

SAR EVALUATION REPORT

FCC 47 CFR § 2.1093 IEEE Std 1528-2003

For

Cellular Phone with Bluetooth and WLAN Radio Model: A1586, A1549 FCC ID: BCG-E2816A

> Report Number: 14U17673-S1C Issue Date: 8/15/2014

Prepared for APPLE INC.
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REVISION HISTORY

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1. Attestation of Test Results

Applicant Name	APPLE INC.				
FCC ID	BCG-E2816A				
DUT Description	Cellular Phone with Bluetooth a	and WLAN Radio			
Exposure Category	General Population/Uncontrolled	d Exposure (1g SAR	limit: 1.6 W/kg)		
The highest reported	DE Evenes and Conditions		Equipment Class		
SAR	RF Exposure Conditions	Licensed	DTS	UNII	
	Head	1.18 W/kg	1.150 W/kg	<mark>0.490</mark> W/kg	
	Body-worn Accessory	1.18 W/kg	1.150 W/kg	<mark>0.404</mark> W/kg	
	Wireless Router (Hotspot)	1.18 W/kg	1.150 W/kg	<mark>0.404</mark> W/kg	
	Simultaneous Transmission	Head: 1.508 W/kg	Head: 1.508 W/kg	Head: 1.476 W/kg	
		Body: 1.583 W/kg	Body: 1.581 W/kg	Body: 1.583 W/kg	
Applicable Standards	FCC 47 CFR § 2.1093				
	Published RF exposure KDB procedures				
	IEEE Std 1528-2013				
Test Results	Pass				
Date tested	Date tested 6/19/2014 – 7/18/2014				

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government (NIST Handbook 150, Annex A). This report is written to support regulatory compliance of the applicable standards stated above.

Approved & Released By:

Bobby Bayani Senior Engineer

UL Verification Services Inc.

Prepared By:

Kenneth Mak

Laboratory Engineer

UL Verification Services Inc.

2. Test Specification, Methods and Procedures

The tests documented in this report were performed in accordance with FCC 47 CFR § 2.1093, IEEE STD 1528-2003, the following FCC Published RF exposure KDB procedures, and TCB workshop updates:

- o 447498 D01 General RF Exposure Guidance v05r02
- o 648474 D04 Handset SAR v01r02
- o 941225 D01 SAR test for 3G devices v02
- o 941225 D02 HSPA and 1x Advanced v02r02
- 941225 D03 SAR Test Reduction GSM GPRS EDGE v01
- 941225 D04 SAR for GSM E GPRS Dual Xfer Mode v01
- 941225 D05 SAR for LTE Devices v02r03
- 941225 D05A LTE Rel.10 KDB Inquiry Sheet v01
- 941225 D06 Hotspot Mode SAR v01r01
- o 248227 D01 SAR Meas for 802 11abg v01r02
- 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r03
- 865664 D02 SAR Reporting v01r01
- o 690783 D01 SAR Listings on Grants v01r03

3. Facilities and Accreditation

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

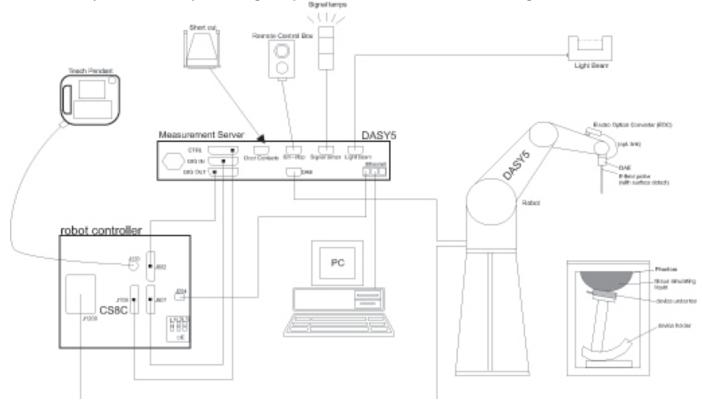
47173 Benicia Street	47266 Benicia Street
SAR Lab A	SAR Lab 1
SAR Lab B	SAR Lab 2
SAR Lab C	SAR Lab 3
SAR Lab D	SAR Lab 4
SAR Lab E	SAR Lab 5
SAR Lab F	
SAR Lab G	
SAR Lab H	

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at http://www.ccsemc.com.

4. SAR Measurement System & Test Equipment

4.1. SAR Measurement System

The DASY5 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 WinXP or Win7 and the DASY5 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.

4.2.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
Network Analyzer	Agilent	8753ES	MY40001647	7/11/2014
Network Analyzer	Agilent	E8363C	1391298J	12/3/2014
Dielectronic Probe kit	SPEAG	DAK-3.5	1082	9/10/2014
Dielectronic Probe kit	SPEAG	DAK-3.5 Short	SM DAK 200 BA	N/A
Thermometer	Control Company	4242	122529162	9/19/2014

System Check

System Check	Manufacturer	Type/Madal	Serial No.	Cal. Due Date
Name of Equipment		Type/Model		2 21 2 2112
Synthesized Signal Generator	HP	8665B	3744A01084	5/20/2015
Power Meter	Agilent	N1912A	MY50001018	8/23/2014
Power Sensor	Agilent	E9323A	MY53070005	5/1/2015
Power Sensor	Agilent	E9323A	US40411556	8/9/2014
Amplifier	MITEQ	AMF-4D-00400600-50-30P	1795093	N/A
Directional coupler	Werlatone	C8060-102	2149	N/A
DC Power Supply	AMETEK	XT 20-3	1318A00530	N/A
Synthesized Signal Generator	HP	8665B	3744A01155	3/12/2015
Power Meter	HP	437B	3125U11364	8/26/2014
Power Meter	HP	437B	3125U12345	7/29/2014
Power Sensor	HP	8481A	1926A27048	7/29/2014
Power Sensor	HP	8481A	2702A76223	9/17/2014
Amplifier	MITEQ	AMF-4D-00400600-50-30P	1795092	N/A
Directional coupler	Werlatone	C8060-102	2141	N/A
DC Power Supply	BK PRECISION	1611	215-02292	N/A
E-Field Probe	SPEAG	EX3DV4	3885	9/18/2014
E-Field Probe	SPEAG	EX3DV4	3751	11/21/2014
E-Field Probe	SPEAG	EX3DV4	3749	1/29/2015
E-Field Probe	SPEAG	EX3DV4	3901	2/25/2015
E-Field Probe	SPEAG	EX3DV4	3772	2/26/2015
E-Field Probe	SPEAG	EX3DV4	3686	3/18/2015
E-Field Probe	SPEAG	EX3DV4	3989	4/15/2015
E-Field Probe	SPEAG	EX3DV4	3990	4/15/2015
Data Acquisition Electronics	SPEAG	DAE4	1259	1/23/2015
Data Acquisition Electronics	SPEAG	DAE4	1357	2/17/2015
Data Acquisition Electronics	SPEAG	DAE4	1360	3/17/2015
Data Acquisition Electronics	SPEAG	DAE4	1433	4/14/2015
Data Acquisition Electronics	SPEAG	DAE4	1434	4/14/2015
Data Acquisition Electronics	SPEAG	DAE4	1239	4/15/2015
Data Acquisition Electronics	SPEAG	DAE3	500	5/15/2015
Data Acquisition Electronics	SPEAG	DAE4	1258	5/15/2015
System Validation Dipole	SPEAG	D750V3	1024	5/16/2015
System Validation Dipole	SPEAG	D835V2	4d142	9/17/2014
System Validation Dipole	SPEAG	D1750V2	1050	4/22/2015
System Validation Dipole	SPEAG	D1750V2	1053	8/27/2014
System Validation Dipole	SPEAG	D1900V2	5d140	4/23/2015
System Validation Dipole	SPEAG	D1900V2	5d163	9/17/2014
System Validation Dipole	SPEAG	D2450V2	748	2/18/2015
System Validation Dipole	SPEAG	D2450V2	706	5/20/2015
System Validation Dipole	SPEAG	D2600V2	1036	3/12/2015
System Validation Dipole	SPEAG	D5GHzV2	1003	2/26/2015
System Validation Dipole	SPEAG	D5GHzV2	1168	12/12/2014

Others

Name of Equipment	Manufacturer	Type/Model	Serial No.	Cal. Due Date
Base Station Simulator	R & S	CMU200	838114	7/23/2014
Base Station Simulator	R & S	CMW500	124593-ss	7/25/2014
Base Station Simulator	R & S	CMW500	113915-da	8/14/2014
Base Station Simulator	R & S	CMW500	135390-ws	7/3/2015
Base Station Simulator	R&S	CMW500	132911-tu	2/27/2015
Base Station Simulator	R & S	CMW500	103766-ly	8/19/2014
Base Station Simulator	R & S	CMW500	112268-rf	6/6/2015
Power Meter	Agilent	N1911A	MY53060009	5/5/2015
Power Sensor	Agilent	E9323A	US40411681	10/4/2014

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, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2003 is not required in SAR reports submitted for equipment approval.

6. Device Under Test (DUT) Information

6.1. DUT Description

The device is the next generation iPhone.

For operational and marketing reasons, there will be two models, A1586 and A1549.

Model A1586 is a mobile phone with multimedia functions (music, application support, and video), Cellular GSM/GPRS/EGPRS/CDMA2000 1x Advanced/EVDO Rev.A/EVDO Rev.B/WCDMA/HSPA+/DC-HSDPA/LTE FDD & Carrier Aggregation/TDD/TD-SCDMA radio, IEEE 802.11a/b/g/n/ac radio, Bluetooth radio and NFC. The rechargeable battery is not user accessible.

Model A1549 is identical to Model A1586 and has the same MLB as Model A1586, but with TD-LTE/TD-SCDMA components de-populated.

This device has two antennas. The Primary Cellular Antenna (LAT) is located on the bottom edge of the device and the Secondary Cellular Antenna (UAT) is located on the top edge of the device.

The device is capable of switching between the LAT and UAT based on signal strength.

The antenna switching is implemented with a physical, "break-before-make" switch such that only one antenna can be used for cellular transmission at a time.

There are three vendors of the WiFi/Bluetooth radio modules: Variant 1, Variant 2 and Variant 3 and they have the same mechanical outline, same on board antenna, matching circuit, antenna structure and same specification. Complete SAR evaluation is performed on the Variant 3 that has the highest SAR, and then, the test is repeated for the other variants at the highest peak SAR value.

Device Dimension	Overall (Length x Width): 138.1mm x 67mm Overall Diagonal: 147mm Display Diagonal: 120mm
Battery Back Cover	The rechargeable battery is not user accessible.
Battery Options	The rechargeable battery is not user accessible.
Accessory	Headset
Wireless Router (Hotspot)	Wi-Fi Hotspot mode permits the device to share its cellular data connection with other Wi-Fi-enabled devices. ☑ Mobile Hotspot (Wi-Fi 2.4 GHz with P _{Cell_ON} = P _{Low}) ☐ Mobile Hotspot (Wi-Fi 5 GHz)
AirPlay	AirPlay mode enabled devices transfer data directly between each other ☑ AirPlay (Wi-Fi 2.4 GHz) ☑ AirPlay (Wi-Fi 5 GHz)

6.2. Wireless Technologies

Wireless technologies	Frequency bands	Operating mode	Duty Cycle used for SAR testing
GSM	850, 1900	Voice (GMSK),	GSM Voice: 12.5%;
		GPRS (GMSK) and EGPRS (8PSK)	GPRS 1 Slot: 12.5%; 2 Slots: 25%
	GPRS Multi-Slot Class:	☐ Class 8 - One Up ☐ Class 10 - Two Up ☐	Class 12 - Four Up
	DTM (Dual Transfer Mo	de): Not support	
CDMA2000	BC0, BC1, BC10, and	1xRTT (Voice & Data)	1xRTT: 100%
	BC15	1xEV-DO Rel. 0	1xEV-DO Rel. 0: 100%
		1xEV-DO Rev. A	1xEV-DO Rev. B: 100%
		1xEV-DO Rev. B (BC0 only)	
	Does this device SV-DC) (1xRTT-1xEVDO)? ☐Yes ☐ No	
W-CDMA (UMTS)	Band V, IV, and II	UMTS Rel. 99 (Voice & Data)	Rel. 99: 100%
		HSDPA (Rel. 7, CAT 14)	
		HSUPA (Rel. 6, CAT 6)	
		DC-HSDPA (Rel. 8, CAT 24)	
		HSPA+ (Rel. 6, CAT 6)	
LTE (FDD)	Band 2 / 4 / 5/ 13 / 17	QPSK, 16QAM	100%
	/ 25 / 26	Rel. 10 Carrier Aggregation (1 Uplink and 2	
		Downlinks)	
	Does this device SV-LT	E (1xRTT-LTE)? ☐Yes ⊠ No	T
LTE (TDD)	Band 41	QPSK, 16QAM	63.3%
	(Only for model		
	A1586)		
Wi-Fi	2.4 GHz	802.11b	100%
		802.11g	
		802.11n (HT20)	
	5 GHz	802.11a	100%
		802.11n (HT20)	
		802.11n (HT40)	
		802.11ac (HT20)	
		802.11ac (HT40)	
		802.11ac (HT80)	
Bluetooth	2.4 GHz	Version 1.2	77.52% (DH5)
		Version 2.0 + EDR	
		Version 2.1 + EDR	
		Version 3.0 + HS	
		Version 4.0 LE	

6.3. Maximum Output Power

			Maximum Outp	ut Power (dBm)	
RF Air interface	Mode	He	ead	Во	dy
		UAT	LAT	UAT	LAT
	Voice	33.20	33.50	33.20	33.50
	GPRS 1 slot	33.20	33.50	33.20	33.50
GSM850	GPRS 2 slots	32.20	32.50	32.20	32.50
	EGPRS 1 slot	28.70	29.00	28.70	29.00
	EGPRS 2 slots	28.70	29.00	28.70	29.00
	Voice	29.90	30.00	29.90	28.80
	GPRS 1 slot	29.90	30.00	29.90	28.80
GSM1900	GPRS 2 slots	27.10	29.50	28.90	25.80
	EGPRS 1 slot	27.40	28.00	27.40	28.00
	EGPRS 2 slots	27.40	28.00	27.40	26.80
	R99	24.70	25.00	24.70	25.00
W-CDMA	HSDPA	24.70	25.00	24.70	25.00
Band V	HSUPA	24.70	25.00	24.70	25.00
	DC-HSDPA	24.70	25.00	24.70	25.00
	R99	19.90	25.00	23.10	19.00
W-CDMA	HSDPA	19.90	25.00	23.10	19.00
Band IV	HSUPA	19.90	25.00	23.10	19.00
	DC-HSDPA	19.90	25.00	23.10	19.00
	R99	20.10	24.25	23.30	18.50
W-CDMA	HSDPA	20.10	24.25	23.30	18.50
Band II	HSUPA	20.10	24.25	23.30	18.50
	DC-HSDPA	20.10	24.25	23.30	18.50
	1xRTT	24.70	25.00	24.70	25.00
CDMA BC0	1xEVDO Rel. 0	24.70	25.00	24.70	25.00
CDIVIA BOO	1xEVDO Rev. A	24.70	25.00	24.70	25.00
	1xEVDO Rev. B	21.40	21.70	21.40	21.70
	1xRTT	20.10	24.25	23.30	18.50
CDMA BC1	1xEVDO Rel. 0	20.10	24.25	23.30	18.50
	1xEVDO Rev. A	20.10	24.25	23.30	18.50
	1xRTT	24.70	25.00	24.70	25.00
CDMA BC10	1xEVDO Rel. 0	24.70	25.00	24.70	25.00
	1xEVDO Rev. A	24.70	25.00	24.70	25.00
	1xRTT	19.90	25.00	23.10	19.00
CDMA BC15	1xEVDO Rel. 0	19.90	25.00	23.10	19.00
	1xEVDO Rev. A	19.90	25.00	23.10	19.00

		Maximum Output Power (dBm)							
RF Air interface	Mode	He	ead	Body					
		UAT	LAT	UAT	LAT				
LTE Band 2	QPSK	20.10	23.75	23.40	18.50				
LTE Band 4	QPSK	19.90	24.00	23.10	19.00				
LTE Band 5	QPSK	23.70	24.00	23.70	24.00				
LTE Band 13	QPSK	23.70	24.00	23.70	24.00				
LTE Band 17	QPSK	23.70	24.00	23.70	24.00				
LTE Band 25	QPSK	20.10	23.50	23.40	18.50				
LTE Band 26	QPSK	23.00	23.00	23.00	23.00				
LTE Band 41	QPSK	22.50	22.50	22.50	19.00				

		Maximum Outp	ut Power (dBm)		
RF Air interface	Mode	P _{Cell_ON} (Low Power)	P _{Cell_OFF} (Max Power)		
Wi-Fi 2.4 GHz	802.11b/g/n	15.00	18.00		
Bluetooth		12	.00		
RF Air interface	Mode	Maximum Outp	ut Power (dBm)		
KF All Illellace	Mode	Head	Body		
	802.11a	12.00	18.00		
Wi-Fi 5.2 GHz	802.11n/ac HT20	12.00	18.00		
WI-FI 5.2 GHZ	802.11n/ac HT40	12.00	16.00		
	802.11ac HT80	12.00	15.00		
	802.11a	11.00	17.00		
W. E. E O OLL-	802.11n/ac HT20	11.00	17.00		
Wi-Fi 5.3 GHz	802.11n/ac HT40	11.00	17.00		
	802.11ac HT80	11.00	14.50		
	802.11a	9.00	14.50		
W. E. E. C. L.	802.11n/ac HT20	9.00	14.50		
Wi-Fi 5.5 GHz	802.11n/ac HT40	9.00	14.50		
	802.11ac HT80	9.00	12.50		
	802.11a	11.50	17.00		
W. E. E. O. O	802.11n/ac HT20	11.50	17.00		
Wi-Fi 5.8 GHz	802.11n/ac HT40	11.50	15.00		
	802.11ac HT80	11.50	14.00		

6.4. Simultaneous Transmission Condition

RF Exposure Condition	Сар	pable Transmit Configurations
Head	1.	GSM 850 / 1900 Voice + Wi-Fi 2.4 / 5GHz
	2.	GSM 850 / 1900 (GPRS/EDGE) + Wi-Fi 2.4 / 5GHz
	3.	CDMA 1xRTT BC0 / BC1 / BC10 / BC15 + Wi-Fi 2.4 / 5GHz
	4.	CDMA 1xEV-DO BC0 / BC1 / BC10 / BC15 + Wi-Fi 2.4 / 5GHz
	5.	WCDMA Band V/IV/II + Wi-Fi 2.4/5GHz
	6.	LTE B2 / B4 / B5/ B13 / B17 / B25 / B26 + Wi-Fi 2.4 / 5GHz
	7.	LTE B2 / B4 / B5/ B13 / B17 / B25 / B26 / B41+ Wi-Fi 2.4 / 5GHz (Only for model A1586)
Body-worn Accessory	1.	GSM 850 / 1900 Voice + Wi-Fi 2.4 / 5GHz + BT
	2.	GSM 850 / 1900 Voice + BT
	3.	GSM 850 / 1900 (GPRS/EDGE) + Wi-Fi 2.4 / 5GHz + BT
	4.	GSM 850 / 1900 (GPRS/EDGE) + BT
	5.	CDMA 1xRTT BC0 / BC1 / BC10 / BC15 + Wi-Fi 2.4 / 5GHz + BT
	6.	CDMA 1xRTT BC0 / BC1 / BC10 / BC15 + BT
	7.	CDMA 1xEV-DO BC0 / BC1 / BC10 / BC15 + Wi-Fi 2.4 / 5GHz + BT
	8.	CDMA 1xEV-DO BC0 / BC1 / BC10 / BC15 + BT
	9.	WCDMA Band V / IV / II + Wi-Fi 2.4 / 5GHz + BT
	10.	WCDMA Band V / IV / II + BT
	11.	LTE B2 / B4 / B5/ B13 / B17 / B25 / B26 + Wi-Fi 2.4 / 5GHz + BT
	12.	LTE B2 / B4 / B5/ B13 / B17 / B25 / B26 / B41 + Wi-Fi 2.4 / 5GHz + BT (Only for model A1586)
	13.	LTE B2 / B4 / B5/ B13 / B17 / B25 / B26 + BT
	14.	LTE B2 / B4 / B5/ B13 / B17 / B25 / B26 / B41 + BT(Only for model A1586)
Wireless Router (Hotspot)	1.	GSM 850 / 1900 (GPRS/EDGE) + Wi-Fi 2.4GHz
	2.	CDMA 1xRTT BC0 / BC1 / BC10 / BC15 + Wi-Fi 2.4GHz
	3.	CDMA 1xEV-DO BC0 / BC1 / BC10 / BC15 + Wi-Fi 2.4GHz
	4.	WCDMA Band V / IV / II + Wi-Fi 2.4GHz
	5.	LTE B2 / B4 / B5/ B13 / B17 / B25 / B26 + Wi-Fi 2.4GHz
	6.	LTE B2 / B4 / B5/ B13 / B17 / B25 / B26 / B41 + Wi-Fi 2.4GHz (Only for model A1586)

Notes

- 1. Wi-Fi only 2.4GHz supports Hotspot.
- 2. GPRS/EDGE, CDMA, WCDMA, LTE support Hotspot.
- 3. VoIP is supported in CDMA, LTE, WCDMA, GPRS, Wi-Fi 2.4GHz & 5GHz.
- 4. Wi-Fi 2.4GHz Radio cannot transmit simultaneously with Bluetooth Radio.
- 5. Wi-Fi 2.4GHz is using P_{Cell_ON} power table when cellular transmitter is on.
- 6. Wi-Fi 5GHz uses Head and Body Power Tables (Section 8.7)

6.5. General LTE SAR Test and Reporting Considerations

Item	Description										
Frequency range, Channel Bandwidth,		Frequency range: 1850 - 1910 MHz									
Numbers and Frequencies	Band 2			Channel I	Bandwidth						
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz				
	Low	18700	18675/	18650/	18625/	18615/	18607/				
		/1860	1857.5	1855	1852.5	1851.5	1850.7				
	Mid	18900/	18900/	18900/	18900/	18900/	18900/				
		1880	1880	1880	1880	1880	1880				
	High	19100/	19125/	19150/	19175/	19185/	19193/				
		1900	1902.5	1905	1907.5	1908.5	1909.3				
		Frequency range: 1710 - 1755 MHz									
	Band 4	Channel Bandwidth									
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz				
	Low	20050/	20025/	20000/	19975/	19965/	19957/				
		1720	1717.5	1715	1712.5	1711.5	1710.7				
	Mid	20175/	20175/	20175/	20175/	20175/	20175/				
		1732.5	1732.5	1732.5	1732.5	1732.5	1732.5				
	High	20300/	20325/	20350/	20375/	20385/	20393/				
		1745	1747.5	1750	1752.5	1753.5	1754.3				
			Fr	equency range	e: 824 - 849 M	Hz					
	Band 5			Channel I	Bandwidth						
		20 MHz	15 MHz	10 MHz	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/	20625/	20635/	20643/				
				844	846.5	847.5	848.3				
			Fr	equency range		Hz					
	Band 13			Channel I	Bandwidth						
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz				
	Low				23205/ 779.5						
	Mid			23230/	23230/						
				782	782						
	High				23255/						
					784.5						
			Fr	equency range	e: 704 - 716 M	Hz					
	Band 17			Channel I	Bandwidth						
		20 MHz	15 MHz	10 MHz	5 MHz	3 MHz	1.4 MHz				
	Low				23755/ 706.5						
	Mid			23790/ 710	23790/ 710						
	High				23825/ 713.5						

General LTE SAR Test and Reporting Considerations (Continued)

Frequency range, Channel Bandwidth,		Frequency range: 1850 - 1915 MHz										
Numbers and Frequencies	Band 25				Channel	Bandwidth						
		20 MHz	15 MHz	Z	10 MHz	5 MHz	: 3	MHz	1.4 MH			
	Low	26140/	26115/	′	26090/	26065		6055/	26047/			
		1860	1857.5		1855	1852.5		351.5	1850.7			
	Mid	26365/	26365/		26365/	26365		6365/	26365/			
		1882.5	1882.5		1882.5	1882.5		382.5	1882.5			
	High	26590/	26615/		26640/	26665		6675/	26683/			
		1905	1907.5		1910	1912.5		913.5	1914.3			
		Frequency range: 814 – 824 MHz (Channels straddle part 22 and part 90 not supported)										
	Band 26		(Channe	is strac				ported)				
		Channel Bandwidth										
		20 MHz	15 MHz	<u>Z</u>	10 MHz	5 MHz		MHz	1.4 MH			
	Low							6705/				
					00=101	2222		20.3				
	Mid				26740/	26865		6865/				
	10.1				819	821.3		21.3				
	High							7025/				
				Гистин		0400 00		22.3				
	D 144	Frequency range: 2496 - 2690 MHz										
	Band 41	00.000			Channel Bandwidth				4 4 5 41 1			
		20 MHz	15 MHz		10 MHz	5 MHz	: 3	MHz	1.4 MH			
	Low	39750/	39725/		39700/							
	1 141-1	2506.0	2503.5		2501							
	Low-Mid	40185/	40173/		40160/							
	Mid	2549.5	2548.3		2547.0							
	iviid	40620/ 2593.0	40620/ 2593.0		40620/ 2593.0							
	Mid-High	41055/	41068/		41080/							
	Miu-High	2636.5	2547.8		2639.0							
	High	41490/	41515/		41540/							
	riigii	2680.0	2682.5		2685.0							
TE transmitter and automa	LTC con tro					\ AT /F)	-t\ T	h			
LTE transmitter and antenna		nsmit from eith	•		•	,	•	•				
mplementation	_	implemented				e-make" sv	vitch such	that only	one			
	antenna can	be used for L	TE transmi	ission a	at a time.							
Maximum power reduction (MPR)	Та	ble 6.2.3-1: M	aximum Po	wer Re	eduction (M	PR) for Pov	ver Class	3				
		-							. 1			
	Modulatio	on Ch	annei bandw	iath / I i	ransmission	bandwidth ((HB)	MPR (dB	"			
		1.4	3.0	5	10	15	20	1				
		MHz	MHz	MHz	MHz	MHz	MHz					
	QPSK	>5	>4	>8	> 12	> 16	> 18	≤1	_			
	16 QAM 16 QAM		≤ 4 > 4	≤8 >8	≤ 12 > 12	≤ 16 > 16	≤ 18 > 18	≤ 1 ≤ 2	_			
	TO CAM	>0	74	/0	>12	> 10	> 10	2 2				
	MPR Built-in	by design										
	A-MPR (add	litional MPR)	was disable	d durir	ng SAR tes	ting						
Spectrum plots for RB configurations		onfigured bas					R and pov	ver measi	rements:			
		pectrum plots										
	-	Jostiani pioto	ioi odoli i\L	. u.i.ouc	anon and O	ioot ooinig	a. a.ioii ai	o not molu	aca iii iiii			
	SAR report.											

6.6. LTE (TDD) Considerations

According to KDB 941225 D05 SAR for LTE Devices v02r03, 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.

SAR was tested with the highest transmission duty factor (63.33%) using Uplink-downlink configuration 0 and Special subframe configuration 7.

LTE TDD Band 41 supports 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).

	١	lormal cyclic prefix in do	ownlink	Extended cyclic prefix in downlink				
Special subframe	DwPTS	UpPTS		DwPTS	UpF	PTS		
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	$19760 \cdot T_{\rm s}$			$20480 \cdot T_{\rm s}$	$2192 \cdot T_{\rm s}$	2560·T		
2	$21952 \cdot T_{\rm s}$	$2192 \cdot T_{\rm s}$	$2560 \cdot T_{\rm s}$	$23040 \cdot T_{\rm s}$	21 <i>)</i> 2 1 _s	2500 1 _s		
3	$24144 \cdot T_{\rm s}$			$25600 \cdot T_{\rm s}$				
4	$26336 \cdot T_{\rm s}$			$7680 \cdot T_{\rm s}$				
5	$6592 \cdot T_{\rm s}$			$20480 \cdot T_{\rm s}$	$4384 \cdot T_{\rm s}$	5120. <i>T</i>		
6	$19760 \cdot T_{\rm s}$			$23040 \cdot T_{\rm s}$	4364·1 _s	$5120 \cdot T_{\mathrm{s}}$		
7	$21952 \cdot T_{\rm s}$	$4384 \cdot T_{\rm s}$	$5120 \cdot T_{\rm s}$	$12800 \cdot T_{\rm s}$				
8	$24144 \cdot T_{\rm s}$			-	-	-		
9	$13168 \cdot T_{\rm s}$			-	-	-		

Table 4.2-2: Uplink-downlink configurations.

Uplink-downlink	Downlink-to-				Sı	ubframe	e numb	er			
configuration	Uplink Switch- 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
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	D	S	U	U	U	D	S	U	U	D

Calculated Duty Cycle

Calculated Duty (alculated Duty Cycle											
Uplink-	Downlink-to-				Sı	ubframe	e Numb	per				Calculated
Downlink Configuration	Uplink Switch- point Periodicity	0	1	2	3	4	5	6	7	8	9	Duty Cycle (%)
0	5 ms	D	S	U	U	U	D	S	U	U	U	63.33
1	5 ms	D	S	U	U	D	D	S	U	U	D	43.33
2	5 ms	D	S	U	D	D	D	S	U	D	D	23.33
3	10 ms	D	S	U	U	U	D	D	D	D	D	31.67
4	10 ms	D	S	U	U	D	D	D	D	D	D	21.67
5	10 ms	D	S	U	D	D	D	D	D	D	D	11.67
6	5 ms	D	S	U	U	U	D	S	U	U	D	53.33

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

Example for Calculated Duty Cycle for Uplink-Downlink Configuration 0: Calculated Duty Cycle = 5120 x [1/(15000 x 2048)] x 2 + 6 ms = 63.33% where

 $T_s = 1/(15000 \times 2048)$ seconds

Report No.: 14U17673-S1C Issue Date: 8/15/2014 **Antenna Dimensions and Separation Distances** 6.7. Refer to separate filing document.

7. RF Exposure Conditions (Test Configurations)

Refer to "Antenna Dimensions and Separation Distances" for the specific details of the antenna-to-antenna and antenna-to-edge(s) distances.

7.1. **Head**

For GSM, W-CDMA, CDMA, LTE and Wi-Fi/BT

	SAR	
Test Configurations	Required	Note
Left Touch	Yes	
Left Tilt (15°)	Yes	
Right Touch	Yes	
Right Tilt (15°)	Yes	

7.2. Body-worn Accessory

The Body-worn accessory test configurations were tested using a conservative minimum test separation distance of 5 mm.

For WWAN and LTE (LAT/Primary Antenna)

Test Configurations	Antenna-to- edge/surface	SAR Required	Note
Rear	<25 mm	Yes	
Front	<25 mm	Yes	

For WWAN and LTE (UAT/Secondary Antenna)

Test Configurations	Antenna-to- edge/surface	SAR Required	Note
Rear	<25 mm	Yes	Total
Front	<25 mm	Yes	

For Wi-Fi/BT

Test Configurations	Antenna-to- edge/surface	SAR Required	Note
Rear	<25 mm	Yes	
Front	<25 mm	Yes	

7.3. Wireless Router (Hotspot)

Per KDB inquiry submitted in the manufacturer KDB titled Detect Mode, hotspot operation SAR test cases are covered by worse-cases in Body-worn SAR at 5 mm separation distance.

For WWAN and LTE (LAT/Primary Antenna)

Test Configurations	Antenna-to- edge/surface	SAR Required	Note
Rear	<25 mm	Yes	
Front	<25 mm	Yes	
Edge 1 (Top)	>25 mm	No	SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot Mode SAR
Edge 2 (Right)	0 mm	Yes	
Edge 3 (Bottom)	0 mm	Yes	
Edge 4 (Left)	0 mm	Yes	

For WWAN, LTE, & 2.4GHz/Bluetooth (UAT/Secondary Antenna)

Test Configurations	Antenna-to- edge/surface	SAR Required	Note
Rear	<25 mm	Yes	
Front	<25 mm	Yes	
Edge 1 (Top)	0 mm	Yes	
Edge 2 (Right)	0 mm	Yes	
Edge 3 (Bottom)	>25 mm	No	SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 941225 D06 Hotspot Mode SAR
Edge 4 (Left)	0 mm	Yes	

7.4. Airplay

For Wi-Fi 2.4GHz (UAT/Secondary Antenna)

			, , , , , , , , , , , , , , , , , , ,
Test Configurations	Antenna-to- edge/surface	SAR Required	Note
Rear	<25 mm	Yes	
Front	<25 mm	Yes	
Edge 1 (Top)	0 mm	Yes	
Edge 2 (Right)	0 mm	Yes	
Edge 3 (Bottom)	>25 mm	No	SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 648474 D04 Handset SAR
Edge 4 (Left)	0 mm	Yes	

For Wi-Fi 5GHz

	o									
	Antenna-to-	SAR								
Test Configurations	edge/surface	Required	Note							
Rear	<25 mm	Yes								
Front	<25 mm	Yes								
Edge 1 (Top)	<25 mm	Yes								
Edge 2 (Right)	>25 mm	No	SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 648474 D04 Handset SAR							
Edge 3 (Bottom)	>25 mm	No	SAR is not required because the distance from the antenna to the edge is > 25 mm as per KDB 648474 D04 Handset SAR							
Edge 4 (Left)	<25 mm	Yes								

8. Conducted Output Power Measurements

The proprietary logic is used to determine when head/body power table is used.

8.1. GSM850 and GSM1900

GSM850

GSM (GMSK) - Voice Mode

		F	Avg Power (dBm)						
Band	Ch No.	Freq. (MHz)	HE	AD	BODY				
		(1711 12)	UAT	LAT	UAT	LAT			
850	128	824.2	33.20	33.00	32.20	31.80			
	190	836.6	33.20	33.00	32.20	31.80			
	251	848.8	33.20	33.00	32.20	31.80			

GPRS (GMSK) - Coding Scheme: CS1

J. 115 (J.115	it, couning t	Jonethie. OO1									
		Freq.		HEAD				BODY			
Band	Ch No.	(MHz)	U	ΑΤ	LAT		UAT		LAT		
		(111112)	1 slot	2 slots	1 slot	2 slots	1 slot	2 slots	1 slot	2 slots	
	Burst Power (dBm)										
	128	824.2	33.20	32.20	32.90	31.80	33.20	32.20	32.90	31.80	
850	190	836.6	33.20	32.20	33.00	31.80	33.20	32.20	33.00	31.80	
	251	848.8	33.20	32.20	33.10	31.80	33.20	32.20	33.10	31.80	
				Fram	ne Power (dB	sm)					
	128	824.2	24.17	26.18	23.87	25.78	24.17	26.18	23.87	25.78	
850	190	836.6	24.17	26.18	23.97	25.78	24.17	26.18	23.97	25.78	
	251	848.8	24.17	26.18	24.07	25.78	24.17	26.18	24.07	25.78	

EGPRS (8PSK) - Coding Scheme: MCS5

		F	HEAD				BODY				
Band	Ch No.	Freq. (MHz)	U	ΑΤ	L/	LAT		UAT		AT	
		(1711 12)	1 slot	2 slots	1 slot	2 slots	1 slot	2 slots	1 slot	2 slots	
Burst Power (dBm)											
	128	824.2	28.70	28.60	29.00	29.00	28.70	28.60	29.00	29.00	
850	190	836.6	28.70	28.70	29.00	28.90	28.70	28.70	29.00	28.90	
	251	848.8	28.70	28.70	29.00	28.90	28.70	28.70	29.00	28.90	
				Fran	ne Power (dB	sm)					
	128	824.2	19.67	22.58	19.97	22.98	19.67	22.58	19.97	22.98	
850	190	836.6	19.67	22.68	19.97	22.88	19.67	22.68	19.97	22.88	
	251	848.8	19.67	22.68	19.97	22.88	19.67	22.68	19.97	22.88	

Notes:

The worst-case configuration and mode for SAR testing is determined to be as follows:

- Head & Body-worn Accessory: GMSK Voice Mode
- Hotspot mode: GMSK (GPRS) mode with 2 time slots, based on the output power measurements above
- SAR is not required for EGPRS (8PSK) mode because its output power is less than that of GPRS Mode

GSM1900

GSM (GMSK) - Voice Mode

		F	Avg Power (dBm)						
Band	Ch No.	Freq. (MHz)	HE	AD	BODY				
		(1411 12)	UAT	LAT	UAT	LAT			
	512	1850.2	29.90	29.80	29.90	28.70			
1900	661	1880.0	29.90	29.70	29.90	28.70			
	810	1909.8	29.70	29.90	29.70	28.70			

GPRS (GMSK) - Coding Scheme: CS1

			HEAD				BODY			
Band	Ch No.	Freq.	U	ΑT	L/	LAT		UAT		\ Τ
Danu	CITINO.	(MHz)	1 slot	2 slots	1 slot	2 slots	1 slot	2 slots	1 slot	2 slots
				Burst Pov	wer (dBm)			Burst Pov	ver (dBm)	
	512	1850.2	29.90	27.10	29.80	29.40	29.90	28.90	28.70	25.60
1900	661	1880.0	29.90	27.10	29.80	29.40	29.90	28.90	28.70	25.60
	810	1909.8	29.70	27.10	29.80	29.40	29.70	28.80	28.70	25.80
				Frame Po	wer (dBm)			Frame Po	wer (dBm)	
	512	1850.2	20.87	21.08	20.77	23.38	20.87	22.88	19.67	19.58
1900	661	1880.0	20.87	21.08	20.77	23.38	20.87	22.88	19.67	19.58
	810	1909.8	20.67	21.08	20.77	23.38	20.67	22.78	19.67	19.78

EGPRS (8PSK) - Coding Scheme: MCS5

Ì				HEAD				BODY			
Band	Ch No.	Freq.	U	AT	L	LAT		AT	LAT		
Danu	CITINO.	(MHz)	1 slot	2 slots	1 slot	2 slots	1 slot	2 slots	1 slot	2 slots	
			Burst Power (dBm)					Burst Pov	ver (dBm)		
	512	1850.2	27.40	27.40	28.00	27.90	27.40	27.20	27.00	26.80	
1900	661	1880.0	27.40	27.40	28.00	27.90	27.40	27.20	27.00	26.80	
	810	1909.8	27.30	27.40	28.00	27.90	27.30	27.20	27.00	26.80	
				Frame Po	wer (dBm)			Frame Po	wer (dBm)		
	512	1850.2	18.37	21.38	18.97	21.88	18.37	21.18	17.97	20.78	
1900	661	1880.0	18.37	21.38	18.97	21.88	18.37	21.18	17.97	20.78	
	810	1909.8	18.27	21.38	18.97	21.88	18.27	21.18	17.97	20.78	

Notes:

The worst-case configuration and mode for SAR testing is determined to be as follows:

- Head & Body-worn Accessory: GMSK Voice Mode
- · Hotspot mode: GMSK (GPRS) mode with 2 time slots, based on the output power measurements above
- SAR is not required for EGPRS (8PSK) mode on UAT Body and LAT Head because its output power is less than that of GPRS Mode
- SAR is required for EGPRS (8PSK) mode on UAT Head and LAT Body because its output power is greater than that of GPRS Mode

8.2. W-CDMA Band V, IV, and II

Release 99

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The DUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7).

Mode	Subtest	Rel99
	Loopback Mode	Test Mode 1
WCDMA Conoral Sottings	Rel99 RMC	12.2kbps RMC
WCDMA General Settings	Power Control Algorithm	Algorithm2
	βc/βd	8/15

Measured Results

			Freq.		Avg Pwr (dBm)				
Band	Mode	UL Ch No.	(MHz)	HEAD		BODY			
				UAT	LAT	UAT	LAT		
\\\ OD\\\\	D-1-00	4132	826.4	24.00	25.00	24.00	25.00		
W-CDMA Band V	Rel 99 (RMC, 12.2 kbps)	4183	836.6	24.00	25.00	24.00	25.00		
Barra V	(TMO, 12.2 Ropo)	4233	846.6	24.00	25.00	24.00	25.00		
\\/ CD\\A	5.400	1312	1712.4	19.80	25.00	23.10	19.00		
W-CDMA Band IV	Rel 99 (RMC, 12.2 kbps)	1413	1732.6	19.80	25.00	23.10	19.00		
Banary	(INIO, 12.2 KDps)	1513	1752.6	19.90	25.00	23.00	19.00		
\\\ OD\\\\	D-100	9262	1852.4	19.90	24.25	23.30	18.50		
W-CDMA Band II	Rel 99 (RMC, 12.2 kbps)	9400	1880.0	20.10	24.25	23.30	18.50		
		9538	1907.6	20.00	24.25	23.30	18.50		

HSDPA

The following 4 Sub-tests were completed according to Release 7 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

	Mode	HSDPA	HSDPA	HSDPA	HSDPA			
	Subtest	1	2	3	4			
	Loopback Mode	Test Mode 1						
	Rel99 RMC	12.2kbps RMC						
	HSDPA FRC	H-Set1						
W-CDMA	Power Control Algorithm	Algorithm 2						
	βc	2/15	12/15	15/15	15/15			
General	βd	15/15	15/15	8/15	4/15			
Settings	Bd (SF)	64		<u>.</u>				
	βc/βd	2/15	12/15	15/8	15/4			
	βhs	4/15	24/15	30/15	30/15			
	MPR (dB)	0	1	1.5	1.5			
	D _{ACK}	8						
	D _{NAK}	8						
HSDPA	DCQI	8						
Specific	Ack-Nack repetition factor	3						
Settings	CQI Feedback (Table 5.2B.4)	4ms						
	CQI Repetition Factor (Table 5.2B.4)	2						
	Ahs =βhs/βc	30/15	•		•			

Measured Results

			Freq.		Avg Pw	vr (dBm)		
Band	Mode	UL Ch No.	(MHz)	HE	AD	ВО	DY	
			, ,	UAT	LAT	UAT	LAT	
		4132	826.4	23.69	23.84	23.69	23.84	
	Subtest 1	4183	836.6	23.60	23.95	23.60	23.95	
		4233	846.6	23.70	23.87	23.70	23.87	
		4132	826.4	23.25	23.97	23.25	23.97	
	Subtest 2	4183	836.6	23.24	23.98	23.24	23.98	
W-CDMA		4233	846.6	23.42	24.00	23.42	24.00	
Band V		4132	826.4	23.26	23.90	23.26	23.90	
	Subtest 3	4183	836.6	23.12	23.63	23.12	23.63	
		4233	846.6	23.44	23.48	23.44	23.48	
		4132	826.4	23.26	23.53	23.26	23.53	
	Subtest 4	4183	836.6	23.12	23.55	23.12	23.55	
		4233	846.6	23.30	23.60	23.30	23.60	
		1312	1712.4	18.80	23.63	22.00	18.00	
	Subtest 1	1413	1732.6	18.71	23.83	21.88	18.00	
		1513	1752.6	18.79	23.46	22.10	18.00	
		1312	1712.4	18.54	23.66	21.63	18.00	
	Subtest 2	1413	1732.6	18.77	24.00	21.66	18.00	
W-CDMA		1513	1752.6	18.98	23.66	21.71	18.00	
Band IV	Subtest 3	1312	1712.4	18.30	23.20	21.52	17.50	
		1413	1732.6	18.39	23.67	21.64	18.00	
		1513	1752.6	18.51	23.19	21.64	17.60	
		1312	1712.4	18.30	23.18	21.61	17.50	
	Subtest 4	1413	1732.6	18.32	23.17	21.63	17.70	
		1513	1752.6	18.51	23.53	21.65	17.60	
		9262	1852.4	18.40	23.21	22.23	17.10	
	Subtest 1	9400	1880.0	18.80	23.18	22.29	17.50	
		9538	1907.6	18.90	23.20	22.28	17.20	
		9262	1852.4	18.80	23.25	22.07	17.00	
	Subtest 2	9400	1880.0	18.80	23.23	22.15	17.00	
W-CDMA		9538	1907.6	18.40	22.91	22.09	17.10	
Band II		9262	1852.4	18.40	22.26	22.11	16.90	
	Subtest 3	9400	1880.0	18.30	22.78	22.14	17.00	
		9538	1907.6	18.30	22.42	22.12	16.60	
		9262	1852.4	18.30	22.75	21.90	16.60	
	Subtest 4	9400	1880.0	18.30	22.79	22.17	17.00	
		9538	1907.6	18.70	22.44	22.12	16.80	

HSPA (HSDPA & HSUPA)

The following 5 Sub-tests were completed according to Release 6 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

	Mode	HSPA	HSPA	HSPA	HSPA	HSPA			
	Subtest	1	2	3	4	5			
	Loopback Mode	Test Mode 1							
	Rel99 RMC	12.2kbps RMC							
	HSDPA FRC	H-Set1							
	HSUPA Test	HSUPA Loopba	ick						
	Power Control Algorithm	Algorithm2							
\A/ODA4A	βc	11/15	6/15	15/15	2/15	15/15			
WCDMA	βd	15/15	15/15	9/15	15/15	15/15			
General Settings	βec	209/225	12/15	30/15	2/15	24/15			
Settings	βc/βd	11/15	6/15	15/9	2/15	15/15			
	βhs	22/15	12/15	30/15	4/15	30/15			
				47/15					
	βed	1309/225	94/75	47/15	56/75	134/15			
	CM (dB)	1.0	3.0	2.0	3.0	1.0			
	MPR (dB)	0	2	1	2	0			
	DACK	8							
	DNAK	8							
HSDPA	DCQI	8							
Specific	Ack-Nack repetition factor	3							
Settings	CQI Feedback (Table 5.2B.4)	4ms							
	CQI Repetition Factor (Table 5.2B.4)	2							
	Ahs = βhs/βc	30/15							
	D E-DPCCH	6	8	8	5	7			
	DHARQ	0	0	0	0	0			
	AG Index	20	12	15	17	21			
	ETFCI (from 34.121 Table C.11.1.3)	75	67	92	71	81			
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9			
HSUPA Specific Settings	Reference E TFCIs	E-TFCI 11 E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71			E-TFCI 11 E-TFCI PO 4 E-TFCI 67 E-TFCI PO 18 E-TFCI 71				
		E-TFCI PO 23 E-TFCI 75 E-TFCI PO 26 E-TFCI 81 E-TFCI PO 27		E-TFCI 11 E-TFCI PO 4 E-TFCI 92 E-TFCI PO 18	E-TFCI PO 23 E-TFCI 75 E-TFCI PO 26 E-TFCI 81 E-TFCI PO 27				

Measured Results

			Freq.			r (dBm)	
Band	Mode	UL Ch No.	(MHz)	HE	AD	BC	DY
			(···· :=)	UAT	LAT	UAT	LAT
		4132	826.4	23.66	23.74	23.66	23.74
	Subtest 1	4183	836.6	23.51	23.67	23.51	23.67
		4233	846.6	23.65	23.65	23.65	23.65
		4132	826.4	23.48	23.61	23.48	23.61
	Subtest 2	4183	836.6	23.61	23.69	23.61	23.69
		4233	846.6	23.53	23.75	23.53	23.7
\\\ CD\\\\		4132	826.4	23.56	23.73	23.56	23.73
W-CDMA Band V	Subtest 3	4183	836.6	23.53	23.74	23.53	23.7
Danu v		4233	846.6	23.57	23.51	23.57	23.5
		4132	826.4	23.60	23.66	23.60	23.60
	Subtest 4	4183	836.6	23.52	23.50	23.52	23.50
		4233	846.6	23.68	23.51	23.68	23.5
Ī		4132	826.4	23.67	23.74	23.67	23.7
	Subtest 5	4183	836.6	23.51	23.72	23.51	23.7
		4233	846.6	23.59	23.74	23.59	23.7
		1312	1712.4	18.60	23.48	22.00	17.8
	Subtest 1	1413	1732.6	18.53	23.81	21.98	17.8
		1513	1752.6	18.56	23.60	22.10	17.8
		1312	1712.4	17.88	23.55	22.06	16.7
	Subtest 2	1413	1732.6	18.01	23.92	22.09	16.8
		1513	1752.6	18.10	23.54	21.90	16.9
ŀ	Subtest 3	1312	1712.4	17.37	23.53	22.09	15.9
W-CDMA		1413	1732.6	17.38	23.62	22.08	16.0
Band IV		1513	1752.6	17.67	23.60	22.00	16.1
•		1312	1712.4	18.34	23.56	21.95	17.1
	Subtest 4	1413	1732.6	18.36	23.58	21.98	17.0
		1513	1752.6	18.57	23.48	21.95	17.3
ľ		1312	1712.4	18.32	23.56	22.09	17.5
	Subtest 5	1413	1732.6	18.38	23.60	22.08	17.3
		1513	1752.6	18.57	23.60	22.02	17.4
Ī		9262	1852.4	18.80	22.67	22.28	17.20
	Subtest 1	9400	1880.0	18.80	22.96	22.25	17.4
		9538	1907.6	18.90	22.80	22.27	17.3
Ī		9262	1852.4	18.30	22.68	22.25	16.9
	Subtest 2	9400	1880.0	18.40	23.03	22.24	16.4
		9538	1907.6	18.30	22.85	22.24	16.4
\\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		9262	1852.4	17.60	22.67	22.26	15.7
W-CDMA	Subtest 3	9400	1880.0	17.80	23.00	22.26	15.70
Band II		9538	1907.6	18.10	22.84	22.19	15.80
		9262	1852.4	18.60	22.67	22.17	16.40
	Subtest 4	9400	1880.0	18.80	22.70	22.20	16.6
		9538	1907.6	18.80	22.83	22.25	16.5
ļ		9262	1852.4	18.80	22.69	22.26	16.70
	Subtest 5	9400	1880.0	18.80	23.00	22.27	16.80
		9538	1907.6	18.60	22.83	22.27	16.80

DC-HSDPA

The following tests were completed according to procedures in section 7.3.13 of 3GPP TS34.108 v9.5.0. A summary of these settings are illustrated below:

Downlink Physical Channels are set as per 3GPP TS34.121-1 v9.0.0 E.5.0

Table E.5.0: Levels for HSDPA connection setup

Parameter During Connection setup	Unit	Value
P-CPICH_Ec/lor	dB	-10
P-CCPCH and SCH_Ec/lor	dB	-12
PICH _Ec/lor	dB	-15
HS-PDSCH	dB	off
HS-SCCH_1	dB	off
DPCH_Ec/lor	dB	-5
OCNS_Ec/lor	dB	-3.1

Call is set up as per 3GPP TS34.108 v9.5.0 sub clause 7.3.13

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122.

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

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

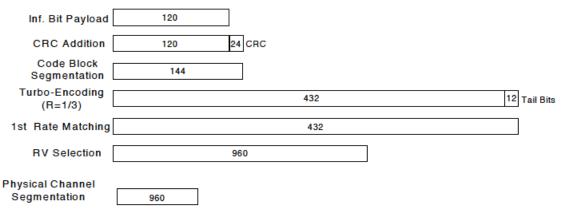


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 Sub-tests for HSDPA were completed according to Release 8 procedures in section 5.2 of 3GPP TS34.121. A summary of subtest settings are illustrated below:

	Mode	HSDPA	HSDPA	HSDPA	HSDPA				
	Subtest	1	2	3	4				
	Loopback Mode	Test Mode 1							
	Rel99 RMC	12.2kbps RMC	12.2kbps RMC						
	HSDPA FRC	H-Set1	H-Set1						
WCDMA	Power Control Algorithm	Algorithm2							
General	βс	2/15	12/15	15/15	15/15				
Settings	βd	15/15	15/15	8/15	4/15				
Settings	βd (SF)	64							
	βc/βd	2/15	12/15	15/8	15/4				
	βhs	4/15	24/15	30/15	30/15				
	MPR (dB)	0	0	0.5	0.5				
	DACK	8							
	DNAK	8							
HSDPA	DCQI	8							
Specific	Ack-Nack Repetition factor	3							
Settings	CQI Feedback	4ms							
	CQI Repetition Factor	2							
	Ahs = β hs/ β c	30/15							

Up commands are set continuously to set the UE to Max power.

Measured Results

			Freq.		Avg Pw	r (dBm)	
Band	Mode	UL Ch No.	(MHz)		AD		DY
				UAT	LAT	UAT	LAT
		4132	826.4	23.33	23.75	23.33	23.75
	Subtest 1	4183	836.6	23.22	23.72	23.22	23.72
		4233	846.6	23.14	23.60	23.14	23.60
		4132	826.4	23.35	23.73	23.35	23.73
	Subtest 2	4183	836.6	23.23	23.71	23.23	23.71
W-CDMA		4233	846.6	23.28	23.61	23.28	23.61
Band V		4132	826.4	22.85	23.30	22.85	23.30
	Subtest 3	4183	836.6	22.73	23.25	22.73	23.25
		4233	846.6	22.79	23.22	22.79	23.22
		4132	826.4	22.86	23.28	22.86	23.28
	Subtest 4	4183	836.6	22.77	23.26	22.77	23.26
		4233	846.6	22.78	23.23	22.78	23.23
		1312	1712.4	18.70	23.76	21.67	17.80
	Subtest 1	1413	1732.6	18.48	23.75	21.45	17.80
		1513	1752.6	18.78	23.74	21.55	17.70
		1312	1712.4	18.68	23.80	21.65	17.80
	Subtest 2	1413	1732.6	18.53	23.76	21.57	17.80
W-CDMA		1513	1752.6	18.78	23.75	21.55	17.80
Band IV	Subtest 3	1312	1712.4	18.33	23.37	21.20	17.40
		1413	1732.6	18.33	23.30	21.06	17.30
		1513	1752.6	18.48	23.30	21.12	17.30
		1312	1712.4	18.33	23.38	21.20	17.40
	Subtest 4	1413	1732.6	18.10	23.29	21.07	17.30
		1513	1752.6	18.43	23.27	21.11	17.30
		9262	1852.4	18.70	23.10	21.88	17.40
	Subtest 1	9400	1880.0	18.80	23.04	22.01	17.30
		9538	1907.6	18.70	23.08	21.85	17.40
<u> </u>		9262	1852.4	18.90	23.08	21.96	17.40
	Subtest 2	9400	1880.0	18.90	23.05	22.06	17.40
W-CDMA		9538	1907.6	18.70	23.05	21.88	17.40
Band II		9262	1852.4	18.30	22.63	21.45	16.90
	Subtest 3	9400	1880.0	18.40	22.58	21.54	16.90
		9538	1907.6	18.30	22.58	21.42	16.90
<u> </u>		9262	1852.4	18.30	22.63	21.42	16.90
	Subtest 4	9400	1880.0	18.40	22.58	21.54	16.90
		9538	1907.6	18.30	22.59	21.45	16.90

HSPA+

Since 16QAM is not used for uplink, the uplink Category and release is same as HSUPA, i.e., CAT 6 Rel 6. Therefore, the RF conducted power is not measured.

