

SAR EVALUATION REPORT

IEEE Std 1528-2013

For GSM/WCDMA/LTE/5G Phone with BT, DTS/UNII a/b/g/n/ac/ax, GPS, WPT, & NFC

FCC ID: PY7-43624K

Report Number: R14777408-S1 v2 Issue Date: 8/23/2023

> Prepared for Sony Corporation 1-7-1 Konan Minato-ku Tokyo, 108-0075, Japan

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Revision History

Rev.	Date	Revisions	Revised By
V1	8/16/2023	Initial Issue	
V2	8/23/2023	Updated §12.2 estimated SAR title from WWAN to NFC and changed the estimated SAR table from 1-g to 10-g.	Lindsay Ryan

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1. Attestation of Test Results

Applicant Name		Sony Corporation					
FCC ID		PY7-43624K					
Applicable Standards		Published RF exposi IEEE Std 1528-201	sure KDB procedure 3	es			
			SAR Limi	its (W/Kg)			
Exposure Category		Peak spatial-average (1g of tissue)		Extremities (hands, wrists, ankles, etc.) (10g of tissue)			
General population / Uncontrolled exposure		1.6	4				
DE Evacouro Co	anditiona	Equipment Class - Highest Reported SAR (W/kg)					
RF Exposure Co	orialions	PCE	DTS	NII	DSS	NFC	
Head		0.112	0.458	0.276	0.305	N/A	
Body-worn*		0.320	0.169	0.068	0.088	N/A	
Hotspot/BT Tet	hering	0.438	0.169	0.075	0.088	N/A	
Extremity (10g)		N/A	N/A	0.489	N/A	0.501	
Simultaneous TX	Head/Body- worn/Hotspot/ BT Tethering (1g)	0.790	0.790	0.790	0.761	N/A	
	Extremity (10g)	N/A	N/A	1.362	N/A	1.362	
Date Tested		7/10/2023 to 7/25/2023					
Test Results		Pass					

*Note: The Body-worn minimum separation distance is 10 mm. To cover both body-worn and hotspot RF exposure conditions testing was performed at a separation distance of 10 mm.

Note: Some WWAN conducted power data is referenced from FCC ID: PY7-76732V (UL report #14777340-S1) and is leveraged to cover variant FCC ID: PY7-43624K. WLAN and Bluetooth SAR data is referenced from FCC ID: PY7-76732V (UL report #14777340-S1) and is leveraged to cover variant FCC ID: PY7-43624K. All circuitry and features for WWAN, WLAN, and Bluetooth operations are identical between the two variants. The data reuse test plan was approved via manufacturer, with spot check measurements on worst case conditions for WLAN and Bluetooth. Worst case SAR results for WLAN and Bluetooth from referenced variant FCC ID: PY7-76732V are listed above. WLAN and Bluetooth SAR results from FCC ID: PY7-76732V have been used in this report for Simultaneous Transmission analysis.

(continued next page)

UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

This report contains data provided by the customer which can impact the validity of results. UL LLC is only responsible for the validity of results after the integration of the data provided by the customer.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

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Approved & Released By:	Prepared By:		
Richard Jankovies	Lindsay Ryan		
Richard Jankovics	Lindsay Ryan		
Operations Leader	Engineer		
UL LLC	UL LLC		

2. Test Specification, Methods and Procedures

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

- 248227 D01 802.11 Wi-Fi SAR v02r02
- o 447498 D01 General RF Exposure Guidance v06
- o 447498 D03 Supplement C Cross-Reference v01
- 648474 D04 Handset SAR v01r03
- 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
- 865664 D02 RF Exposure Reporting v01r02
- 941225 D01 3G SAR Procedures v03r01
- 941225 D05 SAR for LTE Devices v02r05
- 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01r02
- o 941225 D06 Hotspot Mode v02r01
- 941225 D07 UMPC Mini Tablet v01r02

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

- o TCB Workshop October 2014; RF Exposure Procedures (Other LTE Considerations)
- o TCB Workshop April 2015; RF Exposure Procedures (Overlapping LTE Bands)
- o TCB Workshop October 2015; RF Exposure Procedures (KDB 941225 D05A)
- TCB Workshop October 2016; RF Exposure Procedures (Bluetooth Duty Factor)
- TCB Workshop October 2016; RF Exposure Procedures (DUT Holder Perturbations)
- TCB Workshop May 2017; RF Exposure Procedures (Broadband Liquid Above 3 GHz)
- o TCB Workshop April 2019; RF Exposure Procedures (Tissue Simulating Liquids (TSL))
- TCB Workshop April 2019; RF Exposure Procedures (802.11ax SAR Testing)

3. Facilities and Accreditation

UL LLC is accredited by A2LA, cert. # 0751.06 for all testing performed within the scope of this report. Testing was performed at the locations noted below.

The test sites and measurement facilities used to collect data are located at 2800 Perimeter Park Dr, Morrisville, NC, USA.

- SAR Lab 1A
- SAR Lab 2A
- SAR Lab 2B

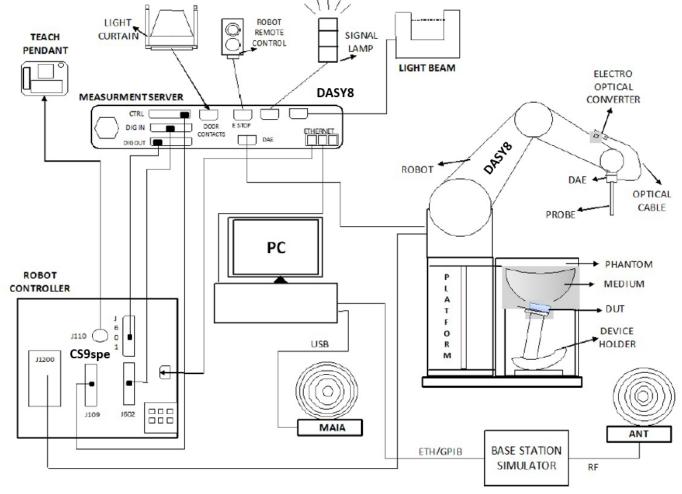
	Address	ISED CABID	ISED Company Number	FCC Registration
	Building: 12 Laboratory Dr RTP, NC 27709, U.S.A	US0067	2180C	825374
\boxtimes	Building: 2800 Perimeter Park Dr. Suite B Morrisville, NC 27560, U.S.A	US0067	27265	825374

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4. SAR Measurement System & Test Equipment

4.1. SAR Measurement System

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



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, ADconversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win10 and the DASY81 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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DASY8 software used: DASY16.2.2.1588 and older generations.

4.2. SAR Scan Procedures

Step 1: Power Reference Measurement

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

Step 2: Area Scan

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

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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°
	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}	when the x or y dimension of the test device, in the measurement plane orientation, is smaller than the a the measurement resolution must be \leq the correspond x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: Zoom Scan

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

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

			≤3 GHz	> 3 GHz
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}			\leq 2 GHz: \leq 8 mm 2 – 3 GHz: \leq 5 mm [*]	$3 - 4 \text{ GHz: } \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz: } \le 4 \text{ mm}^*$
	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
Maximum zoom scan spatial resolution, normal to phantom surface	graded	Δz _{Zoom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	$3 - 4 \text{ GHz: } \le 3 \text{ mm}$ $4 - 5 \text{ GHz: } \le 2.5 \text{ mm}$ $5 - 6 \text{ GHz: } \le 2 \text{ mm}$
	grid $\Delta z_{Zoom}(n>1)$: between subsequent points		$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume $x, y, z \ge 30 \text{ mm}$ $4-5 \text{ GHz}$:		$3 - 4 \text{ GHz:} \ge 28 \text{ mm}$ $4 - 5 \text{ GHz:} \ge 25 \text{ mm}$ $5 - 6 \text{ GHz:} \ge 22 \text{ mm}$		

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

Step 4: Power drift measurement

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

When zoom scan is required and the <u>reported</u> SAR from the <u>area scan based 1-g SAR estimation</u> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

4.3. Test Equipment

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

Dielectric Property Measurements

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Netw ork Analyzer	Keysight	E5063A	MY54100681	9/30/2023
Dielectric Probe	SPEAG	DAKS-3.5	1051	10/17/2023
Shorting Block	SPEAG	DAK-3.5 Short	SM DAK 200 DA	10/17/2023
Thermometer	Fisher Scientific	15-078-181	1817705017	3/30/2024

System Check

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Signal Generator	Keysight	N5181A	MY50140788	1/31/2024
Power Meter	Keysight	N1912A	MY55116004	9/02/2024
Power Sensor	Keysight	N1921A	MY55090047	2/02/2024
3-Path Diode Power Sensor	Rohde & Schwarz	NRP8S	112236	6/02/2024
3-Path Diode Power Sensor	Rohde & Schwarz	NRP8S	112237	6/02/2024
Amplifier	MITEQ	AMF-4D-00400600-50-30P	N/A	N/A
Directional coupler	Mini-Circuits	ZUDC10-183+	1438	N/A
DC Power Supply	Miteq	PS 15V1	1990186	N/A
RF Power Source	Speag	PowerSource1	4278	6/13/2024

Lab Equipment

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
E-Field Probe	SPEAG	EX3DV4	7709	12/12/2023
E-Field Probe	SPEAG	EX3DV4	7710	2/3/2024
E-Field Probe	SPEAG	EX3DV4	7711	3/29/2024
Data Acquisition Electronics	SPEAG	DAE4	1714	11/23/2023
Data Acquisition Electronics	SPEAG	DAE4	1715	1/23/2024
Data Acquisition Electronics	SPEAG	DAE4	1716	3/16/2024
System Validation Dipole	SPEAG	D750V3	1139	10/12/2023
System Validation Dipole	SPEAG	D1750V2	1136	10/17/2023
System Validation Dipole	SPEAG	D1900V2	5d202	10/12/2023
System Validation Dipole	SPEAG	D2450V2	963	10/18/2023
System Validation Dipole	SPEAG	D2600V2	1104	10/21/2023
System Validation Dipole	SPEAG	D5GHzV2	1213	10/11/2023
Environmental Indicator	Control Company	06-662-4	200037610	2/24/2024
Environmental Indicator	Control Company	06-662-4	200037635	2/24/2024

<u>Other</u>

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
3-Path Diode Power Sensor	Rohde & Schwarz	NRP8S	112236	6/2/2024
3-Path Diode Power Sensor	Rohde & Schwarz	NRP8S	112237	6/2/2024
RF Power Meter	Keysight	N1911a	MY55116002	9/10/2023
RF Power Meter	Keysight	N1912a	MY55116004	9/2/2023
RF Power Sensor	Keysight	N1921a	MY55090025	9/27/2023
Base Station Simulator	R&S	CMW 500	170733	12/14/2023
Base Station Simulator	R&S	CMW 500	170732	12/8/2023
Base Station Simulator	R&S	CMW 500	170193	1/6/2024
Base Station Simulator	R&S	CMW 500	170194	6/6/2024
Base Station Simulator	Anritsu	MT8821C	6262116751	6/5/2024
Base Station Simulator	Anritsu	MT8000A	6272354129	6/9/2024

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5. Measurement Uncertainty

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

Therefore, the measurement uncertainty is not required.

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6. Device Under Test (DUT) Information

6.1. DUT Description

Device Dimension		(display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm)
	Refer to Appendix A	
Back Cover	The Back Cover is not re	emovable
Battery Options	The rechargeable batter	y is not user accessible.
Accessory	Headset and wireless po	ower charger
Wireless Router (Hotspot)	Wi-Fi Hotspot mode perm ☑ Mobile Hotspot (Wi-Fi ☑ Mobile Hotspot (Wi-Fi	,
Wi-Fi Direct		ces transfer data directly between each other IT support only as a group client and not support as a group owner.
Bluetooth Tethering (Hotspot)	BT Tethering mode perm ⊠ BT Tethering (Bluetoo	its the device to share its cellular data connection with other devices. th 2.4 GHz)
	S/N	Notes
	QV7700EDHT	FCC SAR 2G/3G Rad #1
	QV770045HT	FCC SAR 2G/3G Rad #2
	QV77000EHT	FCC SAR 4G Rad #3
Test sample information	QV77006BHT	FCC SAR 4G Rad #4
	QV7700EHHT	FCC Cellular 2G-4G Conducted #1
	QV7700H2HT	FCC Cellular 2G-4G Conducted #2
	QV7700FEHT	FCC WLAN/BT - 2.4GHz/5GHz Conducted
	QV770078HT	FCC SAR WLAN/BT - 2.4GHz/5GHz
Hardware Version	А	
	2G-4G Conducted: 5.34	
Software Version	WLAN/BT Conducted: 2.	70
	SAR Measurements: 5.34	4

6.2. Wireless Technologies

Wireless technologies	Frequency bands	Oper	ating mode	Duty Cycle used for SAR testing	
GSM	850 1900	Voice (GMSK) GPRS (GMSK) EDGE (8PSK)	GSM Class : B Multi-Slot Class: Class 33 - 4 Up, 5 Down	GSM Voice: 12.5% (E)GPRS: 1 Slot: 12.5% 2 Slots: 25% 3 Slots: 37.5% 4 Slots: 50%	
	Does this device support DTM	I (Dual Transfer Mode)? ⊠ \	′es □ No		
W-CDMA (UMTS)	Band IV Band V	UMTS Rel. 99 (Voice & Da HSDPA (Rel. 5) HSUPA (Rel. 6)	ata)	100%	
LTE	FDD Band 4 FDD Band 5 FDD Band 12 FDD Band 13 FDD Band 17 TDD Band 41	QPSK 16QAM 64QAM Rel. 10 Carrier Aggregatio	n (1 Uplink and 2 Downlinks)	100% (FDD) 63.3% (TDD) Power Class 3	
	2.4 GHz	802.11b 802.11g 802.11n (HT20) 802.11ax (HE20)		99.9% _(802.11b) ¹ 99.1% _(802.11g/n 20MHz BW) ¹	
Wi-Fi	5 GHz Does this device support band	802.11a 802.11n (HT20) 802.11n (HT40) 802.11ac (VHT20) 802.11ac (VHT40) 802.11ac (VHT80) 802.11ac (VHT160) 802.11ax (HE20) 802.11ax (HE40) 802.11ax (HE80) 802.11ax (HE80) 802.11ax (HE160)	□ No	99.6% (802.11n/ac 40MHz BW) ¹ 99.0% (802.11ac 80MHz BW) ¹ 99.7% (802.11ac 160MHz BW) ¹	
	Does this device support Band				
Bluetooth	2.4 GHz	BR, EDR, LE		76.8% ¹	
NFC	13.56 MHz	Type A/B/F /V		N/A ²	

Notes

1. Duty cycle is referenced from the Section 9.

2. Measured Duty Cycle is not required due to SAR test exemption.

6.3. General LTE SAR Test and Reporting Considerations

Item	Description							
Frequency range, Channel Bandwidth,			Frequency	range: 1710 -	1755 MHz (BV	V = 45 MHz)		
Numbers and Frequencies	Band 4				Bandwidth	,		
		20 MHz ¹	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz	
	1	20050/	20025/	20000/	19975/	19965/	19957/	
	Low	1720	1717.5	1715	1712.5	1711.5	1710.7	
	Mid	20175/	20175/	20175/	20175/	20175/	20175/	
	IVIIG	1732.5	1732.5	1732.5	1732.5	1732.5	1732.5	
	High	20300/	20325/	20350/	20375/	20385/	20393/	
	9	1745	1747.5	1750	1752.5	1753.5	1754.3	
			Frequency	y range: 824 - 8		= 25 MHz)		
	Band 5				Bandwidth T	1		
		20 MHz	15 MHz	10 MHz ¹	5 MHz	3 MHz	1.4 MHz	
	Low			20450/	20425/	20415/	20407/	
				829	826.5	825.5	824.7	
	Mid			20525/	20525/	20525/	20525/	
				836.5	836.5	836.5	836.5	
	High			20600/ 844	20625/	20635/	20643/	
	_		Fraguena		846.5	847.5	848.3	
	Daniel 40		Frequency	/ range: 699 –		- 17 IVITZ)		
	Band 12	00 MH	45 MH		Bandwidth	0.841.1-	4 4 8411=	
		20 MHz	15 MHz	10 MHz ¹	5 MHz	3 MHz	1.4 MHz	
	Low			23060/	23035/	23025/	23017/	
				704	701.5	700.5	699.7	
	Mid			23095/ 707.5	23095/ 707.5	23095/ 707.5	23095/ 707.5	
				23130/	23155/	23165/	23173/	
	High			711	713.5	714.5	715.3	
			Frequency	y range: 777 - 1			7 10.0	
	Band 13				Bandwidth			
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz	
		20 111112	10 111112	10 1011 12	23205/	O IVII IZ	1.1101112	
	Low				779.5			
				23230/	23230/			
	Mid			782	782			
	Lliab				23255/			
	High				784.5			
			Frequency	y range: 704 - î	716 MHz (BW	= 12 MHz)		
	Band 17			Channel I	Bandwidth			
		20 MHz	15 MHz	10 MHz ¹	5 MHz	3 MHz	1.4 MHz	
	Low			23780/	23755/			
	LOW			709	706.5			
	Mid			23790/	23790/			
	IVIIG			710	710			
	High			23800/	23825/			
	19.1		_	711	713.5	1011111		
			Frequency r	ange: 2496 - 2		r = 194 MHz)		
	Band 41 ²				Bandwidth			
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz	
	Low	39750 / 2506.0						
	Mid- Low	ow 40185 / 2549.5						
	Mid							
	Mid Mid-High High		41055	/ 2636.5 / 2680.0				

	Modulation Channel bandwidth / Transmission bandwidth (N _{RB}) MPR (o										
	i incuation	1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz				
	QPSK	> 5	> 4	> 8	> 8 > 12	> 16	> 18	≤ 1			
	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1			
	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2			
	64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2			
	64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3			
	256 QAM				≥ 1			≤ 5			
	MPR Built-in by de The manufacturer not follow the defa A-MPR (additiona	MPR value ault MPR va	alues.	•		maximum N	MPR allowa	ance but ma			
Power reduction	No										
Spectrum plots for RB configurations	A properly configured base station simulator was used for the SAR and power measurements; therefore, spectrum plots for each RB allocation and offset configuration are not included in the SAR report.										

Notes:

- Maximum bandwidth does not support at least three non-overlapping channels in certain channel bandwidths. When a device supports
 overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be
 selected for testing per KDB 941225 D05 SAR for LTE Devices.
- 2. LTE band 41 test channels in accordance with October 2014 TCB workshop for all channels bandwidths.

6.4. LTE (TDD) Considerations

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

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

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

		ormal cyclic prefix in	downlink		tended cyclic prefix i	n downlink	
Special	DwPTS	Upf	PTS	DwPTS	Upl	PTS	
subframe configuration		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink	
0	$6592 \cdot T_{\rm s}$			$7680 \cdot T_{\rm s}$			
1	$19760 \cdot T_{\rm s}$			20480 · T _s	$(1+X)\cdot 2192\cdot T_s$	$(1+X)\cdot 2560\cdot T_s$	
2	$21952 \cdot T_{\rm s}$	$(1+X)\cdot 2192\cdot T_s$	$(1+X)\cdot 2560\cdot T_s$	$23040 \cdot T_{\rm s}$	$(1+\Lambda)^{\cdot}2192^{\cdot}I_{s}$	$(1+X)\cdot 2500\cdot T_{\rm s}$	
3	24144 · T _s			25600 · T _s			
4	26336·T _s			7680 · T _s			
5	6592 · T _s			20480 · T _s	$(2+X)\cdot 2192\cdot T_s$	(2 V) 2560 T	
6	19760 · T _s			23040 · T _s	$(2+\Lambda)\cdot 2192\cdot I_{\rm s}$	$(2+\Lambda) \cdot 2300 \cdot I_s$	
7	$21952 \cdot T_{\rm s}$	$(2+X)\cdot 2192\cdot T_s$	$(2+X)\cdot 2560\cdot T_s$	12800 · T _s			
8	24144 · T _s			-	-	-	
9	13168 · T _s			-	-	-	
10	13168 · T _s	$13152 \cdot T_{\rm s}$	$12800 \cdot T_{\rm s}$	-	-	-	

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

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

Calculated Duty Cycle = Extended cyclic prefix in uplink * (T_s) * # of S + # of U / period

Note(s)

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

6.5. Power Back-off Operation

The DUT supports power reduction when Simultaneous WLAN transmission is active (i.e. WLAN Chain 0 and Chain 1 transmitting simultaneously).

Power	Technologies		Exposure	Conditions	Active
Back-off mode	Supported	Head	Body-worn	Hotspot	Phablet SAR (Extremity 10g)
WLAN Simultaneous Tx	Wi-Fi 2.4GHz Wi-Fi 5GHz	✓	✓	√	√

Note(s):

Tune-Up Limits for WLAN (Simultaneous 2G 5G state) is Reduced Average Power. Please refer to §9 for all conducted power measurements.

Phablet SAR (Extremity 10g):

When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

When hotspot mode does not apply, 10-g Extremity SAR is required for all surfaces and edges with an antenna located at \leq 25 mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions.

7. RF Exposure Conditions (Test Configurations)

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

A	Band	Head	Rear	Front	Edge 1	Edge 2	Edge 3	Edge 4	Extremity
Antenna	Band	neau	Real	FIOIL	(Top Edge)	(Right Edge)	(Bottom Edge)	(Left Edge)	(0 mm)
CELL Main1	GSM 850 W-CDMA BV LTE B5/12/13	Yes	Yes	Yes	No	No	Yes	Yes	No
CELL Main2	GSM 1900 W-CDMA BII/IV LTE B4/41	Yes	Yes	Yes	No	Yes	Yes	No	No
Wi-Fi Main Antenna	Wi-Fi 2.4GHz Wi-Fi 5GHz Bluetooth	Yes	Yes	Yes	Yes	No	No	Yes	Yes
Wi-Fi Sub Antenna	Wi-Fi 2.4GHz Wi-Fi 5GHz Bluetooth	Yes	Yes	Yes	No	No	Yes	Yes	Yes

Notes

- 1. SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hot Spot SAR.
- 2. The Body-worn minimum separation distance is 10 mm. To cover both body-worn and hotspot RF exposure conditions testing was performed at a separation distance of 10 mm.
- 3. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg. When hotspot mode does not apply, 10-g Extremity SAR is required for all surfaces and edges with an antenna located at ≤ 25 mm from that surface or edge in direct contact with a flat phantom, to address interactive hand use exposure conditions.
- 4. Per KDB 447498 D01 v06, the NFC extremity SAR test exclusion threshold for below 100 MHz is 593 mW. Per the manufacturer, the maximum transmit power for the NFC radio is 403 mW, and therefore meet SAR test exclusion.

