4+7	1+5+6	1+5+7
		WWAN Cell-on ANT9	Wi-Fi 2.4G Pstate 4 ANT3	Wi-Fi 2.4G Pstate 4 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.121	0.156	0.499	0.103	0.371	0.001	0.022	0.278	0.299	0.622	0.642	0.225	0.246	0.493	0.513
	Left Tilt	0.036	0.156	0.170	0.003	0.093	0.003	0.024	0.196	0.217	0.210	0.231	0.042	0.063	0.132	0.153
	Right Cheek	0.075	0.156	0.170	0.001	0.106	0.001	0.065	0.232	0.296	0.246	0.310	0.077	0.141	0.182	0.245
	Right Tilt	0.082	0.156	0.170	0.043	0.031	0.001	0.044	0.239	0.282	0.253	0.296	0.126	0.169	0.114	0.157
Body-worn & Hotspot	Back	0.581	0.265	0.306	0.227	0.212	0.001	0.089	0.847	0.935	0.888	0.976	0.809	0.897	0.794	0.882
	Front	0.358	0.265	0.306	0.198	0.221	0.001	0.008	0.625	0.631	0.666	0.673	0.558	0.564	0.581	0.588
Hotspot	Edge Top			0.306		0.024		0.005	0.000	0.005	0.000	0.311	0.000	0.005	0.024	0.028
	Edge Right			0.445		0.376			0.000	0.000	0.445	0.445	0.000	0.000	0.376	0.376
	Edge Bottom	0.250	0.265		0.104		0.001		0.516	0.515	0.251	0.250	0.355	0.354	0.251	0.250
	Edge Left	0.649	0.312		0.243		0.001	0.046	0.963	1.007	0.650	0.695	0.893	0.938	0.650	0.695

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+4+6	1+2+4+7	1+3+4+6	1+3+4+7	1+2+5+6	1+2+5+7	1+3+5+6	1+3+5+7
		WWAN Cell-on ANT9	Wi-Fi 5G Pstate 4 ANT5	Wi-Fi 5G Pstate 4 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.121	0.094	0.344	0.004	0.067	0.001	0.022	0.220	0.240	0.470	0.490	0.217	0.303	0.533	0.553
	Left Tilt	0.036	0.077	0.344	0.001	0.016	0.003	0.024	0.118	0.139	0.385	0.406	0.120	0.154	0.400	0.421
	Right Cheek	0.075	0.077	0.362	0.001	0.023	0.001	0.065	0.154	0.218	0.440	0.503	0.154	0.239	0.461	0.525
	Right Tilt	0.082	0.077	0.344	0.001	0.005	0.001	0.044	0.161	0.205	0.428	0.471	0.161	0.208	0.431	0.475
Body-worn & Hotspot	Back	0.581	0.356	0.312	0.046	0.041	0.001	0.089	0.984	1.071	0.940	1.028	0.939	1.067	0.936	1.024
	Front	0.358	0.315	0.312	0.039	0.035	0.001	0.008	0.713	0.719	0.711	0.717	0.675	0.715	0.707	0.713
Hotspot	Edge Top			0.312		0.004		0.005	0.000	0.005	0.312	0.317	0.000	0.009	0.317	0.321
	Edge Right					0.073			0.000	0.000	0.000	0.000	0.000	0.073	0.073	
	Edge Bottom	0.250	0.315		0.017		0.001		0.583	0.581	0.268	0.267	0.567	0.564	0.251	0.250
	Edge Left	0.649	0.315	0.312	0.045		0.001	0.046	1.010	1.054	1.008	1.052	0.966	1.010	0.963	1.008

**12.23. WWAN(CBE)Cell-on ANT4 & Wi-Fi Power State 2 & BT & 802.15.4ab NB**

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2	1+3	1+4	1+5
		WWAN Cell-on ANT4	Wi-Fi 2.4G Pstate 2 ANT3	Wi-Fi 2.4G Pstate 2 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4				
Head	Left Cheek	0.905	0.165	0.551	0.103	0.371	1.070	1.456	1.008	1.276
	Left Tilt	0.556	0.165	0.167	0.003	0.093	0.721	0.723	0.558	0.648
	Right Cheek	0.181	0.165	0.167	0.001	0.106	0.346	0.348	0.182	0.287
	Right Tilt	0.163	0.165	0.167	0.043	0.031	0.328	0.330	0.206	0.194
Body-worn & Hotspot	Back	0.649	0.402	0.317	0.227	0.212	1.050	0.966	0.875	0.861
	Front	0.533	0.254	0.317	0.198	0.221	0.787	0.850	0.731	0.754
Hotspot	Edge Top	0.077		0.317		0.024	0.077	0.394	0.077	0.101
	Edge Right	0.931		0.538		0.376	0.931	1.469	0.931	1.307
	Edge Bottom		0.254		0.104		0.254	0.000	0.104	0.000
	Edge Left		0.332		0.243		0.332	0.000	0.243	0.000