8.3. CDMA BC0, BC1, BC10, and BC15

1xRTT Measured Results

1XRII Measured I			_		Avg Pw	r (dBm)	
Band	Mode	UL Ch No.	Freq. (MHz)	HE	AD	BODY	
			(IVITIZ)	UAT	LAT	UAT	LAT
		1013	824.70	24.70	25.00	24.70	25.00
	RC1 SO55	384	836.52	24.70	25.00	24.70	25.00
	(Loopback)	777	848.31	24.50	24.70	24.50	24.70
	D00 0055	1013	824.70	24.70	25.00	24.70	25.00
BC 0	RC3 SO55 (Loopback)	384	836.52	24.70	25.00	24.70	25.00
	(соорьаск)	777	848.31	24.60	24.70	24.60	24.70
	D00 0000	1013	824.70	24.70	25.00	24.70	25.00
	RC3 SO32 (+F-SCH)	384	836.52	24.70	25.00	24.70	24.90
	(+1-3011)	777	848.31	24.50	24.70	24.50	24.70
	DO4 0055	25	1851.25	20.10	24.10	23.10	18.50
	RC1 SO55 (Loopback)	600	1880.00	20.00	24.10	23.20	18.50
	(соорьаск)	1175	1908.75	20.10	24.20	23.10	18.50
	DC2 COFF	25	1851.25	20.10	24.10	23.20	18.50
BC 1	RC3 SO55 (Loopback)	600	1880.00	20.00	24.20	23.10	18.50
	(соорьаск)	1175	1908.75	20.10	24.20	23.00	18.50
	RC3 SO32 (+F-SCH)	25	1851.25	20.10	24.25	23.20	18.50
		600	1880.00	20.00	24.25	23.10	18.50
	(+1-3011)	1175	1908.75	20.10	24.25	23.10	18.50
	DO4 0055	476	817.9	24.60	25.00	24.60	25.00
	RC1 SO55 (Loopback)	580	820.5	24.60	25.00	24.60	25.00
	(соорьаск)	684	823.1	24.60	25.00	24.60	25.00
	D02 0055	476	817.9	24.60	25.00	24.60	25.00
BC 10	RC3 SO55 (Loopback)	580	820.5	24.60	25.00	24.50	25.00
	(соорьаск)	684	823.1	24.60	25.00	24.50	25.00
	DC2 CO20	476	817.9	24.60	25.00	24.60	25.00
	RC3 SO32 (+F-SCH)	580	820.5	24.60	25.00	24.60	25.00
	(+1 -3011)	684	823.1	24.60	25.00	24.60	25.00
	RC1 SO55	25	1711.25	19.90	25.00	23.00	19.00
	(Loopback)	450	1732.50	19.90	25.00	23.00	19.00
	(Loopback)	875	1753.75	19.90	25.00	22.90	19.00
	DC2 COFF	25	1711.25	19.90	25.00	23.00	19.00
BC 15	RC3 SO55 (Loopback)	450	1732.50	19.90	25.00	23.00	19.00
	(Loopback)	875	1753.75	19.90	25.00	22.90	19.00
	DC2 CO22	25	1711.25	19.90	25.00	23.10	19.00
	RC3 SO32 (+F-SCH)	450	1732.50	19.90	25.00	23.10	19.00
	(+r-5CH)	875	1753.75	19.90	25.00	23.10	19.00

1xEV-DO Rel. 0 Measured Results

				Freq.		Avg Pw	r (dBm)		
Band	FTAP Rate	RTAP Rate	UL Ch No.	(MHz)	HEAD		BODY		
				(**************************************	UAT	LAT	UAT	LAT	
	BC 0 307.2 kbps (2 slot, QPSK)		1013	824.70	24.50	24.70	24.50	24.70	
BC 0		153.6 kbps	384	836.52	24.50	24.80	24.50	24.80	
			777	848.31	24.40	24.60	24.40	24.60	
	BC1 307.2 kbps (2 slot, QPSK)	007.0 Here		25	1851.25	20.10	24.25	23.20	18.50
BC1		153.6 kbps	600	1880.00	20.00	24.25	23.20	18.50	
	(2 5151, 41 511)		1175	1908.75	20.00	24.25	23.20	18.50	
	007.011		476	817.9	24.40	25.00	24.40	25.00	
BC10	307.2 kbps (2 slot, QPSK)	153.6 kbps	580	820.5	24.50	25.00	24.60	25.00	
	(2 5151, 41 511)		684	823.1	24.60	24.90	24.60	24.90	
	007.011		25	1711.25	19.90	24.90	23.10	19.00	
BC15	BC15 307.2 kbps (2 slot, QPSK)	153.6 kbps	450	1732.50	19.90	24.70	23.10	19.00	
	(2 5/51, &1 5/1)		875	1753.75	19.90	24.80	23.10	19.00	

1xEV-DO Rev. A Measured Results

Band	FETAP Traffic Format	RETAP Data Payload Size	UL Ch No.	Freq. (MHz)	Avg Pwr (dBm)			
					HEAD		BODY	
					UAT	LAT	UAT	LAT
BC 0	307.2k, QPSK/ ACK channel is transmitted at all the slots	4096	1013	824.70	24.50	24.70	24.50	24.70
			384	836.52	24.50	24.90	24.50	24.90
			777	848.31	24.40	24.50	24.40	24.50
BC1	307.2k, QPSK/ ACK channel is transmitted at all the slots	4096	25	1851.25	20.10	24.30	23.10	18.50
			600	1880.00	20.00	24.20	23.20	18.50
			1175	1908.75	20.00	24.20	23.10	18.50
BC10	307.2k, QPSK/ ACK channel is transmitted at all the slots	4096	476	817.9	24.50	24.90	24.50	24.90
			580	820.5	24.50	25.00	24.50	25.00
			684	823.1	24.60	25.00	24.50	25.00
BC15	307.2k, QPSK/ ACK channel is transmitted at all the slots	4096	25	1711.25	19.80	24.90	22.90	19.00
			450	1732.50	19.80	24.70	23.10	19.00
			875	1753.75	19.80	24.80	23.00	19.00

1xEV-DO Rev. B

Call box setup procedure

1xEV-DO Release B

CMW 500 Signal Generator > 1xEV-DO Taskbar Enable

CMW 500 1xEV-DO Signaling Configuration Window >

 1xEV-DO Signaling On Window: Under Access Network Control: Band Class: BC0: US Cellular

RF Channel: 31

1xEV-DO Power: -70 dBm

Release B

1xEV-DO Signaling Configuration Window

Under RF Frequency Band / Channel: Enter Ch. Frequency
 Under Carrier Configuration: RF Frequency
 For Two Carriers: Low Channel (1013)

 RF Channel
 RF Channel Offset

 Carrier [0]
 31
 0

 Carrier [1]
 1013
 982

Under Carrier Configuration: RF Pilot

For Three Carriers: Low Channel (1013)

	<u>RF Channel</u>	RF Channel Offset
Carrier [0]	72	0
Carrier [1]	31	-41
Carrier [2]	1013	941

Under Carrier Configuration: RF Pilot

	Carrier Sector	Active on AN	Assigned to AT
Pilot [0]	C0/S0	✓	✓
Pilot [1]	C1/S1	✓	✓
Pilot [2]	C2/S2	✓	✓

Rvs Power Ctrl > All Up bits (to get the maximum power)

1xEV-DO Rev. B Measured Results

	Two Carrier Mini Separation Two Carrier Max Separation				Avg Pw	r (dBm)	
Band	Test Set #	Channel	f (MHz)	HE	AD	WY (dBm) BOD UAT 21.10 21.10 21.10 21.10 21.10 21.10 21.10 21.10 21.10 21.10 21.10 21.10	DY
				UAT	LAT	UAT	LAT
	Tura Camian	1013+31	824.70+825.93	21.10	21.70	21.10	21.70
		384+425	836.52+837.75	21.10	21.70	21.10	21.70
	Willin Coparation	736+777	847.08+848.31	21.00	21.60	21.00	21.60
	Turo Corrior	1013+156	824.70+829.68	21.10	21.80	21.10	21.80
BC0		384+550	836.52+841.50	21.10	21.80	21.10	21.80
	Max Coparation	611+777	843.33+848.31	21.10	21.70	21.10	21.70
	Three Corrier	1013+31+72	824.70+825.93+827.16	21.10	21.60	21.10	21.60
	Three Carrier Max Separation	384+425+466	836.52+837.75+838.98	21.10	21.60	21.10	21.60
	a.r Coparation	695+736+777	845.85+847.08+848.31	21.10	21.60	21.10	21.60

8.4. LTE Bands 2, 4, 5, 13, 17, 25, 26, & 41

8.4.1. LTE Band 2

Measured	<u>resuits</u>	Frog		55	55			Avg Pw	ır (dBm)	
BW	Ch	Freq.	Mode	UL RB Allocation	UL RB	MPR	HE	AD	ВС	DY
(MHz)		(MHz)		Allocation	Start		UAT	LAT	UAT	LAT
				1	0	0	20.00	23.30	23.20	18.40
				1	49	0	20.00	23.30	23.20	18.40
				1	99	0	20.00	23.20	23.20	18.30
			QPSK	50	0	1	19.00	22.30	22.20	17.00
				50	24	1	19.10	22.30	22.20	17.00
				50	49	1	19.10	22.30	22.20	17.00
	18700	1860.0		100	0	1	19.10	22.30	22.20	17.00
	16700	1000.0	16QAM	1	0	1	19.00	22.35	22.00	17.00
				1	49	1	19.00	22.33	21.94	17.00
				1	99	1	19.00	22.42	22.11	17.00
				50	0	2	18.00	21.75	21.24	16.50
				50	24	2	18.00	21.69	21.29	16.50
				50	49	2	18.00	21.76	21.43	16.50
				100	0	2	18.00	21.85	21.36	16.50
				1	0	0	20.10	23.70	23.40	18.40
				1	49	0	20.10	23.75	23.40	18.50
				1	99	0	20.10	23.70	23.40	18.40
			QPSK	50	0	1	19.00	22.70	22.40	17.00
				50	24	1	19.10	22.75	22.40	17.00
				50	49	1	19.10	22.70	22.40	17.00
20	18900	1880.0		100	0	1	19.10	22.70	22.40	17.00
20	10300	1000.0		1	0	1	19.00	22.34	22.12	17.00
				1	49	1	19.00	22.40	22.10	17.00
				1	99	1	19.00	22.38	22.02	17.00
			16QAM	50	0	2	18.00	21.76	21.35	16.50
				50	24	2	18.00	21.74	21.42	16.50
				50	49	2	18.00	21.81	21.34	16.50
				100	0	2	18.00	21.82	21.42	16.50
				1	0	0	20.00	23.60	23.20	18.40
				1	49	0	20.00	23.60	23.30	18.50
				1	99	0	20.00	23.60	23.20	18.40
			QPSK	50	0	1	19.00	22.75	22.20	17.00
				50	24	1	19.00	22.75	22.20	17.00
				50	49	1	19.00	22.75	22.20	17.00
	19100	1900.0		100	0	1	19.00	22.75	22.20	17.00
	19100 190	.000.0		1	0	1	19.00	22.60	22.00	17.00
				1	49	1	19.00	22.60	22.00	17.00
				1	99	1	19.00	22.60	22.00	17.00
			16QAM	50	0	2	18.00	21.60	21.05	16.50
				50	24	2	18.00	21.60	21.12	16.50
				50	49	2	18.00	21.60	21.05	16.50
				100	0	2	18.00	21.60	21.13	16.50

LTE Band 2 Measured Results (continued)										
BW		Freq.		UL RB	UL RB				r (dBm)	
(MHz)	Ch	(MHz)	Mode	Allocation	Start	MPR	HE		ВО	DY
							UAT	LAT	UAT	LAT
				1	0	0	19.90	23.11	23.07	18.40
				1	37	0	20.00	23.10	23.01	18.40
				1	74	0	19.80	23.10	22.96	18.30
			QPSK	36	0	1	19.00	22.18	22.16	17.00
				36	16	1	19.10	22.27	22.18	17.00
				36	35	1	19.10	22.28	22.08	17.00
	18675	1857.5		75	0	1	19.10	22.22	22.15	17.00
				1	0	1	19.00	21.93	21.91	17.00
				1	37	1	19.00	21.93	21.91	17.00
				1	74	1	19.00	21.89	21.91	17.00
			16QAM	36	0	2	18.00	21.26	21.15	16.50
				36	16	2	18.00	21.25	21.18	16.50
				36	35	2	18.00	21.26	21.06	16.50
				75	0	2	18.00	21.30	21.09	16.50
				1	0	0	20.00	23.55	23.10	18.40
				1	37	0	20.10	23.50	23.11	18.50
				1	74	0	20.00	23.58	23.34	18.40
			QPSK	36	0	1	19.00	22.69	22.31	17.00
				36	16	1	19.10	22.62	22.30	17.00
				36	35	1	19.10	22.63	22.37	17.00
15	18900	1880.0		75	0	1	19.10	22.67	22.36	17.00
13	10900	1000.0		1	0	1	19.00	22.28	22.11	17.00
				1	37	1	19.00	22.23	22.14	17.00
				1	74	1	19.00	22.27	22.08	17.00
			16QAM	36	0	2	18.00	21.57	21.28	16.50
				36	16	2	18.00	21.51	21.23	16.50
				36	35	2	18.00	21.46	21.29	16.50
				75	0	2	18.00	21.55	21.22	16.50
				1	0	0	20.00	23.51	23.19	18.40
				1	37	0	20.00	23.53	23.27	18.50
				1	74	0	20.00	23.50	23.16	18.40
			QPSK	36	0	1	19.00	22.67	22.17	17.00
				36	16	1	19.00	22.67	22.15	17.00
				36	35	1	19.00	22.69	22.14	17.00
	19125 1902.5 -		75	0	1	19.00	22.69	22.17	17.00	
			1	0	1	19.00	22.37	22.05	17.00	
			1	37	1	19.00	22.35	22.08	17.00	
			1	74	1	19.00	22.32	21.95	17.00	
			16QAM	36	0	2	18.00	21.50	21.23	16.50
				36	16	2	18.00	21.49	21.26	16.50
				36	35	2	18.00	21.51	21.25	16.50
				75	0	2	18.00	21.57	21.25	16.50

LIE Dallu	LTE Band 2 Measured Results (continued)									
BW		Freq.		UL RB	UL RB				r (dBm)	
(MHz)	Ch	(MHz)	Mode	Allocation	Start	MPR	HE		ВО	DY
							UAT	LAT	UAT	LAT
				1	0	0	19.90	23.13	23.06	18.40
				1	24	0	20.00	23.12	23.07	18.40
				1	49	0	19.80	23.05	23.10	18.30
			QPSK	25	0	1	19.00	22.13	22.16	17.00
				25	12	1	19.10	22.12	22.16	17.00
				25	24	1	19.10	22.12	22.15	17.00
	18650	1855.0		50	0	1	19.10	22.15	22.18	17.00
		1000.0		1	0	1	19.00	21.99	21.93	17.00
				1	24	1	19.00	21.90	21.95	17.00
				1	49	1	19.00	21.92	21.93	17.00
			16QAM	25	0	2	18.00	21.22	21.15	16.50
				25	12	2	18.00	21.20	21.23	16.50
				25	24	2	18.00	21.19	21.21	16.50
				50	0	2	18.00	21.19	21.23	16.50
				1	0	0	20.00	23.33	23.21	18.40
				1	24	0	20.10	23.39	23.24	18.50
				1	49	0	20.00	23.43	23.18	18.40
			QPSK	25	0	1	19.00	22.45	22.31	17.00
				25	12	1	19.10	22.52	22.33	17.00
				25	24	1	19.10	22.53	22.35	17.00
10	18900	1880.0		50	0	1	19.10	22.47	22.37	17.00
10	10900	1000.0		1	0	1	19.00	22.20	22.12	17.00
				1	24	1	19.00	22.19	22.15	17.00
				1	49	1	19.00	22.29	22.10	17.00
			16QAM	25	0	2	18.00	21.51	21.21	16.50
				25	12	2	18.00	21.52	21.30	16.50
				25	24	2	18.00	21.58	21.24	16.50
				50	0	2	18.00	21.49	21.23	16.50
				1	0	0	20.00	23.42	22.97	18.40
				1	24	0	20.00	23.56	23.01	18.50
				1	49	0	20.00	23.55	22.92	18.40
			QPSK	25	0	1	19.00	22.56	22.15	17.00
				25	12	1	19.00	22.66	22.08	17.00
				25	24	1	19.00	22.66	22.01	17.00
	19150 1905.0		50	0	1	19.00	22.74	22.04	17.00	
	19150	1905.0		1	0	1	19.00	22.38	22.18	17.00
			1	24	1	19.00	22.46	21.90	17.00	
			1	49	1	19.00	22.55	21.92	17.00	
			16QAM	25	0	2	18.00	21.52	21.10	16.50
				25	12	2	18.00	21.53	21.01	16.50
				25	24	2	18.00	21.55	21.00	16.50
				50	0	2	18.00	21.58	21.01	16.50

LTE Band 2 Measured Results (continued)											
BW		Freq.		UL RB	UL RB				Pwr (dBm)		
(MHz)	Ch	(MHz)	Mode	Allocation	Start	MPR	HE		ВО	DY	
							UAT	LAT	UAT	LAT	
				1	0	0	20.00	23.12	23.06	18.40	
				1	12	0	20.00	23.11	23.14	18.40	
				1	24	0	20.00	23.13	23.13	18.30	
			QPSK	12	0	1	19.00	22.11	22.16	17.00	
				12	6	1	19.10	22.16	22.13	17.00	
				12	11	1	19.10	22.13	22.15	17.00	
	18625	1852.5		25	0	1	19.10	22.14	22.15	17.00	
	10020	1002.0		1	0	1	19.00	21.94	22.12	17.00	
				1	12	1	19.00	21.93	22.19	17.00	
				1	24	1	19.00	21.99	22.14	17.00	
			16QAM	12	0	2	18.00	21.13	21.10	16.50	
				12	6	2	18.00	21.09	21.01	16.50	
				12	11	2	18.00	21.07	21.16	16.50	
				25	0	2	18.00	21.20	21.22	16.50	
				1	0	0	20.10	23.33	23.19	18.40	
				1	12	0	20.10	23.34	23.18	18.50	
				1	24	0	20.10	23.39	23.25	18.40	
			QPSK	12	0	1	19.00	22.47	22.25	17.00	
				12	6	1	19.10	22.42	22.31	17.00	
				12	11	1	19.10	22.45	22.27	17.00	
5	18900	1880.0		25	0	1	19.10	22.39	22.27	17.00	
	10900	1000.0		1	0	1	19.00	22.18	22.37	17.00	
				1	12	1	19.00	22.24	22.32	17.00	
				1	24	1	19.00	22.29	22.27	17.00	
			16QAM	12	0	2	18.00	21.49	21.27	16.50	
				12	6	2	18.00	21.44	21.23	16.50	
				12	11	2	18.00	21.47	21.29	16.50	
				25	0	2	18.00	21.56	21.23	16.50	
				1	0	0	20.00	23.54	22.90	18.40	
				1	12	0	20.00	23.53	23.00	18.50	
				1	24	0	20.00	23.54	22.97	18.40	
			QPSK	12	0	1	19.00	22.65	22.03	17.00	
				12	6	1	19.00	22.55	22.00	17.00	
				12	11	1	19.00	22.62	22.00	17.00	
	19175 1907.5 -		25	0	1	19.00	22.58	21.96	17.00		
			1	0	1	19.00	22.55	22.17	17.00		
			1	12	1	19.00	22.52	22.13	17.00		
			1	24	1	19.00	22.48	22.18	17.00		
			16QAM	12	0	2	18.00	21.50	21.01	16.50	
				12	6	2	18.00	21.46	21.01	16.50	
				12	11	2	18.00	21.47	21.01	16.50	
				25	0	2	18.00	21.57	21.10	16.50	

LTE Band 2 Measured Results (continued)										
BW		Freq.		UL RB	UL RB				r (dBm)	
(MHz)	Ch	(MHz)	Mode	Allocation	Start	MPR	HE		ВО	DY
		· · ·					UAT	LAT	UAT	LAT
				1	0	0	20.00	23.06	23.05	18.40
				1	7	0	20.00	22.97	22.97	18.40
				1	14	0	20.00	23.03	23.13	18.30
			QPSK	8	0	1	19.00	22.05	22.12	17.00
				8	4	1	19.10	22.05	22.12	17.00
				8	7	1	19.10	22.02	22.12	17.00
	18615	1851.5		15	0	1	19.10	21.98	22.06	17.00
				1	0	1	19.00	21.94	21.98	17.00
				1	7	1	19.00	21.87	21.90	17.00
				1	14	1	19.00	21.93	22.06	17.00
			16QAM	8	0	2	18.00	21.15	21.13	16.50
				8	4	2	18.00	21.16	21.12	16.50
				8	7	2	18.00	21.15	21.11	16.50
				15	0	2	18.00	21.14	21.09	16.50
				1	0	0	20.10	23.61	23.26	18.40
				1	7	0	20.10	23.51	23.18	18.50
				1	14	0	20.10	23.63	23.28	18.40
			QPSK	8	0	1	19.00	22.67	22.29	17.00
				8	4	1	19.10	22.63	22.26	17.00
				8	7	1	19.00	22.64	22.28	17.00
3	18900	1880.0		15	0	1	19.10	22.61	22.29	17.00
Ü	10000	1000.0		1	0	1	19.00	22.29	22.14	17.00
				1	7	1	19.00	22.20	22.11	17.00
				1	14	1	19.00	22.28	22.14	17.00
			16QAM	8	0	2	18.00	21.51	21.25	16.50
				8	4	2	18.00	21.50	21.23	16.50
				8	7	2	18.00	21.53	21.26	16.50
				15	0	2	18.00	21.47	21.24	16.50
				1	0	0	20.00	23.55	22.91	18.40
				1	7	0	20.10	23.51	23.02	18.50
				1	14	0	20.10	23.56	23.00	18.50
			QPSK	8	0	1	19.00	22.57	21.96	17.00
				8	4	1	19.00	22.60	22.03	17.00
				8	7	1	19.00	22.58	22.04	17.00
	19185 1908.5		15	0	1	19.00	22.58	21.94	17.00	
			1	0	1	19.00	22.45	21.92	17.00	
			1	7	1	19.00	22.37	21.91	17.00	
				1	14	1	19.00	22.45	21.94	17.00
			16QAM	8	0	2	18.00	21.60	21.02	16.50
				8	4	2	18.00	21.54	21.03	16.50
				8	7	2	18.00	21.54	21.06	16.50
				15	0	2	18.00	21.57	21.00	16.50

LTE Band 2 Measured Results (continued)										
BW		Eros		UL RB	UL RB			Avg Pw	r (dBm)	
(MHz)	Ch	Freq. (MHz)	Mode	Allocation	OL RB Start	MPR	HE	AD	ВО	DY
(1.3.1.2)		(UAT	LAT	UAT	LAT
				1	0	0	19.80	23.18	23.02	18.40
				1	2	0	20.00	23.11	22.98	18.40
				1	5	0	19.90	23.18	23.09	18.30
			QPSK	3	0	0	19.90	23.10	23.00	18.30
				3	1	0	19.90	23.20	23.05	18.40
				3	2	0	19.80	23.15	23.00	18.30
	18607	1850.7		6	0	1	19.10	22.22	22.10	17.00
	10007	1030.7		1	0	1	19.00	21.98	22.12	17.00
				1	2	1	19.00	21.98	22.10	17.00
				1	5	1	19.00	21.95	22.20	17.00
			16QAM	3	0	1	19.00	21.90	22.21	17.00
				3	1	1	19.10	21.92	22.00	17.00
				3	2	1	19.00	21.96	22.10	17.00
				6	0	2	18.00	21.23	22.10	16.50
				1	0	0	20.00	23.56	23.26	18.40
				1	2	0	20.10	23.46	23.22	18.50
			QPSK	1	5	0	20.00	23.57	23.28	18.40
				3	0	0	20.00	23.30	23.20	18.40
				3	1	0	20.10	23.20	23.15	18.40
				3	2	0	19.90	23.25	23.16	18.40
	40000	4000.0		6	0	1	19.10	22.56	22.28	17.00
1.4	18900	1880.0		1	0	1	19.00	22.23	22.30	17.00
				1	2	1	19.00	22.22	22.24	17.00
				1	5	1	19.00	22.25	22.28	17.00
			16QAM	3	0	1	19.10	21.53	22.20	17.00
				3	1	1	19.00	21.51	22.25	17.00
				3	2	1	19.00	21.53	22.18	17.00
				6	0	2	18.00	21.50	21.24	16.50
				1	0	0	20.00	23.55	23.04	18.40
				1	2	0	20.10	23.53	23.01	18.50
				1	5	0	20.10	23.57	22.97	18.50
			QPSK	3	0	0	20.00	23.30	22.87	18.40
				3	1	0	20.00	23.25	23.00	18.50
				3	2	0	20.00	23.29	22.14	18.50
	40400 40000	4000.0		6	0	1	19.00	22.53	22.02	17.00
	19193	1909.3		1	0	1	19.00	22.46	22.03	17.00
				1	2	1	19.00	22.40	21.99	17.00
			1	5	1	19.00	22.43	22.04	17.00	
			16QAM	3	0	1	19.00	22.32	22.00	17.00
				3	1	1	19.10	22.30	22.05	17.00
				3	2	1	19.00	22.25	22.02	17.00
				6	0	2	18.00	21.53	21.11	16.50
		1								

8.4.2. LTE Band 4

Measured	results	_						Avg Pw	ır (dBm)	
BW (MILE)	Ch	Freq.	Mode	UL RB	UL RB	MPR	HE	AD	ВС	DY
(MHz)		(MHz)		Allocation	Start		UAT	LAT	UAT	LAT
				1	0	0	19.80	24.00	22.98	19.00
				1	49	0	19.80	23.80	23.10	19.00
				1	99	0	19.80	23.80	23.07	19.00
			QPSK	50	0	1	18.90	23.00	22.10	17.90
				50	24	1	18.90	23.00	22.10	18.00
				50	49	1	18.90	23.00	22.10	18.00
	20050	1720.0		100	0	1	18.90	23.00	22.10	18.00
	20050	1720.0		1	0	1	18.90	23.00	22.10	18.00
			16QAM	1	49	1	18.90	23.00	22.10	18.00
				1	99	1	18.90	23.00	22.10	18.00
				50	0	2	17.90	22.00	21.10	17.00
				50	24	2	17.90	22.00	21.10	17.00
				50	49	2	17.90	22.00	21.00	17.00
				100	0	2	17.90	22.00	21.10	17.00
				1	0	0	19.90	24.00	23.00	18.90
				1	49	0	19.90	24.00	23.10	19.00
			QPSK	1	99	0	19.90	24.00	23.00	19.00
				50	0	1	18.90	23.00	22.10	17.90
				50	24	1	18.90	23.00	22.10	17.90
				50	49	1	18.90	23.00	22.10	17.90
20	20175	1732.5		100	0	1	18.90	23.00	22.10	18.00
20	20170	1702.0		1	0	1	18.90	23.00	22.10	18.00
				1	49	1	18.90	23.00	22.10	18.00
				1	99	1	18.90	23.00	22.10	18.00
			16QAM	50	0	2	17.90	22.00	21.10	17.00
				50	24	2	17.90	22.00	21.10	17.00
				50	49	2	17.90	22.00	21.06	17.00
				100	0	2	17.90	22.00	21.10	17.00
				1	0	0	19.90	24.00	22.97	18.90
				1	49	0	19.90	24.00	23.00	19.00
				1	99	0	19.80	24.00	23.10	19.00
			QPSK	50	0	1	18.90	23.00	22.00	18.00
				50	24	1	18.90	23.00	22.00	18.00
				50	49	1	18.90	23.00	22.10	18.00
	20300	1745.0		100	0	1	18.90	23.00	22.10	18.00
	20300 1745			1	0	1	18.90	23.00	22.10	18.00
				1	49	1	18.90	23.00	22.10	18.00
				1	99	1	18.90	23.00	22.10	18.00
			16QAM	50	0	2	17.90	22.00	21.10	17.00
				50	24	2	17.90	22.00	21.10	17.00
				50	49	2	17.90	22.00	21.00	17.00
				100	0	2	17.90	22.00	21.10	17.00

LTE Band 4 Measured Results (continued)										
BW		Freq.		UL RB	UL RB				r (dBm)	
(MHz)	Ch	(MHz)	Mode	Allocation	Start	MPR	HE			DY
		, , ,					UAT	LAT	UAT	LAT
				1	0	0	19.80	23.72	22.90	19.00
				1	37	0	19.80	23.63	22.90	19.00
				1	74	0	19.80	23.76	22.90	19.00
			QPSK	36	0	1	18.90	22.91	22.04	17.90
				36	16	1	18.90	22.90	22.03	18.00
				36	35	1	18.90	22.88	22.05	18.00
	20025	1717.5		75	0	1	18.90	22.97	22.07	18.00
				1	0	1	18.90	22.72	21.81	18.00
				1	37	1	18.90	22.72	21.81	18.00
				1	74	1	18.90	22.85	21.84	18.00
			16QAM	36	0	2	17.90	21.83	21.04	17.00
				36	16	2	17.90	21.83	21.05	17.00
				36	35	2	17.90	21.84	20.98	17.00
				75	0	2	17.90	21.88	21.06	17.00
				1	0	0	19.90	23.77	22.88	18.90
				1	37	0	19.90	23.72	22.92	19.00
				1	74	0	19.90	23.88	22.95	19.00
			QPSK	36	0	1	18.90	22.99	22.05	17.90
				36	16	1	18.90	22.93	22.10	17.90
				36	35	1	18.90	22.96	22.06	17.90
15	20175	1732.5		75	0	1	18.90	22.98	22.08	18.00
15	20173	1702.0		1	0	1	18.90	22.80	21.85	18.00
				1	37	1	18.90	22.76	21.81	18.00
				1	74	1	18.90	22.70	21.81	18.00
			16QAM	36	0	2	17.90	21.89	20.98	17.00
				36	16	2	17.90	21.86	20.98	17.00
				36	35	2	17.90	21.87	20.97	17.00
				75	0	2	17.90	21.91	21.09	17.00
				1	0	0	19.90	23.84	22.90	18.90
				1	37	0	19.90	23.85	22.93	19.00
				1	74	0	19.80	23.79	22.76	19.00
			QPSK	36	0	1	18.90	22.99	21.96	18.00
				36	16	1	18.90	23.00	21.97	18.00
	20325 1747.5			36	35	1	18.90	22.88	22.09	18.00
			75	0	1	18.90	22.92	22.10	18.00	
	20325	1747.5		1	0	1	18.90	22.70	21.81	18.00
			1	37	1	18.90	22.70	21.83	18.00	
			1	74	1	18.90	22.71	21.83	18.00	
			16QAM	36	0	2	17.90	21.95	21.08	17.00
				36	16	2	17.90	21.93	21.06	17.00
				36	35	2	17.90	21.84	20.90	17.00
				75	0	2	17.90	21.91	21.09	17.00

	4 Measure	u Results (continuea)				Avg Pwr (dBm)				
BW	Ch	Freq.	Mode	UL RB	UL RB	MPR	HE			DY	
(MHz)	0	(MHz)	Mode	Allocation	Start		UAT	LAT	UAT	LAT	
				1	0	0	19.80	23.81	22.89	19.00	
				1	24	0	19.80	23.77	22.88	19.00	
				1	49	0	19.80	23.79	22.87	19.00	
			QPSK	25	0	1	18.90	22.93	21.98	17.90	
				25	12	1	18.90	22.97	22.02	18.00	
				25	24	1	18.90	22.94	21.97	18.00	
	00000	4745.0		50	0	1	18.90	22.95	21.98	18.00	
	20000	1715.0		1	0	1	18.90	22.74	21.81	18.00	
				1	24	1	18.90	22.74	21.81	18.00	
				1	49	1	18.90	22.78	21.81	18.00	
			16QAM	25	0	2	17.90	21.98	20.99	17.00	
<u> </u>				25	12	2	17.90	21.96	21.02	17.00	
<u> </u>				25	24	2	17.90	21.95	20.95	17.00	
				50	0	2	18.00	21.97	21.04	17.00	
				1	0	0	19.80	23.97	22.86	18.90	
				1	24	0	19.90	23.92	22.87	19.00	
			QPSK	1	49	0	19.80	23.99	22.90	19.00	
				25	0	1	18.70	22.97	21.98	17.90	
				25	12	1	18.80	22.99	22.01	17.90	
				25	24	1	18.90	22.97	22.05	17.90	
40	00475	4700 5		50	0	1	18.70	22.97	22.00	18.00	
10	20175	1732.5		1	0	1	18.90	22.91	21.81	18.00	
				1	24	1	18.90	22.81	21.81	18.00	
				1	49	1	18.90	22.83	21.80	18.00	
			16QAM	25	0	2	17.90	21.94	20.93	17.00	
				25	12	2	17.90	21.90	20.91	17.00	
				25	24	2	17.90	21.92	20.95	17.00	
				50	0	2	17.90	21.93	21.03	17.00	
				1	0	0	19.90	23.93	22.87	18.90	
				1	24	0	19.90	23.88	22.91	19.00	
				1	49	0	19.80	23.87	22.71	19.00	
			QPSK	25	0	1	18.90	22.96	21.96	18.00	
				25	12	1	18.90	22.97	21.97	18.00	
				25	24	1	18.90	22.99	22.08	18.00	
	20350 1750.0 -		50	0	1	18.90	22.92	22.02	18.00		
			1	0	1	18.90	22.82	21.81	18.00		
			1	24	1	18.90	22.83	21.81	18.00		
			1	49	1	18.90	22.86	21.80	18.00		
<u> </u>			16QAM	25	0	2	17.90	21.99	21.04	17.00	
<u> </u>				25	12	2	17.90	21.97	21.00	17.00	
				25	24	2	17.90	22.00	20.99	17.00	
	I	I	I	50	0	2	17.90	21.88	21.02	17.00	

LTE Band	+ incasarc		continuca)					Avg Pw	vr (dBm)	
BW (MHz)	Ch	Freq.	Mode	UL RB	UL RB	MPR	HE	AD	ВО	DY
(MHz)		(MHz)		Allocation	Start		UAT	LAT	UAT	LAT
				1	0	0	19.80	23.76	22.88	19.00
				1	12	0	19.80	23.74	22.87	19.00
				1	24	0	19.80	23.76	22.91	19.00
			QPSK	12	0	1	18.90	22.87	21.97	17.90
				12	6	1	18.90	22.95	21.94	18.00
				12	11	1	18.90	22.97	21.95	18.00
	19975	1712.5		25	0	1	18.90	22.95	21.98	18.00
	19975	1712.5		1	0	1	18.90	22.99	22.01	18.00
				1	12	1	18.90	22.97	22.08	18.00
				1	24	1	18.90	22.95	22.01	18.00
			16QAM	12	0	2	17.90	21.91	20.94	17.00
				12	6	2	17.90	21.99	20.96	17.00
				12	11	2	17.90	21.97	20.95	17.00
				25	0	2	18.00	21.96	21.08	17.00
				1	0	0	19.80	23.94	22.87	18.90
				1	12	0	19.90	23.91	22.88	19.00
				1	24	0	19.80	23.96	22.89	19.00
			QPSK	12	0	1	18.70	22.95	22.00	17.90
				12	6	1	18.80	22.94	22.00	17.90
				12	11	1	18.90	22.92	21.92	17.90
5	20175	1732.5		25	0	1	18.70	22.96	21.92	18.00
Ŭ	20170	1702.0		1	0	1	18.90	22.96	22.05	18.00
				1	12	1	18.90	22.98	22.03	18.00
				1	24	1	18.90	22.96	22.05	18.00
			16QAM	12	0	2	17.90	21.94	20.96	17.00
				12	6	2	17.90	21.95	20.95	17.00
				12	11	2	17.90	21.94	20.96	17.00
				25	0	2	17.90	21.97	21.06	17.00
				1	0	0	19.90	23.89	22.90	18.90
				1	12	0	19.90	23.92	22.96	19.00
				1	24	0	19.80	23.97	22.79	19.00
			QPSK	12	0	1	18.90	22.92	21.98	18.00
				12	6	1	18.90	22.96	21.91	18.00
				12	11	1	18.90	22.96	22.04	18.00
	20375	1752.5		25	0	1	18.90	22.91	22.01	18.00
				1	0	1	18.90	22.99	22.07	18.00
				1	12	1	18.90	22.92	22.06	18.00
			400	1	24	1	18.90	22.98	22.06	18.00
			16QAM	12	0	2	17.90	21.93	21.07	17.00
				12	6	2	17.90	21.90	21.05	17.00
				12	11	2	17.90	21.92	20.97	17.00
				25	0	2	17.90	21.98	21.08	17.00

LTE Band	4 Measure	d Results (continued)					Δνα Ρω	r (dBm)	
BW	Ch	Freq.	Mode	UL RB	UL RB	MPR	HE			DY
(MHz)	CII	(MHz)	Mode	Allocation	Start	IVIPIC	UAT	LAT	UAT	LAT
				1	0	0	19.80	23.82	22.83	19.00
				1	7	0	19.80	23.71	22.84	19.00
				1	14	0	19.80	23.79	22.93	19.00
			QPSK	8	0	1	18.90	22.87	21.98	17.90
				8	4	1	18.90	22.94	21.95	18.00
				8	7	1	18.90	22.91	21.92	18.00
				15	0	1	18.90	22.96	21.97	18.00
	19965	1711.5		1	0	1	18.90	22.73	21.81	18.00
				1	7	1	18.90	22.77	21.81	18.00
				1	14	1	18.90	22.82	21.81	18.00
			16QAM	8	0	2	17.90	21.88	21.02	17.00
				8	4	2	17.90	21.96	21.02	17.00
				8	7	2	17.90	21.96	20.97	17.00
				15	0	2	18.00	21.92	21.03	17.00
				1	0	0	19.80	23.97	22.90	18.90
				1	7	0	19.90	23.89	22.84	19.00
				1	14	0	19.80	23.95	22.90	19.00
			QPSK	8	0	1	18.70	22.96	21.98	17.90
				8	4	1	18.80	22.95	21.93	17.90
				8	7	1	18.90	22.88	21.95	17.90
_	20475	4700 F		15	0	1	18.70	22.95	21.95	18.00
3	20175	1732.5		1	0	1	18.90	22.89	21.81	18.00
				1	7	1	18.90	22.81	21.81	18.00
				1	14	1	18.90	22.86	21.85	18.00
			16QAM	8	0	2	17.90	21.90	20.97	17.00
				8	4	2	17.90	21.93	20.97	17.00
				8	7	2	17.90	21.93	20.94	17.00
				15	0	2	17.90	21.90	20.99	17.00
				1	0	0	19.90	23.98	22.86	18.90
				1	7	0	19.90	23.94	22.93	19.00
				1	14	0	19.80	23.95	22.76	19.00
			QPSK	8	0	1	18.90	22.94	21.96	18.00
				8	4	1	18.90	22.97	21.95	18.00
				8	7	1	18.90	22.96	22.04	18.00
	20385	1753.5		15	0	1	18.90	22.93	21.98	18.00
	20303	1733.3		1	0	1	18.90	22.85	21.97	18.00
				1	7	1	18.90	22.78	21.82	18.00
				1	14	1	18.90	22.89	21.88	18.00
			16QAM	8	0	2	17.90	21.95	21.07	17.00
				8	4	2	17.90	21.98	21.07	17.00
				8	7	2	17.90	21.99	20.97	17.00
				15	0	2	17.90	21.89	21.10	17.00

LTE Band	4 Measure	d Results (continued)							
BW		Freq.		UL RB	UL RB			Avg Pw		
(MHz)	Ch	(MHz)	Mode	Allocation	Start	MPR	HE			DY
							UAT	LAT	UAT	LAT
				1	0	0	19.80	23.82	22.88	19.00
				1	2	0	19.80	23.75	22.89	19.00
				1	5	0	19.80	23.75	22.98	19.00
			QPSK	3	0	0	19.90	23.70	22.70	18.90
				3	1	0	19.90	23.75	22.75	19.00
				3	2	0	19.90	23.78	22.80	19.00
	19957	1710.7		6	0	1	18.90	22.94	21.94	18.00
	10007	17 10.7		1	0	1	18.90	22.95	21.97	18.00
				1	2	1	18.90	22.90	21.91	18.00
				1	5	1	18.90	22.96	21.96	18.00
			16QAM	3	0	1	18.90	22.85	21.80	18.00
				3	1	1	18.90	22.90	21.75	18.00
				3	2	1	18.90	22.87	21.80	18.00
				6	0	2	18.00	21.98	21.07	17.00
				1	0	0	19.80	23.97	23.00	18.90
				1	2	0	19.90	23.98	22.92	19.00
				1	5	0	19.80	23.96	22.95	19.00
			QPSK	3	0	0	19.70	23.90	22.70	18.90
				3	1	0	19.80	23.85	22.75	18.90
				3	2	0	19.90	23.88	22.73	18.90
1.4	20175	1732.5		6	0	1	18.70	22.95	21.97	18.00
1.4	20173	1732.3		1	0	1	18.90	22.98	21.97	18.00
				1	2	1	18.90	22.92	21.94	18.00
				1	5	1	18.90	22.96	21.96	18.10
			16QAM	3	0	1	18.90	22.90	21.87	18.00
				3	1	1	18.90	22.95	21.80	18.00
				3	2	1	18.90	22.90	21.85	18.00
				6	0	2	17.90	22.01	21.08	17.00
				1	0	0	19.70	23.99	22.85	18.90
				1	2	0	19.80	23.92	22.99	19.00
				1	5	0	19.70	23.90	22.76	19.00
			QPSK	3	0	0	19.80	23.85	22.70	19.00
				3	1	0	19.80	23.90	22.75	19.00
				3	2	0	19.80	23.86	22.72	18.90
	20202	1754.3		6	0	1	18.80	22.97	22.06	18.00
	20393	1734.3		1	0	1	18.70	22.96	22.03	18.00
				1	2	1	18.60	22.91	21.97	18.00
				1	5	1	18.70	22.94	22.04	18.10
			16QAM	3	0	1	18.90	22.87	21.85	18.00
				3	1	1	18.90	22.90	21.90	18.00
				3	2	1	18.90	22.95	21.87	17.90
		ĺ		6	0	2	17.90	21.93	21.04	17.00

8.4.3. LTE Band 5

10 20525 836.5 1	<u>Re</u>	<u>esults</u>							Δνα Ρω	ır (dRm)	
10 20525 836.5 MHz) Allocation Start UAT UAT		Ch		Mode	UL RB	UL RB	MPR	HE			DV
10 20525 836.5 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		OH	(MHz)	Wiode	Allocation	Start	IVII IX				LAT
10 20525 836.5 1					1	0	0				24.00
10 PSK 1											24.00
20450 829.0 829.0 25 0 1 22.67 23.00 22.67 2 25 12 1 22.40 23.00 22.60 2 25 24 1 22.70 23.00 22.73 2 50 0 1 22.70 23.00 22.73 2 1 0 1 22.40 22.73 22.40 2 1 1 24 1 22.47 22.61 22.47 2 1 1 49 1 22.49 22.71 22.49 2 25 24 2 21.67 21.87 21.67 2 25 24 2 21.67 21.87 21.67 2 25 24 2 21.71 21.88 21.71 2 50 0 2 21.67 21.91 21.67 2 25 24 2 21.71 21.88 21.71 2 50 0 2 21.67 21.91 21.67 2 25 24 2 21.71 21.88 21.71 2 50 0 2 21.67 21.91 21.67 2 25 24 2 23.70 23.00 22.70 2 25 12 1 22.70 23.00 22.70 2 25 12 1 22.70 23.00 22.70 2 25 12 1 22.70 23.00 22.70 2 25 12 1 22.70 23.00 22.70 2 25 24 1 22.70 23.00 22.70 2 25 24 1 22.70 23.00 22.70 2 25 24 1 22.70 23.00 22.70 2 25 24 1 22.70 23.00 22.70 2 25 24 1 22.70 23.00 22.70 2 25 24 1 22.70 23.00 22.70 2 25 24 1 22.70 23.00 22.70 2 25 24 1 22.70 23.00 22.70 2 25 24 1 22.70 23.00 22.70 2 25 24 2 21.63 21.79 21.63 2 25 24 2 21.63 21.79 21.63 2 25 24 2 21.63 21.83 21.68 2 25 24 2 21.63 21.83 21.68 2 25 24 2 21.63 21.83 21.68 2 25 24 2 21.63 21.79 21.63 2 25 24 2 21.63 21.79 21.63 2 25 24 2 21.63 21.79 21.63 2 25 24 2 21.63 21.79 21.63 2 25 24 2 21.63 21.79 21.63 2 25 24 2 21.63 21.79 21.63 2 25 24 2 21.63 21.84 21.63 2 25 24 2 21.63 21.84 21.63 2 25 24 2 21.63 21.84 21.63 2 25 24 2 21.63 21.84 21.63 2 25 24 2 21.63 21.84 21.63 2 25 24 2 21.63 21.84 21.63 2 25 24 2 21.63 21.84 21.63 2 25 24 2 21.63 21.84 21.63 2 25 24 2 21.63 21.84 21.63 2 25 24 2 21.63 21.79 21.63 2 25 24 2 21.63 21.84 21.63 2 25 24 2 21.63 21.84 21.63 2 25 24 2 21.63 21.84 21.63 2 25 24 2 21.63 21.84 21.63 2 25 24 2 21.63 21.79 21.63 2 25 24 2 21.63 21.79 21.63 2 25 24 2 21.63 21.79 21.63 2 25 24 2 21.62 22.40 2 25 22.40 2 21.62 22.40 2 25 22.40 2 21.62 22.40 2 25 22.40 2 21.62 22.40 2 25 22.40 2 21.62 22.40 2 25 22.40 2 21.62 22.40 2 25 22.40 2 21.62 22.40 2 25 22.40 2 21.62 22.40 2 25 22.40 2 21.62 22.40 2 25 22.40 2 21.62 22.40 2 25 22.40 2 21.62 22.40 2 25 22.40 2 21.62 22.40 2 25 22.40 2 21.62 22.40 2 25 22.40 2 21.62 22.40 2 25 22.40 2 21.62 22.40 2 25 22.40 2 21.62 22.40 2 25 22.40 2 21.60 2 25 22.40 2 21.60 2 25											24.00
20450 829.0 829.0 25 12 1 22.60 23.00 22.60 25 24 1 22.73 23.00 22.73 2 10 0 1 22.40 22.73 23.00 22.70 2 11 0 1 22.40 22.73 22.40 22.73 22.40 1 22.40 22.73 22.40 1 22.40 22.73 22.40 1 22.40 22.73 22.40 1 22.40 22.73 22.40 1 22.40 22.73 22.40 1 22.40 22.71 22.49 22.71 22.49 22.71 22.49 22.71 22.49 22.71 22.49 22.71 22.49 22.55 12 2 21.67 21.87 21.67 2.55 24 2 21.71 21.88 21.71 2.55 24 2 21.71 21.88 21.71 21.67 2.55 24 2 21.71 21.88 21.71 21.67 2.55 24 2 21.71 21.88 21.71 21.67 2.55 24 2 21.71 21.89 21.71 21.67 2.55 24 2 21.67 21.91 21.67 2.55 24 2 21.67 21.91 21.67 2.55 24 2 21.67 21.91 21.67 2.55 22.50 22.70 23.00 22.70 23.70 23.70 24.70 23.70 23.70 24.70 23.70 23.70 24.70 23.70 23.70 24.70 23.70 23.70 24.70 23.70 23.70 24.70 23.70 23.70 24.70 23.70 23.70 24.70				QPSK	25	0	1				23.00
20450 829.0 829.0					l	12	1				23.00
10 20450 829.0 1					25	24	1	22.73	23.00		23.00
10 20525 1		20450	000.0		50	0	1	22.70	23.00	22.70	23.00
10 20525 836.5 10 49 1 22.49 22.71 22.49 2 2 160 2 1.86 21.62 2 2 2 1.67 21.87 21.67 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		20450	829.0		1	0	1	22.40	22.73	22.40	22.73
10 20525 836.5 16QAM 25 0 2 21.62 21.86 21.62 2 2 25 12 2 21.67 21.87 21.67 2 2 25 24 2 21.71 21.88 21.71 2 2 2 21.67 21.91 21.67 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					1	24	1	22.47	22.61	22.47	22.61
10 20525 836.5 12 2 21.67 21.87 21.67 2 25 24 2 21.71 21.88 21.71 2 50 0 2 21.67 21.91 21.67 2 50 0 2 21.67 21.91 21.67 2 50 0 2 23.60 24.00 23.60 2 1 0 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 25 12 1 22.70 23.00 22.70 2 25 12 1 22.70 23.00 22.70 2 25 12 1 22.70 23.00 22.70 2 50 0 1 22.70 23.00 22.70 2 50 0 1 22.70 23.00 22.70 2 50 0 1 22.70 23.00 22.70 2 50 0 1 22.70 23.00 22.70 2 50 0 1 22.70 23.00 22.70 2 50 0 1 22.70 23.00 22.70 2 50 0 1 22.70 23.00 22.70 2 50 0 1 22.70 23.00 22.70 2 50 0 1 22.70 23.00 22.70 2 50 0 1 22.70 23.00 22.70 2 50 0 1 22.70 23.00 22.70 2 50 0 1 22.70 21.81 21.70 2 50 0 2 21.63 21.84 21.63 2 50 0 2 21.63 21.84 21.63 2 50 0 0 23.70 24.00 23.70 2 1 0 0 0 23.70 24.00 23.70 2 1 24 0 23.70 24.00 23.70 2 1 24 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 25 12 1 22.60 23.00 22.70 2 25 12 1 22.60 23.00 22.70 2 25 12 1 22.60 23.00 22.70 2					1	49	1	22.49	22.71	22.49	22.71
10 25 24 2 21.71 21.88 21.71 2 50 0 2 21.67 21.91 21.67 2 50 0 2 21.67 21.91 21.67 2 1 0 0 0 23.60 24.00 23.60 2 1 24 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 25 12 1 22.70 23.00 22.70 2 25 24 1 22.70 23.00 22.70 2 25 24 1 22.70 23.00 22.70 2 50 0 1 22.70 23.00 22.70 2 50 0 1 22.70 23.00 22.70 2 1 49 1 22.44 22.68 22.44 2 1 49 1 22.44 22.68 22.44 2 1 49 1 22.44 22.68 22.44 2 1 49 1 22.40 22.62 22.40 2 25 24 2 21.63 21.83 21.68 2 25 24 2 21.63 21.84 21.63 2 50 0 2 21.70 21.81 21.70 2 25 12 2 21.68 21.83 21.68 2 25 24 2 21.63 21.84 21.63 2 1 0 0 23.70 24.00 23.70 2 1 24 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 25 12 1 22.70 23.00 22.70 2 25 12 1 22.70 23.00 22.70 2 25 12 1 22.70 23.00 22.70 2 25 25 24 2 21.63 21.84 21.63 2 25 25 24 2 23.63 21.84 21.63 2 25 25 24 2 23.63 21.84 21.63 2 25 25 24 2 23.70 24.00 23				16QAM	25	0	2	21.62	21.86	21.62	21.86
10 20525 836.5					25	12	2	21.67	21.87	21.67	21.87
10 20525 836.5					25	24	2	21.71	21.88	21.71	21.88
10 24 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 25 0 1 22.70 23.00 22.70 2 25 12 1 22.70 23.00 22.70 2 25 24 1 22.70 23.00 22.70 2 25 24 1 22.70 23.00 22.70 2 25 12 1 22.70 23.00 22.70 2 25 12 1 22.70 23.00 22.70 2 25 24 1 22.70 23.00 22.70 2 25 12 1 22.70 23.00 22.70 2 25 12 1 22.80 22.65 22.50 2 1 49 1 22.44 22.68 22.44 2 1 49 1 22.40 22.62 22.40 2 25 12 2 21.68 21.83 21.68 2 25 24 2 21.63 21.79 21.63 2 25 24 2 21.63 21.79 21.63 2 25 24 2 21.63 21.79 21.63 2 25 24 2 21.63 21.79 21.63 2 25 24 2 21.63 21.84 21.63 2 25 25 24 2 23.70 24.00 23.70 2 27 27 28 28 28 28 28 28 28 28 28 28 28 28 28					50	0	2	21.67	21.91	21.67	21.91
10 20525 836.5					1	0	0	23.60	24.00	23.60	24.00
10 20525 836.5					1	24	0	23.70	24.00	23.70	24.00
10 20525 836.5 836.5					1	49	0	23.70	24.00	23.70	24.00
25 24 1 22.70 23.00 22.70 2 50 0 1 22.70 23.00 22.70 2 1 0 1 22.50 22.65 22.50 2 1 24 1 22.44 22.68 22.44 2 1 49 1 22.40 22.62 22.40 2 25 12 2 21.68 21.83 21.68 2 25 24 2 21.63 21.79 21.63 2 50 0 2 21.63 21.79 21.63 2 50 0 2 21.63 21.84 21.63 2 1 0 0 23.70 24.00 23.70 2 1 24 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 25 12 1 22.60 23.00 22.70 2 25 12 1 22.60 23.00 22.70 2 25 24 1 22.60 23.00 22.70 2				QPSK	25		1	22.70	23.00	22.70	23.00
10 20525 836.5							1			22.70	23.00
10 20525 836.5											23.00
1 0 1 22.50 22.65 22.50 2 1 24 1 22.44 22.68 22.44 2 1 49 1 22.40 22.62 22.40 2 25 0 2 21.70 21.81 21.70 2 25 12 2 21.68 21.83 21.68 2 25 24 2 21.63 21.79 21.63 2 50 0 2 21.63 21.84 21.63 2 1 0 0 23.70 24.00 23.70 2 1 24 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 25 12 1 22.60 23.00 22.70 2 25 12 1 22.60 23.00 22.70 2		20525	836.5								23.00
1 49 1 22.40 22.62 22.40 2 16QAM 25 0 2 21.70 21.81 21.70 2 25 12 2 21.68 21.83 21.68 2 25 24 2 21.63 21.79 21.63 2 50 0 2 21.63 21.84 21.63 2 1 0 0 23.70 24.00 23.70 2 1 24 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 25 0 1 22.70 23.00 22.70 2 25 12 1 22.60 23.00 22.70 2 25 24 1 22.70 23.00 22.70 2											22.65
16QAM 25 0 2 21.70 21.81 21.70 2 25 12 2 21.68 21.83 21.68 2 25 24 2 21.63 21.79 21.63 2 50 0 2 21.63 21.84 21.63 2 50 0 2 21.63 21.84 21.63 2 1 0 0 23.70 24.00 23.70 2 1 24 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 25 0 1 22.70 23.00 22.70 2 25 12 1 22.60 23.00 22.60 2 25 24 1 22.70 23.00 22.70 2											22.68
25 12 2 21.68 21.83 21.68 2 25 24 2 21.63 21.79 21.63 2 50 0 2 21.63 21.84 21.63 2 1 0 0 23.70 24.00 23.70 2 1 24 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 25 0 1 22.70 23.00 22.70 2 25 12 1 22.60 23.00 22.70 2				400 414	-						22.62
25 24 2 21.63 21.79 21.63 2 50 0 2 21.63 21.84 21.63 2 1 0 0 23.70 24.00 23.70 2 1 24 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 25 0 1 22.70 23.00 22.70 2 25 12 1 22.60 23.00 22.70 2 25 24 1 22.70 23.00 22.70 2				16QAM	l						21.81
50 0 2 21.63 21.84 21.63 2 1 0 0 23.70 24.00 23.70 2 1 24 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 25 0 1 22.70 23.00 22.70 2 25 12 1 22.60 23.00 22.60 2 25 24 1 22.70 23.00 22.70 2					l						21.83
PSK 1 0 0 23.70 24.00 23.70 2 1 24 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 25 0 1 22.70 23.00 22.70 2 25 24 1 22.70 23.00 22.70 2					l						21.79
1 24 0 23.70 24.00 23.70 2 1 49 0 23.70 24.00 23.70 2 25 0 1 22.70 23.00 22.70 2 25 12 1 22.60 23.00 22.60 2 25 24 1 22.70 23.00 22.70 2	-										21.84
QPSK					-						24.00
QPSK 25 0 1 22.70 23.00 22.70 2 25 12 1 22.60 23.00 22.60 2 25 24 1 22.70 23.00 22.70 2											24.00
25 12 1 22.60 23.00 22.60 2 25 24 1 22.70 23.00 22.70 2				OBSK							24.00
25 24 1 22.70 23.00 22.70 2				QFSK							23.00
											23.00
				50	0	1	22.70	23.00	22.70	23.00	
20600 844.0		20600	844.0								22.64
											22.72
											22.74
				16QAM							21.74
											21.84
											21.85
											21.85