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8. Dielectric Property Measurements & System Check

8.1. Dielectric Property Measurements

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

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

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

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

Tissue Dielectric Parameters

FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

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

Dielectric Property Measurements Results:

SAR		Band	Tissue	Frequency	Relativ	e Permittivity	(er)	Co	nductivity (σ)	
Lab	Date	(MHz)	Туре	(MHz)	Measured	Target	Delta (%)	Measured	Target	Delta (%)
				750	41.2	42.0	-1.93	0.92	0.89	2.76
1A	7/10/2023	750	Head	660	41.4	42.4	-2.34	0.89	0.89	0.11
				845	40.9	41.5	-1.52	0.95	0.91	4.53
				1750	39.1	40.1	-2.46	1.38	1.37	0.51
1A	7/10/2023	1750	Head	1710	39.1	40.2	-2.53	1.35	1.35	0.34
				1755	39.1	40.1	-2.46	1.38	1.37	0.45
				2450	38.1	39.2	-2.91	1.81	1.80	0.44
2A	7/10/2023	2450	Head	2400	38.1	39.3	-2.94	1.77	1.75	0.76
				2480	38.0	39.2	-2.89	1.83	1.83	-0.24
				2600	37.8	39.0	-3.08	1.92	1.96	-2.10
2A	7/10/2023	2600	Head	2495	38.0	39.1	-2.97	1.84	1.85	-0.58
				2690	37.7	38.9	-3.18	1.99	2.06	-3.32
				750	40.6	42.0	-3.32	0.89	0.89	-0.23
2A	7/11/2023	750	Head	660	40.8	42.4	-3.73	0.86	0.89	-2.80
				850	40.3	41.5	-2.89	0.93	0.92	1.19
				1900	38.3	40.0	-4.32	1.43	1.40	2.00
2A	7/11/2023	1900	Head	1850	38.4	40.0	-4.08	1.40	1.40	-0.14
				1920	38.3	40.0	-4.35	1.44	1.40	2.93
				5600	34.1	35.5	-4.12	4.90	5.06	-3.17
2B	7/10/2023	5600	Head	5490	34.2	35.7	-4.04	4.79	4.95	-3.11
				5725	33.9	35.4	-4.27	5.03	5.19	-3.13
				5750	34.5	35.4	-2.35	5.13	5.21	-1.53
2B	7/24/2023	5750	Head	5700	34.6	35.4	-2.29	5.07	5.16	-1.83
				5850	34.4	35.3	-2.63	5.24	5.32	-1.48

8.2. System Check

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

System Performance Check Measurement Conditions:

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

System Check Results

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

SAR		Tissue		Dinala	Dinala Davisa	Me	easured Resul	ts for 1g SAR		Me	asured Result	ts for 10g SAR		Bl-4
Lab	Date	Type	Dipole Type_Serial #	Dipole Cal. Due Data	Dipole Power (dBm)	Zoom Scan	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	Zoom Scan	Normalize to 1 W	Target (Ref. Value)	Delta ±10 %	No.
1A	7/10/2023	Head	D750V3 SN: 1139	10/12/2023	17.00	0.430	8.58	8.51	0.82	0.281	5.61	5.58	0.48	1
1A	7/10/2023	Head	D1750V2 SN: 1136	10/17/2023	17.00	1.670	33.32	36.10	-7.70	0.885	17.66	19.10	-7.55	2
2A	7/10/2023	Head	D2450V2 SN: 963	10/18/2023	17.00	2.580	51.48	52.40	-1.76	1.210	24.14	24.50	-1.46	3
2A	7/10/2023	Head	D2600V2 SN: 1104	10/21/2023	17.00	2.800	55.87	56.70	-1.47	1.270	25.34	25.30	0.16	4
2A	7/11/2023	Head	D750V3 SN: 1139	10/12/2023	17.00	0.424	8.46	8.51	-0.59	0.280	5.59	5.58	0.12	5
2A	7/11/2023	Head	D1900V2 SN: 5d202	10/12/2023	17.00	2.070	41.30	39.20	5.36	1.080	21.55	20.40	5.63	6
2B	7/10/2023	Head	D5GHzV2 SN: 1213 (5.60 GHz)	10/11/2023	17.00	4.040	80.61	82.40	-2.17	1.100	21.95	23.50	-6.60	7
2B	7/24/2023	Head	D5GHzV2 SN: 1213 (5.75 GHz)	10/11/2023	17.00	3.860	77.02	78.80	-2.26	1.090	21.75	22.40	-2.91	8

9. Conducted Output Power Measurements

Tune-Up Power Limits provided by the manufacturer are used to scale measured SAR values.

9.1. **GSM**

Per KDB 941225 D01 3G SAR Procedures:

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

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

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

Per October 2013 TCB Workshop:

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

Maximum Output Power (Tune-up Limit) for GSM

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

		GSM Burst Power	Tune-up Limit (dBm)		S Burst Power .imit (dBm)	GSM DTM PS Tune-Up L	B Burst Power imit (dBm)
RF Air interface	Mode	CELL Main1	CELL Main2	CELL Main1	CELL Main2	CELL Main1	CELL Main2
		Normal	Normal	Normal	Normal	Normal	Normal
	Voice/GPRS (1 slot)	32.9		32.9			
	GPRS 2 slots	29.9		29.9		29.9	
	GPRS 3 slots	28.1		28.1		28.1	
GSM850	GPRS 4 slots	26.9					
GSIVIOOU	EGPRS 1 slot	28.0		32.9			
	EGPRS 2 slot	25.0		29.9		25.0	
	EGPRS 3 slot	23.2		28.1		23.2	
	EGPRS 4 slots	22.0					
	Voice/GPRS (1 slot)		28.0		28.0		
	GPRS 2 slots		25.0		25.0		25.0
	GPRS 3 slots		23.2		23.2		23.2
GSM1900	GPRS 4 slots		22.0				
GSW 1900	EGPRS 1 slot		27.0		28.0		
	EGPRS 2 slot		24.0		25.0		24.0
	EGPRS 3 slot		22.2		23.2		22.2
	EGPRS 4 slots		21.0				

GSM850 Measured Results (Leveraged from FCC ID: PY7-76732V)

		_		_	No	Normal Average Power (dBm)					
Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Meas	sured	Tune-u	ıp Limit			
	Concine	01013		(1411 12)	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr			
			128	824.2	31.6	22.6					
		1	190	836.6	31.8	22.8	32.9	23.9			
			251	848.8	31.9	22.8					
			128	824.2	28.5	22.5					
		2	190	836.6	28.6	22.5	29.9	23.9			
GPRS/EDGE	CS1		251	848.8	28.6	22.6					
(GMSK)	CS1		128	824.2	26.1	21.9					
		4	190	836.6	26.2	21.9	28.1	23.8			
			251	848.8	27.0	22.7					
			128	824.2	25.6	22.6					
			190	836.6	25.7	22.7	26.9	23.9			
			251	848.8	25.7	22.6					
			128	824.2	26.6	17.6					
		1	190	836.6	26.8	17.8	28.0	19.0			
			251	848.8	26.8	17.7					
			128	824.2	23.8	17.7					
		2	190	836.6	23.8	17.8	25.0	19.0			
EDGE	MCS5		251	848.8	23.9	17.9					
(8PSK)	MCSS		128	824.2	21.9	17.7					
		3	190	836.6	21.9	17.7	23.2	18.9			
			251	848.8	22.0	17.7					
			128	824.2	20.8	17.8					
		4	190	836.6	20.7	17.7	22.0	19.0			
			251	848.8	20.7	17.7					

GSM1900 Measured Results (Leveraged from FCC ID: PY7-76732V)

	O a diaman	T		F	No	rmal Averag	e Power (dB	m)	
Mode	Coding Scheme	Time Slots	Ch No.	Freq. (MHz)	Meas	sured	Tune-u	ıp Limit	
	Conomo	Cioto		(1411 12)	Burst Pwr	Frame Pwr	Burst Pwr	Frame Pwr	
			512	1850.2	27.1	18.1			
		1	661	1880.0	27.1	18.1	28.0	19.0	
			810	1909.8	27.1	18.1			
			512	1850.2	24.1	18.1			
		2	661	1880.0	23.8	17.8	25.0	19.0	
GPRS/EDGE	CS1		810	1909.8	23.8	17.8			
(GMSK)	(GMSK)		512	1850.2	22.0	17.7			
		3	661	1880.0	21.7	17.5	23.2	18.9	
			810	1909.8	21.7	17.4			
			512	1850.2	20.8	17.8			
		4	661	1880.0	20.8	17.8	22.0	19.0	
			810	1909.8	21.1	18.0			
			512	1850.2	25.7	16.7			
		1	661	1880.0	26.1	17.1	27.0	18.0	
			810	1909.8	26.0	16.9			
			512	1850.2	22.7	16.7			
		2	661	1880.0	22.9	16.9	24.0	18.0	
EDGE	MCS5		810	1909.8	22.9	16.9			
(8PSK)	IVICSS		512	1850.2	21.0	16.7			
		3	661	1880.0	21.3	17.0	22.2	17.9	
			810	1909.8	21.3	17.0			
			512	1850.2	19.8	16.7			
		4	661	1880.0	19.7	16.7	21.0	18.0	
			810	1909.8	19.8	16.8			

GSM850 DTM Measured Results (Leveraged from FCC ID: PY7-76732V)

							No	rmal Averag	e Power (dB	m)		
Mode	Coding	Time	Ch No.	Freq.		Mea	sured			Tune-ι	ıp Limit	
	Scheme	Slots	Oii 10	(MHz)	CS Burst Pwr	PS Burst Pwr	CS Frame Pwr	PS Frame Pwr	CS Burst Pwr	PS Burst Pwr	CS Frame Pwr	PS Frame Pwr
			128	824.2	31.4		22.3					
		1	190	836.6	31.5		22.5		32.9		23.9	
			251	848.8	31.6		22.6					
0004			128	824.2	28.5	28.6	22.5	22.6				
GSM + GPRS/EDGE (GMSK)	CS1	CS1 2	190	836.6	28.6	29.2	22.6	23.2	29.9	29.9	23.9	23.9
(Voice) (Civicity			251	848.8	28.5	28.6	22.5	22.6				
			128	824.2	26.5	26.5	22.2	22.3				
			190	836.6	26.8	26.8	22.6	22.5	28.1	28.1	23.8	23.8
			251	848.8	26.7	26.8	22.4	22.6				
			128	824.2	31.4		22.3					
		1	190	836.6	31.5		22.5		32.9		23.9	
			251	848.8	31.6		22.6					
5005			128	824.2	28.5	23.7	22.5	17.7				
GSM + EDGE (Voice) + (8PSK)	MCS5	2	190	836.6	28.6	23.7	22.6	17.7	29.9	25.0	23.9	19.0
(Voice) (8PSK)			251	848.8	28.5	23.7	22.5	17.7				
			128	824.2	26.5	22.0	22.2	17.7				
		3	190	836.6	26.8	21.8	22.6	17.6	28.1 23.2	23.2	23.8	18.9
			251	848.8	26.7	21.8	22.4	17.6				

GSM1900 DTM Measured Results (Leveraged from FCC ID: PY7-76732V)

							No	rmal Averag	e Power (dB	m)		
Mode	Coding	Time	Ch No.	Freq.		Mea	sured			Tune-ι	ıp Limit	
	Scheme	Slots	Oii Tu	(MHz)	CS Burst Pwr	PS Burst Pwr	CS Frame Pwr	PS Frame Pwr	CS Burst Pwr	PS Burst Pwr	CS Frame Pwr	PS Frame Pwr
			512	1850.2	27.0		18.0					
		1	661	1880.0	27.1		18.1		28.0		19.0	
i			810	1909.8	27.2		18.1					
0014 0000/5005			512	1850.2	23.4	24.2	17.4	18.2				
GSM + GPRS/EDGE (Voice) + (GMSK)	CS1	2	661	1880.0	23.5	23.9	17.4	17.9	25.0	25.0	19.0	19.0
(Voide) (dimert)			810	1909.8	23.5	23.9	17.5	17.8				
			512	1850.2	21.4	22.0	17.1	17.7				
		3	661	1880.0	21.3	21.8	17.1	17.6	23.2	23.2	18.9	18.9
			810	1909.8	21.4	21.7	17.1	17.5				
			512	1850.2	27.0		18.0					
		1	661	1880.0	27.1		18.1		28.0		19.0	
			810	1909.8	27.2		18.1					
			512	1850.2	23.4	22.8	17.4	16.8				
GSM EDGE (Voice) + (8PSK)	MCS5	2	661	1880.0	23.5	23.0	17.4	17.0	25.0	24.0	19.0	18.0
(Voice) (8PSK)			810	1909.8	23.5	23.0	17.5	17.0				
			512	1850.2	21.4	21.0	17.1	16.8				
		3	661	1880.0	21.3	21.1	17.1	16.9	23.2 22.2	22.2	18.9	17.9
			810	1909.8	21.4	21.4	17.1	17.1				

9.2. W-CDMA

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

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

Release 99 Setup Procedures used to establish the test signals

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

Mode	Subtest	Rel99
	Loopback Mode	Test Mode 2
MCDMA Conoral Sottings	Rel99 RMC	12.2kbps RMC
WCDMA General Settings	Power Control Algorithm	Algorithm2
	βc/βd	8/15

HSDPA Setup Procedures used to establish the test signals

The following 4 Sub-tests were completed according to procedures in table C.10.1.4 of 3GPP TS 34.121-1 A summary of these settings is illustrated below:

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	βο	βd	βd (SF)	βс/βа	βнs (Note1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15	15/15	64	12/15	24/15	1.0	0.0
	(Note 4)	(Note 4)		(Note 4)			
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: \triangle_{ACK} , \triangle_{NACK} and $\triangle_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and Δ_{NACK} = 30/15 with β_{lx} = 30/15 * β_c , and Δ_{CQI} = 24/15 with

 $\beta_{hs} = 24/15 * \beta_c$

Note 3: CM = 1 for $\beta_{\text{o}}/\beta_{\text{d}}$ =12/15, $\beta_{\text{hs}}/\beta_{\text{c}}$ =24/15. For all other combinations of DPDCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 11/15 and β_d = 15/15

HSUPA Setup Procedures used to establish the test signals

The following 5 Sub-tests were completed according to procedures in table C.11.1.3 of 3GPP TS 34.121-1. A summary of these settings is illustrated below:

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub- test	βο	βa	β _d (SF)	βε/βα	βнs (Note1)	βес	βed (Note 4) (Note 5)	β _{ed} (SF)	β _{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2) (Note 6)	AG Index (Note 5)	E- TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/2 25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β _{ed} 1: 47/15 β _{ed} 2: 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15	0	-	-	5/15	5/15	47/15	4	1	1.0	0.0	12	67

Note 1: For sub-test 1 to 4, Δ_{ACK} , Δ_{NACK} and Δ_{CQI} = 30/15 with β_{hs} = 30/15 * β_c . For sub-test 5, Δ_{ACK} , Δ_{NACK} and Δ_{CQI} = 5/15 with β_{hs} = 5/15 * β_c .

Note 2: CM = 1 for β_c/β_d =12/15, β_{ns}/β_c =24/15. For all other combinations of DPDCH, DPCCH, HS- DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to β_c = 10/15 and β_d = 15/15.

Note 4: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25,306 Table 5.1g.

Note 5: Bed can not be set directly: it is set by Absolute Grant Value.

Note 6: For subtests 2, 3 and 4, UE may perform E-DPDCH power scaling at max power which could results in slightly smaller MPR values.

DC-HSDPA Setup Procedures used to establish the test signals

The following 4 Sub-tests for DC-HSDPA were completed according to procedures in table C08.1.12 of 3GPP TS 34.121-1. A summary of subtest settings is illustrated below:

Table C.8.1.12: Fixed Reference Channel H-Set 12

	Parameter	Unit	Value					
Nominal	Avg. Inf. Bit Rate	kbps	60					
Inter-TTI	Distance	TTI's	1					
Number	of HARQ Processes	Proces	6					
		ses	0					
Informati	on Bit Payload (N_{INF})	Bits	120					
Number	Code Blocks	Blocks	1					
Binary C	hannel Bits Per TTI	Bits	960					
Total Ava	ailable SML's in UE	SML's	19200					
Number	of SML's per HARQ Proc.	SML's	3200					
Coding F	Rate		0.15					
Number	of Physical Channel Codes	Codes	1					
Modulati	on		QPSK					
Note 1:	The RMC is intended to be used for	or DC-HSD	PA					
	mode and both cells shall transmit	with identi	ical					
parameters as listed in the table.								
Note 2: Maximum number of transmission is limited to 1, i.e.,								
retransmission is not allowed. The redundancy and								
	constellation version 0 shall be used.							

HSPA+ Setup Procedures used to establish the test signals

The following 1 Sub-test was completed according to procedures in table C.11.1.4 of 3GPP TS34.121. A summary of these settings is illustrated below:

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub- test	β _c (Note3)	βa	βнs (Note1)	βес	β _{ed} (2xSF2) (Note 4)	β _{ed} (2xSF4) (Note 4)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	β _{ed} 1: 30/15 β _{ed} 2: 30/15	β _{ed} 3: 24/15 β _{ed} 4: 24/15	3.5	2.5	14	105	105
Note 1 Note 2 Note 3 Note 4 Note 5	: CM = : DPD : β _{ed} c: : All th	= 3.5 a CH is an no e sub CH ca	and the MF not config t be set dir -tests requ ategory 7.	PR is base lured, the rectly; it is uire the U E-DCH T	with β_{hs} = 30/15 ed on the relative refore the β_c is s is set by Absolute E to transmit 2S TI is set to 2ms allocated. The U	e CM difference et to 1 and β_d = Grant Value. F2+2SF4 16QA TTI and E-DCH	0 by defau M EDCH a table index	nd they a	ipply for l support th	nese E-Ď(

Maximum Output Power (Tune-up Limit) for W-CDMA

SAR measurement is not required for the HSDPA, HSUPA. When primary mode and the adjusted SAR is ≤ 1.2 W/kg and secondary mode is ≤ ¼ dB higher than the primary mode

		Tune-up Pow	erLimit (dBm)
RF Air interface	Mode	CELL Main1	CELL Main2
		Normal	Normal
	R99		19.7
W-CDMA	HSDPA		19.0
Band 2	HSUPA		19.0
	DC-HSDPA		19.0
	R99		18.7
W-CDMA	HSDPA		18.0
Band 4	HSUPA		18.0
	DC-HSDPA		18.0
	R99	22.7	
W-CDMA	HSDPA	22.0	
Band 5	HSUPA	22.0	
	DC-HSDPA	22.0	

Doc. No.: 1.0

W-CDMA Band II Measured Results (Leveraged from FCC ID: PY7-76732V)

			Freq.	Normal Ave	rage Po	wer (dBm)
Mo	ode	UL Ch No.	(MHz)	Measured Pwr	MPR	Tune-up Limit
	Rel 99	9262	1852.4	19.0		
Release 99	(RMC, 12.2	9400	1880.0	18.9	N/A	19.7
	kbps)	9538	1907.6	19.0	1	
		9262	1852.4	18.0		
	Subtest 1	9400	1880.0	17.9	0	19.0
		9538	1907.6	17.9		
		9262	1852.4	17.9		
	Subtest 2	9400	1880.0	17.9	0	19.0
LICDDA		9538	1907.6	17.9	1	
HSDPA		9262	1852.4	17.4		
	Subtest 3	9400	1880.0	17.4	0.5	18.5
		9538	1907.6	17.4		
		9262	1852.4	17.4		
	Subtest 4	9400	1880.0	17.4	0.5	18.5
		9538	1907.6	17.4	1	
		9262	1852.4	18.0		
	Subtest 1	9400	1880.0	18.0	0	19.0
		9538	1907.6	17.9		
	Subtest 2	9262	1852.4	16.0		
		9400	1880.0	16.1	2	17.0
		9538	1907.6	15.9		
		9262	1852.4	17.0		
HSUPA	Subtest 3	9400	1880.0	17.0	1	18.0
		9538	1907.6	16.9		
		9262	1852.4	16.0		
	Subtest 4	9400	1880.0	16.0	2	17.0
		9538	1907.6	15.9		
		9262	1852.4	18.1		
	Subtest 5	9400	1880.0	18.1	0	19.0
		9538	1907.6	18.0		
		9262	1852.4	17.9		
	Subtest 1	9400	1880.0	18.0	0	19.0
		9538	1907.6	17.9		
		9262	1852.4	18.0		
	Subtest 2	9400	1880.0	18.0	0	19.0
DC HEDDY		9538	1907.6	17.9		
DC-HSDPA		9262	1852.4	17.5		
	Subtest 3	9400	1880.0	17.5	0.5	18.5
		9538	1907.6	17.4		10.0
		9262	1852.4	17.5		
	Subtest 4	9400	1880.0	17.5	0.5	18.5
		9538	1907.6	17.4		

W-CDMA Band IV Measured Results (Leveraged from FCC ID: PY7-76732V)

			Freq.	Normal Ave	rage Po	wer (dBm)
Mo	ode	UL Ch No.	(MHz)	Measured Pwr	MPR	Tune-up Limit
	Rel 99	1312	1712.4	17.9		
Release 99	(RMC, 12.2	1413	1732.6	18.0	N/A	18.7
	kbps)	1513	1752.6	18.0	1	
		1312	1712.4	16.9		
	Subtest 1	1413	1732.6	17.0	0	18.0
		1513	1752.6	17.0		
		1312	1712.4	16.8		
	Subtest 2	1413	1732.6	17.0	0	18.0
HSDPA		1513	1752.6	17.0		
TISDEA		1312	1712.4	16.4		
	Subtest 3	1413	1732.6	16.5	0.5	17.5
		1513	1752.6	16.5		
		1312	1712.4	16.4		
	Subtest 4	1413	1732.6	16.6	0.5	17.5
		1513	1752.6	16.5		
		1312	1712.4	16.9		
	Subtest 1	1413	1732.6	17.1	0	18.0
		1513	1752.6	17.0		
	Subtest 2	1312	1712.4	14.9		
		1413	1732.6	15.1	2	16.0
		1513	1752.6	15.0		
		1312	1712.4	15.9		
HSUPA	Subtest 3	1413	1732.6	16.1	1	17.0
		1513	1752.6	16.0		
		1312	1712.4	14.9		
	Subtest 4	1413	1732.6	15.1	2	16.0
		1513	1752.6	15.0		
		1312	1712.4	16.9		
	Subtest 5	1413	1732.6	17.1	0	18.0
		1513	1752.6	17.0		
		1312	1712.4	16.9		
	Subtest 1	1413	1732.6	17.0	0	18.0
		1513	1752.6	17.0		
		1312	1712.4	16.9		
	Subtest 2	1413	1732.6	17.0	0	18.0
DC-HSDPA		1513	1752.6	17.0		
20-1 10D1 A		1312	1712.4	16.4		
	Subtest 3	1413	1732.6	16.5	0.5	17.5
		1513	1752.6	16.4		
		1312	1712.4	16.4		
	Subtest 4	1413	1732.6	16.5	0.5	17.5
		1513	1752.6	16.5		

W-CDMA Band V Measured Results (Leveraged from FCC ID: PY7-76732V)

Mode		2	Freq.	Normal Ave	rage Po	wer (dBm)
Mo	ode	UL Ch No.	(MHz)	Measured Pwr	MPR	Tune-up Limit
	Rel 99	4132	826.4	21.9		
Release 99	(RMC, 12.2	4183	836.6	21.9	N/A	22.7
	kbps)	4233	846.6	21.8	1	
		4132	826.4	20.9		
	Subtest 1	4183	836.6	20.9	0	22.0
		4233	846.6	20.8		
		4132	826.4	20.9		
	Subtest 2	4183	836.6	20.9	0	22.0
LICDDA		4233	846.6	20.8	1	
HSDPA		4132	826.4	20.4		
	Subtest 3	4183	836.6	20.4	0.5	21.5
		4233	846.6	20.3		
		4132	826.4	20.4		
	Subtest 4	4183	836.6	20.4	0.5	21.5
		4233	846.6	20.3		
		4132	826.4	21.0		
	Subtest 1	4183	836.6	21.0	0	22.0
		4233	846.6	20.9		
		4132	826.4	19.0		
	Subtest 2	4183	836.6	18.9	2	20.0
		4233	846.6	18.9	1	
		4132	826.4	19.9		
HSUPA	Subtest 3	4183	836.6	19.9	1	21.0
		4233	846.6	19.9		
		4132	826.4	19.0		
	Subtest 4	4183	836.6	19.0	2	20.0
		4233	846.6	18.9		
		4132	826.4	21.0		
	Subtest 5	4183	836.6	21.0	0	22.0
		4233	846.6	20.9		
		4132	826.4	20.9		
	Subtest 1	4183	836.6	20.9	0	22.0
		4233	846.6	20.8		
		4132	826.4	20.9		
	Subtest 2	4183	836.6	20.9	0	22.0
DC-HSDPA		4233	846.6	20.8		
DO-HODEA		4132	826.4	20.4		
	Subtest 3	4183	836.6	20.4	0.5	21.5
		4233	846.6	20.3		
		4132	826.4	20.4		
	Subtest 4	4183	836.6	20.4	0.5	21.5
		4233	846.6	20.3		

9.3. LTE

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

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

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

Modulation	Cha	MPR (dB)					
	1.4	3.0	5	10	15	20	
	MHz	MHz	MHz	MHz	MHz	MHz	
QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1
16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1
16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2
64 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 2
64 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 3
256 QAM				≥ 1			≤ 5

The allowed A-MPR values specified below in Table 6.2.4.-1 of 3GPP TS36.101 are in addition to the allowed MPR requirements. All the measurements below were performed with A-MPR disabled, by using Network Signaling Value of "NS_01".