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2+4	1+2+5	1+3+4	1+3+5
		WWAN Cell-on ANT4	Wi-Fi 5G Pstate 2 ANT5	Wi-Fi 5G Pstate 2 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4				
Head	Left Cheek	0.905	0.118	0.432	0.004	0.067	1.027	1.090	1.342	1.405
	Left Tilt	0.556	0.092	0.432	0.001	0.016	0.649	0.664	0.990	1.005
	Right Cheek	0.181	0.092	0.456	0.001	0.023	0.274	0.295	0.638	0.660
	Right Tilt	0.163	0.092	0.432	0.001	0.005	0.256	0.260	0.597	0.601
Body-worn & Hotspot	Back	0.649	0.448	0.393	0.046	0.041	1.142	1.138	1.088	1.083
	Front	0.533	0.396	0.393	0.039	0.035	0.968	0.963	0.965	0.961
Hotspot	Edge Top	0.077		0.393		0.004	0.077	0.081	0.470	0.474
	Edge Right	0.931				0.073	0.931	1.004	0.931	1.004
	Edge Bottom		0.396		0.017		0.413	0.396	0.017	0.000
	Edge Left		0.396	0.393	0.045		0.441	0.396	0.438	0.393

**12.24. WWAN(CBE)Cell-on ANT4 & Wi-Fi Power State 4 & BT & 802.15.4ab NB**

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+6	1+2+7	1+3+6	1+3+7	1+4+6	1+4+7	1+5+6	1+5+7
		WWAN Cell-on ANT4	Wi-Fi 2.4G Pstate 4 ANT3	Wi-Fi 2.4G Pstate 4 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.905	0.156	0.499	0.103	0.371	0.001	0.022	1.062	1.083	1.406	1.426	1.009	1.030	1.277	1.298
	Left Tilt	0.556	0.156	0.170	0.003	0.093	0.003	0.024	0.715	0.736	0.729	0.750	0.562	0.583	0.652	0.673
	Right Cheek	0.181	0.156	0.170	0.001	0.106	0.001	0.065	0.338	0.402	0.352	0.415	0.183	0.247	0.288	0.351
	Right Tilt	0.163	0.156	0.170	0.043	0.031	0.001	0.044	0.320	0.364	0.334	0.378	0.207	0.251	0.195	0.239
Body-worn & Hotspot	Back	0.649	0.265	0.306	0.227	0.212	0.001	0.089	0.915	1.003	0.956	1.044	0.877	0.965	0.862	0.950
	Front	0.533	0.265	0.306	0.198	0.221	0.001	0.008	0.800	0.806	0.841	0.847	0.732	0.739	0.756	0.762
Hotspot	Edge Top	0.077		0.306		0.024		0.005	0.077	0.081	0.077	0.388	0.077	0.081	0.101	0.105
	Edge Right	0.931		0.445		0.376			0.931	0.931	1.377	1.377	0.931	0.931	1.307	1.307
	Edge Bottom		0.265		0.104		0.001		0.267	0.265	0.001	0.000	0.105	0.104	0.001	0.000
	Edge Left		0.312		0.243		0.001	0.046	0.314	0.358	0.001	0.046	0.244	0.289	0.001	0.046

