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PART 0 SAR CHAR REPORT

Applicant Name:
Apple, Inc.
One Apple Park Way
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Date of Testing:
06/23/2021 – 08/23/2021
Test Site/Location:
PCTEST Lab, Morgan Hill, CA, USA
Document Serial No.:
1C2106080049-27.BCG

FCC ID:	**BCGA2568**
APPLICANT:	**APPLE, INC.**

Report Type:	Part 0 SAR Characterization
DUT Type:	Tablet Device
Model(s):	A2568, A2569

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

Randy Ortanez
President

ACCREDITED
CERT #2041.02

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
UMTS 850	Data	826.40 - 846.60 MHz
UMTS 1750	Data	1712.4 - 1752.6 MHz
UMTS 1900	Data	1852.4 - 1907.6 MHz
LTE Band 71	Data	665.5 - 695.5 MHz
LTE Band 12	Data	699.7 - 715.3 MHz
LTE Band 17	Data	706.5 - 713.5 MHz
LTE Band 13	Data	779.5 - 784.5 MHz
LTE Band 14	Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Data	824.7 - 848.3 MHz
LTE Band 4 (AWS)	Data	1710.7 - 1754.3 MHz
LTE Band 66 (AWS)	Data	1710.7 - 1779.3 MHz
LTE Band 2 (PCS)	Data	1850.7 - 1909.3 MHz
LTE Band 25 (PCS)	Data	1850.7 - 1914.3 MHz
LTE Band 30	Data	2307.5 - 2312.5 MHz
LTE Band 7	Data	2502.5 - 2567.5 MHz
LTE Band 41	Data	2498.5 - 2687.5 MHz
LTE Band 48	Data	3552.5 - 3697.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n12	Data	701.5 - 713.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 MHz
NR Band n66 (AWS)	Data	1712.5 - 1777.5 MHz
NR Band n2 (PCS)	Data	1852.5 - 1907.5 MHz
NR Band n25 (PCS)	Data	1852.5 - 1912.5 MHz
NR Band n30	Data	2307.5 - 2312.5 MHz
NR Band n7	Data	2502.5 - 2567.5 MHz
NR Band n41	Data	2506.02 - 2679.99 MHz
NR Band n77 DoD	Data	3460.02 - 3540 MHz
NR Band n77 C	Data	3710.01 - 3969.99 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
Bluetooth	Data	2402 - 2480 MHz

This device uses the Qualcomm® Smart Transmit feature to control and manage transmitting power in real time and to ensure the time-averaged RF exposure is in compliance with the FCC requirement at all times for 2G/3G/4G/5G WWAN operations. Additionally, this device supports WLAN/BT technologies, but the output power of these modems is not controlled by the Smart Transmit algorithm.

1.2 Time-Averaging for SAR

This device is enabled with Qualcomm® Smart Transmit algorithm to control and manage transmitting power in real time and to ensure that the time-averaged RF exposure from 3G/4G/5G Sub-6 NR WWAN is in compliance with FCC requirements. This Part 0 report shows SAR characterization of WWAN radios for 3G/4G/5G Sub-6 NR. Characterization is achieved by determining P_{Limit} for 3G/4G/5G Sub-6 NR that corresponds to the exposure design targets after accounting for all device design related uncertainties, i.e., SAR_design_target (< FCC SAR limit) for sub-6 radio. The SAR characterization is denoted as SAR Char in this report. Section 1.3 includes a nomenclature of the specific terms used in this report.

The compliance test under the static transmission scenario and simultaneous transmission analysis are reported in Part 1 report. The validation of the time-averaging algorithm and compliance under the dynamic (time- varying) transmission scenario for WWAN technologies are reported in Part 2 report (report SN could be found in Section 1.4 – Bibliography).

1.3 Nomenclature for Part 0 Report

Technology	Term	Description
3G/4G/5G Sub-6 NR	P_{limit}	Power level that corresponds to the exposure design target (*SAR_design_target)* after accounting for all device design related uncertainties
	P_{max}	Maximum tune up output power
	SAR_design_target	Target SAR level < FCC SAR limit after accounting for all device design related uncertainties
	SAR Char	Table containing *Plimit* for all technologies and bands

1.4 Bibliography

Report Type	Report Serial Number
FCC SAR Evaluation Report (Part 1)	1C2106080049-28.BCG
RF Exposure Part 2 Test Report	1C2106080049-29.BCG
RF Exposure Compliance Summary	1C2106080049-31.BCG

2 SAR AND POWER DENSITY MEASUREMENTS

2.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 2-1).

Equation 2-1
SAR Mathematical Equation

$$SAR = \frac{d}{dt}\left(\frac{dU}{dm}\right) = \frac{d}{dt}\left(\frac{dU}{\rho dv}\right)$$

SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

σ	=	conductivity of the tissue-simulating material (S/m)
ρ	=	mass density of the tissue-simulating material (kg/m^3)
E	=	Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

2.2 SAR Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See
2. Table 2-1) and IEEE 1528-2013.
3. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.

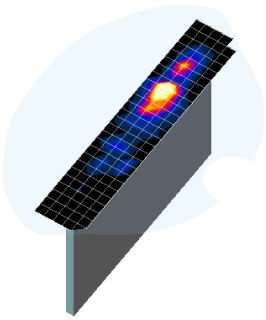

Figure 2-1
Sample SAR Area Scan

4. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 2 1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
    a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in
    b. Table 2-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).

    c. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the “Not a knot” condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.

    d. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
5. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

Table 2-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

Frequency	Maximum Area Scan Resolution (mm) (Δx_{area}, Δy_{area})	Maximum Zoom Scan Resolution (mm) (Δx_{zoom}, Δy_{zoom})	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
			$\Delta z_{zoom}(n)$	$\Delta z_{zoom}(1)$*	$\Delta z_{zoom}(n>1)$*	
≤ 2 GHz	≤ 15	≤ 8	≤ 5	≤ 4	≤ 1.5*$\Delta z_{zoom}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤ 5	≤ 5	≤ 4	≤ 1.5*$\Delta z_{zoom}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤ 5	≤ 4	≤ 3	≤ 1.5*$\Delta z_{zoom}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤ 3	≤ 2.5	≤ 1.5*$\Delta z_{zoom}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤ 2	≤ 1.5*$\Delta z_{zoom}(n-1)$	≥ 22

*Also compliant to IEEE 1528-2013 Table 6

3 SAR CHARACTERIZATION

3.1 DSI and SAR Determination

This device uses different Device State Index (DSI) to configure different time averaged power levels based on certain exposure scenarios. Depending on the detection scheme implemented in the tablet, the worst-case SAR was determined by measurements for the relevant exposure conditions for that DSI. Detailed descriptions of the detection mechanisms are included in the operational description.

The device state index (DSI) conditions used in Table 3-1 represent different exposure scenarios.

Table 3-1
DSI and Corresponding Exposure Scenarios

Scenario	Description	SAR Test Cases
(DSI = 1)	▪ Detect Mode Activated	*Tablet SAR per KDB Publication 616217 D04*

3.2 SAR Design Target

SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer (see Table 3-2).

Table 3-2
***SAR_design_target* Calculations**

SAR_design_target	
$SAR\_design\_target < SAR\_regulatory\_limit \times 10^{\frac{-Total\ Uncertainty}{10}}$	
1g SAR (W/kg)	
Total Uncertainty	1.0 dB
SAR_regulatory_limit	1.6 W/kg
SAR_design_target	0.8 W/kg

3.3 SAR Char

SAR test results corresponding to *Pmax* for each antenna/technology/band/DSI can be found in Appendix A.

Plimit is calculated by linearly scaling with the measured SAR at the Ppart0 to correspond to the *SAR_design_target*. When *Plimit* < *Pmax*, *Ppart0* was used as Plimit in the Smart Transmit EFS. When *Plimit* > *Pmax* and *Ppart0*=Pmax, calculated *Plimit* was used in the Smart Transmit EFS. All reported SAR obtained from the Ppart0 SAR tests was less than *SAR_Design_target*+ 1 dB Uncertainty. The final *Plimit* determination for each exposure scenario corresponding to *SAR_design_target* are shown in Table 3-3.

Table 3-3
***PLimit* Determination**

Device State Index (DSI)	*PLimit* Determination Scenarios
1	The worst-case SAR exposure is determined as maximum SAR normalized to the limit among: 1. Tablet SAR measured at 0 mm for Back, Top, Bottom, Right, Left surfaces

Note:

For DSI = 1, P_{limit} is calculated by:

P_{limit} corresponding to 1g Tablet SAR evaluation at 0 mm for back, top, bottom, left and right surfaces

Table 3-4
SAR Characterizations

Exposure Scenario:	Ant 1a/1b Body	Ant 1a/1b Maximum Tune-up Output Power*	Ant 2 Body	Ant 2 Maximum Tune-up Output Power*	Ant 3a/3b Body	Ant 3a/3b Maximum Tune-up Output Power*	Ant 4 Body	Ant 4 Maximum Tune-up Output Power*
Averaging Volume:	1g		1g		1g		1g	
Spacing:	0 mm		0 mm		0 mm		0 mm	
DSI:	1		1		1		1	
Technology/Band	**Plimit corresponding to 0.8 W/kg**	Pmax	**Plimit corresponding to 0.8 W/kg**	Pmax	**Plimit corresponding to 0.8 W/kg**	Pmax	**Plimit corresponding to 0.8 W/kg**	Pmax
UMTS 850	N/A	N/A	16.70	24.20	N/A	N/A	17.80	24.70
UMTS 1750	11.20	21.70	13.10	22.70	12.20	23.70	13.30	24.70
UMTS 1900	10.20	21.70	12.80	22.70	11.50	23.70	13.00	24.70
LTE Band 71	N/A	N/A	17.50	24.20	N/A	N/A	19.50	24.70
LTE Band 12	N/A	N/A	17.50	24.20	N/A	N/A	17.90	24.70
LTE Band 17	N/A	N/A	17.50	24.20	N/A	N/A	17.90	24.70
LTE Band 13	N/A	N/A	17.25	24.20	N/A	N/A	18.50	24.70
LTE Band 14	N/A	N/A	17.25	24.20	N/A	N/A	18.50	24.70
LTE Band 26 (Cell)	N/A	N/A	16.70	24.20	N/A	N/A	17.80	24.70
LTE Band 5 (Cell)	N/A	N/A	16.70	24.20	N/A	N/A	17.80	24.70
LTE Band 5 ULCA (Cell)	N/A	N/A	16.70	24.20	N/A	N/A	17.80	24.70
LTE Band 66 (AWS)	11.20	21.70	13.10	22.70	12.20	23.70	13.30	24.70
LTE Band 66 ULCA (AWS)	11.20	22.00	13.10	23.00	12.20	24.00	13.30	24.70
LTE Band 4 (AWS)	11.20	21.70	13.10	22.70	12.20	23.70	13.30	24.70
LTE Band 25 (PCS)	10.20	21.70	12.80	22.70	11.50	23.70	13.00	24.70
LTE Band 2 (PCS)	10.20	21.70	12.80	22.70	11.50	23.70	13.00	24.70
LTE Band 30	11.30	21.70	12.20	21.70	13.40	23.20	13.20	21.00
LTE Band 7	12.00	21.70	10.80	22.20	13.70	23.20	11.00	24.70
LTE Band 7 ULCA	12.00	22.00	10.80	22.50	13.70	23.50	11.00	24.70
LTE Band 41 PC3	11.21	21.71	11.11	22.21	12.81	22.71	11.71	22.71
LTE Band 41 ULCA PC3	11.21	22.01	11.11	22.51	12.81	22.71	11.71	22.71
LTE Band 41 PC2	11.21	20.06	11.11	20.56	12.81	21.56	11.71	23.06
LTE Band 41 ULCA PC2	11.21	20.36	11.11	20.86	12.81	21.86	11.71	23.36
LTE Band 48	9.31	16.61	10.01	17.31	9.01	16.41	8.91	16.91
LTE Band 48 ULCA	9.31	16.61	10.01	17.31	9.01	16.41	8.91	16.91
NR Band n71	N/A	N/A	17.50	24.20	N/A	N/A	19.50	24.70
NR Band n12	N/A	N/A	17.50	24.20	N/A	N/A	17.90	24.70
NR Band n5 (Cell)	N/A	N/A	16.70	24.20	N/A	N/A	17.80	24.70
NR Band n66 (AWS)	11.20	21.70	13.10	22.70	12.20	23.70	13.30	24.70
NR Band n25 (PCS)	10.20	21.70	12.80	22.70	11.50	23.70	13.00	24.70
NR Band n2 (PCS)	10.20	21.70	12.80	22.70	11.50	23.70	13.00	24.70
NR Band n30	11.30	17.20	12.20	17.70	13.40	18.70	13.20	20.20
NR Band n7	12.00	21.70	10.80	22.20	13.70	23.20	11.00	24.70
NR Band n41 PC3	11.70	24.70	11.50	24.70	13.90	22.70	11.10	24.70
NR Band n41 PC2	11.70	26.70	11.50	26.70	13.90	22.70	11.10	24.70
NR Band n77 PC3	9.40	23.20	10.40	22.20	10.00	24.70	10.50	24.70
NR Band n77 PC2	9.40	23.20	10.40	22.20	10.00	25.20	10.50	25.70

Notes:

1. When $P_{max} < P_{limit}$, the DUT will operate at a power level up to P_{max}.

4 EQUIPMENT LIST

For SAR measurements

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8753ES	S-Parameter Network Analyzer	09/16/2020	Annual	09/16/2021	MY40000670
Agilent	E4438C	ESG Vector Signal Generator	12/02/2020	Annual	12/02/2021	MY42081752
Agilent	E5515C	Wireless Communications Test Set	12/15/2020	Annual	12/15/2021	GB42361078
Agilent	N5182A	MXG Vector Signal Generator	09/25/2020	Annual	09/25/2021	US46240505
Agilent	N5182A	MXG Vector Signal Generator	12/01/2020	Annual	12/01/2021	MY47420837
Agilent	N9020A	MXA Signal Analyzer	12/21/2020	Annual	12/21/2021	MY50200571
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343971
Anritsu	MA24106A	USB Power Sensor	09/15/2020	Annual	09/15/2021	1244515
Anritsu	MA24106A	USB Power Sensor	09/15/2020	Annual	09/15/2021	1248508
Anritsu	MA24106A	USB Power Sensor	02/25/2021	Annual	02/25/2022	1520503
Anritsu	MA24106A	USB Power Sensor	02/25/2021	Annual	02/25/2022	1520501
Anritsu	MA2411B	Pulse Power Sensor	12/18/2020	Annual	12/18/2021	1126066
Anritsu	ML2495A	Power Meter	11/03/2020	Annual	11/03/2021	1039008
Anritsu	MT8820C	Radio Communication Analyzer	09/30/2020	Annual	09/30/2021	6201240328
Anritsu	MT8821C	Radio Communication Analyzer	05/21/2021	Annual	05/21/2022	6201144419
Control Company	4040	Therm./Clock/Humidity Monitor	03/06/2020	Biennial	03/06/2022	200170313
Control Company	4040	Therm./Clock/Humidity Monitor	03/06/2020	Biennial	03/06/2022	200170296
Control Company	4040	Therm./Clock/Humidity Monitor	03/06/2020	Biennial	03/06/2022	200170289
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670646
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670653
Insize	1108-150	Digital Caliper	01/17/2020	Biennial	01/17/2022	409193536
KEYSIGHT	E4438C	VECTOR SIGNAL GENERATOR	06/22/2020	Annual	06/22/2021	MY45092078
MCL	BW-N10W5+	10dB Attenuator	CBT	N/A	CBT	1611
MCL	BW-N3W5+	3dB Attenuator	CBT	N/A	CBT	1812
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1311
Mini-Circuits	NLP-1000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
Mini-Circuits	ZHDC-16-63-S+	50-6000MHz Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	04/13/2020	Annual	04/13/2022	167284
Rohde & Schwarz	CMW500	Radio Communication Tester	04/27/2021	Annual	04/27/2022	167285
Rohde & Schwarz	CMW500	Radio Communication Tester	10/16/2020	Annual	10/16/2021	101699
Rohde & Schwarz	CMW500	Radio Communication Tester	10/16/2020	Annual	10/16/2021	106578
Rohde & Schwarz	CMW500	Radio Communication Tester	10/27/2020	Annual	10/27/2021	108843
Rohde & Schwarz	FSP-7	Spectrum Analyzer	01/09/2020	Biennial	01/09/2022	100990
Rohde& Schwarz	CMW500	Wideband Radio Communication Tester	09/17/2020	Annual	09/17/2021	145663
Rosenberger	32W1006-016	Torque Wrench	12/01/2020	Annual	12/01/2021	N/A
SPEAG	DAKS-3.5	Portable DAK	09/09/2020	Annual	09/09/2021	1045
SPEAG	D750V3	750 MHz SAR Dipole	09/08/2020	Annual	09/08/2021	1097
SPEAG	D835V2	835 MHz SAR Dipole	06/20/2019	Triennial	06/20/2022	4d040
SPEAG	D850V2	850 MHz SAR Dipole	09/08/2020	Annual	09/08/2021	1010
SPEAG	D1750V2	1750 MHz SAR Dipole	06/19/2019	Triennial	06/19/2022	1083
SPEAG	D1900V2	1900 MHz SAR Dipole	06/19/2019	Triennial	06/19/2022	5d030
SPEAG	D2300V2	2300 MHz SAR Dipole	11/10/2020	Annual	11/10/2021	1064
SPEAG	D2450V2	2450 MHz SAR Dipole	11/12/2018	Triennial	11/12/2021	921
SPEAG	D2450V2	2450 MHz SAR Dipole	06/14/2019	Triennial	06/14/2022	750
SPEAG	D2600V2	2600 MHz SAR Dipole	06/14/2019	Triennial	06/14/2022	1042
SPEAG	D3500V2	3500 MHz SAR Dipole	08/16/2019	Biennial	08/16/2021	1055
SPEAG	D3700V2	3700 MHz SAR Dipole	10/17/2019	Biennial	10/17/2021	1002
SPEAG	D3900V2	3900 MHz SAR Dipole	11/13/2020	Annual	11/13/2021	1062
SPEAG	D5GHzV2	5 GHz SAR Dipole	03/10/2021	Annual	03/10/2022	1123
SPEAG	EX3DV4	SAR Probe	03/03/2021	Annual	03/03/2022	7640
SPEAG	EX3DV4	SAR Probe	04/19/2021	Annual	04/19/2022	7532
SPEAG	EX3DV4	SAR Probe	03/03/2021	Annual	03/03/2022	7639
SPEAG	EX3DV4	SAR Probe	05/18/2021	Annual	05/18/2022	7416
SPEAG	EX3DV4	SAR Probe	03/03/2021	Annual	03/03/2022	7638
SPEAG	EX3DV4	SAR Probe	01/18/2021	Annual	01/18/2022	3837
SPEAG	EX3DV4	SAR Probe	02/17/2021	Annual	02/17/2022	7427
SPEAG	EX3DV4	SAR Probe	08/19/2021	Annual	08/19/2021	3949
SPEAG	EX3DV4	SAR Probe	03/17/2021	Annual	03/17/2022	7421
SPEAG	EX3DV4	SAR Probe	12/15/2020	Annual	12/15/2021	7490
SPEAG	EX3DV4	SAR Probe	10/21/2020	Annual	10/21/2021	7558
SPEAG	DAE4	Dasy Data Acquisition Electronics	01/11/2021	Annual	01/11/2022	1645
SPEAG	DAE4	Dasy Data Acquisition Electronics	04/13/2021	Annual	04/13/2022	501
SPEAG	DAE4	Dasy Data Acquisition Electronics	01/11/2021	Annual	01/11/2022	1646
SPEAG	DAE4	Dasy Data Acquisition Electronics	05/11/2021	Annual	05/11/2022	701
SPEAG	DAE4	Dasy Data Acquisition Electronics	01/13/2021	Annual	01/13/2022	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	03/10/2021	Annual	03/10/2022	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	01/11/2021	Annual	01/11/2022	1644
SPEAG	DAE4	Dasy Data Acquisition Electronics	09/13/2020	Annual	09/13/2021	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/12/2020	Annual	10/12/2021	1364
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/11/2021	Annual	5/11/2022	728

Note:

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

5 MEASUREMENT UNCERTAINTIES

For SAR Measurements

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c_i 1gm	c_i 10 gms	1gm u_i (± %)	10gms u_i (± %)	v_i
Measurement System									
Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.732	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.732	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.732	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.732	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.732	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.732	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.732	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	E.3.4	0.6	R	1.732	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)			RSS				12.2	12.0	191
Expanded Uncertainty (95% CONFIDENCE LEVEL)			k=2				24.4	24.0	

The above measurement uncertainties are according to IEEE Std. 1528-2013

APPENDIX A: SAR TEST RESULTS FOR P_{LIMIT} CALCULATIONS

Note: For some bands/modes, a lower P_{limit} was selected as a more conservative evaluation.