LTE Band	5 Measure	d Results (continued)							
BW		Freq.		UL RB	UL RB				r (dBm)	
(MHz)	Ch	(MHz)	Mode	Allocation	Start	MPR	HE		ВО	DY
		, , ,					UAT	LAT	UAT	LAT
				1	0	0	23.49	23.79	23.49	23.79
				1	12	0	23.48	23.78	23.48	23.78
				1	24	0	23.57	23.73	23.57	23.73
			QPSK	12	0	1	22.55	22.97	22.55	22.97
				12	6	1	22.57	22.90	22.57	22.90
				12	11	1	22.57	22.94	22.57	22.94
	20425	826.5		25	0	1	22.66	22.90	22.66	22.90
				1	0	1	22.65	22.62	22.65	22.62
				1	12	1	22.65	22.60	22.65	22.60
				1	24	1	22.65	22.70	22.65	22.70
			16QAM	12	0	2	21.65	21.84	21.65	21.84
				12	6	2	21.60	21.79	21.60	21.79
				12	11	2	21.62	21.83	21.62	21.83
				25	0	2	21.67	21.95	21.67	21.95
				1	0	0	23.53	23.75	23.53	23.75
				1	12	0	23.50	23.72	23.50	23.72
				1	24	0	23.51	23.73	23.51	23.73
			QPSK	12	0	1	22.66	22.83	22.66	22.83
				12	6	1	22.66	22.82	22.66	22.82
				12	11	1	22.64	22.80	22.64	22.80
5	20525	836.5		25	0	1	22.68	22.85	22.68	22.85
Ü	20020	000.0		1	0	1	22.66	22.65	22.66	22.65
				1	12	1	22.68	22.66	22.68	22.66
				1	24	1	22.66	22.55	22.66	22.55
			16QAM	12	0	2	21.65	21.78	21.65	21.78
				12	6	2	21.61	21.72	21.61	21.72
				12	11	2	21.67	21.73	21.67	21.73
				25	0	2	21.68	21.73	21.68	21.73
				1	0	0	23.51	23.76	23.51	23.76
				1	12	0	23.45	23.71	23.45	23.71
				1	24	0	23.41	23.87	23.41	23.87
			QPSK	12	0	1	22.66	22.84	22.66	22.84
				12	6	1	22.59	22.85	22.59	22.85
				12	11	1	22.56	22.86	22.56	22.86
	20625	846.5		25	0	1	22.62	22.90	22.62	22.90
	20020	0.0.0		1	0	1	22.57	22.65	22.57	22.65
				1	12	1	22.54	22.62	22.54	22.62
				1	24	1	22.55	22.66	22.55	22.66
			16QAM	12	0	2	21.68	21.63	21.68	21.63
				12	6	2	21.59	21.77	21.59	21.77
				12	11	2	21.57	21.74	21.57	21.74
				25	0	2	21.63	21.71	21.63	21.71

LTE Band	5 Measure	d Results (continued)							
BW		Freq.		UL RB	UL RB				r (dBm)	
(MHz)	Ch	(MHz)	Mode	Allocation	Start	MPR		AD		DY
		, , ,					UAT	LAT	UAT	LAT
				1	0	0	23.57	23.84	23.57	23.84
				1	7	0	23.51	23.75	23.51	23.75
				1	14	0	23.55	23.80	23.55	23.80
			QPSK	8	0	1	22.53	22.92	22.53	22.92
				8	4	1	22.57	22.74	22.57	22.74
				8	7	1	22.56	22.94	22.56	22.94
	20415	825.5		15	0	1	22.67	22.96	22.67	22.96
				1	0	1	22.47	22.57	22.47	22.57
				1	7	1	22.42	22.61	22.42	22.61
				1	14	1	22.49	22.60	22.49	22.60
			16QAM	8	0	2	21.67	21.89	21.67	21.89
				8	4	2	21.66	21.78	21.66	21.78
				8	7	2	21.67	21.87	21.67	21.87
				15	0	2	21.67	21.89	21.67	21.89
				1	0	0	23.57	23.75	23.57	23.75
				1	7	0	23.51	23.70	23.51	23.70
				1	14	0	23.50	23.77	23.50	23.77
			QPSK	8	0	1	22.67	22.85	22.67	22.85
				8	4	1	22.65	22.83	22.65	22.83
				8	7	1	22.61	22.85	22.61	22.85
3	20525	836.5		15	0	1	22.70	22.82	22.70	22.82
	20020	000.0		1	0	1	22.53	22.67	22.53	22.67
				1	7	1	22.48	22.66	22.48	22.66
				1	14	1	22.45	22.46	22.45	22.46
			16QAM	8	0	2	21.66	21.79	21.66	21.79
				8	4	2	21.67	21.61	21.67	21.61
				8	7	2	21.68	21.61	21.68	21.61
				15	0	2	21.70	21.80	21.70	21.80
				1	0	0	23.52	23.79	23.52	23.79
				1	7	0	23.44	23.75	23.44	23.75
				1	14	0	23.41	23.86	23.41	23.86
			QPSK	8	0	1	22.64	22.82	22.64	22.82
				8	4	1	22.57	22.94	22.57	22.94
				8	7	1	22.45	22.89	22.45	22.89
	20635	20635 847.5 –		15	0	1	22.60	22.91	22.60	22.91
	20000	0.7.0		1	0	1	22.46	22.60	22.46	22.60
				1	7	1	22.39	22.69	22.39	22.69
				1	14	1	22.33	22.61	22.33	22.61
			16QAM	8	0	2	21.66	21.63	21.66	21.63
				8	4	2	21.64	21.70	21.64	21.70
				8	7	2	21.53	21.70	21.53	21.70
				15	0	2	21.64	21.76	21.64	21.76

LTE Band	5 Measure	d Results (continued)							
BW		Гиол		- I	- I			Avg Pw	r (dBm)	
(MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	HE	AD	ВО	DY
()		(111112)		7 modalion	Oldin		UAT	LAT	UAT	LAT
				1	0	0	23.60	23.88	23.60	23.88
				1	2	0	23.55	23.86	23.55	23.86
				1	5	0	23.58	23.77	23.58	23.77
			QPSK	3	0	0	23.50	23.70	23.50	23.70
				3	1	0	23.48	23.72	23.48	23.72
				3	2	0	23.52	23.65	23.52	23.65
	20407	824.7		6	0	1	22.68	22.88	22.68	22.88
	20407	024.7		1	0	1	22.67	22.59	22.67	22.59
				1	2	1	22.65	22.57	22.65	22.57
				1	5	1	22.69	22.44	22.69	22.44
			16QAM	3	0	1	22.50	22.30	22.50	22.30
				3	1	1	22.51	22.35	22.51	22.35
				3	2	1	22.60	22.40	22.60	22.40
				6	0	2	21.67	21.90	21.67	21.90
				1	0	0	23.58	23.76	23.58	23.76
				1	2	0	23.53	23.72	23.53	23.72
				1	5	0	23.57	23.76	23.57	23.76
			QPSK	3	0	0	23.40	23.60	23.40	23.60
				3	1	0	23.45	23.55	23.45	23.55
				3	2	0	23.48	23.58	23.48	23.58
	00505	000 5		6	0	1	22.66	22.84	22.66	22.84
1.4	20525	836.5		1	0	1	22.66	22.48	22.66	22.48
				1	2	1	22.67	22.48	22.67	22.48
				1	5	1	22.70	22.47	22.70	22.47
			16QAM	3	0	1	22.60	22.30	22.60	22.30
				3	1	1	22.50	22.25	22.50	22.25
				3	2	1	22.61	22.35	22.61	22.35
				6	0	2	21.61	21.70	21.61	21.70
				1	0	0	23.40	23.94	23.40	23.94
				1	2	0	23.41	23.86	23.41	23.86
				1	5	0	23.40	23.92	23.40	23.92
			QPSK	3	0	0	23.30	23.70	23.30	23.70
				3	1	0	23.35	23.75	23.35	23.75
				3	2	0	23.36	23.80	23.36	23.80
	00010	0.40.0		6	0	1	22.52	22.87	22.52	22.87
	20643	848.3		1	0	1	22.48	22.61	22.48	22.61
				1	2	1	22.48	22.62	22.48	22.62
				1	5	1	22.52	22.58	22.52	22.58
			16QAM	3	0	1	22.40	22.40	22.40	22.40
				3	1	1	22.45	22.45	22.45	22.45
				3	2	1	22.48	22.50	22.48	22.50
				6	0	2	21.57	21.71	21.57	21.71
	1				-					

8.4.4. LTE Band 13

DW		E						Avg Pw	r (dBm)	
BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	HE	AD	ВО	DY
(1711 12)		(1711 12)		raiocation	Otari		UAT	LAT	UAT	LAT
				1	0	0	23.70	24.00	23.70	24.00
				1	24	0	23.70	24.00	23.70	24.00
				1	49	0	23.60	24.00	23.60	24.00
			QPSK	25	0	1	22.60	23.00	22.60	23.00
				25	12	1	22.70	23.00	22.70	23.00
				25	24	1	22.60	23.00	22.60	23.00
10	23230	782.0		50	0	1	22.70	23.00	22.70	23.00
10	23230	702.0		1	0	1	22.60	22.76	22.60	22.76
				1	24	1	22.70	22.65	22.70	22.65
				1	49	1	22.70	22.78	22.70	22.78
			16QAM	25	0	2	21.85	21.91	21.85	21.91
				25	12	2	21.82	21.86	21.82	21.86
				25	24	2	21.79	21.83	21.79	21.83
				50	0	2	21.83	21.91	21.83	21.91

LTE Band	13 Measure	ea Kesults	(continued	1)				Avg Pw	r (dBm)	
BW	Ch	Freq.	Mode	UL RB	UL RB	MPR	HE			DY
(MHz)	CII	(MHz)	Mode	Allocation	Start	IVIII	UAT	LAT	UAT	LAT
				1	0	0	23.61	23.74	23.61	23.74
				1	12	0	23.58	23.73	23.58	23.73
				1	24	0	23.51	23.77	23.51	23.77
			QPSK	12	0	1	22.57	22.87	22.57	22.87
				12	6	1	22.58	22.87	22.58	22.87
				12	11	1	22.44	22.87	22.44	22.87
				25	0	1	22.67	22.85	22.67	22.85
	23207	779.5		1	0	1	22.40	22.76	22.40	22.76
				1	12	1	22.55	22.72	22.55	22.72
				1	24	1	22.63	22.64	22.63	22.64
			16QAM	12	0	2	21.46	21.82	21.46	21.82
				12	6	2	21.50	21.81	21.50	21.81
				12	11	2	21.52	21.81	21.52	21.81
				25	0	2	21.54	21.78	21.54	21.78
				1	0	0	23.61	23.74	23.61	23.74
				1	12	0	23.58	23.73	23.58	23.73
				1	24	0	23.56	23.77	23.56	23.77
			QPSK	12	0	1	22.57	22.87	22.57	22.87
				12	6	1	22.68	22.87	22.68	22.87
				12	11	1	22.59	22.87	22.59	22.87
5	23230	782.0		25	0	1	22.67	22.85	22.67	22.85
5	23230	762.0		1	0	1	22.55	22.76	22.55	22.76
				1	12	1	22.65	22.77	22.65	22.77
				1	24	1	22.63	22.74	22.63	22.74
			16QAM	12	0	2	21.56	21.82	21.56	21.82
				12	6	2	21.55	21.81	21.55	21.81
				12	11	2	21.57	21.81	21.57	21.81
				25	0	2	21.59	21.88	21.59	21.88
				1	0	0	23.61	23.74	23.61	23.74
				1	12	0	23.58	23.73	23.58	23.73
				1	24	0	23.56	23.77	23.56	23.77
			QPSK	12	0	1	22.57	22.87	22.57	22.87
				12	6	1	22.68	22.87	22.68	22.87
				12	11	1	22.54	22.87	22.54	22.87
	23255	3255 784.5		25	0	1	22.67	22.85	22.67	22.85
	20200	7.54.0		1	0	1	22.55	22.76	22.55	22.76
				1	12	1	22.65	22.77	22.65	22.77
				1	24	1	22.68	22.64	22.68	22.64
			16QAM	12	0	2	21.56	21.82	21.56	21.82
				12	6	2	21.55	21.81	21.55	21.81
				12	11	2	21.57	21.81	21.57	21.81
				25	0	2	21.59	21.88	21.59	21.88

8.4.5. LTE Band 17

DM		Eron		III DD	III DD			Avg Pw	ır (dBm)	
BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	HE	AD	ВС	DY
(1711 12)		(1711 12)		Allocation	Otart		UAT	LAT	UAT	LAT
				1	0	0	23.67	23.75	23.67	23.75
				1	24	0	23.58	23.85	23.58	23.85
				1	49	0	23.63	23.82	23.63	23.82
			QPSK	25	0	1	22.82	22.93	22.82	22.93
				25	12	1	22.74	23.01	22.74	23.01
				25	24	1	22.74	22.99	22.74	22.99
	23780	709.0		50	0	1	22.79	23.02	22.79	23.02
	23700	703.0		1	0	1	22.56	22.76	22.56	22.76
				1	24	1	22.52	22.80	22.52	22.80
				1	49	1	22.50	22.74	22.50	22.74
			16QAM	25	0	2	21.78	21.91	21.78	21.91
				25	12	2	21.80	21.96	21.80	21.96
				25	24	2	21.80	22.02	21.80	22.02
				50	0	2	21.73	22.03	21.73	22.03
				1	0	0	23.70	24.00	23.70	24.00
				1	24	0	23.70	24.00	23.70	24.00
				1	49	0	23.70	24.00	23.70	24.00
			QPSK	25	0	1	22.70	23.00	22.70	23.00
				25	12	1	22.70	23.00	22.70	23.00
	23790 710.0			25	24	1	22.60	23.00	22.60	23.00
10		710.0)	50	0	1	22.70	23.00	22.70	23.00
				1	0	1	22.59	22.70	22.59	22.70
				1	24	1	22.48	22.74	22.48	22.74
				1	49	1	22.72	22.78	22.72	22.78
			16QAM	25	0	2	21.78	22.01	21.78	22.01
				25	12	2	21.79	22.02	21.79	22.02
				25	24	2	21.81	21.99	21.81	21.99
				50	0	2	21.74	22.02	21.74	22.02
				1	0	0	23.65	23.73	23.65	23.73
				1	24	0	23.59	23.87	23.59	23.87
				1	49	0	23.70	23.81	23.70	23.81
			QPSK	25	0	1	22.82	23.04	22.82	23.04
				25	12	1	22.76	23.00	22.76	23.00
	23800 711.0			25	24	1	22.78	22.95	22.78	22.95
			50	0	1	22.77	23.03	22.77	23.03	
			1	0	1	22.57	22.70	22.57	22.70	
			1	24	1	22.54	22.76	22.54	22.76	
		400	1	49	1	22.70	22.76	22.70	22.76	
		16QAM	25	0	2	21.79	22.00	21.79	22.00	
				25	12	2	21.76	21.98	21.76	21.98
			25	24	2	21.75	21.99	21.75	21.99	
			50	0	2	21.77	21.99	21.77	21.99	

LTE Band	17 Measure	ed Results	(continued	<u>d)</u>				A	w (dD)	
BW	C!	Freq.		UL RB	UL RB	MED			/r (dBm)	NDV
(MHz)	Ch	(MHz)	Mode	Allocation	Start	MPR	UAT	AD LAT	UAT	DDY
				1	0	0	23.70	23.80	23.70	23.80
				1	12	0	23.64	23.76	23.64	23.76
				1	24	0	23.66	23.90	23.66	23.90
			QPSK	12	0	1	22.67	22.96	22.67	22.96
				12	6	1	22.67	22.94	22.67	22.94
				12	11	1	22.59	22.96	22.59	22.96
		700 5		25	0	1	22.67	22.90	22.67	22.90
	23755	706.5		1	0	1	22.29	22.75	22.29	22.75
				1	12	1	22.29	22.80	22.29	22.80
				1	24	1	22.18	22.74	22.18	22.74
			16QAM	12	0	2	21.15	21.88	21.15	21.88
				12	6	2	21.22	21.87	21.22	21.87
				12	11	2	21.26	21.98	21.26	21.98
				25	0	2	21.27	21.96	21.27	21.96
				1	0	0	23.62	23.78	23.62	23.78
				1	12	0	23.59	23.83	23.59	23.83
				1	24	0	23.63	23.87	23.63	23.87
			QPSK	12	0	1	22.67	22.96	22.67	22.96
				12	6	1	22.67	23.00	22.67	23.00
				12	11	1	22.57	22.97	22.57	22.97
5	23790	710.0		25	0	1	22.64	22.98	22.64	22.98
	20700	710.0		1	0	1	22.26	22.79	22.26	22.79
				1	12	1	22.25	22.74	22.25	22.74
				1	24	1	22.16	22.77	22.16	22.77
			16QAM	12	0	2	21.15	21.93	21.15	21.93
				12	6	2	21.25	21.94	21.25	21.94
				12	11	2	21.25	21.95	21.25	21.95
				25	0	2	21.27	21.98	21.27	21.98
				1	0	0	23.60	23.86	23.60	23.86
				1	12	0	23.62	23.79	23.62	23.79
				1	24	0	23.67	23.81	23.67	23.81
			QPSK	12	0	1	22.69	22.97	22.69	22.97
				12	6	1	22.68	22.97	22.68	22.97
				12	11	1	22.59	22.94	22.59	22.94
	23825	713.5		25	0	1	22.67	22.98	22.67	22.98
				1	0	1	22.27	22.79	22.27	22.79
				1	12	1	22.27	22.79	22.27	22.79
			400	1	24	1	22.19	22.79	22.19	22.79
			16QAM	12	0	2	21.17	21.94	21.17	21.94
				12	6	2	21.24	21.91	21.24	21.91
				12	11	2	21.24	21.91	21.24	21.91
				25	0	2	21.24	21.93	21.24	21.93

8.4.6. LTE Band 25

Measured		_		55	55			Avg Pw	ır (dBm)	
BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	HE	AD	ВО	DY
(1711 12)		(1711 12)		Allocation	Start		UAT	LAT	UAT	LAT
				1	0	0	19.90	23.40	23.10	18.40
				1	49	0	19.90	23.50	23.20	18.50
				1	99	0	19.90	23.40	23.10	18.30
			QPSK	50	0	1	19.10	22.40	22.10	17.50
				50	24	1	19.10	22.40	22.20	17.50
				50	49	1	19.10	22.40	22.10	17.40
	26140	1860.0		100	0	1	19.10	22.40	22.30	17.50
	20140	1000.0		1	0	1	19.10	22.40	21.80	17.50
				1	49	1	19.10	22.40	21.92	17.40
				1	99	1	19.10	22.40	22.05	17.43
			16QAM	50	0	2	18.10	21.40	21.06	16.80
				50	24	2	18.10	21.40	21.14	16.56
				50	49	2	18.10	21.40	21.30	16.50
				100	0	2	18.10	21.40	21.16	16.50
				1	0	0	20.10	23.50	23.40	18.30
				1	49	0	20.10	23.50	23.40	18.50
				1	99	0	20.10	23.50	23.30	18.40
			QPSK	50	0	1	19.10	22.50	22.30	17.50
				50	24	1	19.10	22.50	22.40	17.50
				50	49	1	19.10	22.50	22.40	17.50
20	26365	1882.5		100	0	1	19.10	22.40	22.30	17.50
				1	0	1	19.00	22.40	22.02	17.50
				1	49	1	19.00	22.40	21.99	17.50
				1	99	1	19.10	22.40	21.92	17.43
			16QAM	50	0	2	18.10	21.50	21.35	16.80
				50	24	2	18.10	21.50	21.28	16.56
				50	49	2	18.10	21.50	21.20	16.50
				100	0	2	18.10	21.50	21.28	16.50
				1	0	0	19.90	23.30	23.20	18.40
				1	49	0	19.90	23.40	23.40	18.50
				1	99	0	19.90	23.40	23.30	18.30
			QPSK	50	0	1	19.10	22.40	22.20	17.40
				50	24	1	19.10	22.40	22.40	17.50
				50	49	1	19.10	22.40	22.30	17.50
	26590	1905.0		100	0	1	19.10	22.40	22.30	17.50
				1	0	1	19.00	22.40	21.98	17.50
				1	49	1	19.10	22.30	21.98	17.40
			400	1	99	1	19.10	22.40	22.00	17.43
			16QAM	50	0	2	18.10	21.40	21.38	16.80
			50	24	2	18.10	21.50	21.40	16.56	
				50	49	2	18.10	21.50	21.39	16.50
				100	0	2	18.10	21.50	21.39	16.50

LTE Band	25 Measure I	ed Results I	(continued	1)				Λνα Ρω	r (dBm)	
BW	Ch	Freq.	Mode	UL RB	UL RB	MPR	HE			DY
(MHz)	CII	(MHz)	Mode	Allocation	Start	IVIPIC	UAT	LAT	UAT	LAT
				1	0	0	19.90	23.21	23.04	18.40
				1	37	0	19.90	23.21	23.08	18.50
				1	74	0	19.90	23.21	23.09	18.30
			QPSK	36	0	1	19.10	22.36	22.08	17.50
				36	16	1	19.10	22.39	22.19	17.50
				36	35	1	19.10	22.34	22.04	17.40
	26115	1857.5		75	0	1	19.10	22.33	22.24	17.50
	20113	1037.3		1	0	1	19.10	22.14	21.84	17.50
				1	37	1	19.10	22.11	21.88	17.40
				1	74	1	19.10	22.11	21.98	17.43
			16QAM	36	0	2	18.10	21.37	21.05	16.80
				36	16	2	18.10	21.35	21.08	16.56
				36	35	2	18.10	21.33	21.16	16.50
				75	0	2	18.10	21.35	21.13	16.50
				1	0	0	20.10	23.22	23.24	18.30
			QPSK	1	37	0	20.10	23.21	23.18	18.50
				1	74	0	20.10	23.24	23.07	18.40
				36	0	1	19.10	22.44	22.28	17.50
				36	16	1	19.10	22.48	22.31	17.50
				36	35	1	19.10	22.36	22.24	17.50
15	26365	1882.5		75	0	1	19.10	22.30	22.24	17.50
				1	0	1	19.00	22.11	21.96	17.50
				1	37	1	19.00	22.11	21.94	17.50
				1	74	1	19.10	22.12	21.84	17.43
			16QAM	36	0	2	18.10	21.47	21.36	16.80
				36	16	2	18.10	21.50	21.27	16.56
				36	35	2	18.10	21.39	21.20	16.50
				75	0	2	18.10	21.57	21.28	16.50
				1	0	0	19.90	23.04	23.16	18.40
				1	37	0	19.90	23.11	23.26	18.50
			ODOK	1	74	0	19.90	23.10	23.20	18.30
			QPSK	36	0	1	19.10	22.24	22.07	17.40
				36	16	1	19.10	22.27	22.34	17.50
				36	35	1	19.10	22.19	22.30	17.50
	26615	1907.5		75 1	0	1	19.10	22.28	22.20	17.50
				1	37	1	19.00	22.11	21.97	17.50 17.40
				1	74	1	19.10 19.10	22.00 22.11	22.00 21.97	17.40
			16QAM	36	0	2	18.10	21.23	21.35	16.80
			. 5 37 (17)	36	16	2	18.10	21.26	21.37	16.56
				36	35	2	18.10	21.21	21.36	16.50
				75	0	2	18.10	21.26	21.38	16.50
				73	U		10.10	21.20	21.30	10.50

		ed Results						Avg Pw	ır (dBm)	
BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	HE	AD	ВО	DY
(IVII 12)		(1711 12)		Allocation	Start		UAT	LAT	UAT	LAT
			QPSK	1	0	0	19.90	23.37	23.02	18.40
				1	24	0	20.10	23.32	23.06	18.30
				1	49	0	20.00	23.30	23.07	18.30
				25	0	1	18.90	22.37	22.04	17.40
				25	12	1	18.90	22.34	22.13	17.30
				25	24	1	19.00	22.37	22.08	17.40
	26090	1855.0		50	0	1	19.00	22.39	22.07	17.40
	20090	30 1000.0		1	0	1	18.90	22.21	21.83	17.40
				1	24	1	18.80	22.17	21.89	17.40
				1	49	1	18.80	22.19	21.90	17.40
			16QAM	25	0	2	17.90	21.37	21.10	16.40
				25	12	2	18.00	21.33	21.09	16.50
				25	24	2	18.00	21.36	21.12	16.30
				50	0	2	18.00	21.35	21.05	16.40
			QPSK	1	0	0	20.10	23.40	23.24	18.40
				1	24	0	19.90	23.44	23.18	18.40
				1	49	0	19.90	23.50	23.08	18.40
				25	0	1	19.00	22.46	22.24	17.50
				25	12	1	19.00	22.40	22.27	17.30
				25	24	1	19.00	22.38	22.18	17.30
10	26365	1882.5		50	0	1	19.00	22.32	22.27	17.40
		1002.0		1	0	1	19.10	22.28	21.93	17.40
				1	24	1	18.80	22.30	21.99	17.40
				1	49	1	18.80	22.37	21.96	17.40
			16QAM	25	0	2	18.00	21.40	21.32	16.50
				25	12	2	18.00	21.45	21.21	16.50
				25	24	2	18.10	21.46	21.16	16.30
				50	0	2	18.00	21.46	21.26	16.40
				1	0	0	20.10	23.18	23.06	18.30
				1	24	0	19.90	23.30	23.32	18.50
				1	49	0	19.90	23.39	23.14	18.50
			QPSK	25	0	1	19.00	22.28	22.12	17.40
				25	12	1	19.00	22.29	22.36	17.40
				25	24	1	19.00	22.30	22.30	17.30
	26640	1910.0		50	0	1	19.10	22.15	22.29	17.50
				1	0	1	19.10	22.31	21.91	17.50
				1	24	1	19.00	22.26	21.98	17.50
			400 444	1	49	1	18.90	22.26	21.96	17.50
			16QAM	25	0	2	18.00	21.33	21.30	16.50
				25	12	2	18.00	21.25	21.33	16.40
				25	24	2	18.00	21.27	21.39	16.40
				50	0	2	18.10	21.49	21.31	16.40

DM		From		III DD	III DD			Avg Pw	r (dBm)	
BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	HE	AD	ВО	DY
(1711 12)		(1711 12)		Allocation	Otart		UAT	LAT	UAT	LAT
				1	0	0	20.00	23.31	23.02	18.30
				1	12	0	19.90	23.31	22.99	18.30
				1	24	0	19.90	23.36	23.08	18.40
			QPSK	12	0	1	19.00	22.36	22.07	17.30
				12	6	1	19.10	22.34	22.08	17.30
				12	11	1	18.80	22.36	22.08	17.30
	26065	1050 5		25	0	1	18.80	22.39	22.09	17.30
	20000	1852.5		1	0	1	18.80	22.35	21.97	17.30
				1	12	1	18.80	22.31	21.94	17.30
				1	24	1	19.00	22.34	22.08	17.40
			16QAM	12	0	2	17.90	21.39	21.05	16.40
				12	6	2	18.00	21.39	21.00	16.40
				12	11	2	18.00	21.36	21.00	16.30
			 	25	0	2	18.00	21.33	21.20	16.30
			QPSK	1	0	0	19.90	23.27	23.24	18.30
				1	12	0	19.90	23.21	23.14	18.30
				1	24	0	19.90	23.24	23.07	18.30
				12	0	1	19.00	22.43	22.27	17.40
				12	6	1	19.00	22.38	22.22	17.40
				12	11	1	18.80	22.33	22.20	17.40
_				25	0	1	19.00	22.33	22.19	17.40
5	26365	1882.5		1	0	1	19.00	22.37	21.96	17.40
				1	12	1	19.00	22.38	21.97	17.40
				1	24	1	19.00	22.36	21.98	17.40
			16QAM	12	0	2	18.10	21.37	21.28	16.30
				12	6	2	18.10	21.38	21.22	16.30
				12	11	2	18.10	21.23	21.19	16.30
				25	0	2	18.10	21.57	21.26	16.40
				1	0	0	19.90	23.07	23.09	18.30
				1	12	0	20.00	23.10	23.28	18.40
				1	24	0	20.00	23.12	23.17	18.30
			QPSK	12	0	1	19.10	22.19	22.10	17.40
				12	6	1	19.00	22.15	22.36	17.40
				12	11	1	19.10	22.13	22.23	17.40
	00005	4040.5		25	0	1	19.10	22.13	22.29	17.40
	26665	1912.5		1	0	1	18.80	22.33	21.92	17.40
				1	12	1	19.00	22.23	21.94	17.40
				1	24	1	19.10	22.26	21.97	17.50
			16QAM	12	0	2	18.00	21.15	21.30	16.30
				12	6	2	18.10	21.21	21.31	16.30
				12	11	2	18.10	21.20	21.36	16.40
		ĺ		25	0	2	18.10	21.26	21.38	16.40

LTE Band	25 Measur	ed Results	(continued	<u>)</u>						
BW		Eros		UL RB	UL RB			Avg Pw	r (dBm)	
(MHz)	Ch	Freq. (MHz)	Mode	Allocation	Start	MPR	HE	AD	ВО	DY
(**************************************		(**** :=)					UAT	LAT	UAT	LAT
				1	0	0	20.00	23.37	23.05	18.50
				1	7	0	20.00	23.24	23.01	18.50
				1	14	0	20.00	23.33	23.06	18.50
			QPSK	8	0	1	19.00	22.36	22.05	17.40
				8	4	1	19.00	22.35	22.08	17.30
				8	7	1	19.00	22.39	22.04	17.30
	26055	1851.5		15	0	1	19.00	22.34	22.07	17.30
	20033	1051.5		1	0	1	19.00	22.24	21.98	17.40
				1	7	1	19.00	22.20	21.84	17.40
				1	14	1	19.00	22.28	21.92	17.40
			16QAM	8	0	2	18.00	21.39	21.07	16.30
				8	4	2	17.90	21.33	21.08	16.50
				8	7	2	18.00	21.39	21.07	16.50
				15	0	2	17.90	21.34	21.06	16.50
			QPSK	1	0	0	20.00	23.32	23.30	18.50
				1	7	0	19.90	23.22	23.14	18.50
				1	14	0	19.90	23.25	23.09	18.50
				8	0	1	19.10	22.39	22.20	17.40
				8	4	1	19.00	22.39	22.19	17.50
				8	7	1	19.00	22.30	22.26	17.30
0	00005	4000 5		15	0	1	19.00	22.34	22.19	17.30
3	26365	1882.5		1	0	1	19.00	22.23	21.95	17.30
				1	7	1	19.00	22.11	21.99	17.30
				1	14	1	19.00	22.18	21.98	17.50
			16QAM	8	0	2	18.10	21.45	21.27	16.40
				8	4	2	17.90	21.46	21.24	16.40
				8	7	2	18.00	21.40	21.24	16.40
				15	0	2	18.00	21.41	21.27	16.40
				1	0	0	19.90	23.09	23.11	18.40
				1	7	0	19.90	23.12	23.26	18.40
				1	14	0	20.10	23.11	23.22	18.40
			QPSK	8	0	1	19.10	22.17	22.09	17.40
				8	4	1	19.00	22.10	22.39	17.50
				8	7	1	19.10	22.12	22.27	17.30
				15	0	1	19.10	22.19	22.27	17.40
	26675	1913.5		1	0	1	19.10	22.11	21.99	17.30
				1	7	1	19.00	22.02	21.98	17.30
				1	14	1	19.10	22.10	21.97	17.50
			16QAM	8	0	2	18.00	21.21	21.34	16.40
				8	4	2	18.10	21.21	21.33	16.40
				8	7	2	18.10	21.21	21.35	16.40
				15	0	2	18.00	21.21	21.37	16.40
	L			10	J		10.00	Z1.Z1	21.31	10.40

LTE Band	25 Measure	ed Results	(continued	<u>d)</u>				Ava Du	ır (dDm)	
BW	Ch	Freq.	Mode	UL RB	UL RB	MDD	Avg Pwr (dBm) HEAD BODY			
(MHz)	Ch	(MHz)	Mode	Allocation	Start	MPR	UAT	LAT	UAT	LAT
				1	0	0	20.00	23.32	23.04	18.30
				1	2	0	19.80	23.32	23.03	18.50
				1	5	0	19.80	23.36	23.06	18.30
			QPSK	3	0	0	19.80	23.25	23.00	18.30
			α. σ. τ	3	1	0	19.80	23.20	22.99	18.40
				3	2	0	19.80	23.26	23.01	18.40
				6	0	1	19.00	22.12	22.11	17.50
	26047	1850.7		1	0	1	18.90	22.11	21.96	17.50
				1	2	1	18.90	22.13	21.95	17.50
				1	5	1	18.90	22.13	22.09	17.40
			16QAM	3	0	1	18.90	22.10	21.80	17.40
				3	1	1	19.10	22.05	21.85	17.40
				3	2	1	19.10	22.00	21.82	17.30
				6	0	2	18.00	21.10	21.14	16.50
				1	0	0	19.90	23.37	23.24	18.40
			QPSK	1	2	0	19.80	23.30	23.19	18.40
				1	5	0	19.80	23.28	23.29	18.30
				3	0	0	19.90	23.41	23.10	18.30
				3	1	0	19.90	23.30	23.05	18.30
				3	2	0	19.90	23.28	23.12	18.30
4.4	00005	4000 5		6	0	1	18.90	22.37	22.22	17.40
1.4	26365	1882.5		1	0	1	19.00	22.32	21.96	17.40
				1	2	1	19.00	22.34	21.95	17.30
				1	5	1	19.10	22.28	21.98	17.30
			16QAM	3	0	1	19.10	22.25	21.80	17.30
				3	1	1	18.90	22.20	21.75	17.30
				3	2	1	18.90	22.18	21.76	17.30
				6	0	2	18.00	21.47	21.29	16.50
				1	0	0	19.90	23.10	23.16	18.40
				1	2	0	20.00	23.11	23.39	18.40
				1	5	0	20.00	23.13	23.25	18.40
			QPSK	3	0	0	19.90	23.16	23.12	18.30
				3	1	0	19.90	23.09	23.20	18.30
				3	2	0	19.90	23.15	23.25	18.30
	26683	1914.3		6	0	1	18.90	22.15	22.30	17.50
				1	0	1	19.10	22.15	21.98	17.40
				1	2	1	19.00	22.11	21.99	17.40
				1	5	1	19.10	22.11	21.98	17.30
			16QAM	3	0	1	19.10	22.15	21.70	17.30
				3	1	1	18.90	22.11	21.75	17.30
				3	2	1	18.90	22.09	21.80	17.50
				6	0	2	17.80	21.31	21.37	16.40

8.4.7. LTE Band 26

DVA		F	eq.	ULRB ULRB	LII DD		Avg Pwr (dBm)				
BW (MHz)	Ch	Freq. (MHz)	Mode	Allocation	OL RB Start	MPR	HE	AD	ВО	DY	
(1711 12)		(1711 12)		7.1100041011	Otart		UAT	LAT	UAT	LAT	
				1	0	0	22.90	23.00	22.90	23.00	
				1	24	0	23.00	23.00	23.00	23.00	
				1	49	0	23.00	23.00	23.00	23.00	
			QPSK	25	0	1	21.80	21.90	21.80	21.90	
				25	12	1	22.00	22.00	22.00	22.00	
				25	24	1	21.90	22.00	21.90	22.00	
10	26740	819.0		50	0	1	22.00	22.00	22.00	22.00	
10	20140	013.0	3.0	1	0	1	21.64	21.64	21.64	21.64	
				1	24	1	21.97	21.77	21.97	21.77	
				1	49	1	21.86	21.76	21.86	21.76	
		16QAM	25	0	2	20.74	20.73	20.74	20.73		
				25	12	2	20.70	20.76	20.70	20.76	
				25	24	2	20.46	20.70	20.46	20.70	
				50	0	2	20.72	20.60	20.72	20.60	
	Гиол		LII DD				. –	/ · \			
D\A/		Eroa		LII DD	LII DD				r (dBm)		
BW (MHz)	Ch	Freq.	Mode	UL RB Allocation	UL RB Start	MPR	HE	Avg Pw AD		DY	
BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	HE UAT			DDY	
	Ch		Mode			MPR 0		AD	ВО		
	Ch		Mode	Allocation	Start		UAT	AD LAT	BC UAT	LAT	
	Ch		Mode	Allocation 1	Start 0	0	UAT 22.80	AD LAT 22.86	UAT 22.80	LAT 22.86	
	Ch		Mode QPSK	Allocation 1 1	0 12	0	UAT 22.80 22.77	AD LAT 22.86 22.81	UAT 22.80 22.77	22.86 22.81	
	Ch			Allocation 1 1 1	0 12 24	0 0 0	UAT 22.80 22.77 22.79	AD LAT 22.86 22.81 22.82	UAT 22.80 22.77 22.79	22.86 22.81 22.82	
	Ch			Allocation 1 1 1 1 12	0 12 24 0	0 0 0 1	22.80 22.77 22.79 21.90	AD LAT 22.86 22.81 22.82 22.00	UAT 22.80 22.77 22.79 21.90	22.86 22.81 22.82 22.00	
(MHz)		(MHz)		1 1 1 12 12 12	0 12 24 0 6	0 0 0 1	22.80 22.77 22.79 21.90 21.91	AD LAT 22.86 22.81 22.82 22.00 21.97	22.80 22.77 22.79 21.90 21.91	22.86 22.81 22.82 22.00 21.97	
	Ch 26865			1 1 1 1 1 1 2 1 2 1 2 1 2 1 2	0 12 24 0 6 11	0 0 0 1 1	22.80 22.77 22.79 21.90 21.91 21.91	AD LAT 22.86 22.81 22.82 22.00 21.97 21.94	22.80 22.77 22.79 21.90 21.91 21.91	22.86 22.81 22.82 22.00 21.97 21.94	
(MHz)		(MHz)		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 12 24 0 6 11 0	0 0 0 1 1 1	UAT 22.80 22.77 22.79 21.90 21.91 21.88	AD LAT 22.86 22.81 22.82 22.00 21.97 21.94 21.96	22.80 22.77 22.79 21.90 21.91 21.91 21.88	22.86 22.81 22.82 22.00 21.97 21.94 21.96	
(MHz)		(MHz)		1 1 1 12 12 12 25 1	0 12 24 0 6 11 0 0	0 0 0 1 1 1 1	22.80 22.77 22.79 21.90 21.91 21.91 21.88 21.99	AD LAT 22.86 22.81 22.82 22.00 21.97 21.94 21.96 21.99	22.80 22.77 22.79 21.90 21.91 21.88 21.99	22.86 22.81 22.82 22.00 21.97 21.94 21.96 21.99	
(MHz)		(MHz)		1 1 1 12 12 12 25 1 1 1	0 12 24 0 6 11 0 0 12	0 0 0 1 1 1 1 1	UAT 22.80 22.77 22.79 21.90 21.91 21.91 21.88 21.99 21.98	AD LAT 22.86 22.81 22.82 22.00 21.97 21.94 21.96 21.99 21.99	22.80 22.77 22.79 21.90 21.91 21.91 21.88 21.99 21.98	22.86 22.81 22.82 22.00 21.97 21.94 21.96 21.99 21.98	
(MHz)		(MHz)	QPSK	Allocation 1 1 1 12 12 12 25 1 1 1 1 12 25 1 1 1 1	0 12 24 0 6 11 0 12 24 0 6 6 11 0 0 12 24 0 6	0 0 0 1 1 1 1 1 1	UAT 22.80 22.77 22.79 21.90 21.91 21.88 21.99 21.98 22.00 20.89 20.89	AD LAT 22.86 22.81 22.82 22.00 21.97 21.94 21.96 21.99 21.98 22.00 20.95 20.89	22.80 22.77 22.79 21.90 21.91 21.91 21.88 21.99 21.98 22.00	22.86 22.81 22.82 22.00 21.97 21.94 21.96 21.99 21.98 22.00 20.95 20.89	
(MHz)		(MHz)	QPSK	Allocation 1 1 1 12 12 12 25 1 1 1 1	0 12 24 0 6 11 0 0 12 24 0 0	0 0 0 1 1 1 1 1 1 1 1	22.80 22.77 22.79 21.90 21.91 21.88 21.99 21.98 22.00 20.89	AD LAT 22.86 22.81 22.82 22.00 21.97 21.94 21.96 21.99 21.98 22.00 20.95	22.80 22.77 22.79 21.90 21.91 21.88 21.99 21.98 22.00 20.89	22.86 22.81 22.82 22.00 21.97 21.94 21.96 21.99 21.98 22.00 20.95	

LTE Band 26 Measured Results (continued)

LTE Band	20 Measur	eu Results	Continued				Avg Pwr (dBm)			
BW	Ch	Freq.	Mode	UL RB	UL RB	MPR	HE		BODY	
(MHz)		(MHz)		Allocation	Start		UAT	LAT	UAT	LAT
				1	0	0	22.84	22.89	22.84	22.89
				1	7	0	22.79	22.80	22.79	22.80
				1	14	0	22.79	22.84	22.79	22.84
			QPSK	8	0	1	21.94	22.02	21.94	22.02
				8	4	1	21.94	21.99	21.94	21.99
				8	7	1	21.87	21.97	21.87	21.97
	00705	000.0		15	0	1	21.96	21.97	21.96	21.97
	26705	26705 820.3		1	0	1	21.80	21.81	21.80	21.81
				1	7	1	21.69	21.72	21.69	21.72
				1	14	1	21.72	21.75	21.72	21.75
			16QAM	8	0	2	20.97	21.00	20.97	21.00
				8	4	2	20.96	21.00	20.96	21.00
				8	7	2	20.94	20.97	20.94	20.97
			<u> </u>	15	0	2	20.96	20.97	20.96	20.97
			QPSK	1	0	0	22.83	22.88	22.83	22.88
				1	7	0	22.75	22.76	22.75	22.76
				1	14	0	22.81	22.82	22.81	22.82
				8	0	1	21.89	21.97	21.89	21.97
				8	4	1	21.91	21.99	21.91	21.99
				8	7	1	21.86	21.97	21.86	21.97
3	26865	821.3		15	0	1	21.94	21.94	21.94	21.94
				1	0	1	21.72	21.83	21.72	21.83
				1	7	1	21.66	21.75	21.66	21.75
				1	14	1	21.71	21.76	21.71	21.76
			16QAM	8	0	2	20.97	20.98	20.97	20.98
				8	4	2	20.94	20.98	20.94	20.98
				8	7	2	20.96	20.98	20.96	20.98
				15	0	2	20.97	20.98	20.97	20.98
				1	0	0	22.85	22.91	22.85	22.91
				1	7	0	22.74	22.79	22.74	22.79
			0.701/	1	14	0	22.80	22.84	22.80	22.84
			QPSK	8	0	1	21.91	21.95	21.91	21.95
				8	4	1	21.88	21.96	21.88	21.96
				8	7	1	21.86	21.99	21.86	21.99
	27025	822.3		15	0	1	21.92	21.99	21.92	21.99
				1	0	1	21.73	21.81	21.73	21.81
				1	7	1	21.70	21.74	21.70	21.74
			160 ^ 1/4	1	14	1	21.68	21.77	21.68	21.77
			16QAM	8	0	2	20.96	20.97	20.96	20.97
				8	4	2	20.95	20.98	20.95	20.98
				8 1 <i>F</i>	7	2	20.94	20.95	20.94	20.95
				15	0	2	20.89	20.96	20.89	20.96

Note(s):

10/5 MHz Bandwidths 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 KDB941225 D05 SAR for LTE Devices.

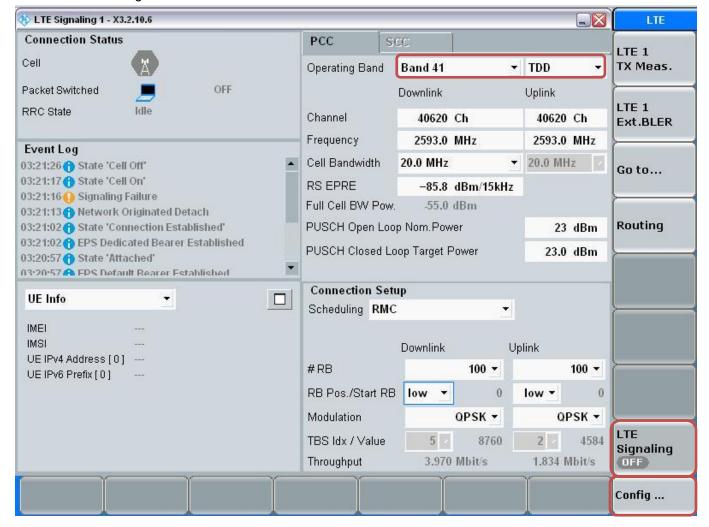
8.4.8. LTE Band 41

Measured Results

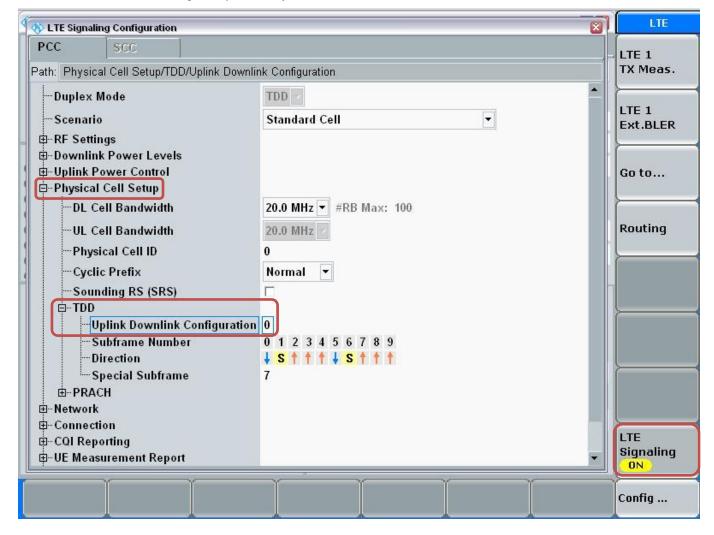
Procedure used to establish SAR test signal for LTE TDD Band 41

Set to CMW-500 with following parameters:

- Turn the LTE Signaling off using "ON | OFF" key
- Operating Band: Select Band 41 and TDD
- Go to "Config...."

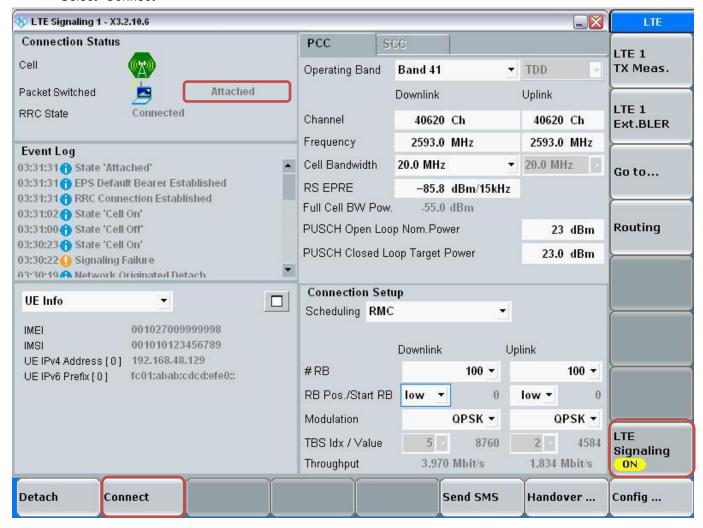


- Go to "Physical Cell Setup"
- Select "TDD" and Set "Uplink Downlink Configuration" to "0"
- Turn the cell on using "ON | OFF" key



Connect to EUT

- Turn the cell on using "ON | OFF" key
- After EUT is Attached
- Select "Connect"

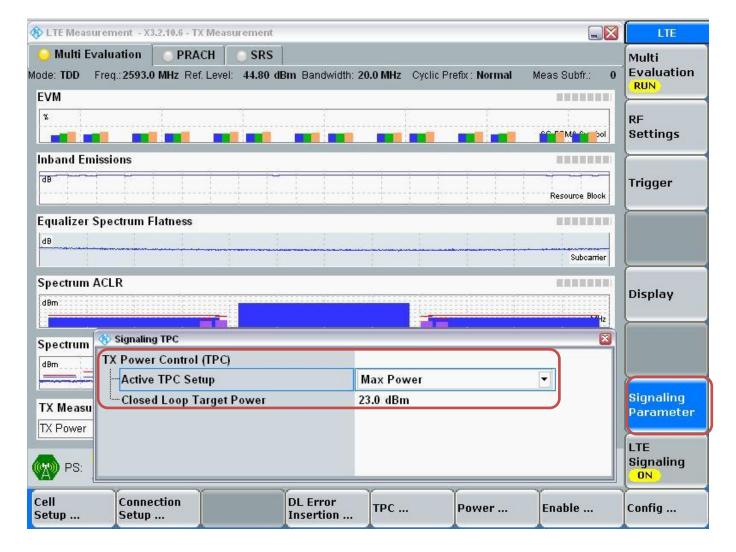


Max Power Setting

- Select "LTE 1 TX Meas."
- Press "RESTART | STOP" Soft key

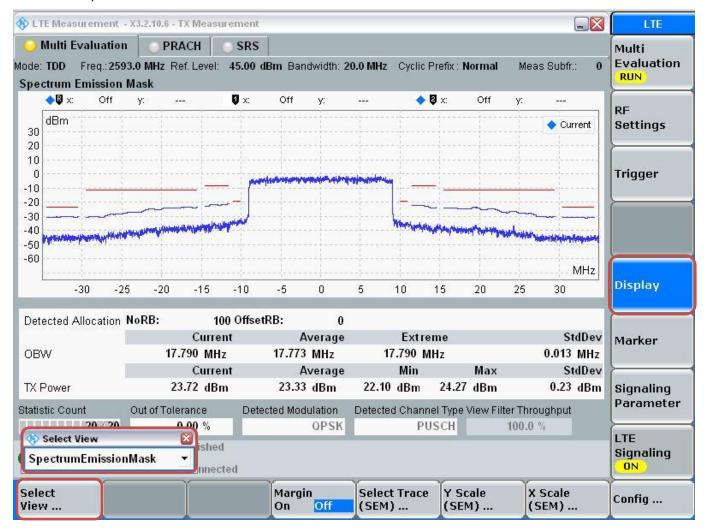


- Select "Signaling Parameter"
- Select "TX Power Control (TPC)" > Select "Active TPC Setup" to "Max Power" > Set "Closed Loop Target Power" to "23 dBm"



View TX Power

- Go to "Display"
- Select "Select View..."
- Select "Spectrum Emission Mask"



DW		Гтол		LII DD			Avg Pwr (dBm)			
BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	HE	AD	BODY	
(1411 12)		(111112)		Tulocation	Otart		UAT	LAT	UAT	LAT
				1	0	0	22.50	22.50	22.50	19.00
				1	49	0	22.50	22.50	22.50	19.00
				1	99	0	22.40	22.50	22.40	19.00
			QPSK	50	0	1	21.50	21.40	21.50	18.00
				50	24	1	21.50	21.40	21.50	18.00
				50	49	1	21.40	21.40	21.40	18.00
	39750	2506.0		100	0	1	21.50	21.40	21.50	18.00
	39730	2300.0		1	0	1	21.40	21.44	21.40	18.00
				1	49	1	21.40	21.62	21.40	18.00
				1	99	1	21.40	21.63	21.40	18.00
			16QAM	50	0	2	20.40	20.62	20.40	17.00
				50	24	2	20.40	20.70	20.40	17.00
				50	49	2	20.40	20.62	20.40	17.00
				100	0	2	20.50	20.63	20.50	17.00
			QPSK 9.5	1	0	0	22.50	22.50	22.50	18.90
				1	49	0	22.50	22.50	22.50	19.00
				1	99	0	22.40	22.50	22.40	19.00
				50	0	1	21.50	21.50	21.50	18.00
				50	24	1	21.50	21.40	21.50	18.00
				50	49	1	21.50	21.50	21.50	18.00
20	40105	2540.5		100	0	1	21.50	21.50	21.50	18.00
20	40185	2549.5		1	0	1	21.50	21.48	21.50	18.00
				1	49	1	21.50	21.47	21.50	18.00
				1	99	1	21.50	21.46	21.50	18.00
			16QAM	50	0	2	20.50	20.51	20.50	17.00
				50	24	2	20.50	20.49	20.50	17.00
				50	49	2	20.50	20.47	20.50	17.00
				100	0	2	20.50	20.51	20.50	17.00
				1	0	0	22.40	22.50	22.40	19.00
				1	49	0	22.50	22.50	22.50	19.00
				1	99	0	22.50	22.50	22.50	19.00
			QPSK	50	0	1	21.50	21.40	21.50	18.00
				50	24	1	21.50	21.40	21.50	18.00
				50	49	1	21.50	21.40	21.50	18.00
	40620	2593.0		100	0	1	21.50	21.50	21.50	18.00
	40020	2090.0		1	0	1	21.50	21.48	21.50	18.00
				1	49	1	21.50	21.47	21.50	18.00
				1	99	1	21.50	21.46	21.50	18.00
			16QAM	50	0	2	20.40	20.51	20.40	17.00
				50	24	2	20.50	20.49	20.50	17.00
				50	49	2	20.50	20.47	20.50	17.00
				100	0	2	20.50	20.51	20.50	17.00

LTE Band 41 Measured Results (continued)

		ed Results			55		Avg Pwr (dBm)			
BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	HE	AD	ВО	DY
(1711 12)		(1711 12)		Allocation	Otart		UAT	LAT	UAT	LAT
				1	0	0	22.50	22.50	22.50	19.00
				1	49	0	22.50	22.30	22.50	18.80
			QPSK	1	99	0	22.50	22.20	22.50	18.70
	41055 2636.5			50	0	1	21.50	21.50	21.50	18.00
				50	24	1	21.50	21.20	21.50	18.00
				50	49	1	21.50	21.20	21.50	18.00
		2636.5		100	0	1	21.50	21.30	21.50	18.00
		2030.3		1	0	1	21.50	21.48	21.50	18.00
			1	49	1	21.50	21.47	21.50	18.00	
				1	99	1	21.40	21.46	21.40	18.00
			16QAM	50	0	2	20.50	20.51	20.50	17.00
				50	24	2	20.50	20.49	20.50	17.00
				50	49	2	20.50	20.47	20.50	17.00
20				100	0	2	20.50	20.51	20.50	17.00
20				1	0	0	22.40	22.00	22.40	19.00
				1	49	0	22.40	22.30	22.40	19.00
				1	99	0	22.40	22.30	22.40	19.00
			QPSK	50	0	1	21.30	21.00	21.30	18.00
				50	24	1	21.40	21.30	21.40	18.00
				50	49	1	21.30	21.30	21.30	18.00
	41490	2680.0		100	0	1	21.40	21.10	21.40	18.00
	41490	2000.0		1	0	1	21.40	21.48	21.40	18.00
				1	49	1	21.40	21.47	21.40	18.00
				1	99	1	21.40	21.46	21.40	18.00
			16QAM	50	0	2	20.40	20.51	20.40	17.00
				50	24	2	20.40	20.49	20.40	17.00
				50	49	2	20.40	20.47	20.40	17.00
i				100	0	2	20.40	20.51	20.40	17.00