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+4+6	1+2+4+7	1+3+4+6	1+3+4+7	1+2+5+6	1+2+5+7	1+3+5+6	1+3+5+7
		WWAN Cell-on ANT4	Wi-Fi 5G Pstate ON ANT5	Wi-Fi 5G Pstate ON ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.905	0.094	0.344	0.004	0.067	0.001	0.022	1.004	1.024	1.254	1.274	1.001	1.087	1.317	1.337
	Left Tilt	0.556	0.077	0.344	0.001	0.016	0.003	0.024	0.637	0.658	0.904	0.925	0.639	0.673	0.919	0.940
	Right Cheek	0.181	0.077	0.362	0.001	0.023	0.001	0.065	0.260	0.324	0.546	0.609	0.260	0.345	0.567	0.630
	Right Tilt	0.163	0.077	0.344	0.001	0.005	0.001	0.044	0.243	0.286	0.509	0.553	0.242	0.290	0.513	0.556
Body-worn & Hotspot	Back	0.649	0.356	0.312	0.046	0.041	0.001	0.089	1.052	1.139	1.008	1.096	1.007	1.135	1.004	1.091
	Front	0.533	0.315	0.312	0.039	0.035	0.001	0.008	0.887	0.894	0.885	0.892	0.850	0.890	0.881	0.888
Hotspot	Edge Top	0.077		0.312		0.004		0.005	0.077	0.081	0.389	0.394	0.077	0.085	0.393	0.398
	Edge Right	0.931				0.073			0.931	0.931	0.931	0.931	0.931	1.004	1.004	1.004
	Edge Bottom		0.315		0.017		0.001		0.333	0.331	0.018	0.017	0.317	0.315	0.001	0.000
	Edge Left		0.315	0.312	0.045		0.001	0.046	0.361	0.405	0.359	0.403	0.317	0.361	0.314	0.359

**12.25. WWAN(CBE)Cell-on ANT7 & Wi-Fi Power State 2 & BT & 802.15.4ab NB**

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2	1+3	1+4	1+5
		WWAN Cell-on ANT7	Wi-Fi 2.4G Pstate 2 ANT3	Wi-Fi 2.4G Pstate 2 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4				
Head	Left Cheek	0.059	0.165	0.551	0.103	0.371	0.225	0.611	0.162	0.430
	Left Tilt	0.078	0.165	0.167	0.003	0.093	0.243	0.245	0.080	0.170
	Right Cheek	0.189	0.165	0.167	0.001	0.106	0.354	0.355	0.190	0.294
	Right Tilt	0.058	0.165	0.167	0.043	0.031	0.223	0.225	0.101	0.089
Body-worn & Hotspot	Back	0.557	0.402	0.317	0.227	0.212	0.958	0.874	0.784	0.769
	Front	0.274	0.254	0.317	0.198	0.221	0.528	0.592	0.472	0.496
Hotspot	Edge Top			0.317		0.024	0.000	0.317	0.000	0.024
	Edge Right	0.789		0.538		0.376	0.789	1.326	0.789	1.164
	Edge Bottom	0.230	0.254		0.104		0.484	0.230	0.334	0.230
	Edge Left		0.332		0.243		0.332	0.000	0.243	0.000

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2+4	1+2+5	1+3+4	1+3+5
		WWAN Cell-on ANT7	Wi-Fi 5G Pstate 2 ANT5	Wi-Fi 5G Pstate 2 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4				
Head	Left Cheek	0.059	0.118	0.432	0.004	0.067	0.181	0.244	0.496	0.559
	Left Tilt	0.078	0.092	0.432	0.001	0.016	0.171	0.186	0.512	0.527
	Right Cheek	0.189	0.092	0.456	0.001	0.023	0.281	0.303	0.646	0.667
	Right Tilt	0.058	0.092	0.432	0.001	0.005	0.151	0.155	0.492	0.496
Body-worn & Hotspot	Back	0.557	0.448	0.393	0.046	0.041	1.051	1.046	0.996	0.991
	Front	0.274	0.396	0.393	0.039	0.035	0.709	0.705	0.706	0.702
Hotspot	Edge Top			0.393		0.004	0.000	0.004	0.393	0.398
	Edge Right	0.789				0.073	0.789	0.862	0.789	0.862
	Edge Bottom	0.230	0.396		0.017		0.643	0.626	0.247	0.230
	Edge Left		0.396	0.393	0.045		0.441	0.396	0.438	0.393