Table A-1
DSI = 1 P_{Limit} Calculations – Antenna 2 UMTS 850

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
826.40	4132	UMTS 850	RMC	17.37	0 mm	Antenna 2	1:1	back	0.814	17.29	17.29
836.60	4183	UMTS 850	RMC	17.36	0 mm	Antenna 2	1:1	back	0.717	17.84	
846.60	4233	UMTS 850	RMC	17.32	0 mm	Antenna 2	1:1	back	0.685	17.99	
826.40	4132	UMTS 850	RMC	17.37	0 mm	Antenna 2	1:1	top	0.009	36.86	
826.40	4132	UMTS 850	RMC	17.37	0 mm	Antenna 2	1:1	bottom	0.466	19.72	
826.40	4132	UMTS 850	RMC	17.37	0 mm	Antenna 2	1:1	right	0.410	20.27	
826.40	4132	UMTS 850	RMC	17.37	0 mm	Antenna 2	1:1	left	0.038	30.60	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table A-2
DSI = 1 P_{Limit} Calculations – Antenna 4 UMTS 850

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
826.40	4132	UMTS 850	RMC	17.87	0 mm	Antenna 4	1:1	back	0.786	17.95	17.95
836.60	4183	UMTS 850	RMC	17.89	0 mm	Antenna 4	1:1	back	0.743	18.21	
846.60	4233	UMTS 850	RMC	17.85	0 mm	Antenna 4	1:1	back	0.710	18.37	
836.60	4183	UMTS 850	RMC	17.89	0 mm	Antenna 4	1:1	top	0.457	20.32	
836.60	4183	UMTS 850	RMC	17.89	0 mm	Antenna 4	1:1	bottom	0.012	36.13	
836.60	4183	UMTS 850	RMC	17.89	0 mm	Antenna 4	1:1	right	0.046	30.29	
836.60	4183	UMTS 850	RMC	17.89	0 mm	Antenna 4	1:1	left	0.543	19.57	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table A-3
DSI = 1 P_{Limit} Calculations – Antenna 2 UMTS 1750

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
1712.40	1312	UMTS 1750	RMC	12.47	0 mm	Antenna 2	1:1	back	0.531	14.25	
1712.40	1312	UMTS 1750	RMC	12.47	0 mm	Antenna 2	1:1	top	0.000	41.50	
1712.40	1312	UMTS 1750	RMC	12.47	0 mm	Antenna 2	1:1	bottom	0.584	13.84	
1732.40	1412	UMTS 1750	RMC	12.41	0 mm	Antenna 2	1:1	bottom	0.583	13.78	13.78
1752.60	1513	UMTS 1750	RMC	12.36	0 mm	Antenna 2	1:1	bottom	0.550	13.99	
1712.40	1312	UMTS 1750	RMC	12.47	0 mm	Antenna 2	1:1	right	0.505	14.47	
1712.40	1312	UMTS 1750	RMC	12.47	0 mm	Antenna 2	1:1	left	0.001	41.50	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table A-4
DSI = 1 P_{Limit} Calculations – Antenna 4 UMTS 1750

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
1712.40	1312	UMTS 1750	RMC	13.26	0 mm	Antenna 4	1:1	back	0.690	13.90	
1732.40	1412	UMTS 1750	RMC	13.15	0 mm	Antenna 4	1:1	back	0.595	14.44	
1752.60	1513	UMTS 1750	RMC	12.90	0 mm	Antenna 4	1:1	back	0.650	13.80	
1712.40	1312	UMTS 1750	RMC	13.26	0 mm	Antenna 4	1:1	top	0.696	13.86	
1732.40	1412	UMTS 1750	RMC	13.15	0 mm	Antenna 4	1:1	top	0.651	14.05	13.80
1752.60	1513	UMTS 1750	RMC	12.90	0 mm	Antenna 4	1:1	top	0.622	13.99	
1712.40	1312	UMTS 1750	RMC	13.26	0 mm	Antenna 4	1:1	bottom	0.007	33.84	
1712.40	1312	UMTS 1750	RMC	13.26	0 mm	Antenna 4	1:1	right	0.057	24.73	
1712.40	1312	UMTS 1750	RMC	13.26	0 mm	Antenna 4	1:1	left	0.526	15.08	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table A-5
DSI = 1 P_{Limit} Calculations – Antenna 1b UMTS 1750

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
1712.40	1312	UMTS 1750	RMC	11.33	0 mm	Antenna 1b	1:1	back	0.729	11.73	11.71
1732.40	1412	UMTS 1750	RMC	11.34	0 mm	Antenna 1b	1:1	back	0.734	11.71	
1752.60	1513	UMTS 1750	RMC	11.31	0 mm	Antenna 1b	1:1	back	0.730	11.71	
1732.40	1412	UMTS 1750	RMC	11.34	0 mm	Antenna 1b	1:1	top	0.003	35.60	
1732.40	1412	UMTS 1750	RMC	11.34	0 mm	Antenna 1b	1:1	bottom	0.507	13.32	
1732.40	1412	UMTS 1750	RMC	11.34	0 mm	Antenna 1b	1:1	right	0.016	28.33	
1732.40	1412	UMTS 1750	RMC	11.34	0 mm	Antenna 1b	1:1	left	0.031	25.46	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table A-6
DSI = 1 P_{Limit} Calculations – Antenna 3b UMTS 1750

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
1712.40	1312	UMTS 1750	RMC	11.73	0 mm	Antenna 3b	1:1	back	0.675	12.47	12.24
1732.40	1412	UMTS 1750	RMC	11.70	0 mm	Antenna 3b	1:1	back	0.693	12.32	
1752.60	1513	UMTS 1750	RMC	11.72	0 mm	Antenna 3b	1:1	back	0.710	12.24	
1712.40	1312	UMTS 1750	RMC	11.73	0 mm	Antenna 3b	1:1	top	0.671	12.49	
1732.40	1412	UMTS 1750	RMC	11.70	0 mm	Antenna 3b	1:1	top	0.646	12.63	
1752.60	1513	UMTS 1750	RMC	11.72	0 mm	Antenna 3b	1:1	top	0.620	12.83	
1712.40	1312	UMTS 1750	RMC	11.73	0 mm	Antenna 3b	1:1	bottom	0.099	20.80	
1712.40	1312	UMTS 1750	RMC	11.73	0 mm	Antenna 3b	1:1	right	0.049	23.86	
1712.40	1312	UMTS 1750	RMC	11.73	0 mm	Antenna 3b	1:1	left	0.025	26.78	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table A-7
DSI = 1 P_{Limit} Calculations – Antenna 2 UMTS 1900

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
1880.00	9400	UMTS 1900	RMC	13.30	0 mm	Antenna 2	1:1	back	0.625	14.37	
1880.00	9400	UMTS 1900	RMC	13.30	0 mm	Antenna 2	1:1	top	0.012	31.54	
1880.00	9400	UMTS 1900	RMC	13.30	0 mm	Antenna 2	1:1	bottom	0.628	14.35	
1852.40	9262	UMTS 1900	RMC	13.22	0 mm	Antenna 2	1:1	right	0.717	13.70	13.70
1880.00	9400	UMTS 1900	RMC	13.30	0 mm	Antenna 2	1:1	right	0.694	13.92	
1907.60	9538	UMTS 1900	RMC	13.19	0 mm	Antenna 2	1:1	right	0.667	13.98	
1880.00	9400	UMTS 1900	RMC	13.30	0 mm	Antenna 2	1:1	left	0.005	35.34	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table A-8
DSI = 1 P_{Limit} Calculations – Antenna 4 UMTS 1900

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
1852.40	9262	UMTS 1900	RMC	12.32	0 mm	Antenna 4	1:1	back	0.491	14.44	
1852.40	9262	UMTS 1900	RMC	12.32	0 mm	Antenna 4	1:1	top	0.596	13.60	
1880.00	9400	UMTS 1900	RMC	12.17	0 mm	Antenna 4	1:1	top	0.592	13.48	
1907.60	9538	UMTS 1900	RMC	12.24	0 mm	Antenna 4	1:1	top	0.585	13.60	
1852.40	9262	UMTS 1900	RMC	12.32	0 mm	Antenna 4	1:1	bottom	0.000	41.35	13.06
1852.40	9262	UMTS 1900	RMC	12.32	0 mm	Antenna 4	1:1	right	0.000	41.35	
1852.40	9262	UMTS 1900	RMC	12.32	0 mm	Antenna 4	1:1	left	0.634	13.33	
1880.00	9400	UMTS 1900	RMC	12.17	0 mm	Antenna 4	1:1	left	0.642	13.13	
1907.60	9538	UMTS 1900	RMC	12.24	0 mm	Antenna 4	1:1	left	0.662	13.06	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table A-9
DSI = 1 P_{Limit} Calculations – Antenna 1b UMTS 1900

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
1852.40	9262	UMTS 1900	RMC	10.75	0 mm	Antenna 1b	1:1	back	0.700	11.33	11.30
1880.00	9400	UMTS 1900	RMC	10.80	0 mm	Antenna 1b	1:1	back	0.713	11.30	
1907.60	9538	UMTS 1900	RMC	10.63	0 mm	Antenna 1b	1:1	back	0.645	11.57	
1880.00	9400	UMTS 1900	RMC	10.80	0 mm	Antenna 1b	1:1	top	0.010	29.83	
1880.00	9400	UMTS 1900	RMC	10.80	0 mm	Antenna 1b	1:1	bottom	0.392	13.90	
1880.00	9400	UMTS 1900	RMC	10.80	0 mm	Antenna 1b	1:1	right	0.015	28.07	
1880.00	9400	UMTS 1900	RMC	10.80	0 mm	Antenna 1b	1:1	left	0.043	23.50	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table A-10
DSI = 1 P_{Limit} Calculations – Antenna 3b UMTS 1900

MEASUREMENT RESULTS											
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Duty Cycle	Side	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.								(W/kg)	[dBm]	[dBm]
1852.40	9262	UMTS 1900	RMC	11.32	0 mm	Antenna 3b	1:1	back	0.696	11.92	11.56
1880.00	9400	UMTS 1900	RMC	11.26	0 mm	Antenna 3b	1:1	back	0.709	11.78	
1907.60	9538	UMTS 1900	RMC	11.30	0 mm	Antenna 3b	1:1	back	0.754	11.56	
1852.40	9262	UMTS 1900	RMC	11.32	0 mm	Antenna 3b	1:1	top	0.615	12.46	
1880.00	9400	UMTS 1900	RMC	11.26	0 mm	Antenna 3b	1:1	top	0.633	12.28	
1907.60	9538	UMTS 1900	RMC	11.30	0 mm	Antenna 3b	1:1	top	0.647	12.22	
1852.40	9262	UMTS 1900	RMC	11.32	0 mm	Antenna 3b	1:1	bottom	0.004	34.33	
1852.40	9262	UMTS 1900	RMC	11.32	0 mm	Antenna 3b	1:1	right	0.046	23.72	
1852.40	9262	UMTS 1900	RMC	11.32	0 mm	Antenna 3b	1:1	left	0.015	28.59	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population				Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table A-11
DSI = 1 P_{Limit} Calculations – Antenna 2 LTE Band 71

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
680.50	133297	Mid	LTE Band 71	20	17.45	0	Antenna 2	QPSK	1	0	0 mm	back	1:1	0.678	18.17	
680.50	133297	Mid	LTE Band 71	20	17.47	0	Antenna 2	QPSK	50	0	0 mm	back	1:1	0.630	18.51	
680.50	133297	Mid	LTE Band 71	20	17.44	0	Antenna 2	QPSK	100	0	0 mm	back	1:1	0.671	18.20	
680.50	133297	Mid	LTE Band 71	20	17.45	0	Antenna 2	QPSK	1	0	0 mm	top	1:1	0.013	35.34	
680.50	133297	Mid	LTE Band 71	20	17.47	0	Antenna 2	QPSK	50	0	0 mm	top	1:1	0.012	35.71	
680.50	133297	Mid	LTE Band 71	20	17.45	0	Antenna 2	QPSK	1	0	0 mm	bottom	1:1	0.415	20.30	18.17
680.50	133297	Mid	LTE Band 71	20	17.47	0	Antenna 2	QPSK	50	0	0 mm	bottom	1:1	0.433	20.14	
680.50	133297	Mid	LTE Band 71	20	17.45	0	Antenna 2	QPSK	1	0	0 mm	right	1:1	0.361	20.91	
680.50	133297	Mid	LTE Band 71	20	17.47	0	Antenna 2	QPSK	50	0	0 mm	right	1:1	0.356	20.99	
680.50	133297	Mid	LTE Band 71	20	17.45	0	Antenna 2	QPSK	1	0	0 mm	left	1:1	0.038	30.68	
680.50	133297	Mid	LTE Band 71	20	17.47	0	Antenna 2	QPSK	50	0	0 mm	left	1:1	0.035	31.06	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-12
DSI = 1 P_{Limit} Calculations – Antenna 4 LTE Band 71

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
680.50	133297	Mid	LTE Band 71	20	19.33	0	Antenna 4	QPSK	1	0	0 mm	back	1:1	0.741	19.66	
680.50	133297	Mid	LTE Band 71	20	19.35	0	Antenna 4	QPSK	50	25	0 mm	back	1:1	0.652	20.24	
680.50	133297	Mid	LTE Band 71	20	19.30	0	Antenna 4	QPSK	100	0	0 mm	back	1:1	0.659	20.14	
680.50	133297	Mid	LTE Band 71	20	19.33	0	Antenna 4	QPSK	1	0	0 mm	top	1:1	0.336	23.10	
680.50	133297	Mid	LTE Band 71	20	19.35	0	Antenna 4	QPSK	50	25	0 mm	top	1:1	0.344	23.02	
680.50	133297	Mid	LTE Band 71	20	19.33	0	Antenna 4	QPSK	1	0	0 mm	bottom	1:1	0.026	34.21	19.66
680.50	133297	Mid	LTE Band 71	20	19.35	0	Antenna 4	QPSK	50	25	0 mm	bottom	1:1	0.025	34.40	
680.50	133297	Mid	LTE Band 71	20	19.33	0	Antenna 4	QPSK	1	0	0 mm	right	1:1	0.055	30.96	
680.50	133297	Mid	LTE Band 71	20	19.35	0	Antenna 4	QPSK	50	25	0 mm	right	1:1	0.067	30.12	
680.50	133297	Mid	LTE Band 71	20	19.33	0	Antenna 4	QPSK	1	0	0 mm	left	1:1	0.468	21.66	
680.50	133297	Mid	LTE Band 71	20	19.35	0	Antenna 4	QPSK	50	25	0 mm	left	1:1	0.434	22.01	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-13
DSI = 1 P_{Limit} Calculations – Antenna 2 LTE Band 12

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
707.50	23095	Mid	LTE Band 12	10	17.27	0	Antenna 2	QPSK	1	49	0 mm	back	1:1	0.643	18.22	
707.50	23095	Mid	LTE Band 12	10	17.38	0	Antenna 2	QPSK	25	25	0 mm	back	1:1	0.657	18.24	
707.50	23095	Mid	LTE Band 12	10	17.26	0	Antenna 2	QPSK	50	0	0 mm	back	1:1	0.670	18.03	
707.50	23095	Mid	LTE Band 12	10	17.27	0	Antenna 2	QPSK	1	49	0 mm	top	1:1	0.014	34.84	
707.50	23095	Mid	LTE Band 12	10	17.38	0	Antenna 2	QPSK	25	25	0 mm	top	1:1	0.012	35.62	
707.50	23095	Mid	LTE Band 12	10	17.27	0	Antenna 2	QPSK	1	49	0 mm	bottom	1:1	0.485	19.44	18.03
707.50	23095	Mid	LTE Band 12	10	17.38	0	Antenna 2	QPSK	25	25	0 mm	bottom	1:1	0.506	19.37	
707.50	23095	Mid	LTE Band 12	10	17.27	0	Antenna 2	QPSK	1	49	0 mm	right	1:1	0.519	19.15	
707.50	23095	Mid	LTE Band 12	10	17.38	0	Antenna 2	QPSK	25	25	0 mm	right	1:1	0.525	19.21	
707.50	23095	Mid	LTE Band 12	10	17.27	0	Antenna 2	QPSK	1	49	0 mm	left	1:1	0.045	29.77	
707.50	23095	Mid	LTE Band 12	10	17.38	0	Antenna 2	QPSK	25	25	0 mm	left	1:1	0.042	30.18	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-14
DSI = 1 P_{Limit} Calculations – Antenna 4 LTE Band 12

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
707.50	23095	Mid	LTE Band 12	10	17.51	0	Antenna 4	QPSK	1	0	0 mm	back	1:1	0.580	18.91	
707.50	23095	Mid	LTE Band 12	10	17.72	0	Antenna 4	QPSK	25	12	0 mm	back	1:1	0.588	19.06	
707.50	23095	Mid	LTE Band 12	10	17.51	0	Antenna 4	QPSK	1	0	0 mm	top	1:1	0.299	21.78	
707.50	23095	Mid	LTE Band 12	10	17.72	0	Antenna 4	QPSK	25	12	0 mm	top	1:1	0.305	21.91	
707.50	23095	Mid	LTE Band 12	10	17.51	0	Antenna 4	QPSK	1	0	0 mm	bottom	1:1	0.018	33.99	18.91
707.50	23095	Mid	LTE Band 12	10	17.72	0	Antenna 4	QPSK	25	12	0 mm	bottom	1:1	0.020	33.74	
707.50	23095	Mid	LTE Band 12	10	17.51	0	Antenna 4	QPSK	1	0	0 mm	right	1:1	0.028	32.07	
707.50	23095	Mid	LTE Band 12	10	17.72	0	Antenna 4	QPSK	25	12	0 mm	right	1:1	0.033	31.57	
707.50	23095	Mid	LTE Band 12	10	17.51	0	Antenna 4	QPSK	1	0	0 mm	left	1:1	0.359	20.99	
707.50	23095	Mid	LTE Band 12	10	17.72	0	Antenna 4	QPSK	25	12	0 mm	left	1:1	0.382	20.93	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-15
DSI = 1 P_{Limit} Calculations – Antenna 2 LTE Band 13

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
782.00	23230	Mid	LTE Band 13	10	16.98	0	Antenna 2	QPSK	1	0	0 mm	back	1:1	0.663	17.80	
782.00	23230	Mid	LTE Band 13	10	17.15	0	Antenna 2	QPSK	25	12	0 mm	back	1:1	0.658	18.00	
782.00	23230	Mid	LTE Band 13	10	16.97	0	Antenna 2	QPSK	50	0	0 mm	back	1:1	0.669	17.75	
782.00	23230	Mid	LTE Band 13	10	16.98	0	Antenna 2	QPSK	1	0	0 mm	top	1:1	0.021	32.79	
782.00	23230	Mid	LTE Band 13	10	17.15	0	Antenna 2	QPSK	25	12	0 mm	top	1:1	0.020	33.17	
782.00	23230	Mid	LTE Band 13	10	16.98	0	Antenna 2	QPSK	1	0	0 mm	bottom	1:1	0.496	19.06	17.75
782.00	23230	Mid	LTE Band 13	10	17.15	0	Antenna 2	QPSK	25	12	0 mm	bottom	1:1	0.534	18.91	
782.00	23230	Mid	LTE Band 13	10	16.98	0	Antenna 2	QPSK	1	0	0 mm	right	1:1	0.466	19.33	
782.00	23230	Mid	LTE Band 13	10	17.15	0	Antenna 2	QPSK	25	12	0 mm	right	1:1	0.468	19.48	
782.00	23230	Mid	LTE Band 13	10	16.98	0	Antenna 2	QPSK	1	0	0 mm	left	1:1	0.042	29.78	
782.00	23230	Mid	LTE Band 13	10	17.15	0	Antenna 2	QPSK	25	12	0 mm	left	1:1	0.038	30.38	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-16
DSI = 1 P_{Limit} Calculations – Antenna 4 LTE Band 13

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
782.00	23230	Mid	LTE Band 13	10	17.99	0	Antenna 4	QPSK	1	0	0 mm	back	1:1	0.657	18.85	
782.00	23230	Mid	LTE Band 13	10	18.10	0	Antenna 4	QPSK	25	0	0 mm	back	1:1	0.650	19.00	
782.00	23230	Mid	LTE Band 13	10	17.98	0	Antenna 4	QPSK	50	0	0 mm	back	1:1	0.698	18.57	
782.00	23230	Mid	LTE Band 13	10	17.99	0	Antenna 4	QPSK	1	0	0 mm	top	1:1	0.364	21.41	
782.00	23230	Mid	LTE Band 13	10	18.10	0	Antenna 4	QPSK	25	0	0 mm	top	1:1	0.363	21.53	
782.00	23230	Mid	LTE Band 13	10	17.99	0	Antenna 4	QPSK	1	0	0 mm	bottom	1:1	0.020	34.01	18.57
782.00	23230	Mid	LTE Band 13	10	18.10	0	Antenna 4	QPSK	25	0	0 mm	bottom	1:1	0.020	34.12	
782.00	23230	Mid	LTE Band 13	10	17.99	0	Antenna 4	QPSK	1	0	0 mm	right	1:1	0.049	30.12	
782.00	23230	Mid	LTE Band 13	10	18.10	0	Antenna 4	QPSK	25	0	0 mm	right	1:1	0.052	29.97	
782.00	23230	Mid	LTE Band 13	10	17.99	0	Antenna 4	QPSK	1	0	0 mm	left	1:1	0.490	20.12	
782.00	23230	Mid	LTE Band 13	10	18.10	0	Antenna 4	QPSK	25	0	0 mm	left	1:1	0.502	20.12	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-17
DSI = 1 P_{Limit} Calculations – Antenna 2 LTE Band 14

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
793.00	23330	Mid	LTE Band 14	10	17.14	0	Antenna 2	QPSK	1	0	0 mm	back	1:1	0.482	19.34	
793.00	23330	Mid	LTE Band 14	10	17.31	0	Antenna 2	QPSK	25	12	0 mm	back	1:1	0.475	19.57	
793.00	23330	Mid	LTE Band 14	10	17.14	0	Antenna 2	QPSK	1	0	0 mm	top	1:1	0.009	36.63	
793.00	23330	Mid	LTE Band 14	10	17.31	0	Antenna 2	QPSK	25	12	0 mm	top	1:1	0.007	37.89	
793.00	23330	Mid	LTE Band 14	10	17.14	0	Antenna 2	QPSK	1	0	0 mm	bottom	1:1	0.536	18.88	18.88
793.00	23330	Mid	LTE Band 14	10	17.31	0	Antenna 2	QPSK	25	12	0 mm	bottom	1:1	0.555	18.90	
793.00	23330	Mid	LTE Band 14	10	17.14	0	Antenna 2	QPSK	1	0	0 mm	right	1:1	0.453	19.61	
793.00	23330	Mid	LTE Band 14	10	17.31	0	Antenna 2	QPSK	25	12	0 mm	right	1:1	0.448	19.83	
793.00	23330	Mid	LTE Band 14	10	17.14	0	Antenna 2	QPSK	1	0	0 mm	left	1:1	0.026	32.02	
793.00	23330	Mid	LTE Band 14	10	17.31	0	Antenna 2	QPSK	25	12	0 mm	left	1:1	0.032	31.29	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-18
DSI = 1 P_{Limit} Calculations – Antenna 4 LTE Band 14