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

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

Maximum Output Power (Tune-up Limit) for LTE

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

- a) The maximum output power, including tolerance, for the smaller band must be ≤ the larger band to qualify for the SAR test exclusion.
- b) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.
 - LTE Band 17 (704-716 MHz) is covered by LTE Band 12 (699-716 MHz)

For some LTE Bands, certain channel bandwidths do not support at least three non-overlapping channels. When a device supports overlapping channel assignments in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing per KDB 941225 D05 SAR for LTE Devices. Please refer to section 6.3. for a detailed list of LTE test channels

- LTE Band 5 (824-849 MHz)
- LTE Band 12 (699-716 MHz)

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

SAR measurement is not required for the 16QAM and 64QAM. When the highest maximum output power for 16QAM and 64QAM is $\leq \frac{1}{2}$ dB higher than the QPSK or when the reported SAR for the QPSK configuration is \leq 1.45 W/kg.

		Tune-up PowerLimit (dBm)			
RF Air interface	Mode	CELL Main1	CELL Main2		
		Normal	Normal		
LTE Band 4	QPSK		19.0		
LTE Band 5	QPSK	22.0			
LTE Band 12	QPSK	22.0			
LTE Band 13	QPSK	22.0			
LTE Band 17	QPSK	22.0			
LTE Band 41	QPSK		20.0		

LTE Band 4 CELL Main2 Measured Results

					Normal Aver	age Power (dBn	າ)		
BW (MH+)	Mode	RB Allocation	RB offeet	20050	20175	20300		Tune-up	
(MHz)		Allocation	offset	1720 MHz	1732.5 MHz	1745 MHz	MPR	Limit	
		1	0	17.4	17.5	17.4	0	19	
		1	49	17.3	17.4	17.3	0	19	
		1	99	17.4	17.3	17.2	0	19	
	QPSK	50	0	17.4	17.4	17.4	0	19	
		50	24	17.4	17.4	17.4	0	19	
		50	50	17.4	17.4	17.3	0	19	
	16QAM	100	0	17.4	17.4	17.3	0	19	
		1	0	17.6	17.6	17.5	0	19	
		1	49	17.8	17.7	17.3	0	19	
		1	99	17.5	17.4	17.2	0	19	
20 MHz		50	0	17.3	17.4	17.2	0	19	
		50	24	17.4	17.4	17.2	0	19	
		50	50	17.5	17.3	17.1	0	19	
		100	0	17.4	17.4	17.2	0	19	
		1	0	17.6	17.5	17.7	0	19	
		1	49	17.7	17.7	17.6	0	19	
		1	99	17.6	17.5	17.5	0	19	
	64QAM	50	0	17.4	17.4	17.3	0	19	
		50	24	17.5	17.3	17.3	0	19	
		50	50	17.5	17.3	17.2	0	19	
		100	0	17.5	17.3	17.4	0	19	
			DD	Normal Average Power (dBm)					
RW	I Mode	RR	RR				1)		
BW (MHz)	Mode	RB Allocation	RB offset	20025	20175	20325	MPR	Tune-up	
	Mode	Allocation	offset	1717.5 MHz	20175 1732.5 MHz	20325 1747.5 MHz	MPR	Limit	
	Mode	Allocation 1	offset 0	1717.5 MHz 17.5	20175 1732.5 MHz 17.3	20325 1747.5 MHz 17.2	MPR 0	Limit 19	
	Mode	Allocation 1 1	offset 0 37	1717.5 MHz 17.5 17.5	20175 1732.5 MHz 17.3 17.4	20325 1747.5 MHz 17.2 17.1	0 0	19 19	
		Allocation 1 1 1	0 37 74	1717.5 MHz 17.5 17.5 17.5	20175 1732.5 MHz 17.3 17.4 17.4	20325 1747.5 MHz 17.2 17.1 17.2	0 0 0	19 19 19	
	Mode QPSK	Allocation 1 1 1 1 36	0 37 74 0	1717.5 MHz 17.5 17.5 17.5 17.6	20175 1732.5 MHz 17.3 17.4 17.4 17.4	20325 1747.5 MHz 17.2 17.1 17.2 17.3	0 0 0 0	19 19 19 19	
		1 1 1 36 36 36	0 37 74 0 20	1717.5 MHz 17.5 17.5 17.5 17.6 17.6	20175 1732.5 MHz 17.3 17.4 17.4 17.4 17.4	20325 1747.5 MHz 17.2 17.1 17.2 17.3 17.2	0 0 0 0 0	19 19 19 19 19	
		1 1 1 36 36 36 36	0 37 74 0 20 39	1717.5 MHz 17.5 17.5 17.5 17.6 17.5 17.5	20175 1732.5 MHz 17.3 17.4 17.4 17.4 17.4 17.3	20325 1747.5 MHz 17.2 17.1 17.2 17.3 17.2 17.2	0 0 0 0 0 0	19 19 19 19 19 19 19 19	
		1 1 1 36 36 36 75	0 37 74 0 20 39 0	1717.5 MHz 17.5 17.5 17.5 17.6 17.5 17.5 17.5	20175 1732.5 MHz 17.3 17.4 17.4 17.4 17.4 17.3 17.3	20325 1747.5 MHz 17.2 17.1 17.2 17.3 17.2 17.2 17.2	0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19	
		1 1 1 36 36 36 75 1	0 37 74 0 20 39 0	1717.5 MHz 17.5 17.5 17.6 17.5 17.5 17.5 17.5 17.5 17.5	20175 1732.5 MHz 17.3 17.4 17.4 17.4 17.4 17.3 17.3	20325 1747.5 MHz 17.2 17.1 17.2 17.3 17.2 17.2 17.2 17.2	0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19	
		1 1 1 36 36 36 75 1 1	0 37 74 0 20 39 0 37	1717.5 MHz 17.5 17.5 17.6 17.5 17.5 17.5 17.5 17.5 17.5	20175 1732.5 MHz 17.3 17.4 17.4 17.4 17.4 17.3 17.3 17.5	20325 1747.5 MHz 17.2 17.1 17.2 17.3 17.2 17.2 17.2 17.2 17.3 17.3	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19	
(MHz)	QPSK	1 1 36 36 36 75 1 1 1 1	0 37 74 0 20 39 0 0 37 74	1717.5 MHz 17.5 17.5 17.6 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	20175 1732.5 MHz 17.3 17.4 17.4 17.4 17.4 17.3 17.3 17.5 17.5	20325 1747.5 MHz 17.2 17.1 17.2 17.3 17.2 17.2 17.2 17.2 17.3 17.3 17.3	0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19	
		Allocation 1 1 1 36 36 36 75 1 1 1 36	0 37 74 0 20 39 0 37 74 0	1717.5 MHz 17.5 17.5 17.6 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	20175 1732.5 MHz 17.3 17.4 17.4 17.4 17.4 17.3 17.3 17.5 17.5 17.4	20325 1747.5 MHz 17.2 17.1 17.2 17.3 17.2 17.2 17.2 17.3 17.3 17.3 17.3 17.3	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1	
(MHz)	QPSK	1 1 36 36 36 36 36 36 36 36 36 36 36 36 36	0 37 74 0 20 39 0 0 37 74 0 20 20 20 20	1717.5 MHz 17.5 17.5 17.6 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	20175 1732.5 MHz 17.3 17.4 17.4 17.4 17.3 17.3 17.5 17.5 17.4 17.4 17.4	20325 1747.5 MHz 17.2 17.1 17.2 17.3 17.2 17.2 17.2 17.3 17.3 17.3 17.3 17.3 17.3	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Limit 19 19 19 19 19 19 19 19 19 1	
(MHz)	QPSK	Allocation 1 1 1 36 36 36 75 1 1 1 36 36 36 36 36	0 37 74 0 20 39 0 0 37 74 0 20 39 37 74 0 20 39	1717.5 MHz 17.5 17.5 17.6 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.4 17.4	20175 1732.5 MHz 17.3 17.4 17.4 17.4 17.4 17.3 17.5 17.5 17.4 17.4 17.4 17.2	20325 1747.5 MHz 17.2 17.1 17.2 17.3 17.2 17.2 17.3 17.2 17.3 17.3 17.3 17.3 17.3 17.3 17.3	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Limit 19 19 19 19 19 19 19 19 19 1	
(MHz)	QPSK	Allocation 1 1 1 36 36 36 75 1 1 1 36 36 36 36 75	0 37 74 0 20 39 0 37 74 0 20 39 0 37 74 0 20 39 0	1717.5 MHz 17.5 17.5 17.6 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	20175 1732.5 MHz 17.3 17.4 17.4 17.4 17.4 17.3 17.5 17.5 17.4 17.4 17.3 17.2 17.2	20325 1747.5 MHz 17.2 17.1 17.2 17.3 17.2 17.2 17.2 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.3	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1	
(MHz)	QPSK	Allocation 1 1 1 36 36 75 1 1 1 36 36 36 75 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 37 74 0 20 39 0 37 74 0 20 39 0 37 74 0 20 39 0 0 0	1717.5 MHz 17.5 17.5 17.5 17.6 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.4 17.4 17.4 17.4 17.6	20175 1732.5 MHz 17.3 17.4 17.4 17.4 17.3 17.5 17.5 17.4 17.4 17.3 17.6 17.6	20325 1747.5 MHz 17.2 17.1 17.2 17.3 17.2 17.2 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.5 17.5	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Limit 19 19 19 19 19 19 19 19 19 1	
(MHz)	QPSK	Allocation 1 1 1 36 36 36 75 1 1 36 36 36 75 1 1 1 36 36 36 75 1 1	0 37 74 0 20 39 0 0 37 74 0 0 39 0 0 37 74 0 0 20 39 0 37	1717.5 MHz 17.5 17.5 17.5 17.6 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.4 17.4 17.4 17.4 17.6 17.7	20175 1732.5 MHz 17.3 17.4 17.4 17.4 17.3 17.5 17.5 17.4 17.4 17.3 17.6 17.6	20325 1747.5 MHz 17.2 17.1 17.2 17.3 17.2 17.2 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.5 17.5	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1	
(MHz)	QPSK	Allocation 1 1 1 36 36 36 75 1 1 36 36 36 75 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 37 74 0 20 39 0 0 37 74 0 0 20 39 0 0 37 74 0 20 39 0 74	1717.5 MHz 17.5 17.5 17.6 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.4 17.4 17.4 17.4 17.6 17.7	20175 1732.5 MHz 17.3 17.4 17.4 17.4 17.4 17.3 17.5 17.5 17.4 17.4 17.2 17.6 17.6	20325 1747.5 MHz 17.2 17.1 17.2 17.3 17.2 17.2 17.3 17.2 17.3 17.3 17.3 17.3 17.3 17.5 17.5 17.5	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Limit 19 19 19 19 19 19 19 19 19 1	
(MHz)	QPSK	Allocation 1 1 1 36 36 36 75 1 1 1 36 36 36 75 1 1 36 36 36 75 1 1 1 36	0 37 74 0 20 39 0 37 74 0 20 39 0 37 74 0 20 39 0 0 37 74 0 0	1717.5 MHz 17.5 17.5 17.5 17.6 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.4 17.4 17.4 17.4 17.6 17.7 17.7	20175 1732.5 MHz 17.3 17.4 17.4 17.4 17.4 17.3 17.5 17.5 17.4 17.4 17.2 17.6 17.6 17.6 17.6 17.7	20325 1747.5 MHz 17.2 17.1 17.2 17.3 17.2 17.2 17.2 17.3 17.3 17.3 17.3 17.3 17.3 17.5 17.5 17.5 17.5	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Limit 19 19 19 19 19 19 19 19 19 1	
(MHz)	QPSK	Allocation 1 1 1 36 36 36 75 1 1 1 36 36 36 75 1 1 36 36 36 75 36 36 75 36 36	0 37 74 0 20 39 0 0 37 74 0 20 37 74 0 20 20 20	1717.5 MHz 17.5 17.5 17.5 17.6 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.4 17.4 17.4 17.4 17.7 17.7 17.7	20175 1732.5 MHz 17.3 17.4 17.4 17.4 17.4 17.3 17.5 17.5 17.4 17.3 17.2 17.6 17.6 17.6 17.6 17.3 17.3	20325 1747.5 MHz 17.2 17.1 17.2 17.3 17.2 17.2 17.3 17.3 17.3 17.3 17.3 17.3 17.5 17.5 17.5 17.5 17.5	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Limit 19 19 19 19 19 19 19 19 19 1	
(MHz)	QPSK	Allocation 1 1 1 36 36 36 75 1 1 1 36 36 36 75 1 1 36 36 36 75 1 1 1 36	0 37 74 0 20 39 0 37 74 0 20 39 0 37 74 0 20 39 0 0 37 74 0 0	1717.5 MHz 17.5 17.5 17.5 17.6 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.4 17.4 17.4 17.4 17.6 17.7 17.7	20175 1732.5 MHz 17.3 17.4 17.4 17.4 17.4 17.3 17.5 17.5 17.4 17.4 17.2 17.6 17.6 17.6 17.6 17.7	20325 1747.5 MHz 17.2 17.1 17.2 17.3 17.2 17.2 17.2 17.3 17.3 17.3 17.3 17.3 17.3 17.5 17.5 17.5 17.5	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Limit 19 19 19 19 19 19 19 19 19 1	

LTE Band 4 CELL Main2 Measured Results (continued)

					Normal Aver	age Power (dBm	1)	
BW (MHz)	Mode	RB Allocation	RB offset	20000	20175	20350		Tune-up
(MHz)		Allocation	Oliset	1715 MHz	1732.5 MHz	1750 MHz	MPR	Limit
		1	0	17.6	17.5	17.5	0	19
		1	25	17.6	17.6	17.5	0	19
		1	49	17.6	17.4	17.4	0	19
	QPSK	25	0	17.7	17.6	17.5	0	19
		25	12	17.7	17.6	17.5	0	19
		25	25	17.7	17.6	17.5	0	19
		50	0	17.7	17.6	17.5	0	19
		1	0	17.9	17.7	17.6	0	19
		1	25	17.8	17.7	17.7	0	19
		1	49	17.8	17.6	17.6	0	19
10 MHz	16QAM	25	0	17.7	17.5	17.6	0	19
		25	12	17.7	17.5	17.6	0	19
		25	25	17.7	17.4	17.5	0	19
		50	0	17.7	17.5	17.5	0	19
		1	0	17.9	17.7	17.7	0	19
		1	25	17.9	17.8	17.7	0	19
		1	49	17.9	17.5	17.7	0	19
	64QAM	25	0	17.7	17.4	17.6	0	19
		25	12	17.7	17.6	17.6	0	19
		25	25	17.6	17.5	17.5	0	19
		50	0	17.7	17.5	17.6	0	19
	55							
RW.	Mode	RR	RR			age Power (dBm	1)	
BW (MHz)	Mode	RB Allocation	RB offset	19975	20175	20375	MPR	
	Mode	Allocation	offset	1712.5 MHz	20175 1732.5 MHz	20375 1752.5 MHz	MPR	Limit
	Mode	Allocation 1	offset 0	1712.5 MHz 17.6	20175 1732.5 MHz 17.6	20375 1752.5 MHz 17.4	MPR 0	Limit 19
	Mode	Allocation 1 1	offset 0 12	1712.5 MHz 17.6 17.8	20175 1732.5 MHz 17.6 17.7	20375 1752.5 MHz 17.4 17.5	0 0	19 19
		Allocation 1 1 1	0 12 24	1712.5 MHz 17.6 17.8 17.7	20175 1732.5 MHz 17.6 17.7 17.6	20375 1752.5 MHz 17.4 17.5 17.4	0 0 0	19 19 19
	Mode QPSK	Allocation 1 1 1 1 12	0 12 24 0	1712.5 MHz 17.6 17.8 17.7 17.7	20175 1732.5 MHz 17.6 17.7 17.6 17.6	20375 1752.5 MHz 17.4 17.5 17.4 17.4	0 0 0 0	19 19 19 19
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 12 24 0 7	1712.5 MHz 17.6 17.8 17.7 17.7	20175 1732.5 MHz 17.6 17.7 17.6 17.6 17.6	20375 1752.5 MHz 17.4 17.5 17.4 17.4 17.5	0 0 0 0 0	19 19 19 19 19
		1 1 1 12 12 12 12	0 12 24 0 7 13	1712.5 MHz 17.6 17.8 17.7 17.7 17.8 17.7	20175 1732.5 MHz 17.6 17.7 17.6 17.6 17.6 17.6	20375 1752.5 MHz 17.4 17.5 17.4 17.4 17.5 17.5	0 0 0 0 0 0	19 19 19 19 19 19
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 12 24 0 7 13	1712.5 MHz 17.6 17.8 17.7 17.7 17.8 17.7 17.7	20175 1732.5 MHz 17.6 17.7 17.6 17.6 17.6 17.7	20375 1752.5 MHz 17.4 17.5 17.4 17.4 17.5 17.5 17.5	0 0 0 0 0 0 0	19 19 19 19 19 19 19 19
		1 1 1 12 12 12 25 1	0 12 24 0 7 13 0	1712.5 MHz 17.6 17.8 17.7 17.7 17.8 17.7 17.8 17.7 17.8	20175 1732.5 MHz 17.6 17.7 17.6 17.6 17.6 17.7 17.6 17.7	20375 1752.5 MHz 17.4 17.5 17.4 17.5 17.5 17.5 17.5 17.5	0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19
		1 1 1 12 12 12 25 1 1 1	0 12 24 0 7 13 0 0 12	1712.5 MHz 17.6 17.8 17.7 17.7 17.8 17.7 17.7 17.8 17.7 17.8 17.9	20175 1732.5 MHz 17.6 17.7 17.6 17.6 17.6 17.7 17.6 17.7 17.6	20375 1752.5 MHz 17.4 17.5 17.4 17.4 17.5 17.5 17.5 17.6	0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19
(MHz)	QPSK	1 1 1 12 12 12 25 1 1 1 1	0 12 24 0 7 13 0 0 12 24 24 24 24 24	1712.5 MHz 17.6 17.8 17.7 17.7 17.8 17.7 17.7 17.8 17.7 17.8 17.8	20175 1732.5 MHz 17.6 17.7 17.6 17.6 17.6 17.7 17.6 17.8 17.9	20375 1752.5 MHz 17.4 17.5 17.4 17.5 17.5 17.5 17.5 17.6 17.6	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19
		1 1 1 12 12 25 1 1 1 1 1 1 1 1 1 1 1 1 1	0 12 24 0 7 13 0 0 12 24 0 0	1712.5 MHz 17.6 17.8 17.7 17.7 17.8 17.7 17.8 17.7 17.8 17.7 17.8 17.9 17.8 17.6	20175 1732.5 MHz 17.6 17.7 17.6 17.6 17.6 17.7 17.6 17.8 17.9 17.8 17.6	20375 1752.5 MHz 17.4 17.5 17.4 17.5 17.5 17.5 17.6 17.6 17.6 17.3	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19
(MHz)	QPSK	1 1 1 12 12 25 1 1 1 1 12 12 12 12 12 12 12 12 12 12 1	0 12 24 0 7 13 0 0 12 24 7 7 7	1712.5 MHz 17.6 17.8 17.7 17.7 17.8 17.7 17.7 17.8 17.7 17.8 17.9 17.8 17.6 17.7	20175 1732.5 MHz 17.6 17.7 17.6 17.6 17.6 17.7 17.6 17.8 17.9 17.8 17.9	20375 1752.5 MHz 17.4 17.5 17.4 17.5 17.5 17.5 17.6 17.6 17.3 17.3	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1
(MHz)	QPSK	Allocation 1 1 1 12 12 12 25 1 1 1 12 12 12 12 12 12 12 12	0 12 24 0 7 13 0 0 12 24 0 7 13 13 12 12 13	1712.5 MHz 17.6 17.8 17.7 17.7 17.8 17.7 17.8 17.9 17.8 17.6 17.7	20175 1732.5 MHz 17.6 17.7 17.6 17.6 17.6 17.7 17.6 17.8 17.9 17.8 17.6 17.7	20375 1752.5 MHz 17.4 17.5 17.4 17.5 17.5 17.5 17.6 17.6 17.6 17.3 17.3	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1
(MHz)	QPSK	Allocation 1 1 1 12 12 12 25 1 1 1 12 25 12 25 25 25 25 25 25 25 25 25 25 25 26 27 28 28 28 28 28 28 28 28 28 28 28 28 28	0 12 24 0 7 13 0 0 12 24 0 7 13 0 12 24 0 7 13 0	1712.5 MHz 17.6 17.8 17.7 17.7 17.8 17.7 17.8 17.9 17.8 17.6 17.7 17.6 17.7	20175 1732.5 MHz 17.6 17.7 17.6 17.6 17.6 17.7 17.6 17.8 17.9 17.8 17.6 17.7 17.6 17.7 17.6	20375 1752.5 MHz 17.4 17.5 17.4 17.5 17.5 17.6 17.6 17.3 17.3 17.3 17.4	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1
(MHz)	QPSK	Allocation 1 1 1 12 12 12 25 1 1 1 12 12 25 1 1 1 1	0 12 24 0 7 13 0 0 12 24 0 7 13 0 0 12 24 0 7 13 0 0 0	1712.5 MHz 17.6 17.8 17.7 17.7 17.8 17.7 17.8 17.7 17.8 17.9 17.8 17.6 17.7 17.6 17.7	20175 1732.5 MHz 17.6 17.7 17.6 17.6 17.6 17.7 17.6 17.8 17.9 17.8 17.6 17.7 17.6 17.7 17.6 17.7	20375 1752.5 MHz 17.4 17.5 17.4 17.5 17.5 17.6 17.6 17.3 17.3 17.3 17.4 17.6	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1
(MHz)	QPSK	Allocation 1 1 1 12 12 12 25 1 1 1 12 12 25 1 1 1 1	0 12 24 0 7 13 0 0 12 24 0 7 13 0 0 12 24 0 7 13 0 12	1712.5 MHz 17.6 17.8 17.7 17.7 17.8 17.7 17.7 17.8 17.9 17.8 17.6 17.7 17.6 17.7 17.9 18.0	20175 1732.5 MHz 17.6 17.7 17.6 17.6 17.7 17.6 17.8 17.9 17.8 17.6 17.7 17.6 17.7 17.6 17.7 17.7 17.6 18.0 17.9	20375 1752.5 MHz 17.4 17.5 17.4 17.5 17.6 17.6 17.3 17.3 17.3 17.4 17.6 17.7	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1
(MHz)	QPSK	Allocation 1 1 1 12 12 12 12 25 1 1 12 12 12 12 12 11 11 11 11 11 11 11	0 12 24 0 7 13 0 0 12 24 0 0 7 13 2 24 24 2 24 2 24 2 24 2 24 2 24 2 2	1712.5 MHz 17.6 17.8 17.7 17.7 17.8 17.7 17.8 17.9 17.6 17.7 17.6 17.7 17.9 18.0 17.9	20175 1732.5 MHz 17.6 17.7 17.6 17.6 17.6 17.7 17.6 17.8 17.9 17.8 17.7 17.6 17.7 17.6 17.7 17.7 17.6 18.0 17.9	20375 1752.5 MHz 17.4 17.5 17.4 17.5 17.5 17.5 17.6 17.6 17.3 17.3 17.3 17.4 17.6 17.6 17.7	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1
(MHz)	QPSK	Allocation 1 1 1 12 12 12 12 25 1 1 1 12 12 12 12 12 12 12 12 12 12 12	0 12 24 0 7 13 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 1 12 24 0 1 12 24 0 0 1 12 24 0 1 12 24 0 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24	1712.5 MHz 17.6 17.8 17.7 17.7 17.8 17.7 17.8 17.9 17.8 17.6 17.7 17.6 17.7 17.9 18.0 17.9 17.9	20175 1732.5 MHz 17.6 17.7 17.6 17.6 17.6 17.6 17.7 17.6 17.8 17.9 17.8 17.6 17.7 17.6 17.7 17.7 17.7 17.7 17.7	20375 1752.5 MHz 17.4 17.5 17.4 17.5 17.6 17.6 17.6 17.3 17.3 17.3 17.4 17.6 17.6 17.7 17.6 17.7	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1
(MHz)	QPSK	Allocation 1 1 1 12 12 12 25 1 1 1 12 12 12 12 12 12 12 12 12 12 12	0 12 24 0 7 13 0 0 12 24 0 7 13 0 12 24 0 7 13 0 7	1712.5 MHz 17.6 17.8 17.7 17.7 17.8 17.7 17.8 17.7 17.8 17.9 17.8 17.6 17.7 17.6 17.7 17.9 18.0 17.9 17.8	20175 1732.5 MHz 17.6 17.7 17.6 17.6 17.6 17.7 17.6 17.8 17.9 17.8 17.7 17.6 18.0 17.9 17.9 17.7 17.7 17.7	20375 1752.5 MHz 17.4 17.5 17.4 17.5 17.4 17.5 17.5 17.6 17.6 17.3 17.3 17.3 17.6 17.6 17.6 17.7 17.6 17.7	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1
(MHz)	QPSK	Allocation 1 1 1 12 12 12 12 25 1 1 1 12 12 12 12 12 12 12 12 12 12 12	0 12 24 0 7 13 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 1 12 24 0 1 12 24 0 0 1 12 24 0 1 12 24 0 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24	1712.5 MHz 17.6 17.8 17.7 17.7 17.8 17.7 17.8 17.9 17.8 17.6 17.7 17.6 17.7 17.9 18.0 17.9 17.9	20175 1732.5 MHz 17.6 17.7 17.6 17.6 17.6 17.6 17.7 17.6 17.8 17.9 17.8 17.6 17.7 17.6 17.7 17.7 17.7 17.7 17.7	20375 1752.5 MHz 17.4 17.5 17.4 17.5 17.6 17.6 17.6 17.3 17.3 17.3 17.4 17.6 17.6 17.7 17.6 17.7	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1