**12.26. WWAN(CBE)Cell-on ANT7 & Wi-Fi Power State 4 & BT & 802.15.4ab NB**

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+6	1+2+7	1+3+6	1+3+7	1+4+6	1+4+7	1+5+6	1+5+7
		WWAN Cell-on ANT7	Wi-Fi 2.4G Pstate 4 ANT3	Wi-Fi 2.4G Pstate 4 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.059	0.156	0.499	0.103	0.371	0.001	0.022	0.217	0.237	0.560	0.580	0.164	0.184	0.431	0.452
	Left Tilt	0.078	0.156	0.170	0.003	0.093	0.003	0.024	0.237	0.258	0.251	0.272	0.084	0.105	0.174	0.195
	Right Cheek	0.189	0.156	0.170	0.001	0.106	0.001	0.065	0.346	0.409	0.360	0.423	0.191	0.254	0.295	0.359
	Right Tilt	0.058	0.156	0.170	0.043	0.031	0.001	0.044	0.215	0.259	0.229	0.272	0.102	0.145	0.090	0.133
Body-worn & Hotspot	Back	0.557	0.265	0.306	0.227	0.212	0.001	0.089	0.823	0.911	0.864	0.952	0.785	0.873	0.770	0.858
	Front	0.274	0.265	0.306	0.198	0.221	0.001	0.008	0.541	0.548	0.582	0.589	0.474	0.480	0.497	0.504
Hotspot	Edge Top			0.306		0.024		0.005	0.000	0.005	0.000	0.311	0.000	0.005	0.024	0.028
	Edge Right	0.789		0.445		0.376			0.789	0.789	1.234	1.234	0.789	0.789	1.164	1.164
	Edge Bottom	0.230	0.265		0.104		0.001		0.497	0.495	0.231	0.230	0.335	0.334	0.231	0.230
	Edge Left		0.312		0.243		0.001	0.046	0.314	0.358	0.001	0.046	0.244	0.289	0.001	0.046

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+4+6	1+2+4+7	1+3+4+6	1+3+4+7	1+2+5+6	1+2+5+7	1+3+5+6	1+3+5+7
		WWAN Cell-on ANT7	Wi-Fi 5G Pstate 4 ANT5	Wi-Fi 5G Pstate 4 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.059	0.094	0.344	0.004	0.067	0.001	0.022	0.158	0.179	0.408	0.429	0.155	0.241	0.471	0.491
	Left Tilt	0.078	0.077	0.344	0.001	0.016	0.003	0.024	0.159	0.180	0.426	0.447	0.161	0.195	0.441	0.462
	Right Cheek	0.189	0.077	0.362	0.001	0.023	0.001	0.065	0.268	0.332	0.553	0.617	0.268	0.353	0.575	0.638
	Right Tilt	0.058	0.077	0.344	0.001	0.005	0.001	0.044	0.137	0.181	0.404	0.447	0.137	0.184	0.408	0.451
Body-worn & Hotspot	Back	0.557	0.356	0.312	0.046	0.041	0.001	0.089	0.960	1.047	0.916	1.004	0.915	1.043	0.912	1.000
	Front	0.274	0.315	0.312	0.039	0.035	0.001	0.008	0.629	0.635	0.627	0.633	0.592	0.631	0.623	0.629
Hotspot	Edge Top			0.312		0.004		0.005	0.000	0.005	0.312	0.317	0.000	0.009	0.317	0.321
	Edge Right	0.789				0.073			0.789	0.789	0.789	0.789	0.789	0.862	0.862	
	Edge Bottom	0.230	0.315		0.017		0.001		0.563	0.562	0.248	0.247	0.547	0.545	0.231	0.230
	Edge Left		0.315	0.312	0.045		0.001	0.046	0.361	0.405	0.359	0.403	0.317	0.361	0.314	0.359