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
793.00	23330	Mid	LTE Band 14	10	18.80	0	Antenna 4	QPSK	1	0	0 mm	back	1:1	0.786	18.88	
793.00	23330	Mid	LTE Band 14	10	18.77	0	Antenna 4	QPSK	25	12	0 mm	back	1:1	0.841	18.55	
793.00	23330	Mid	LTE Band 14	10	18.74	0	Antenna 4	QPSK	50	0	0 mm	back	1:1	0.834	18.56	
793.00	23330	Mid	LTE Band 14	10	18.80	0	Antenna 4	QPSK	1	0	0 mm	top	1:1	0.534	20.56	
793.00	23330	Mid	LTE Band 14	10	18.77	0	Antenna 4	QPSK	25	12	0 mm	top	1:1	0.583	20.14	
793.00	23330	Mid	LTE Band 14	10	18.80	0	Antenna 4	QPSK	1	0	0 mm	bottom	1:1	0.012	37.04	18.55
793.00	23330	Mid	LTE Band 14	10	18.77	0	Antenna 4	QPSK	25	12	0 mm	bottom	1:1	0.008	38.77	
793.00	23330	Mid	LTE Band 14	10	18.80	0	Antenna 4	QPSK	1	0	0 mm	right	1:1	0.045	31.30	
793.00	23330	Mid	LTE Band 14	10	18.77	0	Antenna 4	QPSK	25	12	0 mm	right	1:1	0.052	30.64	
793.00	23330	Mid	LTE Band 14	10	18.80	0	Antenna 4	QPSK	1	0	0 mm	left	1:1	0.671	19.56	
793.00	23330	Mid	LTE Band 14	10	18.77	0	Antenna 4	QPSK	25	12	0 mm	left	1:1	0.689	19.42	
793.00	23330	Mid	LTE Band 14	10	18.74	0	Antenna 4	QPSK	50	0	0 mm	left	1:1	0.677	19.47	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-19
DSI = 1 P_{Limit} Calculations – Antenna 2 LTE Band 26

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
819.00	26740	Low	LTE Band 26 (Cell)	10	16.49	0	Antenna 2	QPSK	1	0	0 mm	back	1:1	0.662	17.31	
831.50	26865	Mid	LTE Band 26 (Cell)	10	16.34	0	Antenna 2	QPSK	1	49	0 mm	back	1:1	0.564	17.86	
844.00	26990	High	LTE Band 26 (Cell)	10	16.36	0	Antenna 2	QPSK	1	49	0 mm	back	1:1	0.524	18.20	
819.00	26740	Low	LTE Band 26 (Cell)	10	16.63	0	Antenna 2	QPSK	25	12	0 mm	back	1:1	0.652	17.52	
831.50	26865	Mid	LTE Band 26 (Cell)	10	16.51	0	Antenna 2	QPSK	25	12	0 mm	back	1:1	0.605	17.72	
844.00	26990	High	LTE Band 26 (Cell)	10	16.57	0	Antenna 2	QPSK	25	12	0 mm	back	1:1	0.561	18.11	
819.00	26740	Low	LTE Band 26 (Cell)	10	16.36	0	Antenna 2	QPSK	50	0	0 mm	back	1:1	0.614	17.51	
819.00	26740	Low	LTE Band 26 (Cell)	10	16.49	0	Antenna 2	QPSK	1	0	0 mm	top	1:1	0.009	35.98	17.31
819.00	26740	Low	LTE Band 26 (Cell)	10	16.63	0	Antenna 2	QPSK	25	12	0 mm	top	1:1	0.012	34.87	
819.00	26740	Low	LTE Band 26 (Cell)	10	16.49	0	Antenna 2	QPSK	1	0	0 mm	bottom	1:1	0.391	19.60	
819.00	26740	Low	LTE Band 26 (Cell)	10	16.63	0	Antenna 2	QPSK	25	12	0 mm	bottom	1:1	0.406	19.58	
819.00	26740	Low	LTE Band 26 (Cell)	10	16.49	0	Antenna 2	QPSK	1	0	0 mm	right	1:1	0.297	20.79	
819.00	26740	Low	LTE Band 26 (Cell)	10	16.63	0	Antenna 2	QPSK	25	12	0 mm	right	1:1	0.317	20.65	
819.00	26740	Low	LTE Band 26 (Cell)	10	16.49	0	Antenna 2	QPSK	1	0	0 mm	left	1:1	0.021	32.30	
819.00	26740	Low	LTE Band 26 (Cell)	10	16.63	0	Antenna 2	QPSK	25	12	0 mm	left	1:1	0.023	32.04	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-20
DSI = 1 P_{Limit} Calculations – Antenna 4 LTE Band 26

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
819.00	26740	Low	LTE Band 26 (Cell)	10	17.40	0	Antenna 4	QPSK	1	0	0 mm	back	1:1	0.690	18.04	
831.50	26865	Mid	LTE Band 26 (Cell)	10	17.48	0	Antenna 4	QPSK	1	0	0 mm	back	1:1	0.625	18.55	
844.00	26990	High	LTE Band 26 (Cell)	10	17.60	0	Antenna 4	QPSK	1	25	0 mm	back	1:1	0.634	18.61	
819.00	26740	Low	LTE Band 26 (Cell)	10	17.70	0	Antenna 4	QPSK	25	12	0 mm	back	1:1	0.733	18.08	
831.50	26865	Mid	LTE Band 26 (Cell)	10	17.62	0	Antenna 4	QPSK	25	12	0 mm	back	1:1	0.642	18.58	
844.00	26990	High	LTE Band 26 (Cell)	10	17.73	0	Antenna 4	QPSK	25	12	0 mm	back	1:1	0.657	18.59	
844.00	26990	High	LTE Band 26 (Cell)	10	17.59	0	Antenna 4	QPSK	50	0	0 mm	back	1:1	0.643	18.54	
844.00	26990	High	LTE Band 26 (Cell)	10	17.60	0	Antenna 4	QPSK	1	25	0 mm	top	1:1	0.465	19.96	18.04
844.00	26990	High	LTE Band 26 (Cell)	10	17.73	0	Antenna 4	QPSK	25	12	0 mm	top	1:1	0.491	19.85	
844.00	26990	High	LTE Band 26 (Cell)	10	17.60	0	Antenna 4	QPSK	1	25	0 mm	bottom	1:1	0.016	34.59	
844.00	26990	High	LTE Band 26 (Cell)	10	17.73	0	Antenna 4	QPSK	25	12	0 mm	bottom	1:1	0.017	34.46	
844.00	26990	High	LTE Band 26 (Cell)	10	17.60	0	Antenna 4	QPSK	1	25	0 mm	right	1:1	0.047	29.91	
844.00	26990	High	LTE Band 26 (Cell)	10	17.73	0	Antenna 4	QPSK	25	12	0 mm	right	1:1	0.051	29.69	
844.00	26990	High	LTE Band 26 (Cell)	10	17.60	0	Antenna 4	QPSK	1	25	0 mm	left	1:1	0.481	19.81	
844.00	26990	High	LTE Band 26 (Cell)	10	17.73	0	Antenna 4	QPSK	25	12	0 mm	left	1:1	0.500	19.77	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-21
DSI = 1 P_{Limit} Calculations – Antenna 2 LTE Band 5

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.44	0	Antenna 2	QPSK	1	49	0 mm	back	1:1	0.583	17.81	17.58
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.48	0	Antenna 2	QPSK	25	12	0 mm	back	1:1	0.621	17.58	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.42	0	Antenna 2	QPSK	50	0	0 mm	back	1:1	0.584	17.79	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.44	0	Antenna 2	QPSK	1	49	0 mm	top	1:1	0.011	35.06	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.48	0	Antenna 2	QPSK	25	12	0 mm	top	1:1	0.012	34.72	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.44	0	Antenna 2	QPSK	1	49	0 mm	bottom	1:1	0.404	19.41	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.48	0	Antenna 2	QPSK	25	12	0 mm	bottom	1:1	0.422	19.26	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.44	0	Antenna 2	QPSK	1	49	0 mm	right	1:1	0.327	20.33	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.48	0	Antenna 2	QPSK	25	12	0 mm	right	1:1	0.343	20.16	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.44	0	Antenna 2	QPSK	1	49	0 mm	left	1:1	0.040	29.45	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.48	0	Antenna 2	QPSK	25	12	0 mm	left	1:1	0.036	29.95	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-22
DSI = 1 P_{Limit} Calculations – Antenna 4 LTE Band 5

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.51	0	Antenna 4	QPSK	1	0	0 mm	back	1:1	0.658	18.36	18.04
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.62	0	Antenna 4	QPSK	25	12	0 mm	back	1:1	0.666	18.42	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.50	0	Antenna 4	QPSK	50	0	0 mm	back	1:1	0.706	18.04	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.51	0	Antenna 4	QPSK	1	0	0 mm	top	1:1	0.433	20.18	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.62	0	Antenna 4	QPSK	25	12	0 mm	top	1:1	0.450	20.12	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.51	0	Antenna 4	QPSK	1	0	0 mm	bottom	1:1	0.015	34.78	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.62	0	Antenna 4	QPSK	25	12	0 mm	bottom	1:1	0.015	34.89	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.51	0	Antenna 4	QPSK	1	0	0 mm	right	1:1	0.045	30.01	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.62	0	Antenna 4	QPSK	25	12	0 mm	right	1:1	0.048	29.84	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.51	0	Antenna 4	QPSK	1	0	0 mm	left	1:1	0.490	19.64	
836.50	20525	Mid	LTE Band 5 (Cell)	10	17.62	0	Antenna 4	QPSK	25	12	0 mm	left	1:1	0.509	19.58	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-23
DSI = 1 P_{Limit} Calculations – Antenna 1b LTE Band 66

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.30	0	Antenna 1b	QPSK	1	0	0 mm	back	1:1	0.689	11.95	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	11.28	0	Antenna 1b	QPSK	1	0	0 mm	back	1:1	0.679	11.99	
1770.00	132572	High	LTE Band 66 (AWS)	20	11.20	0	Antenna 1b	QPSK	1	0	0 mm	back	1:1	0.709	11.72	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.36	0	Antenna 1b	QPSK	50	25	0 mm	back	1:1	0.699	11.95	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	11.30	0	Antenna 1b	QPSK	50	25	0 mm	back	1:1	0.715	11.79	
1770.00	132572	High	LTE Band 66 (AWS)	20	11.35	0	Antenna 1b	QPSK	50	25	0 mm	back	1:1	0.738	11.70	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.29	0	Antenna 1b	QPSK	100	0	0 mm	back	1:1	0.713	11.79	11.70
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.30	0	Antenna 1b	QPSK	1	0	0 mm	top	1:1	0.002	37.32	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.36	0	Antenna 1b	QPSK	50	25	0 mm	top	1:1	0.003	35.62	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.30	0	Antenna 1b	QPSK	1	0	0 mm	bottom	1:1	0.524	13.14	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.36	0	Antenna 1b	QPSK	50	25	0 mm	bottom	1:1	0.520	13.23	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.30	0	Antenna 1b	QPSK	1	0	0 mm	right	1:1	0.020	27.32	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.36	0	Antenna 1b	QPSK	50	25	0 mm	right	1:1	0.015	28.63	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.30	0	Antenna 1b	QPSK	1	0	0 mm	left	1:1	0.036	24.77	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.36	0	Antenna 1b	QPSK	50	25	0 mm	left	1:1	0.038	24.59	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-24
DSI = 1 P_{Limit} Calculations – Antenna 2 LTE Band 66

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.30	0	Antenna 2	QPSK	1	50	0 mm	back	1:1	0.572	14.76	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.28	0	Antenna 2	QPSK	50	25	0 mm	back	1:1	0.593	14.58	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.30	0	Antenna 2	QPSK	1	50	0 mm	top	1:1	0.010	32.33	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.28	0	Antenna 2	QPSK	50	25	0 mm	top	1:1	0.009	32.77	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.30	0	Antenna 2	QPSK	1	50	0 mm	bottom	1:1	0.646	14.23	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.28	0	Antenna 2	QPSK	50	25	0 mm	bottom	1:1	0.711	13.79	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.26	0	Antenna 2	QPSK	50	25	0 mm	bottom	1:1	0.646	14.19	13.79
1770.00	132572	High	LTE Band 66 (AWS)	20	13.26	0	Antenna 2	QPSK	50	25	0 mm	bottom	1:1	0.582	14.64	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.25	0	Antenna 2	QPSK	100	0	0 mm	bottom	1:1	0.557	14.82	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.30	0	Antenna 2	QPSK	1	50	0 mm	right	1:1	0.629	14.34	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.28	0	Antenna 2	QPSK	50	25	0 mm	right	1:1	0.595	14.57	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.30	0	Antenna 2	QPSK	1	50	0 mm	left	1:1	0.002	39.32	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.28	0	Antenna 2	QPSK	50	25	0 mm	left	1:1	0.004	36.29	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-25
DSI = 1 P_{Limit} Calculations – Antenna 3b LTE Band 66

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.77	0	Antenna 3b	QPSK	1	0	0 mm	back	1:1	0.668	12.55	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	11.69	0	Antenna 3b	QPSK	1	0	0 mm	back	1:1	0.661	12.52	
1770.00	132572	High	LTE Band 66 (AWS)	20	11.67	0	Antenna 3b	QPSK	1	50	0 mm	back	1:1	0.682	12.36	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.85	0	Antenna 3b	QPSK	50	25	0 mm	back	1:1	0.657	12.71	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	11.71	0	Antenna 3b	QPSK	50	0	0 mm	back	1:1	0.677	12.43	
1770.00	132572	High	LTE Band 66 (AWS)	20	11.70	0	Antenna 3b	QPSK	50	25	0 mm	back	1:1	0.697	12.30	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.76	0	Antenna 3b	QPSK	100	0	0 mm	back	1:1	0.670	12.53	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.77	0	Antenna 3b	QPSK	1	0	0 mm	top	1:1	0.689	12.42	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	11.69	0	Antenna 3b	QPSK	1	0	0 mm	top	1:1	0.703	12.25	
1770.00	132572	High	LTE Band 66 (AWS)	20	11.67	0	Antenna 3b	QPSK	1	50	0 mm	top	1:1	0.665	12.47	12.25
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.85	0	Antenna 3b	QPSK	50	25	0 mm	top	1:1	0.709	12.37	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	11.71	0	Antenna 3b	QPSK	50	0	0 mm	top	1:1	0.700	12.29	
1770.00	132572	High	LTE Band 66 (AWS)	20	11.70	0	Antenna 3b	QPSK	50	25	0 mm	top	1:1	0.687	12.36	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.76	0	Antenna 3b	QPSK	100	0	0 mm	top	1:1	0.713	12.26	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.77	0	Antenna 3b	QPSK	1	0	0 mm	bottom	1:1	0.014	29.34	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.85	0	Antenna 3b	QPSK	50	25	0 mm	bottom	1:1	0.013	29.74	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.77	0	Antenna 3b	QPSK	1	0	0 mm	right	1:1	0.054	23.48	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.85	0	Antenna 3b	QPSK	50	25	0 mm	right	1:1	0.054	23.56	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.77	0	Antenna 3b	QPSK	1	0	0 mm	left	1:1	0.029	26.18	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.85	0	Antenna 3b	QPSK	50	25	0 mm	left	1:1	0.028	26.41	

ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population	Body 1.6 W/kg (mW/g) averaged over 1 gram

Table A-26
DSI = 1 P_{Limit} Calculations – Antenna 4 LTE Band 66

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.52	0	Antenna 4	QPSK	1	0	0 mm	back	1:1	0.667	14.31	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.39	0	Antenna 4	QPSK	1	0	0 mm	back	1:1	0.670	14.16	
1770.00	132572	High	LTE Band 66 (AWS)	20	13.30	0	Antenna 4	QPSK	1	0	0 mm	back	1:1	0.629	14.34	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.54	0	Antenna 4	QPSK	50	0	0 mm	back	1:1	0.763	13.75	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.56	0	Antenna 4	QPSK	50	25	0 mm	back	1:1	0.690	14.20	
1770.00	132572	High	LTE Band 66 (AWS)	20	13.47	0	Antenna 4	QPSK	50	0	0 mm	back	1:1	0.629	14.51	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.47	0	Antenna 4	QPSK	100	0	0 mm	back	1:1	0.675	14.21	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.52	0	Antenna 4	QPSK	1	0	0 mm	top	1:1	0.810	13.47	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.39	0	Antenna 4	QPSK	1	0	0 mm	top	1:1	0.801	13.38	
1770.00	132572	High	LTE Band 66 (AWS)	20	13.30	0	Antenna 4	QPSK	1	0	0 mm	top	1:1	0.791	13.35	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.54	0	Antenna 4	QPSK	50	0	0 mm	top	1:1	0.822	13.42	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.56	0	Antenna 4	QPSK	50	25	0 mm	top	1:1	0.816	13.47	
1770.00	132572	High	LTE Band 66 (AWS)	20	13.47	0	Antenna 4	QPSK	50	0	0 mm	top	1:1	0.823	13.35	13.35
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.47	0	Antenna 4	QPSK	100	0	0 mm	top	1:1	0.799	13.48	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.52	0	Antenna 4	QPSK	1	0	0 mm	bottom	1:1	0.010	32.55	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.56	0	Antenna 4	QPSK	50	25	0 mm	bottom	1:1	0.010	32.59	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.52	0	Antenna 4	QPSK	1	0	0 mm	right	1:1	0.005	35.56	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.56	0	Antenna 4	QPSK	50	25	0 mm	right	1:1	0.002	39.58	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.52	0	Antenna 4	QPSK	1	0	0 mm	left	1:1	0.684	14.20	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.39	0	Antenna 4	QPSK	1	0	0 mm	left	1:1	0.714	13.88	
1770.00	132572	High	LTE Band 66 (AWS)	20	13.30	0	Antenna 4	QPSK	1	0	0 mm	left	1:1	0.699	13.89	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.54	0	Antenna 4	QPSK	50	0	0 mm	left	1:1	0.703	14.10	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	13.56	0	Antenna 4	QPSK	50	25	0 mm	left	1:1	0.715	14.05	
1770.00	132572	High	LTE Band 66 (AWS)	20	13.47	0	Antenna 4	QPSK	50	0	0 mm	left	1:1	0.718	13.94	
1720.00	132072	Low	LTE Band 66 (AWS)	20	13.47	0	Antenna 4	QPSK	100	0	0 mm	left	1:1	0.686	14.14	

ANSI / IEEE C95.1 1992 - SAFETY LIMIT **Spatial Peak** **Uncontrolled Exposure/General Population**	**Body** **1.6 W/kg (mW/g)** averaged over 1 gram

Table A-27
DSI = 1 P_{Limit} Calculations – Antenna 1b LTE Band 25

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
1860.00	26140	Low	LTE Band 25 (PCS)	20	10.75	0	Antenna 1b	QPSK	1	0	0 mm	back	1:1	0.809	10.70	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	10.95	0	Antenna 1b	QPSK	1	50	0 mm	back	1:1	0.782	11.05	
1905.00	26590	High	LTE Band 25 (PCS)	20	10.86	0	Antenna 1b	QPSK	1	0	0 mm	back	1:1	0.750	11.14	
1860.00	26140	Low	LTE Band 25 (PCS)	20	10.97	0	Antenna 1b	QPSK	50	25	0 mm	back	1:1	0.803	10.95	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	10.98	0	Antenna 1b	QPSK	50	0	0 mm	back	1:1	0.803	10.96	
1905.00	26590	High	LTE Band 25 (PCS)	20	10.93	0	Antenna 1b	QPSK	50	50	0 mm	back	1:1	0.760	11.15	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	10.94	0	Antenna 1b	QPSK	100	0	0 mm	back	1:1	0.774	11.08	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	10.95	0	Antenna 1b	QPSK	1	50	0 mm	top	1:1	0.008	30.95	10.70
1882.50	26365	Mid	LTE Band 25 (PCS)	20	10.98	0	Antenna 1b	QPSK	50	0	0 mm	top	1:1	0.009	30.47	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	10.95	0	Antenna 1b	QPSK	1	50	0 mm	bottom	1:1	0.430	13.65	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	10.98	0	Antenna 1b	QPSK	50	0	0 mm	bottom	1:1	0.452	13.46	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	10.95	0	Antenna 1b	QPSK	1	50	0 mm	right	1:1	0.008	30.95	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	10.98	0	Antenna 1b	QPSK	50	0	0 mm	right	1:1	0.009	30.47	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	10.95	0	Antenna 1b	QPSK	1	50	0 mm	left	1:1	0.038	24.18	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	10.98	0	Antenna 1b	QPSK	50	0	0 mm	left	1:1	0.039	24.10	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-28
DSI = 1 P_{Limit} Calculations – Antenna 2 LTE Band 25

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.00	0	Antenna 2	QPSK	1	0	0 mm	back	1:1	0.674	13.74	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.92	0	Antenna 2	QPSK	1	0	0 mm	back	1:1	0.638	13.90	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.95	0	Antenna 2	QPSK	1	99	0 mm	back	1:1	0.566	14.45	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.11	0	Antenna 2	QPSK	50	25	0 mm	back	1:1	0.673	13.86	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.99	0	Antenna 2	QPSK	100	0	0 mm	back	1:1	0.653	13.87	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.00	0	Antenna 2	QPSK	1	0	0 mm	top	1:1	0.011	31.62	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.11	0	Antenna 2	QPSK	50	25	0 mm	top	1:1	0.012	31.35	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.00	0	Antenna 2	QPSK	1	0	0 mm	bottom	1:1	0.554	14.60	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.11	0	Antenna 2	QPSK	50	25	0 mm	bottom	1:1	0.550	14.74	13.31
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.00	0	Antenna 2	QPSK	1	0	0 mm	right	1:1	0.713	13.50	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.92	0	Antenna 2	QPSK	1	0	0 mm	right	1:1	0.732	13.31	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.95	0	Antenna 2	QPSK	1	99	0 mm	right	1:1	0.643	13.90	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.11	0	Antenna 2	QPSK	50	25	0 mm	right	1:1	0.724	13.54	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.95	0	Antenna 2	QPSK	50	50	0 mm	right	1:1	0.707	13.49	
1905.00	26590	High	LTE Band 25 (PCS)	20	13.06	0	Antenna 2	QPSK	50	25	0 mm	right	1:1	0.688	13.71	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.99	0	Antenna 2	QPSK	100	0	0 mm	right	1:1	0.709	13.51	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.00	0	Antenna 2	QPSK	1	0	0 mm	left	1:1	0.010	32.03	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.11	0	Antenna 2	QPSK	50	25	0 mm	left	1:1	0.009	32.60	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-29
DSI = 1 P_{Limit} Calculations – Antenna 3b LTE Band 25