LTE Band	LTE Band 41 Measured Results (continued)										
BW		Eros		III DD	III DD			Avg Pw	r (dBm)		
(MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	HE	AD	ВО	DY	
((UAT	LAT	UAT	LAT	
				1	0	0	22.32	22.44	22.32	18.90	
				1	37	0	22.22	22.49	22.22	18.90	
			QPSK	1	74	0	22.25	22.48	22.25	18.90	
				36	0	1	21.20	21.31	21.20	17.90	
				36	16	1	21.21	21.37	21.21	17.70	
				36	35	1	21.24	21.39	21.24	17.80	
	39725	2503.5		75	0	1	21.22	21.29	21.22	17.80	
	00720	2303.3		1	0	1	21.15	21.14	21.15	17.70	
				1	37	1	21.13	21.10	21.13	17.70	
				1	74	1	21.13	21.11	21.13	17.70	
			16QAM	36	0	2	20.25	20.34	20.25	16.90	
				36	16	2	20.21	20.31	20.21	17.00	
				36	35	2	20.30	20.36	20.30	16.90	
				75	0	2	20.26	20.46	20.26	16.90	
				1	0	0	22.40	22.40	22.40	18.90	
				1	37	0	22.40	22.40	22.40	18.90	
			QPSK	1	74	0	22.40	22.40	22.40	18.90	
				36	0	1	21.40	21.50	21.40	17.90	
				36	16	1	21.40	21.40	21.40	17.90	
				36	35	1	21.40	21.20	21.40	17.90	
15	40173	2548.3		75	0	1	21.40	21.20	21.40	17.90	
15	40173	2040.3		1	0	1	21.40	21.20	21.40	17.90	
				1	37	1	21.40	21.10	21.40	18.00	
				1	74	1	21.40	21.20	21.40	17.80	
			16QAM	36	0	2	20.20	20.40	20.20	16.80	
				36	16	2	20.20	20.30	20.20	16.80	
				36	35	2	20.20	20.30	20.20	16.80	
				75	0	2	20.20	20.30	20.20	16.80	
				1	0	0	22.18	22.35	22.18	18.90	
				1	37	0	22.20	22.43	22.20	18.90	
				1	74	0	22.26	22.49	22.26	18.90	
			QPSK	36	0	1	21.21	21.40	21.21	17.90	
				36	16	1	21.26	21.30	21.26	17.90	
				36	35	1	21.22	21.44	21.22	17.90	
	40000	0500.0		75	0	1	21.23	21.44	21.23	17.70	
	40620	2593.0		1	0	1	21.28	21.21	21.28	17.70	
				1	37	1	21.20	21.22	21.20	17.70	
				1	74	1	21.21	21.22	21.21	17.70	
			16QAM	36	0	2	20.24	20.32	20.24	16.80	
				36	16	2	20.21	20.44	20.21	16.80	
				36	35	2	20.22	20.41	20.22	16.80	
				75	0	2	20.22	20.48	20.22	16.80	

LTE Band 41 Measured Results (continued)

		ed Results					Avg Pwr (dBm)			
BW (MHz)	Ch	Freq.	Mode	UL RB Allocation	UL RB Start	MPR	HE	AD	ВО	DY
(1711 12)		(MHz) Allocation S	Otart		UAT	LAT	UAT	LAT		
				1	0	0	22.40	22.30	22.40	18.90
				1	37	0	22.40	22.30	22.40	18.90
				1	74	0	22.30	22.30	22.30	18.70
			QPSK	36	0	1	21.50	21.50	21.50	17.90
				36	16	1	21.50	21.20	21.50	17.90
	41068 2637.8			36	35	1	21.50	21.20	21.50	17.90
		2627.9		75	0	1	21.50	21.30	21.50	17.70
			1	0	1	21.50	21.50	21.50	17.70	
				1	37	1	21.50	21.50	21.50	17.70
				1	74	1	21.40	21.40	21.40	17.80
			16QAM	36	0	2	20.40	20.50	20.40	16.90
				36	16	2	20.40	20.50	20.40	16.90
				36	35	2	20.40	20.50	20.40	16.90
15				75	0	2	20.40	20.30	20.40	16.80
15				1	0	0	22.36	21.98	22.36	18.90
				1	37	0	22.14	22.25	22.14	18.90
				1	74	0	22.11	22.18	22.11	18.90
			QPSK	36	0	1	21.02	20.95	21.02	17.90
				36	16	1	21.15	21.22	21.15	17.90
				36	35	1	21.01	21.23	21.01	17.90
	44545	2682.5		75	0	1	21.13	21.01	21.13	17.70
	41515	∠00∠.5		1	0	1	21.12	21.11	21.12	17.70
				1	37	1	21.12	21.11	21.12	17.70
				1	74	1	21.14	21.11	21.14	17.70
			16QAM	36	0	2	20.15	20.15	20.15	17.00
				36	16	2	20.13	20.14	20.13	16.90
				36	35	2	20.11	20.27	20.11	16.90
				75	0	2	20.10	20.27	20.10	16.80

LTE Band	41 Measur	ed Results	(continued	<u>)</u>		_				
BW		Freq.		UL RB	UL RB				r (dBm)	
(MHz)	Ch	(MHz)	Mode	Allocation Start		MPR		AD		DY
							UAT	LAT	UAT	LAT
				1	0	0	22.31	22.48	22.31	18.80
				1	24	0	22.20	22.50	22.20	18.80
			0.7017	1	49	0	22.19	22.48	22.19	18.80
			QPSK	25	0	1	21.23	21.37	21.23	17.80
				25	12	1	21.22	21.31	21.22	17.70
				25	24	1	21.11	21.39	21.11	17.80
	39700	2501.0		50	0	1	21.22	21.37	21.22	17.80
				1	0	1	21.17	21.14	21.17	17.70
				1	24	1	21.16	21.12	21.16	17.80
			400414	1	49	1	21.15	21.11	21.15	17.80
			16QAM	25	0	2	20.23	20.30	20.23	16.90
				25	12	2	20.21	20.31	20.21	17.00
				25	24	2	20.22	20.40	20.22	16.70
				50	0	2	20.20	20.48	20.20	16.80
				1	0	0	22.40	22.20	22.40	18.70
			QPSK	1	24	0	22.50	22.20	22.50	18.70
				1	49	0	22.50	22.40	22.50	18.90
				25	0	1	21.50	21.50	21.50	17.70
				25	12	1	21.50	21.40	21.50	17.70
				25	24	1	21.50	21.20	21.50	17.70
10	40160	2547.0		50	0	1	21.50	21.20	21.50	17.70
				1	0	1	21.50	21.20	21.50	17.90
				1	24	1	21.50	21.10	21.50	17.80
				1	49	1	21.50	21.20	21.50	17.80
			16QAM	25	0	2	20.30	20.40	20.30	16.80
				25	12	2	20.30	20.50	20.30	16.80
				25	24	2	20.30	20.30	20.30	16.80
				50	0	2	20.30	20.10	20.30	16.80
				1	0	0	22.24	22.41	22.24	18.80
				1	24	0	22.22	22.44	22.22	18.80
				1	49	0	22.25	22.43	22.25	18.80
			QPSK	25	0	1	21.21	21.32	21.21	17.80
				25	12	1	21.22	21.35	21.22	17.80
				25	24	1	21.22	21.38	21.22	17.80
	40620	2593.0		50	0	1	21.22	21.47	21.22	17.80
		40620 2593.0 -		1	0	1	21.28	21.20	21.28	17.80
				1	24	1	21.23	21.24	21.23	17.70
				1	49	1	21.24	21.23	21.24	17.80
			16QAM	25	0	2	20.11	20.38	20.11	16.80
				25	12	2	20.21	20.40	20.21	16.80
				25	24	2	20.21	20.47	20.21	16.90
				50	0	2	20.22	20.42	20.22	16.80

LTE Band 41 Measured Results (continued)

	41 Measure				LII DE			Avg Pw	/r (dBm)	
BW (MHz)	Ch	Freq. (MHz)	Mode	UL RB Allocation	UL RB Start	MPR	HE	AD	ВС	DY
(1711 12)		(1411 12)		Tulocation	Otart		UAT	LAT	UAT	LAT
				1	0	0	22.50	22.40	22.50	18.70
				1	24	0	22.50	22.30	22.50	18.70
				1	49	0	22.50	22.30	22.50	18.80
			QPSK	25	0	1	21.50	21.30	21.50	17.70
			25	12	1	21.50	21.30	21.50	17.90	
		11080 2639.0		25	24	1	21.50	21.20	21.50	17.90
	41080			50	0	1	21.50	21.30	21.50	17.70
	41000			1	0	1	21.50	21.30	21.50	17.70
				1	24	1	21.50	21.30	21.50	17.70
				1	49	1	21.40	21.40	21.40	17.80
			16QAM	25	0	2	20.30	20.40	20.30	16.90
				25	12	2	20.30	20.40	20.30	16.90
				25	24	2	20.30	20.40	20.30	16.80
10				50	0	2	20.30	20.20	20.30	16.80
10				1	0	0	22.14	21.97	22.14	18.80
				1	24	0	22.13	22.18	22.13	18.80
				1	49	0	22.14	22.15	22.14	18.80
			QPSK	25	0	1	21.03	20.97	21.03	17.80
				25	12	1	21.14	21.26	21.14	17.80
				25	24	1	21.02	21.26	21.02	17.80
	44540	2005.0		50	0	1	21.15	21.07	21.15	17.80
	41540	2685.0		1	0	1	21.10	21.11	21.10	17.80
				1	24	1	21.11	21.11	21.11	17.80
				1	49	1	21.15	21.11	21.15	17.80
			16QAM	25	0	2	20.11	20.30	20.11	17.00
				25	12	2	20.14	20.27	20.14	16.90
				25	24	2	20.12	20.25	20.12	16.90
				50	0	2	20.12	20.21	20.12	16.80

8.5. LTE Rel. 10 Carrier Aggregation

Carrier Aggregation is implemented for downlink only; therefore uplink maximum output power (single carrier) was measured.

Refer to standalone output power.

8.6. Wi-Fi (2.4 GHz Band)

Required Test Channels per KDB 248227 D01

Mode	Donal	CU-	Channal	"Default Test Channels"		
Mode	Band	GHz	Channel	802.11b	802.11g	
		2.412	1#	√	∇	
802.11b/g	2.4 GHz	2.437	6	√	∇	
		2.462	11 [#]	1	∇	

Notes:

For 2.4 GHz band, there are two use cases:

- P_{Cell ON}: This will be used when both Cellular and Wi-Fi radios are ON.
- P_{Cell OFF}: This will be used when only Wi-Fi radio is ON

8.6.1. P_{Cell_ON} (P_{low})

Measured Results

Band (GHz)	Mode	Data Rate	Ch#	Freq. (MHz)	Avg Pwr (dBm) Variant 3	SAR Test (Yes/No)																			
			1	2412	15.00																				
			6	2437	15.00																				
	802.11b	1 Mbps	11	2462	15.00	Yes																			
			12	2467	15.00																				
			13	2472	15.00																				
			1	2412	15.00																				
			6	2437	15.00																				
2.4	802.11g	6 Mbps	11	2462	15.00	No																			
			12	2467	15.00	ĺ																			
			13	2472	15.00																				
			1	2412	15.00																				
	802.11n (HT20)												l [[6	2437	15.00	
		MCS 0	11	2462	15.00	No																			
			12	2467	15.00																				
			13	2472	15.00																				

Note(s):

- 1. Per KDB 248227 D01, SAR is not required for 802.11g/HT20 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11b channels.
- 2. Additionally, SAR is not required for Channels 12 and 13 because the tune-up limit and the measured output power for these two channels are no greater than those for the default test channels.

Power measurements to determine worst-case data rates

Mode	Ch#	Freq. (MHz)	Data Rate	Avg Pwr (dBm)	SAR test (Yes/No)
		(1711 12)		Variant 3	(163/140)
			1 Mbps	15.00	Yes
802.11b	6	2437	2 Mbps	15.00	No
002.110	O	2457	5.5 Mbps	15.00	No
			11 Mbps	15.00	No

 $[\]sqrt{\ }$ = "default test channels"

 $[\]nabla$ = possible 802.11g channels with maximum average output ½ dB \geq the "default test channels"

⁼ when output power is reduced for channel 1 and /or 11 to meet restricted band requirements the highest output channels closest to each of these channels should be tested.

8.6.2. P_{Cell_OFF} (P_{max})

Measured Results

Band (GHz)	Mode	Data Rate	Ch#	Freq. (MHz)	Avg Pwr (dBm) Variant 3	SAR Test (Yes/No)
			1	2412	18.00	
			6	2437	18.00	
	802.11b	1 Mbps	11	2462	18.00	Yes
			12	2467	16.50	
			13	2472	15.50	
			1	2412	14.00	
			4	2427	18.00	
			6	2437	18.00	
2.4	802.11g	6 Mbps	9	2452	17.90	No
			11	2462	16.00	
			12	2467	12.00	
			13	2472	5.00	
			1	2412	13.90	
	802.11n (HT20)		6	2437	17.90	
		MCS 0	11	2462	16.00	No
			12	2467	12.00	
			13	2472	5.00	

Note(s):

- Per KDB 248227 D01, SAR is not required for 802.11g/HT20 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11b channels.
- 2. Additionally, SAR is not required for Channels 12 and 13 because the tune-up limit and the measured output power for these two channels are no greater than those for the default test channels.

Power measurements to determine worst-case data rates

Mode	Ch#	Freq. (MHz)	Data Rate	Avg Pwr (dBm)	SAR test (Yes/No)
		(1711 12)		Variant 3	(163/140)
	6		1 Mbps	18.00	Yes
802.11b		2437	2 Mbps	18.00	No
002.110	O	2437	5.5 Mbps	18.00	No
			11 Mbps	18.00	No

8.7. Wi-Fi (5 GHz Bands)

Required Test Channels per KDB 248227 D01

8.7.1. Head Power Table

Measured Results

Band (GHz)	Mode	Data Rate	Ch#	Freq. (MHz)	Avg Pwr (dBm) Variant 3	SAR Test (Yes/No)
			36	5180	12.00	
	802.11a	G Mbps	40	5200	11.90	Yes
	002.11a	6 Mbps	44	5220	11.90	res
			48	5240	12.00	
	000.44		36	5180	11.90	
	802.11n (HT20)	MCS0	40	5200	11.90	No
	(11120)		48	5240	11.90	
5.2	802.11n (HT40)	MCS0	38	5190	11.90	No
5.2		IVICSU	46	5230	11.90	No
	222.44		36	5180	12.00	
	802.11ac (HT20)	MCS0	40	5200	11.90	Yes
	(11120)		48	5240	11.90	
	802.11ac	MCCO	38	5190	11.90	NIa
	(HT40)	MCS0	46	5230	11.90	No
	802.11ac (HT80)	MCS0	42	5210	11.90	No
			52	5260	11.00	
	802.11a	G Mbno	56	5280	11.00	Yes
	002.11a	6 Mbps	60	5300	11.00	res
			64	5320	11.00	
	000.44		52	5260	11.00	
	802.11n (HT20)	MCS0	60	5300	11.00	No
	(11120)		64	5320	11.00	
5.3	802.11n	MCS0	54	5270	11.00	No
3.3	(HT40)	IVICSU	62	5310	11.00	No
	000.44		52	5260	11.00	
	802.11ac (HT20)	MCS0	60	5300	11.00	Yes
	(11120)		64	5320	11.00	
	802.11ac	MCCO	54	5270	11.00	No
	(HT40)	MCS0	62	5310	11.00	No
	802.11ac (HT80)	MCS0	58	5290	11.00	No

Note(s)

2. SAR evaluation for 802.11ac is required based on the highest 802.11a configuration per April 2013 TCB Workshop.

^{1.} For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is < 1/4 dB higher than those measured at the lowest data rate.

Wi-Fi (5 GHz Bands) Measured Results (continued)

		continued)				
			Fred		SAR Test	
Mode	Mode	Ch#			(Yes/No)	
		112	5560	9.00		
		116	5580	9.00	V	
802.11a	6 Mbps	120	5600	9.00	Yes	
		124	5620	9.00		
		128	5640	9.00		
		132	5660	9.00		
		136	5680	8.90		
		140	5700	9.00		
000.44		100	5500	9.00		
	MCS0	116	5580	9.00	No	
(11120)		140	5700	9.00		
		102	5510	8.90		
	MCS0	110	5550	9.00	No	
(11140)		134	5670	9.00		
802.11ac (HT20)	MCS0	100	5500	9.00		
		116	5580	9.00	Yes	
		144	5720	8.90		
222.44	MCS0	102	5510	8.90		
		110	5550	8.90	No	
(1140)		142	5710	8.90		
802.11ac	11000	106	5530	8.90		
(HT80)	MCSU	138	5690	8.90	No	
		149	5745	11.50		
		153	5765	11.50		
802.11a	6 Mbps	157	5785	11.50	Yes	
		161	5805	11.50		
		165				
		149	5745			
	MCS0	157	5785		No	
(H120)						
802.11n						
(HT40)	MCS0	159	5795	11.50	No	
802.11ac	MCS0	157	5785	11.50	Yes	
(H120)				11.50		
802.11ac						
802.11ac (HT40)	MCS0				No	
802.11ac	MCS0	155	5775	11.40	No	
	802.11n (HT20) 802.11n (HT40) 802.11ac (HT20) 802.11ac (HT40) 802.11ac (HT80) 802.11a (HT80) 802.11a (HT20) 802.11a (HT20) 802.11a (HT20) 802.11ac (HT40)	802.11a 6 Mbps 802.11n (HT20) MCS0 802.11ac (HT40) MCS0 802.11ac (HT40) MCS0 802.11ac (HT80) MCS0 802.11ac MCS0 802.11ac MCS0 802.11ac MCS0 802.11a MCS0 802.11a MCS0 802.11a MCS0 802.11a MCS0 802.11a MCS0 802.11a MCS0 802.11ac MCS0 802.11ac MCS0 802.11ac MCS0	100	802.11a 6 Mbps 100 5500 802.11a 6 Mbps 120 5600 116 5580 116 5580 116 5580 116 5580 1172 5600 118 5640 119 5600 119 5600 119 5600 110 5500 110 5500 110 5500 110 5500 110 5500 110 5500 110 5500 110 5500 110 5500 110 5550 110 5550 110 5550 1110 550	Mode	

Note(s)

- 1. For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is < 1/4 dB higher than those measured at the lowest data rate.
- 2. SAR evaluation for 802.11ac is required based on the highest 802.11a configuration per April 2013 TCB Workshop.

Power measurements to determine worst-case data rates

Power meas		determine w	orst-case dat	ta rates	Avg Pwr	SAR test
Band	Mode	Ch#	(MHz)	Data Rate	(dBm)	(Yes/No)
					Variant 3	
				6 Mbps	12.00	Yes
				9 Mbps	12.00	No
				12 Mbps	12.00	No
5.2 GHz	802.11a	36	5180	18 Mbps	12.00	No
0.2 0112	002.114	00	0100	24 Mbps	12.00	No
				36 Mbps	12.00	No
				48 Mbps	11.90	No
				54 Mbps	12.00	No
				6 Mbps	11.00	Yes
				9 Mbps	10.90	No
				12 Mbps	10.90	No
5.3 GHz	802.11a	F.C.	5000	18 Mbps	11.00	No
5.3 GHZ	602.11a	56	5280	24 Mbps	11.00	No
				36 Mbps	11.00	No
				48 Mbps	11.00	No
				54 Mbps	11.00	No
				6 Mbps	9.00	Yes
				9 Mbps	9.00	No
				12 Mbps	9.00	No
5.5.011-	000.44-	440	5500	18 Mbps	9.00	No
5.5 GHz	802.11a	116	5580	24 Mbps	9.00	No
				36 Mbps	8.90	No
				48 Mbps	8.90	No
				54 Mbps	8.90	No
				6 Mbps	11.50	Yes
				9 Mbps	11.50	No
				12 Mbps	11.50	No
5.0.011	000.44	4.40	F7.5	18 Mbps	11.40	No
5.8 GHz	802.11a	149	5745	24 Mbps	11.40	No
				36 Mbps	11.40	No
				48 Mbps	11.50	No
				54 Mbps	11.50	No

8.7.2. Body Power Table

Measured Results

wieasurea R	<u>Journal</u>				Avg Pwr		
Band	Marila	Data Dat	Ob. #	Freq.	(dBm)	SAR Test	
(GHz)	Mode	Data Rate	Ch#	(MHz)	, ,	(Yes/No)	
					Variant 3		
			36	5180	17.50		
	802.11a	6 Mbps	40	5200	18.00	Yes	
	332.7.13	·	44	5220	18.00		
			48	5240	18.00		
	802.11n		36	5180	17.60		
	(HT20)	MCS0	40	5200	17.98	No	
	(= 5)		48	5240	17.85		
	802.11n	MCS0	38	5190	14.96	No	
5.2	(HT40)	MCSU	46	5230	15.95	NO	
			36	5180	17.40		
	802.11ac	MCCO	48	5240	17.90	V	
	(HT20)	MCS0	44	5220	17.90	Yes	
			48	5240	17.90		
	802.11ac	14000	38	5190	14.90		
	(HT40)	MCS0	46	5230	15.90	No	
	802.11ac (HT80)	MCS0	42	5210	15.03	No	
			52	5260	16.90	V	
	000.44-		56	5280	16.90		
	802.11a	6 Mbps	60	5300	16.90	Yes	
			64	5320	16.90		
			52	5260	16.85		
	802.11n	MCS0	60	5300	16.83	No	
	(HT20)		64	5320	16.84		
	802.11n		54	5270	16.87		
5.3	(HT40)	MCS0	62	5310	15.45	No	
			52	5260	16.80		
	802.11ac		60	5300	16.80		
	(HT20)	MCS0	60	5300	16.80	Yes	
			64	5320	16.80		
	802.11ac		54	5270	16.90		
	(HT40)	MCS0	62	5310	15.40	No	
	802.11ac (HT80)	MCS0	58	5290	14.53	No	

Note(s):

^{1.} For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is < 1/4 dB higher than those measured at the lowest data rate.

^{2.} SAR evaluation for 802.11ac is required based on the highest 802.11a configuration per April 2013 TCB Workshop.

Wi-Fi (5 GHz Bands) Measured Results (continued)

WI-FI (5 GHZ	Bands) Measu	rea Kesuits (<u>continuea)</u>	1			
Band				Freq.	Avg Pwr	SAR Test	
(GHz)	Mode	Mode	Ch#	(MHz)	(dBm)	(Yes/No)	
				, ,	Variant 3	,	
			100	5500	14.50		
			104	5520	14.50		
			108	5540	14.50		
			112	5560	14.50		
			116	5580	14.50		
	802.11a	6 Mbps	120	5600	14.50	Yes	
			124	5620	14.50		
			128	5640	14.50		
			132	5660	14.40		
			136	5680	14.40		
			140	5700	14.50		
	000.44=		100	5500	14.49		
5.5	802.11n (HT20)	MCS0	116	5580	14.49	No	
	(H120)		140	5700	14.48		
	000.44		102	5510	13.40		
	802.11n (HT40)	MCS0	110	5550	14.50	No	
	(11140)		134	5670	14.40		
	222.44		100	5500	14.50		
	802.11ac (HT20)	MCS0	116	5580	14.40	Yes	
			144	5720	14.48		
	202.4		102	5510	13.40		
	802.11ac	MCS0	110	5550	14.46	No	
	(HT40)		142	5710	13.40		
	802.11ac	14000	106	5530	12.50	NI-	
	(HT80)	MCS0	138	5690	12.40	No	
			149	5745	14.90		
			153	5765	15.90		
	802.11a	6 Mbps	157	5785	17.00	Yes	
			161	5805	17.00		
			165	5825	17.00		
			149	5745	14.97		
	802.11n	MCS0	157	5785	16.95	No	
	(HT20)		161	5805	16.96		
5.8	802.11n		151	5755	12.90		
	(HT40)	MCS0	159	5795	14.90	No	
			149	5745	14.90		
	802.11ac	MCS0	157	5785	16.90	Yes	
	(HT20)		165	5825	16.90		
	802.11ac		151	5755	13.00	N-	
	(HT40)	MCS0	159	5795	14.90	No	
	802.11ac (HT80)	MCS0	155	5775	13.90	No	

Note(s)

^{1.} For each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of these configurations is < 1/4 dB higher than those measured at the lowest data rate.

^{2.} SAR evaluation for 802.11ac is required based on the highest 802.11a configuration per April 2013 TCB Workshop.

Power measurements to determine worst-case data rates

Power measurements to determine worst-case data rates											
Band	Mode	Ch#	Freq. (MHz)	Data Rate	Avg Pwr (dBm)	SAR test (Yes/No)					
			(1711 12)		Variant 3	(103/140)					
				6 Mbps	18.00	Yes					
				9 Mbps	18.00	No					
				12 Mbps	18.00	No					
5.2 GHz	802.11a	36	5180	18 Mbps	17.90	No					
3.2 GHZ	002.11a	30	3100	24 Mbps	17.90	No					
				36 Mbps	17.90	No					
				48 Mbps	18.00	No					
				54 Mbps	18.00	No					
				6 Mbps	16.90	Yes					
				9 Mbps	16.80	No					
				12 Mbps	16.80	No					
E 2 CU-	802.11a	56	5280	18 Mbps	16.80	No					
5.3 GHz			3280	24 Mbps	16.80	No					
				36 Mbps	16.80	No					
				48 Mbps	16.80	No					
				54 Mbps	16.80	No					
				6 Mbps	14.50	Yes					
				9 Mbps	14.50	No					
				12 Mbps	14.50	No					
5.5 GHz	802.11a	116	5580	18 Mbps	14.40	No					
5.5 GHZ	602.11a	110	5560	24 Mbps	14.40	No					
				36 Mbps	14.40	No					
				48 Mbps	14.40	No					
				54 Mbps	14.40	No					
				6 Mbps	17.00	Yes					
				9 Mbps	16.90	No					
				12 Mbps	17.00	No					
5.8 GHz	802.11a	149	5745	18 Mbps	17.00	No					
3.0 GHZ	002.11a	149	3743	24 Mbps	17.00	No					
				36 Mbps	17.00	No					
				48 Mbps	16.90	No					
				54 Mbps	16.90	No					

8.8. Bluetooth

Band	Mode	Ch#	Freq.	Avg Pwr (dBm)
(GHz)	Mode	OII#	(MHz)	Variant 3
	V0.0 . EDD	0	2402	10.43
	V3.0 + EDR, GFSK	39	2441	12.00
	OI OIC	78	2480	10.46
	V3.0 + EDR, 8-DPSK	0	2402	9.03
2.4		39	2441	10.70
	O DI OK	78	2480	8.86
	V4.0.LE	0	2402	10.12
	V4.0 LE, GFSK	19	2440	11.95
	OI SIX	39	2480	10.30

9. 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°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.

9.1. Tissue Dielectric Parameters

FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz

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

IEEE Std 1528-2013

Refer to Table 3

9.2. Dielectric Property Measurements Results

SAR Lab A

Date	Freq. (MHz)		Liq	uid Parameters	Measured	Target	Delta (%)	Limit ±(%)
	Body 750	e'	55.38	Relative Permittivity (ε_r):	55.38	55.55	-0.30	5
	Бойу 750	e"	23.24	Conductivity (σ):	0.97	0.96	0.63	5
6/19/2014	Body 700	e'	55.99	Relative Permittivity (ε_r):	55.99	55.74	0.45	5
6/19/2014	Бойу 700	e"	23.62	Conductivity (σ):	0.92	0.96	-4.16	5
	Dody 700	e'	54.98	Relative Permittivity (ε_r):	54.98	55.39	-0.74	5
	Body 790	e"	22.95	Conductivity (σ):	1.01	0.97	4.34	5
	Llood 750	e'	40.55	Relative Permittivity (ε_r):	40.55	41.96	-3.36	5
	Head 750	e"	21.63	Conductivity (σ):	0.90	0.89	1.00	5
0/40/0044	H 700	e'	41.30	Relative Permittivity (ε_r):	41.30	42.22	-2.17	5
6/19/2014	Head 700	e"	22.01	Conductivity (σ):	0.86	0.89	-3.66	5
		e'	39.99	Relative Permittivity (c _r):	39.99	41.76	-4.23	5
	Head 790	e"	21.39	Conductivity (σ):	0.94	0.90	4.85	5
		e'	40.60	Relative Permittivity (ε_r):	40.60	41.96	-3.24	5
	Head 750	e"	21.54	Conductivity (σ):	0.90	0.89	0.58	5
		e'	41.22	Relative Permittivity (ε_r):	41.22	42.22	-2.36	5
6/23/2014	Head 700	e"	21.84	Conductivity (σ):	0.85	0.89	-4.40	5
		e'	39.98	Relative Permittivity (ε_r):	39.98	41.76	-4.25	5
	Head 790	e"	21.16	Conductivity (σ):	0.93	0.90	3.72	5
		e'	53.99	Relative Permittivity (ε_r):	53.99	55.55	-2.80	5
	Body 750	e"	23.21	Conductivity (σ):	0.97	0.96	0.50	5
		e'	54.48	Relative Permittivity (ε_r):	54.48	55.74	-2.26	5
6/23/2014	Body 700	e"	23.58	Conductivity (σ):	0.92	0.96	-4.32	5
		e'	53.43	Relative Permittivity (ε_r):	53.43	55.39	-3.54	5
	Body 790	e"	22.80	Conductivity (σ):	1.00	0.97	3.66	5
		e'	38.88	Relative Permittivity (ε_r):	38.88	39.01	-0.34	5
	Head 2600	e"	13.42		1.94	1.96	-0.34	5
		+		Conductivity (σ): Relative Permittivity (ε_r):				
6/24/2014	Head 2500	e' e"	39.25		39.25	39.14	0.29	5
		+	13.17	Conductivity (σ):	1.83	1.85	-1.26	5
	Head 2700	e'	38.50	Relative Permittivity (c _r):	38.50	38.88	-0.99	5
		e"	13.66	Conductivity (σ):	2.05	2.07	-0.94	5
	Body 2600	e'	52.13	Relative Permittivity (e _r):	52.13	52.51	-0.73	5
		e"	14.52	Conductivity (σ):	2.10	2.16	-2.85	5
6/24/2014	Body 2500	e'	52.40	Relative Permittivity (c _r):	52.40	52.64	-0.45	5
		e"	14.29	Conductivity (σ):	1.99	2.02	-1.68	5
	Body 2700	e'	51.83	Relative Permittivity (c _r):	51.83	52.38	-1.06	5
		e"	14.79	Conductivity (σ):	2.22	2.30	-3.52	5
	Head 2600	e'	39.2900	Relative Permittivity (ε_r):	39.29	39.01	0.72	5
		e"	14.0500	Conductivity (σ):	2.03	1.96	3.52	5
6/30/2014	Head 2500	e'	39.6600	Relative Permittivity (e _r):	39.66	39.14	1.34	5
		e"	13.8200	Conductivity (σ):	1.92	1.85	3.62	5
Head 27	Head 2700	e'	38.9400	Relative Permittivity (ε_r):	38.94	38.88	0.14	5
		e"	14.2600	Conductivity (σ):	2.14	2.07	3.41	5
	Body 2600	e'	50.4300	Relative Permittivity (ε_r):	50.43	52.51	-3.96	5
	200, 2000	e"	15.2000	Conductivity (σ):	2.20	2.16	1.69	5
6/30/2014	Body 2500	e'	50.7700	Relative Permittivity (ε_r):	50.77	52.64	-3.55	5
3/30/2014	Dody 2000	e"	14.9800	Conductivity (σ):	2.08	2.02	3.07	5
	Body 2700	e'	50.1400	Relative Permittivity (ε_r):	50.14	52.38	-4.29	5
	Dody 2100	e"	15.4000	Conductivity (σ):	2.31	2.30	0.46	5

SAR Lab A (continued)

Date	Freq. (MHz)		Liq	uid Parameters	Measured	Target	Delta (%)	Limit ±(%)
	Head 2600	e'	39.4500	Relative Permittivity (ε_r):	39.45	39.01	1.13	5
	Tieau 2000	e"	13.8000	Conductivity (σ):	2.00	1.96	1.68	5
7/7/2014	Head 2500	e'	39.8200	Relative Permittivity (ε_r):	39.82	39.14	1.75	5
7/1/2014	Fleau 2500	e"	13.6100	Conductivity (σ):	1.89	1.85	2.04	5
	Head 2700	e'	39.2000	Relative Permittivity (ε_r):	39.20	38.88	0.81	5
	rieau 2700	e"	14.0200	Conductivity (σ):	2.10	2.07	1.67	5
	Body 2600	e'	50.5700	Relative Permittivity (ε_r):	50.57	52.51	-3.70	5
	B00y 2000	e"	15.0400	Conductivity (σ):	2.17	2.16	0.62	5
7/7/2014	Body 2500	e'	50.9000	Relative Permittivity (ε_r):	50.90	52.64	-3.30	5
7/7/2014 Body 2500	e"	14.8800	Conductivity (σ):	2.07	2.02	2.38	5	
	Body 2700	e'	50.3300	Relative Permittivity (ε_r):	50.33	52.38	-3.92	5
	Body 2700	e"	15.2300	Conductivity (σ):	2.29	2.30	-0.65	5

SAR Lab B

Date	Freq. (MHz)		Liq	uid Parameters	Measured	Target	Delta (%)	Limit ±(%)
		e'	39.97	Relative Permittivity (ε_r):	39.97	39.20	1.96	5
	Head 2450	e"	13.12	Conductivity (σ):	1.79	1.80	-0.71	5
0/40/0044	111.0440	e'	40.08	Relative Permittivity (ε_r):	40.08	39.28	2.04	5
6/19/2014	Head 2410	e"	13.03	Conductivity (σ):	1.75	1.76	-0.82	5
	111.0475	e'	39.89	Relative Permittivity (ε_r):	39.89	39.17	1.84	5
	Head 2475	e"	13.19	Conductivity (σ):	1.82	1.83	-0.65	5
	D 1 0450	e'	51.40	Relative Permittivity (ε_r):	51.40	52.70	-2.47	5
	Body 2450	e"	14.50	Conductivity (σ):	1.98	1.95	1.30	5
0/40/0044	D 1 0440	e'	51.48	Relative Permittivity (ε_r):	51.48	52.76	-2.42	5
6/19/2014	Body 2410	e"	14.42	Conductivity (σ):	1.93	1.91	1.30	5
	D 1 0475	e'	51.34	Relative Permittivity (ε_r):	51.34	52.67	-2.52	5
	Body 2475	e' 39 e" 13 e' 40 e" 13 e' 40 e" 13 e' 39 e" 13 e' 51 e" 14 e' 51 e" 14 e' 38 e" 13 e' 51 e" 14 e' 39 e" 13 e' 39 e" 13 e' 39 e" 13 e' 39 e" 14 e' 51	14.57	Conductivity (σ):	2.01	1.99	1.01	5
		e'	38.33	Relative Permittivity (ε _r):	38.33	39.20	-2.22	5
	Head 2450	e"	13.51	Conductivity (σ):	1.84	1.80	2.25	5
	/2014 Head 2410	e'	38.46	Relative Permittivity (ε _r):	38.46	39.28	-2.09	5
6/23/2014		-	13.38	Conductivity (σ):	1.79	1.76	1.85	5
		e'	38.82	Relative Permittivity (ε _r):	38.82	39.17	-0.89	5
	Head 2475	e"	13.56	Conductivity (σ):	1.87	1.83	2.14	5
		e'	51.32	Relative Permittivity (ε _r):	51.32	52.70	-2.62	5
	Body 2450	\vdash	14.64	Conductivity (σ):	1.99	1.95	2.28	5
		e'	51.41	Relative Permittivity (ε _r):	51.41	52.76	-2.56	5
6/23/2014	Body 2410		14.55	Conductivity (σ):	1.95	1.91	2.22	5
		++	51.35	Relative Permittivity (ε_r):	51.35	52.67	-2.50	5
	Body 2475	\vdash	14.73	Conductivity (σ):	2.03	1.99	2.11	5
		+	39.83	Relative Permittivity (ε _r):	39.83	39.20	1.61	5
	Head 2450		13.12	Conductivity (σ):	1.79	1.80	-0.71	5
		++	39.93	Relative Permittivity (ε_r):	39.93	39.28	1.66	5
6/26/2014	Head 2410		13.01	Conductivity (σ):	1.74	1.76	-0.97	5
		e'	39.77	Relative Permittivity (ε_r):	39.77	39.17	1.54	5
	Head 2475	\vdash	13.17	Conductivity (σ):	1.81	1.83	-0.80	5
		e'	51.05	Relative Permittivity (c _r):	51.05	52.70	-3.13	5
	Body 2450	_	14.94	Conductivity (σ):	2.04	1.95	4.37	5
		+ -	51.07	Relative Permittivity (ε_r):	51.07	52.76	-3.20	5
6/26/2014	Body 2410		14.72	Conductivity (σ):	1.97	1.91	3.41	5
		+ +	51.06	Relative Permittivity (ε _r):	51.06	52.67	-3.05	5
	Body 2475		14.93	Conductivity (σ):	2.05	1.99	3.50	5
		+ +	39.2700	Relative Permittivity (ε_r):	39.27	39.20	0.18	5
	Head 2450	_	13.0200	Conductivity (σ):	1.77	1.80	-1.46	5
		+ -	39.4100	Relative Permittivity (ε_r):	39.41	39.28	0.33	5
6/30/2014	Head 2410		12.9100	Conductivity (σ):	1.73	1.76	-1.73	5
		+ -	39.2000	Relative Permittivity (ε_r):	39.20	39.17	0.08	5
	Head 2475 -		13.0800	Conductivity (σ):	1.80	1.83	-1.48	5
		+ -	51.7500	Relative Permittivity (ε_r):	51.75	52.70	-1.80	5
	Body 2450	_	14.3500	Conductivity (σ_r) :	1.95	1.95	0.25	5
		+ -	51.8400	Relative Permittivity (ε_r):	51.84	52.76	-1.74	5
ı	Body 2410	-						
6/30/2014	Body 2475 Head 2450 Head 2410 Head 2475 Body 2450 Body 2475 Head 2450 Head 2450 Head 2475 Head 2450 Head 2475 Body 2475 Head 2450 Head 2475 Body 2450	۵"	1/1 2/100	('Onductivity'/a')	1 01	1 01	0.04	h
6/30/2014	Body 2410	e" e'	14.2400 51.6700	Conductivity (σ): Relative Permittivity (ε_r):	1.91 51.67	1.91 52.67	0.04 -1.90	5 5

SAR Lab C

Date	Freq. (MHz)		Liq	uid Parameters	Measured	Target	Delta (%)	Limit ±(%)
	Head 1900	e'	38.7000	Relative Permittivity (ε_r):	38.70	40.00	-3.25	5
	Tieau 1900	e"	13.1200	Conductivity (σ):	1.39	1.40	-0.99	5
6/30/2014	Head 1850	e'	38.8800	Relative Permittivity (ε_r):	38.88	40.00	-2.80	5
0/30/2014	Head 1650	e"	13.0800	Conductivity (σ):	1.35	1.40	-3.89	5
	Head 1910	e'	38.6700	Relative Permittivity (ε_r):	38.67	40.00	-3.33	5
	Tieau 1910	e"	13.1500	Conductivity (σ):	1.40	1.40	-0.25	5
	Body 1900	e'	51.8800	Relative Permittivity (ε_r):	51.88	53.30	-2.66	5
	Body 1900	e"	14.8800	Conductivity (σ):	1.57	1.52	3.42	5
6/30/2014	Body 1850	e'	52.0400	Relative Permittivity (ε_r):	52.04	53.30	-2.36	5
Body 1910	e"	14.8800	Conductivity (σ):	1.53	1.52	0.70	5	
	e'	51.8600	Relative Permittivity (ε_r):	51.86	53.30	-2.70	5	
	Body 1910	e"	14.9000	Conductivity (σ):	1.58	1.52	4.11	5

SAR Lab D

Date	Freq. (MHz)		Liq	uid Parameters	Measured	Target	Delta (%)	Limit ±(%)
	Head 835	e'	43.01	Relative Permittivity (ε_r):	43.01	41.50	3.64	5
	Head 000	e"	20.02	Conductivity (σ):	0.93	0.90	3.28	5
6/19/2014	Head 820	e'	43.20	Relative Permittivity (ε_r):	43.20	41.60	3.84	5
0/13/2014	Tieau 020	e"	20.09	Conductivity (σ):	0.92	0.90	1.95	5
	Head 850 Body 835 Body 820 Body 850	e'	42.81	Relative Permittivity (ε_r):	42.81	41.50	3.16	5
	Head 000	e"	19.97	Conductivity (σ):	0.94	0.92	3.15	5
	Pody 935	e'	53.49	Relative Permittivity (ε_r):	53.49	55.20	-3.10	5
	Body 633	e"	21.37	Conductivity (σ):	0.99	0.97	2.29	5
6/10/2014	Pody 920	e'	53.69	Relative Permittivity (ε_r):	53.69	55.28	-2.87	5
0/19/2014	600y 620	e"	21.46	Conductivity (σ):	0.98	0.97	1.03	5
	Dady 050	e'	53.35	Relative Permittivity (ε_r):	53.35	55.16	-3.28	5
	Body 850	e"	21.31	Conductivity (σ):	1.01	0.99	2.03	5
	U 005	e'	42.40	Relative Permittivity (ε_r):	42.40	41.50	2.17	5
	Head 835	e"	19.84	Conductivity (σ):	0.92	0.90	2.35	5
0/00/0044	111.000	e'	42.55	Relative Permittivity (ε_r):	42.55	41.60	2.28	5
6/23/2014	Head 820	e"	19.87	Conductivity (σ):	0.91	0.90	0.84	5
		e'	42.26	Relative Permittivity (ε_r):	42.26	41.50	1.83	5
	Head 850	e"	19.83	Conductivity (σ):	0.94	0.92	2.43	5
		e'	55.51	Relative Permittivity (ε_r):	55.51	55.20	0.56	5
	Body 835	e"	21.56	Conductivity (σ):	1.00	0.97	3.20	5
		e'	55.64	Relative Permittivity (ε_r):	55.64	55.28	0.66	5
6/23/2014	Body 820	e"	21.62	Conductivity (σ):	0.99	0.97	1.79	5
		e'	55.42	Relative Permittivity (ε_r):	55.42	55.16	0.48	5
	Body 850	e"	21.53	Conductivity (σ):	1.02	0.99	3.08	5
		e'	41.75	Relative Permittivity (ε_r):	41.75	41.50	0.60	5
	Head 835	e"	19.93	Conductivity (σ):	0.93	0.90	2.81	5
		e'	41.87	Relative Permittivity (ε_r):	41.87	41.60	0.64	5
6/26/2014	Head 820	e"	19.97	Conductivity (σ):	0.91	0.90	1.34	5
		e'	41.57	Relative Permittivity (ε_r):	41.57	41.50	0.17	5
	Head 850	e"	19.95	Conductivity (σ):	0.94	0.92	3.05	5
		e'	53.61	Relative Permittivity (ε_r):	53.61	55.20	-2.88	5
	Body 835	e"	21.63	Conductivity (σ):	1.00	0.97	3.53	5
		e'	53.67	Relative Permittivity (ε_r):	53.67	55.28	-2.91	5
6/26/2014	Body 820	e"	21.68	Conductivity (σ):	0.99	0.97	2.07	5
		e'	53.46	Relative Permittivity (c _r):	53.46	55.16	-3.08	5
	Body 850	e"	21.66	Conductivity (σ):	1.02	0.99	3.70	5
		e'	41.2900	Relative Permittivity (c _r):	41.29	41.50	-0.51	5
	Head 835	e"	19.0300	Conductivity (σ):	0.88	0.90	-1.83	5
		e'		Relative Permittivity (c _r):	41.47		-0.32	5
6/30/2014	Head 820	e"	41.4700 19.0600			41.60		
	<u> </u>	e'		Conductivity (σ): Relative Permittivity (ε_r):	0.87 41.12	0.90 41.50	-3.28 -0.92	5 5
	Head 850	-	41.1200					
	ļ	e"	19.0100	Conductivity (σ):	0.90	0.92	-1.81	5
	Body 835	e'	55.0600	Relative Permittivity (c _r):	55.06	55.20	-0.25	5
		e"	21.6100	Conductivity (σ):	1.00	0.97	3.44	5
6/30/2014	Body 820	e'	55.1800	Relative Permittivity (c _r):	55.18	55.28	-0.18	5
0/30/2014 B0		e"	21.6500	Conductivity (σ):	0.99	0.97	1.93	5
	Body 850	e'	54.9400	Relative Permittivity (c _r):	54.94	55.16	-0.39	5
		e"	21.5400	Conductivity (σ):	1.02	0.99	3.13	5
	Body 750	e'	53.3400	Relative Permittivity (c _r):	53.34	55.55	-3.97	5
		e"	23.3100	Conductivity (σ):	0.97	0.96	0.93	5
7/8/2014	Body 700	e'	53.9300	Relative Permittivity (ε_r):	53.93	55.74	-3.24	5
		e"	23.7200	Conductivity (σ):	0.92	0.96	-3.75	5
	Body 790	e'	52.9400	Relative Permittivity (ε_r):	52.94	55.39	-4.43	5
	200, 700	e"	22.9400	Conductivity (σ):	1.01	0.97	4.30	5

SAR Lab D (continued)

Date	Freq. (MHz)		Liq	uid Parameters	Measured	Target	Delta (%)	Limit ±(%)
	Head 835	e'	40.7800	Relative Permittivity (ε_r):	40.78	41.50	-1.73	5
	Flead 655	e"	19.2100	Conductivity (σ):	0.89	0.90	-0.90	5
7/17/2014	Head 820	e'	40.9600	Relative Permittivity (ε_r):	40.96	41.60	-1.54	5
7/17/2014	Fleau 620	e"	19.2500	Conductivity (σ):	0.88	0.90	-2.31	5
	Head 850	e'	40.6000	Relative Permittivity (ε_r):	40.60	41.50	-2.17	5
	Tieau 030	e"	19.1300	Conductivity (σ):	0.90	0.92	-1.19	5
	Body 835	e'	55.9800	Relative Permittivity (ε_r):	55.98	55.20	1.41	5
	Body 655	e"	21.6900	Conductivity (σ):	1.01	0.97	3.82	5
7/17/2014	Body 820	e'	56.1100	Relative Permittivity (ε_r):	56.11	55.28	1.51	5
	e"	21.7900	Conductivity (σ):	0.99	0.97	2.59	5	
	Body 850	e'	55.8400	Relative Permittivity (ε_r):	55.84	55.16	1.24	5
	Body 630	e"	21.6200	Conductivity (σ):	1.02	0.99	3.51	5

SAR Lab E

Date	Freq. (MHz)		Liq	uid Parameters	Measured	Target	Delta (%)	Limit ±(%)
		e'	36.2300	Relative Permittivity (ε_r):	36.23	36.01	0.60	5
	Head 5180	e"	15.4200	Conductivity (σ):	4.44	4.63	-4.09	5
		e'	36.2300	Relative Permittivity (ε_r) :	36.23	35.99	0.67	5
	Head 5200	e"	15.4800	Conductivity (σ):	4.48	4.65	-3.77	5
		e'	35.6800	Relative Permittivity (ε_r):	35.68	35.53	0.41	5
6/19/2014	Head 5600	e"	15.5500	Conductivity (σ):	4.84	5.06	-4.31	5
		e'	35.3700	Relative Permittivity (ε_r):	35.37	35.30	0.20	5
	Head 5800	e"	15.6500	Conductivity (σ):	5.05	5.27	-4.23	5
		e'	35.3700	Relative Permittivity (ε_r):	35.37	35.30	0.20	5
	Head 5825	e"	15.7100	Conductivity (σ):	5.09	5.27	-3.45	5
		e'	48.1700	Relative Permittivity (ε_r):	48.17	49.05	-1.79	5
	Body 5180	e"	17.4400	Conductivity (σ):	5.02	5.27	-4.71	5
		e'	48.1900	Relative Permittivity (ε_r):	48.19	49.02	-1.69	5
	Body 5200	e"	17.5300	Conductivity (σ):	5.07	5.29	-4.27	5
		+		Relative Permittivity (c _r):				5
6/19/2014	Body 5600	e'	47.6900		47.69	48.48	-1.62	
		e"	17.7100	Conductivity (σ):	5.51	5.76	-4.28	5
	Body 5800	e'	47.3600	Relative Permittivity (¢ _r):	47.36	48.20	-1.74	5
		e"	17.8400	Conductivity (σ):	5.75	6.00	-4.11	5
	Body 5825	e'	47.4000	Relative Permittivity (c _r):	47.40	48.20	-1.66	5
	,	e"	17.9200	Conductivity (σ):	5.80	6.00	-3.27	5
	Head 5180	e'	36.1100	Relative Permittivity (ε_r):	36.11	36.01	0.27	5
		e"	15.6900	Conductivity (σ):	4.52	4.63	-2.41	5
- 6/23/2014	Head 5200	e'	36.1700	Relative Permittivity (ε _r):	36.17	35.99	0.50	5
		e"	15.8300	Conductivity (σ):	4.58	4.65	-1.59	5
	Head 5600	e'	35.7200	Relative Permittivity (ε_r):	35.72	35.53	0.52	5
0/20/2014	Ticaa oooo	e"	15.9400	Conductivity (σ):	4.96	5.06	-1.91	5
	Head 5800	e'	35.4400	Relative Permittivity (ε_r):	35.44	35.30	0.40	5
	Ticau 3000	e"	15.9800	Conductivity (σ):	5.15	5.27	-2.21	5
	Head 5825	e'	35.4600	Relative Permittivity (ε_r):	35.46	35.30	0.45	5
	Fleau 3023	e"	16.1000	Conductivity (σ):	5.21	5.27	-1.05	5
	Dody 5100	e'	47.0200	Relative Permittivity (c _r):	47.02	49.05	-4.13	5
	Body 5180	e"	18.1300	Conductivity (σ):	5.22	5.27	-0.94	5
	B 1 5000	e'	47.1200	Relative Permittivity (ε_r):	47.12	49.02	-3.88	5
	Body 5200	e"	18.3200	Conductivity (σ):	5.30	5.29	0.04	5
		e'	46.6700	Relative Permittivity (ε_r):	46.67	48.48	-3.73	5
6/23/2014	Body 5600	e"	18.4600	Conductivity (σ):	5.75	5.76	-0.23	5
		e'	46.3800	Relative Permittivity (ε_r):	46.38	48.20	-3.78	5
	Body 5800	e"	18.6000	Conductivity (σ):	6.00	6.00	-0.03	5
		e'	46.4500	Relative Permittivity (ε_r):	46.45	48.20	-3.63	5
	Body 5825	e"	18.7700	Conductivity (σ):	6.08	6.00	1.32	5
		e'	37.0200	Relative Permittivity (ε_r):	37.02	36.01	2.80	5
	Head 5180	e"	16.1300	Conductivity (σ):	4.65	4.63	0.33	5
		e'	37.0200	Relative Permittivity (c _r):	37.02	35.99	2.86	5
	Head 5200	e"	16.1300	Conductivity (σ _r):	4.66	4.65	0.27	5
		+ -		Relative Permittivity (e _r):				5
6/26/2014	Head 5600	e' e"	36.3900	, · · · /	36.39	35.53	2.41	
		+	16.3400	Conductivity (σ):	5.09	5.06	0.55	5
	Head 5800	e'	36.0700	Relative Permittivity (ε_r):	36.07	35.30	2.18	5
		е"	16.4900	Conductivity (σ):	5.32	5.27	0.91	5
	l Head 5825 ⊢	e'	36.0600	Relative Permittivity (ε_r):	36.06	35.30	2.15	5
	neau 5625	e"	16.5000	Conductivity (σ):	5.34	5.27	1.41	5

SAR Lab E (continued)

Date	Freq. (MHz)		Liq	uid Parameters	Measured	Target	Delta (%)	Limit ±(%)
	Body 5400	e'	47.4400	Relative Permittivity (ε_r):	47.44	49.05	-3.28	5
	Body 5180	e"	18.0800	Conductivity (σ):	5.21	5.27	-1.21	5
	D. I. 5000	e'	47.5800	Relative Permittivity (ε_r):	47.58	49.02	-2.94	5
	Body 5200	e"	18.2500	Conductivity (σ):	5.28	5.29	-0.34	5
		e'	47.1500	Relative Permittivity (ε_r):	47.15	48.48	-2.74	5
6/26/2014	Body 5600	e"	18.3800	Conductivity (σ):	5.72	5.76	-0.66	5
		e'	46.8200	Relative Permittivity (ε_r):	46.82	48.20	-2.86	5
	Body 5800	e"	18.5200	Conductivity (σ):	5.97	6.00	-0.46	5
		e'	46.9700	Relative Permittivity (ε_r):	46.97	48.20	-2.55	5
	Body 5825	e"	18.7200	Conductivity (σ):	6.06	6.00	1.05	5
		e'	34.6700	Relative Permittivity (ε_r):	34.67	36.01	-3.73	5
	Head 5180	e"	15.7400	Conductivity (σ):	4.53	4.63	-2.10	5
		e'	34.6800	Relative Permittivity (ε_r):	34.68	35.99	-3.64	5
	Head 5200	e"	15.7700	Conductivity (σ):	4.56	4.65	-1.96	5
		e'	34.1700	Relative Permittivity (ε_r):	34.17	35.53	-3.84	5
6/30/2014	Head 5600	e"	15.8600	Conductivity (σ):	4.94	5.06	-2.41	5
	Head 5800	e'	35.0200	Relative Permittivity (ε_r):	35.02	35.30	-0.79	5
		e"	16.1000	Conductivity (σ):	5.19	5.27	-1.48	5
		+	34.9500	Relative Permittivity (ε_r):	34.95	35.30		
	Head 5825	e' e"	16.1700		5.24	5.27	-0.99 -0.62	5 5
		+		Conductivity (σ): Relative Permittivity (ε_r):				
	Body 5180	e'	48.3800		48.38	49.05	-1.36	5
		e"	18.6200	Conductivity (σ):	5.36	5.27	1.74	5
6/30/2014	Body 5200	e'	48.2900	Relative Permittivity (c _r):	48.29	49.02	-1.49	5
		e"	18.6200	Conductivity (σ):	5.38	5.29	1.68	5
	Body 5600	e'	47.6700	Relative Permittivity (ε_r):	47.67	48.48	-1.67	5
	,	e"	19.0100	Conductivity (σ):	5.92	5.76	2.75	5
	Body 5800	e'	47.2600	Relative Permittivity (ε_r):	47.26	48.20	-1.95	5
	,	e"	19.0000	Conductivity (σ):	6.13	6.00	2.12	5
	Body 5825	e'	47.2000	Relative Permittivity (ε_r):	47.20	48.20	-2.07	5
	,	e"	19.1200	Conductivity (σ):	6.19	6.00	3.21	5
	Head 5180	e'	34.8500	Relative Permittivity (ε_r):	34.85	36.01	-3.23	5
		e"	15.6400	Conductivity (σ):	4.50	4.63	-2.72	5
	Head 5200	e'	34.8300	Relative Permittivity (ε_r):	34.83	35.99	-3.22	5
	11044 0200	e"	15.6400	Conductivity (σ):	4.52	4.65	-2.77	5
7/7/2014	Head 5600	e'	34.2300	Relative Permittivity (ε_r):	34.23	35.53	-3.67	5
1/1/2014	Ticad 3000	e"	15.8600	Conductivity (σ):	4.94	5.06	-2.41	5
	Head 5800	e'	33.9100	Relative Permittivity (ε_r):	33.91	35.30	-3.94	5
	Ticad 3000	e"	15.6800	Conductivity (σ):	5.06	5.27	-4.05	5
	Hood E00E	e'	33.8500	Relative Permittivity (ε_r):	33.85	35.30	-4.11	5
	Head 5825	e"	15.8600	Conductivity (σ):	5.14	5.27	-2.53	5
	Body E400	e'	48.6400	Relative Permittivity (ε_r):	48.64	49.05	-0.83	5
	Body 5180	e"	18.1400	Conductivity (σ):	5.22	5.27	-0.88	5
	Dod: 5000	e'	48.6400	Relative Permittivity (ε_r):	48.64	49.02	-0.77	5
	Body 5200	e"	18.2100	Conductivity (σ):	5.27	5.29	-0.56	5
7/7/0011	B. I. 5000	e'	48.0400	Relative Permittivity (ε_r):	48.04	48.48	-0.90	5
7/7/2014	Body 5600	e"	18.6300	Conductivity (σ):	5.80	5.76	0.69	5
		e'	47.6200	Relative Permittivity (ε_r):	47.62	48.20	-1.20	5
	I Bodv 5800 ⊢	1 - 1		7 (=1/-				
	Body 5800	e"	18.4300	Conductivity (σ).	5.94	6.00	-0.94	5
	Body 5800 Body 5825	e" e'	18.4300 47.6200	Conductivity (σ): Relative Permittivity (ε_r):	5.94 47.62	6.00 48.20	-0.94 -1.20	5 5