**12.27. WWAN(CBE)Cell-on ANT8 & Wi-Fi Power State 2 & BT & 802.15.4ab NB**

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2	1+3	1+4	1+5
		WWAN Cell-on ANT8	Wi-Fi 2.4G Pstate 2 ANT3	Wi-Fi 2.4G Pstate 2 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4				
Head	Left Cheek	0.791	0.165	0.551	0.103	0.371	0.956	1.342	0.894	1.162
	Left Tilt	0.934	0.165	0.167	0.003	0.093	1.100	1.101	0.937	1.027
	Right Cheek	0.541	0.165	0.167	0.001	0.106	0.706	0.708	0.542	0.647
	Right Tilt	0.547	0.165	0.167	0.043	0.031	0.712	0.714	0.590	0.578
Body-worn & Hotspot	Back	0.766	0.402	0.317	0.227	0.212	1.167	1.083	0.993	0.978
	Front	0.548	0.254	0.317	0.198	0.221	0.802	0.866	0.746	0.770
Hotspot	Edge Top	0.828		0.317		0.024	0.828	1.145	0.828	0.851
	Edge Right			0.538		0.376	0.000	0.538	0.000	0.376
	Edge Bottom		0.254		0.104		0.254	0.000	0.104	0.000
	Edge Left	0.080	0.332		0.243		0.412	0.080	0.323	0.080
RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2+4	1+2+5	1+3+4	1+3+5
		WWAN Cell-on ANT8	Wi-Fi 5G Pstate 2 ANT5	Wi-Fi 5G Pstate 2 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4				
Head	Left Cheek	0.791	0.118	0.432	0.004	0.067	0.913	0.976	1.228	1.290
	Left Tilt	0.934	0.092	0.432	0.001	0.016	1.027	1.042	1.368	1.383
	Right Cheek	0.541	0.092	0.456	0.001	0.023	0.634	0.655	0.999	1.020
	Right Tilt	0.547	0.092	0.432	0.001	0.005	0.640	0.644	0.981	0.985
Body-worn & Hotspot	Back	0.766	0.448	0.393	0.046	0.041	1.259	1.255	1.205	1.200
	Front	0.548	0.396	0.393	0.039	0.035	0.983	0.979	0.980	0.976
Hotspot	Edge Top	0.828		0.393		0.004	0.828	0.832	1.221	1.225
	Edge Right					0.073	0.000	0.073	0.000	0.073
	Edge Bottom		0.396		0.017		0.413	0.396	0.017	0.000
	Edge Left	0.080	0.396	0.393	0.045		0.521	0.476	0.518	0.473

**12.28. WWAN(CBE)Cell-on ANT8 & Wi-Fi Power State 4 & BT & 802.15.4ab NB**

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+6	1+2+7	1+3+6	1+3+7	1+4+6	1+4+7	1+5+6	1+5+7
		WWAN Cell-on ANT8	Wi-Fi 2.4G Pstate ON ANT3	Wi-Fi 2.4G Pstate ON ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.791	0.156	0.499	0.103	0.371	0.001	0.022	0.948	0.969	1.291	1.312	0.895	0.916	1.163	1.183
	Left Tilt	0.934	0.156	0.170	0.003	0.093	0.003	0.024	1.094	1.115	1.108	1.129	0.940	0.961	1.030	1.051
	Right Cheek	0.541	0.156	0.170	0.001	0.106	0.001	0.065	0.698	0.762	0.712	0.776	0.543	0.607	0.648	0.711
	Right Tilt	0.547	0.156	0.170	0.043	0.031	0.001	0.044	0.704	0.748	0.718	0.761	0.591	0.634	0.579	0.622
Body-worn & Hotspot	Back	0.766	0.265	0.306	0.227	0.212	0.001	0.089	1.032	1.120	1.073	1.161	0.994	1.082	0.979	1.067
	Front	0.548	0.265	0.306	0.198	0.221	0.001	0.008	0.815	0.821	0.856	0.862	0.747	0.754	0.771	0.777
Hotspot	Edge Top	0.828		0.306		0.024		0.005	0.828	0.832	0.828	1.139	0.828	0.832	0.851	0.856
	Edge Right			0.445		0.376			0.000	0.000	0.445	0.445	0.000	0.000	0.376	0.376
	Edge Bottom		0.265		0.104		0.001		0.267	0.265	0.001	0.000	0.105	0.104	0.001	0.000
	Edge Left	0.080	0.312		0.243		0.001	0.046	0.394	0.438	0.081	0.126	0.324	0.369	0.081	0.126
RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+4+6	1+2+4+7	1+3+4+6	1+3+4+7	1+2+5+6	1+2+5+7	1+3+5+6	1+3+5+7
		WWAN Cell-on ANT8	Wi-Fi 5G Pstate ON ANT5	Wi-Fi 5G Pstate ON ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.791	0.094	0.344	0.004	0.067	0.001	0.022	0.890	0.910	1.140	1.160	0.887	0.973	1.202	1.223
	Left Tilt	0.934	0.077	0.344	0.001	0.016	0.003	0.024	1.016	1.037	1.282	1.304	1.018	1.052	1.297	1.319
	Right Cheek	0.541	0.077	0.362	0.001	0.023	0.001	0.065	0.620	0.684	0.906	0.969	0.620	0.705	0.927	0.991
	Right Tilt	0.547	0.077	0.344	0.001	0.005	0.001	0.044	0.626	0.670	0.893	0.936	0.626	0.673	0.897	0.940
Body-worn & Hotspot	Back	0.766	0.356	0.312	0.046	0.041	0.001	0.089	1.169	1.256	1.125	1.213	1.124	1.252	1.121	1.209
	Front	0.548	0.315	0.312	0.039	0.035	0.001	0.008	0.903	0.909	0.901	0.907	0.865	0.905	0.896	0.903
Hotspot	Edge Top	0.828		0.312		0.004		0.005	0.828	0.832	1.140	1.145	0.828	0.836	1.144	1.149
	Edge Right					0.073			0.000	0.000	0.000	0.000	0.000	0.073	0.073	
	Edge Bottom		0.315		0.017		0.001		0.333	0.331	0.018	0.017	0.315	0.315	0.001	0.000
	Edge Left	0.080	0.315	0.312	0.045		0.001	0.046	0.441	0.486	0.439	0.483	0.397	0.441	0.394	0.439