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
1860.00	26140	Low	LTE Band 25 (PCS)	20	11.97	0	Antenna 3b	QPSK	1	0	0 mm	back	1:1	0.791	12.02	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.18	0	Antenna 3b	QPSK	1	50	0 mm	back	1:1	0.739	12.52	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.08	0	Antenna 3b	QPSK	1	0	0 mm	back	1:1	0.747	12.38	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.22	0	Antenna 3b	QPSK	50	25	0 mm	back	1:1	0.790	12.27	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.23	0	Antenna 3b	QPSK	50	25	0 mm	back	1:1	0.768	12.41	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.14	0	Antenna 3b	QPSK	50	0	0 mm	back	1:1	0.776	12.27	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.15	0	Antenna 3b	QPSK	100	0	0 mm	back	1:1	0.760	12.37	
1860.00	26140	Low	LTE Band 25 (PCS)	20	11.97	0	Antenna 3b	QPSK	1	0	0 mm	top	1:1	0.683	12.66	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.18	0	Antenna 3b	QPSK	1	50	0 mm	top	1:1	0.657	13.04	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.08	0	Antenna 3b	QPSK	1	0	0 mm	top	1:1	0.665	12.88	12.02
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.22	0	Antenna 3b	QPSK	50	25	0 mm	top	1:1	0.679	12.93	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.23	0	Antenna 3b	QPSK	50	25	0 mm	top	1:1	0.679	12.94	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.14	0	Antenna 3b	QPSK	50	0	0 mm	top	1:1	0.678	12.86	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.15	0	Antenna 3b	QPSK	100	0	0 mm	top	1:1	0.682	12.84	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.18	0	Antenna 3b	QPSK	1	50	0 mm	bottom	1:1	0.002	38.20	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.23	0	Antenna 3b	QPSK	50	25	0 mm	bottom	1:1	0.002	38.25	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.18	0	Antenna 3b	QPSK	1	50	0 mm	right	1:1	0.056	23.73	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.23	0	Antenna 3b	QPSK	50	25	0 mm	right	1:1	0.058	23.63	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.18	0	Antenna 3b	QPSK	1	50	0 mm	left	1:1	0.017	28.91	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.23	0	Antenna 3b	QPSK	50	25	0 mm	left	1:1	0.018	28.71	

ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population	Body 1.6 W/kg (mW/g) averaged over 1 gram

Table A-30
DSI = 1 P_{Limit} Calculations – Antenna 4 LTE Band 25

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.94	0	Antenna 4	QPSK	1	0	0 mm	back	1:1	0.540	14.65	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.09	0	Antenna 4	QPSK	50	0	0 mm	back	1:1	0.559	14.65	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.94	0	Antenna 4	QPSK	1	0	0 mm	top	1:1	0.641	13.90	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.93	0	Antenna 4	QPSK	1	99	0 mm	top	1:1	0.644	13.87	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.93	0	Antenna 4	QPSK	1	99	0 mm	top	1:1	0.624	14.01	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.09	0	Antenna 4	QPSK	50	0	0 mm	top	1:1	0.660	13.93	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.02	0	Antenna 4	QPSK	50	50	0 mm	top	1:1	0.663	13.84	
1905.00	26590	High	LTE Band 25 (PCS)	20	13.08	0	Antenna 4	QPSK	50	25	0 mm	top	1:1	0.659	13.92	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.93	0	Antenna 4	QPSK	100	0	0 mm	top	1:1	0.655	13.80	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.94	0	Antenna 4	QPSK	1	0	0 mm	bottom	1:1	0.002	38.96	13.51
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.09	0	Antenna 4	QPSK	50	0	0 mm	bottom	1:1	0.002	39.11	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.94	0	Antenna 4	QPSK	1	0	0 mm	right	1:1	0.001	41.97	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.09	0	Antenna 4	QPSK	50	0	0 mm	right	1:1	0.001	42.12	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.94	0	Antenna 4	QPSK	1	0	0 mm	left	1:1	0.673	13.69	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	12.93	0	Antenna 4	QPSK	1	99	0 mm	left	1:1	0.697	13.53	
1905.00	26590	High	LTE Band 25 (PCS)	20	12.93	0	Antenna 4	QPSK	1	99	0 mm	left	1:1	0.700	13.51	
1860.00	26140	Low	LTE Band 25 (PCS)	20	13.09	0	Antenna 4	QPSK	50	0	0 mm	left	1:1	0.696	13.69	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	13.02	0	Antenna 4	QPSK	50	50	0 mm	left	1:1	0.712	13.53	
1905.00	26590	High	LTE Band 25 (PCS)	20	13.08	0	Antenna 4	QPSK	50	25	0 mm	left	1:1	0.724	13.51	
1860.00	26140	Low	LTE Band 25 (PCS)	20	12.93	0	Antenna 4	QPSK	100	0	0 mm	left	1:1	0.699	13.52	

ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population	Body 1.6 W/kg (mW/g) averaged over 1 gram

Table A-31
DSI = 1 P_{Limit} Calculations – Antenna 1b LTE Band 30

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2310.00	27710	Mid	LTE Band 30	10	11.72	0	Antenna 1b	QPSK	1	0	0 mm	back	1:1	0.759	11.95	
2310.00	27710	Mid	LTE Band 30	10	11.98	0	Antenna 1b	QPSK	25	12	0 mm	back	1:1	0.764	12.18	
2310.00	27710	Mid	LTE Band 30	10	11.70	0	Antenna 1b	QPSK	50	0	0 mm	back	1:1	0.751	11.97	
2310.00	27710	Mid	LTE Band 30	10	11.72	0	Antenna 1b	QPSK	1	0	0 mm	top	1:1	0.046	24.12	
2310.00	27710	Mid	LTE Band 30	10	11.98	0	Antenna 1b	QPSK	25	12	0 mm	top	1:1	0.039	25.10	
2310.00	27710	Mid	LTE Band 30	10	11.72	0	Antenna 1b	QPSK	1	0	0 mm	bottom	1:1	0.602	12.95	11.95
2310.00	27710	Mid	LTE Band 30	10	11.98	0	Antenna 1b	QPSK	25	12	0 mm	bottom	1:1	0.634	12.99	
2310.00	27710	Mid	LTE Band 30	10	11.72	0	Antenna 1b	QPSK	1	0	0 mm	right	1:1	0.033	25.57	
2310.00	27710	Mid	LTE Band 30	10	11.98	0	Antenna 1b	QPSK	25	12	0 mm	right	1:1	0.040	24.99	
2310.00	27710	Mid	LTE Band 30	10	11.72	0	Antenna 1b	QPSK	1	0	0 mm	left	1:1	0.026	26.60	
2310.00	27710	Mid	LTE Band 30	10	11.98	0	Antenna 1b	QPSK	25	12	0 mm	left	1:1	0.028	26.54	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-32
DSI = 1 P_{Limit} Calculations – Antenna 2 LTE Band 30

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2310.00	27710	Mid	LTE Band 30	10	12.67	0	Antenna 2	QPSK	1	0	0 mm	back	1:1	0.763	12.88	
2310.00	27710	Mid	LTE Band 30	10	12.75	0	Antenna 2	QPSK	25	25	0 mm	back	1:1	0.766	12.94	
2310.00	27710	Mid	LTE Band 30	10	12.66	0	Antenna 2	QPSK	50	0	0 mm	back	1:1	0.784	12.75	
2310.00	27710	Mid	LTE Band 30	10	12.67	0	Antenna 2	QPSK	1	0	0 mm	top	1:1	0.002	38.69	
2310.00	27710	Mid	LTE Band 30	10	12.75	0	Antenna 2	QPSK	25	25	0 mm	top	1:1	0.001	41.78	
2310.00	27710	Mid	LTE Band 30	10	12.67	0	Antenna 2	QPSK	1	0	0 mm	bottom	1:1	0.465	15.03	12.75
2310.00	27710	Mid	LTE Band 30	10	12.75	0	Antenna 2	QPSK	25	25	0 mm	bottom	1:1	0.464	15.12	
2310.00	27710	Mid	LTE Band 30	10	12.67	0	Antenna 2	QPSK	1	0	0 mm	right	1:1	0.764	12.87	
2310.00	27710	Mid	LTE Band 30	10	12.75	0	Antenna 2	QPSK	25	25	0 mm	right	1:1	0.773	12.90	
2310.00	27710	Mid	LTE Band 30	10	12.67	0	Antenna 2	QPSK	1	0	0 mm	left	1:1	0.031	26.79	
2310.00	27710	Mid	LTE Band 30	10	12.75	0	Antenna 2	QPSK	25	25	0 mm	left	1:1	0.034	26.47	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-33
DSI = 1 P_{Limit} Calculations – Antenna 3b LTE Band 30

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2310.00	27710	Mid	LTE Band 30	10	13.40	0	Antenna 3b	QPSK	1	25	0 mm	back	1:1	0.766	13.59	
2310.00	27710	Mid	LTE Band 30	10	13.45	0	Antenna 3b	QPSK	25	12	0 mm	back	1:1	0.783	13.54	
2310.00	27710	Mid	LTE Band 30	10	13.38	0	Antenna 3b	QPSK	50	0	0 mm	back	1:1	0.785	13.46	
2310.00	27710	Mid	LTE Band 30	10	13.40	0	Antenna 3b	QPSK	1	25	0 mm	top	1:1	0.725	13.83	
2310.00	27710	Mid	LTE Band 30	10	13.45	0	Antenna 3b	QPSK	25	12	0 mm	top	1:1	0.749	13.74	
2310.00	27710	Mid	LTE Band 30	10	13.38	0	Antenna 3b	QPSK	50	0	0 mm	top	1:1	0.746	13.68	13.46
2310.00	27710	Mid	LTE Band 30	10	13.40	0	Antenna 3b	QPSK	1	25	0 mm	bottom	1:1	0.000	42.43	
2310.00	27710	Mid	LTE Band 30	10	13.45	0	Antenna 3b	QPSK	25	12	0 mm	bottom	1:1	0.001	42.48	
2310.00	27710	Mid	LTE Band 30	10	13.40	0	Antenna 3b	QPSK	1	25	0 mm	right	1:1	0.030	27.66	
2310.00	27710	Mid	LTE Band 30	10	13.45	0	Antenna 3b	QPSK	25	12	0 mm	right	1:1	0.031	27.57	
2310.00	27710	Mid	LTE Band 30	10	13.40	0	Antenna 3b	QPSK	1	25	0 mm	left	1:1	0.015	30.67	
2310.00	27710	Mid	LTE Band 30	10	13.45	0	Antenna 3b	QPSK	25	12	0 mm	left	1:1	0.015	30.72	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-34
DSI = 1 P_{Limit} Calculations – Antenna 4 LTE Band 30

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2310.00	27710	Mid	LTE Band 30	10	13.25	0	Antenna 4	QPSK	1	0	0 mm	back	1:1	0.756	13.50	
2310.00	27710	Mid	LTE Band 30	10	13.47	0	Antenna 4	QPSK	25	12	0 mm	back	1:1	0.766	13.66	
2310.00	27710	Mid	LTE Band 30	10	13.21	0	Antenna 4	QPSK	50	0	0 mm	back	1:1	0.762	13.42	
2310.00	27710	Mid	LTE Band 30	10	13.25	0	Antenna 4	QPSK	1	0	0 mm	top	1:1	0.504	15.26	
2310.00	27710	Mid	LTE Band 30	10	13.47	0	Antenna 4	QPSK	25	12	0 mm	top	1:1	0.476	15.72	
2310.00	27710	Mid	LTE Band 30	10	13.25	0	Antenna 4	QPSK	1	0	0 mm	bottom	1:1	0.002	39.27	13.25
2310.00	27710	Mid	LTE Band 30	10	13.47	0	Antenna 4	QPSK	25	12	0 mm	bottom	1:1	0.003	37.73	
2310.00	27710	Mid	LTE Band 30	10	13.25	0	Antenna 4	QPSK	1	0	0 mm	right	1:1	0.003	37.51	
2310.00	27710	Mid	LTE Band 30	10	13.47	0	Antenna 4	QPSK	25	12	0 mm	right	1:1	0.002	39.49	
2310.00	27710	Mid	LTE Band 30	10	13.25	0	Antenna 4	QPSK	1	0	0 mm	left	1:1	0.773	13.40	
2310.00	27710	Mid	LTE Band 30	10	13.47	0	Antenna 4	QPSK	25	12	0 mm	left	1:1	0.841	13.25	
2310.00	27710	Mid	LTE Band 30	10	13.21	0	Antenna 4	QPSK	50	0	0 mm	left	1:1	0.788	13.28	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-35
DSI = 1 P_{Limit} Calculations – Antenna 1b LTE Band 7

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2510.00	20850	Low	LTE Band 7	20	11.87	0	Antenna 1b	QPSK	1	99	0 mm	back	1:1	0.684	12.55	
2535.00	21100	Mid	LTE Band 7	20	12.00	0	Antenna 1b	QPSK	1	0	0 mm	back	1:1	0.694	12.62	
2560.00	21350	High	LTE Band 7	20	12.06	0	Antenna 1b	QPSK	1	0	0 mm	back	1:1	0.707	12.60	
2510.00	20850	Low	LTE Band 7	20	12.09	0	Antenna 1b	QPSK	50	50	0 mm	back	1:1	0.713	12.59	
2535.00	21100	Mid	LTE Band 7	20	12.04	0	Antenna 1b	QPSK	50	0	0 mm	back	1:1	0.720	12.50	
2560.00	21350	High	LTE Band 7	20	12.10	0	Antenna 1b	QPSK	50	0	0 mm	back	1:1	0.724	12.53	
2535.00	21100	Mid	LTE Band 7	20	12.05	0	Antenna 1b	QPSK	100	0	0 mm	back	1:1	0.719	12.51	
2560.00	21350	High	LTE Band 7	20	12.06	0	Antenna 1b	QPSK	1	0	0 mm	top	1:1	0.020	28.08	
2560.00	21350	High	LTE Band 7	20	12.10	0	Antenna 1b	QPSK	50	0	0 mm	top	1:1	0.019	28.34	
2510.00	20850	Low	LTE Band 7	20	11.87	0	Antenna 1b	QPSK	1	99	0 mm	bottom	1:1	0.633	12.89	12.50
2535.00	21100	Mid	LTE Band 7	20	12.00	0	Antenna 1b	QPSK	1	0	0 mm	bottom	1:1	0.651	12.90	
2560.00	21350	High	LTE Band 7	20	12.06	0	Antenna 1b	QPSK	1	0	0 mm	bottom	1:1	0.703	12.62	
2510.00	20850	Low	LTE Band 7	20	12.09	0	Antenna 1b	QPSK	50	50	0 mm	bottom	1:1	0.651	12.99	
2535.00	21100	Mid	LTE Band 7	20	12.04	0	Antenna 1b	QPSK	50	0	0 mm	bottom	1:1	0.681	12.74	
2560.00	21350	High	LTE Band 7	20	12.10	0	Antenna 1b	QPSK	50	0	0 mm	bottom	1:1	0.726	12.52	
2535.00	21100	Mid	LTE Band 7	20	12.05	0	Antenna 1b	QPSK	100	0	0 mm	bottom	1:1	0.689	12.70	
2560.00	21350	High	LTE Band 7	20	12.06	0	Antenna 1b	QPSK	1	0	0 mm	right	1:1	0.025	27.11	
2560.00	21350	High	LTE Band 7	20	12.10	0	Antenna 1b	QPSK	50	0	0 mm	right	1:1	0.031	26.22	
2560.00	21350	High	LTE Band 7	20	12.06	0	Antenna 1b	QPSK	1	0	0 mm	left	1:1	0.018	28.54	
2560.00	21350	High	LTE Band 7	20	12.10	0	Antenna 1b	QPSK	50	0	0 mm	left	1:1	0.012	30.34	

ANSI / IEEE C95.1 1992 - SAFETY LIMIT **Spatial Peak** **Uncontrolled Exposure/General Population**	**Body** **1.6 W/kg (mW/g)** averaged over 1 gram

Table A-36
DSI = 1 P_{Limit} Calculations – Antenna 2 LTE Band 7

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2510.00	20850	Low	LTE Band 7	20	11.35	0	Antenna 2	QPSK	1	99	0 mm	back	1:1	0.676	12.08	
2535.00	21100	Mid	LTE Band 7	20	11.30	0	Antenna 2	QPSK	1	0	0 mm	back	1:1	0.679	12.01	
2560.00	21350	High	LTE Band 7	20	11.34	0	Antenna 2	QPSK	1	0	0 mm	back	1:1	0.688	11.99	
2510.00	20850	Low	LTE Band 7	20	11.52	0	Antenna 2	QPSK	50	50	0 mm	back	1:1	0.700	12.10	
2510.00	20850	Low	LTE Band 7	20	11.35	0	Antenna 2	QPSK	1	99	0 mm	top	1:1	0.023	26.76	
2510.00	20850	Low	LTE Band 7	20	11.52	0	Antenna 2	QPSK	50	50	0 mm	top	1:1	0.021	27.33	11.99
2510.00	20850	Low	LTE Band 7	20	11.35	0	Antenna 2	QPSK	1	99	0 mm	bottom	1:1	0.521	13.21	
2510.00	20850	Low	LTE Band 7	20	11.52	0	Antenna 2	QPSK	50	50	0 mm	bottom	1:1	0.535	13.27	
2510.00	20850	Low	LTE Band 7	20	11.35	0	Antenna 2	QPSK	1	99	0 mm	right	1:1	0.538	13.07	
2510.00	20850	Low	LTE Band 7	20	11.52	0	Antenna 2	QPSK	50	50	0 mm	right	1:1	0.555	13.11	
2510.00	20850	Low	LTE Band 7	20	11.35	0	Antenna 2	QPSK	1	99	0 mm	left	1:1	0.023	26.76	
2510.00	20850	Low	LTE Band 7	20	11.52	0	Antenna 2	QPSK	50	50	0 mm	left	1:1	0.022	27.13	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-37
DSI = 1 P_{Limit} Calculations – Antenna 3b LTE Band 7

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2510.00	20850	Low	LTE Band 7	20	13.60	0	Antenna 3b	QPSK	1	50	0 mm	back	1:1	0.714	14.09	
2535.00	21100	Mid	LTE Band 7	20	13.42	0	Antenna 3b	QPSK	1	50	0 mm	back	1:1	0.685	14.09	
2560.00	21350	High	LTE Band 7	20	13.52	0	Antenna 3b	QPSK	1	0	0 mm	back	1:1	0.673	14.27	
2510.00	20850	Low	LTE Band 7	20	13.60	0	Antenna 3b	QPSK	50	25	0 mm	back	1:1	0.743	13.92	
2535.00	21100	Mid	LTE Band 7	20	13.59	0	Antenna 3b	QPSK	50	0	0 mm	back	1:1	0.714	14.08	
2560.00	21350	High	LTE Band 7	20	13.54	0	Antenna 3b	QPSK	50	25	0 mm	back	1:1	0.673	14.29	
2535.00	21100	Mid	LTE Band 7	20	13.58	0	Antenna 3b	QPSK	100	0	0 mm	back	1:1	0.711	14.09	
2510.00	20850	Low	LTE Band 7	20	13.60	0	Antenna 3b	QPSK	1	50	0 mm	top	1:1	0.701	14.17	
2535.00	21100	Mid	LTE Band 7	20	13.42	0	Antenna 3b	QPSK	1	50	0 mm	top	1:1	0.714	13.91	
2560.00	21350	High	LTE Band 7	20	13.52	0	Antenna 3b	QPSK	1	0	0 mm	top	1:1	0.741	13.85	
2510.00	20850	Low	LTE Band 7	20	13.60	0	Antenna 3b	QPSK	50	25	0 mm	top	1:1	0.726	14.02	13.83
2535.00	21100	Mid	LTE Band 7	20	13.59	0	Antenna 3b	QPSK	50	0	0 mm	top	1:1	0.735	13.96	
2560.00	21350	High	LTE Band 7	20	13.54	0	Antenna 3b	QPSK	50	25	0 mm	top	1:1	0.748	13.83	
2535.00	21100	Mid	LTE Band 7	20	13.58	0	Antenna 3b	QPSK	100	0	0 mm	top	1:1	0.737	13.94	
2510.00	20850	Low	LTE Band 7	20	13.60	0	Antenna 3b	QPSK	1	50	0 mm	bottom	1:1	0.000	42.63	
2510.00	20850	Low	LTE Band 7	20	13.60	0	Antenna 3b	QPSK	50	25	0 mm	bottom	1:1	0.000	42.63	
2510.00	20850	Low	LTE Band 7	20	13.60	0	Antenna 3b	QPSK	1	50	0 mm	right	1:1	0.026	28.48	
2510.00	20850	Low	LTE Band 7	20	13.60	0	Antenna 3b	QPSK	50	25	0 mm	right	1:1	0.028	28.16	
2510.00	20850	Low	LTE Band 7	20	13.60	0	Antenna 3b	QPSK	1	50	0 mm	left	1:1	0.022	29.21	
2510.00	20850	Low	LTE Band 7	20	13.60	0	Antenna 3b	QPSK	50	25	0 mm	left	1:1	0.023	29.01	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-38
DSI = 1 P_{Limit} Calculations – Antenna 4 LTE Band 7