SAR Lab E (continued)

Date	Freq. (MHz)		Liq	uid Parameters	Measured	Target	Delta (%)	Limit ±(%)
	Lload F100	e'	37.3600	Relative Permittivity (ε_r) :	37.36	36.01	3.74	5
	Head 5180	e"	15.5300	Conductivity (σ):	4.47	4.63	-3.40	5
	Head 5200	e'	37.3200	Relative Permittivity (ε_r) :	37.32	35.99	3.69	5
	Flead 5200	e"	15.5400	Conductivity (σ):	4.49	4.65	-3.39	5
7/17/2014	Head 5600	e'	36.7500	Relative Permittivity (ε_r) :	36.75	35.53	3.42	5
7/17/2014	rieau 5000	e"	15.7600	Conductivity (σ):	4.91	5.06	-3.02	5
	Head 5800	e'	36.4900	Relative Permittivity (ε_r) :	36.49	35.30	3.37	5
	Tieau 3000	e"	15.9100	Conductivity (σ):	5.13	5.27	-2.64	5
	Head 5825	e'	36.4700	Relative Permittivity (ε_r) :	36.47	35.30	3.31	5
	Fleau 3623	e"	15.9100	Conductivity (σ):	5.15	5.27	-2.22	5
	Body 5180	e'	48.4700	Relative Permittivity (ε_r) :	48.47	49.05	-1.18	5
		e"	18.6000	Conductivity (σ):	5.36	5.27	1.63	5
	Body 5200	e'	48.4300	Relative Permittivity (ε_r) :	48.43	49.02	-1.20	5
	Body 5200	e"	18.6000	Conductivity (σ):	5.38	5.29	1.57	5
7/17/2014	Body 5600	e'	47.7300	Relative Permittivity (ε_r):	47.73	48.48	-1.54	5
7/17/2014	Body 5000	e"	18.9900	Conductivity (σ):	5.91	5.76	2.64	5
	Body 5800	e'	47.4200	Relative Permittivity (ε_r) :	47.42	48.20	-1.62	5
	Body 5800	e"	19.2200	Conductivity (σ):	6.20	6.00	3.31	5
	Body 5825	e'	47.3900	Relative Permittivity (ε_r):	47.39	48.20	-1.68	5
	50uy 5025	e"	19.2300	Conductivity (σ):	6.23	6.00	3.81	5

SAR Lab F

Date	Freq. (MHz)		Liq	uid Parameters	Measured	Target	Delta (%)	Limit ±(%)
	Head 5180	e'	36.5200	Relative Permittivity (ε_r):	36.52	36.01	1.41	5
	Tieau 5100	e"	15.7100	Conductivity (σ):	4.52	4.63	-2.28	5
	Head 5200	e'	36.4800	Relative Permittivity (ε_r):	36.48	35.99	1.36	5
	Ticad 3200	e"	15.6200	Conductivity (σ):	4.52	4.65	-2.90	5
6/23/2014	Head 5600	e'	35.8900	Relative Permittivity (ε_r):	35.89	35.53	1.00	5
0/23/2014	ricad 3000	e"	15.7900	Conductivity (σ):	4.92	5.06	-2.84	5
	Head 5800	e'	35.5700	Relative Permittivity (ε_r):	35.57	35.30	0.76	5
	Tieau 3000	e"	15.9200	Conductivity (σ):	5.13	5.27	-2.58	5
	Head 5825	e'	35.5000	Relative Permittivity (ε_r):	35.50	35.30	0.57	5
	Head 3023	e"	15.8800	Conductivity (σ):	5.14	5.27	-2.40	5
	Body 5180	e'	47.9300	Relative Permittivity (ε_r):	47.93	49.05	-2.28	5
	Body 5160	e"	18.6500	Conductivity (σ):	5.37	5.27	1.90	5
	Pody 5200	e'	47.8200	Relative Permittivity (ε_r):	47.82	49.02	-2.45	5
	Body 5200	e"	18.5300	Conductivity (σ):	5.36	5.29	1.19	5
0/00/0044	D-+- 5000	e'	47.0900	Relative Permittivity (ε_r) :	47.09	48.48	-2.86	5
6/23/2014	Body 5600	e"	18.9200	Conductivity (σ):	5.89	5.76	2.26	5
	Body 5800	e'	46.7200	Relative Permittivity (ε_r):	46.72	48.20	-3.07	5
		e"	19.1400	Conductivity (σ):	6.17	6.00	2.88	5
	Pody 5925	e'	46.6100	Relative Permittivity (ε_r):	46.61	48.20	-3.30	5
	Body 5825	e"	19.1000	Conductivity (σ):	6.19	6.00	3.10	5
		e'	36.1800	Relative Permittivity (ε_r):	36.18	36.01	0.46	5
	Head 5180	e"	15.5100	Conductivity (σ):	4.47	4.63	-3.53	5
		e'	36.0200	Relative Permittivity (ε_r):	36.02	35.99	0.08	5
	Head 5200	e"	15.4500	Conductivity (σ):	4.47	4.65	-3.95	5
		e'	35.4700	Relative Permittivity (ε_r):	35.47	35.53	-0.18	5
6/26/2014	Head 5600	e"	15.6300	Conductivity (σ):	4.87	5.06	-3.82	5
		e'	35.4600	Relative Permittivity (ε_r):	35.46	35.30	0.45	5
	Head 5800	e"	15.6500	Conductivity (σ):	5.05	5.27	-4.23	5
		e'	35.2200	Relative Permittivity (ε_r):	35.22	35.30	-0.23	5
	Head 5825	e"	15.6300	Conductivity (σ):	5.06	5.27	-3.94	5
		e'	49.6800	Relative Permittivity (ε_r):	49.68	49.05	1.29	5
	Body 5180	e"	18.7800	Conductivity (σ):	5.41	5.27	2.61	5
		e'	49.4200	Relative Permittivity (ε_r):	49.42	49.02	0.82	5
	Body 5200	e"	18.7500	Conductivity (σ):	5.42	5.29	2.39	5
		e'	48.7200	Relative Permittivity (ε_r):	48.72	48.48	0.50	5
6/26/2014	Body 5600	e"	19.3400	Conductivity (σ):	6.02	5.76	4.53	5
		e'	48.7900	Relative Permittivity (ε_r):	48.79	48.20	1.22	5
	Body 5800	e"	19.3400	Conductivity (σ):	6.24	6.00	3.95	5
		e'	48.4400	Relative Permittivity (ε_r):	48.44	48.20	0.50	5
	Body 5825	e"	19.3600	Conductivity (σ):	6.27	6.00	4.51	5
		e'	34.9600	Relative Permittivity (ε_r):	34.96	36.01	-2.92	5
	Head 5180	e"	15.7100	Conductivity (σ):	4.52	4.63	-2.92	5
		e'	34.9500	Relative Permittivity (c _r):	34.95	35.99	-2.20	5
	Head 5200	e"	15.7300	Conductivity (σ):	4.55	4.65	-2.09	5
	-	+	34.4400	Relative Permittivity (c _r):	34.44			
6/30/2014	Head 5600	e'				35.53	-3.08	5
		e"	15.8400	Conductivity (σ):	4.93	5.06	-2.53	5
	Head 5800	e'	34.1000	Relative Permittivity (ε_r):	34.10	35.30	-3.40	5
		e"	15.8100	Conductivity (σ):	5.10	5.27	-3.25	5
	Head 5825 ─	e'	34.1000	Relative Permittivity (c _r):	34.10	35.30	-3.40	5
		e"	15.8900	Conductivity (σ):	5.15	5.27	-2.34	5

SAR Lab F (continued)

Date	Freq. (MHz)		Liq	uid Parameters	Measured	Target	Delta (%)	Limit ±(%)
	Rody 5190	e'	47.6800	Relative Permittivity (ε_r):	47.68	49.05	-2.79	5
	Body 5180	e"	18.4400	Conductivity (σ):	5.31	5.27	0.75	5
	D. I. 5000	e'	47.6600	Relative Permittivity (ε_r):	47.66	49.02	-2.77	5
	Body 5200	e"	18.4900	Conductivity (σ):	5.35	5.29	0.97	5
-//		e'	47.0500	Relative Permittivity (ε_r) :	47.05	48.48	-2.95	5
6/30/2014	Body 5600	e"	18.8900	Conductivity (σ):	5.88	5.76	2.10	5
		e'	46.5800	Relative Permittivity (ε_r):	46.58	48.20	-3.36	5
	Body 5800	e"	18.9400	Conductivity (σ):	6.11	6.00	1.80	5
		e'	46.6100	Relative Permittivity (ε_r):	46.61	48.20	-3.30	5
	Body 5825	e"	19.1500	Conductivity (σ):	6.20	6.00	3.37	5
		e'	35.4400	Relative Permittivity (ε_r):	35.44	36.01	-1.59	5
	Head 5180	e"	15.8700	Conductivity (σ):	4.57	4.63	-1.29	5
		e'	35.4100	Relative Permittivity (ε_r):	35.41	35.99	-1.61	5
	Head 5200	e"	15.8700	Conductivity (σ):	4.59	4.65	-1.34	5
		e'	34.7900	Relative Permittivity (ε_r):	34.79	35.53	-2.09	5
7/7/2014	Head 5600	e"	16.1000	Conductivity (σ):	5.01	5.06	-0.93	5
		e'	34.4700	Relative Permittivity (ε_r):	34.47	35.30	-2.35	5
	Head 5800	e"	15.9300	Conductivity (σ):	5.14	5.27	-2.52	5
		+ -		Relative Permittivity (ε_r):				
	Head 5825	e'	34.3800	, , , ,	34.38	35.30	-2.61	5
		e"	16.1100	Conductivity (σ):	5.22	5.27	-0.99	5
	Body 5180	e'	47.4000	Relative Permittivity (c _r):	47.40	49.05	-3.36	5
		e"	18.5200	Conductivity (σ):	5.33	5.27	1.19	5
7/72014	Body 5200	e'	47.3500	Relative Permittivity (c _r):	47.35	49.02	-3.41	5
		e"	18.5400	Conductivity (σ):	5.36	5.29	1.24	5
	Body 5600	e'	46.6600	Relative Permittivity (ε_r):	46.66	48.48	-3.75	5
		e"	19.0000	Conductivity (σ):	5.92	5.76	2.69	5
	Body 5800	e'	46.2100	Relative Permittivity (ε_r):	46.21	48.20	-4.13	5
	Body 5600	e"	18.8400	Conductivity (σ):	6.08	6.00	1.26	5
	Body 5825	e'	46.1500	Relative Permittivity (ε_r):	46.15	48.20	-4.25	5
	Body 6626	e"	19.0900	Conductivity (σ):	6.18	6.00	3.05	5
	Head 5180	e'	37.4300	Relative Permittivity (ε_r):	37.43	36.01	3.93	5
	ricad 5100	e"	15.5700	Conductivity (σ):	4.48	4.63	-3.15	5
	Hood E200	e'	37.4000	Relative Permittivity (ε_r):	37.40	35.99	3.92	5
	Head 5200	e"	15.5800	Conductivity (σ):	4.50	4.65	-3.14	5
7/47/0044	U 1 5000	e'	36.8200	Relative Permittivity (ε_r) :	36.82	35.53	3.62	5
7/17/2014	Head 5600	e"	15.8000	Conductivity (σ):	4.92	5.06	-2.78	5
		e'	36.5600	Relative Permittivity (ε_r):	36.56	35.30	3.57	5
	Head 5800	e"	15.9300	Conductivity (σ):	5.14	5.27	-2.52	5
		e'	36.5400	Relative Permittivity (ε_r):	36.54	35.30	3.51	5
	Head 5825	e"	15.9300	Conductivity (σ):	5.16	5.27	-2.10	5
		e'	47.6400	Relative Permittivity (ε_r):	47.64	49.05	-2.87	5
	Body 5180	e"	18.4300	Conductivity (σ):	5.31	5.27	0.70	5
		e'	47.6000	Relative Permittivity (ε_r):	47.60	49.02	-2.90	5
	Body 5200	e"	18.4300	Conductivity (σ):	5.33	5.29	0.64	5
		e'	46.9100	Relative Permittivity (c _r):	46.91	48.48	-3.23	5
7/17/2014	Body 5600	e"		, , , ,				
		+ -	18.8300	Conductivity (σ):	5.86	5.76	1.77	5
	Body 5800	e'	46.6200	Relative Permittivity (c _r):	46.62	48.20	-3.28	5
		e"	19.0500	Conductivity (σ):	6.14	6.00	2.39	5
	■ Body 5825	e'	46.5900	Relative Permittivity (c _r):	46.59	48.20	-3.34	5
	200, 0020	е"	19.0500	Conductivity (σ):	6.17	6.00	2.83	5

SAR Lab G

Date	Freq. (MHz)		Liq	uid Parameters	Measured	Target	Delta (%)	Limit ±(%)
		e'	40.3900	Relative Permittivity (ε_r):	40.39	40.08	0.76	5
	Head 1750	e"	13.5600	Conductivity (σ):	1.32	1.37	-3.62	5
0/40/0044	11 1.4740	e'	40.5800	Relative Permittivity (ε_r) :	40.58	40.15	1.08	5
6/19/2014	Head 1710	e"	13.4800	Conductivity (σ):	1.28	1.35	-4.81	5
		e'	40.3800	Relative Permittivity (ε_r) :	40.38	40.08	0.76	5
	Head 1755	e"	13.5900	Conductivity (σ):	1.33	1.37	-3.33	5
	D 1 1750	e'	52.0100	Relative Permittivity (ε_r) :	52.01	53.44	-2.68	5
	Body 1750	e"	14.9600	Conductivity (σ):	1.46	1.49	-2.05	5
0/40/0044	D. I. 4740	e'	52.1700	Relative Permittivity (ε_r) :	52.17	53.54	-2.57	5
6/19/2014	Body 1710	e"	14.9300	Conductivity (σ):	1.42	1.46	-2.87	5
	D. I. 4755	e'	52.0000	Relative Permittivity (ε_r) :	52.00	53.43	-2.67	5
	Body 1755	e"	14.9800	Conductivity (σ):	1.46	1.49	-1.84	5
	1114750	e'	38.4000	Relative Permittivity (ε_r) :	38.40	40.08	-4.20	5
	Head 1750	e"	13.6200	Conductivity (σ):	1.33	1.37	-3.19	5
0/00/0044		e'	38.5900	Relative Permittivity (ε_r):	38.59	40.15	-3.88	5
6/23/2014	Head 1710	e"	13.4900	Conductivity (σ):	1.28	1.35	-4.74	5
	111.4755	e'	38.3900	Relative Permittivity (ε _r):	38.39	40.08	-4.21	5
	Head 1755	e"	13.6500	Conductivity (σ):	1.33	1.37	-2.90	5
	D. I. 4750	e'	51.8000	Relative Permittivity (ε_r) :	51.80	53.44	-3.07	5
	Body 1750	e"	15.1500	Conductivity (σ):	1.47	1.49	-0.81	5
6/23/2014	D. I. 4740	e'	51.9400	Relative Permittivity (ε_r) :	51.94	53.54	-2.99	5
	Body 1710	e"	15.0400	Conductivity (σ):	1.43	1.46	-2.16	5
	D 1 1755	e'	51.7900	Relative Permittivity (ε_r):	51.79	53.43	-3.07	5
	Body 1755	e"	15.1600	Conductivity (σ):	1.48	1.49	-0.66	5
		e'	39.2300	Relative Permittivity (ε _r):	39.23	40.08	-2.13	5
	Head 1750	e"	13.7200	Conductivity (σ):	1.34	1.37	-2.48	5
	Head 1710	e'	39.3000	Relative Permittivity (ε _r):	39.30	40.15	-2.11	5
6/26/2014		e"	13.6600	Conductivity (σ):	1.30	1.35	-3.54	5
		e'	39.2200	Relative Permittivity (ε_r):	39.22	40.08	-2.14	5
	Head 1755	e"	13.7500	Conductivity (σ):	1.34	1.37	-2.19	5
	D 1 1750	e'	52.0300	Relative Permittivity (ε_r) :	52.03	53.44	-2.64	5
	Body 1750	e"	15.4100	Conductivity (σ):	1.50	1.49	0.90	5
0/00/0044	D 1 1710	e'	52.0500	Relative Permittivity (ε_r) :	52.05	53.54	-2.79	5
6/26/2014	Body 1710	e"	15.3900	Conductivity (σ):	1.46	1.46	0.12	5
	D 1 1755	e'	52.0400	Relative Permittivity (ε_r):	52.04	53.43	-2.60	5
	Body 1755	e"	15.4400	Conductivity (σ):	1.51	1.49	1.17	5
		e'	41.4600	Relative Permittivity (ε_r) :	41.46	40.08	3.43	5
	Head 1750	e"	13.7500	Conductivity (σ):	1.34	1.37	-2.27	5
		e'	41.6500	Relative Permittivity (ε_r):	41.65	40.15	3.75	5
6/30/2014	Head 1710	e"	13.7100	Conductivity (σ):	1.30	1.35	-3.18	5
		e'	41.4200	Relative Permittivity (ε_r):	41.42	40.08	3.35	5
	Head 1755	e"	13.8100	Conductivity (σ):	1.35	1.37	-1.76	5
	D 1 1	e'	52.0200	Relative Permittivity (ε _r):	52.02	53.44	-2.66	5
	Body 1750	e"	15.3100	Conductivity (σ):	1.49	1.49	0.24	5
0/05/55:	D	e'	52.1700	Relative Permittivity (ε _r):	52.17	53.54	-2.57	5
6/30/2014	Body 1710	e"	15.3000	Conductivity (σ):	1.45	1.46	-0.46	5
	е	e'	51.9800	Relative Permittivity (ε_r):	51.98	53.43	-2.71	5
		-	15.3400	Conductivity (σ):	1.50	1.49	0.52	5

SAR Lab G (continued)

Date	Freq. (MHz)		Liq	uid Parameters	Measured	Target	Delta (%)	Limit ±(%)
	Body 1900	e'	52.5100	Relative Permittivity (ε_r):	52.51	53.30	-1.48	5
	Body 1900	e"	14.2700	Conductivity (σ):	1.51	1.52	-0.82	5
7/2/2014	Body 1850	e'	52.6200	Relative Permittivity (ε_r):	52.62	53.30	-1.28	5
1/2/2014	Body 1630	e"	14.3100	Conductivity (σ):	1.47	1.52	-3.16	5
	Body 1910	e'	52.4900	Relative Permittivity (ε_r):	52.49	53.30	-1.52	5
	Body 1910	e"	14.2600	Conductivity (σ):	1.51	1.52	-0.37	5
	Body 1900	e'	51.9900	Relative Permittivity (ε_r):	51.99	53.30	-2.46	5
	Body 1900	e"	14.5900	Conductivity (σ):	1.54	1.52	1.41	5
7/7/2014	Body 1850	e'	52.1800	Relative Permittivity (ε_r):	52.18	53.30	-2.10	5
7/1/2014	600y 1650	e"	14.6200	Conductivity (σ):	1.50	1.52	-1.06	5
	Body 1910	e'	51.9900	Relative Permittivity (ε_r):	51.99	53.30	-2.46	5
	Body 1910	e"	14.6300	Conductivity (σ):	1.55	1.52	2.22	5
	Body 1750	e'	52.0900	Relative Permittivity (ε_r):	52.09	53.44	-2.53	5
		e"	15.3100	Conductivity (σ):	1.49	1.49	0.24	5
7/7/2014	Body 1710	e'	52.3000	Relative Permittivity (ε_r):	52.30	53.54	-2.32	5
7/1/2014	Body 1710	e"	15.3900	Conductivity (σ):	1.46	1.46	0.12	5
	Body 1755	e'	52.0500	Relative Permittivity (ε_r):	52.05	53.43	-2.58	5
	Body 1755	e"	15.3100	Conductivity (σ):	1.49	1.49	0.32	5
	Body 1900	e'	51.3800	Relative Permittivity (ε_r):	51.38	53.30	-3.60	5
	Body 1900	e"	14.9100	Conductivity (σ):	1.58	1.52	3.63	5
7/17/2014	Body 1850	e'	51.2600	Relative Permittivity (ε_r):	51.26	53.30	-3.83	5
7/17/2014	Body 1650	e"	14.9200	Conductivity (σ):	1.53	1.52	0.97	5
	Body 1910	e'	51.2500	Relative Permittivity (ε_r):	51.25	53.30	-3.85	5
	Body 1910	e"	14.9100	Conductivity (σ):	1.58	1.52	4.18	5

SAR Lab H

	Head 1900	e'	38.6500	Relative Permittivity (ε_r):	38.65	40.00	-3.38	_
	nead 1900			3 (),	00.00	40.00	-5.50	5
		e"	13.5600	Conductivity (σ):	1.43	1.40	2.33	5
6/40/0044	Lload 1050	e'	38.8900	Relative Permittivity (ε_r) :	38.89	40.00	-2.78	5
6/19/2014	Head 1850	e"	13.4500	Conductivity (σ):	1.38	1.40	-1.18	5
	111.4040	e'	38.6200	Relative Permittivity (ε_r) :	38.62	40.00	-3.45	5
	Head 1910	e"	13.6000	Conductivity (σ):	1.44	1.40	3.17	5
	B 1 4000	e'	51.3600	Relative Permittivity (ε_r):	51.36	53.30	-3.64	5
	Body 1900	e"	14.4500	Conductivity (σ):	1.53	1.52	0.43	5
		e'	51.5400	Relative Permittivity (ε_r):	51.54	53.30	-3.30	5
6/19/2014	Body 1850	e"	14.3200	Conductivity (σ):	1.47	1.52	-3.09	5
		e'	51.3500	Relative Permittivity (ε_r):	51.35	53.30	-3.66	5
	Body 1910	e"	14.4900	Conductivity (σ):	1.54	1.52	1.24	5
		e'	38.9100	Relative Permittivity (ε_r):	38.91	40.00	-2.73	5
	Head 1900	e"	13.4100	Conductivity (σ):	1.42	1.40	1.19	5
		e'	39.0600	Relative Permittivity (ε_r):	39.06	40.00	-2.35	5
6/23/2014	Head 1850	e"	13.3500	Conductivity (σ):	1.37	1.40	-1.91	5
		e'	38.9100	Relative Permittivity (ε_r):	38.91	40.00	-2.73	5
	Head 1910	e"	13.4100	Conductivity (σ):	1.42	1.40	1.73	5
		e'	51.3500	Relative Permittivity (ε_r):	51.35	53.30	-3.66	5
	Body 1900	e"	14.6400	Conductivity (σ):	1.55	1.52	1.75	5
		+ -		Relative Permittivity (ε_r):				
6/23/2014	Body 1850	e'	51.4800		51.48	53.30	-3.41	5
		e"	14.5800	Conductivity (σ):	1.50	1.52	-1.33	5
	Body 1910	e'	51.3500	Relative Permittivity (ε_r):	51.35	53.30	-3.66	5
		e"	14.6500	Conductivity (σ):	1.56	1.52	2.36	5
	Head 1900	e'	39.5000	Relative Permittivity (ε_r):	39.50	40.00	-1.25	5
		e"	13.1800	Conductivity (σ):	1.39	1.40	-0.54	5
6/26/2014	Head 1850	e'	39.7100	Relative Permittivity (ε _r):	39.71	40.00	-0.72	5
		e"	13.0500	Conductivity (σ):	1.34	1.40	-4.11	5
	Head 1910	e'	39.4500	Relative Permittivity (ε_r):	39.45	40.00	-1.37	5
		e"	13.2000	Conductivity (σ):	1.40	1.40	0.13	5
	Body 1900	e'	50.9900	Relative Permittivity (ε_r):	50.99	53.30	-4.33	5
		e"	14.5800	Conductivity (σ):	1.54	1.52	1.34	5
6/26/2014	Body 1850	e'	51.1800	Relative Permittivity (ε_r):	51.18	53.30	-3.98	5
0,20,20	200, 1000	e"	14.4800	Conductivity (σ):	1.49	1.52	-2.01	5
	Body 1910	e'	50.9500	Relative Permittivity (ε_r):	50.95	53.30	-4.41	5
	Body 1010	e"	14.6200	Conductivity (σ):	1.55	1.52	2.15	5
	Head 1900	e'	39.5600	Relative Permittivity (ε_r):	39.56	40.00	-1.10	5
	Ticad 1500	e"	13.2700	Conductivity (σ):	1.40	1.40	0.14	5
6/30/2014	Head 1850	e'	39.7900	Relative Permittivity (ε_r) :	39.79	40.00	-0.53	5
0/30/2014	Tieau 1000	e"	13.1300	Conductivity (σ):	1.35	1.40	-3.53	5
	Hood 1010	e'	39.5200	Relative Permittivity (ε_r):	39.52	40.00	-1.20	5
	Head 1910	e"	13.3200	Conductivity (σ):	1.41	1.40	1.04	5
	D-4. 1000	e'	51.6800	Relative Permittivity (ε_r) :	51.68	53.30	-3.04	5
	Body 1900	e"	14.3300	Conductivity (σ):	1.51	1.52	-0.40	5
		e'	51.8800	Relative Permittivity (ε_r):	51.88	53.30	-2.66	5
6/30/2014	Body 1850 🛏	e"	14.2200	Conductivity (σ):	1.46	1.52	-3.77	5
0/00/2014	е							
0/00/2014		e'	51.6600	Relative Permittivity (ε_r):	51.66	53.30	-3.08	5

SAR Lab H (continued)

Date	Freq. (MHz)		Liq	uid Parameters	Measured	Target	Delta (%)	Limit ±(%)
	Head 1900	e'	40.5600	Relative Permittivity (ε_r):	40.56	40.00	1.40	5
	Head 1900	e"	13.3500	Conductivity (σ):	1.41	1.40	0.74	5
7/7/2014	Head 1850	e'	40.8600	Relative Permittivity (ε_r):	40.86	40.00	2.15	5
7/7/2014	Head 1650	e"	13.2400	Conductivity (σ):	1.36	1.40	-2.72	5
	Head 1910	e'	40.5400	Relative Permittivity (ε_r):	40.54	40.00	1.35	5
	Head 1910	e"	13.4200	Conductivity (σ):	1.43	1.40	1.80	5
	Body 1900	e'	51.4400	Relative Permittivity (ε_r):	51.44	53.30	-3.49	5
	Body 1900	e"	14.8700	Conductivity (σ):	1.57	1.52	3.35	5
7/7/2014	Body 1850	e'	51.7000	Relative Permittivity (ε_r) :	51.70	53.30	-3.00	5
7/7/2014	Body 1030	e"	14.7300	Conductivity (σ):	1.52	1.52	-0.31	5
	Body 1910	e'	51.4400	Relative Permittivity (ε_r):	51.44	53.30	-3.49	5
	Бойу 1910	e"	14.9500	Conductivity (σ):	1.59	1.52	4.46	5
	Head 1900	e'	40.0900	Relative Permittivity (ε_r):	40.09	40.00	0.23	5
		e"	13.3300	Conductivity (σ):	1.41	1.40	0.59	5
7/17/2014	Head 1850	e'	40.2900	Relative Permittivity (ε_r):	40.29	40.00	0.72	5
7/17/2014	Head 1650	e"	13.2200	Conductivity (σ):	1.36	1.40	-2.87	5
	Head 1910	e'	40.0500	Relative Permittivity (ε_r):	40.05	40.00	0.12	5
	Head 1910	e"	13.3500	Conductivity (σ):	1.42	1.40	1.27	5
	Body 1900	e'	51.1900	Relative Permittivity (ε_r):	51.19	53.30	-3.96	5
	Бойу 1900	e"	14.7900	Conductivity (σ):	1.56	1.52	2.80	5
7/17/2014	Body 1850	e'	51.3700	Relative Permittivity (ε_r):	51.37	53.30	-3.62	5
1/11/2014	Body 1650	e"	14.6600	Conductivity (σ):	1.51	1.52	-0.79	5
	Body 1910	e'	51.1500	Relative Permittivity (ε_r):	51.15	53.30	-4.03	5
	Body 1910	e"	14.8200	Conductivity (σ):	1.57	1.52	3.55	5

10. System Check & SAR Scan Procedure

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 remeasured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

10.1. Reference Target SAR Values

The reference SAR values can be obtained from the calibration certificate of system validation dipoles

0 , 5 ,	0 : 11	0.1.5.	5 (441)	Ta	arget SAR Values (V	V/kg)
System Dipole	Serial No.	Cal. Date	Freq. (MHz)	1g/10g	Head	Body
D750V3	1024	5/16/2014	750	1g	8.12	8.77
D750V3	1024	5/16/2014	750	10g	5.26	5.79
D835V2	4d142	9/17/2013	835	1g	9.44	9.36
D635V2	40142	9/17/2013	633	10g	6.12	6.20
D1750V2	1050	4/22/2014	1750	1g	36.6	37.2
D1730V2	1030	4/22/2014	1750	10g	19.4	20.0
D1750V2	1053	8/27/2013	1750	1g	36.7	37.7
D1730V2	1055	0/21/2013	1750	10g	19.5	20.3
D1900V2	5d140	4/23/2014	1900	1g	40.1	40.2
D1900V2	3u 140	4/23/2014	1900	10g	21.0	21.3
D1900V2	5d163	9/17/2013	1900	1g	40.9	40.1
D1900V2	30103	9/17/2013	1900	10g	21.2	21.2
D2450V2	748	2/18/2014	2450	1g	51.6	50.7
D2430V2	740	2/10/2014	2430	10g	24.0	23.7
D2450V2	706	5/20/2014	2450	1g	53.0	50.2
DZ-100 V Z	700	0/20/2014	2400	10g	24.5	23.4
D2600V2	1036	3/12/2014	2600	1g	57.4	56.4
D2000V2	1000	3/12/2014	2000	10g	25.7	25.0
			5200	1g	77.7	73.5
			0200	10g	22.2	20.5
D5GHzV2	1003	2/26/2014	5600	1g	81.8	79.6
50011272	1000	2/20/2014		10g	23.2	22.1
			5800	1g	78.3	73.8
			0000	10g	22.1	20.4
			5200	1g	79.3	75.2
			3200	10g	22.7	21.0
D5GHzV2	1168	12/12/2013	5600	1g	85.3	80.6
20011212	1100	12, 12,2010	5500	10g	24.3	22.3
			5800	1g	81.0	75.7
			3300	10g	22.9	20.9

10.2. System Check Results

The 1-g and 10-g SAR measured with a reference dipole, using the required tissue-equivalent medium at the test frequency, must be within 10% of the manufacturer calibrated dipole SAR target.

SAR Lab A

	System	Dipole	т.	,	N	leasured Resi	ults	Target	Delte	Cat /7aa:	Dist
Date Tested	Туре	Serial #	T.S Liqu		Area Scan	Zoom Scan	Normalize to 1 W	(Ref. Value)	Delta ±10 %	Est./Zoom Ratio	Plot No.
6/19/2014	D750V3	1024	Head	1g	0.865	0.825	8.25	8.12	1.60	4.62	
0/19/2014	D730V3	1024	Heau	10g	0.586	0.540	5.40	5.26	2.66		
6/19/2014	D750V3	1024	Body	1g	0.988	0.896	8.96	8.77	2.17	9.31	
0/19/2014	D730V3	1024	Body	10g	0.665	0.596	5.96	5.79	2.94		
6/23/2014	D750V3	1024	Head	1g	0.812	0.784	7.84	8.12	-3.45	3.45	1,2
0/23/2014	D/30V3	1024	пеац	10g	0.551	0.514	5.14	5.26	-2.28		1,2
6/23/2014	D750V3	1024	Body	1g	0.856	0.848	8.48	8.77	-3.31	0.93	
0/23/2014	D130V3	1027	Body	10g	0.579	0.563	5.63	5.79	-2.76		,
6/24/2014	D2600V2	1036	Head	1g	6.04	5.80	58.0	57.4	1.05	3.97	
0/24/2014	D2000 V Z	1030	Heau	10g	2.69	2.53	25.3	25.7	-1.56		,
6/24/2014	D2600V2	1036	Body	1g	6.11	5.92	59.2	56.4	4.96	3.11	3,4
0/24/2014	D2000V2	1036	Бойу	10g	2.67	2.59	25.9	25.0	3.60		3,4
6/30/2014	D2600V2	1036	Head	1g	5.87	5.61	56.1	57.4	-2.26	4.43	
0/30/2014	D2000V2	1036	пеац	10g	2.61	2.46	24.6	25.7	-4.28		
6/30/2014	D2600V2	1036	Body	1g	6.08	5.81	58.1	56.4	3.01	4.44	
0/30/2014	D2000V2	1036	Бойу	10g	2.64	2.55	25.5	25.0	2.00		,
7/7/2014	D2600V2	1036	Head	1g	6.44	5.96	59.6	57.4	3.83	7.45	
1/1/2014	D2000V2	1036	пеаа	10g	2.84	2.59	25.9	25.7	0.78)
7/7/2014	D2600\/2	1026	Dody	1g	6.23	5.90	59.0	56.4	4.61	5.30	
7/7/2014	D2600V2	1036	Body	10g	2.71	2.57	25.7	25.0	2.80		

SAR Lab B

	System	Dipole	т.с		M	leasured Resi	ults	Target	Dalta	Cat /7aam	Plot		
Date Tested	Туре	Serial #	T.S Liqu		Area Scan	Zoom Scan	Normalize to 1 W	(Ref. Value)	Delta ±10 %	Est./Zoom Ratio	No.		
6/19/2014	D2450V2	748	Head	1g	5.41	5.07	50.7	51.6	-1.74	6.28			
0/19/2014	D2430 V2	7	Tieau	10g	2.39	2.32	23.2	24.0	-3.33				
6/19/2014	D2450V2	748	Body	1g	5.73	5.32	53.2	50.7	4.93	7.16	5,6		
0/19/2014	D2430 V2	7	Dody	10g	2.47	2.44	24.4	23.7	2.95		5,0		
6/23/2014	D2450V2	706	Head	1g	5.43	5.40	54.0	53.0	1.89	0.55			
0/23/2014	D2430 V2	706	700	, 50	Tieau	10g	2.39	2.46	24.6	24.5	0.41		
6/23/2014	D2450V2	706	Body	1g	4.98	4.99	49.9	50.2	-0.60	-0.20			
0/23/2014	D2430 V2	700	Dody	10g	2.15	2.28	22.8	23.4	-2.56				
6/26/2014	D2450V2	706	Head	1g	5.35	5.33	53.3	53.0	0.57	0.37			
0/20/2014	D2430 V Z	700	Heau	10g	2.37	2.43	24.3	24.5	-0.82				
6/26/2014	D2450V2	706	Body	1g	5.20	5.32	53.2	50.2	5.98	-2.31			
0/20/2014	D2430 V Z	700	Бойу	10g	2.27	2.44	24.4	23.4	4.27				
6/30/2014	D2450V2	706	Head	1g	5.29	5.22	52.2	53.0	-1.51	1.32			
0/30/2014	D2430V2	700	rieau	10g	2.33	2.41	24.1	24.5	-1.63				
6/30/2014	D2450V2	706	Body	1g	5.33	5.49	54.9	50.2	9.36	-3.00	7,8		
0/30/2014	D2430V2	700	Бойу	10g	2.29	2.53	25.3	23.4	8.12		7,0		

SAR Lab C

Date Tested	System Dipole		т.о.		M	leasured Resi	ults	Target	Dalta	F-1 /7	Dist
	Туре	Serial #	T.S. Liquid		Area Scan	Zoom Scan	Normalize to 1 W	(Ref. Value)	Delta ±10 %	Est./Zoom Ratio	Plot No.
6/30/2014 D19	D1900V2	5d163	Head	1g	4.38	4.30	43.0	40.9	5.13	1.83	
	D1900V2			10g	2.25	2.22	22.2	21.2	4.72		
6/30/2014	D1900V2	5d163	Body	1g	4.27	4.26	42.6	40.1	6.23	0.23	9,10
			Body	10g	2.14	2.21	22.1	21.2	4.25		9,10

SAR Lab D

Date Tested	System Dipole		Τ.0		N	leasured Resi	ults	Target	Dolto	F-1 /7	Plot			
	Туре	Serial #	T.S. Liquid		Area Scan	Zoom Scan	Normalize to 1 W	(Ref. Value)	Delta ±10 %	Est./Zoom Ratio	No.			
6/19/2014 D835V2	D935\/2	4d142	Head	1g	0.915	0.892	8.92	9.44	-5.51	2.51				
	D033V2	40142	Heau	10g	0.615	0.584	5.84	6.12	-4.58					
6/19/2014	D835V2	4d142	Body	1g	0.935	0.917	9.17	9.36	-2.03	1.93				
0/13/2014	D033 V Z	40142	Dody	10g	0.626	0.602	6.02	6.20	-2.90					
6/23/2014	D835V2	4d142	Head	1g	0.911	0.890	8.90	9.44	-5.72	2.31				
0/23/2014	D033V2	40142	Heau	10g	0.612	0.582	5.82	6.12	-4.90					
6/23/2014	D835V2	4d142	Body	1g	0.967	0.938	9.38	9.36	0.21	3.00				
0/23/2014	/2014 D035V2	40142	Бойу	10g	0.647	0.617	6.17	6.20	-0.48					
6/24/2014	D1900V2	5d163	Body	1g	4.07	4.05	40.5	40.1	1.00	0.49	11,12			
0/24/2014	D1900VZ		Dody	10g	2.04	2.10	21.0	21.2	-0.94		11,12			
6/26/2014	D835V2	4d142	Head	1g	0.998	0.976	9.76	9.44	3.39	2.20				
0/20/2014	D000 V Z	70172		10g	0.669	0.639	6.39	6.12	4.41					
6/26/2014	D835V2	4d142	ld142 Body	1g	1.02	1.01	10.1	9.36	7.91	0.98	13,14			
0/20/2014	D000 V Z			10g	0.685	0.659	6.59	6.20	6.29		13,14			
6/30/2014	D835V2	4d142	4d142	Head	1g	1.03	0.999	9.99	9.44	5.83	3.01			
0/30/2014	D000 V Z		ricad	10g	0.692	0.653	6.53	6.12	6.70					
6/30/2014	D835V2	V2 4d142	4d142	4d142	4d142	Body	1g	1.00	0.953	9.53	9.36	1.82	4.70	
0/30/2014	D000 V Z					4u 142	70172	Dody	10g	0.669	0.626	6.26	6.20	0.97
7/8/2014	D750V3	3 1024	1024	1024	1024 Body	1g	0.882	0.860	8.60	8.77	-1.94	2.49	15,16	
1/0/2014 D/30V3	D750V5		Body	10g	0.597	0.573	5.73	5.79	-1.04		13,10			
7/17/2014	D835V2	35V2 4d142	Head	1g	0.922	0.897	8.97	9.44	-4.98	2.71				
1/11/2014	2000 72		ricad	10g	0.619	0.586	5.86	6.12	-4.25					
7/17/2014	D835V2	4d142	Body	1g	0.993	0.961	9.61	9.36	2.67	3.22				
1/11/2014	2000 72	70172	Dody	10g	0.664	0.630	6.30	6.20	1.61					

SAR Lab E

	System	T.S.		N	leasured Res	ults	Target	Delta	Est./Zoom	Plot		
Date Tested	Туре	Serial #	Liqu		Area Scan	Zoom Scan	Normalize to 1 W	(Ref. Value)	±10 %	Ratio	No.	
6/19/2014	DE600\/2	1160		1g	7.43	8.06	80.6	85.3	-5.51	-8.48		
0/19/2014 D5000V2	D5600V2	1168	Head	10g	2.09	2.30	23.0	24.3	-5.35			
C/40/0044 DEC00V	D5600V2	1168	Pody	1g	7.62	8.11	81.1	80.6	0.62	-6.43		
6/19/2014	D3000V2	1100	Body	10g	2.10	2.27	22.7	22.3	1.79			
6/23/2014	D5600V2	1168	Head	1g	7.39	7.92	79.2	85.3	-7.15	-7.17		
0/23/2014	D3000 V2	1100	Heau	10g	2.06	2.24	22.4	24.3	-7.82			
6/23/2014	D5600V2	1168	Body	1g	7.45	7.92	79.2	80.6	-1.74	-6.31		
0/23/2014	D3000 V2	1100	Dody	10g	2.03	2.21	22.1	22.3	-0.90			
6/26/2014	D5600V2	1168	Head	1g	8.26	8.44	84.4	85.3	-1.06	-2.18		
0/20/2014	D3000 V2	1100	Heau	10g	2.32	2.41	24.1	24.3	-0.82			
6/26/2014	D5600V2	1168	Body	1g	8.05	8.31	83.1	80.6	3.10	-3.23		
0/20/2014	D3000 VZ	1100	Body	10g	2.18	2.33	23.3	22.3	4.48			
6/26/2014	DE200\/2	4400	Head	1g	8.11	8.57	85.7	79.3	8.07	-5.67		
0/20/2014	14 D5200V2 1168	1100	Heau	10g	2.26	2.45	24.5	22.7	7.93			
6/26/2014	DE200\/2	1168	Body	1g	7.34	7.66	76.6	75.2	1.86	-4.36		
0/20/2014	6/2014 D5200V2	1100		10g	2.04	2.18	21.8	21.0	3.81			
6/20/2014	/20/2044 DEC00\/0	1168	Llood	1g	6.66	8.47	84.7	85.3	-0.70	-27.18		
6/30/2014 D5600V2	1100	Head	10g	1.89	2.41	24.1	24.3	-0.82				
C/20/2044 DECCOVO	1160	Pody	1g	7.73	8.21	82.1	80.6	1.86	-6.21			
6/30/2014	30/2014 D5600V2 1	1168	Body	10g	2.09	2.30	23.0	22.3	3.14			
7/1/2014	DE200\/2	1100	4400	1g	7.78	7.57	75.7	79.3	-4.54	2.70		
7/1/2014	D5200V2	1168	Head	10g	2.22	2.17	21.7	22.7	-4.41			
7/4/2044	DE200\/2	1160	168 Body	1g	7.06	7.39	73.9	75.2	-1.73	-4.67		
7/1/2014	D5200V2	1100		10g	1.94	2.10	21.0	21.0	0.00			
7/7/2014	DE600\/0	2 1168	Llood	1g	8.03	8.77	87.7	85.3	2.81	-9.22		
7/7/2014	D5600V2		1168	Head	10g	2.28	2.50	25.0	24.3	2.88		
7/7/2014	DE600\/0	1168	0 4400	Dody	1g	8.05	8.40	84.0	80.6	4.22	-4.35	
7/7/2014	D5600V2		Body	10g	2.18	2.35	23.5	22.3	5.38			
7/17/2014	DE200\/2	5200V2 1168	Llood	1g	7.17	7.96	79.6	79.3	0.38	-11.02		
7/17/2014	D3200V2		Head	10g	2.06	2.26	22.6	22.7	-0.44			
7/17/2014	DE200\/2	1160	Dody	1g	6.87	7.38	73.8	75.2	-1.86	-7.42		
7/17/2014	D5200V2	1168	Body	10g	1.94	2.09	20.9	21.0	-0.48			
7/17/2014	DE600\/2	5600V2 1168	168 Head	1g	7.28	7.96	79.6	85.3	-6.68	-9.34		
1/11/2014	D3000V2			10g	2.06	2.27	22.7	24.3	-6.58			
7/17/2014	DECONIO	00V2 1168	1168 Body	1g	7.56	8.09	80.9	80.6	0.37	-7.01		
7/17/2014	D5600V2			10g	2.08	2.30	23.0	22.3	3.14			
7/17/0044	DE000\/0	1100	Head	1g	6.87	7.71	77.1	81.0	-4.81	-12.23		
7/17/2014	D5800V2	0V2 1168	Head	10g	1.93	2.18	21.8	22.9	-4.80			
7/47/004 4	DE000\/0	1100	Derly	1g	6.39	6.90	69.0	75.7	-8.85	-7.98	47.	
7/17/2014	D5800V2	1168	Body	10g	1.77	1.93	19.3	20.9	-7.66		17,1	

SAR Lab F

	System	Dipole	T.S.		N	leasured Res	ults	Target	Dolto	Est./Zoom	Dlot			
Date Tested	Туре	Serial #	T.S Liqu		Area Scan	Zoom Scan	Normalize to 1 W	(Ref. Value)	Delta ±10 %	Ratio	Plot No.			
0/00/0044	DE000\/0	4000		1g	7.61	7.95	79.50	77.70	2.32	-4.47				
6/23/2014 D5200V2	1003	Head	10g	2.11	2.29	22.90	22.20	3.15						
C/02/2014 DE2001	DE200\/2	1003	Body	1g	7.14	7.49	74.90	73.50	1.90	-4.90				
0/23/2014	5/23/2014 D5200V2	1003		10g	1.95	2.13	21.30	20.50	3.90					
6/23/2014	D5800V2	1003	Head	1g	6.75	7.29	72.90	78.30	-6.90	-8.00				
0/23/2014	D3000 V Z	1000	ricad	10g	1.82	2.05	20.50	22.10	-7.24					
6/23/2014	D5800V2	1003	Body	1g	7.00	7.54	75.40	73.80	2.17	-7.71				
0/23/2014	D3000 V Z	1005	Body	10g	1.91	2.15	21.50	20.40	5.39					
6/26/2014	D5800V2	1003	Head	1g	6.83	7.42	74.20	78.3	-5.24	-8.64				
0/20/2014	DOOGGVZ	1000	ricad	10g	1.84	2.07	20.70	22.1	-6.33					
6/26/2014	D5800V2	1003	Body	1g	7.19	7.57	75.70	73.8	2.57	-5.29				
0/20/2014	D3000 V Z	1005	Body	10g	1.98	2.17	21.70	20.4	6.37					
6/27/2014	D5200V2	1003	Head	1g	7.20	7.43	74.30	77.7	-4.38	-3.19				
0/21/2014	D3200V2	1003	Head	10g	1.99	2.14	21.40	22.2	-3.60					
6/27/2014	6/27/2014 D5200V2 1003	1003	Body	1g	7.14	7.60	76.00	73.50	3.40	-6.44				
0/21/2014		1003		10g	1.96	2.15	21.50	20.50	4.88					
6/20/2014	D/2014 D5200V2 100	1003	Head	1g	6.86	7.77	77.70	77.7	0.00	-13.27				
0/30/2014		1003		10g	1.95	2.25	22.50	22.2	1.35					
6/30/2014 D5200V2	1003	13 Body	1g	7.36	7.78	77.80	73.5	5.85	-5.71					
0/30/2014	2014 D5200V2 1003	1003	Body	10g	2.03	2.23	22.30	20.5	8.78					
6/30/2014	D5800V2	1003	1003 Head	1g	7.36	7.49	74.90	78.3	-4.34	-1.77				
0/30/2014	D3600V2	1003	пеац	10g	2.05	2.16	21.60	22.1	-2.26					
6/30/2014	D5800V2	V2 1003	3 Body	1g	5.92	7.50	75.00	73.8	1.63	-26.69				
0/30/2014	D3600V2			10g	1.65	2.15	21.50	20.4	5.39					
7/7/2014	D5200V2	1003	Head	1g	6.70	7.31	73.1	77.7	-5.92	-9.10				
7/1/2014	D3200V2	1003	пеац	10g	1.91	2.10	21.0	22.2	-5.41					
7/7/2014	D5200V2)V2 1003	1003	Body	1g	6.50	6.89	68.9	73.5	-6.26	-6.00			
7/1/2014	D3200V2			1003	1003	1003	12 1003	Бойу	10g	1.78	1.96	19.6	20.5	-4.39
7/7/2014	D5800V2	1003	Head	1g	6.72	7.44	74.4	78.3	-4.98	-10.71				
1/1/2014	D3000 V2	1003		10g	1.88	2.10	21.0	22.1	-4.98					
7/7/2014	D5800V2	1003	1003 Body	1g	6.39	6.80	68.0	73.8	-7.86	-6.42	19,2			
1/1/2014	D3000 V2	1003	Бойу	10g	1.74	1.91	19.1	20.4	-6.37		13,2			
7/17/2014	D5200V2	1003	1002 Head	1g	7.64	8.32	83.2	77.7	7.08	-8.90				
7/17/2014	D3200V2	1003	Head	10g	2.12	2.33	23.3	22.2	4.95					
7/17/2014	D5200V2	1003	Body	1g	7.24	7.84	78.4	73.5	6.67	-8.29				
1/11/2014	D320072		Bouy	10g	2.04	2.23	22.3	20.5	8.78					
7/17/2014	D5800V2	1003	Head	1g	6.42	8.10	81.0	78.3	3.45	-26.17				
1/11/2014	D3000 V Z	1003	rieau	10g	1.81	2.28	22.8	22.1	3.17					
7/17/2014	D5800V2	10 1000	Body	1g	6.66	7.14	71.4	73.8	-3.25	-7.21				
7/17/2014	D3000V2	1003	Body	10g	1.83	2.01	20.1	20.4	-1.47					

SAR Lab G

	System	Dipole	T.5	,	N	leasured Resi	ults	Target	Delta	Est./Zoom	Plot
Date Tested	Туре	Serial #	Liqu		Area Scan	Zoom Scan	Normalize to 1 W	(Ref. Value)	±10 %	Ratio	No.
6/19/2014	D1750V2	1050	Head	1g	3.79	3.63	36.3	36.6	-0.82	4.22	
0/19/2014	D1730V2	1030	Heau	10g	2.02	1.93	19.3	19.4	-0.52		
6/19/2014	D1750V2	1050	Body	1g	3.81	3.71	37.1	37.2	-0.27	2.62	
0/19/2014	D1730V2	1030	Body	10g	1.98	1.98	19.8	20.0	-1.00		
6/23/2014	D1750V2	1050	Head	1g	3.77	3.49	34.9	36.6	-4.64	7.43	21,22
0/23/2014	D1730V2	1030	Heau	10g	2.01	1.87	18.7	19.4	-3.61		21,22
6/23/2014	D1750V2	1050	Body	1g	3.92	3.86	38.6	37.2	3.76	1.53	
0/23/2014	D1730V2	1030	Dody	10g	2.04	2.06	20.6	20.0	3.00		
6/26/2014	D1750V2	1050	Head	1g	3.72	3.60	36.0	36.6	-1.64	3.23	
0/20/2014	D1730V2	1030	Head	10g	1.99	1.92	19.2	19.4	-1.03		
6/26/2014	D1750V2	1050	Body	1g	3.88	3.82	38.2	37.2	2.69	1.55	
0/20/2014	D173072	1000	Dody	10g	2.03	2.04	20.4	20.0	2.00		
6/30/2014	D1750V2	1053	Head	1g	3.86	3.71	37.1	36.7	1.09	3.89	
0/30/2014	D173072	1000	ricad	10g	2.06	1.98	19.8	19.5	1.54		
6/30/2014	D1750V2	1053	Body	1g	3.87	3.83	38.3	37.7	1.59	1.03	
0/30/2014	D1730V2	1055	Dody	10g	2.05	2.05	20.5	20.3	0.99		
7/2/2014	D1900V2	5d163	Body	1g	3.96	3.93	39.3	40.1	-2.00	0.76	
1/2/2014	D1900 V2	30103	Dody	10g	1.98	2.03	20.3	21.2	-4.25		
7/7/2014	D1900V2	5d163	Body	1g	4.18	4.12	41.2	40.1	2.74	1.44	23,24
1/1/2014	D1300 VZ	50105	Dody	10g	2.09	2.13	21.3	21.2	0.47		20,24
7/7/2014	D1750V2	1053	Body	1g	4.02	3.95	39.5	37.7	4.77	1.74	25,26
1/1/2014	D173072	1000	Dody	10g	2.10	2.10	21.0	20.3	3.45		20,20
7/17/2014	D1900V2	5d163	Body	1g	4.07	3.99	39.9	40.1	-0.50	1.97	
7/17/2014	D1900 VZ	30103	Dody	10g	2.04	2.05	20.5	21.2	-3.30		

SAR Lab H

	System	Dipole	т.	,	N	leasured Resi	ults	Target	Dalta	Cat /7aam	Diet
Date Tested	Туре	Serial #	T.S Liqu		Area Scan	Zoom Scan	Normalize to 1 W	(Ref. Value)	Delta ±10 %	Est./Zoom Ratio	Plot No.
6/19/2014	D1900V2	5d140	Head	1g	4.00	3.98	39.8	40.1	-0.75	0.50	
0/19/2014	D1900V2	50140	пеац	10g	2.09	2.06	20.6	21.0	-1.90		
6/19/2014	D1900V2	5d140	Body	1g	4.05	4.01	40.1	40.2	-0.25	0.99	
0/19/2014	D1900V2	50140	Бойу	10g	2.05	2.08	20.8	21.3	-2.35		
6/23/2014	D1900V2	5d140	Head	1g	4.03	3.92	39.2	40.1	-2.24	2.73	
0/23/2014	D1900V2	Ju 140	Heau	10g	2.09	2.03	20.3	21.0	-3.33		
6/23/2014	D1900V2	5d140	Body	1g	3.82	3.78	37.8	40.2	-5.97	1.05	
0/23/2014	D1900V2	Ju 140	Body	10g	1.90	1.96	19.6	21.3	-7.98		
6/26/2014	D1900V2	5d140	Head	1g	3.86	3.75	37.5	40.1	-6.48	2.85	27,28
0/20/2014	D1900V2	30140	Head	10g	1.98	1.94	19.4	21.0	-7.62		27,20
6/26/2014	D1900V2	5d140	Body	1g	4.01	3.96	39.6	40.2	-1.49	1.25	
0/20/2014	D1900V2	30140	Dody	10g	1.99	2.05	20.5	21.3	-3.76		
6/30/2014	D1900V2	5d140	Head	1g	4.08	4.01	40.1	40.1	0.00	1.72	
0/30/2014	D1900V2	30140	Head	10g	2.09	2.09	20.9	21.0	-0.48		
6/30/2014	D1900V2	5d140	Body	1g	4.08	4.09	40.9	40.2	1.74	-0.25	
0/30/2014	D1900V2	30140	Dody	10g	2.02	2.13	21.3	21.3	0.00		
7/7/2014	D1900V2	5d140	Head	1g	4.23	4.09	40.9	40.1	2.00	3.31	
1/1/2014	D1900V2	30140	Head	10g	2.18	2.12	21.2	21.0	0.95		
7/7/2014	D1900V2	5d140	Body	1g	4.29	4.25	42.5	40.2	5.72	0.93	
1/1/2014	D1900V2	30140	Dody	10g	2.14	2.22	22.2	21.3	4.23		
7/17/2014	D1900V2	5d140	Head	1g	3.92	3.93	39.3	40.1	-2.00	-0.26	
1,11/2014	D1300 VZ	Ju 140	Head	10g	2.03	2.05	20.5	21.0	-2.38		
7/17/2014	D1900V2	5d140	Body	1g	4.05	4.02	40.2	40.2	0.00	0.74	
7,17,2014	D1300 VZ	Ju 140	Dody	10g	2.05	2.09	20.9	21.3	-1.88		

10.3. SAR Scan Procedure

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 IEEE Standard 1528 and IEC 62209 standards, 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°
	\leq 2 GHz: \leq 15 mm 2 – 3 GHz: \leq 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 o measurement plane orientation the measurement resolution r x or y dimension of the test dimeasurement point on the test	on, is smaller than the above, must be ≤ the corresponding levice with at least one

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

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.