LTE Band 4 CELL Main2 Measured Results (continued)

					Normal Aver	age Power (dBm	1)	
BW	Mode	RB	RB	19965	20175	20385		Tune-up
(MHz)		Allocation	offset	1711.5 MHz	1732.5 MHz	1753.5 MHz	MPR	Limit
		1	0	17.4	17.6	17.4	0	19
		1	8	17.5	17.7	17.5	0	19
		1	14	17.4	17.6	17.4	0	19
	QPSK	8	0	17.4	17.6	17.5	0	19
		8	4	17.4	17.7	17.5	0	19
		8	7	17.4	17.7	17.5	0	19
		15	0	17.4	17.6	17.4	0	19
		1	0	17.5	17.7	17.6	0	19
		1	8	17.6	17.8	17.6	0	19
		1	14	17.6	17.7	17.5	0	19
3 MHz	16QAM	8	0	17.5	17.6	17.5	0	19
		8	4	17.8	17.7	17.5	0	19
		8	7	17.8	17.7	17.5	0	19
		15	0	17.7	17.6	17.4	0	19
		1	0	18.0	17.9	17.7	0	19
		1	8	18.0	18.0	17.8	0	19
		1	14	17.9	17.9	17.7	0	19
	64QAM	8	0	17.8	17.6	17.4	0	19
		8	4	17.8	17.7	17.5	0	19
		8	7	17.8	17.7	17.5	0	19
		15	0	17.7	17.6	17.5	0	19
					Normal Aver	age Power (dBm	1)	
	DW.	RB	RB effect				•	
I Made			19957	20175	20393		Tune-up	
BW (MHz)	Mode	RB Allocation	RB offset	19957 1710.7 MHz			MPR	Tune-up Limit
	Mode				20175	20393		
	Mode	Allocation	offset	1710.7 MHz	20175 1732.5 MHz	20393 1754.3 MHz	MPR	Limit
	Mode	Allocation 1	offset 0	1710.7 MHz 17.3	20175 1732.5 MHz 17.5	20393 1754.3 MHz 17.3	MPR 0	Limit 19
	Mode QPSK	Allocation 1 1	offset 0 3	1710.7 MHz 17.3 17.5	20175 1732.5 MHz 17.5 17.5	20393 1754.3 MHz 17.3 17.3	0 0	Limit 19 19
		Allocation 1 1 1	offset 0 3 5	1710.7 MHz 17.3 17.5 17.5	20175 1732.5 MHz 17.5 17.5 17.5	20393 1754.3 MHz 17.3 17.3 17.3	0 0 0	19 19 19
		Allocation 1 1 1 3	0 3 5 0	1710.7 MHz 17.3 17.5 17.5 17.5	20175 1732.5 MHz 17.5 17.5 17.5 17.5	20393 1754.3 MHz 17.3 17.3 17.3 17.3	MPR 0 0 0 0 0 0 0	19 19 19 19
		Allocation 1 1 1 3 3	0 3 5 0	1710.7 MHz 17.3 17.5 17.5 17.5 17.5	20175 1732.5 MHz 17.5 17.5 17.5 17.5 17.5	20393 1754.3 MHz 17.3 17.3 17.3 17.3 17.3	0 0 0 0 0	19 19 19 19 19
		Allocation 1 1 1 3 3 3	0 3 5 0 1 3 3	1710.7 MHz 17.3 17.5 17.5 17.5 17.5 17.5	20175 1732.5 MHz 17.5 17.5 17.5 17.5 17.5 17.5	20393 1754.3 MHz 17.3 17.3 17.3 17.3 17.3	0 0 0 0 0 0	19 19 19 19 19 19 19
		1 1 1 3 3 3 3 6	0 3 5 0 1 3 0	1710.7 MHz 17.3 17.5 17.5 17.5 17.5 17.5 17.5	20175 1732.5 MHz 17.5 17.5 17.5 17.5 17.5 17.5 17.5	20393 1754.3 MHz 17.3 17.3 17.3 17.3 17.3 17.3 17.3	0 0 0 0 0 0 0	19 19 19 19 19 19 19 19
		1 1 1 3 3 3 6 1 1	0 3 5 0 1 3 0 0 0	1710.7 MHz 17.3 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	20175 1732.5 MHz 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	20393 1754.3 MHz 17.3 17.3 17.3 17.3 17.3 17.3 17.3 17.2	0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19
		Allocation 1 1 1 3 3 3 6 1 1 1 3	0 3 5 0 1 3 0 0 3 3	1710.7 MHz 17.3 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.6	20175 1732.5 MHz 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	20393 1754.3 MHz 17.3 17.3 17.3 17.3 17.3 17.3 17.2 17.4	0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19
(MHz)	QPSK	1 1 3 3 3 6 1 1 1 1	0 3 5 0 1 3 0 0 3 5 5	1710.7 MHz 17.3 17.5 17.5 17.5 17.5 17.5 17.5 17.6 17.6	20175 1732.5 MHz 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	20393 1754.3 MHz 17.3 17.3 17.3 17.3 17.3 17.3 17.2 17.4 17.5 17.5	0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 3	0 3 5 0 0 3 5 0 0 0 3 5 0 0 0 0 0 0 0 0	1710.7 MHz 17.3 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.6 17.6 17.4	20175 1732.5 MHz 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.6 17.7 17.6 17.7	20393 1754.3 MHz 17.3 17.3 17.3 17.3 17.3 17.3 17.2 17.4 17.5 17.5 17.3	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19
(MHz)	QPSK	Allocation 1 1 1 3 3 6 1 1 1 3 3 3	0 3 5 0 1 3 5 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1710.7 MHz 17.3 17.5 17.5 17.5 17.5 17.5 17.5 17.6 17.6 17.6 17.4	20175 1732.5 MHz 17.5 17.5 17.5 17.5 17.5 17.5 17.6 17.7 17.6 17.7 17.6 17.5	20393 1754.3 MHz 17.3 17.3 17.3 17.3 17.3 17.3 17.4 17.5 17.5 17.4 17.5	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 3 3 3 3	0 3 5 0 0 3 5 0 1 1 3 3 0 1 1 3 3 1 1 3 1 1 1 1 1 1 1	1710.7 MHz 17.3 17.5 17.5 17.5 17.5 17.5 17.5 17.6 17.6 17.4 17.4 17.5	20175 1732.5 MHz 17.5 17.5 17.5 17.5 17.5 17.5 17.6 17.7 17.6 17.5 17.5 17.5 17.5	20393 1754.3 MHz 17.3 17.3 17.3 17.3 17.3 17.3 17.2 17.4 17.5 17.5 17.3 17.4 17.3	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Limit 19 19 19 19 19 19 19 19 19 1
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 3 3 6 6	0 3 5 0 0 3 5 0 1 3 3 0 0 0 1 3 0 0 0 0 0 0 0 0 0 0 0	1710.7 MHz 17.3 17.5 17.5 17.5 17.5 17.5 17.5 17.6 17.6 17.4 17.4 17.4 17.4	20175 1732.5 MHz 17.5 17.5 17.5 17.5 17.5 17.6 17.7 17.6 17.7 17.6 17.5 17.5 17.5 17.5 17.6 17.7	20393 1754.3 MHz 17.3 17.3 17.3 17.3 17.3 17.3 17.2 17.4 17.5 17.5 17.3 17.4 17.3 17.4	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1
(MHz)	QPSK	Allocation 1 1 1 3 3 6 1 1 1 3 3 6 1 1 1 1 1 1 1	0 3 5 0 0 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1710.7 MHz 17.3 17.5 17.5 17.5 17.5 17.5 17.5 17.6 17.6 17.4 17.4 17.5 17.4 17.7	20175 1732.5 MHz 17.5 17.5 17.5 17.5 17.5 17.5 17.6 17.7 17.6 17.5 17.5 17.5 17.6 17.7 17.6 17.7 17.6 17.7 17.6 17.7	20393 1754.3 MHz 17.3 17.3 17.3 17.3 17.3 17.3 17.2 17.4 17.5 17.5 17.3 17.4 17.3 17.4 17.3 17.4 17.3	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 3 3 6 1 1 1 1 1 1	0 3 5 0 1 3 0 0 3 5 0 1 3 0 0 3 5 0 1 3 0 3 5 0 1 3 0 3	1710.7 MHz 17.3 17.5 17.5 17.5 17.5 17.5 17.5 17.6 17.6 17.4 17.4 17.5 17.7 17.9	20175 1732.5 MHz 17.5 17.5 17.5 17.5 17.5 17.5 17.6 17.7 17.6 17.5 17.5 17.6 17.7 17.6 17.7 17.6 17.7 17.6 17.7 17.6 17.7 17.6 17.7	20393 1754.3 MHz 17.3 17.3 17.3 17.3 17.3 17.3 17.5 17.5 17.5 17.3 17.4 17.3 17.2 17.4 17.7 17.4 17.7 17.7	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 3 3 1 1 1 1 1 1 1	0 0 3 5 0 0 1 3 0 0 0 3 5 5 0 0 3 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 5 5 0 5	1710.7 MHz 17.3 17.5 17.5 17.5 17.5 17.5 17.5 17.6 17.6 17.4 17.4 17.7 17.9 17.7	20175 1732.5 MHz 17.5 17.5 17.5 17.5 17.5 17.5 17.6 17.7 17.6 17.7 17.6 17.5 17.5 17.6 17.7 17.6 17.7 17.6 17.7 17.6 17.7 17.6 17.7 17.6 17.7	20393 1754.3 MHz 17.3 17.3 17.3 17.3 17.3 17.3 17.4 17.5 17.5 17.3 17.4 17.3 17.2 17.4 17.3 17.4 17.3 17.2 17.4 17.3	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 1 1 3 3 3 6 1 1 1 1	0	1710.7 MHz 17.3 17.5 17.5 17.5 17.5 17.5 17.5 17.6 17.6 17.4 17.4 17.7 17.9 17.7	20175 1732.5 MHz 17.5 17.5 17.5 17.5 17.5 17.5 17.6 17.7 17.6 17.7 17.6 17.5 17.5 17.6 17.7 17.6 17.7 17.6 17.7 17.6 17.7 17.6 17.7 17.6 17.7 17.6 17.7 17.6 17.7 17.6 17.6	20393 1754.3 MHz 17.3 17.3 17.3 17.3 17.3 17.3 17.2 17.4 17.5 17.3 17.4 17.3 17.2 17.4 17.3 17.2 17.4 17.3 17.2 17.4 17.3 17.2	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	19 19 19 19 19 19 19 19 19 19 19 19 19 1

LTE Band 5 CELL Main1 Measured Results (Leveraged from FCC ID: PY7-76732V)

					Normal Aver	age Power (dBm	1)	
BW	Mode	RB	RB	20450	20525	20600		Tune-up
(MHz)		Allocation	offset	829 MHz	836.5 MHz	844 MHz	MPR	Limit
		1	0	20.8	20.8	20.9	0	22
		1	25	20.8	20.9	20.9	0	22
		1	49	20.8	20.9	20.8	0	22
	QPSK	25	0	20.7	20.9	20.8	0	22
		25	12	20.8	20.9	20.8	0	22
		25	25	20.8	20.9	20.9	0	22
		50	0	20.8	20.8	20.8	0	22
		1	0	21.0	21.0	21.1	0	22
		1	25	20.9	21.1	21.0	0	22
		1	49	21.0	21.1	21.0	0	22
10 MHz	16QAM	25	0	20.8	20.9	20.9	0	22
		25	12	20.9	20.9	20.9	0	22
		25	25	20.8	20.9	20.9	0	22
		50	0	20.8	20.9	20.9	0	22
		1	0	21.1	21.1	21.2	0	22
		1	25	21.1	21.2	21.2	0	22
		1	49	21.2	21.1	21.1	0	22
	64QAM	25	0	20.4	20.5	20.6	0	22
		25	12	20.5	20.5	20.6	0	22
		25	25	20.4	20.6	20.6	0	22
		50	0	20.4	20.5	20.6	0	22
RW.		RR	RR		Normal Aver	age Power (dBm	1)	
BW (MHz)	Mode	RB Allocation	RB offset	20425	20525	20625		Tune-up
	Mode	Allocation	offset	826.5 MHz	20525 836.5 MHz	20625 846.5 MHz	MPR	Limit
	Mode	Allocation 1	offset 0	826.5 MHz 20.7	20525 836.5 MHz 20.8	20625 846.5 MHz 20.8	MPR 0	Limit 22
	Mode	Allocation 1 1	offset 0 12	826.5 MHz 20.7 20.8	20525 836.5 MHz 20.8 21.0	20625 846.5 MHz 20.8 21.0	MPR 0 0	Limit 22 22
		Allocation 1 1 1	0 12 24	826.5 MHz 20.7 20.8 20.7	20525 836.5 MHz 20.8 21.0 20.9	20625 846.5 MHz 20.8 21.0 20.8	0 0 0	22 22 22 22
	Mode QPSK	Allocation 1 1 1 1 12	0 12 24 0	826.5 MHz 20.7 20.8 20.7 20.8	20525 836.5 MHz 20.8 21.0 20.9 20.8	20625 846.5 MHz 20.8 21.0 20.8 20.8	MPR 0 0 0 0 0 0	22 22 22 22 22
		1 1 1 12 12 12	0 12 24 0 7	826.5 MHz 20.7 20.8 20.7 20.8 20.8	20525 836.5 MHz 20.8 21.0 20.9 20.8 20.9	20625 846.5 MHz 20.8 21.0 20.8 20.8 20.8	0 0 0 0 0	22 22 22 22 22 22
		1 1 1 12 12 12 12	0 12 24 0 7 13	20.7 20.8 20.7 20.8 20.7 20.8 20.8	20525 836.5 MHz 20.8 21.0 20.9 20.8 20.9 20.9	20625 846.5 MHz 20.8 21.0 20.8 20.8 20.8 20.9	0 0 0 0 0 0	22 22 22 22 22 22 22 22
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 12 24 0 7 13	20.7 20.8 20.7 20.8 20.8 20.8 20.8 20.8	20525 836.5 MHz 20.8 21.0 20.9 20.8 20.9 20.9 20.9	20625 846.5 MHz 20.8 21.0 20.8 20.8 20.8 20.9 20.8	0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22
		1 1 1 12 12 12 25 1	0 12 24 0 7 13 0	826.5 MHz 20.7 20.8 20.7 20.8 20.8 20.8 20.8 20.8 20.8 20.8	20525 836.5 MHz 20.8 21.0 20.9 20.8 20.9 20.9 20.9 20.9 21.0	20625 846.5 MHz 20.8 21.0 20.8 20.8 20.8 20.8 20.9 20.8 21.0	0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22
		1 1 1 12 12 12 25 1 1 1	0 12 24 0 7 13 0 12	20.7 20.8 20.7 20.8 20.7 20.8 20.8 20.8 20.8 20.9 21.0	20525 836.5 MHz 20.8 21.0 20.9 20.8 20.9 20.9 20.9 21.0 21.2	20625 846.5 MHz 20.8 21.0 20.8 20.8 20.8 20.8 20.9 20.8 21.0 21.2	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	1 1 1 12 12 12 25 1 1 1 1	0 12 24 0 7 13 0 0 12 24 24 24	826.5 MHz 20.7 20.8 20.7 20.8 20.8 20.8 20.8 20.8 20.9 21.0 20.9	20525 836.5 MHz 20.8 21.0 20.9 20.8 20.9 20.9 20.9 21.0 21.1	20625 846.5 MHz 20.8 21.0 20.8 20.8 20.8 20.9 20.8 21.0 21.2 21.1	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
		1 1 1 12 12 25 1 1 1 1 1 1 1 1 1 1 1 1 1	0 12 24 0 7 13 0 0 12 24 0 0	826.5 MHz 20.7 20.8 20.7 20.8 20.8 20.8 20.8 20.8 20.9 21.0 20.9 20.8	20525 836.5 MHz 20.8 21.0 20.9 20.8 20.9 20.9 20.9 21.0 21.2 21.1 20.9	20625 846.5 MHz 20.8 21.0 20.8 20.8 20.8 20.9 20.8 21.0 21.2 21.1 20.7	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 12 12 12 12 25 1 1 1 1 12 12	0 12 24 0 7 13 0 0 12 24 0 7	826.5 MHz 20.7 20.8 20.7 20.8 20.8 20.8 20.8 20.8 20.9 21.0 20.9 20.8 20.8	20525 836.5 MHz 20.8 21.0 20.9 20.8 20.9 20.9 21.0 21.2 21.1 20.9 21.0	20625 846.5 MHz 20.8 21.0 20.8 20.8 20.8 20.9 20.8 21.0 21.2 21.1 20.7 20.8	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 12 12 12 25 1 1 1 12 12 12 12 12 12 12	0 12 24 0 7 13 0 0 12 24 0 7 13 13 12 24 0 7 13	826.5 MHz 20.7 20.8 20.7 20.8 20.8 20.8 20.8 20.9 21.0 20.9 20.8 20.8 20.9	20525 836.5 MHz 20.8 21.0 20.9 20.8 20.9 20.9 20.9 21.0 21.2 21.1 20.9 21.0 21.2	20625 846.5 MHz 20.8 21.0 20.8 20.8 20.8 20.9 20.8 21.0 21.2 21.1 20.7 20.8 20.8	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 12 12 12 12 25 1 1 1 1 12 25 25 25 25 25 25 26 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	0 12 24 0 7 13 0 0 12 24 0 7 13 0 12 24 0 7 13 0 0	826.5 MHz 20.7 20.8 20.7 20.8 20.8 20.8 20.8 20.9 21.0 20.9 20.8 20.8 20.8 20.8 20.8	20525 836.5 MHz 20.8 21.0 20.9 20.8 20.9 20.9 20.9 21.0 21.0 21.2 21.1 20.9 21.0 21.0 21.0 21.0	20625 846.5 MHz 20.8 21.0 20.8 20.8 20.8 20.9 20.8 21.0 21.2 21.1 20.7 20.8 20.8 20.8	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 12 12 12 25 1 1 1 12 12 25 1 1 1 1	0 12 24 0 7 13 0 0 12 24 0 7 13 0 0 12 24 0 7 13 0 0 0	826.5 MHz 20.7 20.8 20.7 20.8 20.8 20.8 20.8 20.8 20.9 21.0 20.9 20.8 20.8 20.8 20.8 20.9	20525 836.5 MHz 20.8 21.0 20.9 20.9 20.9 20.9 21.0 21.2 21.1 20.9 21.0 21.2 21.1 20.9 21.0 21.2	20625 846.5 MHz 20.8 21.0 20.8 20.8 20.8 20.9 20.8 21.0 21.2 21.1 20.7 20.8 20.8 20.8 21.1	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 12 12 12 25 1 1 1 12 12 25 1 1 1 1	0 12 24 0 7 13 0 0 12 24 0 7 13 0 0 12 24 0 7 13 0 12	826.5 MHz 20.7 20.8 20.7 20.8 20.8 20.8 20.8 20.8 20.9 21.0 20.9 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8	20525 836.5 MHz 20.8 21.0 20.9 20.8 20.9 20.9 20.9 21.0 21.2 21.1 20.9 21.0 21.0 21.2 21.1 20.9 21.0 21.0 21.0 21.0	20625 846.5 MHz 20.8 21.0 20.8 20.8 20.8 20.9 20.8 21.0 21.2 21.1 20.7 20.8 20.8 20.8 20.8 21.1 21.2	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 12 12 12 12 25 1 1 12 12 12 12 12 11 11 11 11 11 11 11	0 12 24 0 7 13 0 0 12 24 0 0 7 13 2 24 24 2 24 2 24 2 24 2 24 2 24 2 2	826.5 MHz 20.7 20.8 20.7 20.8 20.8 20.8 20.8 20.9 21.0 20.9 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.9	20525 836.5 MHz 20.8 21.0 20.9 20.8 20.9 20.9 20.9 21.0 21.1 20.9 21.1 20.9 21.0 21.2 21.1 20.9 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	20625 846.5 MHz 20.8 21.0 20.8 20.8 20.8 20.9 20.8 21.0 21.2 21.1 20.7 20.8 20.8 20.8 21.0 21.2 21.1 20.7 20.8 20.8 21.0 21.2 21.1	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 12 12 12 12 25 1 1 1 12 12 12 12 12 12 12 12 12 12 12	0 12 24 0 7 13 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 1 12 24 0 1 12 24 0 0 1 12 24 0 1 12 24 0 1 12 24 0 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24	826.5 MHz 20.7 20.8 20.7 20.8 20.8 20.8 20.8 20.9 21.0 20.9 20.8 20.8 20.8 20.8 20.9 21.0 20.9 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.9 21.0	20525 836.5 MHz 20.8 21.0 20.9 20.8 20.9 20.9 20.9 21.0 21.2 21.1 20.9 21.0 21.2 21.1 20.9 21.0 21.0 21.0 21.0 20.9	20625 846.5 MHz 20.8 21.0 20.8 20.8 20.8 20.8 20.9 20.8 21.0 21.2 21.1 20.7 20.8 20.8 20.8 21.0 21.2 21.1 20.7 20.8 20.8 20.8 20.8 21.1 21.2 21.2 20.5	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 12 12 12 12 25 1 1 1 12 12 12 12 12 12 12 12 12 12 12	0 12 24 0 7 13 0 0 12 24 0 7 12 24 0 7 7 13 7 7 13 7 7 13 7 7 15 7 7 7 15 7 7 7 7 7 7 7 7 7 7 7 7	826.5 MHz 20.7 20.8 20.7 20.8 20.8 20.8 20.8 20.8 20.9 21.0 20.9 20.8 20.8 20.8 20.8 20.8 20.9 21.0 20.9 20.8 20.8 20.8 20.8 20.8 20.9 21.0 20.9	20525 836.5 MHz 20.8 21.0 20.9 20.9 20.9 20.9 21.0 21.2 21.1 20.9 21.0 21.2 21.1 20.9 21.0 21.0 20.9 21.0 20.9 21.0 20.9	20625 846.5 MHz 20.8 21.0 20.8 20.8 20.8 20.8 20.9 20.8 21.0 21.2 21.1 20.7 20.8 20.8 20.8 21.1 21.2 21.1 21.2 21.2 20.5 20.5	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 12 12 12 12 25 1 1 1 12 12 12 12 12 12 12 12 12 12 12	0 12 24 0 7 13 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 0 1 12 24 0 1 12 24 0 1 12 24 0 0 1 12 24 0 1 12 24 0 1 12 24 0 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24 0 1 12 24	826.5 MHz 20.7 20.8 20.7 20.8 20.8 20.8 20.8 20.9 21.0 20.9 20.8 20.8 20.8 20.8 20.9 21.0 20.9 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.9 21.0	20525 836.5 MHz 20.8 21.0 20.9 20.8 20.9 20.9 20.9 21.0 21.2 21.1 20.9 21.0 21.2 21.1 20.9 21.0 21.0 21.0 21.0 20.9	20625 846.5 MHz 20.8 21.0 20.8 20.8 20.8 20.8 20.9 20.8 21.0 21.2 21.1 20.7 20.8 20.8 20.8 21.0 21.2 21.1 20.7 20.8 20.8 20.8 20.8 21.1 21.2 21.2 20.5	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22