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2510.00	20850	Low	LTE Band 7	20	11.76	0	Antenna 4	QPSK	1	50	0 mm	back	1:1	0.907	11.21	
2535.00	21100	Mid	LTE Band 7	20	11.58	0	Antenna 4	QPSK	1	50	0 mm	back	1:1	0.906	11.04	
2560.00	21350	High	LTE Band 7	20	11.48	0	Antenna 4	QPSK	1	50	0 mm	back	1:1	0.882	11.06	
2510.00	20850	Low	LTE Band 7	20	11.81	0	Antenna 4	QPSK	50	25	0 mm	back	1:1	0.918	11.21	
2535.00	21100	Mid	LTE Band 7	20	11.77	0	Antenna 4	QPSK	50	25	0 mm	back	1:1	0.928	11.13	
2560.00	21350	High	LTE Band 7	20	11.73	0	Antenna 4	QPSK	50	25	0 mm	back	1:1	0.919	11.13	
2510.00	20850	Low	LTE Band 7	20	11.75	0	Antenna 4	QPSK	100	0	0 mm	back	1:1	0.911	11.19	11.04
2510.00	20850	Low	LTE Band 7	20	11.76	0	Antenna 4	QPSK	1	50	0 mm	top	1:1	0.471	14.06	
2510.00	20850	Low	LTE Band 7	20	11.81	0	Antenna 4	QPSK	50	25	0 mm	top	1:1	0.494	13.90	
2510.00	20850	Low	LTE Band 7	20	11.76	0	Antenna 4	QPSK	1	50	0 mm	bottom	1:1	0.000	40.79	
2510.00	20850	Low	LTE Band 7	20	11.81	0	Antenna 4	QPSK	50	25	0 mm	bottom	1:1	0.000	40.84	
2510.00	20850	Low	LTE Band 7	20	11.76	0	Antenna 4	QPSK	1	50	0 mm	right	1:1	0.006	33.01	
2510.00	20850	Low	LTE Band 7	20	11.81	0	Antenna 4	QPSK	50	25	0 mm	right	1:1	0.006	33.06	
2510.00	20850	Low	LTE Band 7	20	11.76	0	Antenna 4	QPSK	1	50	0 mm	left	1:1	0.586	13.11	
2510.00	20850	Low	LTE Band 7	20	11.81	0	Antenna 4	QPSK	50	25	0 mm	left	1:1	0.610	12.99	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-39
DSI = 1 P_{Limit} Calculations – Antenna 1b LTE Band 41

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2506.00	39750	Low	LTE Band 41	20	13.33	0	Antenna 1b	QPSK	1	0	0 mm	back	1:1.58	0.615	12.49	
2549.50	40185	Low-Mid	LTE Band 41	20	13.40	0	Antenna 1b	QPSK	1	0	0 mm	back	1:1.58	0.599	12.67	
2593.00	40620	Mid	LTE Band 41	20	13.28	0	Antenna 1b	QPSK	1	0	0 mm	back	1:1.58	0.630	12.33	
2636.50	41055	Mid-High	LTE Band 41	20	13.30	0	Antenna 1b	QPSK	1	99	0 mm	back	1:1.58	0.650	12.22	
2680.00	41490	High	LTE Band 41	20	13.38	0	Antenna 1b	QPSK	1	0	0 mm	back	1:1.58	0.697	11.99	
2506.00	39750	Low	LTE Band 41	20	13.49	0	Antenna 1b	QPSK	50	0	0 mm	back	1:1.58	0.639	12.48	
2549.50	40185	Low-Mid	LTE Band 41	20	13.52	0	Antenna 1b	QPSK	50	25	0 mm	back	1:1.58	0.603	12.76	
2593.00	40620	Mid	LTE Band 41	20	13.39	0	Antenna 1b	QPSK	50	25	0 mm	back	1:1.58	0.636	12.40	
2636.50	41055	Mid-High	LTE Band 41	20	13.44	0	Antenna 1b	QPSK	50	25	0 mm	back	1:1.58	0.675	12.19	
2680.00	41490	High	LTE Band 41	20	13.43	0	Antenna 1b	QPSK	50	25	0 mm	back	1:1.58	0.714	11.94	
2680.00	41490	High	LTE Band 41	20	13.39	0	Antenna 1b	QPSK	100	0	0 mm	back	1:1.58	0.728	11.81	
2549.50	40185	Low-Mid	LTE Band 41	20	13.40	0	Antenna 1b	QPSK	1	0	0 mm	top	1:1.58	0.000	40.45	
2549.50	40185	Low-Mid	LTE Band 41	20	13.52	0	Antenna 1b	QPSK	50	25	0 mm	top	1:1.58	0.000	40.57	
2506.00	39750	Low	LTE Band 41	20	13.33	0	Antenna 1b	QPSK	1	0	0 mm	bottom	1:1.58	0.551	12.96	11.81
2549.50	40185	Low-Mid	LTE Band 41	20	13.40	0	Antenna 1b	QPSK	1	0	0 mm	bottom	1:1.58	0.553	13.02	
2593.00	40620	Mid	LTE Band 41	20	13.28	0	Antenna 1b	QPSK	1	0	0 mm	bottom	1:1.58	0.619	12.41	
2636.50	41055	Mid-High	LTE Band 41	20	13.30	0	Antenna 1b	QPSK	1	99	0 mm	bottom	1:1.58	0.662	12.14	
2680.00	41490	High	LTE Band 41	20	13.38	0	Antenna 1b	QPSK	1	0	0 mm	bottom	1:1.58	0.724	11.83	
2506.00	39750	Low	LTE Band 41	20	13.49	0	Antenna 1b	QPSK	50	0	0 mm	bottom	1:1.58	0.575	12.94	
2549.50	40185	Low-Mid	LTE Band 41	20	13.52	0	Antenna 1b	QPSK	50	25	0 mm	bottom	1:1.58	0.567	13.03	
2593.00	40620	Mid	LTE Band 41	20	13.39	0	Antenna 1b	QPSK	50	25	0 mm	bottom	1:1.58	0.623	12.49	
2636.50	41055	Mid-High	LTE Band 41	20	13.44	0	Antenna 1b	QPSK	50	25	0 mm	bottom	1:1.58	0.658	12.30	
2680.00	41490	High	LTE Band 41	20	13.43	0	Antenna 1b	QPSK	50	25	0 mm	bottom	1:1.58	0.723	11.88	
2680.00	41490	High	LTE Band 41	20	13.39	0	Antenna 1b	QPSK	100	0	0 mm	bottom	1:1.58	0.726	11.83	
2549.50	40185	Low-Mid	LTE Band 41	20	13.40	0	Antenna 1b	QPSK	1	0	0 mm	right	1:1.58	0.006	32.66	
2549.50	40185	Low-Mid	LTE Band 41	20	13.52	0	Antenna 1b	QPSK	50	25	0 mm	right	1:1.58	0.008	31.53	
2549.50	40185	Low-Mid	LTE Band 41	20	13.40	0	Antenna 1b	QPSK	1	0	0 mm	left	1:1.58	0.023	26.83	
2549.50	40185	Low-Mid	LTE Band 41	20	13.52	0	Antenna 1b	QPSK	50	25	0 mm	left	1:1.58	0.021	27.34	

ANSI / IEEE C95.1 1992 - SAFETY LIMIT **Spatial Peak** **Uncontrolled Exposure/General Population**	**Body** **1.6 W/kg (mW/g)** averaged over 1 gram

Table A-40
DSI = 1 P_{Limit} Calculations – Antenna 2 LTE Band 41

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2506.00	39750	Low	LTE Band 41	20	13.26	0	Antenna 2	QPSK	1	0	0 mm	back	1:1.58	0.639	12.25	
2549.50	40185	Low-Mid	LTE Band 41	20	13.11	0	Antenna 2	QPSK	1	50	0 mm	back	1:1.58	0.609	12.31	
2593.00	40620	Mid	LTE Band 41	20	13.21	0	Antenna 2	QPSK	1	0	0 mm	back	1:1.58	0.641	12.19	
2636.50	41055	Mid-High	LTE Band 41	20	13.10	0	Antenna 2	QPSK	1	0	0 mm	back	1:1.58	0.641	12.08	
2680.00	41490	High	LTE Band 41	20	13.25	0	Antenna 2	QPSK	1	0	0 mm	back	1:1.58	0.678	11.98	
2506.00	39750	Low	LTE Band 41	20	13.35	0	Antenna 2	QPSK	50	25	0 mm	back	1:1.58	0.646	12.29	
2549.50	40185	Low-Mid	LTE Band 41	20	13.25	0	Antenna 2	QPSK	50	0	0 mm	back	1:1.58	0.655	12.13	
2593.00	40620	Mid	LTE Band 41	20	13.28	0	Antenna 2	QPSK	50	0	0 mm	back	1:1.58	0.646	12.22	
2636.50	41055	Mid-High	LTE Band 41	20	13.14	0	Antenna 2	QPSK	50	25	0 mm	back	1:1.58	0.650	12.06	
2680.00	41490	High	LTE Band 41	20	13.16	0	Antenna 2	QPSK	50	25	0 mm	back	1:1.58	0.664	11.98	11.98
2506.00	39750	Low	LTE Band 41	20	13.25	0	Antenna 2	QPSK	100	0	0 mm	back	1:1.58	0.647	12.19	
2506.00	39750	Low	LTE Band 41	20	13.26	0	Antenna 2	QPSK	1	0	0 mm	top	1:1.58	0.000	40.30	
2506.00	39750	Low	LTE Band 41	20	13.35	0	Antenna 2	QPSK	50	25	0 mm	top	1:1.58	0.000	40.39	
2506.00	39750	Low	LTE Band 41	20	13.26	0	Antenna 2	QPSK	1	0	0 mm	bottom	1:1.58	0.426	14.01	
2506.00	39750	Low	LTE Band 41	20	13.35	0	Antenna 2	QPSK	50	25	0 mm	bottom	1:1.58	0.432	14.04	
2506.00	39750	Low	LTE Band 41	20	13.26	0	Antenna 2	QPSK	1	0	0 mm	right	1:1.58	0.440	13.87	
2506.00	39750	Low	LTE Band 41	20	13.35	0	Antenna 2	QPSK	50	25	0 mm	right	1:1.58	0.462	13.75	
2506.00	39750	Low	LTE Band 41	20	13.26	0	Antenna 2	QPSK	1	0	0 mm	left	1:1.58	0.020	27.29	
2506.00	39750	Low	LTE Band 41	20	13.35	0	Antenna 2	QPSK	50	25	0 mm	left	1:1.58	0.005	33.41	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-41
DSI = 1 P_{Limit} Calculations – Antenna 3b LTE Band 41

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2506.00	39750	Low	LTE Band 41	20	14.42	0	Antenna 3b	QPSK	1	50	0 mm	back	1:1.58	0.460	14.84	
2549.50	40185	Low-Mid	LTE Band 41	20	14.25	0	Antenna 3b	QPSK	1	0	0 mm	back	1:1.58	0.465	14.62	
2593.00	40620	Mid	LTE Band 41	20	14.21	0	Antenna 3b	QPSK	1	99	0 mm	back	1:1.58	0.438	14.84	
2636.50	41055	Mid-High	LTE Band 41	20	14.26	0	Antenna 3b	QPSK	1	0	0 mm	back	1:1.58	0.463	14.65	
2680.00	41490	High	LTE Band 41	20	14.25	0	Antenna 3b	QPSK	1	0	0 mm	back	1:1.58	0.493	14.37	
2506.00	39750	Low	LTE Band 41	20	14.42	0	Antenna 3b	QPSK	50	0	0 mm	back	1:1.58	0.488	14.58	
2549.50	40185	Low-Mid	LTE Band 41	20	14.41	0	Antenna 3b	QPSK	50	25	0 mm	back	1:1.58	0.451	14.91	
2593.00	40620	Mid	LTE Band 41	20	14.40	0	Antenna 3b	QPSK	50	50	0 mm	back	1:1.58	0.431	15.10	
2636.50	41055	Mid-High	LTE Band 41	20	14.41	0	Antenna 3b	QPSK	50	25	0 mm	back	1:1.58	0.420	15.22	
2680.00	41490	High	LTE Band 41	20	14.41	0	Antenna 3b	QPSK	50	25	0 mm	back	1:1.58	0.458	14.85	
2593.00	40620	Mid	LTE Band 41	20	14.41	0	Antenna 3b	QPSK	100	0	0 mm	back	1:1.58	0.430	15.12	
2506.00	39750	Low	LTE Band 41	20	14.42	0	Antenna 3b	QPSK	1	50	0 mm	top	1:1.58	0.492	14.55	
2549.50	40185	Low-Mid	LTE Band 41	20	14.25	0	Antenna 3b	QPSK	1	0	0 mm	top	1:1.58	0.501	14.30	
2593.00	40620	Mid	LTE Band 41	20	14.21	0	Antenna 3b	QPSK	1	99	0 mm	top	1:1.58	0.541	13.92	13.11
2636.50	41055	Mid-High	LTE Band 41	20	14.26	0	Antenna 3b	QPSK	1	0	0 mm	top	1:1.58	0.580	13.67	
2680.00	41490	High	LTE Band 41	20	14.25	0	Antenna 3b	QPSK	1	0	0 mm	top	1:1.58	0.658	13.11	
2506.00	39750	Low	LTE Band 41	20	14.42	0	Antenna 3b	QPSK	50	0	0 mm	top	1:1.58	0.516	14.34	
2549.50	40185	Low-Mid	LTE Band 41	20	14.41	0	Antenna 3b	QPSK	50	25	0 mm	top	1:1.58	0.507	14.40	
2593.00	40620	Mid	LTE Band 41	20	14.40	0	Antenna 3b	QPSK	50	50	0 mm	top	1:1.58	0.554	14.01	
2636.50	41055	Mid-High	LTE Band 41	20	14.41	0	Antenna 3b	QPSK	50	25	0 mm	top	1:1.58	0.598	13.69	
2680.00	41490	High	LTE Band 41	20	14.41	0	Antenna 3b	QPSK	50	25	0 mm	top	1:1.58	0.671	13.19	
2593.00	40620	Mid	LTE Band 41	20	14.41	0	Antenna 3b	QPSK	100	0	0 mm	top	1:1.58	0.556	14.00	
2506.00	39750	Low	LTE Band 41	20	14.42	0	Antenna 3b	QPSK	1	50	0 mm	bottom	1:1.58	0.000	41.47	
2506.00	39750	Low	LTE Band 41	20	14.42	0	Antenna 3b	QPSK	50	0	0 mm	bottom	1:1.58	0.000	41.47	
2506.00	39750	Low	LTE Band 41	20	14.42	0	Antenna 3b	QPSK	1	50	0 mm	right	1:1.58	0.021	28.24	
2506.00	39750	Low	LTE Band 41	20	14.42	0	Antenna 3b	QPSK	50	0	0 mm	right	1:1.58	0.022	28.04	
2506.00	39750	Low	LTE Band 41	20	14.42	0	Antenna 3b	QPSK	1	50	0 mm	left	1:1.58	0.010	31.47	
2506.00	39750	Low	LTE Band 41	20	14.42	0	Antenna 3b	QPSK	50	0	0 mm	left	1:1.58	0.010	31.47	

ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population	Body 1.6 W/kg (mW/g) averaged over 1 gram

Table A-42
DSI = 1 P_{Limit} Calculations – Antenna 4 LTE Band 41

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
2506.00	39750	Low	LTE Band 41	20	13.90	0	Antenna 4	QPSK	1	0	0 mm	back	1:1.58	0.507	13.89	
2549.50	40185	Low-Mid	LTE Band 41	20	13.71	0	Antenna 4	QPSK	1	99	0 mm	back	1:1.58	0.606	12.93	
2593.00	40620	Mid	LTE Band 41	20	13.93	0	Antenna 4	QPSK	1	0	0 mm	back	1:1.58	0.790	12.00	
2636.50	41055	Mid-High	LTE Band 41	20	13.71	0	Antenna 4	QPSK	1	0	0 mm	back	1:1.58	0.579	13.13	
2680.00	41490	High	LTE Band 41	20	13.71	0	Antenna 4	QPSK	1	0	0 mm	back	1:1.58	0.640	12.69	
2506.00	39750	Low	LTE Band 41	20	14.01	0	Antenna 4	QPSK	50	25	0 mm	back	1:1.58	0.524	13.86	
2549.50	40185	Low-Mid	LTE Band 41	20	13.82	0	Antenna 4	QPSK	50	25	0 mm	back	1:1.58	0.634	12.84	
2593.00	40620	Mid	LTE Band 41	20	14.02	0	Antenna 4	QPSK	50	25	0 mm	back	1:1.58	0.803	12.02	
2636.50	41055	Mid-High	LTE Band 41	20	13.76	0	Antenna 4	QPSK	50	0	0 mm	back	1:1.58	0.599	13.03	
2680.00	41490	High	LTE Band 41	20	13.89	0	Antenna 4	QPSK	50	25	0 mm	back	1:1.58	0.697	12.50	
2593.00	40620	Mid	LTE Band 41	20	13.92	0	Antenna 4	QPSK	100	0	0 mm	back	1:1.58	0.544	13.61	
2506.00	39750	Low	LTE Band 41	20	13.90	0	Antenna 4	QPSK	1	0	0 mm	top	1:1.58	0.405	14.87	
2549.50	40185	Low-Mid	LTE Band 41	20	13.71	0	Antenna 4	QPSK	1	99	0 mm	top	1:1.58	0.434	14.38	
2593.00	40620	Mid	LTE Band 41	20	13.93	0	Antenna 4	QPSK	1	0	0 mm	top	1:1.58	0.513	13.87	
2636.50	41055	Mid-High	LTE Band 41	20	13.71	0	Antenna 4	QPSK	1	0	0 mm	top	1:1.58	0.493	13.83	
2680.00	41490	High	LTE Band 41	20	13.71	0	Antenna 4	QPSK	1	0	0 mm	top	1:1.58	0.528	13.53	
2506.00	39750	Low	LTE Band 41	20	14.01	0	Antenna 4	QPSK	50	25	0 mm	top	1:1.58	0.419	14.83	
2549.50	40185	Low-Mid	LTE Band 41	20	13.82	0	Antenna 4	QPSK	50	25	0 mm	top	1:1.58	0.435	14.48	
2593.00	40620	Mid	LTE Band 41	20	14.02	0	Antenna 4	QPSK	50	25	0 mm	top	1:1.58	0.535	13.78	12.00
2636.50	41055	Mid-High	LTE Band 41	20	13.76	0	Antenna 4	QPSK	50	0	0 mm	top	1:1.58	0.500	13.82	
2680.00	41490	High	LTE Band 41	20	13.89	0	Antenna 4	QPSK	50	25	0 mm	top	1:1.58	0.537	13.64	
2593.00	40620	Mid	LTE Band 41	20	13.92	0	Antenna 4	QPSK	100	0	0 mm	top	1:1.58	0.502	13.96	
2593.00	40620	Mid	LTE Band 41	20	13.93	0	Antenna 4	QPSK	1	0	0 mm	bottom	1:1.58	0.003	36.20	
2593.00	40620	Mid	LTE Band 41	20	14.02	0	Antenna 4	QPSK	50	25	0 mm	bottom	1:1.58	0.003	36.29	
2593.00	40620	Mid	LTE Band 41	20	13.93	0	Antenna 4	QPSK	1	0	0 mm	right	1:1.58	0.009	31.43	
2593.00	40620	Mid	LTE Band 41	20	14.02	0	Antenna 4	QPSK	50	25	0 mm	right	1:1.58	0.000	41.07	
2506.00	39750	Low	LTE Band 41	20	13.90	0	Antenna 4	QPSK	1	0	0 mm	left	1:1.58	0.578	13.33	
2549.50	40185	Low-Mid	LTE Band 41	20	13.71	0	Antenna 4	QPSK	1	99	0 mm	left	1:1.58	0.587	13.07	
2593.00	40620	Mid	LTE Band 41	20	13.93	0	Antenna 4	QPSK	1	0	0 mm	left	1:1.58	0.629	12.99	
2636.50	41055	Mid-High	LTE Band 41	20	13.71	0	Antenna 4	QPSK	1	0	0 mm	left	1:1.58	0.611	12.89	
2680.00	41490	High	LTE Band 41	20	13.71	0	Antenna 4	QPSK	1	0	0 mm	left	1:1.58	0.586	13.08	
2506.00	39750	Low	LTE Band 41	20	14.01	0	Antenna 4	QPSK	50	25	0 mm	left	1:1.58	0.594	13.32	
2549.50	40185	Low-Mid	LTE Band 41	20	13.82	0	Antenna 4	QPSK	50	25	0 mm	left	1:1.58	0.627	12.89	
2593.00	40620	Mid	LTE Band 41	20	14.02	0	Antenna 4	QPSK	50	25	0 mm	left	1:1.58	0.648	12.95	
2636.50	41055	Mid-High	LTE Band 41	20	13.76	0	Antenna 4	QPSK	50	0	0 mm	left	1:1.58	0.630	14.80	
2680.00	41490	High	LTE Band 41	20	13.89	0	Antenna 4	QPSK	50	25	0 mm	left	1:1.58	0.588	15.23	
2593.00	40620	Mid	LTE Band 41	20	13.92	0	Antenna 4	QPSK	100	0	0 mm	left	1:1.58	0.586	15.27	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-43
DSI = 1 P_{Limit} Calculations – Antenna 1a LTE Band 48

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
3560.00	55340	Low	LTE Band 48	20	11.40	0	Antenna 1a	QPSK	1	99	0 mm	back	1:1.58	0.466	11.76	
3560.00	55340	Low	LTE Band 48	20	11.46	0	Antenna 1a	QPSK	50	50	0 mm	back	1:1.58	0.553	11.08	
3603.30	55773	Low-Mid	LTE Band 48	20	11.43	0	Antenna 1a	QPSK	50	50	0 mm	back	1:1.58	0.451	11.93	
3646.70	56207	Mid-High	LTE Band 48	20	11.45	0	Antenna 1a	QPSK	50	50	0 mm	back	1:1.58	0.482	11.66	
3690.00	56640	High	LTE Band 48	20	11.38	0	Antenna 1a	QPSK	50	0	0 mm	back	1:1.58	0.367	12.78	
3560.00	55340	Low	LTE Band 48	20	11.39	0	Antenna 1a	QPSK	100	0	0 mm	back	1:1.58	0.396	12.46	
3560.00	55340	Low	LTE Band 48	20	11.40	0	Antenna 1a	QPSK	1	99	0 mm	top	1:1.58	0.015	26.68	
3560.00	55340	Low	LTE Band 48	20	11.46	0	Antenna 1a	QPSK	50	50	0 mm	top	1:1.58	0.016	26.46	
3560.00	55340	Low	LTE Band 48	20	11.40	0	Antenna 1a	QPSK	1	99	0 mm	bottom	1:1.58	0.179	15.92	
3560.00	55340	Low	LTE Band 48	20	11.46	0	Antenna 1a	QPSK	50	50	0 mm	bottom	1:1.58	0.185	15.83	
3560.00	55340	Low	LTE Band 48	20	11.40	0	Antenna 1a	QPSK	1	99	0 mm	right	1:1.58	0.010	28.45	9.83
3560.00	55340	Low	LTE Band 48	20	11.46	0	Antenna 1a	QPSK	50	50	0 mm	right	1:1.58	0.010	28.50	
3560.00	55340	Low	LTE Band 48	20	11.40	0	Antenna 1a	QPSK	1	99	0 mm	left	1:1.58	0.688	10.07	
3603.30	55773	Low-Mid	LTE Band 48	20	11.29	0	Antenna 1a	QPSK	1	99	0 mm	left	1:1.58	0.606	10.51	
3646.70	56207	Mid-High	LTE Band 48	20	11.39	0	Antenna 1a	QPSK	1	99	0 mm	left	1:1.58	0.542	11.10	
3690.00	56640	High	LTE Band 48	20	11.28	0	Antenna 1a	QPSK	1	0	0 mm	left	1:1.58	0.550	10.92	
3560.00	55340	Low	LTE Band 48	20	11.46	0	Antenna 1a	QPSK	50	50	0 mm	left	1:1.58	0.710	9.99	
3603.30	55773	Low-Mid	LTE Band 48	20	11.43	0	Antenna 1a	QPSK	50	50	0 mm	left	1:1.58	0.614	10.59	
3646.70	56207	Mid-High	LTE Band 48	20	11.45	0	Antenna 1a	QPSK	50	50	0 mm	left	1:1.58	0.537	11.20	
3690.00	56640	High	LTE Band 48	20	11.38	0	Antenna 1a	QPSK	50	0	0 mm	left	1:1.58	0.541	11.09	
3560.00	55340	Low	LTE Band 48	20	11.39	0	Antenna 1a	QPSK	100	0	0 mm	left	1:1.58	0.726	9.83	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-44
DSI = 1 P_{Limit} Calculations – Antenna 2 LTE Band 48