Step 5: Z-Scan (FCC only)

The Z Scan measures points along a vertical straight line. The line runs along the Z-axis of a one-dimensional grid. In order to get a reasonable extrapolation the extrapolated distance should not be larger than the step size in Z-direction.

When zoom scan is required and the <u>reported</u> SAR from the area scan based *1-g SAR estimation* 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.

11. Measured and Reported (Scaled) SAR Results

SAR Test Reduction criteria are as follows:

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 941225 D01 SAR test for 3G devices:

Body SAR is also measured for HSPA when the maximum average output of each RF channel with HSPA active is at least ¼ dB higher than that measured without HSPA using 12.2 kbps RMC or the maximum SAR for 12.2 kbps RMC is above 75% of the SAR limit. Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 with power control algorithm 2.

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.

April 2013 TCB Workshop Updates:

Apply usual 802.11 test exclusion considerations, but include 802.11ac SAR for highest 802.11a configuration in each frequency band and each exposure condition.

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Measured SAR Results for Model A1586

11.1. GSM850

11.1.1. Head

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot			
Antenna	ivioue	(mm)	Test Fosition	ΟΠ #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.			
			Left Touch	190	836.6	33.2	33.2	0.436	0.436	0.287	0.287				
	Voice	0	Left Tilt	190	836.6	33.2	33.2	0.330	0.330	0.193	0.193				
	voice	0	Right Touch	190	836.6	33.2	33.2	0.485	0.485	0.298	0.298				
			Right Tilt	190	836.6	33.2	33.2	0.298	0.298	0.166	0.166				
UAT				128	824.2	32.2	32.2	0.671	0.671	0.446	0.446				
UAT			Left Touch	190	836.6	32.2	32.2	0.803	0.803	0.532	0.532	1			
	GPRS 2 slots	0		251	848.8	32.2	32.2	0.777	0.777	0.513	0.513				
	GFN3 2 51015	0	Left Tilt	190	836.6	32.2	32.2	0.514	0.514	0.301	0.301				
			Right Touch	190	836.6	32.2	32.2	0.759	0.759	0.465	0.465				
			Right Tilt	190	836.6	32.2	32.2	0.472	0.472	0.264	0.264				
			Left Touch	190	836.6	33.5	33.0	0.244	0.274	0.186	0.209				
	Voice	0	Left Tilt	190	836.6	33.5	33.0	0.096	0.108	0.074	0.083				
	VOICE	0	0	0	0	Right Touch	190	836.6	33.5	33.0	0.203	0.228	0.152	0.171	
LAT			Right Tilt	190	836.6	33.5	33.0	0.124	0.139	0.092	0.104				
LAI			Left Touch	190	836.6	32.5	31.8	0.331	0.389	0.254	0.298				
	CDPS 2 slots	0	Left Tilt	190	836.6	32.5	31.8	0.256	0.301	0.197	0.231				
GPRS 2 slots		Right Touch	190	836.6	32.5	31.8	0.282	0.331	0.217	0.255					
			Right Tilt	190	836.6	32.5	31.8	0.190	0.223	0.142	0.167				

11.1.2. Body-worn Accessory

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Antenna	IVIOGE	(mm)	163t i Osition	OΠ #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
UAT	Voice	5	Rear	190	836.6	33.2	33.2	0.243	0.243	0.150	0.150	
OAT	voice	5	Front	190	836.6	33.2	33.2	0.247	0.247	0.162	0.162	
LAT	Voice	5	Rear	190	836.6	33.5	33.0	0.333	0.374	0.217	0.243	2
LAI	VOICE]	Front	190	836.6	33.5	33.0	0.333	0.374	0.199	0.223	

11.1.3. Hotspot

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	iviode	(mm)	Test Fosition	5 #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
			Rear	190	836.6	32.2	32.2	0.379	0.379	0.234	0.234	
			Front	190	836.6	32.2	32.2	0.374	0.374	0.245	0.245	
UAT	GPRS 2 slots	5	Edge 1	190	836.6	32.2	32.2	0.198	0.198	0.089	0.089	
			Edge 2	190	836.6	32.2	32.2	0.337	0.337	0.220	0.220	
			Edge 4	190	836.6	32.2	32.2	0.213	0.213	0.136	0.136	
			Rear	190	836.6	32.5	31.8	0.445	0.523	0.290	0.341	
			Front	190	836.6	32.5	31.8	0.439	0.516	0.259	0.304	
LAT	GPRS 2 slots	5	Edge 2	190	836.6	32.5	31.8	0.342	0.402	0.224	0.263	
			Edge 3	190	836.6	32.5	31.8	0.250	0.294	0.118	0.139	
			Edge 4	190	836.6	32.5	31.8	0.467	0.549	0.309	0.363	3

11.2. GSM1900

11.2.1. Head

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	ivioue	(mm)	Test Fosition	G11 #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
			Left Touch	661	1880.0	29.9	29.9	0.291	0.291	0.157	0.157	
	Voice	0	Left Tilt	661	1880.0	29.9	29.9	0.259	0.259	0.129	0.129	
	Voice	U	Right Touch	661	1880.0	29.9	29.9	0.760	0.760	0.412	0.412	
			Right Tilt	661	1880.0	29.9	29.9	0.650	0.650	0.312	0.312	
			Left Touch	661	1880.0	27.1	27.1	0.269	0.269	0.141	0.141	
	GPRS 2 slots	0	Left Tilt	661	1880.0	27.1	27.1	0.261	0.261	0.129	0.129	
UAT	GPRS 2 51015	0	Right Touch	661	1880.0	27.1	27.1	0.725	0.725	0.399	0.399	
UAT			Right Tilt	661	1880.0	27.1	27.1	0.641	0.641	0.309	0.309	
			Left Touch	661	1880.0	27.4	27.4	0.308	0.308	0.157	0.157	
			Left Tilt	661	1880.0	27.4	27.4	0.342	0.342	0.178	0.178	
	EGPRS 2 slots	0		512	1850.2	27.4	27.4	0.840	0.840	0.434	0.434	
	EGFK3 2 81018	0	Right Touch	661	1880.0	27.4	27.4	0.885	0.885	0.455	0.455	
				810	1909.8	27.4	27.4	0.907	0.907	0.471	0.471	4
			Right Tilt	661	1880.0	27.4	27.4	0.723	0.723	0.371	0.371	
			Left Touch	661	1880.0	30.0	29.7	0.192	0.206	0.125	0.134	
	Voice	0	Left Tilt	661	1880.0	30.0	29.7	0.191	0.205	0.110	0.118	
	voice	0	Right Touch	661	1880.0	30.0	29.7	0.393	0.421	0.242	0.259	
LAT	LAT		Right Tilt	661	1880.0	30.0	29.7	0.190	0.204	0.116	0.124	
GPRS 2 slots		Left Touch	661	1880.0	29.5	29.4	0.361	0.369	0.237	0.243		
	0	Left Tilt	661	1880.0	29.5	29.4	0.375	0.384	0.219	0.224		
		Right Touch	661	1880.0	29.5	29.4	0.745	0.762	0.458	0.469		
		Right Tilt	661	1880.0	29.5	29.4	0.347	0.355	0.212	0.217		

11.2.2. Body-worn Accessory

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Antenna	iviode	(mm)	Test Fosition	GII#.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
UAT	Voice	5	Rear	661	1880.0	29.9	29.9	0.530	0.530	0.256	0.256	
UAT	voice	5	Front	661	1880.0	29.9	29.9	0.566	0.566	0.276	0.276	
				512	1850.2	28.8	28.7	0.798	0.817	0.390	0.399	
			Rear	661	1880.0	28.8	28.7	0.850	0.870	0.410	0.420	
LAT	Voice	5		810	1909.8	28.8	28.7	1.020	1.044	0.494	0.506	5
LAI	voice	5		512	1850.2	28.8	28.7	0.776	0.794	0.365	0.374	
			Front	661	1880.0	28.8	28.7	0.841	0.861	0.393	0.402	
				810	1909.8	28.8	28.7	0.987	1.010	0.461	0.472	

11.2.3. Hotspot

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	Wiode	(mm)	Test I estion	On #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
				512	1850.2	28.9	28.9	0.825	0.825	0.402	0.402	
			Rear	661	1880.0	28.9	28.9	0.883	0.883	0.431	0.431	
				810	1909.8	28.9	28.8	0.804	0.823	0.396	0.405	
				512	1850.2	28.9	28.9	0.808	0.808	0.392	0.392	
			Front	661	1880.0	28.9	28.9	0.824	0.824	0.397	0.397	
				810	1909.8	28.9	28.8	0.889	0.910	0.435	0.445	
UAT	GPRS 2 slots	5		512	1850.2	28.9	28.9	0.793	0.793	0.361	0.361	
			Edge 1	661	1880.0	28.9	28.9	0.848	0.848	0.389	0.389	
				810	1909.8	28.9	28.8	0.893	0.914	0.407	0.416	
				512	1850.2	28.9	28.9	0.918	0.918	0.515	0.515	
			Edge 2	661	1880.0	28.9	28.9	0.980	0.980	0.548	0.548	
				810	1909.8	28.9	28.8	0.897	0.918	0.504	0.516	
			Edge 4	661	1880.0	28.9	28.9	0.250	0.250	0.136	0.136	
				512	1850.2	25.8	25.6	0.890	0.932	0.436	0.457	
			Rear	661	1880.0	25.8	25.6	1.030	1.079	0.501	0.525	
				810	1909.8	25.8	25.8	1.000	1.000	0.497	0.497	
				512	1850.2	25.8	25.6	0.718	0.752	0.349	0.365	
			Front	661	1880.0	25.8	25.6	0.836	0.875	0.400	0.419	
	GPRS 2 slots	5		810	1909.8	25.8	25.8	1.000	1.000	0.477	0.477	
			Edge 2	661	1880.0	25.8	25.6	0.483	0.506	0.268	0.281	
				512	1850.2	25.8	25.6	0.639	0.669	0.299	0.313	
			Edge 3	661	1880.0	25.8	25.6	0.881	0.923	0.411	0.430	
				810	1909.8	25.8	25.8	0.878	0.878	0.395	0.395	
LAT			Edge 4	661	1880.0	25.8	25.6	0.175	0.183	0.095	0.100	
LAI				512	1850.2	26.8	26.8	0.915	0.915	0.435	0.435	
			Rear	661	1880.0	26.8	26.8	0.990	0.990	0.472	0.472	
				810	1909.8	26.8	26.8	1.160	1.160	0.569	0.569	6
				512	1850.2	26.8	26.8	0.724	0.724	0.343	0.343	
	EGPRS 2 slots 5		Front	661	1880.0	26.8	26.8	0.875	0.875	0.412	0.412	
		5		810	1909.8	26.8	26.8	1.120	1.120	0.531	0.531	
			Edge 2	661	1880.0	26.8	26.8	0.525	0.525	0.294	0.294	
				512	1850.2	26.8	26.8	0.915	0.915	0.434	0.434	
			Edge 3	661	1880.0	26.8	26.8	1.060	1.060	0.495	0.495	
				810	1909.8	26.8	26.8	1.090	1.090	0.509	0.509	
			Edge 4	661	1880.0	26.8	26.8	0.149	0.149	0.082	0.082	

11.3. W-CDMA Band V

11.3.1. Head

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	ivioue	(mm)	Test Fosition	GII#.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
				4132	826.4	24.7	24.0	0.685	0.805	0.449	0.528	
			Left Touch	4183	836.6	24.7	24.0	0.763	0.896	0.509	0.598	
				4233	846.6	24.7	24.0	0.766	0.900	0.496	0.583	7
UAT	Rel. 99 RMC	0	Left Tilt	4183	836.6	24.7	24.0	0.553	0.650	0.319	0.375	
UAI	Rei. 99 Rivic	0		4132	826.4	24.7	24.0	0.730	0.858	0.493	0.579	
			Right Touch	4183	836.6	24.7	24.0	0.739	0.868	0.461	0.542	
				4233	846.6	24.7	24.0	0.755	0.887	0.468	0.550	
			Right Tilt	4183	836.6	24.7	24.0	0.463	0.544	0.269	0.316	
			Left Touch	4183	836.6	25.0	25.0	0.408	0.408	0.309	0.309	
LAT Rel. 99 RMC	0	Left Tilt	4183	836.6	25.0	25.0	0.225	0.225	0.174	0.174		
LAI	Rei. 33 RIVIC	0	Right Touch	4183	836.6	25.0	25.0	0.336	0.336	0.261	0.261	
			Right Tilt	4183	836.6	25.0	25.0	0.218	0.218	0.170	0.170	

11.3.2. Body-worn Accessory & Hotspot

Body-worn Accessory & Hotspot

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	IVIOGO	(mm)	16311 0311011	OΠ #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
UAT	Rel. 99 RMC	5	Rear	4183	836.6	24.7	24.0	0.393	0.462	0.254	0.298	
OAT	IVel. 99 IVIVIC	3	Front	4183	836.6	24.7	24.0	0.432	0.508	0.278	0.327	
LAT	Rel. 99 RMC	5	Rear	4183	836.6	25.0	25.0	0.491	0.491	0.329	0.329	
	IVel. 99 IVIVIC	3	Front	4183	836.6	25.0	25.0	0.518	0.518	0.319	0.319	8

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Antenna	iviode	(mm)	rest r osition	OII#.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
			Edge 1	4183	836.6	24.7	24.0	0.210	0.247	0.095	0.112	
UAT	Rel. 99 RMC	5	Edge 2	4183	836.6	24.7	24.0	0.280	0.329	0.182	0.214	
			Edge 4	4183	836.6	24.7	24.0	0.499	0.586	0.326	0.383	
			Edge 2	4183	836.6	25.0	25.0	0.419	0.419	0.271	0.271	
			Edge 3	4183	836.6	25.0	25.0	0.317	0.317	0.152	0.152	
LAT	Rel. 99 RMC	5		4132	826.4	25.0	25.0	0.716	0.716	0.470	0.470	
			Edge 4	4183	836.6	25.0	25.0	0.859	0.859	0.564	0.564	9
				4233	846.6	25.0	25.0	0.821	0.821	0.533	0.533	

11.4. W-CDMA Band IV

11.4.1. Head

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Antenna	iviode	(mm)	Test Fosition	Gi #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
			Left Touch	1413	1732.6	19.9	19.8	0.277	0.283	0.148	0.151	
UAT	Rel. 99 RMC	0	Left Tilt	1413	1732.6	19.9	19.8	0.307	0.314	0.167	0.171	
OA1	IVel. 99 IVIVIC	U	Right Touch	1413	1732.6	19.9	19.8	0.737	0.754	0.385	0.394	
			Right Tilt	1413	1732.6	19.9	19.8	0.585	0.599	0.292	0.299	
			Left Touch	1413	1732.6	25.0	25.0	0.310	0.310	0.214	0.214	
LAT	Rel. 99 RMC	0	Left Tilt	1413	1732.6	25.0	25.0	0.277	0.277	0.178	0.178	
LAI	INGI. 33 KIVIC	0	Right Touch	1413	1732.6	25.0	25.0	0.755	0.755	0.485	0.485	10
			Right Tilt	1413	1732.6	25.0	25.0	0.297	0.297	0.191	0.191	

11.4.2. Body-worn Accessory & Hotspot

Body-worn Accessory & Hotspot

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	iviode	(mm)	Test Fosition	OII#.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
				1312	1712.4	23.1	23.1	0.872	0.872	0.433	0.433	
	UAT Rel. 99 RMC		Rear	1413	1732.6	23.1	23.1	0.838	0.838	0.414	0.414	
LIAT		5		1513	1752.6	23.1	23.0	0.815	0.834	0.403	0.412	
UAI		5		1312	1712.4	23.1	23.1	0.977	0.977	0.472	0.472	11
			Front	1413	1732.6	23.1	23.1	0.895	0.895	0.428	0.428	
				1513	1752.6	23.1	23.0	0.846	0.866	0.409	0.419	
			Rear	1413	1732.6	19.0	19.0	0.732	0.732	0.368	0.368	
LAT	Rel. 99 RMC	5		1312	1712.4	19.0	19.0	0.701	0.701	0.362	0.362	
LAI Re	INGI. 33 KIVIC]	Front	1413	1732.6	19.0	19.0	0.798	0.798	0.402	0.402	
				1513	1752.6	19.0	19.0	0.851	0.851	0.419	0.419	

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	ivioue	(mm)	Test Fosition	GII#.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
	UAT Rel. 99 RMC			1312	1712.4	23.1	23.1	0.999	0.999	0.463	0.463	12
			Edge 1	1413	1732.6	23.1	23.1	0.929	0.929	0.430	0.430	
UAT		5		1513	1752.6	23.1	23.0	0.858	0.878	0.395	0.404	
			Edge 2	1413	1732.6	23.1	23.1	0.015	0.015	0.009	0.009	
			Edge 4	1413	1732.6	23.1	23.1	0.606	0.606	0.335	0.335	
			Edge 2	1413	1732.6	19.0	19.0	0.421	0.421	0.234	0.234	
LAT	Rel. 99 RMC	5	Edge 3	1413	1732.6	19.0	19.0	0.744	0.744	0.365	0.365	
			Edge 4	1413	1732.6	19.0	19.0	0.041	0.041	0.023	0.023	

11.5. W-CDMA Band II

11.5.1. Head

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	iviode	(mm)	Test Fosition	Gi #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
			Left Touch	9400	1880.0	20.1	20.1	0.404	0.404	0.209	0.209	
			Left Tilt	9400	1880.0	20.1	20.1	0.353	0.353	0.181	0.181	
UAT	Rel. 99 RMC	0		9262	1852.4	20.1	19.9	0.848	0.888	0.436	0.457	
UAI	OAT Rei. 99 KIVIO	U	Right Touch	9400	1880.0	20.1	20.1	0.978	0.978	0.508	0.508	
			9538	1907.6	20.1	20.0	0.938	0.960	0.492	0.503		
			Right Tilt	9400	1880.0	20.1	20.1	0.767	0.767	0.374	0.374	
			Left Touch	9400	1880.0	24.25	24.25	0.549	0.549	0.361	0.361	
			Left Tilt	9400	1880.0	24.25	24.25	0.537	0.537	0.312	0.312	
LAT	Rel. 99 RMC	0		9262	1852.4	24.25	24.25	1.170	1.170	0.712	0.712	
LAI	Kei. 99 KiviC	U	Right Touch	9400	1880.0	24.25	24.25	1.180	1.180	0.713	0.713	13
				9538	1907.6	24.25	24.25	1.100	1.100	0.664	0.664	
			Right Tilt	9400	1880.0	24.25	24.25	0.440	0.440	0.282	0.282	
		Variability										
LAT	Rel. 99 RMC	0	Right Touch	9400	1880.0	24.25	24.25	1.140	1.140	0.716	0.716	

11.5.2. Body-worn Accessory & Hotspot

Body-worn Accessory & Hotspot

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	Mode	(mm)	Test Fosition	GII#.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
				9262	1852.4	23.3	23.3	0.794	0.794	0.386	0.386	
			Rear	9400	1880.0	23.3	23.3	0.924	0.924	0.445	0.445	
UAT Rel. 99 RMC	5		9538	1907.6	23.3	23.3	0.958	0.958	0.476	0.476		
	5		9262	1852.4	23.3	23.3	0.758	0.758	0.363	0.363		
			Front	9400	1880.0	23.3	23.3	0.876	0.876	0.422	0.422	
				9538	1907.6	23.3	23.3	0.959	0.959	0.462	0.462	
				9262	1852.4	18.5	18.5	0.957	0.957	0.467	0.467	
			Rear	9400	1880.0	18.5	18.5	0.988	0.988	0.478	0.478	
LAT	Rel. 99 RMC	5		9538	1907.6	18.5	18.5	1.020	1.020	0.491	0.491	14
LAT	Nei. 33 KIVIC	3		9262	1852.4	18.5	18.5	0.929	0.929	0.436	0.436	
			Front	9400	1880.0	18.5	18.5	0.967	0.967	0.453	0.453	
1				9538	1907.6	18.5	18.5	0.988	0.988	0.462	0.462	

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	IVIOGE	(mm)	16311 0311011	On #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
				9262	1852.4	23.3	23.3	0.817	0.817	0.364	0.364	
	LIAT Rel 99 RMC		Edge 1	9400	1880.0	23.3	23.3	0.906	0.906	0.397	0.397	
UAT	Rel. 99 RMC	5		9538	1907.6	23.3	23.3	0.955	0.955	0.409	0.409	15
			Edge 2	9400	1880.0	23.3	23.3	0.086	0.086	0.046	0.046	
			Edge 4	9400	1880.0	23.3	23.3	0.596	0.596	0.330	0.330	
			Edge 2	9400	1880.0	18.5	18.5	0.501	0.501	0.276	0.276	
				9262	1852.4	18.5	18.5	0.878	0.878	0.405	0.405	
LAT	Rel. 99 RMC	5	Edge 3	9400	1880.0	18.5	18.5	0.925	0.925	0.420	0.420	
				9538	1907.6	18.5	18.5	0.953	0.953	0.423	0.423	
			Edge 4	9400	1880.0	18.5	18.5	0.108	0.108	0.058	0.058	

11.6. CDMA BC0

11.6.1. Head

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	wode	(mm)	Test Fosition	GII#.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
			Left Touch	384	836.5	24.7	24.7	0.663	0.663	0.433	0.433	
	1xRTT	0	Left Tilt	384	836.5	24.7	24.7	0.483	0.483	0.277	0.277	
	(RC3 SO55)	0	Right Touch	384	836.5	24.7	24.7	0.510	0.510	0.324	0.324	
LIAT	UAT		Right Tilt	384	836.5	24.7	24.7	0.301	0.301	0.181	0.181	
UAI			Left Touch	384	836.5	24.7	24.5	0.649	0.680	0.430	0.450	16
1xEVDO	0	Left Tilt	384	836.5	24.7	24.5	0.326	0.341	0.203	0.213		
	(Rel. 0)	0	Right Touch	384	836.5	24.7	24.5	0.442	0.463	0.279	0.292	
			Right Tilt	384	836.5	24.7	24.5	0.244	0.255	0.151	0.158	
			Left Touch	384	836.5	25.0	25.0	0.374	0.374	0.289	0.289	
	1xRTT	0	Left Tilt	384	836.5	25.0	25.0	0.198	0.198	0.152	0.152	
	(RC3 SO55)	0	Right Touch	384	836.5	25.0	25.0	0.318	0.318	0.247	0.247	
LAT			Right Tilt	384	836.5	25.0	25.0	0.188	0.188	0.147	0.147	
LAI			Left Touch	384	836.5	25.0	24.8	0.349	0.365	0.275	0.288	
	1xEVDO	0	Left Tilt	384	836.5	25.0	24.8	0.192	0.201	0.148	0.155	
(Rel. 0)	U	Right Touch	384	836.5	25.0	24.8	0.304	0.318	0.243	0.254		
			Right Tilt	384	836.5	25.0	24.8	0.185	0.194	0.145	0.152	

Antenna	Mode	Dist.	Test Position	Ch #.	Freg. (MHz)	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Antenna	Mode	(mm)	Test Fosition	GII#.	rieq. (Miriz)	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Left Touch	384+425	836.52+837.75	21.4	21.1	0.333	0.357	0.217	0.233	
UAT		0	Left Tilt	384+425	836.52+837.75	21.4	21.1	0.240	0.257	0.137	0.147	
OAT	1xEVDO	U	Right Touch	384+425	836.52+837.75	21.4	21.1	0.282	0.302	0.174	0.186	
	(Rev. B)		Right Tilt	384+425	836.52+837.75	21.4	21.1	0.163	0.175	0.094	0.101	
	Two Carrier Mini.		Left Touch	384+425	836.52+837.75	21.7	21.7	0.125	0.125	0.096	0.096	
LAT	Mini. LAT	0	Left Tilt	384+425	836.52+837.75	21.7	21.7	0.067	0.067	0.051	0.051	
LAI		U	Right Touch	384+425	836.52+837.75	21.7	21.7	0.106	0.106	0.082	0.082	
			Right Tilt	384+425	836.52+837.75	21.7	21.7	0.060	0.060	0.046	0.046	
			Left Touch	384+425+466	836.52+837.75+838.98	21.4	21.1	0.327	0.350	0.214	0.229	
UAT		0	Left Tilt	384+425+466	836.52+837.75+838.98	21.4	21.1	0.237	0.254	0.135	0.145	
UAT	1xEVDO	U	Right Touch	384+425+466	836.52+837.75+838.98	21.4	21.1	0.280	0.300	0.178	0.191	
	(Rev. B)		Right Tilt	384+425+466	836.52+837.75+838.98	21.4	21.1	0.158	0.169	0.090	0.096	
	Three Carrier		Left Touch	384+425+466	836.52+837.75+838.98	21.7	21.6	0.124	0.127	0.095	0.097	
LAT	Mini. LAT	0	Left Tilt	384+425+466	836.52+837.75+838.98	21.7	21.6	0.061	0.062	0.047	0.048	
LAI		U	Right Touch	384+425+466	836.52+837.75+838.98	21.7	21.6	0.105	0.107	0.081	0.083	
			Right Tilt	384+425+466	836.52+837.75+838.98	21.7	21.6	0.060	0.061	0.046	0.047	

11.6.2. Body-worn Accessory & Hotspot

Body-worn Accessory & Hotspot

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	iviode	(mm)	Test Fosition	GII#.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
	1xRTT	5	Rear	384	836.5	24.7	24.7	0.389	0.389	0.239	0.239	
UAT (F	(RC3 SO32)	5	Front	384	836.5	24.7	24.7	0.394	0.394	0.238	0.238	
UAI	1xEVDO	5	Rear	384	836.5	24.7	24.5	0.354	0.371	0.233	0.244	
	(Rel. 0)	5	Front	384	836.5	24.7	24.5	0.346	0.362	0.209	0.219	
	1xRTT	5	Rear	384	836.5	25.0	24.9	0.517	0.529	0.341	0.349	
LAT	(RC3 SO32)	3	Front	384	836.5	25.0	24.9	0.521	0.533	0.403	0.412	17
	1xEVDO	5	Rear	384	836.5	25.0	24.8	0.472	0.494	0.317	0.332	
	(Rel. 0)	3	Front	384	836.5	25.0	24.8	0.499	0.523	0.386	0.404	

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Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	IVIOGO	(mm)	16311 0311011	On #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
	4DTT		Edge 1	384	836.5	24.7	24.7	0.219	0.219	0.099	0.099	
	1xRTT (RC3 SO32)	5	Edge 2	384	836.5	24.7	24.7	0.385	0.385	0.254	0.254	
UAT	(1100 0002)		Edge 4	384	836.5	24.7	24.7	0.236	0.236	0.154	0.154	
UAI	1xEVDO		Edge 1	384	836.5	24.7	24.5	0.164	0.172	0.076	0.080	
	(Rel. 0)	5	Edge 2	384	836.5	24.7	24.5	0.325	0.340	0.216	0.226	
	(Rei. U)		Edge 4	384	836.5	24.7	24.5	0.223	0.234	0.145	0.152	
			Edge 2	384	836.5	25.0	25.0	0.439	0.439	0.282	0.282	
	4DTT		Edge 3	384	836.5	25.0	25.0	0.318	0.318	0.151	0.151	
	1xRTT (RC3 SO32)	5		1013	824.7	25.0	25.0	0.715	0.715	0.460	0.460	
LAT	(1100 0002)		Edge 4	384	836.5	25.0	25.0	0.796	0.796	0.520	0.520	
LAI				777	848.3	25.0	24.7	0.877	0.940	0.571	0.612	18
	4.:E\/DO		Edge 2	384	836.5	25.0	24.8	0.408	0.427	0.265	0.277	
	1xEVDO (Rel. 0)	5	Edge 3	384	836.5	25.0	24.8	0.255	0.267	0.125	0.131	
	(1461. 0)		Edge 4	384	836.5	25.0	24.8	0.737	0.772	0.487	0.510	
	_		SAR Mea	surement	Variability							
LAT	1xRTT (RC3 SO32)	5	Edge 4	777	848.3	25.0	24.7	0.865	0.927	0.548	0.587	

Antenna	Mode	Dist.	Test Position	Ch #.	Freg. (MHz)	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	Wode	(mm)	rest Fosition	GII#.	Fieq. (Miriz)	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Rear	384+425	836.52+837.75	21.4	21.1	0.155	0.166	0.096	0.103	
			Front	384+425	836.52+837.75	21.4	21.1	0.160	0.171	0.098	0.105	
UAT		5	Edge 1	384+425	836.52+837.75	21.4	21.1	0.091	0.098	0.040	0.043	
	1xEVDO		Edge 2	384+425	836.52+837.75	21.4	21.1	0.164	0.176	0.108	0.116	
	(Rev. B)		Edge 4	384+425	836.52+837.75	21.4	21.1	0.134	0.144	0.086	0.092	
	Two Carrier		Rear	384+425	836.52+837.75	21.7	21.7	0.184	0.184	0.121	0.121	
	Mini.		Front	384+425	836.52+837.75	21.7	21.7	0.196	0.196	0.119	0.119	
LAT	LAT	5	Edge 2	384+425	836.52+837.75	21.7	21.7	0.147	0.147	0.094	0.094	
			Edge 3	384+425	836.52+837.75	21.7	21.7	0.128	0.128	0.059	0.059	
			Edge 4	384+425	836.52+837.75	21.7	21.7	0.232	0.232	0.152	0.152	
			Rear	384+425+466	836.52+837.75+838.98	21.4	21.1	0.154	0.165	0.100	0.107	
			Front	384+425+466	836.52+837.75+838.98	21.4	21.1	0.158	0.169	0.097	0.104	
UAT		5	Edge 1	384+425+466	836.52+837.75+838.98	21.4	21.1	0.087	0.093	0.039	0.042	
	1xEVDO		Edge 2	384+425+466	836.52+837.75+838.98	21.4	21.1	0.162	0.174	0.106	0.114	
	(Rev. B)		Edge 4	384+425+466	836.52+837.75+838.98	21.4	21.1	0.131	0.140	0.084	0.090	
	Three Carrier		Rear	384+425+466	836.52+837.75+838.98	21.7	21.6	0.172	0.176	0.114	0.117	
	Mini.		Front	384+425+466	836.52+837.75+838.98	21.7	21.6	0.161	0.165	0.100	0.102	
LAT	LAT	5	Edge 2	384+425+466	836.52+837.75+838.98	21.7	21.6	0.135	0.138	0.087	0.089	
			Edge 3	384+425+466	836.52+837.75+838.98	21.7	21.6	0.109	0.112	0.052	0.053	
			Edge 4	384+425+466	836.52+837.75+838.98	21.7	21.6	0.221	0.226	0.145	0.148	

11.7. CDMA BC1

11.7.1. Head

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	ivioue	(mm)	Test Fosition	GII#.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
			Left Touch	600	1880.0	20.1	20.0	0.302	0.309	0.156	0.160	
			Left Tilt	600	1880.0	20.1	20.0	0.287	0.294	0.143	0.146	
	1xRTT	0		25	1851.3	20.1	20.1	0.828	0.828	0.435	0.435	
	(RC3 SO55)	0	Right Touch	600	1880.0	20.1	20.0	0.947	0.969	0.518	0.530	
				1175	1908.8	20.1	20.1	0.980	0.980	0.539	0.539	
UAT			Right Tilt	600	1880.0	20.1	20.0	0.734	0.751	0.356	0.364	
OA1			Left Touch	600	1880.0	20.1	20.0	0.325	0.333	0.171	0.175	
			Left Tilt	600	1880.0	20.1	20.0	0.292	0.299	0.145	0.148	
	1xEVDO (Rel. 0)	0		25	1851.3	20.1	20.1	0.817	0.817	0.431	0.431	
		0	Right Touch	600	1880.0	20.1	20.0	0.850	0.870	0.452	0.463	
				1175	1908.8	20.1	20.0	0.893	0.914	0.477	0.488	
			Right Tilt	600	1880.0	20.1	20.0	0.732	0.749	0.338	0.346	
			Left Touch	600	1880.0	24.25	24.20	0.536	0.542	0.351	0.355	
			Left Tilt	600	1880.0	24.25	24.20	0.524	0.530	0.311	0.315	
	1xRTT	0		25	1851.3	24.25	24.10	0.868	0.899	0.542	0.561	
	(RC3 SO55)	0	Right Touch	600	1880.0	24.25	24.20	0.979	0.990	0.606	0.613	
				1175	1908.8	24.25	24.20	1.030	1.042	0.637	0.644	
LAT			Right Tilt	600	1880.0	24.25	24.20	0.363	0.367	0.235	0.238	
LAI			Left Touch	600	1880.0	24.25	24.25	0.553	0.553	0.359	0.359	
			Left Tilt	600	1880.0	24.25	24.25	0.516	0.516	0.305	0.305	
	1xEVDO	0		25	1851.3	24.25	24.25	0.957	0.957	0.605	0.605	
	(Rel. 0)		Right Touch	600	1880.0	24.25	24.25	1.120	1.120	0.706	0.706	
				1175	1908.8	24.25	24.25	1.180	1.180	0.737	0.737	19
			Right Tilt	600	1880.0	24.25	24.25	0.532	0.532	0.343	0.343	

11.7.2. Body-worn Accessory & Hotspot

Body-worn Accessory & Hotspot

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	iviode	(mm)	Test Fosition	G11 #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
				25	1851.3	23.3	23.2	0.813	0.832	0.395	0.404	
			Rear	600	1880.0	23.3	23.1	0.906	0.949	0.435	0.456	
	1xRTT	5		1175	1908.8	23.3	23.1	0.886	0.928	0.426	0.446	
	(RC3 SO32)	3		25	1851.3	23.3	23.2	0.757	0.775	0.363	0.371	
			Front	600	1880.0	23.3	23.1	0.841	0.881	0.403	0.422	
UAT				1175	1908.8	23.3	23.1	0.948	0.993	0.452	0.473	20
UAI	UAT			25	1851.3	23.3	23.2	0.778	0.796	0.389	0.398	
	1xEVDO (Rel. 0)		Rear	600	1880.0	23.3	23.2	0.862	0.882	0.426	0.436	
		5		1175	1908.8	23.3	23.2	0.829	0.848	0.414	0.424	
		5		25	1851.3	23.3	23.2	0.810	0.829	0.390	0.399	
			Front	600	1880.0	23.3	23.2	0.953	0.975	0.456	0.467	
				1175	1908.8	23.3	23.2	0.969	0.992	0.462	0.473	
				25	1851.3	18.5	18.5	0.941	0.941	0.456	0.456	
	1xRTT	5	Rear	600	1880.0	18.5	18.5	0.932	0.932	0.448	0.448	
	(RC3 SO32)	5		1175	1908.8	18.5	18.5	0.977	0.977	0.467	0.467	
LAT	, ,		Front	600	1880.0	18.5	18.5	0.712	0.712	0.337	0.337	
LAI	1xEVDO (Rel. 0)			25	1851.3	18.5	18.5	0.921	0.921	0.450	0.450	
		5	Rear	600	1880.0	18.5	18.5	0.949	0.949	0.464	0.464	
		3		1175	1908.8	18.5	18.5	0.984	0.984	0.481	0.481	
			Front	600	1880.0	18.5	18.5	0.650	0.650	0.314	0.314	

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	iviode	(mm)	Test Position	GII#.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
				25	1851.3	23.3	23.2	0.884	0.905	0.413	0.423	
	4vDTT		Edge 1	600	1880.0	23.3	23.1	0.898	0.940	0.398	0.417	
	1xRTT (RC3 SO32)	5		1175	1908.8	23.3	23.1	0.804	0.842	0.366	0.383	
	(1100 0002)		Edge 2	600	1880.0	23.3	23.1	0.089	0.093	0.048	0.050	
LIAT	AT		Edge 4	600	1880.0	23.3	23.1	0.625	0.654	0.345	0.361	
UAI	UAT			25	1851.3	23.3	23.2	0.860	0.880	0.383	0.392	
			Edge 1	600	1880.0	23.3	23.2	0.953	0.975	0.423	0.433	
	1xEVDO (Rel. 0)	5		1175	1908.8	23.3	23.2	0.889	0.910	0.395	0.404	
	(1101. 0)		Edge 2	600	1880.0	23.3	23.2	0.086	0.088	0.046	0.047	
			Edge 4	600	1880.0	23.3	23.2	0.605	0.619	0.333	0.341	
	4DTT		Edge 2	600	1880.0	18.5	18.5	0.467	0.467	0.257	0.257	
	1xRTT (RC3 SO32)	5	Edge 3	600	1880.0	18.5	18.5	0.771	0.771	0.358	0.358	
LAT	(RC3 SO32)		Edge 4	600	1880.0	18.5	18.5	0.108	0.108	0.058	0.058	
LAI	LAT 1xEVDO		Edge 2	600	1880.0	18.5	18.5	0.437	0.437	0.242	0.242	
	1xEVDO (Rel. 0)	5	Edge 3	600	1880.0	18.5	18.5	0.774	0.774	0.357	0.357	
	(1101. 0)		Edge 4	600	1880.0	18.5	18.5	0.110	0.110	0.060	0.060	

11.8. CDMA BC10

11.8.1. Head

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	Wiode	(mm)	rest r osition	OΠ #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
			Left Touch	580	820.5	24.7	24.6	0.617	0.631	0.410	0.420	21
	1xRTT	0	Left Tilt	580	820.5	24.7	24.6	0.507	0.519	0.284	0.291	
	(RC3 SO55)	U	Right Touch	580	820.5	24.7	24.6	0.557	0.570	0.359	0.367	
UAT			Right Tilt	580	820.5	24.7	24.6	0.387	0.396	0.226	0.231	
UAT			Left Touch	580	820.5	24.7	24.5	0.616	0.645	0.409	0.428	
	1xEVDO	0	Left Tilt	580	820.5	24.7	24.5	0.472	0.494	0.260	0.272	
	1xEVDO (Rel. 0)	U	Right Touch	580	820.5	24.7	24.5	0.556	0.582	0.354	0.371	
			Right Tilt	580	820.5	24.7	24.5	0.365	0.382	0.213	0.223	
			Left Touch	580	820.5	25.0	25.0	0.395	0.395	0.302	0.302	
	1xRTT	0	Left Tilt	580	820.5	25.0	25.0	0.182	0.182	0.142	0.142	
	(RC3 SO55)	0	Right Touch	580	820.5	25.0	25.0	0.330	0.330	0.244	0.244	
LAT	, , ,		Right Tilt	580	820.5	25.0	25.0	0.193	0.193	0.150	0.150	
LAI	LAT		Left Touch	580	820.5	25.0	25.0	0.392	0.392	0.299	0.299	
	1xEVDO (Rel. 0)	0	Left Tilt	580	820.5	25.0	25.0	0.175	0.175	0.136	0.136	
			Right Touch	580	820.5	25.0	25.0	0.311	0.311	0.230	0.230	
			Right Tilt	580	820.5	25.0	25.0	0.183	0.183	0.142	0.142	

11.8.2. Body-worn Accessory & Hotspot

Body-worn Accessory & Hotspot

Dody Wol	117 (0000001)	<u> </u>	pot									
Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antonna	Wiode	(mm)	rest r osition	On #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
	1xRTT	5	Rear	580	820.5	24.7	24.6	0.316	0.323	0.198	0.203	
UAT	(RC3 SO32)	5	Front	580	820.5	24.7	24.6	0.337	0.345	0.268	0.274	
UAI	1xEVDO	5	Rear	580	820.5	24.7	24.6	0.313	0.320	0.196	0.201	
	1xEVDO (Rel. 0)	3	Front	580	820.5	24.7	24.6	0.295	0.302	0.200	0.205	
	1xRTT	5	Rear	580	820.5	25.0	25.0	0.547	0.547	0.366	0.366	
LAT	(RC3 SO32)	3	Front	580	820.5	25.0	25.0	0.616	0.616	0.363	0.363	22
LAI	1xEVDO	5	Rear	580	820.5	25.0	25.0	0.545	0.545	0.361	0.361	
	(Rel. 0)		Front	580	820.5	25.0	25.0	0.585	0.585	0.347	0.347	

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	Wiode	(mm)	163t i Galdon	OΠ #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
	4DTT		Edge 1	580	820.5	24.7	24.6	0.136	0.139	0.063	0.064	
	1xRTT (RC3 SO32)	5	Edge 2	580	820.5	24.7	24.6	0.508	0.520	0.335	0.343	
UAT			Edge 4	580	820.5	24.7	24.6	0.170	0.174	0.111	0.114	
UAT	4		Edge 1	580	820.5	24.7	24.6	0.136	0.139	0.063	0.064	
	1xEVDO (Rel. 0)	5	Edge 2	580	820.5	24.7	24.6	0.495	0.507	0.328	0.336	
	_		Edge 4	580	820.5	24.7	24.6	0.136	0.139	0.091	0.093	
	4 DTT		Edge 2	580	820.5	25.0	25.0	0.308	0.308	0.204	0.204	
	1xRTT (PC3 SC32)	5	Edge 3	580	820.5	25.0	25.0	0.374	0.374	0.178	0.178	
LAT	(RC3 SO32)		Edge 4	580	820.5	25.0	25.0	0.657	0.657	0.437	0.437	23
LAI	LAT		Edge 2	580	820.5	25.0	25.0	0.306	0.306	0.200	0.200	
	1xEVDO (Rel. 0)	5	Edge 3	580	820.5	25.0	25.0	0.343	0.343	0.166	0.166	
	(1101. 0)		Edge 4	580	820.5	25.0	25.0	0.656	0.656	0.437	0.437	

11.9. CDMA BC15

11.9.1. Head

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	IVIOGO	(mm)	16311 0311011	OΠ #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
			Left Touch	450	1732.5	19.9	19.9	0.350	0.350	0.191	0.191	
			Left Tilt	450	1732.5	19.9	19.9	0.393	0.393	0.214	0.214	
	1xRTT	0		25	1711.3	19.9	19.9	0.884	0.884	0.460	0.460	
	(RC3 SO55)	U	Right Touch	450	1732.5	19.9	19.9	0.845	0.845	0.438	0.438	
				875	1753.8	19.9	19.9	0.809	0.809	0.420	0.420	
UAT			Right Tilt	450	1732.5	19.9	19.9	0.596	0.596	0.299	0.299	
UAT			Left Touch	450	1732.5	19.9	19.9	0.346	0.346	0.189	0.189	
	1xEVDO (Rel. 0)		Left Tilt	450	1732.5	19.9	19.9	0.383	0.383	0.207	0.207	
		0		25	1711.3	19.9	19.9	0.875	0.875	0.455	0.455	
		U	Right Touch	450	1732.5	19.9	19.9	0.842	0.842	0.437	0.437	
				875	1753.8	19.9	19.9	0.799	0.799	0.415	0.415	
			Right Tilt	450	1732.5	19.9	19.9	0.592	0.592	0.296	0.296	
			Left Touch	450	1732.5	25.0	25.0	0.319	0.319	0.220	0.220	
	1xRTT	0	Left Tilt	450	1732.5	25.0	25.0	0.321	0.321	0.204	0.204	
	(RC3 SO55)	U	Right Touch	450	1732.5	25.0	25.0	0.765	0.765	0.490	0.490	
			Right Tilt	450	1732.5	25.0	25.0	0.366	0.366	0.226	0.226	
LAT			Left Touch	450	1732.5	25.0	24.7	0.318	0.341	0.220	0.236	
LAI			Left Tilt	450	1732.5	25.0	24.7	0.320	0.343	0.204	0.219	
	1xEVDO	0		25	1711.3	25.0	24.9	0.618	0.632	0.400	0.409	
	(Rel. 0)	U	Right Touch	450	1732.5	25.0	24.7	0.748	0.801	0.481	0.515	
				875	1753.8	25.0	24.8	0.888	0.930	0.569	0.596	24
			Right Tilt	450	1732.5	25.0	24.7	0.347	0.372	0.220	0.236	

11.9.2. Body-worn Accessory & Hotspot

Body-worn Accessory & Hotspot

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	iviode	(mm)	Test Fosition	Gi #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
				25	1711.3	23.1	23.1	0.969	0.969	0.482	0.482	
			Rear	450	1732.5	23.1	23.1	0.860	0.860	0.428	0.428	
	1xRTT	5		875	1753.8	23.1	23.1	0.874	0.874	0.432	0.432	
	(RC3 SO32)	3		25	1711.3	23.1	23.1	0.997	0.997	0.479	0.479	25
			Front	450	1732.5	23.1	23.1	0.947	0.947	0.458	0.458	
UAT				875	1753.8	23.1	23.1	0.990	0.990	0.471	0.471	
OA1				25	1711.3	23.1	23.1	0.880	0.880	0.446	0.446	
	1xEVDO (Rel. 0)		Rear	450	1732.5	23.1	23.1	0.816	0.816	0.413	0.413	
		5		875	1753.8	23.1	23.1	0.862	0.862	0.424	0.424	
		3		25	1711.3	23.1	23.1	0.994	0.994	0.483	0.483	
			Front	450	1732.5	23.1	23.1	0.922	0.922	0.447	0.447	
				875	1753.8	23.1	23.1	0.873	0.873	0.417	0.417	
				25	1711.3	19.0	19.0	0.755	0.755	0.376	0.376	
			Rear	450	1732.5	19.0	19.0	0.843	0.843	0.419	0.419	
	1xRTT	5		875	1753.8	19.0	19.0	0.917	0.917	0.456	0.456	
LAT	LAT (RC3 SO32)	3		25	1711.3	19.0	19.0	0.816	0.816	0.438	0.438	
LAI			Front	450	1732.5	19.0	19.0	0.859	0.859	0.448	0.448	
				875	1753.8	19.0	19.0	0.921	0.921	0.466	0.466	
		5	Rear	450	1732.5	19.0	19.0	0.797	0.797	0.395	0.395	
	(Rel. 0)	3	Front	450	1732.5	19.0	19.0	0.760	0.760	0.402	0.402	

Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Amerina	Wiodo	(mm)	TOST T OSITION	011111	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
				25	1711.3	23.1	23.1	0.970	0.970	0.467	0.467	
	4DTT		Edge 1	450	1732.5	23.1	23.1	0.983	0.983	0.463	0.463	
	1xRTT (RC3 SO32)	5		875	1753.8	23.1	23.1	0.842	0.842	0.389	0.389	
	(1100 0002)		Edge 2	450	1732.5	23.1	23.1	0.025	0.025	0.015	0.015	
UAT			Edge 4	450	1732.5	23.1	23.1	0.564	0.564	0.314	0.314	
UAT				25	1711.3	23.1	23.1	0.945	0.945	0.438	0.438	
	1xEVDO		Edge 1	450	1732.5	23.1	23.1	0.876	0.876	0.406	0.406	
	1xEVDO (Rel. 0)	5		875	1753.8	23.1	23.1	0.811	0.811	0.387	0.387	
			Edge 2	450	1732.5	23.1	23.1	0.024	0.024	0.014	0.014	
			Edge 4	450	1732.5	23.1	23.1	0.556	0.556	0.310	0.310	
			Edge 2	450	1732.5	19.0	19.0	0.465	0.465	0.259	0.259	
	4DTT			25	1711.3	19.0	19.0	0.983	0.983	0.480	0.480	
	1xRTT (RC3 SO32)	5	Edge 3	450	1732.5	19.0	19.0	0.945	0.945	0.463	0.463	
	(1100 0002)			875	1753.8	19.0	19.0	1.020	1.020	0.491	0.491	26
LAT			Edge 4	450	1732.5	19.0	19.0	0.049	0.049	0.028	0.028	
LAT	1xEVDO (Rel. 0)		Edge 2	450	1732.5	19.0	19.0	0.434	0.434	0.242	0.242	
				25	1711.3	19.0	19.0	0.891	0.891	0.441	0.441	
		5	Edge 3	450	1732.5	19.0	19.0	0.880	0.880	0.435	0.435	
				875	1753.8	19.0	19.0	0.916	0.916	0.449	0.449	
			Edge 4	450	1732.5	19.0	19.0	0.047	0.047	0.027	0.027	

11.10. LTE Band 2 (20MHz Bandwidth)

11.10.1. Head

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Left Touch	18900	1880.0	1	49	20.1	20.1	0.369	0.369	0.192	0.192	
			Leit Touch	16900	1000.0	50	24	19.1	19.1	0.289	0.289	0.150	0.150	
			Left Tilt	18900	1880.0	1	49	20.1	20.1	0.357	0.357	0.174	0.174	
			Leit Tiit	16900	1000.0	50	24	19.1	19.1	0.286	0.286	0.139	0.139	
UAT	QPSK	0		18700	1860.0	1	49	20.1	20.0	0.940	0.962	0.490	0.501	
OAI	QI SIX	U	Right	18900	1880.0	1	49	20.1	20.1	0.969	0.969	0.504	0.504	
			Touch	10300	1000.0	50	24	19.1	19.1	0.792	0.792	0.411	0.411	
			Pight Tilt	19100	1900.0	1	49	20.1	20.0	0.930	0.952	0.482	0.493	
		F	Right Tilt	18900	1880.0	1	49	20.1	20.1	0.745	0.745	0.377	0.377	
		F	Kight Tilt	10300	1000.0	50	24	19.1	19.1	0.587	0.587	0.296	0.296	
			Left Touch	18900	1880.0	1	49	23.75	23.75	0.516	0.516	0.335	0.335	
			LCIT TOUCH	10300	1000.0	50	24	22.75	22.75	0.414	0.414	0.269	0.269	
			Left Tilt	18900	1880.0	1	49	23.75	23.75	0.485	0.485	0.280	0.280	
			LCIT TIIC	10300	1000.0	50	24	22.75	22.75	0.385	0.385	0.221	0.221	
LAT	QPSK	0		18700	1860.0	1	49	23.75	23.30	0.817	0.906	0.507	0.562	
LAI	QI SIX	U	Right	18900	1880.0	1	49	23.75	23.75	0.975	0.975	0.600	0.600	27
		Touch	10300	1000.0	50	24	22.75	22.75	0.784	0.784	0.483	0.483		
			19100	1900.0	1	49	23.75	23.60	0.884	0.915	0.543	0.562		
			Right Tilt	18900	1880.0	1	49	23.75	23.75	0.473	0.473	0.293	0.293	
			ragni fili	10300	1000.0	50	24	22.75	22.75	0.387	0.387	0.240	0.240	

11.10.2. Body-worn Accessory & Hotspot

Body-worn Accessory & Hotspot

Antonna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
				18700	1860.0	1	49	23.4	23.2	0.917	0.960	0.446	0.467	
			Rear	18900	1880.0	1	49	23.4	23.4	0.936	0.936	0.455	0.455	
			Real	10900	1660.0	50	24	22.4	22.4	0.763	0.763	0.371	0.371	
UAT	QPSK	5		19100	1900.0	1	49	23.4	23.3	0.951	0.973	0.463	0.474	
UAI	QFSK	5		18700	1860.0	1	49	23.4	23.2	0.829	0.868	0.404	0.423	
			Front	18900	1880.0	1	49	23.4	23.4	0.820	0.820	0.401	0.401	
		FIOR	10900	1660.0	50	24	22.4	22.4	0.663	0.663	0.324	0.324		
			19100	1900.0	1	49	23.4	23.2	0.851	0.891	0.417	0.437		
				18700	1860.0	1	49	18.5	18.4	1.010	1.034	0.483	0.494	
				10700	1000.0	50	24	17.5	17.0	0.781	0.876	0.372	0.417	
						1	49	18.5	18.5	1.050	1.050	0.505	0.505	
			Rear	18900	1880.0	50	24	17.5	17.0	0.797	0.894	0.383	0.430	
						100	0	17.5	17.0	0.682	0.765	0.327	0.367	
LAT	QPSK	5		19100	1900.0	1	49	18.5	18.5	1.140	1.140	0.540	0.540	28
		GPSK 5		19100	1900.0	50	24	17.5	17.0	0.685	0.769	0.328	0.368	
				18700	1860.0	1	49	18.5	18.4	0.819	0.838	0.382	0.391	
			Front	18900	1880.0	1	49	18.5	18.5	0.877	0.877	0.406	0.406	
		TIOIL	10300	1000.0	50	24	17.5	17.0	0.644	0.723	0.298	0.334		
				19100	1900.0	1	49	18.5	18.5	0.856	0.856	0.400	0.400	

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
				18700	1860.0	1	49	23.4	23.2	0.930	0.974	0.425	0.445	
			Edge 1	18900	1880.0	1	49	23.4	23.4	0.976	0.976	0.447	0.447	
			Luge	10900	1000.0	50	24	22.4	22.4	0.780	0.780	0.357	0.357	
UAT	QPSK	5		19100	1900.0	1	49	23.4	23.2	0.824	0.863	0.376	0.394	
OAT	QFSK	3	Edge 2	18900	1880.0	1	49	23.4	23.4	0.073	0.073	0.041	0.041	
		Luge 2	10900	1000.0	50	24	22.4	22.4	0.056	0.056	0.030	0.030		
		Edge 4	18900	1880.0	1	49	23.4	23.4	0.622	0.622	0.342	0.342		
		Luge 4	10900	1000.0	50	24	22.4	22.4	0.384	0.384	0.211	0.211		
			Edge 2	18900	1880.0	1	49	18.5	18.5	0.369	0.369	0.203	0.203	
			Luge 2	10900	1000.0	50	24	17.5	17.0	0.273	0.306	0.150	0.168	
ΙΔΤ	LAT QPSK 5	5	Edge 3	18900	1880.0	1	49	18.5	18.5	0.659	0.659	0.300	0.300	
LAI		3	Luge 3	10300	1000.0	50	24	17.5	17.0	0.497	0.558	0.225	0.252	
		Edge 4	18900	1880.0	1	49	18.5	18.5	0.102	0.102	0.057	0.057		
			Luge 4	10300	1000.0	50	24	17.5	17.0	0.076	0.085	0.042	0.047	