LTE Band 5 CELL Main1 Measured Results (Leveraged from FCC ID: PY7-76732V) (continued)

					Normal Aver	age Power (dBm	1)	
BW	Mode	RB	RB	20415	20525	20635		Tune-up
(MHz)		Allocation	offset	825.5 MHz	836.5 MHz	847.5 MHz	MPR	Limit
		1	0	20.7	20.9	20.8	0	22
		1	8	20.8	21.0	20.9	0	22
		1	14	20.7	20.9	20.8	0	22
	QPSK	8	0	20.8	20.9	20.9	0	22
		8	4	20.8	20.9	20.9	0	22
		8	7	20.8	21.0	20.9	0	22
		15	0	20.7	20.9	20.9	0	22
		1	0	20.9	21.0	21.0	0	22
		1	8	21.0	21.2	21.1	0	22
		1	14	20.9	21.1	21.0	0	22
3 MHz	16QAM	8	0	20.8	20.9	20.9	0	22
		8	4	20.9	20.9	21.0	0	22
		8	7	20.8	21.0	21.0	0	22
		15	0	20.8	20.9	20.9	0	22
		1	0	21.0	21.2	21.0	0	22
		1	8	21.2	21.3	21.1	0	22
		1	14	21.0	21.2	21.0	0	22
	64QAM	8	0	20.4	20.5	20.5	0	22
		8	4	20.5	20.6	20.5	0	22
		8	7	20.5	20.6	20.5	0	22
		15	0	20.4	20.5	20.5	0	22
DW		DD	DD		Normal Aver	age Power (dBm	1)	
BW (MHz)	Mode	RB Allocation	RB offset	20407	Normal Aver 20525	age Power (dBm 20643		Tune-up
BW (MHz)	Mode	RB Allocation	RB offset	20407 824.7 MHz			MPR	Tune-up Limit
	Mode	Allocation 1	offset 0	824.7 MHz 20.7	20525 836.5 MHz 20.8	20643 848.3 MHz 20.8		
	Mode	Allocation	offset 0 3	824.7 MHz	20525 836.5 MHz	20643 848.3 MHz	MPR	Limit
		Allocation 1 1 1	offset 0 3 5	824.7 MHz 20.7 20.7 20.7	20525 836.5 MHz 20.8 20.9 20.9	20643 848.3 MHz 20.8 20.8 20.8	0 0 0	22 22 22 22
	Mode QPSK	Allocation 1 1	offset 0 3	824.7 MHz 20.7 20.7	20525 836.5 MHz 20.8 20.9	20643 848.3 MHz 20.8 20.8	0 0	Limit 22 22
		Allocation 1 1 1	0 3 5 0 1	824.7 MHz 20.7 20.7 20.7	20525 836.5 MHz 20.8 20.9 20.9	20643 848.3 MHz 20.8 20.8 20.8	0 0 0	22 22 22 22
		Allocation 1 1 1 3	0 3 5 0	824.7 MHz 20.7 20.7 20.7 20.7	20525 836.5 MHz 20.8 20.9 20.9 20.9	20643 848.3 MHz 20.8 20.8 20.8 20.8	MPR 0 0 0 0 0 0 0	22 22 22 22 22
		1 1 1 3 3 3 3 6	0 3 5 0 1 3 0	824.7 MHz 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	20525 836.5 MHz 20.8 20.9 20.9 20.8 20.9 20.9 20.9 20.9	20643 848.3 MHz 20.8 20.8 20.8 20.8 20.8 20.8 20.8	0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22
		Allocation 1 1 1 3 3 3	0 3 5 0 1 3 0 0 0	824.7 MHz 20.7 20.7 20.7 20.7 20.7 20.7	20525 836.5 MHz 20.8 20.9 20.9 20.8 20.9 20.9 20.9 20.9 20.8	20643 848.3 MHz 20.8 20.8 20.8 20.8 20.8 20.8	0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
		1 1 1 3 3 3 6 1 1 1	0 3 5 0 1 3 0 0 3	824.7 MHz 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	20525 836.5 MHz 20.8 20.9 20.9 20.8 20.9 20.9 20.8 21.1 21.1	20643 848.3 MHz 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8	0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)		1 1 1 3 3 3 6 1 1 1 1 1	0 3 5 0 1 3 0 0 3 3 5 5	824.7 MHz 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	20525 836.5 MHz 20.8 20.9 20.9 20.8 20.9 20.9 20.8 21.1 21.1 21.0	20643 848.3 MHz 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8	0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
		1 1 1 3 3 3 6 1 1 1 1 3 3 3 3 6 1 1 1 1	0 3 5 0 1 3 0 0 3 5 0 0 0 5 0 0	824.7 MHz 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	20525 836.5 MHz 20.8 20.9 20.9 20.8 20.9 20.9 20.8 21.1 21.1	20643 848.3 MHz 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8	0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 1 3 3 3	0 3 5 0 1 3 0 0 3 3 5 5	824.7 MHz 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	20525 836.5 MHz 20.8 20.9 20.9 20.8 20.9 20.9 20.8 21.1 21.1 21.0	20643 848.3 MHz 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8	0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	1 1 1 3 3 3 6 1 1 1 1 3 3 3 3 6 1 1 1 1	0 3 5 0 1 3 0 0 3 5 0 0 0 5 0 0	824.7 MHz 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	20525 836.5 MHz 20.8 20.9 20.9 20.8 20.9 20.9 20.8 21.1 21.1 21.0 21.0	20643 848.3 MHz 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8	0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 1 3 3 3	0 3 5 0 1 3 0 0 3 5 0 1 3 0 0 1 3 5 0 0 1 3 0 0	824.7 MHz 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	20525 836.5 MHz 20.8 20.9 20.9 20.8 20.9 20.9 20.8 21.1 21.1 21.0 21.0 21.0 20.8	20643 848.3 MHz 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 3 3 6 1 1 1 1 1 1	0 3 5 0 1 3 0 0 3 5 0 1 3 0 0 1 3 0 0 0 0 0 0 0 0	824.7 MHz 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	20525 836.5 MHz 20.8 20.9 20.9 20.8 20.9 20.9 20.8 21.1 21.1 21.0 21.0 21.0 20.8 20.8	20643 848.3 MHz 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 3 3 1 1 1 1 1 1 1	0 3 5 0 1 3 0 0 3 5 0 1 3 0 0 1 3 5 0 1 3 0 3 5 0 1 3 0 3	824.7 MHz 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	20525 836.5 MHz 20.8 20.9 20.9 20.8 20.9 20.9 20.8 21.1 21.1 21.0 21.0 21.0 20.8	20643 848.3 MHz 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 3 3 6 1 1 1 1 1 1	0 3 5 0 1 3 0 0 3 5 0 1 3 0 0 1 3 0 0 0 0 0 0 0 0	824.7 MHz 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	20525 836.5 MHz 20.8 20.9 20.9 20.8 20.9 20.9 20.8 21.1 21.1 21.0 21.0 21.0 20.8 20.8	20643 848.3 MHz 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 1 3 3 3 3 6 1 1 1 1	0 3 5 0 1 3 0 0 3 5 0 1 3 0 0 1 3 5 0 1 3 0 3 5 0 1 3 0 3	824.7 MHz 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	20525 836.5 MHz 20.8 20.9 20.9 20.8 20.9 20.9 20.8 21.1 21.1 21.0 21.0 21.0 21.0 21.0 21.0	20643 848.3 MHz 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 3 3 6 1 1 1 1 1 1	0 0 3 5 0 0 1 3 0 0 0 3 5 5 0 0 3 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 0 5 5 5 0 0 5 5 5 0 0 5 5 5 0 0 5 5 5 0 0 5 5 5 0 0 5 5 5 0 0 5 5 5 0 0 5	824.7 MHz 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	20525 836.5 MHz 20.8 20.9 20.9 20.8 20.9 20.9 20.8 21.1 21.1 21.0 21.0 21.0 21.0 21.0 21.0	20643 848.3 MHz 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 1 3 3 3 3 6 1 1 1 1	0	824.7 MHz 20.7 20.7 20.7 20.7 20.7 20.7 20.7 20.7	20525 836.5 MHz 20.8 20.9 20.9 20.8 20.9 20.9 20.8 21.1 21.1 21.0 21.0 21.0 21.0 21.0 21.2 21.2	20643 848.3 MHz 20.8 20.8 20.8 20.8 20.8 20.8 20.8 20.8	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22

LTE Band 12 CELL Main1 Measured Results (Leveraged from FCC ID: PY7-76732V)

					Normal Aver	age Power (dBm	1)	
BW	Mode	RB	RB	23060	23095	23130		Tune-up
(MHz)		Allocation	offset	704 MHz	707.5 MHz	711 MHz	MPR	Limit
		1	0	21.0	20.9	21.0	0	22
		1	25	21.0	21.0	21.0	0	22
		1	49	21.0	21.0	20.9	0	22
	QPSK	25	0	20.9	21.0	21.0	0	22
		25	12	21.1	21.0	21.1	0	22
		25	25	21.0	21.0	21.0	0	22
		50	0	21.0	21.0	21.0	0	22
		1	0	21.1	21.1	21.1	0	22
		1	25	21.1	21.1	21.2	0	22
		1	49	21.2	21.1	21.0	0	22
10 MHz	16QAM	25	0	20.9	21.0	21.0	0	22
		25	12	21.0	21.0	21.0	0	22
		25	25	21.0	21.0	21.0	0	22
		50	0	21.0	21.0	21.0	0	22
		1	0	21.3	21.3	21.3	0	22
		1	25	21.2	21.3	21.3	0	22
		1	49	21.3	21.3	21.3	0	22
	64QAM	25	0	20.4	20.5	20.5	0	22
		25	12	20.5	20.5	20.6	0	22
		25	25	20.5	20.5	20.6	0	22
		50	0	20.5	20.5	20.6	0	22
BW		RB	RB		Normal Aver	age Power (dBm	<u>ı)</u>	
(MHz)	Mode	Allocation	offset	23035	23095	23155	MPR	Tune-up
			_	701.5 MHz	707.5 MHz	713.5 MHz	-	Limit
		1	0	20.9	20.9	20.9	0	22
		1	12	21.0	21.1	21.1	0	22
	00014	1	24	20.9	20.9	21.0	0	22
	QPSK	12		00.0	22.0	04.0		
	I	40	0	20.9	20.9	21.0	0	22
		12	7	21.0	21.0	21.0	0	22
		12	7	21.0 21.0	21.0 21.0	21.0 21.0	0 0 0	22 22
		12 25	7 13 0	21.0 21.0 21.0	21.0 21.0 20.9	21.0 21.0 20.9	0 0 0	22 22 22
		12 25 1	7 13 0	21.0 21.0 21.0 21.0	21.0 21.0 20.9 21.1	21.0 21.0 20.9 21.1	0 0 0 0	22 22 22 22 22
		12 25 1	7 13 0 0	21.0 21.0 21.0 21.0 21.1	21.0 21.0 20.9 21.1 21.3	21.0 21.0 20.9 21.1 21.3	0 0 0 0	22 22 22 22 22 22
5 MU-	1600M	12 25 1 1	7 13 0 0 12 24	21.0 21.0 21.0 21.0 21.1 21.1	21.0 21.0 20.9 21.1 21.3 21.2	21.0 21.0 20.9 21.1 21.3 21.2	0 0 0 0 0	22 22 22 22 22 22 22
5 MHz	16QAM	12 25 1 1 1 1	7 13 0 0 12 24 0	21.0 21.0 21.0 21.0 21.1 21.0 20.9	21.0 21.0 20.9 21.1 21.3 21.2 21.0	21.0 21.0 20.9 21.1 21.3 21.2 20.9	0 0 0 0 0 0 0	22 22 22 22 22 22 22 22
5 MHz	16QAM	12 25 1 1 1 1 12	7 13 0 0 12 24 0 7	21.0 21.0 21.0 21.0 21.1 21.0 20.9 21.0	21.0 21.0 20.9 21.1 21.3 21.2 21.0 21.1	21.0 21.0 20.9 21.1 21.3 21.2 20.9 21.0	0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22
5 MHz	16QAM	12 25 1 1 1 1 12 12 12	7 13 0 0 12 24 0 7	21.0 21.0 21.0 21.0 21.1 21.0 20.9 21.0 21.0	21.0 21.0 20.9 21.1 21.3 21.2 21.0 21.1 21.1	21.0 21.0 20.9 21.1 21.3 21.2 20.9 21.0	0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22
5 MHz	16QAM	12 25 1 1 1 1 12 12 12 12 25	7 13 0 0 12 24 0 7 13	21.0 21.0 21.0 21.0 21.1 21.0 20.9 21.0 21.0 21.0	21.0 21.0 20.9 21.1 21.3 21.2 21.0 21.1 21.1 20.9	21.0 21.0 20.9 21.1 21.3 21.2 20.9 21.0 21.0 20.9	0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22
5 MHz	16QAM	12 25 1 1 1 12 12 12 12 25	7 13 0 0 12 24 0 7 13 0	21.0 21.0 21.0 21.0 21.1 21.0 20.9 21.0 21.0 21.0 21.3	21.0 21.0 20.9 21.1 21.3 21.2 21.0 21.1 21.1 20.9 21.3	21.0 21.0 20.9 21.1 21.3 21.2 20.9 21.0 21.0 20.9 21.3	0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
5 MHz	16QAM	12 25 1 1 1 12 12 12 12 25 1	7 13 0 0 12 24 0 7 13 0	21.0 21.0 21.0 21.0 21.1 21.0 20.9 21.0 21.0 21.0 21.2	21.0 21.0 20.9 21.1 21.3 21.2 21.0 21.1 21.1 20.9 21.3 21.3	21.0 21.0 20.9 21.1 21.3 21.2 20.9 21.0 21.0 20.9 21.3 21.4	0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
5 MHz		12 25 1 1 1 12 12 12 25 1 1	7 13 0 0 12 24 0 7 13 0 0	21.0 21.0 21.0 21.1 21.0 20.9 21.0 21.0 21.0 21.2 21.2	21.0 21.0 20.9 21.1 21.3 21.2 21.0 21.1 20.9 21.3 21.3 21.2	21.0 21.0 20.9 21.1 21.3 21.2 20.9 21.0 21.0 20.9 21.3 21.4 21.3	0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
5 MHz	16QAM 64QAM	12 25 1 1 1 12 12 12 25 1 1 1 1	7 13 0 0 12 24 0 7 13 0 0 12 24	21.0 21.0 21.0 21.0 21.1 21.0 20.9 21.0 21.0 21.2 21.2 20.4	21.0 21.0 20.9 21.1 21.3 21.2 21.0 21.1 20.9 21.3 21.3 21.2 20.5	21.0 21.0 20.9 21.1 21.3 21.2 20.9 21.0 21.0 20.9 21.3 21.4 21.3 20.5	0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
5 MHz		12 25 1 1 1 12 12 12 25 1 1	7 13 0 0 12 24 0 7 13 0 0	21.0 21.0 21.0 21.1 21.0 20.9 21.0 21.0 21.0 21.2 21.2	21.0 21.0 20.9 21.1 21.3 21.2 21.0 21.1 20.9 21.3 21.3 21.2	21.0 21.0 20.9 21.1 21.3 21.2 20.9 21.0 21.0 20.9 21.3 21.4 21.3	0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22

LTE Band 12 CELL Main1 Measured Results (Leveraged from FCC ID: PY7-76732V) (continued)

					Normal Aver	age Power (dBm	1)	
BW	Mode	RB	RB "	23025	23095	23165		Tune-up
(MHz)		Allocation	offset	700.5 MHz	707.5 MHz	714.5 MHz	MPR	Limit
		1	0	20.9	20.9	20.9	0	22
		1	8	20.9	21.1	21.0	0	22
		1	14	20.9	21.0	20.9	0	22
	QPSK	8	0	20.9	21.0	20.9	0	22
	<u> </u>	8	4	20.9	21.0	21.1	0	22
		8	7	21.0	21.1	21.0	0	22
		15	0	20.9	20.9	20.9	0	22
		1	0	21.0	21.1	21.1	0	22
		1	8	21.1	21.3	21.2	0	22
		1	14	21.0	21.1	21.1	0	22
3 MHz	16QAM	8	0	21.0	21.0	21.0	0	22
02		8	4	21.0	21.0	21.1	0	22
		8	7	21.0	21.1	21.1	0	22
		15	0	20.9	21.0	20.9	0	22
		1	0	21.3	21.3	21.3	0	22
		1	8	21.3	21.3	21.3	0	22
		1	14	21.3	21.3	21.2	0	22
	64QAM	8	0	20.5	20.5	20.5	0	22
		8	4	20.5	20.5	20.6	0	22
		8	7	20.5	20.6	20.6	0	22
		15	0	20.5	20.4	20.5	0	22
					Normal Aver	age Power (dBm	1)	
BW (MHz)	Mode	RB Allocation	RB offset	23017	Normal Aver 23095	age Power (dBm 23173		Tune-up
BW (MHz)	Mode	RB Allocation	RB offset	23017 699.7 MHz			MPR	Tune-up Limit
	Mode				23095	23173		
	Mode	Allocation	offset	699.7 MHz	23095 707.5 MHz	23173 715.3 MHz	MPR	Limit
	Mode	Allocation 1	offset 0	699.7 MHz 21.0	23095 707.5 MHz 21.0	23173 715.3 MHz 21.0	MPR 0	Limit 22
	Mode QPSK	Allocation 1 1	offset 0 3	699.7 MHz 21.0 21.0	23095 707.5 MHz 21.0 21.1	23173 715.3 MHz 21.0 21.0	0 0	Limit 22 22
		Allocation 1 1 1 3 3	offset 0 3 5	699.7 MHz 21.0 21.0 21.0	23095 707.5 MHz 21.0 21.1 21.0	23173 715.3 MHz 21.0 21.0 21.0	0 0 0	22 22 22 22
		Allocation 1 1 1 3	0 3 5 0	699.7 MHz 21.0 21.0 21.0 21.0	23095 707.5 MHz 21.0 21.1 21.0 21.0	23173 715.3 MHz 21.0 21.0 21.0 20.9	MPR 0 0 0 0 0 0 0	22 22 22 22 22
		Allocation 1 1 1 3 3	0 3 5 0	21.0 21.0 21.0 21.0 21.0 21.0	23095 707.5 MHz 21.0 21.1 21.0 21.0 21.0	23173 715.3 MHz 21.0 21.0 21.0 20.9 21.0	0 0 0 0 0	22 22 22 22 22 22
		Allocation 1 1 1 3 3 3	0 3 5 0 1 3 0 0 0	21.0 21.0 21.0 21.0 21.0 21.0 21.0	23095 707.5 MHz 21.0 21.1 21.0 21.0 21.0 21.0 21.0 21.0	23173 715.3 MHz 21.0 21.0 21.0 21.0 20.9 21.0 21.0	0 0 0 0 0 0	22 22 22 22 22 22 22 22
		1 1 1 3 3 3 6 1 1 1	0 3 5 0 1 3 0 0 3	21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	23095 707.5 MHz 21.0 21.1 21.0 21.0 21.0 21.0 21.0 21.0	23173 715.3 MHz 21.0 21.0 21.0 20.9 21.0 21.0 21.0 21.0	0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
		1 1 3 3 3 6 1 1 1 1 1	0 3 5 0 1 3 0 0 0	699.7 MHz 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	23095 707.5 MHz 21.0 21.1 21.0 21.0 21.0 21.0 21.0 21.0	23173 715.3 MHz 21.0 21.0 21.0 21.0 20.9 21.0 21.0 21.0 21.0 21.1	0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
		1 1 1 3 3 3 6 1 1 1	0 3 5 0 1 3 0 0 3	21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	23095 707.5 MHz 21.0 21.1 21.0 21.0 21.0 21.0 21.0 21.0	23173 715.3 MHz 21.0 21.0 21.0 21.0 20.9 21.0 21.0 21.0 21.0 21.0 21.0 21.1 21.2	0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 3 3 3	0 3 5 0 1 3 0 0 3 5 5	699.7 MHz 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	23095 707.5 MHz 21.0 21.1 21.0 21.0 21.0 21.0 21.0 21.0	23173 715.3 MHz 21.0 21.0 21.0 21.0 20.9 21.0 21.0 21.0 21.1 21.2 21.1	0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	1 1 1 3 3 3 6 1 1 1 1 3 3 3 3 6 1 1 1 1	0 3 5 0 1 3 0 0 3 5 0 0 0 3 5 0 0 0 0 0	699.7 MHz 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	23095 707.5 MHz 21.0 21.1 21.0 21.0 21.0 21.0 21.0 21.0	23173 715.3 MHz 21.0 21.0 21.0 20.9 21.0 21.0 21.0 21.0 21.0 21.0 21.1 21.2 21.1 21.0	0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 3 3 6 6	0 3 5 0 0 1 3 5 0 1 3 0 0 0 1 3 0 0 0 0 1 3 0 0 0 0 1 0 0 0 0	699.7 MHz 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	23095 707.5 MHz 21.0 21.1 21.0 21.0 21.0 21.0 21.0 21.0	23173 715.3 MHz 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 3 3 6 1 1 1 1 1 1	0 3 5 0 1 3 0 0 3 5 0 1 3 0 0 1 3 0 0 0 0 0 0 0 0	699.7 MHz 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	23095 707.5 MHz 21.0 21.1 21.0 21.0 21.0 21.0 21.0 21.0	23173 715.3 MHz 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 3 3 1 1 1 1 1 1 1	0 3 5 0 1 3 0 0 3 5 0 1 3 0 0 3 5 0 1 3 0 3 5 0 1 3 0 3	699.7 MHz 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	23095 707.5 MHz 21.0 21.1 21.0 21.0 21.0 21.0 21.0 21.0	23173 715.3 MHz 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 3 3 6 1 1 1 1 1 1	0 0 3 5 0 0 1 3 0 0 0 3 5 5 0 0 3 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 0 5 5 0 0 5 5 5 0 0 5 5 5 0 0 5 5 5 0 0 5 5 5 0 0 5 5 5 0 0 5 5 5 0 0 5 5 5 0 0 5	699.7 MHz 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.1 21.1 21.2 21.1 21.0 21.1 21.1 21.0 21.1 21.1 21.1 21.0 21.1	23095 707.5 MHz 21.0 21.1 21.0 21.0 21.0 21.0 21.0 21.0	23173 715.3 MHz 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 1 1 3 3 3 6 1 1 1 1	0	699.7 MHz 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	23095 707.5 MHz 21.0 21.1 21.0 21.0 21.0 21.0 21.0 21.0	23173 715.3 MHz 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 1 3 3 3 6 1 1 1 3 3 3 3	0 3 5 0 0 1 3 0 0 3 5 0 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	699.7 MHz 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	23095 707.5 MHz 21.0 21.1 21.0 21.0 21.0 21.0 21.0 21.0	23173 715.3 MHz 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
(MHz)	QPSK	Allocation 1 1 1 3 3 3 6 1 1 1 1 1 3 3 3 6 1 1 1 1	0 0 3 5 0 0 3 5 0 0 3 5 0 0 0 3 5 0 0 0 0	699.7 MHz 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	23095 707.5 MHz 21.0 21.1 21.0 21.0 21.0 21.0 21.0 21.0	23173 715.3 MHz 21.0 21.0 21.0 21.0 21.0 21.0 21.0 21.0	MPR 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22