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
3560.00	55340	Low	LTE Band 48	20	12.20	0	Antenna 2	QPSK	1	0	0 mm	back	1:1.58	0.635	11.22	
3603.30	55773	Low-Mid	LTE Band 48	20	12.38	0	Antenna 2	QPSK	1	99	0 mm	back	1:1.58	0.695	11.01	
3646.70	56207	Mid-High	LTE Band 48	20	12.37	0	Antenna 2	QPSK	1	0	0 mm	back	1:1.58	0.626	11.45	
3690.00	56640	High	LTE Band 48	20	12.31	0	Antenna 2	QPSK	1	0	0 mm	back	1:1.58	0.650	11.23	
3560.00	55340	Low	LTE Band 48	20	12.30	0	Antenna 2	QPSK	50	25	0 mm	back	1:1.58	0.629	11.36	
3603.30	55773	Low-Mid	LTE Band 48	20	12.34	0	Antenna 2	QPSK	50	25	0 mm	back	1:1.58	0.729	10.76	
3603.30	55773	Low-Mid	LTE Band 48	20	12.33	0	Antenna 2	QPSK	50	50	0 mm	back	1:1.58	0.703	10.91	
3646.70	56207	Mid-High	LTE Band 48	20	12.42	0	Antenna 2	QPSK	50	0	0 mm	back	1:1.58	0.607	11.63	
3690.00	56640	High	LTE Band 48	20	12.34	0	Antenna 2	QPSK	50	50	0 mm	back	1:1.58	0.602	11.59	10.76
3603.30	55773	Low-Mid	LTE Band 48	20	12.37	0	Antenna 2	QPSK	100	0	0 mm	back	1:1.58	0.732	10.77	
3603.30	55773	Low-Mid	LTE Band 48	20	12.38	0	Antenna 2	QPSK	1	99	0 mm	top	1:1.58	0.001	39.43	
3646.70	56207	Mid-High	LTE Band 48	20	12.42	0	Antenna 2	QPSK	50	0	0 mm	top	1:1.58	0.004	33.44	
3603.30	55773	Low-Mid	LTE Band 48	20	12.38	0	Antenna 2	QPSK	1	99	0 mm	bottom	1:1.58	0.270	15.11	
3646.70	56207	Mid-High	LTE Band 48	20	12.42	0	Antenna 2	QPSK	50	0	0 mm	bottom	1:1.58	0.288	14.87	
3603.30	55773	Low-Mid	LTE Band 48	20	12.38	0	Antenna 2	QPSK	1	99	0 mm	right	1:1.58	0.215	16.10	
3646.70	56207	Mid-High	LTE Band 48	20	12.42	0	Antenna 2	QPSK	50	0	0 mm	right	1:1.58	0.226	15.92	
3603.30	55773	Low-Mid	LTE Band 48	20	12.38	0	Antenna 2	QPSK	1	99	0 mm	left	1:1.58	0.000	39.43	
3646.70	56207	Mid-High	LTE Band 48	20	12.42	0	Antenna 2	QPSK	50	0	0 mm	left	1:1.58	0.000	39.46	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-45
DSI = 1 P_{Limit} Calculations – Antenna 3a LTE Band 48

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
3603.30	55773	Low-Mid	LTE Band 48	20	11.38	0	Antenna 3a	QPSK	1	0	0 mm	back	1:1.58	0.342	13.08	
3560.00	55340	Low	LTE Band 48	20	11.53	0	Antenna 3a	QPSK	50	25	0 mm	back	1:1.58	0.363	12.98	
3603.30	55773	Low-Mid	LTE Band 48	20	11.38	0	Antenna 3a	QPSK	1	0	0 mm	top	1:1.58	0.180	15.87	
3560.00	55340	Low	LTE Band 48	20	11.53	0	Antenna 3a	QPSK	50	25	0 mm	top	1:1.58	0.190	15.79	
3603.30	55773	Low-Mid	LTE Band 48	20	11.38	0	Antenna 3a	QPSK	1	0	0 mm	bottom	1:1.58	0.015	26.66	
3560.00	55340	Low	LTE Band 48	20	11.53	0	Antenna 3a	QPSK	50	25	0 mm	bottom	1:1.58	0.000	38.57	
3560.00	55340	Low	LTE Band 48	20	11.33	0	Antenna 3a	QPSK	1	50	0 mm	right	1:1.58	0.592	10.65	
3603.30	55773	Low-Mid	LTE Band 48	20	11.38	0	Antenna 3a	QPSK	1	0	0 mm	right	1:1.58	0.576	10.82	
3646.70	56207	Mid-High	LTE Band 48	20	11.33	0	Antenna 3a	QPSK	1	0	0 mm	right	1:1.58	0.563	10.87	10.23
3690.00	56640	High	LTE Band 48	20	11.31	0	Antenna 3a	QPSK	1	0	0 mm	right	1:1.58	0.588	10.66	
3560.00	55340	Low	LTE Band 48	20	11.53	0	Antenna 3a	QPSK	50	25	0 mm	right	1:1.58	0.632	10.57	
3560.00	55340	Low	LTE Band 48	20	11.47	0	Antenna 3a	QPSK	50	50	0 mm	right	1:1.58	0.673	10.23	
3603.30	55773	Low-Mid	LTE Band 48	20	11.46	0	Antenna 3a	QPSK	50	25	0 mm	right	1:1.58	0.575	10.91	
3646.70	56207	Mid-High	LTE Band 48	20	11.46	0	Antenna 3a	QPSK	50	25	0 mm	right	1:1.58	0.548	11.12	
3690.00	56640	High	LTE Band 48	20	11.38	0	Antenna 3a	QPSK	50	50	0 mm	right	1:1.58	0.562	10.93	
3603.30	55773	Low-Mid	LTE Band 48	20	11.37	0	Antenna 3a	QPSK	100	0	0 mm	right	1:1.58	0.584	10.75	
3603.30	55773	Low-Mid	LTE Band 48	20	11.38	0	Antenna 3a	QPSK	1	0	0 mm	left	1:1.58	0.012	27.63	
3560.00	55340	Low	LTE Band 48	20	11.53	0	Antenna 3a	QPSK	50	25	0 mm	left	1:1.58	0.010	28.57	

ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population	Body 1.6 W/kg (mW/g) averaged over 1 gram

Table A-46
DSI = 1 P_{Limit} Calculations – Antenna 4 LTE Band 48

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.													(W/kg)	[dBm]	[dBm]
3560.00	55340	Low	LTE Band 48	20	10.32	0	Antenna 4	QPSK	1	0	0 mm	back	1:1.58	0.607	9.53	
3603.30	55773	Low-Mid	LTE Band 48	20	10.20	0	Antenna 4	QPSK	1	99	0 mm	back	1:1.58	0.598	9.48	
3646.70	56207	Mid-High	LTE Band 48	20	10.28	0	Antenna 4	QPSK	1	0	0 mm	back	1:1.58	0.557	9.87	
3690.00	56640	High	LTE Band 48	20	10.05	0	Antenna 4	QPSK	1	0	0 mm	back	1:1.58	0.446	10.60	
3560.00	55340	Low	LTE Band 48	20	10.42	0	Antenna 4	QPSK	50	50	0 mm	back	1:1.58	0.601	9.68	
3603.30	55773	Low-Mid	LTE Band 48	20	10.41	0	Antenna 4	QPSK	50	25	0 mm	back	1:1.58	0.627	9.48	
3603.30	55773	Low-Mid	LTE Band 48	20	10.35	0	Antenna 4	QPSK	50	50	0 mm	back	1:1.58	0.534	10.12	
3646.70	56207	Mid-High	LTE Band 48	20	10.38	0	Antenna 4	QPSK	50	0	0 mm	back	1:1.58	0.554	9.99	
3690.00	56640	High	LTE Band 48	20	10.12	0	Antenna 4	QPSK	50	0	0 mm	back	1:1.58	0.442	10.71	9.48
3560.00	55340	Low	LTE Band 48	20	10.28	0	Antenna 4	QPSK	100	0	0 mm	back	1:1.58	0.591	9.61	
3560.00	55340	Low	LTE Band 48	20	10.32	0	Antenna 4	QPSK	1	0	0 mm	top	1:1.58	0.174	14.96	
3560.00	55340	Low	LTE Band 48	20	10.42	0	Antenna 4	QPSK	50	50	0 mm	top	1:1.58	0.170	15.16	
3560.00	55340	Low	LTE Band 48	20	10.32	0	Antenna 4	QPSK	1	0	0 mm	bottom	1:1.58	0.009	27.82	
3560.00	55340	Low	LTE Band 48	20	10.42	0	Antenna 4	QPSK	50	50	0 mm	bottom	1:1.58	0.011	27.05	
3560.00	55340	Low	LTE Band 48	20	10.32	0	Antenna 4	QPSK	1	0	0 mm	right	1:1.58	0.012	26.57	
3560.00	55340	Low	LTE Band 48	20	10.42	0	Antenna 4	QPSK	50	50	0 mm	right	1:1.58	0.009	27.92	
3560.00	55340	Low	LTE Band 48	20	10.32	0	Antenna 4	QPSK	1	0	0 mm	left	1:1.58	0.219	13.96	
3560.00	55340	Low	LTE Band 48	20	10.42	0	Antenna 4	QPSK	50	50	0 mm	left	1:1.58	0.224	13.96	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-47
DSI = 1 P_{Limit} Calculations – Antenna 2 NR Band n71

MEASUREMENT RESULTS																		
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
680.50	136100	Mid	NR Band n71	20	17.42	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.546	19.08	
680.50	136100	Mid	NR Band n71	20	17.46	Antenna 2	0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.519	19.34	
680.50	136100	Mid	NR Band n71	20	17.33	Antenna 2	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.537	19.06	
680.50	136100	Mid	NR Band n71	20	17.42	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.014	34.99	
680.50	136100	Mid	NR Band n71	20	17.46	Antenna 2	0	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.011	36.08	
680.50	136100	Mid	NR Band n71	20	17.42	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.386	20.59	19.06
680.50	136100	Mid	NR Band n71	20	17.46	Antenna 2	0	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.396	20.51	
680.50	136100	Mid	NR Band n71	20	17.42	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.342	21.11	
680.50	136100	Mid	NR Band n71	20	17.46	Antenna 2	0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.338	21.20	
680.50	136100	Mid	NR Band n71	20	17.42	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.039	30.54	
680.50	136100	Mid	NR Band n71	20	17.46	Antenna 2	0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.032	31.44	

ANSI / IEEE C95.1 1992 - SAFETY LIMIT	Body
Spatial Peak	1.6 W/kg (mW/g)
Uncontrolled Exposure/General Population	averaged over 1 gram

Table A-48
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n71

MEASUREMENT RESULTS																		
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
680.50	136100	Mid	NR Band n71	20	19.27	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.729	19.67	
680.50	136100	Mid	NR Band n71	20	19.30	Antenna 4	0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.653	20.18	
680.50	136100	Mid	NR Band n71	20	19.25	Antenna 4	0	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	0.624	20.33	
680.50	136100	Mid	NR Band n71	20	19.32	Antenna 4	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.758	19.55	
680.50	136100	Mid	NR Band n71	20	19.27	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.363	22.70	
680.50	136100	Mid	NR Band n71	20	19.30	Antenna 4	0	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.359	22.78	19.55
680.50	136100	Mid	NR Band n71	20	19.27	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.030	33.53	
680.50	136100	Mid	NR Band n71	20	19.30	Antenna 4	0	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.028	33.86	
680.50	136100	Mid	NR Band n71	20	19.27	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.058	30.67	
680.50	136100	Mid	NR Band n71	20	19.30	Antenna 4	0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.069	29.94	
680.50	136100	Mid	NR Band n71	20	19.27	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.455	21.72	
680.50	136100	Mid	NR Band n71	20	19.30	Antenna 4	0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.484	21.48	

ANSI / IEEE C95.1 1992 - SAFETY LIMIT	Body
Spatial Peak	1.6 W/kg (mW/g)
Uncontrolled Exposure/General Population	averaged over 1 gram

Table A-49
DSI = 1 P_{Limit} Calculations – Antenna 2 NR Band n12

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
707.50	141500	Mid	NR Band n12	15	18.26	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.671	19.02	
707.50	141500	Mid	NR Band n12	15	18.12	Antenna 2	0	DFT-S-OFDM	QPSK	36	0	0 mm	back	1:1	0.701	18.69	
707.50	141500	Mid	NR Band n12	15	18.04	Antenna 2	0	DFT-S-OFDM	QPSK	75	0	0 mm	back	1:1	0.707	18.58	
707.50	141500	Mid	NR Band n12	15	18.24	Antenna 2	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.806	18.21	
707.50	141500	Mid	NR Band n12	15	18.26	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.011	36.88	
707.50	141500	Mid	NR Band n12	15	18.12	Antenna 2	0	DFT-S-OFDM	QPSK	36	0	0 mm	top	1:1	0.017	34.85	18.21
707.50	141500	Mid	NR Band n12	15	18.26	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.515	20.17	
707.50	141500	Mid	NR Band n12	15	18.12	Antenna 2	0	DFT-S-OFDM	QPSK	36	0	0 mm	bottom	1:1	0.524	19.96	
707.50	141500	Mid	NR Band n12	15	18.26	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.463	20.64	
707.50	141500	Mid	NR Band n12	15	18.12	Antenna 2	0	DFT-S-OFDM	QPSK	36	0	0 mm	right	1:1	0.476	20.37	
707.50	141500	Mid	NR Band n12	15	18.26	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.028	32.82	
707.50	141500	Mid	NR Band n12	15	18.12	Antenna 2	0	DFT-S-OFDM	QPSK	36	0	0 mm	left	1:1	0.029	32.53	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-50
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n12

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
707.50	141500	Mid	NR Band n12	15	17.74	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.753	18.00	
707.50	141500	Mid	NR Band n12	15	17.65	Antenna 4	0	DFT-S-OFDM	QPSK	36	0	0 mm	back	1:1	0.715	18.14	
707.50	141500	Mid	NR Band n12	15	17.56	Antenna 4	0	DFT-S-OFDM	QPSK	75	0	0 mm	back	1:1	0.649	18.47	
707.50	141500	Mid	NR Band n12	15	17.63	Antenna 4	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.711	18.14	
707.50	141500	Mid	NR Band n12	15	17.74	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.324	21.67	
707.50	141500	Mid	NR Band n12	15	17.65	Antenna 4	0	DFT-S-OFDM	QPSK	36	0	0 mm	top	1:1	0.329	21.51	18.00
707.50	141500	Mid	NR Band n12	15	17.74	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.016	34.73	
707.50	141500	Mid	NR Band n12	15	17.65	Antenna 4	0	DFT-S-OFDM	QPSK	36	0	0 mm	bottom	1:1	0.022	33.26	
707.50	141500	Mid	NR Band n12	15	17.74	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.033	31.59	
707.50	141500	Mid	NR Band n12	15	17.65	Antenna 4	0	DFT-S-OFDM	QPSK	36	0	0 mm	right	1:1	0.032	31.63	
707.50	141500	Mid	NR Band n12	15	17.74	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.448	20.26	
707.50	141500	Mid	NR Band n12	15	17.65	Antenna 4	0	DFT-S-OFDM	QPSK	36	0	0 mm	left	1:1	0.433	20.32	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-51
DSI = 1 P_{Limit} Calculations – Antenna 2 NR Band n5

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
836.50	167300	Mid	NR Band n5 (Cell)	20	17.46	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.564	18.98	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.34	Antenna 2	0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.677	18.07	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.29	Antenna 2	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.736	17.65	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.46	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.010	36.49	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.34	Antenna 2	0	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.010	36.37	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.46	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.437	20.09	17.65
836.50	167300	Mid	NR Band n5 (Cell)	20	17.34	Antenna 2	0	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.463	19.72	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.46	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.363	20.89	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.34	Antenna 2	0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.366	20.74	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.46	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.030	31.72	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.34	Antenna 2	0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.032	31.32	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-52
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n5

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
836.50	167300	Mid	NR Band n5 (Cell)	20	17.40	Antenna 4	0	DFT-S-OFDM	QPSK	1	53	0 mm	back	1:1	0.624	18.48	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.44	Antenna 4	0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.632	18.46	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.39	Antenna 4	0	DFT-S-OFDM	QPSK	100	0	0 mm	back	1:1	0.568	18.88	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.60	Antenna 4	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.655	18.47	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.40	Antenna 4	0	DFT-S-OFDM	QPSK	1	53	0 mm	top	1:1	0.386	20.57	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.44	Antenna 4	0	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.397	20.48	18.46
836.50	167300	Mid	NR Band n5 (Cell)	20	17.40	Antenna 4	0	DFT-S-OFDM	QPSK	1	53	0 mm	bottom	1:1	0.010	36.43	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.44	Antenna 4	0	DFT-S-OFDM	QPSK	50	0	0 mm	bottom	1:1	0.009	36.93	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.40	Antenna 4	0	DFT-S-OFDM	QPSK	1	53	0 mm	right	1:1	0.041	30.30	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.44	Antenna 4	0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.040	30.45	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.40	Antenna 4	0	DFT-S-OFDM	QPSK	1	53	0 mm	left	1:1	0.420	20.20	
836.50	167300	Mid	NR Band n5 (Cell)	20	17.44	Antenna 4	0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.409	20.35	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-53
DSI = 1 P_{Limit} Calculations – Antenna 1b NR Band n66

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.37	Antenna 1b	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.717	11.85	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.27	Antenna 1b	0	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.719	11.73	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.18	Antenna 1b	0	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.690	11.82	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.37	Antenna 1b	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.698	11.96	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.37	Antenna 1b	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.003	35.63	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.27	Antenna 1b	0	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.002	37.29	11.73
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.37	Antenna 1b	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.490	13.50	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.27	Antenna 1b	0	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.486	13.43	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.37	Antenna 1b	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.016	28.36	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.27	Antenna 1b	0	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.015	28.54	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.37	Antenna 1b	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.035	24.96	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.27	Antenna 1b	0	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.033	25.12	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-54
DSI = 1 P_{Limit} Calculations – Antenna 2 NR Band n66

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.16	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.706	13.70	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.17	Antenna 2	0	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.707	13.71	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.06	Antenna 2	0	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.668	13.84	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.15	Antenna 2	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.687	13.81	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.16	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.000	42.19	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.17	Antenna 2	0	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.002	39.19	13.70
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.16	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.625	14.23	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.17	Antenna 2	0	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.636	14.17	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.16	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.607	14.36	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.17	Antenna 2	0	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.601	14.41	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.16	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.003	37.42	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.17	Antenna 2	0	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.003	37.43	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-55
DSI = 1 P_{Limit} Calculations – Antenna 3b NR Band n66

MEASUREMENT RESULTS																		
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.84	Antenna 3b	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.646	12.77	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.89	Antenna 3b	0	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.636	12.89	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.79	Antenna 3b	0	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.617	12.92	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.79	Antenna 3b	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.621	12.89	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.84	Antenna 3b	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.618	12.96	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.89	Antenna 3b	0	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.595	13.18	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.79	Antenna 3b	0	DFT-S-OFDM	QPSK	216	0	0 mm	top	1:1	0.625	12.86	12.77
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.84	Antenna 3b	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.010	30.87	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.89	Antenna 3b	0	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.012	30.13	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.84	Antenna 3b	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.053	23.63	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.89	Antenna 3b	0	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.059	23.21	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.84	Antenna 3b	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.027	26.56	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.89	Antenna 3b	0	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.023	27.30	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table A-56
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n66

MEASUREMENT RESULTS																		
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.50	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.702	14.07	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.52	Antenna 4	0	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.755	13.77	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.44	Antenna 4	0	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.689	14.09	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.50	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.793	13.54	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.52	Antenna 4	0	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.720	13.98	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.44	Antenna 4	0	DFT-S-OFDM	QPSK	216	0	0 mm	top	1:1	0.733	13.82	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.50	Antenna 4	0	CP-OFDM	QPSK	1	1	0 mm	top	1:1	0.825	13.37	13.37
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.50	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.005	35.54	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.52	Antenna 4	0	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.009	33.01	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.50	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.008	33.50	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.52	Antenna 4	0	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.007	34.10	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.50	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.714	13.99	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.52	Antenna 4	0	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.716	14.00	
1745.00	349000	Mid	NR Band n66 (AWS)	40	13.44	Antenna 4	0	DFT-S-OFDM	QPSK	216	0	0 mm	left	1:1	0.708	13.97	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-57
DSI = 1 P_{Limit} Calculations – Antenna 1b NR Band n25