**12.29. WWAN(CBE)Cell-on ANT9 & Wi-Fi Power State 2 & BT & 802.15.4ab NB**

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2	1+3	1+4	1+5
		WWAN Cell-on ANT9	Wi-Fi 2.4G Pstate 2 ANT3	Wi-Fi 2.4G Pstate 2 ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4				
Head	Left Cheek	0.103	0.165	0.551	0.103	0.371	0.269	0.655	0.207	0.474
	Left Tilt	0.032	0.165	0.167	0.003	0.093	0.197	0.199	0.035	0.125
	Right Cheek	0.058	0.165	0.167	0.001	0.106	0.223	0.225	0.059	0.164
	Right Tilt	0.060	0.165	0.167	0.043	0.031	0.226	0.227	0.103	0.091
Body-worn & Hotspot	Back	0.759	0.402	0.317	0.227	0.212	1.161	1.076	0.986	0.971
	Front	0.497	0.254	0.317	0.198	0.221	0.751	0.815	0.695	0.719
Hotspot	Edge Top			0.317		0.024	0.000	0.317	0.000	0.024
	Edge Right			0.538		0.376	0.000	0.538	0.000	0.376
	Edge Bottom	0.236	0.254		0.104		0.490	0.236	0.340	0.236
	Edge Left	0.712	0.332		0.243		1.044	0.712	0.955	0.712

RF Exposure conditions	Test Position	Standalone SAR (W/kg)					Σ 1-g SAR (W/kg)			
		1	2	3	4	5	1+2+4	1+2+5	1+3+4	1+3+5
		WWAN Cell-on ANT9	Wi-Fi 5G Pstate 2 ANT5	Wi-Fi 5G Pstate 2 ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4				
Head	Left Cheek	0.103	0.118	0.432	0.004	0.067	0.225	0.288	0.540	0.603
	Left Tilt	0.032	0.092	0.432	0.001	0.016	0.125	0.140	0.466	0.481
	Right Cheek	0.058	0.092	0.456	0.001	0.023	0.151	0.172	0.516	0.537
	Right Tilt	0.060	0.092	0.432	0.001	0.005	0.153	0.157	0.494	0.498
Body-worn & Hotspot	Back	0.759	0.448	0.393	0.046	0.041	1.253	1.248	1.198	1.194
	Front	0.497	0.396	0.393	0.039	0.035	0.932	0.928	0.929	0.925
Hotspot	Edge Top			0.393		0.004	0.000	0.004	0.393	0.398
	Edge Right					0.073	0.000	0.073	0.000	0.073
	Edge Bottom	0.236	0.396		0.017		0.649	0.632	0.253	0.236
	Edge Left	0.712	0.396	0.393	0.045		1.153	1.108	1.150	1.105