LTE Band 13 CELL Main1 Measured Results

Mode RB Offset RB Company Company	LIE Band					verage Power (dBm)	
1		Mode					Tune-up
1	(IVI⊓Z)		Allocation	oliset	782 MHz	MPR	
A			1	0	21.6	0	22
A			1	25	21.6	0	22
10 MHz			1	49	21.5	0	22
10 MHz		QPSK	25	0	21.5	0	22
10 MHz			25	12	21.6	0	22
10 MHz			25	25	21.6	0	22
16QAM 16QA			50	0	21.6	0	22
10 MHz			1	0	21.9	0	22
10 MHz			1	25	21.9	0	22
BW (MHz) Mode RB Allocation 1			1	49	21.9	0	22
BW (MHz) Mode RB Allocation 1	10 MHz	16QAM	25	0	21.1	0	22
SO O C C C C C C C C			25	12	21.2	0	22
BW (MHz) Mode Allocation 1			25	25	21.1	0	22
BW (MHz) Mode RB (MHz) Mode (MHz)			50	0	21.1	0	22
BW (MHz) Mode (MHz)			1	0	21.4	0	22
BW (MHz) Mode RB Allocation Page 1			1	25	21.3	0	22
BW (MHz) Mode RB Allocation RB Allocation MPR September MPR Mode MPR Mode MPR			1	49	21.4	0	22
BW (MHz) Mode RB Allocation RB Allocation MPR Signature MPR MP		64QAM	25	0	20.0	0	22
SO O 20.1 O 22			25	12	20.1	0	22
Normal Average Power (dBm) Normal Average Power (dBm) Normal Average Power (dBm)			25	25	20.1	0	22
Mode RB Allocation Allocation Allocation RB Allocation RB Tune-up Limit			50	0			22
Mode Allocation Offset 23230 MPR Tune-up Limit	BW		RB	RB		verage Power (dBm)	
MHz 1		Mode				MPR	
MHz 1			4	•			
PSK 12 0 21.5 0 22 12 7 21.5 0 22 12 13 21.6 0 22 25 0 21.6 0 22 1 1 0 22.0 0 22 1 1 12 22.0 0 22 1 1 24 21.9 0 22 1 1 24 21.9 0 22 1 1 2 13 21.0 0 22 1 1 2 13 21.1 0 22 1 1 1 12 13 21.1 0 22 1 1 1 12 13 21.1 0 22 1 1 1 12 21.4 0 22 1 1 1 12 21.4 0 22 1 1 1 12 21.4 0 22 1 1 1 12 21.4 0 22 1 1 1 12 21.4 0 22 1 1 1 12 21.4 0 22 1 1 1 12 21.4 0 22 1 1 1 12 21.4 0 22 1 1 1 12 21.4 0 22 1 1 1 12 21.4 0 22 1 1 1 12 21.4 0 22 1 1 1 12 21.4 0 22 1 1 1 12 21.4 0 22 1 1 1 12 21.4 0 22 1 1 1 12 13 20.0 0 22 1 12 13 20.0 0 22					21.5		
QPSK 12 0 21.5 0 22 12 7 21.5 0 22 12 13 21.6 0 22 25 0 21.6 0 22 1 0 22.0 0 22 1 12 22.0 0 22 1 12 21.9 0 22 12 7 21.0 0 22 12 7 21.0 0 22 12 13 21.1 0 22 1 1 0 22 1 1 1 2 2 1 0 22 1 1 2 2 1 0 22 1 1 2 2 1 0 22 1 1 2 2 1 0 22 1 24 2 2 1 0 22 12 7 2 0 0 2 12 7 2 0 0 2 12 13 2 0 0 0 22 1 0 <t< td=""><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td></t<>			-				
12 7 12 13 25 0 1 0 22.0 0 1 12 1 12 1 24 21.0 0 12 7 12 13 21.0 0 22.0 0 <td></td> <td></td> <td>1</td> <td>12</td> <td>21.6</td> <td>0</td> <td>22</td>			1	12	21.6	0	22
12 13 21.6 0 22 25 0 21.6 0 22 1 0 22.0 0 22 1 12 22.0 0 22 1 24 21.9 0 22 12 7 21.0 0 22 12 13 21.1 0 22 12 13 21.1 0 22 1 0 21.4 0 22 1 12 21.4 0 22 1 12 21.4 0 22 1 24 21.4 0 22 1 24 21.4 0 22 1 24 21.4 0 22 12 7 20.0 0 22 12 7 20.0 0 22 12 13 20.1 0 22		ODSK	1	12 24	21.6 21.6	0	22 22
5 MHz 16QAM 12 0 22 1 12 22.0 0 22 1 24 21.9 0 22 12 7 21.0 0 22 12 13 21.1 0 22 1 25 0 21.1 0 22 1 1 0 21.4 0 22 1 1 24 21.4 0 22 1 24 21.4 0 22 1 24 21.4 0 22 1 24 20.0 0 22 12 7 20.0 0 22 12 13 20.1 0 22		QPSK	1 1 12	12 24 0	21.6 21.6 21.5	0 0 0	22 22 22
5 MHz 1 0 0 22 1 12 0 22.0 0 22 1 24 24 21.9 0 22 12 7 21.0 0 22 12 13 25 0 21.1 0 22 25 0 21.1 0 22 1 0 21.4 0 22 1 12 24 21.4 0 22 1 24 21.4 0 22 1 24 22.0 0 22 1 24 22.0 0 22 1 24 20.0 0 22 12 7 20.0 0 22 12 13 20.1 0 22		QPSK	1 1 12 12	12 24 0 7	21.6 21.6 21.5 21.5	0 0 0 0	22 22 22 22 22
5 MHz 1 12 24 21.9 0 22 22 1 24 24 21.9 0 22 22 12 7 21.0 0 22 22 12 13 21.1 0 22 22 25 0 21.1 0 22 22 1 0 21.4 0 22 22 1 12 24 21.4 0 22 22 1 24 21.4 0 22 22 1 24 20.0 0 22 22 12 7 20.0 0 22 22 12 12 13 20.1 0 22 22		QPSK	1 1 12 12 12	12 24 0 7 13	21.6 21.6 21.5 21.5 21.6	0 0 0 0	22 22 22 22 22 22
1		QPSK	1 1 12 12 12 12 25	12 24 0 7 13	21.6 21.6 21.5 21.5 21.6 21.6	0 0 0 0 0	22 22 22 22 22 22 22
5 MHz 16QAM 12 0 21.0 0 22 12 7 21.0 0 22 12 13 21.1 0 22 25 0 21.1 0 22 1 0 21.4 0 22 1 12 21.4 0 22 1 24 21.4 0 22 64QAM 12 0 20.0 0 22 12 7 20.0 0 22 12 13 20.1 0 22		QPSK	1 1 12 12 12 12 25 1	12 24 0 7 13 0	21.6 21.6 21.5 21.5 21.6 21.6 22.0	0 0 0 0 0	22 22 22 22 22 22 22 22 22
12 7 21.0 0 22 12 13 21.1 0 22 25 0 21.1 0 22 1 0 22 1 1 0 21.4 0 22 1 1 12 21.4 0 22 1 1 24 21.4 0 22 1 1 24 21.4 0 22 1 1 2 0 20.0 0 22 1 2 13 20.0 0 22		QPSK	1 1 12 12 12 12 25 1	12 24 0 7 13 0 0	21.6 21.6 21.5 21.5 21.6 21.6 22.0 22.0	0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22
12 13 21.1 0 22 25 0 21.1 0 22 1 0 21.4 0 22 1 12 21.4 0 22 1 12 24 21.4 0 22 64QAM 12 0 20.0 0 22 12 13 20.1 0 22	5 MHz		1 1 12 12 12 12 25 1 1	12 24 0 7 13 0 0 12 24	21.6 21.6 21.5 21.5 21.6 21.6 22.0 22.0 21.9	0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22
25 0 1 0 21.4 0 22 1 12 21.4 0 22 1 24 21.4 0 22 21.4 0 22 21.4 0 22 20.0 0 22 12 7 20.0 0 22 12 13 20.1 0 22	5 MHz		1 12 12 12 12 25 1 1 1 1	12 24 0 7 13 0 0 12 24	21.6 21.6 21.5 21.5 21.6 21.6 22.0 22.0 21.9	0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22
1 0 21.4 0 22 1 12 21.4 0 22 1 24 21.4 0 22 1 24 20 0 22 12 7 20.0 0 22 12 13 20.1 0 22	5 MHz		1 1 12 12 12 25 1 1 1 1 12	12 24 0 7 13 0 0 12 24 0 7	21.6 21.6 21.5 21.5 21.6 21.6 22.0 22.0 21.9 21.0	0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
1 12 21.4 0 22 1 24 21.4 0 22 64QAM 12 0 20.0 0 22 12 7 20.0 0 22 12 13 20.1 0 22	5 MHz		1 12 12 12 12 25 1 1 1 12 12	12 24 0 7 13 0 0 12 24 0 7	21.6 21.6 21.5 21.5 21.6 21.6 22.0 22.0 21.9 21.0 21.0 21.1	0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
1 24 21.4 0 22 64QAM 12 0 20.0 0 22 12 7 20.0 0 22 12 13 20.1 0 22	5 MHz		1 1 12 12 12 25 1 1 1 1 12 12 12 12 25	12 24 0 7 13 0 0 12 24 0 7	21.6 21.6 21.5 21.5 21.6 21.6 21.6 21.0 21.0 21.0 21.1 21.1	0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
64QAM 12 0 20.0 0 22 12 7 20.0 0 22 12 13 20.1 0 22	5 MHz		1 1 12 12 12 12 25 1 1 1 1 12 12 12 12 12 12 11 11 11 11 1	12 24 0 7 13 0 0 12 24 0 7 13 0	21.6 21.6 21.5 21.5 21.6 21.6 21.6 22.0 22.0 21.9 21.0 21.0 21.1 21.1 21.1	0 0 0 0 0 0 0 0 0 0 0	22 22 22 22 22 22 22 22 22 22 22 22 22
12 7 12 13 20.0 0 22 20.1 0 22	5 MHz		1 1 12 12 12 12 25 1 1 1 12 12 12 12 12 12 11 11 11 11 11	12 24 0 7 13 0 0 12 24 0 7 13 0 0	21.6 21.6 21.5 21.5 21.6 21.6 21.6 22.0 22.0 21.9 21.0 21.1 21.1 21.1 21.4		22 22 22 22 22 22 22 22 22 22 22 22 22
12 13 20.1 0 22	5 MHz	16QAM	1 1 12 12 12 12 25 1 1 1 12 12 12 12 12 12 11 11 11 11 11	12 24 0 7 13 0 0 12 24 0 7 13 0 0	21.6 21.6 21.5 21.5 21.6 21.6 21.6 22.0 22.0 21.9 21.0 21.1 21.1 21.1 21.4 21.4		22 22 22 22 22 22 22 22 22 22 22 22 22
	5 MHz	16QAM	1 1 12 12 12 12 25 1 1 1 12 12 12 12 12 12 12 12 12 12 12	12 24 0 7 13 0 0 12 24 0 7 13 0 0	21.6 21.6 21.5 21.5 21.6 21.6 21.6 21.6 22.0 22.0 21.9 21.0 21.1 21.1 21.1 21.4 21.4 20.0		22 22 22 22 22 22 22 22 22 22 22 22 22
20.1	5 MHz	16QAM	1 1 12 12 12 12 25 1 1 1 12 12 12 12 12 12 12 11 1 1 12 12	12 24 0 7 13 0 0 12 24 0 7 13 0 0 12 24 0 7	21.6 21.6 21.5 21.5 21.6 21.6 21.6 22.0 22.0 21.9 21.0 21.1 21.1 21.1 21.4 21.4 20.0 20.0		22 22 22 22 22 22 22 22 22 22 22 22 22

LTE Band 41 CELL Main2 Measured Results (Leveraged from FCC ID: PY7-76732V)

						Normal Avora	ge Power (dBm	<u>-</u>		
BW	Mode	RB	RB	39750	40185	40620	41055	41490		-
(MHz)	iviode	Allocation	offset	2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz	MPR	Tune-up Limit
		1	0	19.1	19.0	19.0	18.9	19.1	0	20
			49							
		1		19.2	19.0	19.0	18.9	19.0	0	20
	0001	1 50	99	19.1	18.9	19.1	19.0	19.1	0	20
	QPSK	50	0	19.1	19.0	19.1	18.8	19.0	0	20
		50	24	19.2	19.1	19.2	19.0	19.2	0	20
		50	50	19.2	19.0	19.1	19.0	19.1	0	20
		100	0	19.2	19.1	19.1	18.9	19.0	0	20
		1	0	19.1	19.0	19.1	19.0	19.1	0	20
		1	49	19.4	19.1	19.1	19.0	19.3	0	20
		1	99	19.1	19.0	19.2	19.2	19.2	0	20
20 MHz	16QAM	50	0	19.2	19.0	19.0	18.9	19.1	0	20
		50	24	19.2	19.1	19.1	19.0	19.2	0	20
		50	50	19.2	19.1	19.1	19.0	19.1	0	20
		100	0	19.2	19.1	19.1	19.0	19.1	0	20
		1	0	19.1	19.1	19.0	18.9	19.1	0	20
		1	49	19.2	19.1	19.1	18.9	19.1	0	20
		1	99	19.1	19.0	19.1	19.0	19.0	0	20
	64QAM	50	0	19.1	19.1	19.0	18.8	19.0	0	20
		50	24	19.2	19.1	19.1	18.9	19.1	0	20
		50	50	19.2	19.1	19.1	19.0	19.1	0	20
		100	0	19.2	19.1	19.1	19.0	19.0	0	20
						Normal Avera	ge Power (dBm)		
D\A/		DD DD	DD			- Horman Atrona	ge i ewer (abiii	,		
BW (MHz)	Mode	RB Allocation	RB offset	39750	40185	40620	41055	41490	MPR	Tune-up
BW (MHz)	Mode		offset	2506 MHz	2549.5 MHz	40620 2593 MHz	41055 2636.5 MHz	41490 2680 MHz	MPR	Limit
	Mode					40620	41055	41490	MPR 0	
	Mode	Allocation	offset	2506 MHz	2549.5 MHz	40620 2593 MHz	41055 2636.5 MHz	41490 2680 MHz		Limit
	Mode	Allocation 1	offset 0	2506 MHz 19.1	2549.5 MHz 19.1	40620 2593 MHz 19.0	41055 2636.5 MHz 18.9	41490 2680 MHz 19.0	0	Limit 20
	Mode QPSK	Allocation 1 1	offset 0 37	2506 MHz 19.1 19.2	2549.5 MHz 19.1 19.1	40620 2593 MHz 19.0 19.0	41055 2636.5 MHz 18.9 18.9	41490 2680 MHz 19.0 19.0	0	20 20
		Allocation 1 1 1	0 37 74	2506 MHz 19.1 19.2 19.1	2549.5 MHz 19.1 19.1 19.1	40620 2593 MHz 19.0 19.0 19.1	41055 2636.5 MHz 18.9 18.9 19.0	41490 2680 MHz 19.0 19.0 19.1	0 0	20 20 20 20
		Allocation 1 1 1 1 36	0 37 74 0	2506 MHz 19.1 19.2 19.1 19.2	2549.5 MHz 19.1 19.1 19.1 19.0	40620 2593 MHz 19.0 19.0 19.1 19.0	41055 2636.5 MHz 18.9 18.9 19.0 18.9	41490 2680 MHz 19.0 19.0 19.1 19.0	0 0 0	20 20 20 20 20
		1 1 1 36 36 36	0 37 74 0 20	2506 MHz 19.1 19.2 19.1 19.2 19.2	2549.5 MHz 19.1 19.1 19.0 19.1	40620 2593 MHz 19.0 19.0 19.1 19.0 19.1	41055 2636.5 MHz 18.9 18.9 19.0 18.9 18.9	41490 2680 MHz 19.0 19.0 19.1 19.0 19.0	0 0 0 0	20 20 20 20 20 20 20
		1 1 1 36 36 36	0 37 74 0 20 39	2506 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2	2549.5 MHz 19.1 19.1 19.0 19.1 19.1	40620 2593 MHz 19.0 19.0 19.1 19.0 19.1 19.1	41055 2636.5 MHz 18.9 18.9 19.0 18.9 18.9 18.9	41490 2680 MHz 19.0 19.0 19.1 19.0 19.0 19.1	0 0 0 0 0	20 20 20 20 20 20 20 20
		1 1 1 36 36 36 36 75	0 37 74 0 20 39 0	2506 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.2	2549.5 MHz 19.1 19.1 19.0 19.1 19.1 19.1 19.1	40620 2593 MHz 19.0 19.0 19.1 19.0 19.1 19.1	41055 2636.5 MHz 18.9 18.9 19.0 18.9 18.9 18.9 18.9	41490 2680 MHz 19.0 19.0 19.1 19.0 19.0 19.1 19.1	0 0 0 0 0 0	20 20 20 20 20 20 20 20 20
		1 1 1 36 36 36 75 1	0 37 74 0 20 39 0 0	2506 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.2 19.1	2549.5 MHz 19.1 19.1 19.0 19.1 19.1 19.1 19.1 19.0	40620 2593 MHz 19.0 19.0 19.1 19.0 19.1 19.1 19.1 19.1 18.9	41055 2636.5 MHz 18.9 18.9 19.0 18.9 18.9 18.9 18.9	41490 2680 MHz 19.0 19.0 19.1 19.0 19.1 19.1 19.1 19.0	0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20
		1 1 36 36 36 75 1 1	0 37 74 0 20 39 0 37	2506 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.2 19.2 19.1 19.2	2549.5 MHz 19.1 19.1 19.0 19.1 19.1 19.1 19.1 19.1 19.0 19.1	40620 2593 MHz 19.0 19.0 19.1 19.0 19.1 19.1 19.1 19.1	41055 2636.5 MHz 18.9 18.9 19.0 18.9 18.9 18.9 18.9 18.9 18.9	41490 2680 MHz 19.0 19.0 19.1 19.0 19.1 19.0 19.1 19.1	0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	1 1 36 36 36 75 1 1 1 1	0 37 74 0 20 39 0 0 37 74	2506 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.2 19.2 19.1 19.2 19.2	2549.5 MHz 19.1 19.1 19.0 19.1 19.1 19.1 19.1 19.0 19.1 19.1 19.1	40620 2593 MHz 19.0 19.0 19.1 19.0 19.1 19.1 19.1 19.1	41055 2636.5 MHz 18.9 18.9 19.0 18.9 18.9 18.9 18.9 18.9 18.9	41490 2680 MHz 19.0 19.0 19.1 19.0 19.1 19.0 19.1 19.1	0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20
(MHz)	QPSK	1 1 36 36 75 1 1 1 36 36	0 37 74 0 20 39 0 37 74 0	2506 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.1 19.2 19.1 19.2 19.2 19.2	2549.5 MHz 19.1 19.1 19.0 19.1 19.1 19.1 19.1 19.0 19.1 19.1 19.1 19.1	40620 2593 MHz 19.0 19.0 19.1 19.0 19.1 19.1 19.1 19.1	41055 2636.5 MHz 18.9 18.9 19.0 18.9 18.9 18.9 18.9 18.9 18.9 18.9 18.9	41490 2680 MHz 19.0 19.0 19.1 19.0 19.1 19.1 19.0 19.1 19.0 19.1 19.0 19.1	0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	1 1 36 36 75 1 1 1 36 36 36 36	0 37 74 0 20 39 0 37 74 0 20 20 20 20	2506 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.1 19.2 19.1 19.2 19.2 19.3	2549.5 MHz 19.1 19.1 19.0 19.1 19.1 19.0 19.1 19.0 19.1 19.1 19.1 19.1 19.1	40620 2593 MHz 19.0 19.0 19.1 19.0 19.1 19.1 19.1 19.1	41055 2636.5 MHz 18.9 18.9 19.0 18.9 18.9 18.9 18.9 18.9 18.9 18.9 18.9	41490 2680 MHz 19.0 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.0	0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	1 1 36 36 36 36 36 36 36 36 36 36	0 37 74 0 20 39 0 20 39 39 39 39	2506 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.2	2549.5 MHz 19.1 19.1 19.0 19.1 19.1 19.0 19.1 19.1 19.1 19.1 19.1 19.1 19.1	40620 2593 MHz 19.0 19.0 19.1 19.0 19.1 19.1 19.1 19.1	41055 2636.5 MHz 18.9 18.9 19.0 18.9 18.9 18.9 18.9 18.9 18.9 18.9 18.9	41490 2680 MHz 19.0 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.0	0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	Allocation 1 1 1 36 36 36 75 1 1 1 36 36 36 36 75	0 37 74 0 20 39 0 20 39 0 0 0 39 0 0	2506 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.1 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2	2549.5 MHz 19.1 19.1 19.0 19.1 19.1 19.0 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1	40620 2593 MHz 19.0 19.0 19.1 19.0 19.1 19.1 19.1 19.0 19.0	41055 2636.5 MHz 18.9 18.9 19.0 18.9 18.9 18.9 18.9 18.9 18.9 18.9 18.9	41490 2680 MHz 19.0 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.0	0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	1 1 36 36 75 1 1 36 36 75 1 1 1 1 1 36 36 75 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 37 74 0 20 39 0 37 74 0 20 39 0 37 74 0 20 39 0 37	2506 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.1 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.3 19.2 19.2 19.2	2549.5 MHz 19.1 19.1 19.0 19.1 19.1 19.0 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1	40620 2593 MHz 19.0 19.0 19.1 19.0 19.1 19.1 19.1 19.0 19.0	41055 2636.5 MHz 18.9 18.9 19.0 18.9 18.9 18.9 18.9 18.9 18.9 18.9 18.9	41490 2680 MHz 19.0 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.0	0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	Allocation 1 1 1 36 36 36 75 1 1 36 36 36 75 1 1 1 1 36 36 36 75 1 1	0 37 74 0 20 39 0 20 39 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2506 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.1 19.2 19.2 19.2 19.2 19.2 19.3 19.2 19.2 19.2 19.3 19.2 19.2 19.2 19.2	2549.5 MHz 19.1 19.1 19.0 19.1 19.1 19.0 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1	40620 2593 MHz 19.0 19.0 19.1 19.0 19.1 19.1 19.1 19.0 19.0	41055 2636.5 MHz 18.9 18.9 19.0 18.9 18.9 18.9 18.9 18.9 18.9 18.9 18.9	41490 2680 MHz 19.0 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.0	0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	Allocation 1 1 1 36 36 36 75 1 1 36 36 36 75 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 37 74 0 20 39 0 0 37 74 0 0 37 74 0 0 37 74 0 0 37 74 0 0 37 74 0 0 0 37 74 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2506 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.3 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2	2549.5 MHz 19.1 19.1 19.0 19.1 19.1 19.0 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1	40620 2593 MHz 19.0 19.0 19.1 19.0 19.1 19.1 19.1 19.1	41055 2636.5 MHz 18.9 18.9 19.0 18.9 18.9 18.9 18.9 18.9 18.9 18.9 18.9	41490 2680 MHz 19.0 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.1	0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	Allocation 1 1 1 36 36 36 75 1 1 1 36 36 36 75 1 1 1 36 36 36 36 36 36	0 37 74 0 20 39 0 0 37 74 0 20 37 74 0 20 20 20	2506 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.1 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2	2549.5 MHz 19.1 19.1 19.1 19.0 19.1 19.1 19.0 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1	40620 2593 MHz 19.0 19.0 19.1 19.0 19.1 19.1 19.1 18.9 18.9 19.0 19.0 19.0 19.1 19.0 19.1 19.0 19.0	41055 2636.5 MHz 18.9 18.9 19.0 18.9 18.9 18.9 18.9 18.9 18.9 18.9 18.8 18.9 18.9	41490 2680 MHz 19.0 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	Allocation 1 1 1 36 36 36 75 1 1 36 36 36 75 1 1 36 36 36 75 1 1 1 36	0 37 74 0 20 39 0 0 37 74 0 0 37 74 0 0 37 74 0 0 37 74 0 0 37 74 0 0 0 37 74 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2506 MHz 19.1 19.2 19.1 19.2	2549.5 MHz 19.1 19.1 19.1 19.0 19.1 19.1 19.0 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1 19.1	40620 2593 MHz 19.0 19.0 19.1 19.0 19.1 19.1 19.1 18.9 18.9 19.0 19.0 19.0 19.1 19.1 19.0 19.0 19	41055 2636.5 MHz 18.9 18.9 19.0 18.9 18.9 18.9 18.9 18.9 18.9 18.9 18.9	41490 2680 MHz 19.0 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.0 19.1 19.1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2