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.08	Antenna 1b	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.758	11.31	
1882.50	376500	Mid	NR Band n25 (PCS)	40	10.69	Antenna 1b	0	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.670	11.46	
1882.50	376500	Mid	NR Band n25 (PCS)	40	10.92	Antenna 1b	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.681	11.62	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.08	Antenna 1b	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.008	31.08	
1882.50	376500	Mid	NR Band n25 (PCS)	40	10.69	Antenna 1b	0	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.006	31.94	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.08	Antenna 1b	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.469	13.40	11.31
1882.50	376500	Mid	NR Band n25 (PCS)	40	10.69	Antenna 1b	0	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.428	13.41	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.08	Antenna 1b	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.019	27.32	
1882.50	376500	Mid	NR Band n25 (PCS)	40	10.69	Antenna 1b	0	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.016	27.68	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.08	Antenna 1b	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.039	24.20	
1882.50	376500	Mid	NR Band n25 (PCS)	40	10.69	Antenna 1b	0	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.037	24.04	

ANSI / IEEE C95.1 1992 - SAFETY LIMIT	Body
Spatial Peak	1.6 W/kg (mW/g)
Uncontrolled Exposure/General Population	averaged over 1 gram

Table A-58
DSI = 1 P_{Limit} Calculations – Antenna 2 NR Band n25

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.96	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.627	14.02	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.86	Antenna 2	0	DFT-S-OFDM	QPSK	108	108	0 mm	back	1:1	0.539	14.58	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.96	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.009	32.45	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.86	Antenna 2	0	DFT-S-OFDM	QPSK	108	108	0 mm	top	1:1	0.005	34.90	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.96	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.523	14.81	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.86	Antenna 2	0	DFT-S-OFDM	QPSK	108	108	0 mm	bottom	1:1	0.467	15.20	13.73
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.96	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.670	13.73	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.86	Antenna 2	0	DFT-S-OFDM	QPSK	108	108	0 mm	right	1:1	0.552	14.47	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.75	Antenna 2	0	DFT-S-OFDM	QPSK	216	0	0 mm	right	1:1	0.610	13.93	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.98	Antenna 2	0	CP-OFDM	QPSK	1	1	0 mm	right	1:1	0.640	13.95	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.96	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.004	35.97	
1882.50	376500	Mid	NR Band n25 (PCS)	40	12.86	Antenna 2	0	DFT-S-OFDM	QPSK	108	108	0 mm	left	1:1	0.001	41.89	

ANSI / IEEE C95.1 1992 - SAFETY LIMIT	Body
Spatial Peak	1.6 W/kg (mW/g)
Uncontrolled Exposure/General Population	averaged over 1 gram

Table A-59
DSI = 1 P_{Limit} Calculations – Antenna 3b NR Band n25

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.28	Antenna 3b	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.577	12.70	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.20	Antenna 3b	0	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.553	12.80	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.28	Antenna 3b	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.560	12.83	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.20	Antenna 3b	0	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.583	12.57	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.29	Antenna 3b	0	CP-OFDM	QPSK	1	1	0 mm	top	1:1	0.581	12.68	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.28	Antenna 3b	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.003	35.54	12.57
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.20	Antenna 3b	0	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.004	34.21	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.28	Antenna 3b	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.042	24.08	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.20	Antenna 3b	0	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.042	24.00	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.28	Antenna 3b	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.013	29.17	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.20	Antenna 3b	0	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.014	28.77	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-60
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n25

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.24	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.726	13.66	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.16	Antenna 4	0	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.748	13.45	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.12	Antenna 4	0	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.718	13.59	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.24	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.733	13.62	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.16	Antenna 4	0	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.665	13.96	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.12	Antenna 4	0	DFT-S-OFDM	QPSK	216	0	0 mm	top	1:1	0.687	13.78	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.24	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.009	32.73	13.21
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.16	Antenna 4	0	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.001	42.19	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.24	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.001	42.27	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.16	Antenna 4	0	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.000	42.19	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.24	Antenna 4	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.806	13.21	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.16	Antenna 4	0	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.633	14.18	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.12	Antenna 4	0	DFT-S-OFDM	QPSK	216	0	0 mm	left	1:1	0.635	14.12	
1882.50	376500	Mid	NR Band n25 (PCS)	40	13.20	Antenna 4	0	CP-OFDM	QPSK	1	1	0 mm	left	1:1	0.636	14.20	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-61
DSI = 1 P_{Limit} Calculations – Antenna 1b NR Band n30

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
2310.00	462000	Mid	NR Band n30	10	11.86	Antenna 1b	0	DFT-S-OFDM	QPSK	1	50	0 mm	back	1:1	0.661	12.69	
2310.00	462000	Mid	NR Band n30	10	11.87	Antenna 1b	0	DFT-S-OFDM	QPSK	25	27	0 mm	back	1:1	0.676	12.60	
2310.00	462000	Mid	NR Band n30	10	11.81	Antenna 1b	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.679	12.52	
2310.00	462000	Mid	NR Band n30	10	11.86	Antenna 1b	0	DFT-S-OFDM	QPSK	1	50	0 mm	top	1:1	0.000	40.89	
2310.00	462000	Mid	NR Band n30	10	11.87	Antenna 1b	0	DFT-S-OFDM	QPSK	25	27	0 mm	top	1:1	0.000	40.90	
2310.00	462000	Mid	NR Band n30	10	11.86	Antenna 1b	0	DFT-S-OFDM	QPSK	1	50	0 mm	bottom	1:1	0.500	13.90	12.52
2310.00	462000	Mid	NR Band n30	10	11.87	Antenna 1b	0	DFT-S-OFDM	QPSK	25	27	0 mm	bottom	1:1	0.510	13.83	
2310.00	462000	Mid	NR Band n30	10	11.86	Antenna 1b	0	DFT-S-OFDM	QPSK	1	50	0 mm	right	1:1	0.006	33.11	
2310.00	462000	Mid	NR Band n30	10	11.87	Antenna 1b	0	DFT-S-OFDM	QPSK	25	27	0 mm	right	1:1	0.007	32.45	
2310.00	462000	Mid	NR Band n30	10	11.86	Antenna 1b	0	DFT-S-OFDM	QPSK	1	50	0 mm	left	1:1	0.025	26.91	
2310.00	462000	Mid	NR Band n30	10	11.87	Antenna 1b	0	DFT-S-OFDM	QPSK	25	27	0 mm	left	1:1	0.026	26.75	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-62
DSI = 1 P_{Limit} Calculations – Antenna 2 NR Band n30

MEASUREMENT RESULTS																		
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
2310.00	462000	Mid	NR Band n30	10	12.32	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.734	12.69	
2310.00	462000	Mid	NR Band n30	10	12.25	Antenna 2	0	DFT-S-OFDM	QPSK	25	14	0 mm	back	1:1	0.709	12.77	
2310.00	462000	Mid	NR Band n30	10	12.22	Antenna 2	0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.715	12.71	
2310.00	462000	Mid	NR Band n30	10	12.27	Antenna 2	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.709	12.79	
2310.00	462000	Mid	NR Band n30	10	12.32	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.000	41.35	
2310.00	462000	Mid	NR Band n30	10	12.25	Antenna 2	0	DFT-S-OFDM	QPSK	25	14	0 mm	top	1:1	0.001	41.28	
2310.00	462000	Mid	NR Band n30	10	12.32	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.454	14.78	12.69
2310.00	462000	Mid	NR Band n30	10	12.25	Antenna 2	0	DFT-S-OFDM	QPSK	25	14	0 mm	bottom	1:1	0.430	14.95	
2310.00	462000	Mid	NR Band n30	10	12.32	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.540	14.03	
2310.00	462000	Mid	NR Band n30	10	12.25	Antenna 2	0	DFT-S-OFDM	QPSK	25	14	0 mm	right	1:1	0.654	13.13	
2310.00	462000	Mid	NR Band n30	10	12.22	Antenna 2	0	DFT-S-OFDM	QPSK	50	0	0 mm	right	1:1	0.629	13.26	
2310.00	462000	Mid	NR Band n30	10	12.32	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.002	38.34	
2310.00	462000	Mid	NR Band n30	10	12.25	Antenna 2	0	DFT-S-OFDM	QPSK	25	14	0 mm	left	1:1	0.002	38.27	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-63
DSI = 1 P_{Limit} Calculations – Antenna 3b NR Band n30

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
2310.00	462000	Mid	NR Band n30	10	13.42	Antenna 3b	0	DFT-S-OFDM	QPSK	1	50	0 mm	back	1:1	0.726	13.84	
2310.00	462000	Mid	NR Band n30	10	13.41	Antenna 3b	0	DFT-S-OFDM	QPSK	25	27	0 mm	back	1:1	0.709	13.93	
2310.00	462000	Mid	NR Band n30	10	13.36	Antenna 3b	0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.687	14.02	
2310.00	462000	Mid	NR Band n30	10	13.51	Antenna 3b	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.658	14.36	
2310.00	462000	Mid	NR Band n30	10	13.42	Antenna 3b	0	DFT-S-OFDM	QPSK	1	50	0 mm	top	1:1	0.664	14.23	
2310.00	462000	Mid	NR Band n30	10	13.41	Antenna 3b	0	DFT-S-OFDM	QPSK	25	27	0 mm	top	1:1	0.666	14.21	
2310.00	462000	Mid	NR Band n30	10	13.36	Antenna 3b	0	DFT-S-OFDM	QPSK	50	0	0 mm	top	1:1	0.653	14.24	13.84
2310.00	462000	Mid	NR Band n30	10	13.42	Antenna 3b	0	DFT-S-OFDM	QPSK	1	50	0 mm	bottom	1:1	0.000	42.45	
2310.00	462000	Mid	NR Band n30	10	13.41	Antenna 3b	0	DFT-S-OFDM	QPSK	25	27	0 mm	bottom	1:1	0.000	42.44	
2310.00	462000	Mid	NR Band n30	10	13.42	Antenna 3b	0	DFT-S-OFDM	QPSK	1	50	0 mm	right	1:1	0.026	28.30	
2310.00	462000	Mid	NR Band n30	10	13.41	Antenna 3b	0	DFT-S-OFDM	QPSK	25	27	0 mm	right	1:1	0.029	27.82	
2310.00	462000	Mid	NR Band n30	10	13.42	Antenna 3b	0	DFT-S-OFDM	QPSK	1	50	0 mm	left	1:1	0.022	29.03	
2310.00	462000	Mid	NR Band n30	10	13.41	Antenna 3b	0	DFT-S-OFDM	QPSK	25	27	0 mm	left	1:1	0.022	29.02	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-64
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n30

MEASUREMENT RESULTS																		
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
2310.00	462000	Mid	NR Band n30	10	13.34	Antenna 4	0	DFT-S-OFDM	QPSK	1	26	0 mm	back	1:1	0.758	13.57	
2310.00	462000	Mid	NR Band n30	10	13.30	Antenna 4	0	DFT-S-OFDM	QPSK	25	14	0 mm	back	1:1	0.732	13.69	
2310.00	462000	Mid	NR Band n30	10	13.22	Antenna 4	0	DFT-S-OFDM	QPSK	50	0	0 mm	back	1:1	0.710	13.74	
2310.00	462000	Mid	NR Band n30	10	13.18	Antenna 4	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.727	13.60	
2310.00	462000	Mid	NR Band n30	10	13.34	Antenna 4	0	DFT-S-OFDM	QPSK	1	26	0 mm	top	1:1	0.538	15.06	
2310.00	462000	Mid	NR Band n30	10	13.30	Antenna 4	0	DFT-S-OFDM	QPSK	25	14	0 mm	top	1:1	0.503	15.32	
2310.00	462000	Mid	NR Band n30	10	13.34	Antenna 4	0	DFT-S-OFDM	QPSK	1	26	0 mm	bottom	1:1	0.002	39.36	13.57
2310.00	462000	Mid	NR Band n30	10	13.30	Antenna 4	0	DFT-S-OFDM	QPSK	25	14	0 mm	bottom	1:1	0.002	39.32	
2310.00	462000	Mid	NR Band n30	10	13.34	Antenna 4	0	DFT-S-OFDM	QPSK	1	26	0 mm	right	1:1	0.002	39.36	
2310.00	462000	Mid	NR Band n30	10	13.30	Antenna 4	0	DFT-S-OFDM	QPSK	25	14	0 mm	right	1:1	0.001	42.33	
2310.00	462000	Mid	NR Band n30	10	13.34	Antenna 4	0	DFT-S-OFDM	QPSK	1	26	0 mm	left	1:1	0.635	14.34	
2310.00	462000	Mid	NR Band n30	10	13.30	Antenna 4	0	DFT-S-OFDM	QPSK	25	14	0 mm	left	1:1	0.722	13.75	
2310.00	462000	Mid	NR Band n30	10	13.22	Antenna 4	0	DFT-S-OFDM	QPSK	50	0	0 mm	left	1:1	0.705	13.77	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-65
DSI = 1 P_{Limit} Calculations – Antenna 1b NR Band n7

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
2535.00	507000	Mid	NR Band n7	40	12.09	Antenna 1b	0	DFT-S-OFDM	QPSK	1	108	0 mm	back	1:1	0.694	12.71	
2535.00	507000	Mid	NR Band n7	40	12.11	Antenna 1b	0	DFT-S-OFDM	QPSK	108	108	0 mm	back	1:1	0.704	12.67	
2535.00	507000	Mid	NR Band n7	40	12.06	Antenna 1b	0	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.707	12.60	
2535.00	507000	Mid	NR Band n7	40	11.92	Antenna 1b	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.682	12.61	
2535.00	507000	Mid	NR Band n7	40	12.09	Antenna 1b	0	DFT-S-OFDM	QPSK	1	108	0 mm	top	1:1	0.027	26.81	
2535.00	507000	Mid	NR Band n7	40	12.11	Antenna 1b	0	DFT-S-OFDM	QPSK	108	108	0 mm	top	1:1	0.024	27.34	12.60
2535.00	507000	Mid	NR Band n7	40	12.09	Antenna 1b	0	DFT-S-OFDM	QPSK	1	108	0 mm	bottom	1:1	0.609	13.27	
2535.00	507000	Mid	NR Band n7	40	12.11	Antenna 1b	0	DFT-S-OFDM	QPSK	108	108	0 mm	bottom	1:1	0.611	13.28	
2535.00	507000	Mid	NR Band n7	40	12.09	Antenna 1b	0	DFT-S-OFDM	QPSK	1	108	0 mm	right	1:1	0.027	26.81	
2535.00	507000	Mid	NR Band n7	40	12.11	Antenna 1b	0	DFT-S-OFDM	QPSK	108	108	0 mm	right	1:1	0.024	27.34	
2535.00	507000	Mid	NR Band n7	40	12.09	Antenna 1b	0	DFT-S-OFDM	QPSK	1	108	0 mm	left	1:1	0.028	26.65	
2535.00	507000	Mid	NR Band n7	40	12.11	Antenna 1b	0	DFT-S-OFDM	QPSK	108	108	0 mm	left	1:1	0.028	26.67	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-66
DSI = 1 P_{Limit} Calculations – Antenna 2 NR Band n7

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
2535.00	507000	Mid	NR Band n7	40	11.42	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.703	11.98	
2535.00	507000	Mid	NR Band n7	40	11.28	Antenna 2	0	DFT-S-OFDM	QPSK	108	108	0 mm	back	1:1	0.784	11.37	
2535.00	507000	Mid	NR Band n7	40	11.25	Antenna 2	0	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.786	11.33	
2535.00	507000	Mid	NR Band n7	40	11.39	Antenna 2	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.750	11.67	
2535.00	507000	Mid	NR Band n7	40	11.42	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.012	29.66	
2535.00	507000	Mid	NR Band n7	40	11.28	Antenna 2	0	DFT-S-OFDM	QPSK	108	108	0 mm	top	1:1	0.009	30.77	11.33
2535.00	507000	Mid	NR Band n7	40	11.42	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.555	13.01	
2535.00	507000	Mid	NR Band n7	40	11.28	Antenna 2	0	DFT-S-OFDM	QPSK	108	108	0 mm	bottom	1:1	0.556	12.86	
2535.00	507000	Mid	NR Band n7	40	11.42	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.608	12.61	
2535.00	507000	Mid	NR Band n7	40	11.28	Antenna 2	0	DFT-S-OFDM	QPSK	108	108	0 mm	right	1:1	0.663	12.10	
2535.00	507000	Mid	NR Band n7	40	11.42	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.011	30.04	
2535.00	507000	Mid	NR Band n7	40	11.28	Antenna 2	0	DFT-S-OFDM	QPSK	108	108	0 mm	left	1:1	0.006	32.53	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-67
DSI = 1 P_{Limit} Calculations – Antenna 3b NR Band n7

MEASUREMENT RESULTS																		
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
2535.00	507000	Mid	NR Band n7	40	13.39	Antenna 3b	0	DFT-S-OFDM	QPSK	1	108	0 mm	back	1:1	0.592	14.70	
2535.00	507000	Mid	NR Band n7	40	13.37	Antenna 3b	0	DFT-S-OFDM	QPSK	108	54	0 mm	back	1:1	0.579	14.77	
2535.00	507000	Mid	NR Band n7	40	13.36	Antenna 3b	0	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.530	15.15	
2535.00	507000	Mid	NR Band n7	40	13.39	Antenna 3b	0	DFT-S-OFDM	QPSK	1	108	0 mm	top	1:1	0.629	14.43	
2535.00	507000	Mid	NR Band n7	40	13.37	Antenna 3b	0	DFT-S-OFDM	QPSK	108	54	0 mm	top	1:1	0.631	14.40	
2535.00	507000	Mid	NR Band n7	40	13.36	Antenna 3b	0	DFT-S-OFDM	QPSK	216	0	0 mm	top	1:1	0.655	14.23	
2535.00	507000	Mid	NR Band n7	40	13.38	Antenna 3b	0	CP-OFDM	QPSK	1	1	0 mm	top	1:1	0.614	14.53	14.23
2535.00	507000	Mid	NR Band n7	40	13.39	Antenna 3b	0	DFT-S-OFDM	QPSK	1	108	0 mm	bottom	1:1	0.000	42.42	
2535.00	507000	Mid	NR Band n7	40	13.37	Antenna 3b	0	DFT-S-OFDM	QPSK	108	54	0 mm	bottom	1:1	0.000	42.40	
2535.00	507000	Mid	NR Band n7	40	13.39	Antenna 3b	0	DFT-S-OFDM	QPSK	1	108	0 mm	right	1:1	0.026	28.27	
2535.00	507000	Mid	NR Band n7	40	13.37	Antenna 3b	0	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	0.028	27.93	
2535.00	507000	Mid	NR Band n7	40	13.39	Antenna 3b	0	DFT-S-OFDM	QPSK	1	108	0 mm	left	1:1	0.017	30.12	
2535.00	507000	Mid	NR Band n7	40	13.37	Antenna 3b	0	DFT-S-OFDM	QPSK	108	54	0 mm	left	1:1	0.017	30.10	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-68
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n7

MEASUREMENT RESULTS																		
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
2535.00	507000	Mid	NR Band n7	40	11.89	Antenna 4	0	DFT-S-OFDM	QPSK	1	214	0 mm	back	1:1	0.845	11.65	
2535.00	507000	Mid	NR Band n7	40	11.87	Antenna 4	0	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.859	11.56	
2535.00	507000	Mid	NR Band n7	40	11.80	Antenna 4	0	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	0.826	11.66	
2535.00	507000	Mid	NR Band n7	40	11.67	Antenna 4	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.838	11.47	
2535.00	507000	Mid	NR Band n7	40	11.89	Antenna 4	0	DFT-S-OFDM	QPSK	1	214	0 mm	top	1:1	0.469	14.21	
2535.00	507000	Mid	NR Band n7	40	11.87	Antenna 4	0	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.446	14.41	11.47
2535.00	507000	Mid	NR Band n7	40	11.89	Antenna 4	0	DFT-S-OFDM	QPSK	1	214	0 mm	bottom	1:1	0.000	40.92	
2535.00	507000	Mid	NR Band n7	40	11.87	Antenna 4	0	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.001	40.90	
2535.00	507000	Mid	NR Band n7	40	11.89	Antenna 4	0	DFT-S-OFDM	QPSK	1	214	0 mm	right	1:1	0.000	40.92	
2535.00	507000	Mid	NR Band n7	40	11.87	Antenna 4	0	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.002	37.89	
2535.00	507000	Mid	NR Band n7	40	11.89	Antenna 4	0	DFT-S-OFDM	QPSK	1	214	0 mm	left	1:1	0.483	14.08	
2535.00	507000	Mid	NR Band n7	40	11.87	Antenna 4	0	DFT-S-OFDM	QPSK	108	0	0 mm	left	1:1	0.578	13.28	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-69
DSI = 1 P_{Limit} Calculations – Antenna 1b NR Band n41 PC2