11.11. LTE Band 4 (20MHz Bandwidth)

11.11.1. Head

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Left Touch	20175	1732.5	1	49	19.9	19.9	0.325	0.325	0.179	0.179	
			Len Touch	20175	1732.5	50	24	18.9	18.9	0.251	0.251	0.136	0.136	
			Left Tilt	20175	1732.5	1	49	19.9	19.9	0.375	0.375	0.208	0.208	
			Len Till	20173	1732.5	50	24	18.9	18.9	0.292	0.292	0.162	0.162	
UAT	QPSK	0		20050	1720.0	1	49	19.9	19.8	0.975	0.998	0.510	0.522	29
J OAT	QI OIX		Right	20175	1732.5	1	49	19.9	19.9	0.968	0.968	0.504	0.504	
			Touch	20175	1732.5	50	24	18.9	18.9	0.747	0.747	0.388	0.388	
				20300	1745.0	1	49	19.9	19.9	0.940	0.940	0.489	0.489	
			Right Tilt	20175	1732.5	1	49	19.9	19.9	0.684	0.684	0.349	0.349	
			Kight Tilt	20173	1732.3	50	24	18.9	18.9	0.534	0.534	0.270	0.270	
			Left Touch	20175	1732.5	1	49	24.0	24.0	0.252	0.252	0.172	0.172	
			Lon Todon	20170	1702.0	50	24	23.0	23.0	0.189	0.189	0.130	0.130	
			Left Tilt	20175	1732.5	1	49	24.0	24.0	0.220	0.220	0.140	0.140	
LAT	QPSK	0	LOIT THE	20170	1702.0	50	24	23.0	23.0	0.182	0.182	0.115	0.115	
LAI	Q, OK	J	Right	20175	1732.5	1	49	24.0	24.0	0.645	0.645	0.410	0.410	
			Touch	20173	1102.0	50	24	23.0	23.0	0.499	0.499	0.318	0.318	
			Right Tilt	20175	1732.5	1	49	24.0	24.0	0.194	0.194	0.125	0.125	
			Tagait Till	20173	1732.3	50	24	23.0	23.0	0.150	0.150	0.096	0.096	

11.11.2. Body-worn Accessory & Hotspot

Body-worn Accessory & Hotspot

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
				20050	1720.0	1	49	23.1	23.1	0.980	0.980	0.492	0.492	
				20000	1720.0	50	24	22.1	22.1	0.784	0.784	0.392	0.392	
						1	49	23.1	23.1	0.995	0.995	0.494	0.494	
			Rear	20175	1732.5	50	24	22.1	22.1	0.829	0.829	0.410	0.410	
						100	0	22.1	22.1	0.757	0.757	0.379	0.379	
UAT	QPSK	5		20300	1745.0	1	49	23.1	23.0	0.923	0.944	0.461	0.472	
				20000	17 10.0	50	24	22.1	22.0	0.747	0.764	0.372	0.381	
				20050	1720.0	1	49	23.1	23.1	0.963	0.963	0.473	0.473	
			Front	20175	1732.5	1	49	23.1	23.1	0.984	0.984	0.476	0.476	
			TTOTIC	20173	1702.0	50	24	22.1	22.1	0.794	0.794	0.383	0.383	
				20300	1745.0	1	49	23.1	23.0	0.889	0.910	0.435	0.445	
				20050	1720.0	1	49	19.0	19.0	0.960	0.960	0.469	0.469	
			Rear	20175	1732.5	1	49	19.0	19.0	1.020	1.020	0.497	0.497	
			rttai	20173	1702.0	50	24	18.0	18.0	0.791	0.791	0.383	0.383	
LAT	QPSK	5		20300	1745.0	1	49	19.0	19.0	1.100	1.100	0.532	0.532	30
LAI	QI SIX	3		20050	1720.0	1	49	19.0	19.0	0.663	0.663	0.359	0.359	
			Front	20175	1732.5	1	49	19.0	19.0	0.829	0.829	0.435	0.435	
			TIOIL	20173	1752.5	50	24	18.0	18.0	0.638	0.638	0.334	0.334	
				20300	1745.0	1	49	19.0	19.0	0.749	0.749	0.393	0.393	
						SAR M	leasureme	ent Variability	у					
LAT	QPSK	5	Rear	20300	1745	1	49	19.0	19.0	1.040	1.040	0.505	0.505	

Antonno	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Antenna	iviode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
				20050	1720.0	1	49	23.1	23.1	0.979	0.979	0.472	0.472	
			Edge 1	20175	1732.5	1	49	23.1	23.1	0.930	0.930	0.448	0.448	
			Luge	20173	1732.3	50	24	22.1	22.1	0.737	0.737	0.353	0.353	
UAT	QPSK	5		20300	1745.0	1	49	23.1	23.0	0.879	0.899	0.421	0.431	
UAI	QFSK	3	Edge 2	20175	1732.5	1	49	23.1	23.1	0.033	0.033	0.020	0.020	
			Luge 2	20173	1732.3	50	24	22.1	22.1	0.027	0.027	0.016	0.016	
		Edge 4	20175	1732.5	1	49	23.1	23.1	0.667	0.667	0.372	0.372		
			Euge 4	20175	1732.5	50	24	22.1	22.1	0.540	0.540	0.301	0.301	
			Edge 2	20175	1732.5	1	49	19.0	19.0	0.423	0.423	0.236	0.236	
			Luge 2	20173	1732.3	50	24	18.0	17.9	0.324	0.332	0.180	0.184	
				20050	1720.0	1	49	19.0	19.0	0.850	0.850	0.418	0.418	
LAT	OBSK	5	Edge 3	20175	1732.5	1	49	19.0	19.0	0.855	0.855	0.420	0.420	
LAI	AT QPSK 5	Luge 3	20173	1732.3	50	24	18.0	17.9	0.669	0.685	0.327	0.335		
			20300	1745.0	1	49	19.0	19.0	0.895	0.895	0.437	0.437		
			Edge 4	20175	1732.5	1	49	19.0	19.0	0.045	0.045	0.026	0.026	
			Luge 4	20173	1732.3	50	24	18.0	17.9	0.035	0.036	0.020	0.020	

11.12. LTE Band 5 (10MHz Bandwidth)

11.12.1. Head

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Left Touch	20525	836.6	1	24	23.7	23.7	0.592	0.592	0.390	0.390	
			Lent Touch	20323	030.0	25	12	22.7	22.7	0.468	0.468	0.310	0.310	
			Left Tilt	20525	836.6	1	24	23.7	23.7	0.485	0.485	0.280	0.280	
UAT	QPSK	0	Len Till	20323	030.0	25	12	22.7	22.7	0.378	0.378	0.218	0.218	
OAI	QI SIX	U	Right	20525	836.6	1	24	23.7	23.7	0.612	0.612	0.380	0.380	31
			Touch	20323	030.0	25	12	22.7	22.7	0.476	0.476	0.295	0.295	
			Right Tilt	20525	836.6	1	24	23.7	23.7	0.326	0.326	0.185	0.185	
			Kigiit Tiit	20323	030.0	25	12	22.7	22.7	0.254	0.254	0.144	0.144	
			Left Touch	20525	836.6	1	24	24.0	24.0	0.288	0.288	0.220	0.220	
			Lent Touch	20323	030.0	25	12	23.0	23.0	0.219	0.219	0.168	0.168	
			Left Tilt	20525	836.6	1	24	24.0	24.0	0.150	0.150	0.115	0.115	
LAT	QPSK	0	Len Till	20323	030.0	25	12	23.0	23.0	0.115	0.115	0.088	0.088	
	Qi Oit		Right	20525	836.6	1	24	24.0	24.0	0.230	0.230	0.177	0.177	
		Touch	20020	000.0	25	12	23.0	23.0	0.175	0.175	0.134	0.134		
			Right Tilt	20525	836.6	1	24	24.0	24.0	0.163	0.163	0.123	0.123	
			ragin ill	20020	330.0	25	12	23.0	23.0	0.125	0.125	0.095	0.095	

11.12.2. Body-worn Accessory & Hotspot

Body-worn Accessory & Hotspot

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Antenna	iviode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Rear	20525	836.6	1	24	23.7	23.7	0.243	0.243	0.152	0.152	
UAT	QPSK	5	Real	20020	030.0	25	12	22.7	22.7	0.210	0.210	0.130	0.130	
OA1	QI SIX	,	Front	20525	836.6	1	24	23.7	23.7	0.236	0.236	0.140	0.140	
			TIOIT	20020	030.0	25	12	22.7	22.7	0.224	0.224	0.132	0.132	
			Rear	20525	836.6	1	24	24.0	24.0	0.372	0.372	0.244	0.244	
LAT	QPSK	5	Real	20323	030.0	25	12	23.0	23.0	0.289	0.289	0.189	0.189	
LAI	QI SK	3	Front	20525	836.6	1	24	24.0	24.0	0.437	0.437	0.250	0.250	32
			FIOIIL	20323	030.0	25	12	23.0	23.0	0.339	0.339	0.193	0.193	

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	iviode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Edge 1	20525	836.6	1	24	23.7	23.7	0.134	0.134	0.060	0.060	
			Luge	20323	630.0	25	12	22.7	22.7	0.115	0.115	0.051	0.051	
UAT	QPSK	5	Edge 2	20525	836.6	1	24	23.7	23.7	0.342	0.342	0.223	0.223	
OAT	QI OIX	3	Luge 2	20020	030.0	25	12	22.7	22.7	0.320	0.320	0.209	0.209	
			Edge 4	20525	836.6	1	24	23.7	23.7	0.219	0.219	0.142	0.142	
			Luge 4	20323	630.0	25	12	22.7	22.7	0.172	0.172	0.111	0.111	
			Edge 2	20525	836.6	1	24	24.0	24.0	0.249	0.249	0.162	0.162	
			Luge 2	20020	030.0	25	12	23.0	23.0	0.196	0.196	0.126	0.126	
LAT	QPSK	5	Edge 3	20525	836.6	1	24	24.0	24.0	0.258	0.258	0.122	0.122	
LAI	QFSK	3	Luge 3	20323	030.0	25	12	23.0	23.0	0.211	0.211	0.100	0.100	
			Edge 4	20525	836.6	1	24	24.0	24.0	0.638	0.638	0.415	0.415	33
			Luge 4	20323	030.0	25	12	23.0	23.0	0.493	0.493	0.320	0.320	

11.13. LTE Band 13 (10MHz Bandwidth)

11.13.1. Head

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Left Touch	23230	782.0	1	24	23.7	23.7	0.543	0.543	0.356	0.356	34
			Lent Touch	23230	702.0	25	12	22.7	22.7	0.443	0.443	0.291	0.291	
			Left Tilt	23230	782.0	1	24	23.7	23.7	0.407	0.407	0.253	0.253	
UAT	QPSK	0	Leit Tiit	23230	702.0	25	12	22.7	22.7	0.342	0.342	0.210	0.210	
OAI	QI SIX	U	Right	23230	782.0	1	24	23.7	23.7	0.482	0.482	0.295	0.295	
			Touch	23230	702.0	25	12	22.7	22.7	0.391	0.391	0.237	0.237	
			Right Tilt	23230	782.0	1	24	23.7	23.7	0.378	0.378	0.221	0.221	
			Kigiit Tiit	23230	702.0	25	12	22.7	22.7	0.308	0.308	0.180	0.180	
			Left Touch	23230	782.0	1	24	24.0	24.0	0.360	0.360	0.277	0.277	
			Lent Touch	23230	702.0	25	12	23.0	23.0	0.291	0.291	0.224	0.224	
			Left Tilt	23230	782.0	1	24	24.0	24.0	0.211	0.211	0.164	0.164	
LAT	QPSK	0	Len Till	23230	702.0	25	12	23.0	23.0	0.169	0.169	0.131	0.131	
	Q, OK		Right	23230	782.0	1	24	24.0	24.0	0.291	0.291	0.221	0.221	
		Touch	20200	702.0	25	12	23.0	23.0	0.238	0.238	0.180	0.180		
			Right Tilt	23230	782.0	1	24	24.0	24.0	0.200	0.200	0.156	0.156	
			ragin ill	20200	702.0	25	12	23.0	23.0	0.156	0.156	0.122	0.122	

11.13.2. Body-worn Accessory & Hotspot

Body-worn Accessory & Hotspot

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Rear	23230	782.0	1	24	23.7	23.7	0.251	0.251	0.148	0.148	
UAT	QPSK	5	Real	23230	702.0	25	12	22.7	22.7	0.203	0.203	0.120	0.120	
OAI	QI SIX	3	Front	23230	782.0	1	24	23.7	23.7	0.252	0.252	0.150	0.150	
			TIOIT	23230	702.0	25	12	22.7	22.7	0.202	0.202	0.120	0.120	
			Rear	23230	782.0	1	24	24.0	24.0	0.525	0.525	0.380	0.380	
LAT	QPSK	5	Real	23230	702.0	25	12	23.0	23.0	0.431	0.431	0.311	0.311	
LAI	QFSK	5	Front	23230	782.0	1	24	24.0	24.0	0.528	0.528	0.338	0.338	35
			FIOIIL	23230	702.0	25	12	23.0	23.0	0.430	0.430	0.275	0.275	

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Edge 1	23230	782.0	1	24	23.7	23.7	0.170	0.170	0.078	0.078	
			Luge	23230	702.0	25	12	22.7	22.7	0.132	0.132	0.061	0.061	
UAT	QPSK	5	Edge 2	23230	782.0	1	24	23.7	23.7	0.384	0.384	0.252	0.252	
OAT	QI OIX	3	Luge 2	23230	702.0	25	12	22.7	22.7	0.312	0.312	0.205	0.205	
			Edge 4	23230	782.0	1	24	23.7	23.7	0.253	0.253	0.166	0.166	
			Luge 4	23230	702.0	25	12	22.7	22.7	0.206	0.206	0.135	0.135	
			Edge 2	23230	782.0	1	24	24.0	24.0	0.388	0.388	0.254	0.254	
			Lugo Z	20200	702.0	25	12	23.0	23.0	0.384	0.384	0.250	0.250	
LAT	QPSK	5	Edge 3	23230	782.0	1	24	24.0	24.0	0.386	0.386	0.181	0.181	
LAI	QI OIX	3	Luge 3	23230	702.0	25	12	23.0	23.0	0.300	0.300	0.141	0.141	
			Edge 4	23230	782.0	1	24	24.0	24.0	0.696	0.696	0.459	0.459	36
			Luge 4	20200	702.0	25	12	23.0	23.0	0.571	0.571	0.376	0.376	

11.14. LTE Band 17 (10MHz Bandwidth)

11.14.1. Head

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Left Touch	23790	710.0	1	24	23.7	23.7	0.394	0.394	0.296	0.296	
			Left Touch	237 90	710.0	25	12	22.7	22.7	0.348	0.348	0.260	0.260	
			Left Tilt	23790	710.0	1	24	23.7	23.7	0.251	0.251	0.169	0.169	
UAT	QPSK	0	Len Till	237 90	710.0	25	12	22.7	22.7	0.218	0.218	0.146	0.146	
OAI	QI SIX	U	Right	23790	710.0	1	24	23.7	23.7	0.471	0.471	0.293	0.293	
			Touch	237 90	710.0	25	12	22.7	22.7	0.377	0.377	0.235	0.235	
			Right Tilt	23790	710.0	1	24	23.7	23.7	0.473	0.473	0.273	0.273	37
			Kight Tilt	237 90	710.0	25	12	22.7	22.7	0.381	0.381	0.219	0.219	
			Left Touch	23790	710.0	1	24	24.0	24.0	0.198	0.198	0.154	0.154	
			Left Touch	237 90	710.0	25	12	23.0	23.0	0.162	0.162	0.126	0.126	
			Left Tilt	23790	710.0	1	24	24.0	24.0	0.109	0.109	0.084	0.084	
LAT	QPSK	0	Len Till	237 90	710.0	25	12	23.0	23.0	0.086	0.086	0.067	0.067	
	Qi Oit		Right	23790	710.0	1	24	24.0	24.0	0.175	0.175	0.134	0.134	
		Touch	257 90	7 10.0	25	12	23.0	23.0	0.140	0.140	0.107	0.107		
			Right Tilt	23790	710.0	1	24	24.0	24.0	0.128	0.128	0.088	0.088	
			rtigiit Tiit	257 90	7 10.0	25	12	23.0	23.0	0.130	0.130	0.098	0.098	

11.14.2. Body-worn Accessory & Hotspot

Body-worn Accessory & Hotspot

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Rear	23790	710.0	1	24	23.7	23.7	0.205	0.205	0.147	0.147	
UAT	QPSK	5	Neai	237 90	710.0	25	12	22.7	22.7	0.162	0.162	0.116	0.116	
OAI	QI SIX	3	Front	23790	710.0	1	24	23.7	23.7	0.254	0.254	0.202	0.202	
			TIOII	237 90	710.0	25	12	22.7	22.7	0.200	0.200	0.159	0.159	
			Rear	23790	710.0	1	24	24.0	24.0	0.347	0.347	0.241	0.241	
LAT	QPSK	5	Real	237 90	710.0	25	12	23.0	23.0	0.275	0.275	0.190	0.190	
LAI	QI SK	3	Front	23790	710.0	1	24	24.0	24.0	0.368	0.368	0.216	0.216	38
			FIOR	23790	7 10.0	25	12	23.0	23.0	0.304	0.304	0.178	0.178	

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Edge 1	23790	710.0	1	24	23.7	23.7	0.075	0.075	0.037	0.037	
			Luge	23790	710.0	25	12	22.7	22.7	0.058	0.058	0.029	0.029	
UAT	QPSK	5	Edge 2	23790	710.0	1	24	23.7	23.7	0.272	0.272	0.182	0.182	
OAT	QI OIX	3	Luge 2	237 90	710.0	25	12	22.7	22.7	0.217	0.217	0.145	0.145	
			Edge 4	23790	710.0	1	24	23.7	23.7	0.234	0.234	0.156	0.156	
			Luge 4	23730	710.0	25	12	22.7	22.7	0.183	0.183	0.122	0.122	
			Edge 2	23790	710.0	1	24	24.0	24.0	0.249	0.249	0.167	0.167	
			Lugo Z	20730	7 10.0	25	12	23.0	23.0	0.207	0.207	0.139	0.139	
LAT	QPSK	5	Edge 3	23790	710.0	1	24	24.0	24.0	0.257	0.257	0.126	0.126	
LAI	QI OIX	3	Luge 3	237 90	710.0	25	12	23.0	23.0	0.170	0.170	0.085	0.085	
			Edge 4	23790	710.0	1	24	24.0	24.0	0.516	0.516	0.347	0.347	39
			Luge 4	25790	7 10.0	25	12	23.0	23.0	0.404	0.404	0.272	0.272	

11.15. LTE Band 25 (20MHz Bandwidth)

11.15.1. Head

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Left Touch	26365	1882.5	1	49	20.1	20.1	0.392	0.392	0.203	0.203	
			Len Touch	20303	1002.5	50	24	19.1	19.1	0.312	0.312	0.160	0.160	
			Left Tilt	26365	1882.5	1	49	20.1	20.1	0.367	0.367	0.190	0.190	
			Len Till	20303	1002.5	50	24	19.1	19.1	0.294	0.294	0.151	0.151	
UAT	QPSK	0		26140	1860.0	1	49	20.1	19.9	0.909	0.952	0.471	0.493	
OAI	QI SIX	U	Right	26365	1882.5	1	49	20.1	20.1	0.887	0.887	0.462	0.462	
			Touch	20303	1002.5	50	24	19.1	19.1	0.716	0.716	0.372	0.372	
				26590	1905.0	1	49	20.1	19.9	0.926	0.970	0.491	0.514	40
			Right Tilt	26365	1882.5	1	49	20.1	20.1	0.747	0.747	0.378	0.378	
			Right The	20303	1002.5	50	24	19.1	19.1	0.608	0.608	0.308	0.308	
		Left Touch	26365	1882.5	1	49	23.5	23.5	0.627	0.627	0.408	0.408		
		Lon Todon	20000	1002.5	50	24	22.5	22.5	0.509	0.509	0.330	0.330		
			Left Tilt	26365	1882.5	1	49	23.5	23.5	0.509	0.509	0.308	0.308	
			Len Till	20303	1002.5	50	24	22.5	22.5	0.409	0.409	0.247	0.247	
LAT	OPSK	0		26140	1860.0	1	49	23.5	23.5	0.926	0.926	0.586	0.586	
LAI	LAT QPSK	U	Right	26365	1882.5	1	49	23.5	23.5	0.967	0.967	0.605	0.605	
			Touch	20303	1002.5	50	24	22.5	22.5	0.777	0.777	0.485	0.485	
				26590	1905.0	1	49	23.5	23.4	0.910	0.931	0.565	0.578	
			Right Tilt	26365	1882.5	1	49	23.5	23.5	0.487	0.487	0.294	0.294	
			Nigill Till	20303	1002.5	50	24	22.5	22.5	0.420	0.420	0.251	0.251	

11.15.2. Body-worn Accessory & Hotspot

Body-worn Accessory & Hotspot

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	wode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
				26140	1860.0	1	49	23.4	23.2	0.809	0.847	0.399	0.418	
			Rear	26365	1882.5	1	49	23.4	23.4	0.912	0.912	0.443	0.443	
			Real	20303	1002.5	50	24	22.4	22.4	0.750	0.750	0.368	0.368	
UAT	QPSK	5		26590	1905.0	1	49	23.4	23.4	0.973	0.973	0.472	0.472	
UAI	QI OIX	3		26140	1860.0	1	49	23.4	23.2	0.927	0.971	0.444	0.465	
			Front	26365	1882.5	1	49	23.4	23.4	0.924	0.924	0.445	0.445	
			TIOIL	20303	1002.5	50	24	22.4	22.4	0.778	0.778	0.375	0.375	
			26590	1905.0	1	49	23.4	23.4	0.958	0.958	0.462	0.462		
			26140	1860.0	1	49	18.5	18.5	1.000	1.000	0.467	0.467		
				20140	1000.0	50	24	17.5	17.5	0.749	0.749	0.348	0.348	
						1	49	18.5	18.5	1.080	1.080	0.511	0.511	41
			Rear	26365	1882.5	50	24	17.5	17.5	0.806	0.806	0.381	0.381	
						100	0	17.5	17.5	0.806	0.806	0.382	0.382	
LAT	QPSK	5		26590	1905.0	1	49	18.5	18.5	1.040	1.040	0.481	0.481	
				20000	1300.0	50	24	17.5	17.5	0.794	0.794	0.366	0.366	
				26140	1860.0	1	49	18.5	18.5	0.795	0.795	0.376	0.376	
		Front	26365	1882.5	1	49	18.5	18.5	0.874	0.874	0.406	0.406		
		TIOIT	20000	1002.0	50	24	17.5	17.5	0.588	0.588	0.274	0.274		
			26590	1905.0	1	49	18.5	18.5	0.766	0.766	0.361	0.361		

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
				26140	1860.0	1	49	23.4	23.2	0.909	0.952	0.416	0.436	
			Edge 1	26365	1882.5	1	49	23.4	23.4	0.913	0.913	0.420	0.420	
			Luge	20303	1002.5	50	24	22.4	22.4	0.797	0.797	0.362	0.362	
UAT	QPSK	5		26590	1905.0	1	49	23.4	23.4	0.933	0.933	0.418	0.418	
UAI	QFSK	3	Edge 2	26365	1882.5	1	49	23.4	23.4	0.061	0.061	0.033	0.033	
			Luge 2	20303	1002.5	50	24	22.4	22.4	0.053	0.053	0.029	0.029	
			Edge 4	26365	1882.5	1	49	23.4	23.4	0.482	0.482	0.267	0.267	
			Luge 4	20303	1002.5	50	24	22.4	22.4	0.414	0.414	0.231	0.231	
			Edge 2	26365	1882.5	1	49	18.5	18.5	0.432	0.432	0.236	0.236	
			Luge 2	20303	1002.5	50	24	17.5	17.5	0.318	0.318	0.174	0.174	
LAT	LAT QPSK 5	5	Edge 3	26365	1882.5	1	49	18.5	18.5	0.757	0.757	0.342	0.342	
LAI			Luge 3	20000	1002.0	50	24	17.5	17.5	0.565	0.565	0.254	0.254	
			Edge 4	26365	1882.5	1	49	18.5	18.5	0.103	0.103	0.057	0.057	
			Luge 4	20303	1002.5	50	24	17.5	17.5	0.076	0.076	0.042	0.042	

11.16. LTE Band 26 (10MHz Bandwidth)

12.16.1. Head

Antonno	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Left Touch	26740	819.0	1	24	23.0	23.0	0.421	0.421	0.274	0.274	
			Len Touch	20740	019.0	25	12	22.0	22.0	0.349	0.349	0.227	0.227	
			Left Tilt	26740	819.0	1	24	23.0	23.0	0.318	0.318	0.188	0.188	
UAT	QPSK	0	Len Till	20740	019.0	25	12	22.0	22.0	0.261	0.261	0.155	0.155	
OAT	QI SIX		Right	26740	819.0	1	24	23.0	23.0	0.464	0.464	0.295	0.295	42
		To	Touch	20740	019.0	25	12	22.0	22.0	0.382	0.382	0.243	0.243	
		Right Tilt	26740	819.0	1	24	23.0	23.0	0.264	0.264	0.155	0.155		
		rtight the	20740	013.0	25	12	22.0	22.0	0.219	0.219	0.129	0.129		
			Left Touch	26740	819.0	1	24	23.0	23.0	0.159	0.159	0.122	0.122	
			Lent Touch	20740	019.0	25	12	22.0	22.0	0.127	0.127	0.098	0.098	
			Left Tilt	26740	819.0	1	24	23.0	23.0	0.101	0.101	0.078	0.078	
LAT	T 000/ 0	Leit Tiit	20740	019.0	25	12	22.0	22.0	0.082	0.082	0.063	0.063		
LAI	AT QPSK 0 -	Right	26740	819.0	1	24	23.0	23.0	0.134	0.134	0.103	0.103		
		Touch	20740	013.0	25	12	22.0	22.0	0.106	0.106	0.082	0.082		
		Right Tilt	26740	819.0	1	24	23.0	23.0	0.102	0.102	0.079	0.079		
		Nigrit Till	20740	019.0	25	12	22.0	22.0	0.083	0.083	0.064	0.064		

12.16.2. Body-worn Accessory & Hotspot

Body-worn Accessory & Hotspot

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAR	R (W/kg)	10-g SAI	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Rear	26740	819.0	1	24	23.0	23.0	0.179	0.179	0.115	0.115	
ΠΑΤ	UAT QPSK 5	Neai	20740	019.0	25	12	22.0	22.0	0.147	0.147	0.095	0.095		
UAI	UAT QPSK	3	Front	26740	819.0	1	24	23.0	23.0	0.201	0.201	0.158	0.158	
			TIOIT	20740	019.0	25	12	22.0	22.0	0.165	0.165	0.130	0.130	
		Rear	26740	819.0	1	24	23.0	23.0	0.227	0.227	0.153	0.153	43	
ΙΔΤ	LAT OPSK	5	Neai	20740	019.0	25	12	22.0	22.0	0.186	0.186	0.125	0.125	
LAI	LAT QPSK	3	Front	26740	819.0	1	24	23.0	23.0	0.210	0.210	0.134	0.134	
			TIOIIL	20740	013.0	25	12	22.0	22.0	0.178	0.178	0.113	0.113	

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Edge 1	26740	819.0	1	24	23.0	23.0	0.095	0.095	0.429	0.429	
			Luge	20740	019.0	25	12	22.0	22.0	0.080	0.080	0.354	0.354	
UAT	QPSK	5	Edge 2	26740	819.0	1	24	23.0	23.0	0.294	0.294	0.194	0.194	
UAT	QFSK	3	Luge 2	20740	019.0	25	12	22.0	22.0	0.245	0.245	0.161	0.161	
			Edge 4	26740	819.0	1	24	23.0	23.0	0.202	0.202	0.132	0.132	
			Luge 4	20740	019.0	25	12	22.0	22.0	0.165	0.165	0.107	0.107	
			Edge 2	26740	819.0	1	24	23.0	23.0	0.170	0.170	0.111	0.111	
			Luge 2	20740	019.0	25	12	22.0	22.0	0.137	0.137	0.090	0.090	
LAT	QPSK	5	Edge 3	26740	819.0	1	24	23.0	23.0	0.121	0.121	0.059	0.059	
LAI	QFSK	3	Luge 3	20740	019.0	25	12	22.0	22.0	0.099	0.099	0.048	0.048	
			Edge 4	26740	819.0	1	24	23.0	23.0	0.370	0.370	0.243	0.243	44
			Luge 4	20740	019.0	25	12	22.0	22.0	0.299	0.299	0.196	0.196	

11.17. LTE Band 41 (20MHz Bandwidth)

11.17.1. Head

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Left Touch	40620	2593.0	1	49	22.5	22.5	0.316	0.316	0.133	0.133	
			Len Touch	40020	2393.0	50	24	21.5	21.5	0.295	0.295	0.123	0.123	
			Left Tilt	40620	2593.0	1	49	22.5	22.5	0.372	0.372	0.154	0.154	
UAT	QPSK	0	Len Till	40020	2090.0	50	24	21.5	21.5	0.369	0.369	0.150	0.150	
OAI	QI SIX	0	Right	40620	2593.0	1	49	22.5	22.5	0.712	0.712	0.314	0.314	45
			Touch	40020	2090.0	50	24	21.5	21.5	0.627	0.627	0.281	0.281	
		Right Tilt	40620	2593.0	1	49	22.5	22.5	0.443	0.443	0.220	0.220		
		ragin fin	40020	2090.0	50	24	21.5	21.5	0.390	0.390	0.191	0.191		
			Left Touch	40620	2593.0	1	49	22.5	22.5	0.265	0.265	0.146	0.146	
			Lent Touch	40020	2090.0	50	24	21.5	21.4	0.161	0.165	0.084	0.086	
			Left Tilt	40620	2593.0	1	49	22.5	22.5	0.090	0.090	0.040	0.040	
LAT	OPSK	0	Len Till	40020	2090.0	50	24	21.5	21.4	0.087	0.089	0.033	0.034	
LAI		Right	40620	2593.0	1	49	22.5	22.5	0.501	0.501	0.267	0.267		
		Touch	40020	2000.0	50	24	21.5	21.4	0.408	0.418	0.216	0.221		
		Right Tilt	40620	2593.0	1	49	22.5	22.5	0.183	0.183	0.083	0.083		
			Right Hit	40020	2000.0	50	24	21.5	21.4	0.148	0.151	0.067	0.068	

11.17.2. Body-worn Accessory & Hotspot

Body-worn Accessory & Hotspot

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Antenna	Mode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
				39750	2506.0	1	49	22.5	22.5	0.843	0.843	0.340	0.340	
				40185	2549.5	1	49	22.5	22.5	0.903	0.903	0.361	0.361	
			Rear	40620	2593.0	1	49	22.5	22.5	0.979	0.979	0.384	0.384	
UAT	QPSK	5	rtoai	40020	2000.0	50	24	21.5	21.5	0.756	0.756	0.301	0.301	
OAT	QI OIX	0		41055	2636.5	1	49	22.5	22.5	0.967	0.967	0.368	0.368	
				41490	2680.0	1	49	22.5	22.4	0.916	0.937	0.335	0.343	
			Front	40620	2593.0	1	49	22.5	22.5	0.561	0.561	0.240	0.240	
			110110	10020	2000.0	50	24	21.5	21.5	0.337	0.337	0.144	0.144	
				39750	2506.0	1	49	19.0	19.0	0.945	0.945	0.445	0.445	
				00700	2000.0	50	24	18.0	18.0	0.556	0.556	0.264	0.264	
				40185	2549.5	1	49	19.0	19.0	1.180	1.180	0.410	0.410	
				10.00	20 10.0	50	24	18.0	18.0	0.912	0.912	0.316	0.316	
						1	49	19.0	19.0	1.010	1.010	0.474	0.474	
			Rear	40620	2593.0	50	24	18.0	18.0	0.891	0.891	0.302	0.302	
LAT	QPSK	5				100	0	18.0	18.0	0.662	0.662	0.237	0.237	
				41055	2636.5	1	49	19.0	18.8	1.080	1.131	0.380	0.398	
					2000.0	50	24	18.0	18.0	0.760	0.760	0.249	0.249	
				41490	2680.0	1	49	19.0	19.0	1.180	1.180	0.406	0.406	46
					2000.0	50	24	18.0	18.0	0.889	0.889	0.300	0.300	
			Front	40620	2593.0	1	49	19.0	19.0	0.361	0.361	0.150	0.150	
				.5520	2000.0	50	24	18.0	18.0	0.294	0.294	0.120	0.120	
						SAR N	leasureme	nt Variability	У					
LAT	QPSK	5	Rear	41490	2680	1	49	19.0	19.0	1.150	1.150	0.439	0.439	

Antenna	Mode	Dist.	Test	UL	Freq.	UL RB	UL RB	Tune-up	Meas. Pwr	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Antenna	iviode	(mm)	Position	Ch #.	(MHz)	Allocation	Start	Limit	(dBm)	Meas.	Scaled	Meas.	Scaled	No.
			Edge 1	40620	2593.0	1	49	22.5	22.5	0.265	0.265	0.113	0.113	
			Luge	40020	2090.0	50	24	21.5	21.5	0.225	0.225	0.096	0.096	
UAT	QPSK	5	Edge 2	40620	2593.0	1	49	22.5	22.5	0.136	0.136	0.062	0.062	
UAI		Luge 2	40020	2393.0	50	24	21.5	21.5	0.039	0.039	0.016	0.016		
		Edge 4	40620	2593.0	1	49	22.5	22.5	0.265	0.265	0.127	0.127		
		Luge 4	40020	2090.0	50	24	21.5	21.5	0.226	0.226	0.108	0.108		
		Edge 2	40620	2593.0	1	49	19.0	19.0	0.328	0.328	0.147	0.147		
			Luge 2	40020	2393.0	50	24	18.0	18.0	0.235	0.235	0.108	0.108	
LAT	LAT ODSK F	5	Edge 3	40620	2593.0	1	49	19.0	19.0	0.509	0.509	0.215	0.215	
LAI	LAT QPSK	3	Luge 3	40020	2393.0	50	24	18.0	18.0	0.314	0.314	0.137	0.137	
			Edge 4	40620	2593.0	1	49	19.0	19.0	0.269	0.269	0.125	0.125	
			Luge 4	40020	2593.0	50	24	18.0	18.0	0.168	0.168	0.075	0.075	

11.18. Wi-Fi 2.4GHz

11.18.1. Head (P_{Cell_ON})

Wi-Fi		Dist.	Test		Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Variant	Variant Mode	(mm)	Position	Ch #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
		Left Touch	6	2437	15.0	14.9	0.306	0.313	0.128	0.131		
Variant 2	Variant 3 802 11h	0	Left Tilt	6	2437	15.0	14.9	0.336	0.344	0.141	0.144	
Vallatit 3	Variant 3 802.11b	U	Right Touch	6	2437	15.0	14.9	0.498	0.510	0.230	0.235	
			Right Tilt	6	2437	15.0	14.9	0.394	0.403	0.173	0.177	

Worst Case Spot Check

Wi-Fi		Dist.			Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Variant	Mode	(mm)	Test Position	Ch #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
Variant 1	802.11b	0	Right Touch	6	2437	15.0	15.0	0.498	0.498	0.233	0.233	
Variant 2	802.11b	0	Right Touch	6	2437	15.0	14.9	0.413	0.423	0.193	0.197	

11.18.2. Head (P_{Cell_OFF})

Wi-Fi		Dist.	Test		Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Variant	Mode	(mm)	Position	Ch #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
			Left Touch	6	2437	18.0	18.0	0.600	0.600	0.252	0.252	
			Left Tilt	6	2437	18.0	18.0	0.707	0.707	0.296	0.296	
				1	2412	18.0	18.0	0.803	0.803	0.380	0.380	
Variant 3	/ariant 3 802 11h	0	Right Touch	6	2437	18.0	18.0	1.120	1.120	0.520	0.520	
Vallatil 3	'ariant 3 802.11b	0		11	2462	18.0	18.0	1.150	1.150	0.532	0.532	47
				1	2412	18.0	18.0	0.738	0.738	0.314	0.314	
			Right Tilt	6	2437	18.0	18.0	0.850	0.850	0.368	0.368	
				11	2462	18.0	18.0	0.665	0.665	0.339	0.339	

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۱۸/	i-Fi		Dist.			Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
	riant	Mode	(mm)	Test Position	Ch #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
Vari	ant 1	802.11b	0	Right Touch	11	2462	18.0	18.0	1.010	1.010	0.469	0.469	
Vari	ant 2	802.11b	0	Right Touch	11	2462	18.0	17.9	0.933	0.955	0.436	0.446	

11.18.3. Body-worn Accessory & Hotspot (P_{Cell_ON})

Wi-Fi		Dist.	Test		Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Variant	Mode	(mm)	Position	Ch #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
			Rear	6	2437	15.0	14.9	0.573	0.586	0.234	0.239	
			Front	6	2437	15.0	14.9	0.270	0.276	0.118	0.121	
Variant 3	802.11b	5	Edge 1	6	2437	15.0	14.9	0.279	0.285	0.124	0.127	
			Edge 2	6	2437	15.0	14.9	0.114	0.117	0.056	0.058	
			Edge 4	6	2437	15.0	14.9	0.272	0.278	0.131	0.134	

Worst Case Spot Check

Wi-Fi		Dist.			Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Variant	Mode	(mm)	Test Position	Ch #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
Variant 1	802.11b	5	Rear	6	2437	15.0	15.0	0.499	0.499	0.204	0.204	
Variant 2	802.11b	5	Rear	6	2437	15.0	14.9	0.492	0.503	0.203	0.208	

11.18.4. Body-worn Accessory & Hotspot (P_{Cell_OFF})

Wi-Fi		Dist.	Test		Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Variant	Mode	(mm)	Position	Ch #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
				1	2412	18.0	18.0	0.908	0.908	0.368	0.368	
			Rear	6	2437	18.0	18.0	1.150	1.150	0.479	0.479	48
Variant 3				11	2462	18.0	18.0	1.070	1.070	0.447	0.447	
	802.11b	5	Front	6	2437	18.0	18.0	0.550	0.550	0.243	0.243	
			Edge 1	6	2437	18.0	18.0	0.608	0.608	0.276	0.276	
			Edge 2	6	2437	18.0	18.0	0.223	0.223	0.112	0.112	
			Edge 4	6	2437	18.0	18.0	0.650	0.650	0.314	0.314	
				SA	R Measure	ment Varia	ability					
Variant 3	802.11b	5	Rear	6	2437	18.0	18.0	1.130	1.130	0.472	0.472	

	3.33 G P G	• • • • •	•									
Wi-Fi		Dist.			Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Variant	Mode	(mm)	Test Position	Ch #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
Variant 1	802.11b	5	Rear	6	2437	18.0	18.0	0.971	0.971	0.404	0.404	
Variant 2	802.11b	5	Rear	6	2437	18.0	18.0	1.120	1.120	0.463	0.463	

11.19. Wi-Fi 5GHz

11.19.1. Head

Wi-Fi		Dist.			Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Variant	Mode	(mm)	Test Position	Ch #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
				36	5180	12.0	12.0	0.164	0.164	0.054	0.054	
			Left Touch	52	5260	11.0	11.0	0.155	0.155	0.042	0.042	
			Leit Toucii	124	5620	9.0	9.0	0.219	0.219	0.060	0.060	
				157	5785	11.5	11.5	0.213	0.213	0.061	0.061	
				36	5180	12.0	12.0	0.174	0.174	0.059	0.059	
			Left Tilt	52	5260	11.0	11.0	0.183	0.183	0.051	0.051	
			Leit Tiit	124	5620	9.0	9.0	0.153	0.153	0.039	0.039	
Variant 3	802.11a	0		157	5785	11.5	11.5	0.189	0.189	0.056	0.056	
Valiant 3	6 Mbps	U		36	5180	12.0	12.0	0.458	0.458	0.082	0.082	49
			Right Touch	52	5260	11.0	11.0	0.396	0.396	0.091	0.091	
			Night Todon	124	5620	9.0	9.0	0.351	0.351	0.074	0.074	
				157	5785	11.5	11.5	0.473	0.473	0.098	0.098	
				36	5180	12.0	12.0	0.320	0.320	0.057	0.057	
			Right Tilt	52	5260	11.0	11.0	0.362	0.362	0.083	0.083	
			Night Hit	124	5620	9.0	9.0	0.270	0.270	0.059	0.059	
				157	5785	11.5	11.5	0.490	0.490	0.102	0.102	50

Wi-Fi		Dist.			Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Variant	Mode	(mm)	Test Position	Ch #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
				36	5180	12.0	12.0	0.371	0.371	0.091	0.091	
Variant 1	802.11a	0	Right Touch	52	5260	11.0	11.0	0.403	0.403	0.085	0.085	51
Variant 1	6 Mbps	0		124	5620	9.0	9.0	0.312	0.312	0.070	0.070	
			Right Tilt	157	5785	11.5	11.5	0.441	0.441	0.093	0.093	
				36	5180	12.0	12.0	0.370	0.370	0.090	0.090	
	802.11a	0	Right Touch	52	5260	11.0	11.0	0.378	0.378	0.087	0.087	
	6 Mbps			124	5620	9.0	8.9	0.467	0.478	0.100	0.102	52
			Right Tilt	157	5785	11.5	11.5	0.423	0.423	0.109	0.109	

11.19.2. Body-worn Accessory & Airplay

Wi-Fi		Dist.			Frog	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Variant	Mode	(mm)	Test Position	Ch #.	Freq. (MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
				48	5240	18.0	17.9	0.311	0.318	0.082	0.084	
			Rear	52	5320	17.0	16.9	0.316	0.323	0.128	0.131	
			Real	124	5580	14.5	14.5	0.239	0.239	0.061	0.061	
				157	5785	17.0	17.0	0.311	0.311	0.087	0.087	
				48	5240	18.0	17.9	0.367	0.376	0.110	0.113	53
			Front	52	5320	17.0	16.9	0.395	0.404	0.125	0.128	54
			FIOIIL	124	5580	14.5	14.5	0.371	0.371	0.101	0.101	
Variant 3	802.11a	5		157	5785	17.0	17.0	0.385	0.385	0.116	0.116	55
Valiant 3	6 Mbps	3		48	5240	18.0	17.9	0.192	0.196	0.066	0.068	
			Edge 1	52	5260	17.0	17.0	0.113	0.113	0.037	0.037	
			Euge	124	5620	14.5	14.5	0.112	0.112	0.035	0.035	
				157	5785	17.0	17.0	0.245	0.245	0.099	0.099	
			_	48	5240	18.0	17.9	0.250	0.256	0.078	0.080	
			Edge 4	52	5260	17.0	17.0	0.344	0.344	0.109	0.109	
			Luge 4	124	5620	14.5	14.5	0.137	0.137	0.043	0.043	
				157	5785	17.0	17.0	0.252	0.252	0.098	0.098	

Worst Case Spot Check

Wi-Fi		Dist.			Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Variant	Mode	(mm)	Test Position	Ch #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
				48	5240	18.0	17.9	0.322	0.330	0.092	0.094	
Variant 1	802.11a	5	Front	52	5260	17.0	17.0	0.331	0.331	0.087	0.087	
Vallatit 1	6 Mbps	5	FIOIIL	124	5620	14.5	14.5	0.324	0.324	0.087	0.087	
				157	5785	17.0	17.0	0.378	0.378	0.121	0.121	
				48	5240	18.0	17.9	0.332	0.340	0.097	0.099	
Variant 2	802.11a	5	Front	52	5260	17.0	17.0	0.334	0.334	0.112	0.112	
Variant 2	6 Mbps	3	TIOIL	124	5620	14.5	14.5	0.395	0.395	0.104	0.104	56
				157	5785	17.0	16.9	0.337	0.345	0.100	0.102	

11.19.3. 802.11ac Mode

Wi-Fi		Dist.			Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Variant	Mode	(mm)	Test Position	Ch #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
				48	5240	18.0	17.9	0.337	0.345	0.080	0.082	
		0	Right Touch	52	5260	17.0	17.0	0.359	0.359	0.082	0.082	
		U		104	5520	14.5	14.5	0.281	0.281	0.062	0.062	
Variant 3	802.11ac		Right Tilt	157	5785	11.5	11.5	0.428	0.428	0.101	0.101	
Variatit 3	(20MHz)			48	5240	18.0	17.9	0.279	0.285	0.082	0.084	
		5	Front	52	5260	17.0	17.0	0.275	0.275	0.080	0.080	
		3	TIOIL	116	5580	14.5	14.5	0.266	0.266	0.076	0.076	
				157	5785	17.0	16.9	0.264	0.270	0.083	0.085	

11.20. Bluetooth

11.20.1. Body-worn Accessory

Wi-Fi		Dist.			Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SA	R (W/kg)	Plot
Variant	Mode	(mm)	Test Position	Ch #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
Variant 3	GFSK	5	Rear	39	2441	12.0	12.0	0.080	0.080	0.033	0.033	
varialit 3	GI'SK	3	Front	39	2441	12.0	12.0	0.031	0.031	0.013	0.013	

Wi-Fi		Dist.			Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g SAI	R (W/kg)	Plot
Variant	Mode	(mm)	Test Position	Ch #.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled	No.
Variant 1	GFSK	5	Rear	39	2441	12.0	12.0	0.078	0.078	0.030	0.030	
Variant 2	GFSK	5	Rear	39	2441	12.0	12.0	0.080	0.080	0.031	0.031	

Measured SAR Results for Model A1549

Testing for Model A1549 was performed on a spot check basis for the worst-case positions established from model A1586.

11.21. Worst Case Spot Check

Band	Antenna	Mode	Dist.	Test Position	Ch #.	Freq.	Power	(dBm)	1-g SAF	R (W/kg)	10-g (W)	SAR ⁄kg)
Bana	Airiterina	Wiode	(mm)	rest resident	On w.	(MHz)	Tune-up limit	Meas.	Meas.	Scaled	Meas.	Scaled
GSM850	UAT	GPRS 2 Slots	0	Left Touch	190	836.6	32.2	32.2	0.703	0.703	0.508	0.508
GSM1900	LAT	EGPRS 2 Slots	5	Rear	810	1909.8	26.8	26.8	1.140	1.140	0.554	0.554
W-CDMA Band V	LAT	Rel. 99 RMC	5	Edge 4	4183	836.6	25.0	25.0	0.812	0.812	0.530	0.530
W-CDMA Band IV	UAT	Rel. 99 RMC	5	Edge 1	1312	1712.4	23.1	23.1	0.963	0.963	0.474	0.474
W-CDMA Band II	LAT	Rel. 99 RMC	0	Right Touch	9400	1880.0	24.25	24.25	1.030	1.030	0.633	0.633
CDMA BC0	LAT	1xRTT RC3 SO32	5	Edge 4	777	848.3	25.0	24.7	0.822	0.881	0.536	0.574
CDMA BC1	LAT	1xEVDO Rel. 0	0	Right Touch	1175	1908.75	24.25	24.25	1.080	1.080	0.670	0.670
CDMA BC10	LAT	1xRTT RC3 SO32	0	Edge 4	580	820.5	25.0	25.0	0.598	0.598	0.387	0.387
CDMA BC15	LAT	1xRTT RC3 SO32	5	Edge 3	875	1753.75	19.0	19.0	0.920	0.920	0.442	0.442
LTE Band 2	LAT	QPSK, RB 1/49	0	Rear	19100	1900.0	18.5	18.5	1.040	1.040	0.633	0.633
LTE Band 4	LAT	QPSK, RB 1/49	5	Rear	20300	1745.0	19.0	19.0	0.942	0.942	0.456	0.456
LTE Band 5	LAT	QPSK, RB 1/24	5	Edge 4	20525	836.6	24.0	24.0	0.486	0.486	0.319	0.319
LTE Band 13	LAT	QPSK, RB 1/24	5	Edge 4	23230	782.0	24.0	24.0	0.695	0.695	0.462	0.462
LTE Band 17	LAT	QPSK, RB 1/24	5	Edge 4	23790	710.0	24.0	24.0	0.496	0.496	0.336	0.336
LTE Band 25	LAT	QPSK, RB 1/49	5	Rear	26365	1882.5	17.5	17.5	1.070	1.070	0.508	0.508
LTE Band 26	UAT	QPSK, RB 1/24	5	Right Touch	26740	819.0	23.0	23.0	0.466	0.466	0.306	0.306

12. SAR Measurement Variability

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01. 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.

- Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, 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 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

12.1. The Highest Measured SAR Configuration in Each Frequency Band

Frequency Band (MHz)	Air Interface	Head (W/kg)	Body-worn Accessory (W/kg)	Hotspot/Airplay (W/kg)
750	LTE Band 13	N/A	N/A	N/A
	LTE Band 17	N/A	N/A	N/A
850	GSM 850	N/A	N/A	N/A
	CDMA BC0	N/A	0.877	N/A
	CDMA BC10	N/A	N/A	N/A
	WCDMA Band V	N/A	N/A	N/A
	LTE Band 5	N/A	N/A	N/A
	LTE Band 26	N/A	N/A	N/A
1900	GSM 1900	N/A	N/A	N/A
	CDMA BC1	N/A	N/A	N/A
	WCDMA Band II	1.180	N/A	N/A
	LTE Band 2	N/A	N/A	N/A
	LTE Band 25	N/A	N/A	N/A
1750	LTE Band 4	N/A	1.100	N/A
	WCDMA Band IV	N/A	N/A	N/A
	CDMA BC15	N/A	N/A	N/A
2400	Wi-Fi 802.11b/g/n	N/A	1.150	N/A
2600	LTE Band 41	N/A	1.180	N/A
5200	Wi-Fi 802.11a/n/ac	N/A	N/A	N/A
5300	Wi-Fi 802.11a/n/ac	N/A	N/A	N/A
5500	Wi-Fi 802.11a/n/ac	N/A	N/A	N/A
5800	Wi-Fi 802.11a/n/ac	N/A	N/A	N/A

12.2. Repeated Measurement Results

Head

Frequency band	Test Position	Test Position Antenna Mode Ch #.		Freq.	Freq. Meas. SAR (W/kg)		Largest to Smallest SAR	Note	
Trequency band	16St FOSITION	Antenna	Mode	GII#.	(MHz)	Original	Repeated	Ratio	Note
W-CDMA Band II	Right Touch	LAT	Rel. 99 RMC	9400	1880.0	1.180	1.140	1.04	1

Body-worn

Frequency band	Test Position	Antonna	Mode	Ch #	Ch #. Freq.	Meas. SAR (W/kg)		Largest to Smallest SAR	Note
Trequency band	1 est Fosition	osition Antenna Mode Ch #. (MHz)		(MHz)	Original	Repeated	Ratio	Note	
CDMA BC0	Edge 4	LAT	1xRTT (RC3 SO32)	777	848.3	0.877	0.865	1.01	1
LTE Band 4	Rear	LAT	QPSK	20300	1745.0	1.100	1.040	1.06	1
Wi-Fi 2.4GHz	Rear	UAT	802.11b	6	2437.0	1.150	1.130	1.02	1
LTE Band 41	Rear	LAT	QPSK	41490	2680.0	1.180	1.150	1.03	1

Hotspot

N/A

Note(s):

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

13. Simultaneous Transmission SAR Analysis

KDB 447498 D01 General RF Exposure Guidance v05, introduces a new formula for calculating the SAR to Peak Location Ratio (SPLSR) between pairs of simultaneously transmitting antennas:

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

Where:

SAR₁ is the highest reported or estimated SAR for the first of a pair of simultaneous transmitting antennas, in a specific test operating mode and exposure condition

SAR₂ is the highest reported or estimated SAR for the second of a pair of simultaneous transmitting antennas, in the same test operating mode and exposure condition as the first

Ri is the separation distance between the pair of simultaneous transmitting antennas. When the SAR is measured, for both antennas in the pair, it is determined by the actual x, y and z coordinates in the 1-g SAR for each SAR peak location, based on the extrapolated and interpolated result in the zoom scan measurement, using the formula of $[(x_1-x_2)^2+(y_1-y_2)^2+(z_1-z_2)^2]$

A new threshold of 0.04 is also introduced in the draft KDB. Thus, in order for a pair of simultaneous transmitting antennas with the sum of 1-g SAR > 1.6 W/kg to qualify for exemption from Simultaneous Transmission SAR measurements, it has to satisfy the condition of:

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

13.1. Sum of the SAR for GSM850 (UAT) + Wi-Fi DTS & UNII Band & BT

DE Evnocuro	Test	\$	Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
RF Exposure conditions	Position	GSM 850	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.803	0.313			1.116	No
	Touch	0.803		0.219		1.022	No
	Left	0.514	0.344			0.858	No
Head	Tilt	0.514		0.189		0.703	No
Heau	Right	0.759	0.510			1.269	No
	Touch	0.759		0.478		1.237	No
	Right	0.472	0.403			0.875	No
	Tilt	0.472		0.490		0.962	No
	Rear	0.379	0.586		N/A	0.965	No
Body-worn Accessory	Real	0.379		0.323	0.080	0.782	No
& Hotspot	Front	0.374	0.276		N/A	0.650	No
	TIOIR	0.374		0.404	0.031	0.809	No
	Edge 1	0.198	0.285			0.483	No
	Luge	0.198		0.196		0.394	No
	Edge 2	0.337	0.117			0.454	No
Hotspot	Luge 2	0.337		0		0.337	No
Ποιδροί	Edge 3	0	0			0	No
		0		0		0	No
	Edge 4	0.213	0.278			0.491	No
	Luge 4	0.213		0.344		0.557	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.2. Sum of the SAR for GSM850 (LAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test	5	Simultaneous Trar	nsmission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	GSM 850	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.389	0.313			0.702	No
	Touch	0.389		0.219		0.608	No
	Left	0.301	0.344			0.645	No
Head	Tilt	0.301		0.189		0.490	No
Head	Right	0.331	0.510			0.841	No
	Touch	0.331		0.478		0.809	No
	Right	0.223	0.403			0.626	No
	Tilt	0.223		0.490		0.713	No
	Rear	0.523	0.586		N/A	1.109	No
Body-worn Accessory	Real	0.523		0.323	0.080	0.926	No
& Hotspot	Front	0.516	0.276		N/A	0.792	No
	FIOR	0.516		0.404	0.031	0.951	No
	Edge 1	0	0.285			0.285	No
	Luge	0		0.196		0.196	No
	Edge 2	0.402	0.117			0.519	No
Hotspot	Luge 2	0.402		0		0.402	No
Ποιδροι	Edge 3	0.294	0			0.294	No
	Luge 3	0.294		0		0.294	No
	Edgo 4	0.549	0.278			0.827	No
	Edge 4	0.549		0.344		0.893	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.3. Sum of the SAR for GSM1900 (UAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test		Simultaneous Trar	smission Scenari	0	∑1-g SAR	SPLSR
conditions	Position	GSM 1900	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.308	0.313			0.621	No
	Touch	0.308		0.219		0.527	No
	Left	0.342	0.344			0.686	No
Head	Tilt	0.342		0.189		0.531	No
rieau	Right	0.907	0.510			1.417	No
	Touch	0.907		0.478		1.385	No
	Right	0.723	0.403			1.126	No
	Tilt	0.723		0.490		1.213	No
5 .	Rear	0.883	0.586		N/A	1.469	No
Body-worn Accessory	iteai	0.883		0.323	0.080	1.286	No
& Hotspot	Front	0.910	0.276		N/A	1.186	No
,	TIOII	0.910		0.404	0.031	1.345	No
	Edge 1	0.914	0.285			1.199	No
	Lage	0.914		0.196		1.110	No
	Edge 2	0.980	0.117			1.097	No
Hotspot	Luge 2	0.980		0		0.980	No
Ποιδροί	Edge 3	0	0			0	No
		0		0		0	No
[Edge 4	0.250	0.278			0.528	No
		0.250		0.344		0.594	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.4. Sum of the SAR for GSM1900 (LAT) + Wi-Fi DTS & UNII Band & BT

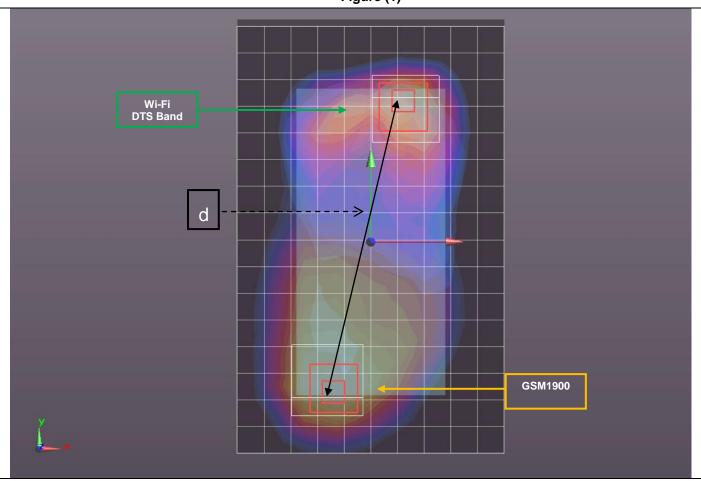
RF Exposure	Test	;	Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	GSM 1900	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.369	0.313			0.682	No
	Touch	0.369		0.219		0.588	No
	Left	0.384	0.344			0.728	No
Head	Tilt	0.384		0.189		0.573	No
rieau	Right	0.762	0.510			1.272	No
	Touch	0.762		0.478		1.240	No
	Right	0.355	0.403			0.758	No
	Tilt	0.355		0.490		0.845	No
5 -	Rear	1.160	0.586		N/A	1.746	Yes
Body-worn Accessory	Real	1.160		0.323	0.080	1.563	No
& Hotspot	Front	1.120	0.276		N/A	1.396	No
,	TIOIL	1.120		0.404	0.031	1.555	No
	Edge 1	0	0.285			0.285	No
	Luge	0		0.196		0.196	No
	Edge 2	0.525	0.117			0.642	No
Hotspot	Luge 2	0.525		0		0.525	No
Ποιδροί	Edge 3	1.090	0			1.090	No
		1.090		0		1.090	No
[Edge 4	0.183	0.278			0.461	No
	Luye 4	0.183		0.344		0.527	No

SAR to Peak Location Separation Ratio (SPLSR)

RF Exposure	Test	Wors	t-case combir	nation	∑ 1-g SAR	Calculated	SPLSR	Volume	
conditions	Position	GSM 1900	Wi-Fi DTS Band	Wi-Fi UNII Band	(mW/g)	distance (mm)	(≤ 0.04)	Scan (Yes/ No)	Figure
Body-worn Accessory & Hotspot	Rear	1.160	0.586		1.746	135.4	0.017	No	1

Conclusion:

Figure (1)



Mode	Peak SAR	X	Υ	Z
Mode	mW/g	m	m	m
GSM1900	2.29	-0.0179	-0.0684	-0.184
Wi-Fi DTS Band	1.48	0.0156	0.0628	-0.186

d: Calculated distance (mm)

135.4

The Peak Location Separation Distance is computed by using the formula below: 3QRT((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)

13.5. Sum of the SAR for W-CDMA Band V (UAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test		Simultaneous Trar	nsmission Scenari	0	∑1-g SAR	SPLSR
conditions	Position	W-CDMA Band V	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.900	0.313			1.213	No
	Touch	0.900		0.219		1.119	No
	Left	0.650	0.344			0.994	No
Head	Tilt	0.650		0.189		0.839	No
rieau	Right	0.887	0.510			1.397	No
	Touch	0.887		0.478		1.365	No
	Right	0.544	0.403			0.947	No
	Tilt	0.544		0.490		1.034	No
5 -	Rear	0.462	0.586		N/A	1.048	No
Body-worn Accessory	Real	0.462		0.323	0.080	0.865	No
& Hotspot	Front	0.508	0.276		N/A	0.784	No
,	TIOIL	0.508		0.404	0.031	0.943	No
	Edge 1	0.247	0.285			0.532	No
	Luge	0.247		0.196		0.443	No
	Edge 2	0.329	0.117			0.446	No
Hotspot	Luge 2	0.329		0		0.329	No
Ποιδροί	Edge 3	0	0			0	No
		0		0		0	No
[Edge 4	0.586	0.278			0.864	No
		0.586		0.344		0.930	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.6. Sum of the SAR for W-CDMA Band V (LAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test	S	Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	W-CDMA Band V	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.408	0.313			0.721	No
	Touch	0.408		0.219		0.627	No
	Left	0.225	0.344			0.569	No
Head	Tilt	0.225		0.189		0.414	No
rieau	Right	0.336	0.510			0.846	No
	Touch	0.336		0.478		0.814	No
	Right	0.218	0.403			0.621	No
	Tilt	0.218		0.490		0.708	No
	Rear	0.491	0.586		N/A	1.077	No
Body-worn Accessory	Real	0.491		0.323	0.080	0.894	No
& Hotspot	Front	0.518	0.276		N/A	0.794	No
	FIOIIL	0.518		0.404	0.031	0.953	No
	Edge 1	0	0.285			0.285	No
	Lage	0		0.196		0.196	No
	Edge 2	0.419	0.117			0.536	No
Hotspot	Luge 2	0.419		0		0.419	No
Посорос	Edge 3	0.317	0			0.317	No
	Luge 5	0.317		0		0.317	No
	Edge 4	0.859	0.278			1.137	No
	Luge 4	0.859		0.344		1.203	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.7. Sum of the SAR for W-CDMA Band IV (UAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test		Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	W-CDMA Band IV	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.283	0.313			0.596	No
	Touch	0.283		0.219		0.502	No
	Left	0.314	0.344			0.658	No
Head	Tilt	0.314		0.189		0.503	No
Head	Right	0.754	0.510			1.264	No
	Touch	0.754		0.478		1.232	No
	Right Tilt	0.599	0.403			1.002	No
		0.599		0.490		1.089	No
	Rear	0.872	0.586		N/A	1.458	No
Body-worn Accessory		0.872		0.323	0.080	1.275	No
& Hotspot	Front	0.977	0.276		N/A	1.253	No
	FIOR	0.977		0.404	0.031	1.412	No
	Edge 1	0.999	0.285			1.284	No
	Luge	0.999		0.196		1.195	No
	Edge 2	0.015	0.117			0.132	No
Hotopot	Luge 2	0.015		0		0.015	No
Hotspot	Edge 3	0	0			0	No
	Luge 3	0		0		0	No
	Edge 4	0.606	0.278			0.884	No
		0.606		0.344		0.950	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.8. Sum of the SAR for W-CDMA Band IV (LAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test		Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	W-CDMA Band IV	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.310	0.313			0.623	No
	Touch	0.310		0.219		0.529	No
	Left	0.277	0.344			0.621	No
Head	Tilt	0.277		0.189		0.466	No
rieau	Right	0.755	0.510			1.265	No
	Touch	0.755		0.478		1.233	No
	Right Tilt	0.297	0.403			0.700	No
		0.297		0.490		0.787	No
5 -	Rear	0.732	0.586		N/A	1.318	No
Body-worn Accessory	rteai	0.732		0.323	0.080	1.135	No
& Hotspot	Front	0.851	0.276		N/A	1.127	No
,	TIOIL	0.851		0.404	0.031	1.286	No
	Edge 1	0	0.285			0.285	No
	Luge	0		0.196		0.196	No
	Edge 2	0.421	0.117			0.538	No
Hotspot	Luge 2	0.421		0		0.421	No
Ποιδροί	Edge 3	0.744	0			0.744	No
		0.744		0		0.744	No
[Edge 4	0.041	0.278			0.319	No
	Luye 4	0.041		0.344		0.385	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

Sum of the SAR for W-CDMA Band II (UAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test		Simultaneous Trar	nsmission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	W-CDMA Band II	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.404	0.313			0.717	No
	Touch	0.404		0.219		0.623	No
	Left	0.353	0.344			0.697	No
Head	Tilt	0.353		0.189		0.542	No
ricad	Right	0.978	0.510			1.488	No
	Touch	0.978		0.478		1.456	No
	Right Tilt	0.854	0.403			1.257	No
		0.854		0.490		1.344	No
	Rear	0.958	0.586		N/A	1.544	No
Body-worn Accessory	rtear	0.958		0.323	0.080	1.361	No
& Hotspot	Front	0.959	0.276		N/A	1.235	No
	FIOR	0.959		0.404	0.031	1.394	No
	Edge 1	0.955	0.285			1.240	No
	Luge	0.955		0.196		1.151	No
	Edge 2	0.086	0.117			0.203	No
Hotspot	Luge 2	0.086		0		0.086	No
Ποιδροί	Edge 3	0	0			0	No
		0		0		0	No
[Edge 4	0.596	0.278			0.874	No
	Luge 4	0.596		0.344		0.940	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

Report No.: 14U17673-S1C

13.9.