LTE Band 41 CELL Main2 Measured Results (Leveraged from FCC ID: PY7-76732V) (continued)

						Normal Avera	ge Power (dBm)		
BW	Mode	RB	RB effect	39750	40185	40620	41055	41490		Tune-up
(MHz)		Allocation	offset	2506 MHz	2549.5 MHz	2593 MHz	2636.5 MHz	2680 MHz	MPR	Limit
		1	0	19.3	19.2	19.1	18.9	19.1	0	20
		1	25	19.3	19.2	19.1	19.0	19.2	0	20
		1	49	19.3	19.2	19.1	19.0	19.1	0	20
	QPSK	25	0	19.4	19.2	19.1	18.9	19.2	0	20
		25	12	19.4	19.3	19.2	19.1	19.3	0	20
		25	25	19.4	19.3	19.2	19.0	19.2	0	20
		50	0	19.4	19.3	19.2	19.1	19.3	0	20
		1	0	19.3	19.3	19.1	19.1	19.1	0	20
		1	25	19.3	19.3	19.0	19.1	19.2	0	20
		1	49	19.4	19.3	19.1	19.1	19.1	0	20
10 MHz	16QAM	25	0	19.4	19.1	19.1	19.0	19.2	0	20
		25	12	19.4	19.3	19.2	19.1	19.2	0	20
		25	25	19.4	19.3	19.2	19.1	19.2	0	20
		50	0	19.4	19.2	19.2	19.1	19.2	0	20
		1	0	19.3	19.2	19.1	19.0	19.1	0	20
		1	25	19.4	19.2	19.2	19.1	19.3	0	20
		1	49	19.3	19.3	19.2	19.0	19.2	0	20
	64QAM	25	0	19.4	19.2	19.1	19.0	19.1	0	20
		25	12	19.4	19.3	19.2	19.1	19.2	0	20
		25	25	19.4	19.3	19.2	19.1	19.2	0	20
		50	0	19.4	19.2	19.2	19.1	19.2	0	20
					•	Normal Avera	ge Power (dBm)	•	
							3 (,		
BW (MHz)	Mode	RB Allocation	RB offset	39750	40185	40620	41055	41490	MDD	Tune-up
BW (MHz)	Mode	RB Allocation	RB offset	39750 2506 MHz	40185 2549.5 MHz				MPR	Tune-up Limit
	Mode			7.7.7.7		40620	41055	41490	MPR 0	
	Mode	Allocation	offset	2506 MHz	2549.5 MHz	40620 2593 MHz	41055 2636.5 MHz	41490 2680 MHz		Limit
	Mode	Allocation 1	offset 0	2506 MHz 19.3	2549.5 MHz 19.1	40620 2593 MHz 19.1	41055 2636.5 MHz 18.9	41490 2680 MHz 19.2	0	Limit 20
	Mode QPSK	Allocation 1 1	offset 0 12	2506 MHz 19.3 19.5	2549.5 MHz 19.1 19.2	40620 2593 MHz 19.1 19.2	41055 2636.5 MHz 18.9 19.0	41490 2680 MHz 19.2 19.3	0	20 20
		Allocation 1 1 1	0 12 24	2506 MHz 19.3 19.5 19.3	2549.5 MHz 19.1 19.2 19.1	40620 2593 MHz 19.1 19.2 19.1	41055 2636.5 MHz 18.9 19.0	41490 2680 MHz 19.2 19.3 19.2	0 0	20 20 20 20
		Allocation 1 1 1 1 12	0 12 24 0	2506 MHz 19.3 19.5 19.3 19.4	2549.5 MHz 19.1 19.2 19.1 19.2	40620 2593 MHz 19.1 19.2 19.1 19.1	41055 2636.5 MHz 18.9 19.0 19.0 18.9	41490 2680 MHz 19.2 19.3 19.2 19.2	0 0 0	20 20 20 20 20
		1 1 1 1 12 12 12	0 12 24 0 7	2506 MHz 19.3 19.5 19.3 19.4 19.4	2549.5 MHz 19.1 19.2 19.1 19.2 19.3	40620 2593 MHz 19.1 19.2 19.1 19.1 19.2	41055 2636.5 MHz 18.9 19.0 19.0 18.9 19.1	41490 2680 MHz 19.2 19.3 19.2 19.2 19.3	0 0 0 0	20 20 20 20 20 20
		1 1 1 12 12 12 12	0 12 24 0 7 13	2506 MHz 19.3 19.5 19.3 19.4 19.4 19.4	2549.5 MHz 19.1 19.2 19.1 19.2 19.3 19.2	40620 2593 MHz 19.1 19.2 19.1 19.1 19.2 19.2	41055 2636.5 MHz 18.9 19.0 19.0 18.9 19.1 19.1	41490 2680 MHz 19.2 19.3 19.2 19.2 19.3 19.2	0 0 0 0 0	20 20 20 20 20 20 20 20
		1 1 1 12 12 12 25	0 12 24 0 7 13	2506 MHz 19.3 19.5 19.3 19.4 19.4 19.4 19.4	2549.5 MHz 19.1 19.2 19.1 19.2 19.3 19.3 19.2 19.3	40620 2593 MHz 19.1 19.2 19.1 19.1 19.2 19.2 19.2	41055 2636.5 MHz 18.9 19.0 19.0 18.9 19.1 19.1 19.0	41490 2680 MHz 19.2 19.3 19.2 19.2 19.3 19.2 19.2	0 0 0 0 0 0	20 20 20 20 20 20 20 20 20
		1 1 1 12 12 12 25 1 1 1 1	0 12 24 0 7 13 0	2506 MHz 19.3 19.5 19.3 19.4 19.4 19.4 19.4 19.4 19.3	2549.5 MHz 19.1 19.2 19.1 19.2 19.3 19.2 19.3 19.2	40620 2593 MHz 19.1 19.2 19.1 19.1 19.2 19.2 19.2 19.2	41055 2636.5 MHz 18.9 19.0 19.0 18.9 19.1 19.1 19.0 19.0	41490 2680 MHz 19.2 19.3 19.2 19.2 19.3 19.2 19.2 19.2	0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20
		1 1 1 12 12 12 25 1 1 1	0 12 24 0 7 13 0 12	2506 MHz 19.3 19.5 19.3 19.4 19.4 19.4 19.4 19.5 19.5	19.1 19.2 19.1 19.2 19.3 19.2 19.3 19.2 19.3	40620 2593 MHz 19.1 19.2 19.1 19.1 19.2 19.2 19.2 19.2 19.2 19.4	41055 2636.5 MHz 18.9 19.0 19.0 18.9 19.1 19.1 19.0 19.0 19.0 19.0	41490 2680 MHz 19.2 19.3 19.2 19.2 19.3 19.2 19.2 19.2 19.2 19.4	0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	1 1 1 12 12 12 25 1 1 1 1	0 12 24 0 7 13 0 0 12 24 24	2506 MHz 19.3 19.5 19.3 19.4 19.4 19.4 19.4 19.5 19.3 19.5 19.3	2549.5 MHz 19.1 19.2 19.1 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.3	40620 2593 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.2	41055 2636.5 MHz 18.9 19.0 19.0 18.9 19.1 19.1 19.0 19.0 19.0 19.0 19.0	41490 2680 MHz 19.2 19.3 19.2 19.2 19.3 19.2 19.2 19.2 19.2 19.2 19.2 19.4 19.2	0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	1 1 1 12 12 25 1 1 1 1 12 12 12 12 12 12 12 12 12 12 1	0 12 24 0 7 13 0 0 12 24 0 0	2506 MHz 19.3 19.5 19.3 19.4 19.4 19.4 19.4 19.3 19.5 19.3 19.5	2549.5 MHz 19.1 19.2 19.1 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.1	40620 2593 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.2	41055 2636.5 MHz 18.9 19.0 19.0 18.9 19.1 19.1 19.0 19.0 19.0 19.2 19.1 18.9	41490 2680 MHz 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.2 19.2 19.2 19.2 19.4 19.2 19.2	0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	1 1 1 12 12 25 1 1 1 1 12 12 12 12 12 12	0 12 24 0 7 13 0 0 12 24 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2506 MHz 19.3 19.5 19.3 19.4 19.4 19.4 19.3 19.5 19.3 19.5 19.3 19.4	2549.5 MHz 19.1 19.2 19.1 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.3 19.2	40620 2593 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.2	41055 2636.5 MHz 18.9 19.0 19.0 18.9 19.1 19.1 19.0 19.0 19.2 19.1 18.9 19.1	41490 2680 MHz 19.2 19.3 19.2 19.2 19.3 19.2 19.2 19.2 19.2 19.4 19.2 19.2 19.2 19.2	0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	1 1 1 1 1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1	0 12 24 0 7 13 0 0 12 24 0 7 13 13 12 24 0 7 13	2506 MHz 19.3 19.5 19.3 19.4 19.4 19.4 19.3 19.5 19.3 19.5 19.3 19.4 19.4 19.4	2549.5 MHz 19.1 19.2 19.1 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.1 19.2 19.1	40620 2593 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.2	41055 2636.5 MHz 18.9 19.0 19.0 18.9 19.1 19.1 19.0 19.2 19.1 18.9 19.1 19.1	41490 2680 MHz 19.2 19.3 19.2 19.2 19.3 19.2 19.2 19.2 19.2 19.4 19.2 19.2 19.2 19.2 19.2	0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	Allocation 1 1 1 12 12 12 12 25 1 1 1 12 12 25 25 25 25 25 25 25 25 25 26 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28	0 12 24 0 7 13 0 0 12 24 0 7 13 0 0 12 24 0 7 13 0 12	2506 MHz 19.3 19.5 19.3 19.4 19.4 19.4 19.3 19.5 19.3 19.5 19.3 19.4 19.4 19.3 19.4 19.3	2549.5 MHz 19.1 19.2 19.1 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.1 19.2 19.1 19.2	40620 2593 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.	41055 2636.5 MHz 18.9 19.0 19.0 18.9 19.1 19.1 19.0 19.2 19.1 18.9 19.1 19.1 19.0	41490 2680 MHz 19.2 19.3 19.2 19.3 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2	0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	Allocation 1 1 1 12 12 12 25 1 1 1 12 12 25 1 1 1 1	0 12 24 0 7 13 0 7 13 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2506 MHz 19.3 19.5 19.3 19.4 19.4 19.4 19.3 19.5 19.3 19.5 19.3 19.4 19.4 19.3 19.4 19.3 19.3 19.3	2549.5 MHz 19.1 19.2 19.1 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.1 19.2 19.1 19.2 19.1	40620 2593 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.	41055 2636.5 MHz 18.9 19.0 19.0 18.9 19.1 19.1 19.0 19.2 19.1 18.9 19.1 19.1 19.0 19.0 19.0	41490 2680 MHz 19.2 19.3 19.2 19.3 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2	0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	Allocation 1 1 1 12 12 12 25 1 1 1 12 12 25 1 1 1 1	0 12 24 0 7 13 0 0 12 24 0 7 13 0 0 12 24 0 7 13 0 12	2506 MHz 19.3 19.5 19.3 19.4 19.4 19.4 19.3 19.5 19.3 19.4 19.4 19.3 19.4 19.4 19.4 19.4 19.4	2549.5 MHz 19.1 19.2 19.1 19.2 19.3 19.2 19.3 19.2 19.3 19.2 19.1 19.2 19.1 19.2 19.1 19.2 19.1 19.2 19.3	40620 2593 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.	41055 2636.5 MHz 18.9 19.0 19.0 18.9 19.1 19.1 19.0 19.0 19.2 19.1 18.9 19.1 19.1 19.1 19.1 19.1 19.1	41490 2680 MHz 19.2 19.3 19.2 19.3 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2	0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	Allocation 1 1 1 12 12 12 12 25 1 1 1 12 12 12 12 11 11 11 12 11 11 11	0 12 24 0 7 13 0 0 12 24 0 7 13 0 0 12 24 24 24 24 24 24 24 24 24 24 26 24	2506 MHz 19.3 19.5 19.3 19.4 19.4 19.4 19.3 19.5 19.3 19.4 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3	2549.5 MHz 19.1 19.2 19.1 19.2 19.3 19.2 19.3 19.2 19.1 19.2 19.1 19.2 19.1 19.2 19.1 19.2 19.2 19.1 19.2 19.2 19.3	40620 2593 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.	41055 2636.5 MHz 18.9 19.0 19.0 18.9 19.1 19.1 19.0 19.0 19.2 19.1 18.9 19.1 19.0 19.0 19.1 19.0 19.0 19.0 19	41490 2680 MHz 19.2 19.3 19.2 19.2 19.3 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2	0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2
(MHz)	QPSK	Allocation 1 1 1 12 12 12 12 25 1 1 1 12 12 12 12 12 12 12 12 12 12 12	0 12 24 0 7 13 0 0 12 24 0 0 7 13 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 12 24 0 0 0 12 24 0 0 0 12 24 0 0 0 12 24 0 0 0 12 24 0 0 0 12 24 0 0 0 12 24 0 0 0 12 24 0 0 0 12 24 0 0 0 12 24 0 0 0 12 24 0 0 0 12 24 0 0 0 12 24 0 0 0 12 24 0 0 0 12 24 0 0 0 0 12 24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2506 MHz 19.3 19.5 19.3 19.4 19.4 19.4 19.3 19.5 19.3 19.4 19.4 19.3 19.4 19.3 19.3 19.3 19.3 19.3 19.3 19.3 19.3	2549.5 MHz 19.1 19.2 19.1 19.2 19.3 19.2 19.3 19.2 19.1 19.2 19.1 19.2 19.1 19.2 19.2 19.3 19.2 19.1 19.2 19.2 19.3	40620 2593 MHz 19.1 19.2 19.1 19.2 19.2 19.2 19.2 19.	41055 2636.5 MHz 18.9 19.0 19.0 18.9 19.1 19.1 19.0 19.2 19.1 18.9 19.1 19.0 19.0 19.0 19.0 19.0 19.0 19	41490 2680 MHz 19.2 19.3 19.2 19.3 19.2 19.2 19.2 19.2 19.2 19.2 19.2 19.2	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20 20 20 20 20 20 20 20 20 20 20 20 20 2

9.4. LTE Down-Link Carrier Aggregation

The tables below show the supported frequency bands of the device for DL Inter-band and DL Intra-band combinations.

Power measurements were performed on the channel with the highest maximum output power from Tune-up Procedure on ANT1 antenna.

When carrier aggregation is limited to downlink only, uplink maximum output power (single carrier) is measured for the supported combinations of downlink carrier aggregation listed in the table below. In applying the power measurement procedures of KDB 941225 D05A and April 2018 TCB workshop for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs (far right most configuration highlighted in the table below).

Index	2CC	Restriction	Completely Covered by Measurement Superset
2CC # 14	CA_41C	N/A	No

In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the CA configuration with the largest aggregated DL CA BW in each frequency band, independently for contiguous and non-contiguous CA; however, if the same frequency band is used for both contiguous and non-contiguous CA, power measurement was performed using the configuration with the largest aggregated BW and maximum output power among contiguous and non-contiguous CA.

2CC DL CA Measured Results (Leveraged from FCC ID: PY7-76732V)

E LITTRA CA	CC1 (UL)					CC1 (DL)			CC2 (DL)			CA				
E-UTRA CA configuration	Mode	BW (MHz)	Channel	Freq (MHz)	RB Offset	BW (MHz)	Channel	Freq (MHz)	BW (MHz)	Channel	Freq (MHz)	Aggregated BW	Inactive (dBm)	CA Active (dBm)	Delta	2CC #
CA 41C	QPSK	20	39750	2506	50.24	20	39750	2506	20	39948	2525.8	40	17.62	17.60	-0.02	14

9.5. WLAN 2.4GHz & WLAN 5GHz & Bluetooth

Data Reuse Testing Rational

This application is using the data reuse procedure from TCB workshop April 2021; RF Exposure Procedures (Remarks on Test Reductions via Data Referencing for Closely Related Products). WLAN and Bluetooth SAR data is referenced from FCC ID: PY7-76732V and is leveraged to cover variant FCC ID: PY7-43624K. All circuitry and features for WLAN and Bluetooth operations are identical between the two variants. The data reuse test plan was approved via manufacturer KDB inquiry.

Data Reuse SAR Test Approach

Full RF exposure testing was performed for WLAN and Bluetooth on the parent variant (FCC ID: PY7-76732V). The configurations with the highest SAR values for each equipment class were identified. These configurations were then tested on the variant model (FCC ID: PY7-43624K).

The variation in SAR values were well within the uncertainty budget of the SAR test equipment. The variant SAR results and worst case parent SAR values are summarized in section 1.