MEASUREMENT RESULTS																		
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
2592.99	518598	Mid	NR Band n41	100	11.41	Antenna 1b	0	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.635	12.41	
2592.99	518598	Mid	NR Band n41	100	11.31	Antenna 1b	0	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.609	12.49	
2592.99	518598	Mid	NR Band n41	100	11.30	Antenna 1b	0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.641	12.26	
2592.99	518598	Mid	NR Band n41	100	11.34	Antenna 1b	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.649	12.25	
2592.99	518598	Mid	NR Band n41	100	11.41	Antenna 1b	0	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	0.000	40.44	
2592.99	518598	Mid	NR Band n41	100	11.31	Antenna 1b	0	DFT-S-OFDM	QPSK	135	138	0 mm	top	1:1	0.000	40.34	
2592.99	518598	Mid	NR Band n41	100	11.41	Antenna 1b	0	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.618	12.53	12.25
2592.99	518598	Mid	NR Band n41	100	11.31	Antenna 1b	0	DFT-S-OFDM	QPSK	135	138	0 mm	bottom	1:1	0.615	12.45	
2592.99	518598	Mid	NR Band n41	100	11.30	Antenna 1b	0	DFT-S-OFDM	QPSK	270	0	0 mm	bottom	1:1	0.621	12.40	
2592.99	518598	Mid	NR Band n41	100	11.41	Antenna 1b	0	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.010	30.44	
2592.99	518598	Mid	NR Band n41	100	11.31	Antenna 1b	0	DFT-S-OFDM	QPSK	135	138	0 mm	right	1:1	0.009	30.80	
2592.99	518598	Mid	NR Band n41	100	11.41	Antenna 1b	0	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.019	27.65	
2592.99	518598	Mid	NR Band n41	100	11.31	Antenna 1b	0	DFT-S-OFDM	QPSK	135	138	0 mm	left	1:1	0.021	27.12	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-70
DSI = 1 P_{Limit} Calculations – Antenna 2 NR Band n41 PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
2592.99	518598	Mid	NR Band n41	100	11.56	Antenna 2	0	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.714	12.05	
2592.99	518598	Mid	NR Band n41	100	11.60	Antenna 2	0	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.710	12.12	
2592.99	518598	Mid	NR Band n41	100	11.54	Antenna 2	0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.717	12.02	
2592.99	518598	Mid	NR Band n41	100	11.61	Antenna 2	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.729	12.01	
2592.99	518598	Mid	NR Band n41	100	11.56	Antenna 2	0	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	0.000	40.59	
2592.99	518598	Mid	NR Band n41	100	11.60	Antenna 2	0	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	0.000	40.63	
2592.99	518598	Mid	NR Band n41	100	11.56	Antenna 2	0	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.518	13.45	12.01
2592.99	518598	Mid	NR Band n41	100	11.60	Antenna 2	0	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	0.531	13.38	
2592.99	518598	Mid	NR Band n41	100	11.54	Antenna 2	0	DFT-S-OFDM	QPSK	270	0	0 mm	bottom	1:1	0.552	13.15	
2592.99	518598	Mid	NR Band n41	100	11.56	Antenna 2	0	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.616	12.70	
2592.99	518598	Mid	NR Band n41	100	11.60	Antenna 2	0	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	0.597	12.87	
2592.99	518598	Mid	NR Band n41	100	11.54	Antenna 2	0	DFT-S-OFDM	QPSK	270	0	0 mm	right	1:1	0.584	12.91	
2592.99	518598	Mid	NR Band n41	100	11.56	Antenna 2	0	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.006	32.81	
2592.99	518598	Mid	NR Band n41	100	11.60	Antenna 2	0	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	0.006	32.85	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-71
DSI = 1 P_{Limit} Calculations – Antenna 3b NR Band n41 PC2

MEASUREMENT RESULTS																		
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
2592.99	518598	Mid	NR Band n41	100	13.77	Antenna 3b	0	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.609	14.95	
2592.99	518598	Mid	NR Band n41	100	13.63	Antenna 3b	0	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.608	14.82	
2592.99	518598	Mid	NR Band n41	100	13.60	Antenna 3b	0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.621	14.70	
2592.99	518598	Mid	NR Band n41	100	13.77	Antenna 3b	0	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	0.769	13.94	
2592.99	518598	Mid	NR Band n41	100	13.63	Antenna 3b	0	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	0.631	14.66	
2592.99	518598	Mid	NR Band n41	100	13.60	Antenna 3b	0	DFT-S-OFDM	QPSK	270	0	0 mm	top	1:1	0.728	14.01	
2592.99	518598	Mid	NR Band n41	100	13.60	Antenna 3b	0	CP-OFDM	QPSK	1	1	0 mm	top	1:1	0.737	13.96	13.94
2592.99	518598	Mid	NR Band n41	100	13.77	Antenna 3b	0	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.026	28.65	
2592.99	518598	Mid	NR Band n41	100	13.63	Antenna 3b	0	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	0.022	29.24	
2592.99	518598	Mid	NR Band n41	100	13.77	Antenna 3b	0	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.022	29.38	
2592.99	518598	Mid	NR Band n41	100	13.63	Antenna 3b	0	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	0.027	28.35	
2592.99	518598	Mid	NR Band n41	100	13.77	Antenna 3b	0	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.020	29.79	
2592.99	518598	Mid	NR Band n41	100	13.63	Antenna 3b	0	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	0.026	28.51	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-72
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n41 PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
2592.99	518598	Mid	NR Band n41	100	11.51	Antenna 4	0	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.814	11.43	
2592.99	518598	Mid	NR Band n41	100	11.40	Antenna 4	0	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.803	11.38	
2592.99	518598	Mid	NR Band n41	100	11.29	Antenna 4	0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.812	11.23	
2592.99	518598	Mid	NR Band n41	100	11.38	Antenna 4	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.793	11.42	
2592.99	518598	Mid	NR Band n41	100	11.51	Antenna 4	0	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	0.476	13.76	
2592.99	518598	Mid	NR Band n41	100	11.40	Antenna 4	0	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	0.457	13.83	
2592.99	518598	Mid	NR Band n41	100	11.51	Antenna 4	0	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.000	40.54	11.23
2592.99	518598	Mid	NR Band n41	100	11.40	Antenna 4	0	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	0.005	33.44	
2592.99	518598	Mid	NR Band n41	100	11.51	Antenna 4	0	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.006	32.76	
2592.99	518598	Mid	NR Band n41	100	11.40	Antenna 4	0	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	0.006	32.65	
2592.99	518598	Mid	NR Band n41	100	11.51	Antenna 4	0	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.564	13.03	
2592.99	518598	Mid	NR Band n41	100	11.40	Antenna 4	0	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	0.552	13.01	
2592.99	518598	Mid	NR Band n41	100	11.29	Antenna 4	0	DFT-S-OFDM	QPSK	270	0	0 mm	left	1:1	0.568	12.78	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-73
DSI = 1 P_{Limit} Calculations – Antenna 1a NR Band n77 DOD PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
3500.01	633334	Mid	NR Band n77	100	9.49	Antenna 1a	0	DFT-S-OFDM	QPSK	1	271	0 mm	back	1:1	0.626	10.56	
3500.01	633334	Mid	NR Band n77	100	9.53	Antenna 1a	0	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.620	10.64	
3500.01	633334	Mid	NR Band n77	100	9.49	Antenna 1a	0	DFT-S-OFDM	QPSK	1	271	0 mm	top	1:1	0.002	35.51	
3500.01	633334	Mid	NR Band n77	100	9.53	Antenna 1a	0	DFT-S-OFDM	QPSK	135	138	0 mm	top	1:1	0.000	38.56	
3500.01	633334	Mid	NR Band n77	100	9.49	Antenna 1a	0	DFT-S-OFDM	QPSK	1	271	0 mm	bottom	1:1	0.235	14.81	
3500.01	633334	Mid	NR Band n77	100	9.53	Antenna 1a	0	DFT-S-OFDM	QPSK	135	138	0 mm	bottom	1:1	0.225	15.04	9.97
3500.01	633334	Mid	NR Band n77	100	9.49	Antenna 1a	0	DFT-S-OFDM	QPSK	1	271	0 mm	right	1:1	0.000	38.52	
3500.01	633334	Mid	NR Band n77	100	9.53	Antenna 1a	0	DFT-S-OFDM	QPSK	135	138	0 mm	right	1:1	0.000	38.56	
3500.01	633334	Mid	NR Band n77	100	9.49	Antenna 1a	0	DFT-S-OFDM	QPSK	1	271	0 mm	left	1:1	0.678	10.21	
3500.01	633334	Mid	NR Band n77	100	9.53	Antenna 1a	0	DFT-S-OFDM	QPSK	135	138	0 mm	left	1:1	0.694	10.15	
3500.01	633334	Mid	NR Band n77	100	9.48	Antenna 1a	0	DFT-S-OFDM	QPSK	270	0	0 mm	left	1:1	0.695	10.09	
3500.01	633334	Mid	NR Band n77	100	9.37	Antenna 1a	0	CP-OFDM	QPSK	1	1	0 mm	left	1:1	0.696	9.97	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-74
DSI = 1 P_{Limit} Calculations – Antenna 2 NR Band n77 DOD PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
3500.01	633334	Mid	NR Band n77	100	10.65	Antenna 2	0	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.746	10.95	
3500.01	633334	Mid	NR Band n77	100	10.75	Antenna 2	0	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	0.754	11.01	
3500.01	633334	Mid	NR Band n77	100	10.60	Antenna 2	0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.703	11.16	
3500.01	633334	Mid	NR Band n77	100	10.68	Antenna 2	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.714	11.17	
3500.01	633334	Mid	NR Band n77	100	10.65	Antenna 2	0	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	0.014	28.22	
3500.01	633334	Mid	NR Band n77	100	10.75	Antenna 2	0	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	0.004	33.76	10.95
3500.01	633334	Mid	NR Band n77	100	10.65	Antenna 2	0	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.363	14.08	
3500.01	633334	Mid	NR Band n77	100	10.75	Antenna 2	0	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	0.379	13.99	
3500.01	633334	Mid	NR Band n77	100	10.65	Antenna 2	0	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.299	14.92	
3500.01	633334	Mid	NR Band n77	100	10.75	Antenna 2	0	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	0.286	15.22	
3500.01	633334	Mid	NR Band n77	100	10.65	Antenna 2	0	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.000	39.68	
3500.01	633334	Mid	NR Band n77	100	10.75	Antenna 2	0	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	0.000	39.78	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-75
DSI = 1 P_{Limit} Calculations – Antenna 3a NR Band n77 DOD PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
3500.01	633334	Mid	NR Band n77	100	10.01	Antenna 3a	0	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.379	13.25	10.51
3500.01	633334	Mid	NR Band n77	100	10.08	Antenna 3a	0	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.412	12.96	
3500.01	633334	Mid	NR Band n77	100	10.01	Antenna 3a	0	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	0.207	15.88	
3500.01	633334	Mid	NR Band n77	100	10.08	Antenna 3a	0	DFT-S-OFDM	QPSK	135	138	0 mm	top	1:1	0.214	15.81	
3500.01	633334	Mid	NR Band n77	100	10.01	Antenna 3a	0	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	0.002	36.03	
3500.01	633334	Mid	NR Band n77	100	10.08	Antenna 3a	0	DFT-S-OFDM	QPSK	135	138	0 mm	bottom	1:1	0.004	33.09	
3500.01	633334	Mid	NR Band n77	100	10.01	Antenna 3a	0	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	0.706	10.55	
3500.01	633334	Mid	NR Band n77	100	10.08	Antenna 3a	0	DFT-S-OFDM	QPSK	135	138	0 mm	right	1:1	0.688	10.74	
3500.01	633334	Mid	NR Band n77	100	10.00	Antenna 3a	0	DFT-S-OFDM	QPSK	270	0	0 mm	right	1:1	0.689	10.65	
3500.01	633334	Mid	NR Band n77	100	9.95	Antenna 3a	0	CP-OFDM	QPSK	1	1	0 mm	right	1:1	0.704	10.51	
3500.01	633334	Mid	NR Band n77	100	10.01	Antenna 3a	0	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	0.000	39.04	
3500.01	633334	Mid	NR Band n77	100	10.08	Antenna 3a	0	DFT-S-OFDM	QPSK	135	138	0 mm	left	1:1	0.003	34.34	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-76
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n77 DOD PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
3500.01	633334	Mid	NR Band n77	100	10.73	Antenna 4	0	DFT-S-OFDM	QPSK	1	271	0 mm	back	1:1	0.726	11.15	10.95
3500.01	633334	Mid	NR Band n77	100	10.60	Antenna 4	0	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.730	11.00	
3500.01	633334	Mid	NR Band n77	100	10.58	Antenna 4	0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.735	10.95	
3500.01	633334	Mid	NR Band n77	100	10.74	Antenna 4	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.734	11.11	
3500.01	633334	Mid	NR Band n77	100	10.73	Antenna 4	0	DFT-S-OFDM	QPSK	1	271	0 mm	top	1:1	0.290	15.14	
3500.01	633334	Mid	NR Band n77	100	10.60	Antenna 4	0	DFT-S-OFDM	QPSK	135	138	0 mm	top	1:1	0.318	14.61	
3500.01	633334	Mid	NR Band n77	100	10.73	Antenna 4	0	DFT-S-OFDM	QPSK	1	271	0 mm	bottom	1:1	0.000	39.76	
3500.01	633334	Mid	NR Band n77	100	10.60	Antenna 4	0	DFT-S-OFDM	QPSK	135	138	0 mm	bottom	1:1	0.005	32.64	
3500.01	633334	Mid	NR Band n77	100	10.73	Antenna 4	0	DFT-S-OFDM	QPSK	1	271	0 mm	right	1:1	0.003	34.99	
3500.01	633334	Mid	NR Band n77	100	10.60	Antenna 4	0	DFT-S-OFDM	QPSK	135	138	0 mm	right	1:1	0.001	39.63	
3500.01	633334	Mid	NR Band n77	100	10.73	Antenna 4	0	DFT-S-OFDM	QPSK	1	271	0 mm	left	1:1	0.440	13.33	
3500.01	633334	Mid	NR Band n77	100	10.60	Antenna 4	0	DFT-S-OFDM	QPSK	135	138	0 mm	left	1:1	0.423	13.37	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-77
DSI = 1 P_{Limit} Calculations – Antenna 1a NR Band n77 C PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
3750.00	650000	Low	NR Band n77	100	10.28	Antenna 1a	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.602	11.51	
3930.00	662000	High	NR Band n77	100	10.31	Antenna 1a	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.712	10.82	
3750.00	650000	Low	NR Band n77	100	10.30	Antenna 1a	0	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	0.585	11.66	
3930.00	662000	High	NR Band n77	100	10.31	Antenna 1a	0	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	0.653	11.19	
3750.00	650000	Low	NR Band n77	100	10.30	Antenna 1a	0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.652	11.19	
3930.00	662000	High	NR Band n77	100	10.31	Antenna 1a	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.000	39.34	
3930.00	662000	High	NR Band n77	100	10.31	Antenna 1a	0	DFT-S-OFDM	QPSK	135	0	0 mm	top	1:1	0.000	39.34	
3930.00	662000	High	NR Band n77	100	10.31	Antenna 1a	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.233	15.67	
3930.00	662000	High	NR Band n77	100	10.31	Antenna 1a	0	DFT-S-OFDM	QPSK	135	0	0 mm	bottom	1:1	0.180	16.79	10.62
3930.00	662000	High	NR Band n77	100	10.31	Antenna 1a	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.001	39.34	
3930.00	662000	High	NR Band n77	100	10.31	Antenna 1a	0	DFT-S-OFDM	QPSK	135	0	0 mm	right	1:1	0.000	39.34	
3750.00	650000	Low	NR Band n77	100	10.28	Antenna 1a	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.694	10.90	
3930.00	662000	High	NR Band n77	100	10.31	Antenna 1a	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.682	11.00	
3750.00	650000	Low	NR Band n77	100	10.30	Antenna 1a	0	DFT-S-OFDM	QPSK	135	0	0 mm	left	1:1	0.661	11.13	
3930.00	662000	High	NR Band n77	100	10.31	Antenna 1a	0	DFT-S-OFDM	QPSK	135	0	0 mm	left	1:1	0.581	11.70	
3750.00	650000	Low	NR Band n77	100	10.30	Antenna 1a	0	DFT-S-OFDM	QPSK	270	0	0 mm	left	1:1	0.743	10.62	
3930.00	662000	High	NR Band n77	100	10.30	Antenna 1a	0	CP-OFDM	QPSK	1	1	0 mm	left	1:1	0.689	10.95	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-78
DSI = 1 P_{Limit} Calculations – Antenna 2 NR Band n77 C PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
3750.00	650000	Low	NR Band n77	100	9.95	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.451	12.44	
3930.00	662000	High	NR Band n77	100	9.64	Antenna 2	0	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.443	12.21	
3750.00	650000	Low	NR Band n77	100	10.00	Antenna 2	0	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	0.405	12.96	
3930.00	662000	High	NR Band n77	100	9.64	Antenna 2	0	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.425	12.39	
3750.00	650000	Low	NR Band n77	100	9.90	Antenna 2	0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.374	13.20	
3750.00	650000	Low	NR Band n77	100	9.99	Antenna 2	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.503	12.01	
3750.00	650000	Low	NR Band n77	100	9.95	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.002	35.97	12.01
3750.00	650000	Low	NR Band n77	100	10.00	Antenna 2	0	DFT-S-OFDM	QPSK	135	0	0 mm	top	1:1	0.001	39.03	
3750.00	650000	Low	NR Band n77	100	9.95	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.186	16.29	
3750.00	650000	Low	NR Band n77	100	10.00	Antenna 2	0	DFT-S-OFDM	QPSK	135	0	0 mm	bottom	1:1	0.170	16.73	
3750.00	650000	Low	NR Band n77	100	9.95	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.183	16.36	
3750.00	650000	Low	NR Band n77	100	10.00	Antenna 2	0	DFT-S-OFDM	QPSK	135	0	0 mm	right	1:1	0.187	16.31	
3750.00	650000	Low	NR Band n77	100	9.95	Antenna 2	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.000	38.98	
3750.00	650000	Low	NR Band n77	100	10.00	Antenna 2	0	DFT-S-OFDM	QPSK	135	0	0 mm	left	1:1	0.000	39.03	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-79
DSI = 1 P_{Limit} Calculations – Antenna 3a NR Band n77 C PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
3750.00	650000	Low	NR Band n77	100	10.82	Antenna 3a	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.517	12.72	
3930.00	662000	High	NR Band n77	100	10.72	Antenna 3a	0	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.408	13.64	
3750.00	650000	Low	NR Band n77	100	10.89	Antenna 3a	0	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	0.512	12.83	
3930.00	662000	High	NR Band n77	100	10.77	Antenna 3a	0	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.369	14.13	
3750.00	650000	Low	NR Band n77	100	10.81	Antenna 3a	0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.501	12.84	
3750.00	650000	Low	NR Band n77	100	10.82	Antenna 3a	0	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.215	16.53	
3750.00	650000	Low	NR Band n77	100	10.89	Antenna 3a	0	DFT-S-OFDM	QPSK	135	0	0 mm	top	1:1	0.200	16.91	
3750.00	650000	Low	NR Band n77	100	10.82	Antenna 3a	0	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.002	36.84	
3750.00	650000	Low	NR Band n77	100	10.89	Antenna 3a	0	DFT-S-OFDM	QPSK	135	0	0 mm	bottom	1:1	0.001	39.92	11.31
3750.00	650000	Low	NR Band n77	100	10.82	Antenna 3a	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.715	11.31	
3930.00	662000	High	NR Band n77	100	10.72	Antenna 3a	0	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.669	11.50	
3750.00	650000	Low	NR Band n77	100	10.89	Antenna 3a	0	DFT-S-OFDM	QPSK	135	0	0 mm	right	1:1	0.690	11.53	
3930.00	662000	High	NR Band n77	100	10.77	Antenna 3a	0	DFT-S-OFDM	QPSK	135	138	0 mm	right	1:1	0.641	11.73	
3750.00	650000	Low	NR Band n77	100	10.81	Antenna 3a	0	DFT-S-OFDM	QPSK	270	0	0 mm	right	1:1	0.676	11.54	
3750.00	650000	Low	NR Band n77	100	10.75	Antenna 3a	0	CP-OFDM	QPSK	1	1	0 mm	right	1:1	0.686	11.42	
3750.00	650000	Low	NR Band n77	100	10.82	Antenna 3a	0	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.011	29.44	
3750.00	650000	Low	NR Band n77	100	10.89	Antenna 3a	0	DFT-S-OFDM	QPSK	135	0	0 mm	left	1:1	0.000	39.92	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table A-80
DSI = 1 P_{Limit} Calculations – Antenna 4 NR Band n77 C PC2

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Minimum Plimit
MHz	Ch.														(W/kg)	[dBm]	[dBm]
3750.00	650000	Low	NR Band n77	100	11.03	Antenna 4	0	DFT-S-OFDM	QPSK	1	271	0 mm	back	1:1	0.467	13.37	
3930.00	662000	High	NR Band n77	100	10.84	Antenna 4	0	DFT-S-OFDM	QPSK	1	271	0 mm	back	1:1	0.439	13.45	
3750.00	650000	Low	NR Band n77	100	11.04	Antenna 4	0	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.522	12.89	
3930.00	662000	High	NR Band n77	100	10.85	Antenna 4	0	DFT-S-OFDM	QPSK	135	138	0 mm	back	1:1	0.447	13.38	
3750.00	650000	Low	NR Band n77	100	10.82	Antenna 4	0	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	0.569	12.30	
3750.00	650000	Low	NR Band n77	100	10.47	Antenna 4	0	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.712	10.98	
3750.00	650000	Low	NR Band n77	100	11.03	Antenna 4	0	DFT-S-OFDM	QPSK	1	271	0 mm	top	1:1	0.137	18.69	
3750.00	650000	Low	NR Band n77	100	11.04	Antenna 4	0	DFT-S-OFDM	QPSK	135	138	0 mm	top	1:1	0.137	18.70	
3750.00	650000	Low	NR Band n77	100	11.03	Antenna 4	0	DFT-S-OFDM	QPSK	1	271	0 mm	bottom	1:1	0.000	40.06	10.98
3750.00	650000	Low	NR Band n77	100	11.04	Antenna 4	0	DFT-S-OFDM	QPSK	135	138	0 mm	bottom	1:1	0.000	40.07	
3750.00	650000	Low	NR Band n77	100	11.03	Antenna 4	0	DFT-S-OFDM	QPSK	1	271	0 mm	right	1:1	0.000	40.06	
3750.00	650000	Low	NR Band n77	100	11.04	Antenna 4	0	DFT-S-OFDM	QPSK	135	138	0 mm	right	1:1	0.000	40.07	
3750.00	650000	Low	NR Band n77	100	11.03	Antenna 4	0	DFT-S-OFDM	QPSK	1	271	0 mm	left	1:1	0.379	14.27	
3930.00	662000	High	NR Band n77	100	10.84	Antenna 4	0	DFT-S-OFDM	QPSK	1	271	0 mm	left	1:1	0.570	12.31	
3750.00	650000	Low	NR Band n77	100	11.04	Antenna 4	0	DFT-S-OFDM	QPSK	135	138	0 mm	left	1:1	0.359	14.52	
3930.00	662000	High	NR Band n77	100	10.85	Antenna 4	0	DFT-S-OFDM	QPSK	135	138	0 mm	left	1:1	0.564	12.37	
3750.00	650000	Low	NR Band n77	100	10.82	Antenna 4	0	DFT-S-OFDM	QPSK	270	0	0 mm	left	1:1	0.358	14.31	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										