**12.30. WWAN(CBE)Cell-on ANT9 & Wi-Fi Power State 4 & BT & 802.15.4ab NB**

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+6	1+2+7	1+3+6	1+3+7	1+4+6	1+4+7	1+5+6	1+5+7
		WWAN Cell-on ANT9	Wi-Fi 2.4G Pstate ON ANT3	Wi-Fi 2.4G Pstate ON ANT4	BT(P <sub>high</sub> ) ANT3	BT(P <sub>high</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.103	0.156	0.499	0.103	0.371	0.001	0.022	0.261	0.281	0.604	0.624	0.208	0.228	0.475	0.496
	Left Tilt	0.032	0.156	0.170	0.003	0.093	0.003	0.024	0.192	0.213	0.205	0.227	0.038	0.059	0.128	0.149
	Right Cheek	0.058	0.156	0.170	0.001	0.106	0.001	0.065	0.215	0.279	0.229	0.293	0.060	0.124	0.165	0.228
	Right Tilt	0.060	0.156	0.170	0.043	0.031	0.001	0.044	0.217	0.261	0.231	0.275	0.104	0.148	0.092	0.136
Body-worn & Hotspot	Back	0.759	0.265	0.306	0.227	0.212	0.001	0.089	1.026	1.113	1.067	1.154	0.987	1.075	0.973	1.060
	Front	0.497	0.265	0.306	0.198	0.221	0.001	0.008	0.764	0.771	0.805	0.812	0.697	0.703	0.720	0.727
Hotspot	Edge Top			0.306		0.024		0.005	0.000	0.005	0.000	0.311	0.000	0.005	0.024	0.028
	Edge Right			0.445		0.376			0.000	0.000	0.445	0.445	0.000	0.000	0.376	0.376
	Edge Bottom	0.236	0.265		0.104		0.001		0.502	0.501	0.237	0.236	0.341	0.340	0.237	0.236
	Edge Left	0.712	0.312		0.243		0.001	0.046	1.025	1.070	0.713	0.758	0.956	1.001	0.713	0.758

RF Exposure conditions	Test Position	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)							
		1	2	3	4	5	6	7	1+2+4+6	1+2+4+7	1+3+4+6	1+3+4+7	1+2+5+6	1+2+5+7	1+3+5+6	1+3+5+7
		WWAN Cell-on ANT9	Wi-Fi 5G Pstate ON ANT5	Wi-Fi 5G Pstate ON ANT6	BT(P <sub>Low</sub> ) ANT3	BT(P <sub>Low</sub> ) ANT4	802.15.4 NB ANT5	802.15.4 NB ANT6								
Head	Left Cheek	0.103	0.094	0.344	0.004	0.067	0.001	0.022	0.202	0.223	0.452	0.473	0.199	0.285	0.515	0.535
	Left Tilt	0.032	0.077	0.344	0.001	0.016	0.003	0.024	0.114	0.135	0.380	0.401	0.116	0.150	0.395	0.416
	Right Cheek	0.058	0.077	0.362	0.001	0.023	0.001	0.065	0.137	0.201	0.423	0.486	0.137	0.222	0.444	0.508
	Right Tilt	0.060	0.077	0.344	0.001	0.005	0.001	0.044	0.140	0.183	0.406	0.450	0.139	0.187	0.410	0.453
Body-worn & Hotspot	Back	0.759	0.356	0.312	0.046	0.041	0.001	0.089	1.162	1.250	1.119	1.206	1.117	1.245	1.114	1.202
	Front	0.497	0.315	0.312	0.039	0.035	0.001	0.008	0.852	0.858	0.850	0.856	0.815	0.854	0.846	0.852
Hotspot	Edge Top			0.312		0.004		0.005	0.000	0.005	0.312	0.317	0.000	0.009	0.317	0.321
	Edge Right					0.073			0.000	0.000	0.000	0.000	0.000	0.073	0.073	
	Edge Bottom	0.236	0.315		0.017		0.001		0.568	0.567	0.254	0.253	0.553	0.550	0.237	0.236
	Edge Left	0.712	0.315	0.312	0.045		0.001	0.046	1.072	1.117	1.070	1.115	1.029	1.073	1.026	1.071

## **Appendixes**

**Refer to separated files for the following appendixes.**

**Appendix A: SAR Setup Photos**

**Appendix B: SAR System Check Plots**

**Appendix C: SAR Highest Test Plots**

**Appendix D: SAR Tissue Ingredients**

**Appendix E: SAR Probe Certificates**

**Appendix F: SAR Dipole Certificates**

**Appendix G: Conducted Output Power Measurements**

**Appendix H: Body Detect Validation**

**Appendix I: Wi-Fi Time-Averaged SAR**

**Appendix J: MSS Time-Averaged SAR**

**Appendix K: Dipole Impedance Measurement**

**END OF REPORT**