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10. Measured and Reported (Scaled) SAR Results

SAR Test Reduction criteria are as follows:

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

KDB 447498 D01 General RF Exposure Guidance:

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

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

KDB 648474 D04 Handset SAR:

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

KDB 648474 D04 Handset SAR (Phablet Only):

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

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

KDB 941225 D01 SAR test for 3G devices:

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

KDB 941225 D05 SAR for LTE Devices:

SAR test reduction is applied using the following criteria:

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

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KDB 248227 D01 SAR meas for 802.11:

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

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

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

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

10.1.GSM850

RF Exposure			Dist.				Power	(dBm)	1-g SAF	R (W/kg)	Plot
Conditions	Mode	Antenna	(mm)	Test Position	Ch #.	Freq. (MHz)	Tune-up Limit	Meas.	Meas.	Scaled	No.
				Left Cheek	190	836.6	26.9	25.7	0.073	0.096	
Head	GPRS	CELL Main1	0	Left Tilt	190	836.6	26.9	25.7	0.057	0.075	
Head	4 Slots	CELL IVIAIITI	U	Right Cheek	190	836.6	26.9	25.7	0.085	0.112	1
				Right Tilt	190	836.6	26.9	25.7	0.039	0.051	
Body-Worn	GPRS	CELL Main1	10	Back	190	836.6	26.9	25.7	0.175	0.231	2
and Hotspot	4 Slots	CLLL WAITT	10	Front	190	836.6	26.9	25.7	0.115	0.152	
Hotspot	GPRS	CELL Main1	10	Edge Left	190	836.6	26.9	25.7	0.091	0.120	
Hotspot	4 Slots	CLLL WAITT	10	Edge Bottom	190	836.6	26.9	25.7	0.093	0.123	
Body-Worn and Hotspot	DTM GPRS 2 Slots	CELL Main1	10	Back	190	836.6	29.9	29.2	0.221	0.260	3

10.2.GSM1900

RF Exposure			Dist.				Power	(dBm)	1-g SAF	R (W/kg)	Plot
Conditions	Mode	Antenna	(mm)	Test Position	Ch #.	Freq. (MHz)	Tune-up Limit	Meas.	Meas.	Scaled	No.
				Left Cheek	810	1909.8	22.0	21.1	0.019	0.023	
Head	GPRS	CELL Main2	0	Left Tilt	810	1909.8	22.0	21.1	0.011	0.014	
Head	4 Slots	CELL IVIAII12	U	Right Cheek	810	1909.8	22.0	21.1	0.035	0.043	4
				Right Tilt	810	1909.8	22.0	21.1	0.006	0.007	
Body-Worn	GPRS	CELL Main2	10	Back	810	1909.8	22.0	21.1	0.129	0.159	5
and Hotspot	4 Slots	CELL IVIAII12	10	Front	810	1909.8	22.0	21.1	0.122	0.150	
Hotspot	GPRS	CELL Main2	10	Edge Right	810	1909.8	22.0	21.1	0.103	0.127	
поіѕроі	4 Slots	CELL Mainz	10	Edge Bottom	810	1909.8	22.0	21.1	0.163	0.201	6
Hotspot	DTM GPRS 2 Slots	CELL Main2	10	Edge Bottom	810	1909.8	25.0	23.9	0.179	0.231	7

10.3.W-CDMA Band II

RF Exposure			Dist.				Power	(dBm)	1-g SAF	R (W/kg)	Plot
Conditions	Mode	Antenna	(mm)	Test Position	Ch #.	Freq. (MHz)	Tune-up Limit	Meas.	Meas.	Scaled	No.
				Left Cheek	9538	1907.6	19.7	19.0	0.032	0.038	
Head	Rel. 99 RMC	CELL Main2	0	Left Tilt	9538	1907.6	19.7	19.0	0.019	0.022	
пеац	12.2 kbps	CELL IVIAIIIZ	U	Right Cheek	9538	1907.6	19.7	19.0	0.038	0.045	8
	·			Right Tilt	9538	1907.6	19.7	19.0	0.013	0.015	
Body-Worn	Rel. 99 RMC	CELL Main2	10	Back	9538	1907.6	19.7	19.0	0.272	0.320	9
and Hotspot	12.2 kbps	CELL MAINZ	10	Front	9538	1907.6	19.7	19.0	0.193	0.227	
Hotspot	Rel. 99 RMC	CELL Main2	10	Edge Right	9538	1907.6	19.7	19.0	0.132	0.155	
поізроі	12.2 kbps	CELL Mainz	10	Edge Bottom	9538	1907.6	19.7	19.0	0.373	0.438	10

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10.4.W-CDMA Band IV

RF Exposure			Dist.				Power	(dBm)	1-g SAF	R (W/kg)	Plot
Conditions	Mode	Antenna	(mm)	Test Position	Ch #.	Freq. (MHz)	Tune-up Limit	Meas.	Meas.	Scaled	No.
				Left Cheek	1413	1732.6	18.7	18.0	0.034	0.040	
Head	Rel. 99 RMC	CELL Main2	0	Left Tilt	1413	1732.6	18.7	18.0	0.020	0.023	
пеац	12.2 kbps	CELL IVIAIIIZ	U	Right Cheek	1413	1732.6	18.7	18.0	0.054	0.063	11
				Right Tilt	1413	1732.6	18.7	18.0	0.020	0.023	
Body-Worn	Rel. 99 RMC	CELL Main2	10	Back	1413	1732.6	18.7	18.0	0.143	0.168	12
and Hotspot	12.2 kbps	OLLL Mainz	10	Front	1413	1732.6	18.7	18.0	0.114	0.134	
Hotspot	Rel. 99 RMC	CELL Main2	10	Edge Right	1413	1732.6	18.7	18.0	0.118	0.139	
Ποιδροί	12.2 kbps	OLLL Mainz	10	Edge Bottom	1413	1732.6	18.7	18.0	0.180	0.211	13

10.5.W-CDMA Band V

RF Exposure			Dist.				Power	(dBm)	1-g SAF	R (W/kg)	Plot
Conditions	Mode	Antenna	(mm)	Test Position	Ch #.	Freq. (MHz)	Tune-up Limit	Meas.	Meas.	Scaled	No.
				Left Cheek	4183	836.6	22.7	21.9	0.070	0.084	
Head	Rel. 99 RMC	CELL Main1	0	Left Tilt	4183	836.6	22.7	21.9	0.044	0.053	
пеац	12.2 kbps	CELL IVIAIITI	U	Right Cheek	4183	836.6	22.7	21.9	0.089	0.107	14
	•			Right Tilt	4183	836.6	22.7	21.9	0.051	0.061	
Body-Worn	Rel. 99 RMC	CELL Main1	10	Back	4183	836.6	22.7	21.9	0.176	0.212	15
and Hotspot	12.2 kbps	CELL MAIITI	10	Front	4183	836.6	22.7	21.9	0.121	0.145	
Hotspot	Rel. 99 RMC	CELL Main1	10	Edge Left	4183	836.6	22.7	21.9	0.112	0.135	
Ποιδροί	12.2 kbps	OLLL Maiiii	10	Edge Bottom	4183	836.6	22.7	21.9	0.074	0.089	

10.6.LTE Band 4 (20MHz Bandwidth)

RF Exposure			Dist.				RB		Power	(dBm)	1-g SAF	R (W/kg)	Plot
Conditions	Mode	Antenna	(mm)	Test Position	Ch #.	Freq. (MHz)	Allocation	RB Offset	Tune-up Limit	Meas.	Meas.	Scaled	No.
				Left Cheek	20175	1732.5	1	0	19.0	17.5	0.026	0.037	
				Leit Crieek	20175	1732.5	50	0	19.0	17.4	0.026	0.038	
				Left Tilt	20175	1732.5	1	0	19.0	17.5	0.011	0.016	
Head	QPSK	CELL Main2	0	Leit Tiit	20175	1732.3	50	0	19.0	17.4	0.012	0.017	
Head	QFSK	CELL IVIAII12	U	Right Cheek	k 20175 1732.5 —	1	0	19.0	17.5	0.048	0.068	16	
				Right Cheek	20175	1732.5	50	0	19.0	17.4	0.047	0.068	
				Right Tilt	20175	1732.5	1	0	19.0	17.5	0.010	0.014	
				Right filt	20175	1732.5	50	0	19.0	17.4	0.011	0.016	
				Back	20175	1732.5	1	0	19.0	17.5	0.125	0.177	
Body-Worn	QPSK	CELL Main2	10	Back	20175	1732.3	50	0	19.0	17.4	0.126	0.182	17
and Hotspot	QFSK	CELL IVIAII12	10	Front	20175	1732.5	1	0	19.0	17.5	0.097	0.137	
				FIORE	20175	1732.5	50	0	19.0	17.4	0.096	0.139	
				Edge Dight	20175	1732.5	1	0	19.0	17.5	0.091	0.129	
Hotopot	QPSK	CELL Main2	10	Edge Right	20175	1732.5	50	0	19.0	17.4	0.091	0.132	
Hotspot	QF3N	CELL Mainz	10	Edge Bottom	20175	1732.5	1	0	19.0	17.5	0.153	0.216	
				Euge Bollom	20175	1732.5	50	0	19.0	17.4	0.155	0.224	18

10.7.LTE Band 5 (10MHz Bandwidth)

RF Exposure			Dist.				RB		Power	(dBm)	1-g SAF	R (W/kg)	Plot
Conditions	Mode	Antenna	(mm)	Test Position	Ch #.	Freq. (MHz)	Allocation	RB Offset	Tune-up Limit	Meas.	Meas.	Scaled	No.
				Left Cheek	20525	836.5	1	25	22.0	20.9	0.052	0.067	
				Leit Crieek	20020	630.5	25	0	22.0	20.9	0.051	0.066	
				Left Tilt	20525	836.5	1	25	22.0	20.9	0.025	0.032	
Head	QPSK	CELL Main1	0	Leit Tiit	20020	630.5	25	0	22.0	20.9	0.024	0.031	
Head	QFSK	CELL IVIAIITI	U	Right Cheek	20525	836.5	1	25	22.0	20.9	0.058	0.075	19
				Right Cheek	20525	030.5	25	0	22.0	20.9	0.057	0.073	
				Right Tilt	20525	836.5	1	25	22.0	20.9	0.023	0.030	
				Right filt	20020	630.5	25	0	22.0	20.9	0.023	0.030	
				Back	20525	836.5	1	25	22.0	20.9	0.141	0.182	20
Body-Worn	QPSK	CELL Main1	10	Dack	20525	030.5	25	0	22.0	20.9	0.138	0.178	
and Hotspot	QPSK	CELL Main	10	Front	20525	836.5	1	25	22.0	20.9	0.097	0.125	
				FIORE	20525	636.5	25	0	22.0	20.9	0.097	0.125	
				Edge Left	20525	836.5	1	25	22.0	20.9	0.068	0.088	
Hotspot	QPSK	CELL Main1	10	Euge Leit	20020	030.3	25	0	22.0	20.9	0.070	0.090	
Hotspot	QF3N	CELL Main	10	Edge Bottom	20525	836.5	1	25	22.0	20.9	0.056	0.072	
				Euge Bottom	20020	030.3	25	0	22.0	20.9	0.053	0.068	

10.8.LTE Band 12 (10MHz Bandwidth)

RF Exposure			Dist.				RB		Power	(dBm)	1-g SAF	R (W/kg)	Plot
Conditions	Mode	Antenna	(mm)	Test Position	Ch #.	Freq. (MHz)	Allocation	RB Offset	Tune-up Limit	Meas.	Meas.	Scaled	No.
				Left Cheek	23095	707.5	1	25	22.0	21.0	0.044	0.055	
				Leit Crieek	23093	707.5	25	0	22.0	21.0	0.045	0.057	
				Left Tilt	23095	707.5	1	25	22.0	21.0	0.028	0.035	
Head	QPSK	CELL Main1	0	Leit IIIt	23093	707.5	25	0	22.0	21.0	0.030	0.038	
neau	QFSK	CELL IVIAIITI	U	Right Cheek	23095	707.5	1	25	22.0	21.0	0.045	0.057	
				Right Cheek	23093	707.5	25	0	22.0	21.0	0.046	0.058	21
				Right Tilt	23095 707.5	1	25	22.0	21.0	0.027	0.034		
				Right filt	23093	707.5	25	0	22.0	21.0	0.030	0.038	
				Back	23095	707.5	1	25	22.0	21.0	0.087	0.110	
Body-Worn	QPSK	CELL Main1	10	Back	23093	707.5	25	0	22.0	21.0	0.088	0.111	22
and Hotspot	QFSK	CELL IVIAIITI	10	Front	23095	707.5	1	25	22.0	21.0	0.064	0.081	
				FIOR	23093	707.5	25	0	22.0	21.0	0.067	0.084	
				Edgo Loft	23095	707.5	1	25	22.0	21.0	0.091	0.115	
Hotspot	QPSK	CELL Main1	10	Edge Left	23093	707.5	25	0	22.0	21.0	0.094	0.118	23
поізроі	QF3N	CELL Main	10	Edge Bottom	23095	707.5	1	25	22.0	21.0	0.019	0.024	
				Lage Bottom	23093	101.5	25	0	22.0	21.0	0.019	0.024	

10.9.LTE Band 13 (10MHz Bandwidth)

DE Evaceure			Dist.				RB		Power	(dBm)	1-g SAF	R (W/kg)	Plot
RF Exposure Conditions	Mode	Antenna	(mm)	Test Position	Ch #.	Freq. (MHz)	Allocation	RB Offset	Tune-up Limit	Meas.	Meas.	Scaled	No.
				Left Cheek	23230	782.0	1	0	22.0	20.9	0.063	0.081	
				Leit Crieek	23230	702.0	25	0	22.0	20.9	0.063	0.081	
				Left Tilt	23230	782.0	1	0	22.0	20.9	0.029	0.037	
Head	QPSK	CELL Main1	0	Leit Tiit	23230	762.0	25	0	22.0	20.9	0.030	0.039	
neau	QFSK	CELL IVIAIITI	U	Right Cheek	23230	782.0	1	0	22.0	20.9	0.069	0.089	24
				Right Cheek	23230	702.0	25	0	22.0	20.9	0.069	0.089	
				Right Tilt	23230	782.0	1	0	22.0	20.9	0.029	0.037	
				Right filt	23230	702.0	25	0	22.0	20.9	0.03	0.039	
				Back	23230	782.0	1	0	22.0	20.9	0.149	0.192	
Body-Worn	QPSK	CELL Main1	10	Back	23230	762.0	25	0	22.0	20.9	0.15	0.193	25
and Hotspot	QFSK	CELL IVIAIITI	10	Front	23230	782.0	1	0	22.0	20.9	0.103	0.133	
				FIORE	23230	702.0	25	0	22.0	20.9	0.103	0.133	
				Edge Left	23230	782.0	1	0	22.0	20.9	0.119	0.153	
Hotspot	QPSK	CELL Main1	10	Euge Leit	23230	102.0	25	0	22.0	20.9	0.122	0.157	
Πυιδρυι	QF3N	OLLL IVIAIIII	10	Edge Bottom	23230	782.0	1	0	22.0	20.9	0.036	0.046	
				Euge Bottom	23230	102.0	25	0	22.0	20.9	0.036	0.046	

10.10. LTE Band 41 (20MHz Bandwidth)

DE Evenesure			Dist.				RB		Power	(dBm)	1-g SAF	R (W/kg)	Plot
RF Exposure Conditions	Mode	Antenna	(mm)	Test Position	Ch #.	Freq. (MHz)	Allocation	RB Offset	Tune-up Limit	Meas.	Meas.	Scaled	No.
				Left Cheek	39750	2506.0	1	49	20.0	19.2	0.013	0.016	
				Leit Cheek	39750	2506.0	50	24	20.0	19.2	0.015	0.018	
				Left Tilt	39750	2506.0	1	49	20.0	19.2	0.011	0.013	
Head	QPSK	CELL Main2	0	Leit IIIt	39750	2506.0	50	24	20.0	19.2	0.012	0.014	
neau	QPSK	CELL Mainz	U	Right Cheek	39750 2506.0	2506.0	1	49	20.0	19.2	0.026	0.031	26
				Right Cheek	39730	2500.0	50	24	20.0	19.2	0.026	0.031	
				Right Tilt	39750 2506.0	1	49	20.0	19.2	0.005	0.006		
				Right filt	39750	2506.0	50	24	20.0	19.2	0.005	0.006	
				Back	39750	2506.0	1	49	20.0	19.2	0.146	0.176	
Body-Worn	QPSK	CELL Main2	10	Dack	39750	2506.0	50	24	20.0	19.2	0.149	0.179	27
and Hotspot	QPSK	CELL Mainz	10	Front	39750	2506.0	1	49	20.0	19.2	0.137	0.165	
				FIORE	39750	2506.0	50	24	20.0	19.2	0.140	0.168	
				Edge Dight	20750	2506.0	1	49	20.0	19.2	0.052	0.063	
Listanat	QPSK	CELL Main?	10	Edge Right	39750 25	2506.0	50	24	20.0	19.2	0.052	0.063	
Hotspot	QF5K	CELL Main2	10	Edge Bettem	20750	2506.0	1	49	20.0	19.2	0.202	0.243	
				Edge Bottom	39750	2506.0	50	24	20.0	19.2	0.206	0.248	28

10.11. WLAN & Bluetooth Spotcheck Verification

WLAN Spot Check Results for Variant FCC ID: PY7-43624K

											FCC ID: P	Y7-76732V	FCC ID: P'	Y7-43624K		
Technology	RF Exposure	Mode	Antenna	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	Power	(dBm)	1-g SAF	R (W/kg)	1-g SAF	R (W/kg)	Delta	Plot No.
	Condition								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled		
WLAN 2.4 GHz	Head	802.11b	WiFi Main	0	Right Cheek	1	2412	99.9%	14.0	13.8	0.345	0.362	0.437	0.458	27%	29
WLAN 5.5 GHz	Head	802.11ac (VHT160)	WiFi Main	0	Right Cheek	114	5570	99.7%	11.5	10.6	0.224	0.276	0.158	0.195	-29%	

WLAN Spot Check Results for Variant FCC ID: PY7-43624K (Extremity)

	RF								Dawe	(dBm)	FCC ID: P	Y7-76732V	FCC ID: P	Y7-43624K		
Technology	Exposure	Mode	Antenna	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB	Power	(dbm)	10-g SAI	R (W/kg)	10-g SA	R (W/kg)	Delta	Plot
3,	Condition			, ,			1 ()	Allocation	Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled		No.
WLAN 5.8 GHz	Extremity	802.11n (HT40)	WiFi Main	0	Edge Left	159	5795	99.6%	11.5	10.6	0.340	0.420	0.396	0.489	16%	30

Bluetooth Spot Check Results for Variant FCC ID: PY7-43624K

ı												FCC ID: P	Y7-76732V	FCC ID: P	Y7-43624K		
	Technology	RF Exposure	Mode	Antenna	Dist. (mm)	Test Position	Ch #.	Freq. (MHz)	RB Allocation	Power	(dBm)	1-g SAF	R (W/kg)	1-g SAF	R (W/kg)	Delta	Plot No.
		Condition								Tune-up Limit	Meas.	Meas.	Scaled	Meas.	Scaled		
	Bluetooth	Head	GFSK	WiFi Main	0	Right Cheek	76	2480	100%	14.0	13.5	0.272	0.305	0.257	0.288	-6%	31

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11. SAR Measurement Variability

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

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

Note(s):

Repeated measurement is not required since the original highest measured SAR is <0.8 W/kg (1-g) or 2 W/kg (10-g).

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12. Simultaneous Transmission Conditions

RF Exposure	Tx Mode	ww	VAN		WiFi Main			Wi-Fi Sub		NFC
Condition	1 x ivioue	CELL Main1	CELL Main2	2.4 GHz Wi-Fi	5 GHz Wi-Fi	Bluetooth	2.4 GHz Wi-Fi	5 GHz Wi-Fi	Bluetooth	NFC
	1	✓		✓			✓			
	2	✓			✓			✓		
	3	✓				✓				
	4	✓							>	
	5	✓			\	>		✓		
Head,	6	✓			✓			✓	✓	
Body-worn, &	7	✓		✓	✓		✓	✓		
Hotspot	8		✓	✓			✓			
Hotspot	9		✓		\			✓		
	10		✓			✓				
	11		✓						✓	
	12		✓		✓	✓		✓		
	13		√		✓			√	✓	
	14		✓	✓	✓			✓		
Extremity	15				✓			✓		✓

12.1. Simultaneous transmission SAR test exclusion considerations

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

Sum of SAR

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

12.2. Estimated SAR for Simultaneous Transmission SAR Analysis

Considerations for SAR estimation

- 1. When standalone SAR test exclusion applies, standalone SAR must also be estimated to determine simultaneous transmission SAR test exclusion.
- 2. Dedicated Host Approach criteria for SAR test exclusion is likewise applied to SAR estimation, with certain distinctions between test exclusion and SAR estimation:
 - When the separation distance from the antenna to an adjacent edge is ≤ 5 mm, a distance of 5 mm is applied for SAR estimation; this is the same between test exclusion and SAR estimation calculations.
 - o When the separation distance from the antenna to an adjacent edge is > 5 mm but ≤ 50 mm, the actual antenna-to-edge separation distance is applied for SAR estimation.
 - When the minimum test separation distance is > 50 mm, the estimated SAR value is 0.4 W/kg
- Please refer to <u>Estimated SAR Tables</u> to see which test positions are inherently compliant as they consist of only estimated SAR values for all applicable transmitters and consequently will always have sum of SAR values < 1.2 W/kg. Simultaneous transmission SAR analysis was therefore not performed for these test positions.

Estimated SAR for NFC

Antenna	Tx	Frequency	Output Power	Separation Distances (mm)	Estimated 10-g SAR Value (W/kg)
Antenna	Interface	(MHz)	mW	Back	Back
NFC	NFC	13.56	403	0	0.501

12.3. Sum of the SAR for WWAN CELL Main1 & Wi-Fi Normal State & BT

	Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)					
RF Exposure	WWAN WLAN 2.4 GHz		WLAN 5 GHz		BT		WWAN + WLAN 2.4 GHz	WWAN + WLAN 5 GHz	WWAN + WLAN 5 GHz + BT	WWAN + WLAN 5 GHz + BT	WWAN + BT	WWAN + BT	
Conditions	CELL Main1	WiFi Main	WiFi Sub	WiFi Main 4	WiFi Sub	WiFi Main	WiFi Sub	1+2+3	1+4+5	1+4+5+6	1+4+5+7	1+6	1+7
Head	0.112	0.458	0.169	0.276	0.068	0.305	0.088	0.739	0.456	0.761	0.544	0.417	0.200
Body	0.260	0.043	0.169	0.047	0.068	0.052	0.088	0.472	0.375	0.427	0.463	0.312	0.348
Hotspot	0.260	0.073	0.169	0.075	0.068	0.083	0.088	0.502	0.403	0.486	0.491	0.343	0.348

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because either the sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.4. Sum of the SAR for WWAN CELL Main1 & Wi-Fi Simultaneous 2G_5G State

		Stan	dalone SAR (V	Σ 1-g SAR (W/kg)		
	WWAN	WLAN:	2.4 GHz	WLAN 5 GHz		WWAN + WLAN 2.4 GHz + WLAN 5 GHz
RF Exposure Conditions	CELL Main1	WiFi Main	WiFi Sub	WiFi Main 4	WiFi Sub	1+2+3+4+5
Head	0.112	0.337	0.106	0.184	0.051	0.790
Body	0.260	0.042	0.106	0.025	0.051	0.484
Hotspot	0.260	0.077	0.106	0.044	0.051	0.538

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because either the sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.5. Sum of the SAR for WWAN CELL Main2 & Wi-Fi Normal State & BT

		Standalone SAR (W/kg)							Σ 1-g SAR (W/kg)					
RF Exposure	WWAN	WLAN	2.4 GHz	WLAN 5 GHz		BT		WWAN + WLAN 2.4 GHz	WWAN + WLAN 5 GHz	WWAN + WLAN 5 GHz + BT	WWAN + WLAN 5 GHz + BT	WWAN + BT	WWAN + BT	
Conditions	CELL Main2	WiFi Main ②	WiFi Sub	WiFi Main 4	WiFi Sub	WiFi Main ⑥	WiFi Sub	1+2+3	1+4+5	1+4+5+6	1+4+5+7	1+6	1+7	
Head	0.068	0.458	0.169	0.276	0.068	0.305	0.088	0.695	0.412	0.717	0.500	0.373	0.156	
Body	0.320	0.043	0.169	0.047	0.068	0.052	0.088	0.532	0.435	0.487	0.523	0.372	0.408	
Hotspot	0.438	0.073	0.169	0.075	0.068	0.083	0.088	0.680	0.581	0.664	0.669	0.521	0.526	

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because either the sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.6. Sum of the SAR for WWAN CELL Main2 & Wi-Fi Simultaneous 2G_5G State

		Stan	dalone SAR (V	Σ 1-g SAR (W/kg)		
	WWAN	WLAN:	2.4 GHz	WLAN 5 GHz		WWAN + WLAN 2.4 GHz + WLAN 5 GHz
RF Exposure Conditions	CELL Main2	WiFi Main	WiFi Sub	WiFi Main 4	WiFi Sub	1 + 2 + 3 + 4 + 5
Head	0.068	0.337	0.106	0.184	0.051	0.746
Body	0.320	0.042	0.106	0.025	0.051	0.544
Hotspot	0.438	0.077	0.106	0.044	0.051	0.716

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because either the sum of the 1-g SAR is < 1.6 W/kg or the SPLSR is < 0.04 for all circumstances that require SPLSR calculation.

12.7. Sum of the SAR for Wi-Fi Normal State & NFC

	Stai	ndalone SAR (Σ 10-g SAR (W/kg)		
RF Exposure	WLAN	5 GHz	NFC	WLAN 5 GHz + NFC	
Conditions	WiFi Main	WiFi Sub	NFC ③	1+2+3	
Extremity	0.489	0.372	0.501	1.362	

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because either the sum of the 10-g SAR is < 4 W/kg or the SPLSR is < 0.1 for all circumstances that require SPLSR calculation.

Appendixes

Refer to separated files for the following appendixes.

Appendix A: SAR Setup Photos

Appendix B: SAR System Check Plots

Appendix C: SAR Highest Test Plots

Appendix D: SAR Tissue Ingredients

Appendix E: SAR Probe Certificates

Appendix F: SAR Dipole Certificates

END OF REPORT