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

Issue Date: 8/15/2014

13.10. Sum of the SAR for W-CDMA Band II (LAT) + Wi-Fi DTS & UNII Band & BT

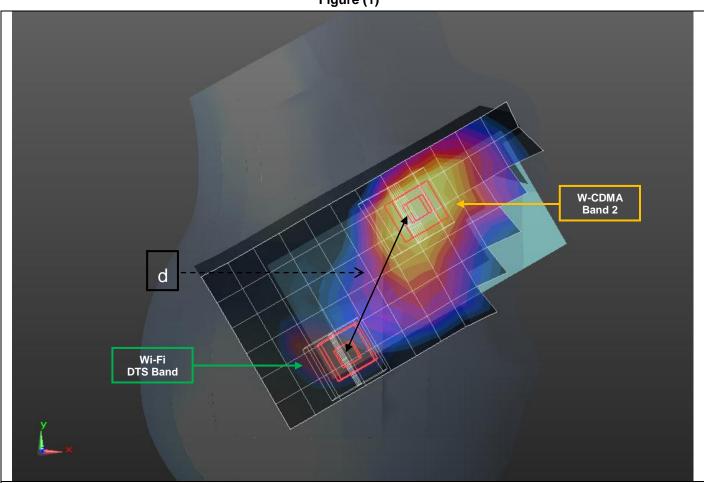
RF Exposure	Test		Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	W-CDMA Band II	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.549	0.313			0.862	No
	Touch	0.549		0.219		0.768	No
	Left	0.537	0.344			0.881	No
Head	Tilt	0.537		0.189		0.726	No
Head	Right	1.180	0.510			1.690	Yes
	Touch	1.180		0.478		1.658	Yes
	Right Tilt	0.440	0.403			0.843	No
		0.440		0.490		0.930	No
	Rear	1.020	0.586		N/A	1.606	Yes
Body-worn Accessory		1.020		0.323	0.080	1.423	No
& Hotspot	Front	0.988	0.276		N/A	1.264	No
	FIOR	0.988		0.404	0.031	1.423	No
	Edge 1	0	0.285			0.285	No
	Lage	0		0.196		0.196	No
	Edge 2	0.501	0.117			0.618	No
Hotspot	Luge 2	0.501		0		0.501	No
Ποιδροί	Edge 3	0.953	0			0.953	No
	Luge 3	0.953		0		0.953	No
	Edge 4	0.108	0.278			0.386	No
	Luge 4	0.108		0.344		0.452	No

SAR to Peak Location Separation Ratio (SPLSR)

57 II to I can Eccation Coparation Natio (CI Ecity											
RF Exposure conditions	Test Position	Wors W-CDMA Band II	t-case combir Wi-Fi DTS Band	nation Wi-Fi UNII Band	∑1-g SAR (mW/g)	Calculated distance (mm)	SPLSR (≤ 0.04)	Volume Scan (Yes/ No)	Figure		
Head Right Touch	1.180	0.510		1.690	88.9	0.025	No	1			
	Right Touch	1.180		0.478	1.658	79.5	0.027	No	2		
Body-worn Accessory & Hotspot	Rear	1.020	0.586		1.606	133.9	0.015	No	3		

Conclusion:

Figure (1)



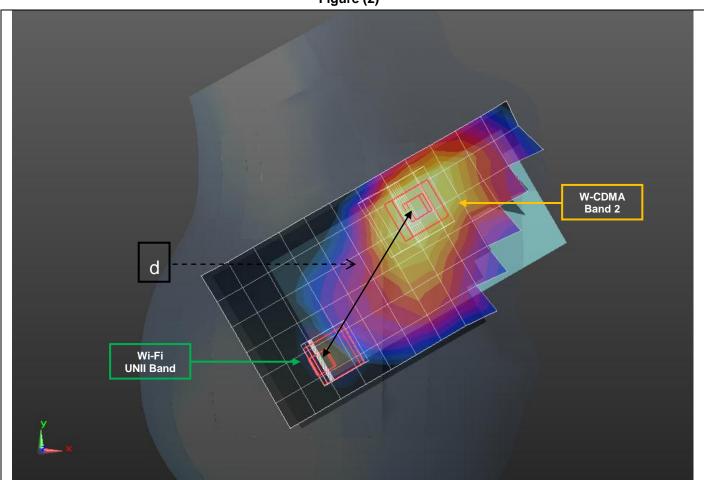
Mode	Peak SAR	X	Υ	Z
Mode	mW/g	m	m	m
W-CDMA Band II	1.87	0.068	-0.252	-0.174
Wi-Fi DTS Band	1	0.0292	-0.332	-0.175

d: Calculated distance (mm)

88.9

The Peak Location Separation Distance is computed by using the formula below: 3QRT((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)

Figure (2)

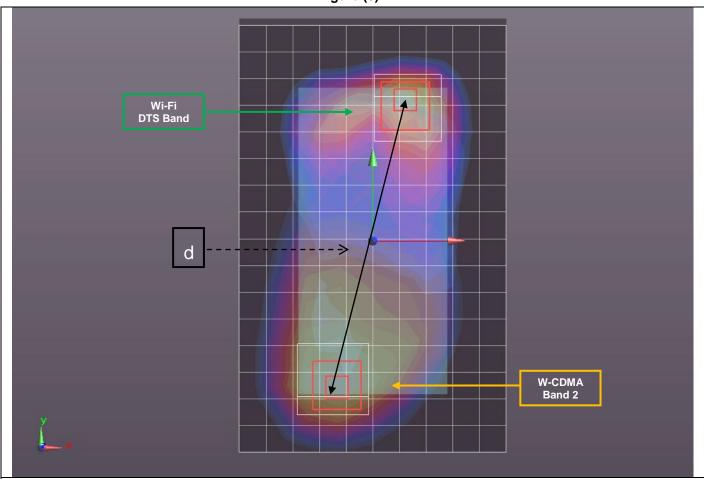


Mode	Peak SAR	X	Υ	Z
Mode	mW/g	m	m	m
W-CDMA Band II	1.87	0.068	-0.252	-0.174
Wi-Fi UNII Band	5.25	0.0344	-0.324	-0.175

d: Calculated distance (mm)
79.5

The Peak Location Separation Distance is computed by using the formula below: 5QRT((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)

Figure (3)



Mode	Peak SAR	X	Υ	Z
Wiode	mW/g	m	m	m
W-CDMA Band II	2.01	-0.018	-0.0668	-0.184
Wi-Fi DTS Band	1.48	0.0156	0.0628	-0.186

d: Calculated distance (mm)
133.9

The Peak Location Separation Distance is computed by using the formula below: 3QRT((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)

13.11. Sum of the SAR for CDMA BC0 (UAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test Position		Simultaneous Tran	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions		CDMA BC0	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.680	0.313			0.993	No
	Touch	0.680		0.219		0.899	No
	Left	0.483	0.344			0.827	No
Head	Tilt	0.483		0.189		0.672	No
Head	Right	0.510	0.510			1.020	No
	Touch	0.510		0.478		0.988	No
	Right Tilt	0.301	0.403			0.704	No
		0.301		0.490		0.791	No
	Rear	0.389	0.586		N/A	0.975	No
Body-worn Accessory		0.389		0.323	0.080	0.792	No
& Hotspot	Front	0.394	0.276		N/A	0.670	No
	FIOR	0.394		0.404	0.031	0.829	No
	Edge 1	0.219	0.285			0.504	No
	Luge	0.219		0.196		0.415	No
	Edge 2	0.385	0.117			0.502	No
Hotopot	Euge 2	0.385		0		0.385	No
Hotspot	Edge 3	0	0			0	No
	Luge 3	0		0		0	No
	Edge 4	0.236	0.278			0.514	No
	Luge 4	0.236		0.344		0.580	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.12. Sum of the SAR for CDMA BC0 (LAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test		Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	CDMA BC0	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.365	0.313			0.678	No
	Touch	0.365		0.219		0.584	No
	Left	0.201	0.344			0.545	No
Head	Tilt	0.201		0.189		0.390	No
rieau	Right	0.318	0.510			0.828	No
	Touch	0.318		0.478		0.796	No
	Right Tilt	0.194	0.403			0.597	No
		0.194		0.490		0.684	No
5 -	Rear	0.517	0.586		N/A	1.103	No
Body-worn Accessory	rtear	0.517		0.323	0.080	0.920	No
& Hotspot	Front	0.523	0.276		N/A	0.799	No
,	TIOIL	0.523		0.404	0.031	0.958	No
	Edge 1	0	0.285			0.285	No
	Luge	0		0.196		0.196	No
	Edge 2	0.439	0.117			0.556	No
Hotspot	Luge 2	0.439		0		0.439	No
Ποιδροί	Edge 3	0.318	0			0.318	No
		0.318		0		0.318	No
[Edge 4	0.940	0.278			1.218	No
	Luye 4	0.940		0.344		1.284	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.13. Sum of the SAR for CDMA BC1 (UAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test		Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	CDMA BC1	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.333	0.313			0.646	No
	Touch	0.333		0.219		0.552	No
	Left	0.299	0.344			0.643	No
Head	Tilt	0.299		0.189		0.488	No
ricau	Right	0.980	0.510			1.490	No
	Touch	0.980		0.478		1.458	No
	Right Tilt	0.751	0.403			1.154	No
		0.751		0.490		1.241	No
5 .	Rear	0.928	0.586		N/A	1.514	No
Body-worn Accessory	rtear	0.928		0.323	0.080	1.331	No
& Hotspot	Front	0.993	0.276		N/A	1.269	No
	FIOR	0.993		0.404	0.031	1.428	No
	Edge 1	0.975	0.285			1.260	No
	Luge	0.975		0.196		1.171	No
	Edge 2	0.091	0.117			0.208	No
Hotspot	Luge 2	0.091		0		0.091	No
Ποιδροι	Edge 3	0	0			0	No
	Luge 3	0		0		0	No
1	Edge 4	0.640	0.278			0.918	No
	Luge 4	0.640		0.344		0.984	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.14. Sum of the SAR for CDMA BC1 (LAT) + Wi-Fi DTS & UNII Band & BT

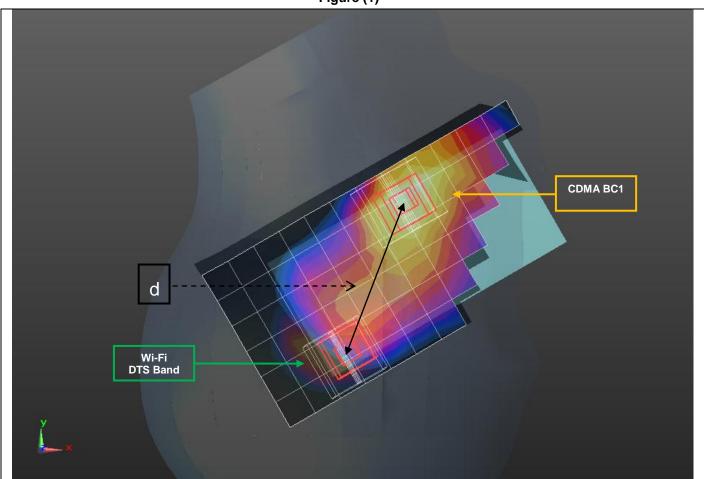
RF Exposure	Test	Ş	Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	CDMA BC1	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.553	0.313			0.866	No
	Touch	0.553		0.219		0.772	No
	Left	0.530	0.344			0.874	No
Head	Tilt	0.530		0.189		0.719	No
rieau	Right	1.180	0.510			1.690	Yes
	Touch	1.180		0.478		1.658	Yes
	Right Tilt	0.532	0.403			0.935	No
		0.532		0.490		1.022	No
	Rear	0.984	0.586		N/A	1.570	No
Body-worn Accessory	Real	0.984		0.323	0.080	1.387	No
& Hotspot	Front	0.738	0.276		N/A	1.014	No
	FIOIIL	0.738		0.404	0.031	1.173	No
	Edge 1	0	0.285			0.285	No
	Luge	0		0.196		0.196	No
	Edge 2	0.467	0.117			0.584	No
Hotspot	Luge 2	0.467		0		0.467	No
Ποιδροι	Edge 3	0.797	0			0.797	No
	⊏uge 3	0.797		0		0.797	No
	Edge 4	0.110	0.278			0.388	No
	Luge 4	0.110		0.344		0.454	No

SAR to Peak Location Separation Ratio (SPLSR)

RF Exposure Test conditions Position	Toct	Wors	Worst-case combination		Σ1α SAD	Calculated	SPLSR	Volume	
		CDMA BC1	Wi-Fi DTS Band	Wi-Fi UNII Band	∑ 1-g SAR (mW/g)	distance (mm)	(≤ 0.04)	Scan (Yes/ No)	Figure
Head Right Touch	1.180	0.510		1.690	85.4	0.026	No	1	
Tieau	Right Toden	1.180		0.478	1.658	76.1	0.028	No	2

Conclusion:

Figure (1)



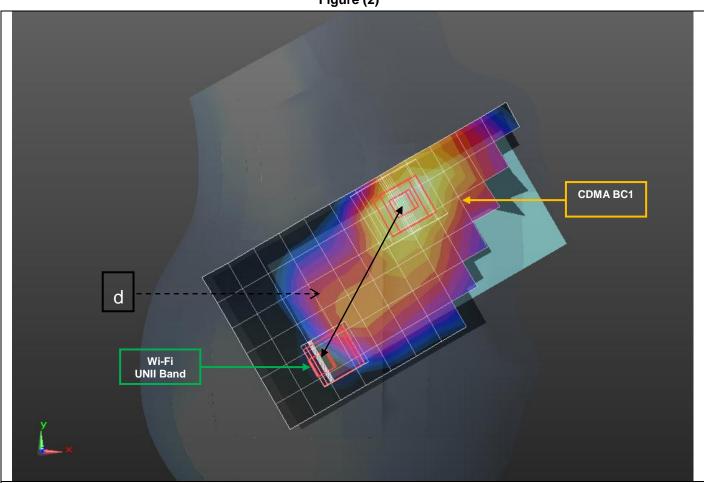
Mode	Peak SAR	X	Υ	Z
Wiode	mW/g	m	m	m
CDMA BC1	1.76	0.059	-0.252	-0.176
Wi-Fi DTS Band	1	0.0292	-0.332	-0.175

d: Calculated distance (mm)

85.4

The Peak Location Separation Distance is computed by using the formula below: 3QRT((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)

Figure (2)



Mode	Peak SAR	X	Υ	Z
Mode	mW/g	m	m	m
CDMA BC1	1.76	0.059	-0.252	-0.176
Wi-Fi UNII Band	5.25	0.0344	-0.324	-0.175

d: Calculated distance (mm)
76.1

The Peak Location Separation Distance is computed by using the formula below: $3QRT((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)$

13.15. Sum of the SAR for CDMA BC10 (UAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test		Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	CDMA BC10	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.645	0.313			0.958	No
	Touch	0.645		0.219		0.864	No
	Left	0.519	0.344			0.863	No
Head	Tilt	0.519		0.189		0.708	No
Head	Right	0.582	0.510			1.092	No
	Touch	0.582		0.478		1.060	No
	Right	0.396	0.403			0.799	No
	Tilt	0.396		0.490		0.886	No
	Rear	0.323	0.586		N/A	0.909	No
Body-worn Accessory	rtear	0.323		0.323	0.080	0.726	No
& Hotspot	Front	0.345	0.276		N/A	0.621	No
,	TIOIL	0.345		0.404	0.031	0.780	No
	Edge 1	0.139	0.285			0.424	No
	Luge	0.139		0.196		0.335	No
	Edge 2	0.520	0.117			0.637	No
Hotspot	Luge 2	0.520		0		0.520	No
Ποιδροί	Edge 3	0	0			0	No
	Luge 3	0		0		0	No
	Edge 4	0.174	0.278			0.452	No
		0.174		0.344		0.518	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.16. Sum of the SAR for CDMA BC10 (LAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test		Simultaneous Trar	nsmission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	CDMA BC10	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.395	0.313			0.708	No
	Touch	0.395		0.219		0.614	No
	Left	0.182	0.344			0.526	No
Head	Tilt	0.182		0.189		0.371	No
Head	Right	0.330	0.510			0.840	No
	Touch	0.330		0.478		0.808	No
	Right Tilt	0.193	0.403			0.596	No
		0.193		0.490		0.683	No
	Rear	0.547	0.586		N/A	1.133	No
Body-worn Accessory	Real	0.547		0.323	0.080	0.950	No
& Hotspot	Front	0.616	0.276		N/A	0.892	No
	FIOR	0.616		0.404	0.031	1.051	No
	Edge 1	0	0.285			0.285	No
	Luge	0		0.196		0.196	No
	Edge 2	0.308	0.117			0.425	No
Hotspot	Luge 2	0.308		0		0.308	No
Ποιδροι	Edge 3	0.374	0			0.374	No
	Luge 3	0.374		0		0.374	No
	Edgo 4	0.657	0.278			0.935	No
	Edge 4	0.657		0.344		1.001	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.17. Sum of the SAR for CDMA BC15 (UAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test		Simultaneous Trar	smission Scenari	0	∑1-g SAR	SPLSR
conditions	Position	CDMA BC15	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.350	0.313			0.663	No
	Touch	0.350		0.219		0.569	No
	Left	0.393	0.344			0.737	No
Head	Tilt	0.393		0.189		0.582	No
rieau	Right	0.884	0.510			1.394	No
	Touch	0.884		0.478		1.362	No
	Right	0.596	0.403			0.999	No
	Tilt	0.596		0.490		1.086	No
5 .	Rear	0.969	0.586		N/A	1.555	No
Body-worn Accessory	Roar	0.969		0.323	0.080	1.372	No
& Hotspot	Front	0.997	0.276		N/A	1.273	No
,	TIOIIL	0.997		0.404	0.031	1.432	No
	Edge 1	0.983	0.285			1.268	No
	Lage	0.983		0.196		1.179	No
	Edge 2	0.025	0.117			0.142	No
Hotspot	Luge 2	0.025		0		0.025	No
Ποιδροί	Edge 3	0	0			0	No
		0		0		0	No
1	Edge 4	0.564	0.278			0.842	No
		0.564		0.344		0.908	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.18. Sum of the SAR for CDMA BC15 (LAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test		Simultaneous Trar	smission Scenari	0	∑1-g SAR	SPLSR
conditions	Position	CDMA BC15	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.341	0.313			0.654	No
	Touch	0.341		0.219		0.560	No
	Left	0.343	0.344			0.687	No
Head	Tilt	0.343		0.189		0.532	No
rieau	Right	0.930	0.510			1.440	No
	Touch	0.930		0.478		1.408	No
	Right	0.372	0.403			0.775	No
	Tilt	0.372		0.490		0.862	No
5 -	Rear	0.917	0.586		N/A	1.503	No
Body-worn Accessory	Roar	0.917		0.323	0.080	1.320	No
& Hotspot	Front	0.921	0.276		N/A	1.197	No
,		0.921		0.404	0.031	1.356	No
	Edge 1	0	0.285			0.285	No
	Luge	0		0.196		0.196	No
	Edge 2	0.465	0.117			0.582	No
Hotspot	Luge 2	0.465		0		0.465	No
Ποιδροί	Edge 3	1.020	0			1.020	No
		1.020		0		1.020	No
[Edge 4	0.049	0.278			0.327	No
		0.049		0.344		0.393	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.19. Sum of the SAR for LTE Band 2 (UAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test		Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	LTE Band 2	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.369	0.313			0.682	No
	Touch	0.369		0.219		0.588	No
	Left	0.357	0.344			0.701	No
Head	Tilt	0.357		0.189		0.546	No
rieau	Right	0.969	0.510			1.479	No
	Touch	0.969		0.478		1.447	No
	Right Tilt	0.745	0.403			1.148	No
		0.745		0.490		1.235	No
5 -	Rear	0.973	0.586		N/A	1.559	No
Body-worn Accessory	rtear	0.973		0.323	0.080	1.376	No
& Hotspot	Front	0.891	0.276		N/A	1.167	No
		0.891		0.404	0.031	1.326	No
	Edge 1	0.976	0.285			1.261	No
	Luge	0.976		0.196		1.172	No
	Edge 2	0.073	0.117			0.190	No
Hotspot	Luge 2	0.073		0		0.073	No
Ποιδροί	Edge 3	0	0			0	No
		0		0		0	No
[Edge 4	0.622	0.278			0.900	No
		0.622		0.344		0.966	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.20. Sum of the SAR for LTE Band 2 (LAT) + Wi-Fi DTS & UNII Band & BT

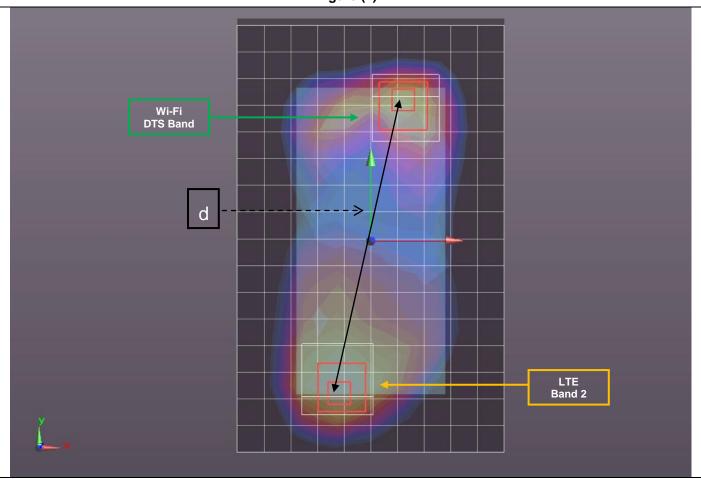
DE Evnocuro	Test	;	Simultaneous Trar	smission Scenari	0	∑1-g SAR	SPLSR
RF Exposure conditions	Position	LTE Band 2	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.618	0.313			0.931	No
	Touch	0.618		0.219		0.837	No
	Left	0.550	0.344			0.894	No
Head	Tilt	0.550		0.189		0.739	No
Heau	Right	0.975	0.510			1.485	No
	Touch	0.975		0.478		1.453	No
	Right Tilt	0.549	0.403			0.952	No
		0.549		0.490		1.039	No
	Rear	1.140	0.586		N/A	1.726	Yes
Body-worn Accessory	rtear	1.140		0.323	0.080	1.543	No
& Hotspot	Front	0.877	0.276		N/A	1.153	No
		0.877		0.404	0.031	1.312	No
	Edge 1	0	0.285			0.285	No
	Lage	0		0.196		0.196	No
	Edge 2	0.369	0.117			0.486	No
Hotspot	Luge 2	0.369		0		0.369	No
Ποιοροι	Edge 3	0.659	0			0.659	No
		0.659		0		0.659	No
	Edge 4	0.102	0.278			0.380	No
	Luge 4	0.102		0.344		0.446	No

SAR to Peak Location Separation Ratio (SPLSR)

RF Exposure conditions	Test Position	Wors	Worst-case combination			Calculated	SPLSR	Volume	
		LTE Band 2	Wi-Fi DTS Band	Wi-Fi UNII Band	∑ 1-g SAR (mW/g)	distance (mm)	(≤ 0.04)	Scan (Yes/ No)	Figure
Body-worn Accessory & Hotspot	Rear	1.140	0.586		1.726	134.8	0.017	No	1

Conclusion:





Mode	Peak SAR	X	Υ	Z
Wiode	mW/g	m	m	m
LTE Band 2	2.37	-0.015	-0.0684	-0.183
Wi-Fi DTS Band	1.48	0.0156	0.0628	-0.186

d: Calculated distance (mm)
134.8

The Peak Location Separation Distance is computed by using the formula below: 3QRT((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)

13.21. Sum of the SAR for LTE Band 4 (UAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test	5	Simultaneous Trar	nsmission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	LTE Band 4	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.325	0.313			0.638	No
	Touch	0.325		0.219		0.544	No
	Left	0.375	0.344			0.719	No
Head	Tilt	0.375		0.189		0.564	No
Head	Right	0.998	0.510			1.508	No
	Touch	0.998		0.478		1.476	No
	Right Tilt	0.684	0.403			1.087	No
		0.684		0.490		1.174	No
	Rear	0.995	0.586		N/A	1.581	No
Body-worn Accessory	Real	0.995		0.323	0.080	1.398	No
& Hotspot	Front	0.984	0.276		N/A	1.260	No
		0.984		0.404	0.031	1.419	No
	Edge 1	0.979	0.285			1.264	No
	Luge	0.979		0.196		1.175	No
	Edge 2	0.033	0.117			0.150	No
Hotspot	Luge 2	0.033		0		0.033	No
Ποιδροι	Edge 3	0	0			0	No
	Luge 3	0		0		0	No
	Edge 4	0.667	0.278			0.945	No
	Luye 4	0.667		0.344		1.011	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.22. Sum of the SAR for LTE Band 4 (LAT) + Wi-Fi DTS & UNII Band & BT

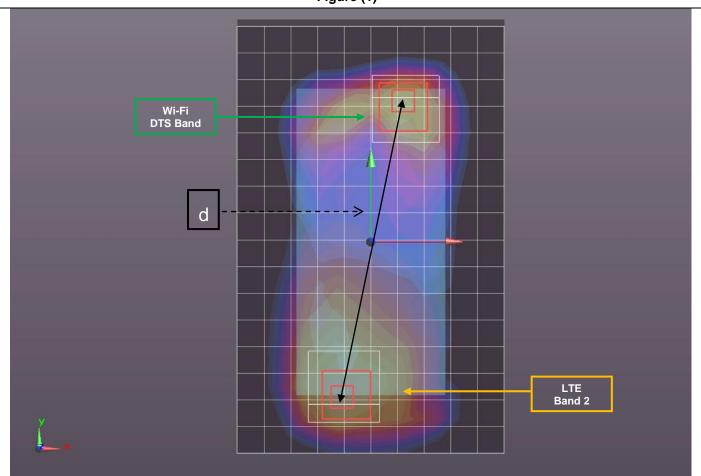
RF Exposure conditions	Test		Simultaneous Trar	Σ1α S Δ D	SPLSR		
	Position	LTE Band 4	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	∑ 1-g SAR (mW/g)	(Yes/ No)
	Left Touch	0.252	0.313			0.565	No
		0.252		0.219		0.471	No
	Left Tilt	0.220	0.344			0.564	No
Head		0.220		0.189		0.409	No
Head	Right Touch	0.645	0.510			1.155	No
		0.645		0.478		1.123	No
	Right Tilt	0.194	0.403			0.597	No
		0.194		0.490		0.684	No
	Rear	1.100	0.586		N/A	1.686	Yes
Body-worn Accessory		1.100		0.323	0.080	1.503	No
& Hotspot	Front	0.829	0.276		N/A	1.105	No
		0.829		0.404	0.031	1.264	No
	Edge 1	0	0.285			0.285	No
		0		0.196		0.196	No
	Edge 2	0.423	0.117			0.540	No
Hotspot -		0.423		0		0.423	No
	Edge 3	0.895	0			0.895	No
	Luge 3	0.895		0		0.895	No
	Edge 4	0.045	0.278			0.323	No
	Edge 4	0.045		0.344		0.389	No

SAR to Peak Location Separation Ratio (SPLSR)

RF Exposure conditions	Test - Position	Wors	Worst-case combination			Calculated	SPLSR	Volume	
		LTE Band 4	Wi-Fi DTS Band	Wi-Fi UNII Band	∑ 1-g SAR (mW/g)	distance (mm)	(≤ 0.04)	Scan (Yes/ No)	Figure
Body-worn Accessory & Hotspot	Rear	1.100	0.586		1.686	135.8	0.016	No	1

Conclusion:





Mode	Peak SAR	X	Υ	Z
Wiode	mW/g	m	m	m
LTE Band 4	2.18	-0.0136	-0.0698	-0.184
Wi-Fi DTS Band	1.48	0.0156	0.0628	-0.186

d: Calculated distance (mm)

135.8

The Peak Location Separation Distance is computed by using the formula below: 5QRT((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)

13.23. Sum of the SAR for LTE Band 5 (UAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure conditions	Test		Simultaneous Trar	∑ 1-g SAR	SPLSR		
	Position	LTE Band 5	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left Touch	0.592	0.313			0.905	No
		0.592		0.219		0.811	No
	Left	0.485	0.344			0.829	No
Head	Tilt	0.485		0.189		0.674	No
Head	Right Touch	0.612	0.510			1.122	No
		0.612		0.478		1.090	No
	Right Tilt	0.326	0.403			0.729	No
		0.326		0.490		0.816	No
	Rear	0.243	0.586		N/A	0.829	No
Body-worn Accessory	rteal	0.243		0.323	0.080	0.646	No
& Hotspot	Front	0.236	0.276		N/A	0.512	No
,		0.236		0.404	0.031	0.671	No
	Edge 1	0.134	0.285			0.419	No
		0.134		0.196		0.330	No
Hotspot	Edge 2	0.342	0.117			0.459	No
	Luge 2	0.342		0		0.342	No
	Edge 3	0	0			0	No
	Luge 5	0		0		0	No
	Edge 4	0.219	0.278			0.497	No
	Lage 4	0.219		0.344		0.563	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.24. Sum of the SAR for LTE Band 5 (LAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure conditions	Test		Simultaneous Trar	∑ 1-g SAR	SPLSR		
	Position	LTE Band 5	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left Touch	0.288	0.313			0.601	No
		0.288		0.219		0.507	No
	Left Tilt	0.150	0.344			0.494	No
Head		0.150		0.189		0.339	No
ricad	Right Touch	0.230	0.510			0.740	No
		0.230		0.478		0.708	No
	Right Tilt	0.163	0.403			0.566	No
		0.163		0.490		0.653	No
	Rear	0.372	0.586		N/A	0.958	No
Body-worn Accessory		0.372		0.323	0.080	0.775	No
& Hotspot	Front	0.437	0.276		N/A	0.713	No
		0.437		0.404	0.031	0.872	No
	Edge 1	0	0.285			0.285	No
		0		0.196		0.196	No
	Edge 2	0.249	0.117			0.366	No
Hotspot		0.249		0		0.249	No
	Edge 3	0.258	0			0.258	No
	Luge 3	0.258		0		0.258	No
	Edge 4	0.638	0.278			0.916	No
	Luge 4	0.638		0.344		0.982	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.25. Sum of the SAR for LTE Band 13 (UAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test		Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	LTE Band 13	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.543	0.313			0.856	No
	Touch	0.543		0.219		0.762	No
	Left	0.407	0.344			0.751	No
Head	Tilt	0.407		0.189		0.596	No
rieau	Right	0.482	0.510			0.992	No
	Touch	0.482		0.478		0.960	No
	Right	0.378	0.403			0.781	No
	Tilt	0.378		0.490		0.868	No
5 -	Rear	0.251	0.586		N/A	0.837	No
Body-worn Accessory		0.251		0.323	0.080	0.654	No
& Hotspot	Front	0.252	0.276		N/A	0.528	No
,	TIOIL	0.252		0.404	0.031	0.687	No
	Edge 1	0.170	0.285			0.455	No
	Luge	0.170		0.196		0.366	No
	Edge 2	0.384	0.117			0.501	No
Hotenot	Luge 2	0.384		0		0.384	No
Hotspot -	Edge 3	0	0			0	No
	Luye 3	0		0		0	No
[Edge 4	0.253	0.278			0.531	No
	Luge 4	0.253		0.344		0.597	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.26. Sum of the SAR for LTE Band 13 (LAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test		Simultaneous Trar	nsmission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	LTE Band 13	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.360	0.313			0.673	No
	Touch	0.360		0.219		0.579	No
	Left	0.211	0.344			0.555	No
Head	Tilt	0.211		0.189		0.400	No
Head	Right	0.291	0.510			0.801	No
	Touch	0.291		0.478		0.769	No
	Right	0.200	0.403			0.603	No
	Tilt	0.200		0.490		0.690	No
	Rear	0.525	0.586		N/A	1.111	No
Body-worn Accessory		0.525		0.323	0.080	0.928	No
& Hotspot	Front	0.528	0.276		N/A	0.804	No
	FIOIIL	0.528		0.404	0.031	0.963	No
	Edge 1	0	0.285			0.285	No
	Luge	0		0.196		0.196	No
	Edge 2	0.388	0.117			0.505	No
Hotenot	Luge 2	0.388		0		0.388	No
Hotspot	Edge 3	0.386	0			0.386	No
	Luge 3	0.386		0		0.386	No
	Edgo 4	0.696	0.278			0.974	No
	Edge 4	0.696		0.344		1.040	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.27. Sum of the SAR for LTE Band 17 (UAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test Position		Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions		LTE Band 17	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.394	0.313			0.707	No
	Touch	0.394		0.219		0.613	No
	Left	0.251	0.344			0.595	No
Head	Tilt	0.251		0.189		0.440	No
Heau	Right	0.471	0.510			0.981	No
	Touch	0.471		0.478		0.949	No
	Right	0.473	0.403			0.876	No
	Tilt	0.473		0.490		0.963	No
	Rear	0.205	0.586		N/A	0.791	No
Body-worn Accessory		0.205		0.323	0.080	0.608	No
& Hotspot	Front	0.254	0.276		N/A	0.530	No
,	TIOIL	0.254		0.404	0.031	0.689	No
	Edge 1	0.075	0.285			0.360	No
	Luge	0.075		0.196		0.271	No
	Edge 2	0.272	0.117			0.389	No
Hotenot	Luge 2	0.272		0		0.272	No
Hotspot	Edge 3	0	0			0	No
	Luge 3	0		0		0	No
	Edge 4	0.234	0.278			0.512	No
		0.234		0.344		0.578	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.28. Sum of the SAR for LTE Band 17 (LAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test Position		Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions		LTE Band 17	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.198	0.313			0.511	No
	Touch	0.198		0.219		0.417	No
	Left	0.109	0.344			0.453	No
Head	Tilt	0.109		0.189		0.298	No
Head	Right	0.175	0.510			0.685	No
	Touch	0.175		0.478		0.653	No
	Right	0.128	0.403			0.531	No
	Tilt	0.128		0.490		0.618	No
	Rear	0.347	0.586		N/A	0.933	No
Body-worn Accessory		0.347		0.323	0.080	0.750	No
& Hotspot	Front	0.368	0.276		N/A	0.644	No
	FIOR	0.368		0.404	0.031	0.803	No
	Edge 1	0	0.285			0.285	No
	Luge	0		0.196		0.196	No
	Edge 2	0.249	0.117			0.366	No
Hotepot	Luge 2	0.249		0		0.249	No
Hotspot	Edge 3	0.257	0			0.257	No
	Luge 3	0.257		0		0.257	No
	Edgo 4	0.516	0.278			0.794	No
	Edge 4	0.516		0.344		0.860	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.29. Sum of the SAR for LTE Band 25 (UAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test Position		Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions		LTE Band 25	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.392	0.313			0.705	No
	Touch	0.392		0.219		0.611	No
	Left	0.367	0.344			0.711	No
Head	Tilt	0.367		0.189		0.556	No
Heau	Right	0.970	0.510			1.480	No
	Touch	0.970		0.478		1.448	No
	Right	0.747	0.403			1.150	No
	Tilt	0.747		0.490		1.237	No
	Rear	0.973	0.586		N/A	1.559	No
Body-worn Accessory		0.973		0.323	0.080	1.376	No
& Hotspot	Front	0.971	0.276		N/A	1.247	No
,	TIOII	0.971		0.404	0.031	1.406	No
	Edge 1	0.952	0.285			1.237	No
	Lage	0.952		0.196		1.148	No
	Edge 2	0.061	0.117			0.178	No
Hotenot	Luge 2	0.061		0		0.061	No
Hotspot	Edge 3	0	0			0	No
	Luge 3	0		0		0	No
	Edge 4	0.482	0.278			0.760	No
		0.482		0.344		0.826	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.30. Sum of the SAR for LTE Band 25 (LAT) + Wi-Fi DTS & UNII Band & BT

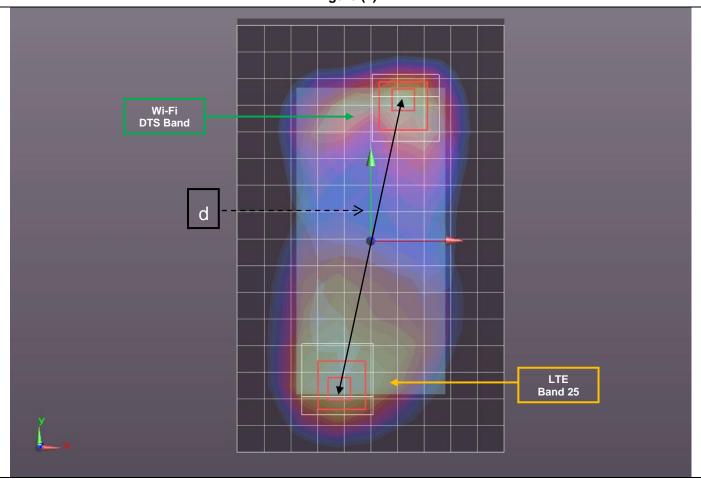
RF Exposure	Test		Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	LTE Band 25	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.627	0.313			0.940	No
	Touch	0.627		0.219		0.846	No
	Left	0.509	0.344			0.853	No
Head	Tilt	0.509		0.189		0.698	No
Heau	Right	0.967	0.510			1.477	No
	Touch	0.967		0.478		1.445	No
	Right	0.487	0.403			0.890	No
	Tilt	0.487		0.490		0.977	No
	Rear	1.080	0.586		N/A	1.666	Yes
Body-worn Accessory		1.080		0.323	0.080	1.483	No
& Hotspot	Front	0.874	0.276		N/A	1.150	No
,	TIOII	0.874		0.404	0.031	1.309	No
	Edge 1	0	0.285			0.285	No
	Lage	0		0.196		0.196	No
	Edge 2	0.432	0.117			0.549	No
Hotenot	Luge 2	0.432		0		0.432	No
Hotspot	Edge 3	0.757	0			0.757	No
	Luge 3	0.757		0		0.757	No
	Edge 4	0.103	0.278			0.381	No
	Luge 4	0.103		0.344		0.447	No

SAR to Peak Location Separation Ratio (SPLSR)

RF Exposure Test conditions Position	Toct	Worst-case combination			∑ 1-g SAR	Calculated	SPLSR	Volume	
	LTE Band 25	Wi-Fi DTS Band	Wi-Fi UNII Band	(mW/g)	distance (mm)	(≤ 0.04)	Scan (Yes/ No)	Figure	
Body-worn Accessory & Hotspot	Rear	1.080	0.586		1.666	133.2	0.016	No	1

Conclusion:





Mode	Peak SAR	X	Υ	Z
Wiode	mW/g	m	m	m
LTE Band 25	2.2	-0.015	-0.0668	-0.183
Wi-Fi DTS Band	1.48	0.0156	0.0628	-0.186

d: Calculated distance (mm)

The Peak Location Separation Distance is computed by using the formula below: 3QRT((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)

13.31. Sum of the SAR for LTE Band 26 (UAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test		Simultaneous Trar	smission Scenari	0	∑1-g SAR	SPLSR
conditions	Position	LTE Band 26	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.421	0.313			0.734	No
	Touch	0.421		0.219		0.640	No
	Left	0.318	0.344			0.662	No
Head	Tilt	0.318		0.189		0.507	No
rieau	Right	0.464	0.510			0.974	No
	Touch	0.464		0.478		0.942	No
	Right	0.264	0.403			0.667	No
	Tilt	0.264		0.490		0.754	No
5 -	Rear	0.179	0.586		N/A	0.765	No
Body-worn Accessory		0.179		0.323	0.080	0.582	No
& Hotspot	Front	0.201	0.276		N/A	0.477	No
,	TIOIL	0.201		0.404	0.031	0.636	No
	Edge 1	0.095	0.285			0.380	No
	Luge	0.095		0.196		0.291	No
	Edge 2	0.294	0.117			0.411	No
Hotenot	Luge 2	0.294		0		0.294	No
Hotspot	Edge 3	0	0			0	No
	Luye 3	0		0		0	No
[Edge 4	0.202	0.278			0.480	No
		0.202		0.344		0.546	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.32. Sum of the SAR for LTE Band 26 (LAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test	\$	Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	LTE Band 26	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.159	0.313			0.472	No
	Touch	0.159		0.219		0.378	No
	Left	0.101	0.344			0.445	No
Head	Tilt	0.101		0.189		0.290	No
Head	Right	0.134	0.510			0.644	No
	Touch	0.134		0.478		0.612	No
	Right	0.102	0.403			0.505	No
	Tilt	0.102		0.490		0.592	No
	Rear	0.227	0.586		N/A	0.813	No
Body-worn Accessory		0.227		0.323	0.080	0.630	No
& Hotspot	Front	0.210	0.276		N/A	0.486	No
	FIOR	0.210		0.404	0.031	0.645	No
	Edge 1	0	0.285			0.285	No
	Lage	0		0.196		0.196	No
	Edge 2	0.170	0.117			0.287	No
Hotenot	Luye 2	0.170		0		0.170	No
Hotspot -	Edge 3	0.121	0			0.121	No
		0.121		0		0.121	No
	Edge 4	0.466	0.278			0.744	No
	Luye 4	0.466		0.344		0.810	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.33. Sum of the SAR for LTE Band 41 (UAT) + Wi-Fi DTS & UNII Band & BT

RF Exposure	Test Position		Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions		LTE Band 41	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.316	0.313			0.629	No
	Touch	0.316		0.219		0.535	No
	Left	0.372	0.344			0.716	No
Head	Tilt	0.372		0.189		0.561	No
Head	Right	0.712	0.510			1.222	No
	Touch	0.712		0.478		1.190	No
	Right	0.443	0.403			0.846	No
	Tilt	0.443		0.490		0.933	No
	Rear	0.979	0.586		N/A	1.565	No
Body-worn Accessory		0.979		0.323	0.080	1.382	No
& Hotspot	Front	0.561	0.276		N/A	0.837	No
	FIOR	0.561		0.404	0.031	0.996	No
	Edge 1	0.265	0.285			0.550	No
	Luge	0.265		0.196		0.461	No
	Edge 2	0.136	0.117			0.253	No
Hotenot	Euge 2	0.136		0		0.136	No
Hotspot -	Edge 3	0	0			0	No
	Luge 3	0		0		0	No
	Edge 4	0.265	0.278			0.543	No
		0.265		0.344		0.609	No

SAR to Peak Location Separation Ratio (SPLSR)

As the Sum of the SAR is not greater than 1.6 W/kg SPLSR assessment is not required.

Conclusion:

13.34. Sum of the SAR for LTE Band 41 (LAT) + Wi-Fi DTS & UNII Band & BT

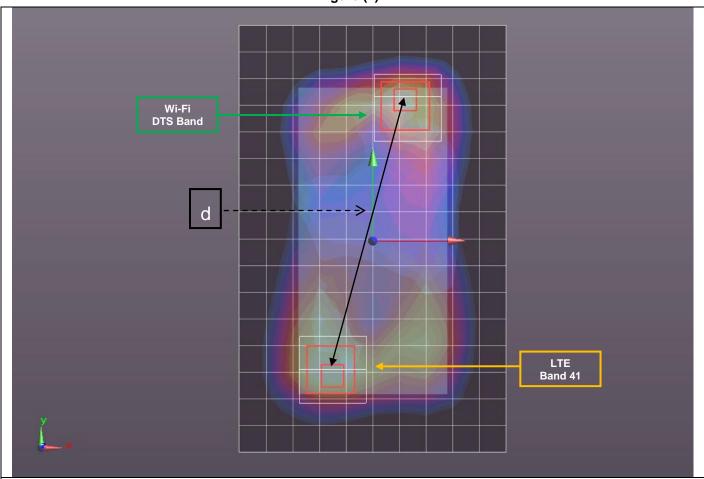
RF Exposure	Test	\$	Simultaneous Trar	smission Scenari	0	∑ 1-g SAR	SPLSR
conditions	Position	LTE Band 41	Wi-Fi DTS Band	Wi-Fi UNII Band	Bluetooth	(mW/g)	(Yes/ No)
	Left	0.265	0.313			0.578	No
	Touch	0.265		0.219		0.484	No
	Left	0.090	0.344			0.434	No
Head	Tilt	0.090		0.189		0.279	No
rieau	Right	0.501	0.510			1.011	No
	Touch	0.501		0.478		0.979	No
	Right	0.183	0.403			0.586	No
	Tilt	0.183		0.490		0.673	No
	Rear	1.180	0.586		N/A	1.766	Yes
Body-worn Accessory		1.180		0.323	0.080	1.583	No
& Hotspot	Front	0.361	0.276		N/A	0.637	No
	FIOR	0.361		0.404	0.031	0.796	No
	Edge 1	0	0.285			0.285	No
	Luge	0		0.196		0.196	No
	Edge 2	0.328	0.117			0.445	No
Hotepot	Luge 2	0.328		0		0.328	No
Hotspot	Edge 3	0.509	0			0.509	No
	Luge 3	0.509		0		0.509	No
	Edge 4	0.269	0.278			0.547	No
	Luye 4	0.269		0.344		0.613	No

SAR to Peak Location Separation Ratio (SPLSR)

RF Exposure conditions	Test Position	Worst-case combination			∑ 1-g SAR	Calculated	SPLSR	Volume	
		LTE Band 41	Wi-Fi DTS Band	Wi-Fi UNII Band	(mW/g)	distance (mm)	(≤ 0.04)	Scan (Yes/ No)	Figure
Body-worn Accessory & Hotspot	Rear	1.180	0.586		1.766	127.2	0.018	No	1

Conclusion:





Mode	Peak SAR	X	Υ	Z	
Wiode	mW/g	m	m	m	
LTE Band 41	3.52	-0.018	-0.0598	-0.182	
Wi-Fi DTS Band	1.48	0.0156	0.0628	-0.186	

d: Calculated distance (mm)
127.2

The Peak Location Separation Distance is computed by using the formula below: 3QRT((X1-X2)^2+(Y1-Y2)^2+(Z1-Z2)^2)

14. Appendixes

Refer to separated files for the following appendixes.

- 14.1. Photos
- 14.2. System Performance Check Plots
- 14.3. Highest SAR Test Plots
- 14.4. Calibration Certificate for E-Field Probe EX3DV4 SN 3885
- 14.5. Calibration Certificate for E-Field Probe EX3DV4 SN 3751
- 14.6. Calibration Certificate for E-Field Probe EX3DV4 SN 3749
- 14.7. Calibration Certificate for E-Field Probe EX3DV4 SN 3901
- 14.8. Calibration Certificate for E-Field Probe EX3DV4 SN 3772
- 14.9. Calibration Certificate for E-Field Probe EX3DV4 SN 3686
- 14.10. Calibration Certificate for E-Field Probe EX3DV4 SN 3989
- 14.11. Calibration Certificate for E-Field Probe EX3DV4 SN 3990
- 14.12. Calibration Certificate for D750V3 SN 1024
- 14.13. Calibration Certificate for D835V2 SN 4d142
- 14.14. Calibration Certificate for D1750V2- SN 1050
- 14.15. Calibration Certificate for D1750V2- SN 1053
- 14.16. Calibration Certificate for D1900V2- SN 5d140
- 14.17. Calibration Certificate for D1900V2- SN 5d163
- 14.18. Calibration Certificate for D2450V2 SN 748
- 14.19. Calibration Certificate for D2450V2 SN 706
- 14.20. Calibration Certificate for D2600V2 SN 1036
- 14.21. Calibration Certificate for D5GHzV2 SN 1003
- 14.22. Calibration Certificate for D5GHzV2 SN 1168
- 14.23. Tissue Material Ingredients

END OF REPORT